

Linear recessed and surface lighting



Innovative specification grade fixtures utilizing today's most energy efficient light sources.

Philips Lightolier has a rich heritage of providing innovative, high quality recessed and surface lighting solutions for commercial, industrial and institutional markets. The line encompasses a diverse range of products, each designed to answer a specific lighting need. From the most comprehensive recessed soft lighting coffer styled direct/indirect luminaires in the industry to innovative medical patient room lighting and parabolics designed for illuminating computer screens properly, Philips Lightolier features

only energy-efficient products that provide effective, glare-free illumination to achieve the highest quality visual environment possible. Philips Lightolier works constantly to develop innovative new products and ensure that each new luminaire meets the most demanding specifications. Carefully designed around the light source, Philips Lightolier recessed and surface products ensure you the best luminaire for the task at hand. Highlighted here are just some of the products that showcase our design abilities.

Contents

Recessed soft lighting	>	4.2
Recessed & wall washing	>	4.90
Medical luminaires	>	4.135
Architectural & surface utility	>	4.146
Task lighting	>	4.167
Special purpose & industrial	>	4.172
General utility	>	4.202

Recessed soft lighting

Gain a broader perspective with Soft Lights. Soft Lights encompasses a full range of luminaires, including decorative round, low-glare, recessed, non-directional recessed, solutions for shallow plenums, and more. Every Soft Lights luminaire enhances the quality of the visual environment by embracing the principles of quality visual concepts.





Contents

LED recessed luminaires >	4.4	Alter family >	4.38
HP90 family >	4.8	Alter concept >	4.64
Paraplius II >	4.20	Coffaire family >	4.74
Opalescent family >	4.24	DL Day lighting system >	4.88
Skyway family >	4.30		
Aletta >	4.36		



Recessed 2' x 2' LED luminaires

Providing illumination virtually indistinguishable from traditional technologies while consuming less energy.

The Philips Lightolier LED recessed luminaire, designed specifically around the led light source, sets a new standard for lighting efficiency, performance and sustainability. With our versatile offering of both contemporary and classical shielding appearances, lighting designers and architects have the ability to utilize a LED light source in any environment. Our LED product families, provide an ideal energy saving fixture for all 2' x 2' recessed T-bar grid and drywall applications.



Construction

- Field replaceable LED array accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment. Designed to keep LEDs below specified maximum temperatures in typical commercial installations.
- Depth = 5"

Electrical system

- Integral, high efficiency driver and power supply.
- Nominal power factor = 0.9.
- Input voltage = 120V-277V, 50/60Hz



LED Facts

LEDs have no breakable glass, their solid-state design renders them impervious to shock, vibration, frequent switching and environmental extremes. With an average lifespan of more than 50,000 hours, these maintenance-free LED luminaires eliminate repeated relamping, and operate in ambient room temperatures of -22°F to +104°F [-30°C to +40°C].

- LEDs contain no toxic materials, hazardous mercury, or halogen gases.
- LEDs emit no ultraviolet (UV) rays or infrared (IR) radiation.
- LEDs do not require a material safety data sheet (MSDS) or hazardous waste disposal.
- LEDs do not produce electro-magnetic interference.

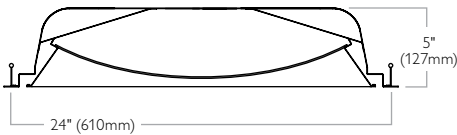
Opalescent LED 2' x 2'

Direct recessed air handling or static luminaires

Opalescent 2x2 LED's deep curved lens combined with a regressed frame opening that appears as a cove or skylight. The opal lens subtly highlights the ceiling plenum while shielding the LED's from direct view. Opalescent blends with any architectural environment and creates balanced brightness, illuminating both vertical and horizontal surfaces.



OPS22GPW38A40ULAG



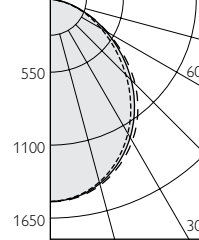
Reference data

Delivered lumens	3619
Efficiency lm/w	80.6

LED Driver

Input watts (120V)	44.9W
--------------------	-------

Candlepower Curve



Ordering information

Type	Size	Delivered lumens	Input watts	Lumens per watt	Avg 8'x10' initial footcandles*	8'x10' Watts per sq. foot	Catalog no.
Static	2' x 2'	2553	30.4	84.0	34	0.38	OPS22GPW25A40ULAG
		3167	38.4	82.5	42	0.40	OPS22GPW33A40ULAG
		3619	44.9	80.6	48	0.56	OPS22GPW38A40ULAG
		4140	52.8	78.4	55	0.66	OPS22GPW42A40ULAG

For Air handling housing models substitute OPS22 for OPA22.

* 42 Recessed LED Luminaires in a 60' x 56' x 9' room with a reflectance of 80/50/20, placed 8' x 10' on center. Footcandle readings are taken 2 1/2' from floor level.

Example	OPS22G	PW		40	U	LAG	
	Opalescent LED	Lens shielding	Lumen¹	Color temp^{1,2}	Voltage	Driver²	Options
	Direct	PW = High light transmission frost	25A = 25k lm	40 = 4000K	UNV = 120-277V	LAG = LED Driver	See page 4.5
	Recessed	white acrylic lens.	33A = 33k lm				
			38A = 38k lm				
			42A = 42k lm				

1. Approximate delivered values (Consult IES file).

2. Consult representative for other color temperature options and driver dimming options.

Features

- Bold but simple 2 1/2" regressed frame with contoured lens.
- High light transmission frost white acrylic lens.
- Can provide 48 initial footcandles at 0.56 watts per square foot.
- Delivers 3619 lumens with just 44.9 input watts.
- Field replaceable LED array and drivers accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment.
- Factory calibrated intelligent driver capable of providing various lumen outputs to balance energy savings with lighting application needs.
- High efficiency LEDs have 50,000 hour rated life at L70.
- Predicted L70 lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- True mitered corner lens frame.
- Door jamb finished black on four sides for positive light stop.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- 5" deep body.
- Black body to dissipate heat from LEDs.
- Earthquake/Hold-down clips.
- Hemmed over side rails for maximum safety.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.
- Not for continuous row mounting.
- Five-year warranty on luminaire, LED boards and driver.

Options & accessories

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.



Skyway LED 2' x 2'

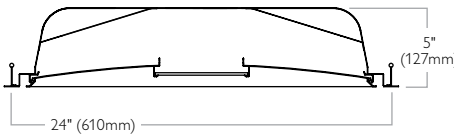
Direct recessed air handling or static luminaires

Skyway 2x2 LED's modern triple lens design features a clear conical prismatic center lens complemented by frosted white acrylic side lenses. Alternating lens textures creates visual interest while shielding the LEDs from direct view and preventing pixilation. The soft, balanced, uniform brightness of Skyway make it ideal for office, institution and healthcare applications.

Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Can provide 45 initial footcandles at 0.56 watts per square foot.
- Delivers 3366 lumens with just 44.9 input watts.
- Field replaceable LED array and drivers accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment.
- Factory calibrated intelligent driver capable of providing various lumen outputs to balance energy savings with lighting application needs.
- High efficiency LEDs have 50,000 hour rated life at L70.
- Predicted L70 lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Black body to dissipate heat from LEDs.
- 5" deep body.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Earthquake/Hold-down clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.
- Not for continuous row mounting.
- Five-year warranty on luminaire, LED boards and driver.

SKS22GPK33A40ULAG



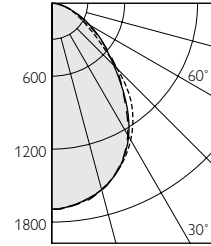
Reference data

Delivered lumens	3366
Efficiency lm/w	75.0

LED Driver

Input watts (120V)	44.9W
--------------------	-------

Candlepower Curve



Ordering information

Type	Size	Delivered lumens	Input watts	Lumens per watt	Avg 8'x10' initial footcandles*	8'x10' Watts per sq. foot	Catalog no.
Static	2' x 2'	2381	30.4	78.3	32	0.38	SKS22GPK25A40ULAG
		3366	44.9	75.0	45	0.56	SKS22GPK33A40ULAG
		3851	52.8	72.9	52	0.66	SKS22GPK38A40ULAG

For Air handling housing models substitute SKS22 for SKA22.

* 42 Recessed LED Luminaires in a 60' x 56' x 9' room with a reflectance of 80/50/20, placed 8' x 10' on center. Footcandle readings are taken 2 1/2' from floor level.

Example	SKS22G			40	U	LAG	
	Skyway LED	Lens shielding	Lumen¹	Color temp^{1,2}	Voltage	Driver²	Options
	Direct	PW = Pattern 19, 0.156 virgin acrylic center lens with frost white acrylic side lenses.	25A = 25k lm 33A = 33k lm 38A = 38k lm	40 = 4000K	UNV = 120-277V	LAG = LED Driver	See page 4.6
	Recessed	PP = Frost white acrylic center lens with frost white acrylic side lenses.					

1. Approximate delivered values (Consult IES file).

2. Consult representative for other color temperature options and driver dimming options.

Options & accessories

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

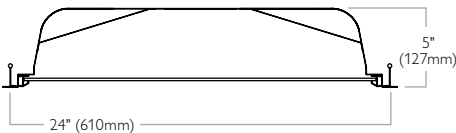
SpecPlus LED 2' x 2'

Direct recessed static luminaires

Easily transition into the new era of the Green office with the SpecPlus LED 2x2 lensed troffer. SpecPlus LED offers a 1/2" regressed extruded aluminum frame with spring loaded latches. The 9/16" wide frame trim gives a 500 square inch aperture. The lens is extruded acrylic, square base male conical prism of .156" overall thickness. Providing excellent obscuration of the light source while controlling volumetric illumination.



SPS22GFSKA38A40ULAG



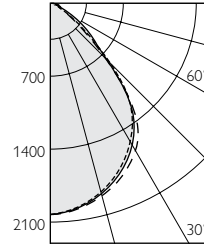
Reference data

Delivered lumens	3621
Efficiency lm/w	85.5

LED Driver

Input watts (120V)	44.9W
--------------------	-------

Candlepower Curve



Features

- Prismatic acrylic lens.
- Flat steel Door frame with 500 square inch lens opening.
- Can provide 52 initial footcandles at 0.56 watts per square foot.
- Delivers 3860 lumens with just 44.9 input watts.
- Field replaceable LED array and drivers accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment.
- Factory calibrated intelligent driver capable of providing various lumen outputs to balance energy savings with lighting application needs.
- High efficiency LEDs have 50,000 hour rated life at L70.
- Predicted L70 lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Black body to dissipate heat from LEDs.
- 5" deep body.
- Earthquake/Hold-down clips.
- Hemmed over side rails for maximum safety.
- Spring loaded rooster head latches.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.
- Not for continuous row mounting.
- Five-year warranty on luminaire, LED boards and driver.

Ordering information

Type	Size	Delivered lumens	Input watts	Lumens per watt	Avg 8'x10' initial footcandles*	8'x10' Watts per sq. foot	Catalog no.
Flat steel/aluminum Door frame with KA lens							
Static	2' x 2'	2565	30.0	84.4	35	0.38	SPS22GFSKA25A40ULAG
		3158	38.4	82.5	43	0.48	SPS22GFSKA33A40ULAG
		3621	44.9	80.6	50	0.56	SPS22GFSKA38A40ULAG
		4140	52.8	78.4	57	0.66	SPS22GFSKA42A40ULAG
Flat steel/aluminum Door frame with VA lens							
Static	2' x 2'	2722	30.0	89.5	36	0.38	SPS22GFSVA25A40ULAG
		3362	38.4	87.6	45	0.48	SPS22GFSVA33A40ULAG
		3841	44.9	85.5	52	0.56	SPS22GFSVA38A40ULAG
		4397	52.8	83.3	59	0.66	SPS22GFSVA42A40ULAG
Regressed aluminum Door frame with KA lens							
Static	2' x 2'	2598	30.0	85.5	35	0.38	SPS22GRAKA25A40ULAG
		3194	38.4	83.4	44	0.48	SPS22GRAKA33A40ULAG
		3681	44.9	82.0	50	0.56	SPS22GRAKA38A40ULAG
		4199	52.8	79.5	58	0.66	SPS22GRAKA42A40ULAG
Regressed aluminum Door frame with VA lens							
Static	2' x 2'	2729	30.0	89.8	37	0.38	SPS22GRAVA25A40ULAG
		3358	38.4	87.7	45	0.48	SPS22GRAVA33A40ULAG
		3860	44.9	86.0	52	0.56	SPS22GRAVA38A40ULAG
		4397	52.8	83.3	59	0.66	SPS22GRAVA42A40ULAG

* 42 Recessed LED luminaires in a 60' x 56' x 9' room with a reflectance of 80/50/20, placed 8' x 10' on center. Footcandle readings are taken 2 1/2' from floor level.

Options & accessories

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

Example	SPS22G	PW			40	U	LAG	
	SpecPlus LED	Lens frame	Lens shielding	Lumen¹	Color temp^{1,2}	Voltage	Driver²	Options
	Direct recessed	FS = Flat steel frame FA = Flat alum. frame RA = Regressed aluminum. frame	KA = 0.156 prismatic acrylic lens VA = 0.095 prismatic acrylic lens	25A = 25k lm 33A = 33k lm 38A = 38k lm 42A = 42k lm	40 = 4000K	UNV = 120-277V	LAG = LED driver	See page 4.7

1. Approximate delivered values (Consult IES file).

2. Consult representative for other color temperature options and driver dimming options.

HP90

Direct/indirect recessed luminaires



HP90

Direct/indirect recessed luminaires

The HP90 family continues to grow. Now offered in T5 or T8 lamping as well as air supply and return capabilities. It's an excellent choice when choosing an architectural designed luminaire for LEED compliant office space. HP90 combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire. HP90 will illuminate both vertical and horizontal surfaces creating balanced brightness.





HP90 T5 2' x 4'

Direct/indirect recessed static luminaires

HP90 combines a recessed contoured body with an enclosed linear prismatic lens to create a 90.4% efficient direct/indirect luminaire. HP90 has an excellent spacing ratio of 1.4 and will illuminate both vertical and horizontal surfaces creating balance brightness while consuming only .63 watts per square foot. It is available in 2' x 4', 2' x 2' and 1' x 4' sizes utilizing T5 lamps. An excellent choice when choosing an architectural designed luminaire for LEED compliant office spaces. The construction pays attention to fit and finish.

Features

- Can provide 54.6 maintained footcandles of balanced brightness illumination at only .68 watts per square foot.
- 87.2% efficient single lamp 28W T5 2' x 4' luminaire.
- 90.4% efficient two lamp 28W T5 2' x 4' luminaire.
- 84.6% efficient two lamp 54W T5HO 2' x 4' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Rust preventive undercoating, Reflector – low iridescence specular aluminum 95% reflectance.

Ballast type	<10THD
Electronic T5 program start	PG
Electronic T5 28W instant start	WA* †
Electronic T5 28W bi-level step ballast (2 lamp)	VY
DALI Ballast	DA

* Ballast (**WA**) only available in 120 or 277 volt.

† 56 Input watts 0.93 B.F.

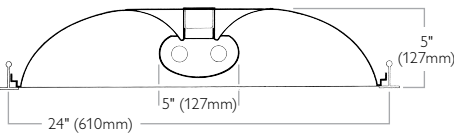
DALI = digital addressable dimming

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

H9S2GLR228120WA



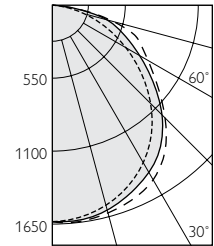
Reference data

Efficiency	90.4%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	54.6W
Ballast factor	0.93

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	H9S2GLR228

Example

H9S2GLR228

HP90
Direct/indirect
Recessed

120

Voltage

120 = 120V

277 = 277V

UNV = 120-277V

WA

Ballast

See page 4.10

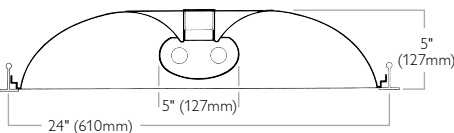
A

Options

See page 4.10

and page 4.130

H9S2GLR254UNVPG



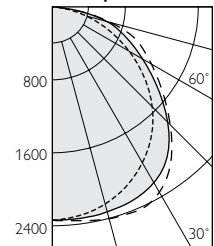
Reference data

Efficiency	84.6%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	112.4W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5HO	54W	H9S2GLR254

Example

H9S2GLR254

HP90
Direct/indirect
Recessed

UNV

Voltage

120 = 120V

277 = 277V

UNV = 120-277V

PG

Ballast

See page 4.10

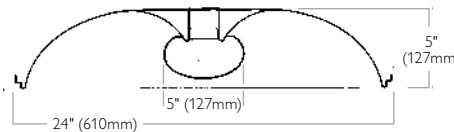
A

Options

See page 4.10

and page 4.130

H9S2GLR128UNVPG



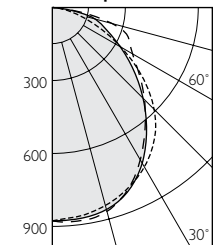
Reference data

Efficiency	87.2%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	31.6W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	1-T5 1-T5HO	28W 54W	H9S2GLR128 H9S2GLR154

Example

H9S2GLR128

HP90
Direct/indirect
Recessed

UNV

Voltage

120 = 120V

277 = 277V

UNV = 120-277V

PG

Ballast

See page 4.10

A

Options

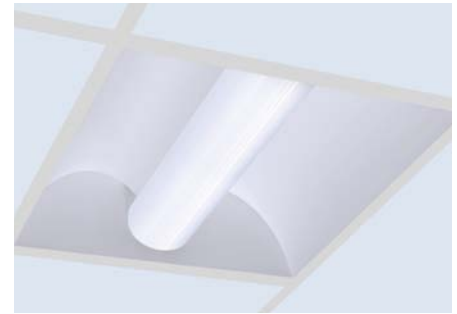
See page 4.10

and page 4.130

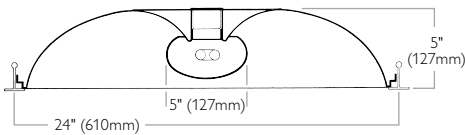
HP90 T5 2' x 2'

Direct/indirect recessed static luminaires

HP90 combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire.



H9S2GLR1FTUNVPR



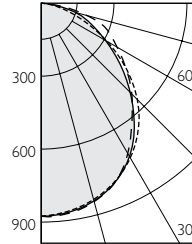
Reference data

Efficiency	72.9%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	37.6W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	1-TT5	40W	H9S2GLR1FT

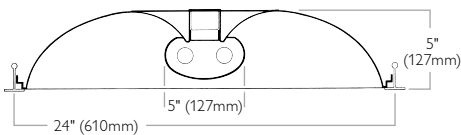
Example

H9S2GLR1FT	UNV	IB	A
HP90 Direct/indirect Recessed	Voltage 120 = 120V 277 = 277V UNV = 120-277V	Ballast See page 4.11	Options See page 4.11 and page 4.130

Features

- 72.9% efficient single lamp 40W twin tube T5 2' x 2' luminaire.
- 83.2% efficient one lamp 14W T5 2' x 2' luminaire.
- 80.3% efficient two lamp 24W T5HO 2' x 2' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

H9S2GLR224UNVPG



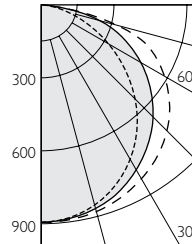
Reference data

Efficiency	80.3%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	49.4W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	H9S2GLR214
		2-T5HO	24W	H9S2GLR224

Example

H9S2GLR224	UNV	PG	A
HP90 Direct/indirect Recessed	Voltage 120 = 120V 277 = 277V UNV = 120-277V	Ballast See page 4.11	Options See page 4.11 and page 4.130

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Rust preventive undercoating. Reflector – low iridescence specular aluminum 95% reflectance.

Ballast type	<10THD	<20THD
Electronic T5 program start	PG	–
Electronic TT5 40W	PR*	–
Electronic TT5 40W	IB	SB
Electronic TT5 50W	BP	–
Electronic TT5 55W	BF	–
Electronic T5 14W bi-level step ballast (2 lamp)	VY	–
DALI Ballast	DA	–

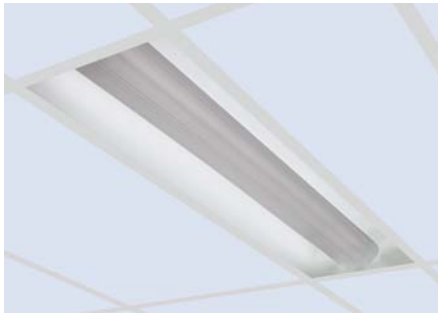
* Program start.

DALI = digital addressable dimming

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).



HP90 T5 1' x 4'

Direct/indirect recessed static luminaires

HP90 combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire.

Features

- 86.9% efficient one lamp 28W T5 1' x 4' luminaire.
- 88.9% efficient two lamp 28W T5 1' x 4' luminaire.
- 86.5% efficient two lamp 54W T5HO 1' x 4' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel.
Cavity – baked flat white acrylic enamel. Rust preventive undercoating. Reflector – low iridescence specular aluminum 95% reflectance.

Ballast type	<10THD
Electronic T5 program start	PG
Electronic T5 28W instant start	WA* †
Electronic T5 28W bi-level step ballast (2 lamp)	VY
DALI Ballast	DA

* Ballast (**WA**) only available in 120 or 277 volt.

† 56 Input watts 0.93 B.F.

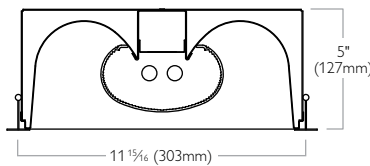
DALI = digital addressable dimming

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Electrical wiring options: Consult factory.
For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing)

H9S1GLR228UNVPG



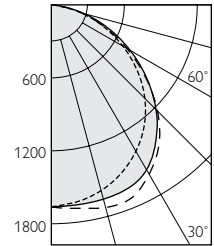
Reference data

Efficiency	88.9%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	63.3W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 4'	2-T5	28W	H9S1GLR228
		2-T5HO	54W	H9S1GLR254

Example

H9S1GLR228

HP90
Direct/indirect
Recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

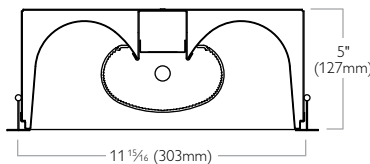
PG

Ballast
See page 4.12

A

Options
See page 4.12
and page 4.130

H9S1GLR128UNVPG



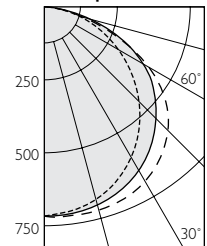
Reference data

Efficiency	86.9%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	32.6W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 4'	1-T5	28W	H9S1GLR128
		1-T5HO	54W	H9S1GLR154

Example

H9S1GLR128

HP90
Direct/indirect
Recessed

120

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

PG

Ballast
See page 4.12

A

Options
See page 4.12
and page 4.130

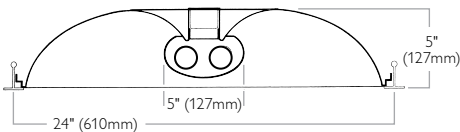
HP90 T8 2' x 4'

Direct/indirect recessed static luminaires

HP90 T8 combines a recessed contoured body with an enclosed linear prismatic lens to create a 85.2% efficient direct/indirect luminaire. HP90 has an excellent spacing ratio of 1.4 and will illuminate both balanced vertical and horizontal surfaces creating balance brightness. It is available in 2' x 4', 2' x 2' and 1' x 4' sizes utilizing T8 lamps. An excellent choice when choosing an architectural designed luminaire for LEED compliant office spaces. The construction pays attention to fit and finish.



H9S2GLR232UNVHI



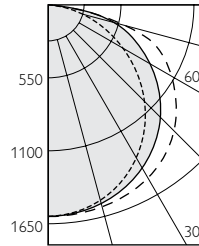
Reference data

Efficiency 85.2%
Spacing ratio 1.4

Electronic ballast

Input watts (120V) 59.7W
Ballast factor 0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	H9S2GLR232

Example

H9S2GLR232

HP90
Direct/indirect
Recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.13

A

Options
See page 4.13
and page 4.130

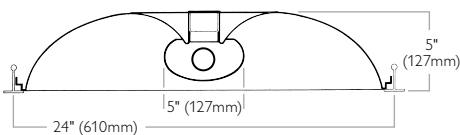
Features

- 85.2% efficient single lamp 32W T8 2' x 4' luminaire.
- 85.2% efficient two lamp 32W T8 2' x 4' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Rust preventive undercoating. Reflector – low iridescence specular aluminum 95% reflectance.

H9S2GLR132UNVHI



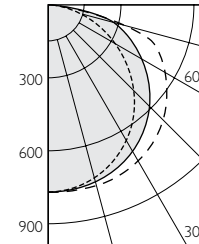
Reference data

Efficiency 85.2%
Spacing ratio 1.4

Electronic ballast

Input watts (120V) 31.2W
Ballast factor 0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	1-T8	32W	H9S2GLR132

Example

H9S2GLR132

HP90
Direct/indirect
Recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.13

A

Options
See page 4.13
and page 4.130

Ballast type	<10THD	<20THD
Electronic T8 (1 or 2 lamp)	HI*	SO*
Electronic T8 (1 or 2 lamp)	P2**	–
LOL Dimming T8	PS	–
Electronic T8 32W bi-level step ballast (2 lamp)	V2	–
DALI Ballast	DA	–

* Instant start. Standard.

** Program start.

DALI = digital addressable dimming

Other dimming options consult factory.

Note: For **T8 UNV**, you must use **HI** or **P2** ballast code.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical wiring options: Consult factory.

For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing).

Suffix: **C** (Internal slow-blow fusing)



HP90 T8 2' x 2'

Direct/indirect recessed static luminaires

HP90 T8 combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire.

Features

- 82.5% efficient one lamp 17W T8 2' x 2' luminaire.
- 80.3% efficient two lamp 17W T8 2' x 2' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Rust preventive undercoating. Reflector – low iridescence specular aluminum 95% reflectance.

Ballast type	<10THD	<20THD
Electronic T8 (1 or 2 lamp)	HI*, P2**	SO*
LOL Dimming T8	PS	–
DALI Ballast	DA	–

* Instant start. Standard.

** Program start.

DALI = digital addressable dimming

Other dimming options consult factory.

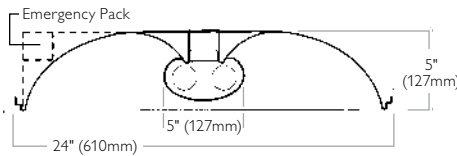
Note: For T8 UNV, you must use HI or P2 ballast code.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing)

H9S2GLR217UNVHI



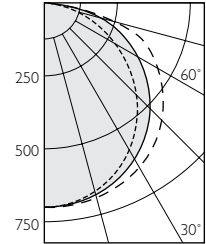
Reference data

Efficiency	80.3%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	30.6W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T8	17W	H9S2GLR217

Example

H9S2GLR217

HP90
Direct/indirect
Recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

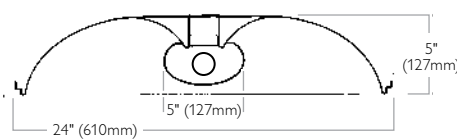
HI

Ballast
See page 4.14

A

Options
See page 4.14
and page 4.130

H9S2GLR117UNVHI



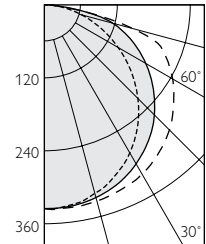
Reference data

Efficiency	82.5%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	16.7W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	1-T8	17W	H9S2GLR117

Example

H9S2GLR117

HP90
Direct/indirect
Recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

HI

Ballast
See page 4.14

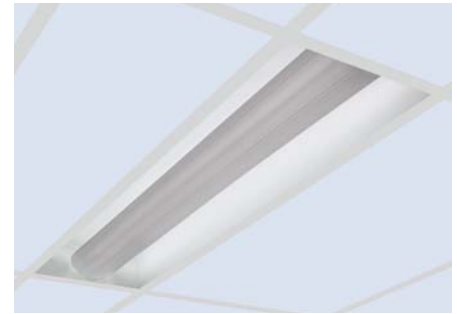
A

Options
See page 4.14
and page 4.130

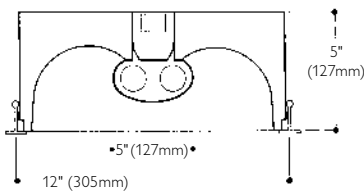
HP90 T8 1' x 4'

Direct/indirect recessed static luminaires

HP90 T8 combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire.



H9S1GLR232UNVHI



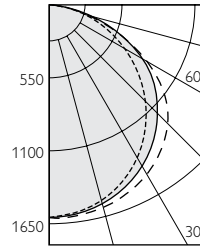
Reference data

Efficiency	78.4%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	59.4W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 4'	2-T8	32W	H9S1GLR232

Example **H9S1GLR232** **UNV** **HI** **A**

HP90
Direct/indirect
Recessed

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

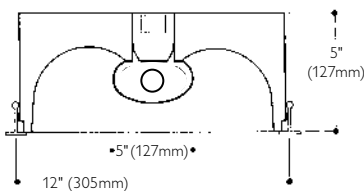
Ballast
See page 4.15

Options
See page 4.15
and page 4.130

Features

- 77.8% efficient one lamp 32W T8 1' x 4' luminaire.
- 78.4% efficient two lamp 32W T8 1' x 4' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

H9S1GLR132UNVHI



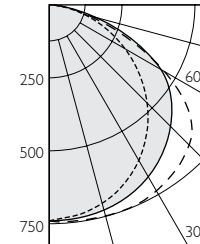
Reference data

Efficiency	77.8%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	29.4W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 4'	1-T8	32W	H9S1GLR132

Example **H9S1GLR132** **UNV** **HI** **A**

HP90
Direct/indirect
Recessed

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.15

Options
See page 4.15
and page 4.130

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Rust preventive undercoating. Reflector – low iridescence specular aluminum 95% reflectance.

Ballast type	<10THD	<20THD
Electronic T8 (1 or 2 lamp)	HI* , P2**	SO*
LOL Dimming T8	PS	–
Electronic T8 32W bi-level step ballast (2 lamp)	V2	–
DALI Ballast	DA	–

* Instant start. Standard

** Program start.

DALI = digital addressable dimming

Other dimming options consult factory.

Note: For **T8 UNV**, you must use **HI** or **P2** ballast code.

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Electrical wiring options: Consult factory.

For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing)



HP90 Air 2' x 4'

Direct/indirect recessed air handling luminaires

HP90 Air combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire with air supply or return capabilities. HP90 Air will illuminate both vertical and horizontal surfaces creating balance brightness. It is available in 2' x 4' and 2' x 2' sizes. An excellent choice when choosing an architectural designed luminaire for LEED compliant office spaces. The construction pays attention to fit and finish.

Features

- 90.4% efficient two lamp 28W T5 2' x 4' luminaire.
- 85.2% efficient two lamp 32W T8 2' x 4' luminaire.
- Direct/indirect appearance with soft contoured interior.
- air supply or Return.
- Air return model meets UL 1598, paragraph 9.2.2.5 requirements.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Ballast type	<10THD	<20THD
Electronic T5 program start	PG	–
Electronic T5 28W instant start	WA* †	–
Electronic T5 28W bi-level step ballast (2 lamp)	VY	–
Electronic T8 (1 or 2 lamp)	HI* , P2**	SO*
LOL Dimming T8	PS	–
Electronic T8 32W bi-level step ballast (2 lamp)	V2	–
DALI Ballast	DA	–

* Instant start. Standard (WA Ballast only available in 120 or 277 volt)

** Program start.

† 56 Input watts 0.93 B.F.

DALI = digital addressable dimming

Other dimming options consult factory.

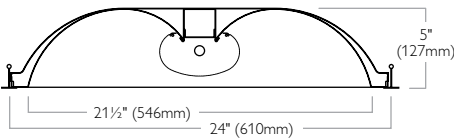
Note: For **T8 UNV**, you must use **HI** or **P2** ballast code.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

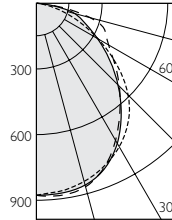
H9A2GLR128UNVPG



Reference data	
Efficiency	87.2%
Spacing ratio	1.2

Electronic ballast	
Input watts (120V)	31.6W
Ballast factor	1.0

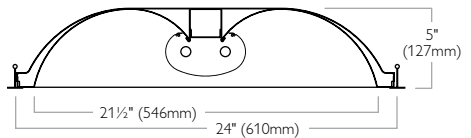
Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Air supply and return	2' x 4'	1-T5	28W	H9A2GLR128
		1-T5HO	54W	H9A2GLR154
		2-T5	28W	H9A2GLR228
		2-T5HO	54W	H9A2GLR254

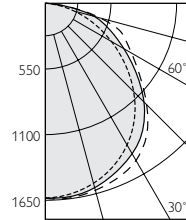
H9A2GLR228120WA



Reference data	
Efficiency	90.4%
Spacing ratio	1.4

Electronic ballast	
Input watts (120V)	54.6W
Ballast factor	0.93

Candlepower Curve



Example **H9A2GLR228 UNV PG A**

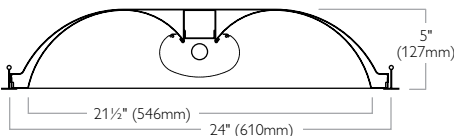
HP90 Air
Direct/indirect recessed air supply and return

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

Ballast
See page 4.16

Options
See page 4.16 and page 4.130

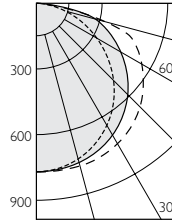
H9A2GLR132UNVHI



Reference data	
Efficiency	85.2%
Spacing ratio	1.4

Electronic ballast	
Input watts (120V)	31.2W
Ballast factor	0.88

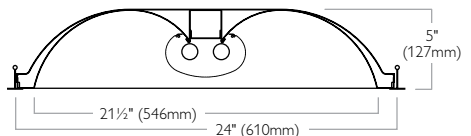
Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Air supply and return	2' x 4'	1-T8	32W	H9A2GLR132
		2-T8	32W	H9A2GLR232

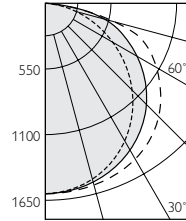
H9A2GLR232UNVHI



Reference data	
Efficiency	85.2%
Spacing ratio	1.4

Electronic ballast	
Input watts (120V)	59.7W
Ballast factor	0.88

Candlepower Curve



Example **H9A2GLR232 UNV HI A**

HP90 Air
Direct/indirect recessed air supply and return

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

Ballast
See page 4.16

Options
See page 4.16 and page 4.130

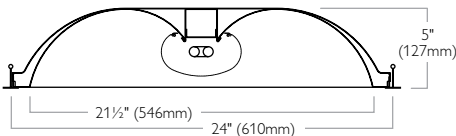
HP90 Air 2' x 2'

Direct/indirect recessed air handling luminaires

HP90 Air combines a recessed contoured body with an enclosed linear prismatic lens to create an efficient direct/indirect luminaire with air supply or return capabilities. HP90 Air will illuminate both vertical and horizontal surfaces creating balance brightness. It is available in 2' x 4' and 2' x 2' sizes. An excellent choice when choosing an architectural designed luminaire for LEED compliant office spaces. The construction pays attention to fit and finish.



H9A2GLR1FTUNVPR



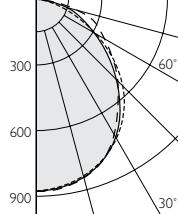
Reference data

Efficiency	72.9%
Spacing ratio	1.2

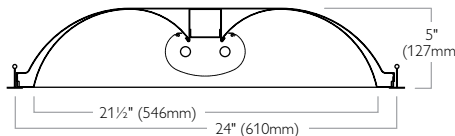
Electronic ballast

Input watts (120V)	37.6W
Ballast factor	1.0

Candlepower Curve



H9A2GLR224UNVPG



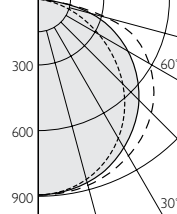
Reference data

Efficiency	80.3%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	49.4W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Air supply and return	2' x 2'	1-TT5	40W	H9A2GLR1FT
		2-T5	14W	H9A2GLR214
		2-T5HO	24W	H9A2GLR224

Example

H9A2GLR214

HP90 Air
Direct/indirect recessed
air supply and return

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.17

A

Options
See page 4.17
and page 4.130

Features

- 72.9% efficient single lamp 40W Twin tube T5 2' x 2' luminaire.
- 83.2% efficient one lamp 14W T5 2' x 2' luminaire.
- 80.3% efficient two lamp 24W T5HO 2' x 2' luminaire.
- Direct/indirect appearance with soft contoured interior.
- air supply or Return.
- Air return model meets UL 1598, paragraph.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast iGEN technology accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Ballast type	<10THD	<20THD
Electronic T5 program start	PG	–
Electronic TT5 40W	IB	SB
Electronic TT5 50W	BP	–
Electronic TT5 55W	BF	–
Electronic T5 14W bi-level step ballast (2 lamp)	VY	–
Electronic T8 (1 or 2 lamp)	HI* , P2**	SO*
LOL Dimming T8	PS	–
DALI Ballast	DA	–

* Instant start. Standard

** Program start.

DALI = digital addressable dimming

Other dimming options consult factory.

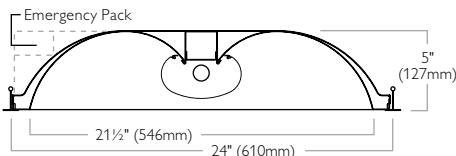
Note: For **T8 UNV**, you must use **HI** or **P2** ballast code.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

H9A2GLR117UNVHI



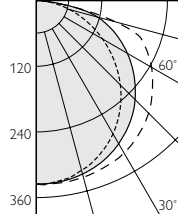
Reference data

Efficiency	82.5%
Spacing ratio	1.4

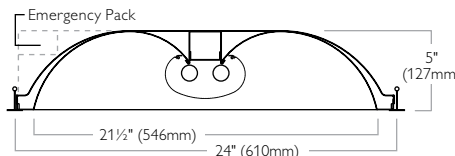
Electronic ballast

Input watts (120V)	16.7W
Ballast factor	0.88

Candlepower Curve



H9A2GLR217UNVHI



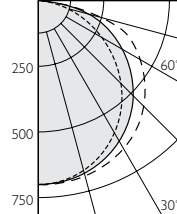
Reference data

Efficiency	80.3%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	30.6W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Air supply and return	2' x 2'	1-T8	17W	H9A2GLR117
		2-T8		H9A2GLR217

Example

H9A2GLR232

HP90 Air
Direct/indirect recessed
air supply and return

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.17

A

Options
See page 4.17
and page 4.130



HP90 2' x 4' & 2' x 2'

Direct/indirect semi-recessed static luminaires

HP90 Drop Lens ~ Semi Recessed offers T5 lamp options in a body that is only recessed 2 1/4". The translucent linear prismatic lens and softly contoured body, create a pleasing architectural statement that is evenly illuminated. Its broad light distribution illuminates both horizontal and vertical surfaces, creating a soft balanced brightness in any space that enhances visual acuity.

Features

- Only 2-1/4" plenum depth.
- 87.0% efficient single lamp 28W T5 2' x 4' luminaire.
- 88.5% efficient two lamp 28W T5 2' x 4' luminaire.
- 78.2% efficient single lamp 40W Twin tube T5 2' x 2' luminaire.
- 77.1% efficient two lamp 24 watt T5 2' x 2' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Lamp shield opens from either side.
- Ballast accessible from room side.
- Wiring access plate standard.
- Optional DALI ballast iGEN Technology accepts digital dimming controllers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Rust preventive undercoating, Reflector – low iridescence specular aluminum 95% reflectance.

Ballast type	<10THD
40W TT5	PR
Electronic T5 program start	PG
Electronic T5 28W instant start	WA* †
Electronic T5 14W/28W bi-level step ballast (2 lamp)	VY
DALI Ballast	DA

* Ballast (WA) only available in 120 or 277 volt.

† 56 Input watts 0.93 B.F.

DALI = digital addressable dimming

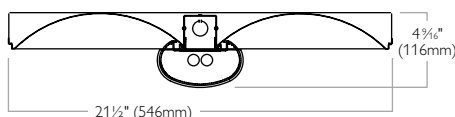
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



HDS2GLW228120WA



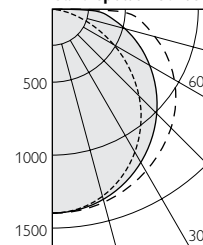
Reference data

Efficiency	88.5%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	54.1W
Ballast factor	0.93

Candlepower Curve

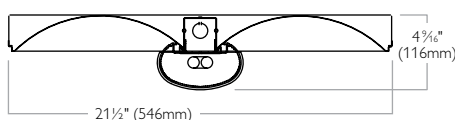


Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	1-T5	28W	HDS2GLW128
		2-T5	28W	HDS2GLW228
		1-T5HO	54W	HDS2GLW154
		2-T5HO	54W	HDS2GLW254

Example	HDS2GLW228	120	WA	A
	HP90 Semi-recessed	Voltage	Ballast	Options
	Direct/indirect recessed static	120 = 120V 277 = 277V UNV = 120-277V	See page 4.18	See page 4.18 and page 4.130

HDS2GLW1FTUNVPR



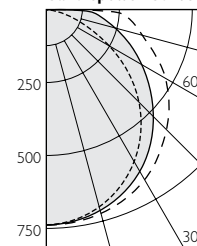
Reference data

Efficiency	78.2%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	38.4W
Ballast factor	1

Candlepower Curve



Ordering information

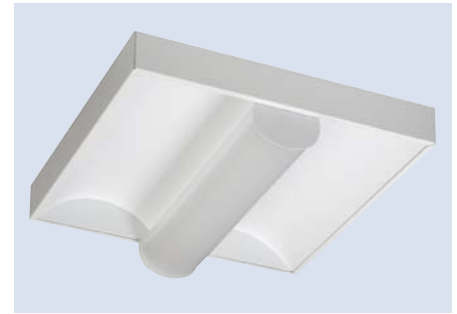
Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	HDS2GLW214
		2-T5HO	24W	HDS2GLW224
		1-Twin tube T5	40W	HDS2GLW1FT

Example	HDS2GLW1FT	UNV	PR	A
	HP90 Semi-recessed	Voltage	Ballast	Options
	Direct/indirect recessed static	120 = 120V 277 = 277V UNV = 120-277V	See page 4.18	See page 4.18 and page 4.130

HP90 2' x 4' & 2' x 2'

Direct/indirect surface-mounted static luminaires

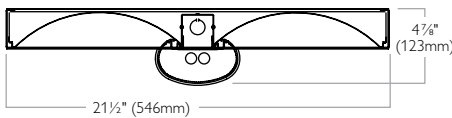
HP90 Drop Lens ~ Surface Mounted offers T5 lamp options in a body that is only 2-17/32" deep. The translucent linear prismatic lens and softly contoured body, create a pleasing architectural statement that is evenly illuminated. Its broad light distribution illuminates both horizontal and vertical surfaces, creating a soft balanced brightness in any space that enhances visual acuity.



Features

- 88.5% efficient two lamp 28W 2' x 4' luminaire.
- 87.0% efficient single lamp 28W 2' x 4' luminaire.
- 77.1% efficient two lamp 24W T5HO 2' x 2' luminaire.
- 78.2% efficient single lamp 40W twin tube T5 2' x 2' luminaire.
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Lamp shield opens from either side.
- Ballast accessible from room side.
- Built-in earthquake clips.
- Optional DALI ballast iGEN Technology accepts digital dimming controllers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum requirement available.
- Not for continuous row mounting.

HDB2SLW228120WA



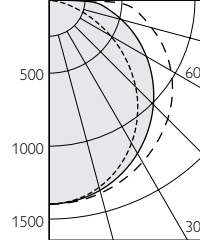
Reference data

Efficiency	88.5%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	54.1W
Ballast factor	0.93

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	1-T5	28W	HDB2SLW128
		2-T5	28W	HDB2SLW228
		1-T5HO	54W	HDB2SLW154
		2-T5HO	54W	HDB2SLW254

Example

HDB2SLW228

HP90 Surface mounted
Direct/indirect
recessed static

120

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

WA

Ballast
See page 4.19

A

Options
See page 4.19
and page 4.130

Ballast type

<10THD

40 W TT5	PR
Electronic T5 program start	PG
Electronic T5 28W instant start	WA *†
Electronic T5 14W/28W bi-level step ballast (2 lamp)	YY
DALI Ballast	DA

* Ballast (**WA**) only available in 120 or 277 volt.

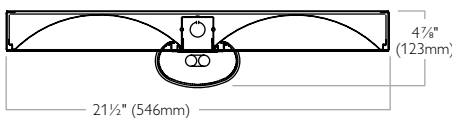
† 56 Input watts 0.93 B.F.

DALI = digital addressable dimming

Electrical wiring options: Consult factory. For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

HDB2SLW1FTUNVPR



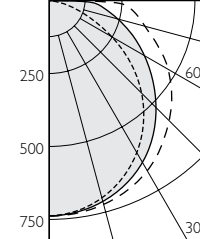
Reference data

Efficiency	78.2%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	38.4W
Ballast factor	1

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	HDB2SLW214
		2-T5HO	24W	HDB2SLW224
		1-Twin tube T5	40W	HDB2SLW1FT

Example

HDB2SLW1FT

HP90 Surface mounted
Direct/indirect
recessed static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PR

Ballast
See page 4.19

A

Options
See page 4.19
and page 4.130



Paraplus II 2' x 4'

Direct/indirect louver air return or static recessed luminaires

Paraplus II is an architecturally styled recessed luminaire that combines the features of a parabolic louver and an indirect cove to create an aesthetically pleasing direct/indirect appearance.

Features

- Direct/indirect louver appearance with soft contoured interior.
- 12 cell flat white louver with prismatic lens overlay.
- 67.8% efficient three lamp T8 2' x 4' luminaire.
- 82.0% efficient two lamp T5 2' x 4' luminaire.
- 72.1% efficient two lamp T8 2' x 4' luminaire.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Air return standard (meets UL requirements).
- Static optional.
- Louver hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Built in earthquake clips.
- Housing is available in 20 gauge steel that meets NYC requirements.

Options & accessories [page 4.130](#)

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

* Instant start.
** Program start.

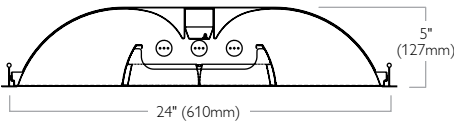
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

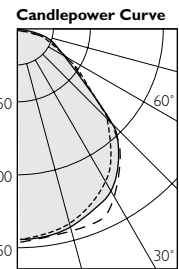
Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

PPH2G12FW332UNVH3



Reference data	
Efficiency	67.8%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	85W

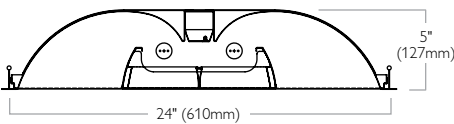


Ordering information

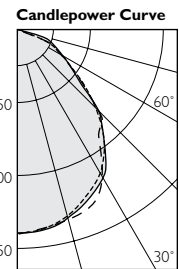
Type	Size	Lamp qty–type	Louver overlay	Catalog no.
Air return	2' x 4'	3-T8	P20	PPH2G12FW332
			P20 & white overlay	PPH2G12FO332
			Matte white lens	PPH2G12FM332
Static	2' x 4'	3-T8	P20	PPS2G12FW332
			P20 & white overlay	PPS2G12FO332
			Matte white lens	PPS2G12FM332

Example **PPH2G12FW332** **UNV** **H3** **A**
Paraplus **Voltage** **Ballast** **Options**
 Recessed direct/indirect 120, 277 or UNV (120-277) See page 4.20 See page 4.20 and page 4.130

PPH2G12FW232UNVHI



Reference data	
Efficiency	72.1%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	62W

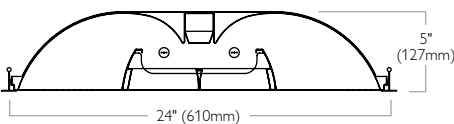


Ordering information

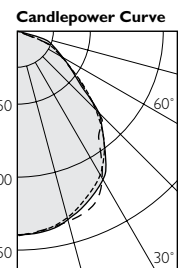
Type	Size	Lamp qty–type	Louver overlay	Catalog no.
Air return	2' x 4'	2-T8	P20	PPH2G12FW232
			P20 & white overlay	PPH2G12FM232
			Matte white lens	PPH2G12FO232
Static	2' x 4'	2-T8	P20	PPS2G12FW232
			P20 & white overlay	PPS2G12FO232
			Matte white lens	PPS2G12FM232

Example **PPH2G12FW232** **UNV** **HI** **A**
Paraplus **Voltage** **Ballast** **Options**
 Recessed direct/indirect 120, 277 or UNV (120-277) See page 4.20 See page 4.20 and page 4.130

PPS2G12FW254UNVPG



Reference data	
Efficiency	82.0%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	120W



Ordering information

Type	Size	Lamp qty–type	Louver overlay	Catalog no.
Air return	2' x 4'	2-T5HO	P20	PPS2G12FW254
			P20 & white overlay	PPS2G12FO254
			Matte white lens	PPS2G12FM254
Static	2' x 4'	2-T5	P20	PPS2G12FW228
			P20 & white overlay	PPS2G12FO228
			Matte white lens	PPS2G12FM228

Example **PPS2G12FW254** **UNV** **PG** **A**
Paraplus **Voltage** **Ballast** **Options**
 Recessed direct/indirect 120, 277 or UNV (120-277) See page 4.20 See page 4.20 and page 4.130

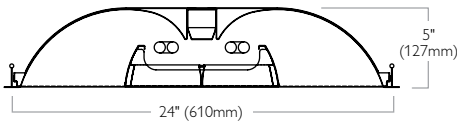
Paraplus II 2' x 2'

Direct/indirect louver air return or static recessed luminaires

Paraplus II is an architecturally styled recessed luminaire that combines the features of a parabolic louver and an indirect cove to create an aesthetically pleasing direct/indirect appearance.



PPH2G8FW2FT120SB



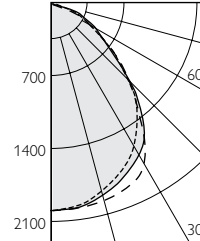
Reference data

Efficiency	72.0%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	72.6W
--------------------	-------

Candlepower Curve



Features

- Direct/indirect louver appearance with soft contoured interior.
- 8 cell flat white louver with prismatic lens overlay.
- 72.0% efficient two lamp TT5 2' x 2' luminaire.
- 71.4% efficient two lamp T5HO 2' x 2' luminaire.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Air return standard (meets UL requirements).
- Static optional.
- Louver hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Built in earthquake clips.
- Housing is available in 20 gauge steel that meets NYC requirements.

Ordering information

Type	Size	Lamp qty-type	Louver overlay	Catalog no.
Air return	2' x 2'	2-TT5	P20	PPH2G8FW2FT
			P20 & white overlay	PPH2G8FO2FT
			Matte white lens	PPH2G8FM2FT
Static	2' x 2'	2-TT5	P20	PPS2G8FW2FT
			P20 & white overlay	PPS2G8FO2FT
			Matte white lens	PPS2G8FM2FT

Example

PPH2G8FW2FT

120

SB

A

Paraplus

Recessed direct/indirect

Voltage

120, 277 or UNV (120-277)

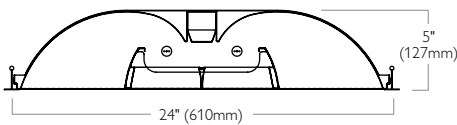
Ballast

See page 4.21

Options

See page 4.21 and page 4.130

PPS2G8FW224UNVPG



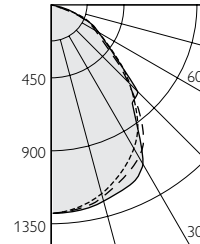
Reference data

Efficiency	71.4%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	56.9W
--------------------	-------

Candlepower Curve



Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic TT5	IB*	SB*
Electronic T5	PG	–

* Instant start.

** Program start.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty-type	Louver overlay	Catalog no.
Static	2' x 2'	2-T5	P20	PPS2G8FW214
			P20 & white overlay	PPS2G8FO214
			Matte white lens	PPS2G8FM214
		2-T5HO	P20	PPS2G8FW224
			P20 & white overlay	PPS2G8FO224
			Matte white lens	PPS2G8FM224
		2-T8	P20	PPS2G8FW217
			P20 & white overlay	PPS2G8FO217
			Matte white lens	PPS2G8FM217
		3-T8	P20	PPS2G8FW317
			P20 & white overlay	PPS2G8FO317
			Matte white lens	PPS2G8FM317

Example

PPS2G8FW224

UNV

PG

A

Paraplus

Recessed direct/indirect

Voltage

120, 277 or UNV (120-277)

Ballast

See page 4.21

Options

See page 4.21 and page 4.130



Paraplus II 1' x 4'

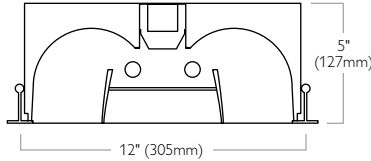
Direct/indirect louver air return or static recessed luminaires

Paraplus II is an architecturally styled recessed luminaire that combines the features of a parabolic louver and an indirect cove to create an aesthetically pleasing direct/indirect appearance.

Features

- Direct/indirect louver appearance with soft contoured interior.
- 6 cell flat white louver with prismatic lens overlay.
- 60.2% efficient two lamp T8 1' x 4' luminaire.
- 67.5% efficient single lamp T5HO 1' x 4' luminaire.
- 71.4% efficient two lamp T5HO 1' x 4' luminaire.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Air return standard (meets UL requirements).
- Static optional.
- Louver hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.
- 4 earthquake clips standard.
- Housing is 20 gauge steel, meets NYC requirements.

PPH1G6FW232UNVHI



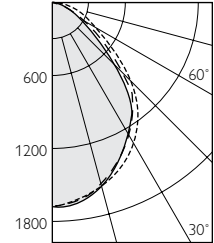
Reference data

Efficiency	60.2%
Spacing ratio	1.1

Electronic ballast

Input watts (120V)	64.1W
--------------------	-------

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Louver overlay	Catalog no.
Air return	1' x 4'	2-T8	P20 P20 & white overlay Matte white lens	PPH1G6FW232 PPH1G6FO232 PPH1G6FM232

Example

PPH1G6FW232

Paraplus
Recessed direct/indirect

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

HI

Ballast
See page 4.22

A

Options
See page 4.22
and page 4.130

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
Electronic T5	PG	–

* Instant start.

** Program start.

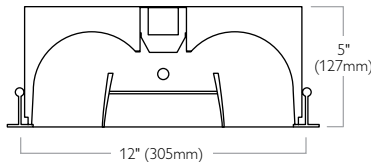
Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

PPS1G6FW154UNVPG



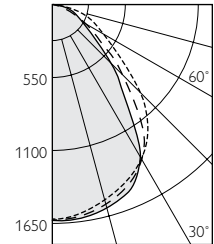
Reference data

Efficiency	67.5%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	60.7W
--------------------	-------

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Louver overlay	Catalog no.
Static	1' x 4'	2-T5HO	P20 P20 & white overlay Matte white lens	PPS1G6FW254 PPS1G6FO254 PPS1G6FM254
		1-T5HO	P20 P20 & white overlay Matte white lens	PPS1G6FW154 PPS1G6FO154 PPS1G6FM154
		2-T5	P20 P20 & white overlay Matte white lens	PPS1G6FW228 PPS1G6FO228 PPS1G6FM228

Example

PPS1G6FW154

Paraplus
Recessed direct/indirect

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

PG

Ballast
See page 4.22

A

Options
See page 4.22
and page 4.130

Paraplius II

Direct/indirect louver air return or static recessed luminaires





Opalescent

Premium specification recessed air handling or static luminaires

Opalescent's 2 1/2" recessed frame with contoured lens, made of a high light transmission frost white acrylic, creates a bold but simple appearance that will blend with any architectural environment. The Opalescent lens frame assembly, designed with precision mitered side rails and integrated spring loaded latches, allows for simple installation and maintenance of the lamps and ballast.



The exterior of the Opalescent housing is black and incorporates eyeleted heat removal vents on the end caps, creating an environment for a cooler ballast operating temperature. The internal reflector system is powder coated with our 95% reflective white paint. When matched with the high light transmission frost white acrylic lens it gives the Opalescent efficiencies that qualify for many rebate programs, making it a true energy and cost saving choice.

Opalescent T5 2' x 4'

Premium specification recessed air handling or static luminaires

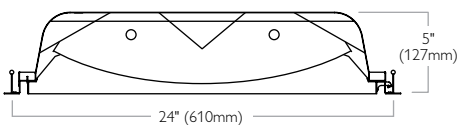
Opalescent's 2 1/2" regressed frame with contoured lens, made of a high light transmission frost white acrylic, creates a bold but simple appearance that will blend with any architectural environment. The Opalescent lens frame assembly, designed with precision mitered side rails and integrated spring loaded latches, allows for simple installation and maintenance of the lamps and ballast. The exterior of the Opalescent housing is black and incorporates eyeleted heat removal vents on the end caps, creating an environment for a cooler ballast operating temperature. The internal reflector system is powder coated with our 95% reflective white paint. When matched with the high light transmission frost white acrylic lens it gives the Opalescent efficiencies that qualify for many rebate programs, making it a true energy and cost saving choice.



Features

- Bold but simple 2-1/2" regressed frame with contoured lens.
- High light transmission frost white acrylic lens.
- True mitered corner lens frame.
- 86.8% efficient two lamp 28W T5 2' x 4' luminaire.
- 79.5% efficient two lamp 54W T5HO 2' x 4' luminaire.
- Internal reflector coated with 95% reflective white paint.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

OPA2GPW228UNVPG



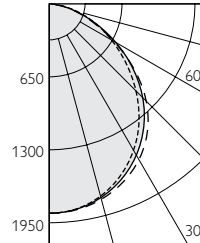
Reference data

Efficiency 86.8%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 62.7W
Ballast factor 1

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	OPS2GPW228
Air handling	2' x 4'	2-T5	28W	OPA2GPW228

Example

OPA2GPW228

Opalescent
Frost white contoured lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.25

A

Options
See page 4.25
and page 4.130

Options & accessories page 4.130

Ballast type	<10THD
Electronic T5 program start	PG
Electronic T5 28W instant start	WA *†
Electronic T5 28W bi-level step ballast (2 lamp)	VY
DALI Ballast	DA

* Ballast (**WA**) only available in 120 or 277 volt.

† 56 Input watts 0.93 B.F.

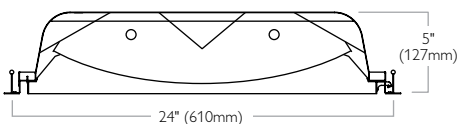
DALI = digital addressable dimming

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

OPA2GPW254UNVPG



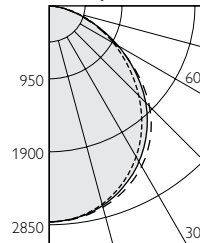
Reference data

Efficiency 79.5%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 115.0W
Ballast factor 1

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5HO	54W	OPS2GPW254
Air handling	2' x 4'	2-T5HO	54W	OPA2GPW254

Example

OPA2GPW254

Opalescent
Frost white contoured lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.25

A

Options
See page 4.25
and page 4.130



Opalescent T5 2' x 2'

Premium specification recessed air handling or static luminaires

Opalescent's 2 1/2" regressed frame with contoured lens, made of a high light transmission frost white acrylic, creates a bold but simple appearance that will blend with any architectural environment. The Opalescent lens frame assembly, designed with precision mitered side rails and integrated spring loaded latches, allows for simple installation and maintenance of the lamps and ballast. The exterior of the Opalescent housing is black and incorporates eyeleted heat removal vents on the end caps, creating an environment for a cooler ballast operating temperature. The internal reflector system is powder coated with our 95% reflective white paint. When matched with the high light transmission frost white acrylic lens it gives the Opalescent efficiencies that qualify for many rebate programs, making it a true energy and cost saving choice.

Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 82.8% efficient two lamp 40W TT5 2' x 2' luminaire.
- 75.6% efficient two lamp 14W T5 2' x 2' luminaire.
- 76.1% efficient two lamp 24W T5HO 2' x 2' luminaire.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Options & accessories page 4.130

Ballast type	<10THD	<20THD
Electronic T5 program start	PG	–
Electronic TT5 40W	PR*	–
Electronic TT5 40W	IB	SB
Electronic TT5 50W	BP	–
Electronic TT5 55W	BF	–
Electronic T5 14W bi-level step ballast (2 lamp)	VY	–
DALI Ballast	DA	–

* Program start.

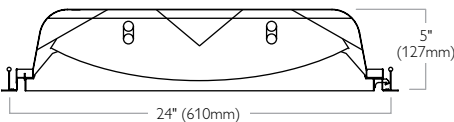
DALI = digital addressable dimming

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

OPS2GPW2FTUNVPR



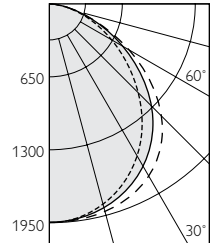
Reference data

Efficiency	82.8%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	67.4W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-Twin tube T5	40W	OPS2GPW2FT
Air handling	2' x 2'	2-Twin tube T5	40W	OPA2GPW2FT

Example

OPS2GPW2FT

Opalescent

Frost white contoured lens design
Air handling or static

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

PR

Ballast

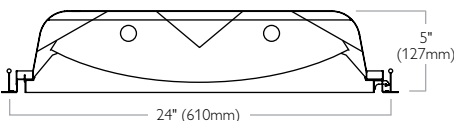
See page 4.26

A

Options

See page 4.26
and page 4.130

OPA2GPW224UNVPG



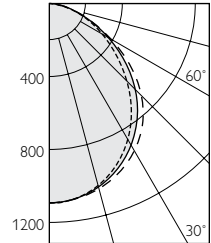
Reference data

Efficiency	76.1%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	51.1W
Ballast factor	1

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	OPS2GPW214
		2-T5HO	24W	OPS2GPW224
Air handling	2' x 2'	2-T5	14W	OPA2GPW214
		2-T5HO	24W	OPA2GPW224

Example

OPA2GPW224

Opalescent

Frost white contoured lens design
Air handling or static

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

PG

Ballast

See page 4.26

A

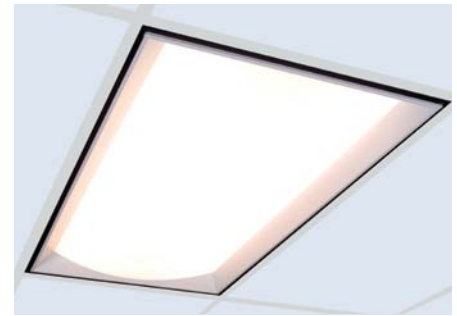
Options

See page 4.26
and page 4.130

Opalescent T8 2' x 4'

Premium specification recessed air handling or static luminaires

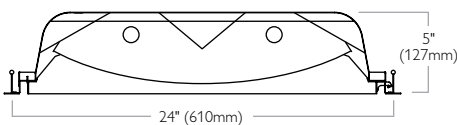
Opalescent's 2 1/2" regressed frame with contoured lens, made of a high light transmission frost white acrylic, creates a bold but simple appearance that will blend with any architectural environment. The Opalescent lens frame assembly, designed with precision mitered side rails and integrated spring loaded latches, allows for simple installation and maintenance of the lamps and ballast. The exterior of the Opalescent housing is black and incorporates eyeleted heat removal vents on the end caps, creating an environment for a cooler ballast operating temperature. The internal reflector system is powder coated with our 95% reflective white paint. When matched with the high light transmission frost white acrylic lens it gives the Opalescent efficiencies that qualify for many rebate programs, making it a true energy and cost saving choice.



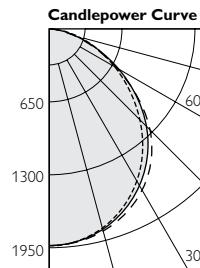
Features

- Bold but simple 2 1/2" regressed frame with contoured lens.
- High light transmission frost white acrylic lens.
- True mitered corner lens frame.
- 80.8% efficient two lamp 32W T8 2' x 4' luminaire.
- 80.0% efficient three lamp 25W T8 2' x 4' luminaire.
- Internal reflector coated with 95% reflective white paint.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

OPA2GPW232UNVC5



Reference data	
Efficiency	80.8%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	53.5W
Ballast factor	0.77



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	OPS2GPW232
Air handling	2' x 4'	2-T8	32W	OPA2GPW232

Example **OPA2GPW232** **UNV** **C5** **A**

Opalescent
Frost white contoured lens design
Air handling or static

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

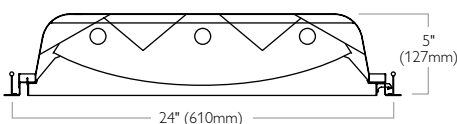
Ballast
See page 4.27

Options
See page 4.27 and page 4.130

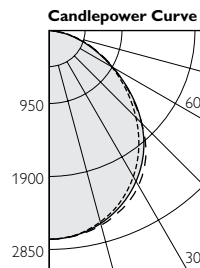
Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

OPA2GPW332UNVH3



Reference data – 25W	
Efficiency	80.0%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	71.1W
Ballast factor	0.88



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	3-T8	32W	OPS2GPW332
Air handling	2' x 4'	3-T8	32W	OPA2GPW332

Example **OPA2GPW332** **UNV** **H3** **A**

Opalescent
Frost white contoured lens design
Air handling or static

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.27

Options
See page 4.27 and page 4.130

Ballast type	<10THD	<20THD
Electronic T8	HI, P2**	SO*
1 - 3 Lamp T8	H3*, P3**	O3*
Advance Optanium Low Watt.77 Electronic T8	C5*	–

* Instant start.
** Program start.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Opalescent T8 2' x 2'

Premium specification recessed air handling or static luminaires

Opalescent's 2 1/2" recessed frame with contoured lens, made of a high light transmission frost white acrylic, creates a bold but simple appearance that will blend with any architectural environment. The Opalescent lens frame assembly, designed with precision mitered side rails and integrated spring loaded latches, allows for simple installation and maintenance of the lamps and ballast. The exterior of the Opalescent housing is black and incorporates eyeleted heat removal vents on the end caps, creating an environment for a cooler ballast operating temperature. The internal reflector system is powder coated with our 95% reflective white paint. When matched with the high light transmission frost white acrylic lens it gives the Opalescent efficiencies that qualify for many rebate programs, making it a true energy and cost saving choice.

Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 74.5% efficient two lamp 17W T8 2' x 2' luminaire.
- 70.1% efficient three lamp 17W T8 2' x 2' luminaire.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*

* Instant start.
** Program start.

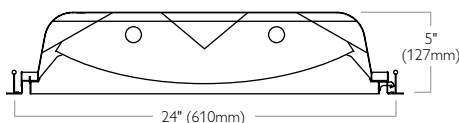
Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

OPA2GPW217UNVHI

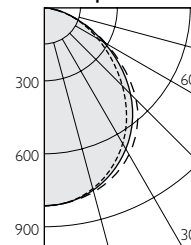


Reference data	
Efficiency	74.5%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	30.2W
Ballast factor	0.90

Ordering information

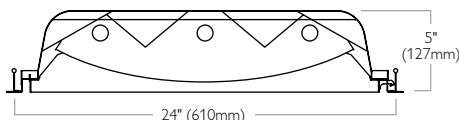
Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T8	17W	OPS2GPW217
		2-6" U T8	32W	OPS2GPW26U
Air handling	2' x 2'	2-T8	17W	OPA2GPW217
		2-6" U T8	32W	OPA2GPW26U

Candlepower Curve



Example	OPA2GPW217	UNV	HI	A
	Opalescent	Voltage	Ballast	Options
	Frost white contoured lens design	120 = 120V	See page 4.28	See page 4.28
	Air handling or static	277 = 277V		and page 4.130
		UNV = 120-277V		

OPA2GPW317UNVH3

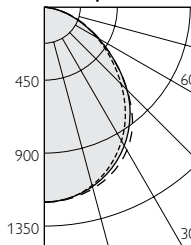


Reference data	
Efficiency	70.1%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	45.5W
Ballast factor	0.92

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	3-T8	17W	OPS2GPW317
Air handling	2' x 2'	3-T8	17W	OPA2GPW317

Candlepower Curve



Example	OPA2GPW317	UNV	H3	A
	Opalescent	Voltage	Ballast	Options
	Frost white contoured lens design	120 = 120V	See page 4.28	See page 4.28
	Air handling or static	277 = 277V		and page 4.130
		UNV = 120-277V		

Opalescent Twin 2' x 4' & 2' x 2'

Premium specification recessed luminaires

Dual sculptured ends and curved opal prismatic lens, presented in a shallow regressed Door frame the Opalescent Twin provides a broad distribution that illuminates the vertical and horizontal surfaces in the work space. This creates a soft, balanced brightness that enhances the ability to see and work.



The Opalescent Twin provides illumination at power levels below LEED requirements and yet is a highly efficient luminaire. With a shallow depth of only 3 1/2", access to the ballast from below, the Opalescent Twin is an excellent choice for any commercial application and a welcome part of the Opalescent family.

The Opalescent Twin will be available with two high performance T8 lamps, as well as T5 and T5HO fluorescent lamps in the 2' x 4', and T8, T5, T5HO or TT5 fluorescent lamps in the 2' x 2', both sizes will also be offered with LED options. Opalescent Twin will fit standard grid and dry wall ceilings with use of optional FK Dry wall kit.

Available 4th quarter 2011

OTS2GPW232UNVHI

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	OTS2GPW232UNVHI
		2-T5	28W	OTS2GPW228UNVPG
		2-T5HO	54W	OTS2GPW254UNVPG
Static	2' x 2'	2-T5	14W	OTS2GPW214UNVPG
		2-T8	17W	OTS2GPW217UNVHI
		2-T5HO	24W	OTS2GPW224UNVPG
		2-TT5	40W	OTS2GPW2FTUNVPR



Skyway T5 2' x 4'

Premium specification recessed air handling or static luminaires

Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a recessed extruded aluminum frame with spring loaded latches. These 85% light transmission lenses, coupled with an internal reflector system coated with our 95% reflective white paint, creates our new, energy efficient Skyway.

Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 73% efficient two lamp 28W T5 2' x 4' luminaire.
- 72.7% efficient two lamp 54W T5HO 2' x 4' luminaire.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Options & accessories page 4.130

Ballast type	<10THD
Electronic T5 program start	PG
Electronic T5 28W instant start	WA* †
Electronic T5 28W bi-level step ballast (2 lamp)	VY
DALI Ballast	DA

* Ballast (WA) only available in 120 or 277 volt.

† 56 Input watts 0.93 B.F.

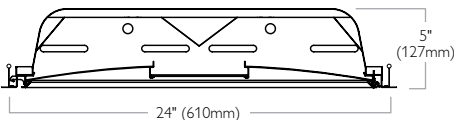
DALI = digital addressable dimming

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

SKS2GPK228120WA



Reference data

Efficiency	73.0%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	54.5W
Ballast factor	0.93

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	SKS2GPK228
		3-T5		SKS2GPK328
Air handling	2' x 4'	2-T5	28W	SKA2GPK228
		3-T5		SKA2GPK328

Example

SKS2GPK228

Skyway
Triple lens design
Air handling or static

120

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

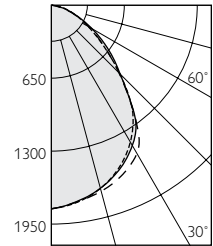
WA

Ballast
See page 4.30

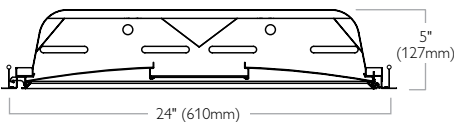
A

Options
See page 4.30
and page 4.130

Candlepower Curve



SKS2GPK254UNVPG



Reference data

Efficiency	72.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	114.9W
Ballast factor	1.0

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5HO	54W	SKS2GPK254
		3-T5HO		SKS2GPK354
Air handling	2' x 4'	2-T5HO	54W	SKA2GPK254
		3-T5HO		SKA2GPK354

Example

SKS2GPK254

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

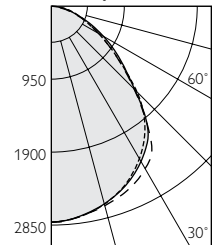
PG

Ballast
See page 4.30

A

Options
See page 4.30
and page 4.130

Candlepower Curve



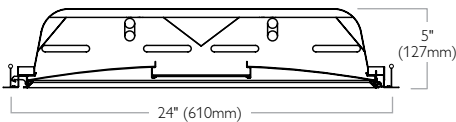
Skyway T5 2' x 2'

Premium specification recessed air handling or static luminaires

Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a regressed extruded aluminum frame with spring loaded latches. These 85% light transmission lenses, coupled with an internal reflector system coated with our 95% reflective white paint, creates our new, energy efficient Skyway.



SKS2GPK2FTUNVIB



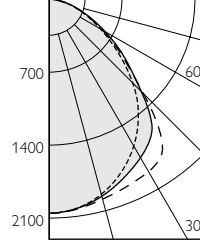
Reference data

Efficiency	76.5%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	69.1W
Ballast factor	0.88

Candlepower Curve



Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 76.5% efficient two lamp 40W Twin tube T5 2' x 2' luminaire.
- 72.8% efficient two lamp 14W T5 2' x 2' luminaire.
- 74.6% efficient two lamp 24W T5HO 2' x 2' luminaire.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-Twin tube T5	40W	SKS2GPK2FT
Air handling	2' x 2'	2-Twin tube T5	40W	SKA2GPK2FT

Example

SKS2GPK2FT

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

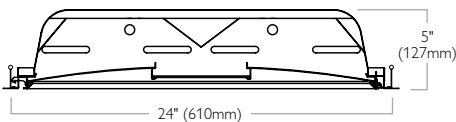
IB

Ballast
See page 4.31

A

Options
See page 4.31
and page 4.130

SKS2GPK224UNVPG



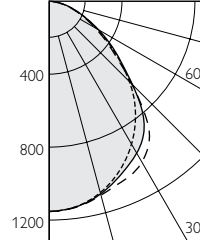
Reference data

Efficiency	74.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	51.3W
Ballast factor	1.0

Candlepower Curve



Options & accessories page 4.130

Ballast type	<10THD	<20THD
Electronic T5 program start	PG	–
Electronic TT5 40W	PR*	–
Electronic TT5 40W	IB	SB
Electronic TT5 50W	BP	–
Electronic TT5 55W	BF	–
Electronic T5 14W bi-level step ballast (2 lamp)	VY	–
DALI Ballast	DA	–

* Program start.

DALI = digital addressable dimming

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	SKS2GPK214
		2-T5HO	24W	SKS2GPK224
		3-T5HO	24W	SKS2GPK324
Air handling	2' x 2'	2-T5	14W	SKA2GPK214
		2-T5HO	24W	SKA2GPK224
		3-T5HO	24W	SKA2GPK324

Example

SKS2GPK224

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.31

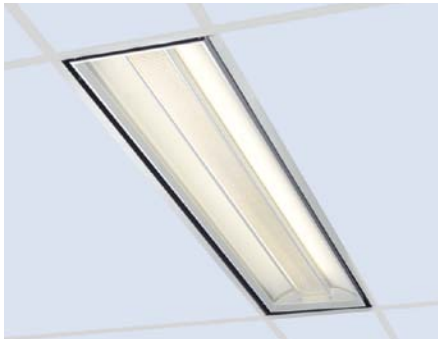
A

Options
See page 4.31
and page 4.130

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Skyway T5 1' x 4'

Premium specification recessed air handling or static luminaires

Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a regressed extruded aluminum frame with spring loaded latches. These 85% light transmission lenses, coupled with an internal reflector system coated with our 95% reflective white paint, creates our new, energy efficient Skyway.

Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 64.7% efficient two lamp 28W T5 1' x 4' luminaire.
- 4" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Options & accessories page 4.130

Ballast type	<10THD
Electronic T5 program start	PG
Electronic T5 28W instant start	WA *†
Electronic T5 28W bi-level step ballast (2 lamp)	VY
DALI Ballast	DA

* Ballast (**WA**) only available in 120 or 277 volt.

† 56 Input watts 0.93 B.F.

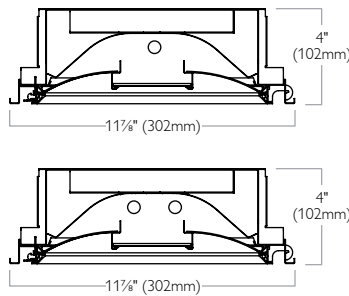
DALI = digital addressable dimming

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

SKS1GPK228UNVPG



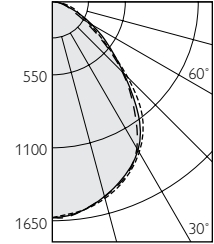
Reference data

Efficiency	64.7%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	59.0W
Ballast factor	1

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	1' x 4'	1-T5	28W	SKS1GPK128
		2-T5	28W	SKS1GPK228
		1-T5HO	54W	SKS1GPK154
		2-T5HO	54W	SKS1GPK254
Air handling	1' x 4'	1-T5	28W	SKA1GPK128
		2-T5	28W	SKA1GPK228
		1-T5HO	54W	SKA1GPK154
		2-T5HO	54W	SKA1GPK254

Example

SKS1GPK228

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

PG

Ballast
See page 4.32

A

Options
See page 4.32
and page 4.130

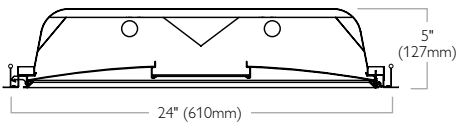
Skyway T8 2' x 4'

Premium specification recessed air handling or static luminaires

Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a regressed extruded aluminum frame with spring loaded latches. These 85% light transmission lenses, coupled with an internal reflector system coated with our 95% reflective white paint, creates our new, energy efficient Skyway.



SKS2GPK232UNVC5



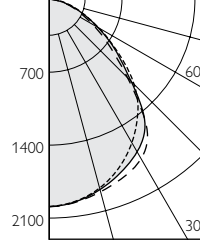
Reference data

Efficiency	75.3%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	51.9W
Ballast factor	0.77

Candlepower Curve



Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 75.3% efficient two lamp 32W T8 2' x 4' luminaire.
- 75.4% efficient three lamp 32W T8 2' x 4' luminaire.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	SKS2GPK232
Air handling	2' x 4'	2-T8	32W	SKA2GPK232

Example

SKS2GPK232

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

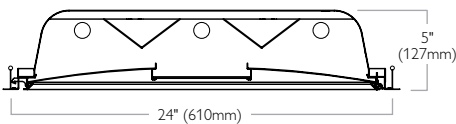
C5

Ballast
See page 4.33

A

Options
See page 4.33
and page 4.130

SKS2GPK332UNVH3



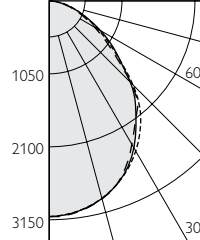
Reference data

Efficiency	75.4%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	87W
Ballast factor	0.88

Candlepower Curve



Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI, P2**	SO*
1 - 3 Lamp T8	H3*, P3**	O3*
Electronic T5	PG	–
Advance Optanium low watt.77 Electronic T8	C5*	–

* Instant start.

** Program start.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	3-T8	32W	SKS2GPK332
Air handling	2' x 4'	3-T8	32W	SKA2GPK332

Example

SKS2GPK332

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

H3

Ballast
See page 4.33

A

Options
See page 4.33
and page 4.130



Skyway T8 2' x 2'

Premium specification recessed air handling or static luminaires

Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a recessed extruded aluminum frame with spring loaded latches. These 85% light transmission lenses, coupled with an internal reflector system coated with our 95% reflective white paint, creates our new, energy efficient Skyway.

Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 70.7% efficient two Lamp 17W T8 2' x 2' luminaire.
- 72.9% efficient three Lamp 17W T8 2' x 2' luminaire.
- 5" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*

* Instant start.
** Program start.

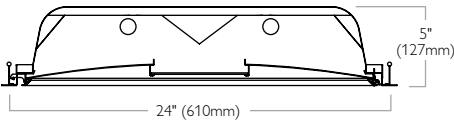
Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

SKS2GPK217UNVHI



Reference data

Efficiency 70.7%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 31.7W
Ballast factor 0.83

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T8	17W	SKS2GPK217
Air handling	2' x 2'	2-T8	17W	SKA2GPK217

Example

SKS2GPK217

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

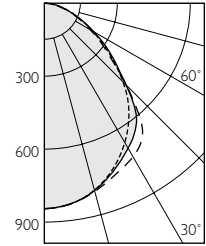
HI

Ballast
See page 4.34

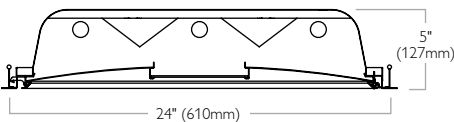
A

Options
See page 4.34
and page 4.130

Candlepower Curve



SKS2GPK317UNVH3



Reference data

Efficiency 72.9%
Spacing ratio 1.1

Electronic ballast

Input watts (120V) 46.6W
Ballast factor 1.0

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	3-T8	17W	SKS2GPK317
Air handling	2' x 2'	3-T8	17W	SKA2GPK317

Example

SKS2GPK317

Skyway
Triple lens design
Air handling or static

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

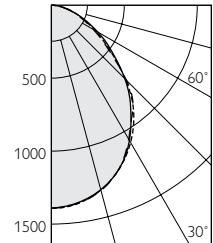
H3

Ballast
See page 4.34

A

Options
See page 4.34
and page 4.130

Candlepower Curve



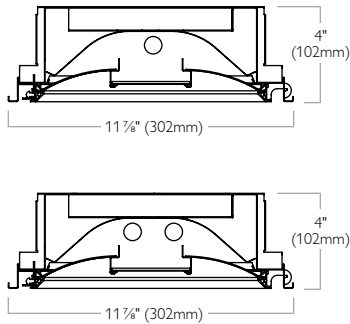
Skyway T8 1' x 4'

Premium specification recessed air handling or static luminaires

Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a regressed extruded aluminum frame with spring loaded latches. These 85% light transmission lenses, coupled with an internal reflector system coated with our 95% reflective white paint, creates our new, energy efficient Skyway.



SKS1GPK232UNVHI



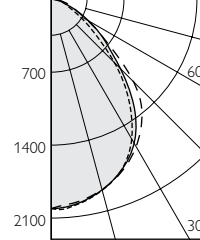
Reference data

Efficiency	66.4%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	49.6W
Ballast factor	0.77

Candlepower Curve



Features

- Aesthetically pleasing triple lens design.
- Curved high light transmission frost white acrylic side lenses.
- Clear acrylic conical prismatic center lens.
- Internal reflector coated with 95% reflective white paint.
- 66.4% efficient two lamp 32W T8 1' x 4' luminaire.
- 4" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Eyeleted heat removal vents in fixture ends.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 4'	1-T8	32W	SKS1GPK132
		2-T8		SKS1GPK232
Air handling	1' x 4'	1-T8	32W	SKA1GPK132
		2-T8		SKA1GPK232

Example

SKS1GPK232

Skyway

Triple lens design
Air handling or static

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast

See page 4.35

A

Options

See page 4.35
and page 4.130

Options & accessories page 4.130

Ballast type	<10THD	<20THD
Electronic T8 (1 or 2 lamp)	HI*	SO*
Electronic T8 (1 or 2 lamp)	P2**	–
LOL Dimming T8	PS	–
Electronic T8 32W bi-level step ballast (2 lamp)	V2	–
DALI Ballast	DA	–

* Instant start. Standard

** Program start.

DALI = digital addressable dimming

Other dimming options consult factory.

Note: For **T8 UNV**, you must use **HI** Ballast Code.

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Electrical wiring options: Consult factory.
For motion or light sensor see folio **OA20-10**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Aletta louver shield T8 & T5 2' x 4' & 2' x 2'

Direct/indirect recessed static luminaires

This family of recessed luminaires features a gently concaved diffuser that provides balanced luminosity, combined with distinctive and elegant architectural detailing.

Features

- 66.2% efficient two lamp 32W T8 2' x 4' luminaire.
- 68.6% efficient two lamp 28W T5 2' x 4' luminaire.
- 63.7% efficient two lamp 17W T8 2' x 2' luminaire.
- 62.1% efficient two lamp 24W T5HO 2' x 2' luminaire.
- Housing is black baked polyester enamel die-formed code gauge cold rolled steel. 20 gauge available for NYC.
- The lens assembly is made from extruded 100% DR Frost acrylic. Spring latch lens hinges, left and right sides independently, downward into the room cavity.
- The center panel louver is high purity Semi-Specular; 2-3/4" (6.99cm) opening x 1-3/8" (3.49cm) deep on 2" (5.08cm) centers with micro-prismatic side overlays.
- 95% reflective white powder painted performance kick reflector.
- Extruded aluminum trim, painted white, interfaces with ceiling grid or plaster frame (by others).

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

* Instant start.
** Program start.

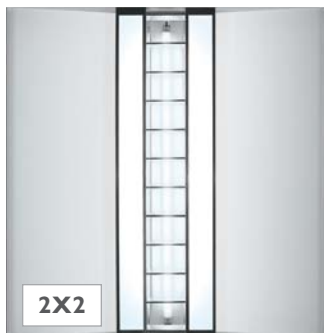
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

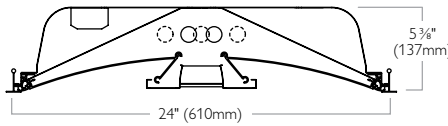
Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Aletta is a unique soft lighting coffer



Whether used in office, conference, classroom or public areas, Aletta is truly easy on the eyes: comfortable lighting to see by and beautiful lighting to look at.

ALS2GUL232UNVHI



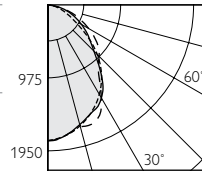
Reference data

Efficiency	66.2%
Spacing ratio	1.2

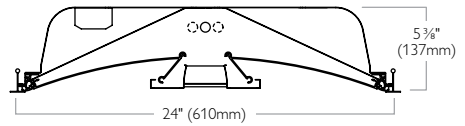
Electronic ballast

Input watts (120V)	59.0W
Ballast factor	0.88

Candlepower Curve



ALS2GUL228UNVPG



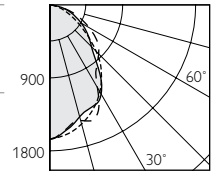
Reference data

Efficiency	68.6%
Spacing ratio	1.1

Electronic ballast

Input watts (120V)	61.6W
Ballast factor	1.03

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	ALS2GUL232
		3-T8	32W	ALS2GUL332
		2-T5	28W	ALS2GUL228
		3-T5	28W	ALS2GUL328
		2-T5HO	54W	ALS2GUL254
		1-T5HO	54W	ALS2GUL154

Example **ALS2GUL232** **UNV** **HI** **A**

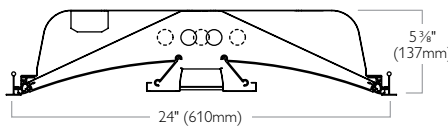
Aletta
Direct/indirect recessed
Static panel w/elongated lens

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

Ballast
See page 4.36

Options
See page 4.36
and page 4.130

ALS2GUL217UNVHI



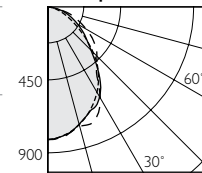
Reference data

Efficiency	63.7%
Spacing ratio	1.2

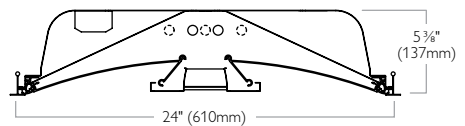
Electronic ballast

Input watts (120V)	31.4W
Ballast factor	0.93

Candlepower Curve



ALS2GUL224UNVPG



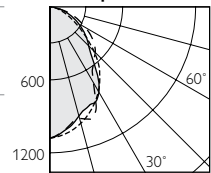
Reference data

Efficiency	62.1%
Spacing ratio	1.1

Electronic ballast

Input watts (120V)	47.7W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	ALS2GUL214
		3-T5	14W	ALS2GUL314
		2-T8	17W	ALS2GUL217
		3-T8	17W	ALS2GUL317
		2-T5HO	24W	ALS2GUL224
		3-T5HO	24W	ALS2GUL324

Example **ALS2GUL224** **UNV** **PG** **A**

Aletta
Direct/indirect recessed
Static panel w/elongated lens

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

Ballast
See page 4.36

Options
See page 4.36
and page 4.130

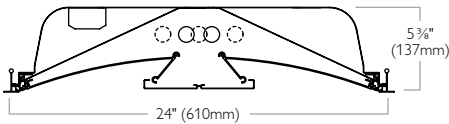
Aletta panel shield T8 & T5 2' x 4' & 2' x 2'

Direct/indirect recessed static luminaires

This family of recessed luminaires features a gently concaved diffuser that provides balanced luminosity, combined with distinctive and elegant architectural detailing.



ALS2GUP232UNVHI



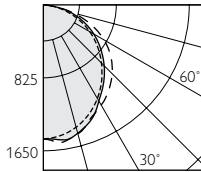
Reference data

Efficiency	69.8%
Spacing ratio	1.3

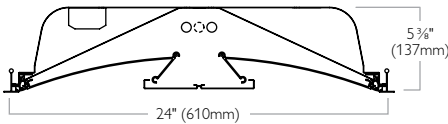
Electronic ballast

Input watts (120V)	59.0W
Ballast factor	0.88

Candlepower Curve



ALS2GUP228UNVPG



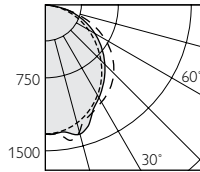
Reference data

Efficiency	73.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	61.7W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	ALS2GUP232
		3-T8	32W	ALS2GUP332
		2-T5	28W	ALS2GUP228
		3-T5	28W	ALS2GUP328
		2-T5HO	54W	ALS2GUP254
		1-T5HO	54W	ALS2GUP154

Example **ALS2GUP232** **UNV** **HI** **A**

Aletta
Direct/indirect recessed
Static panel w/elongated lens

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI
Ballast
See page 4.37

A
Options
See page 4.37
and page 4.130

Features

- 69.8% efficient two lamp 32W T8 2' x 4' luminaire.
- 73.6% efficient two lamp 28WT5 2' x 4' luminaire.
- 68.4% efficient two lamp 17W T8 2' x 2' luminaire.
- 66.8% efficient two lamp 24W T5HO 2' x 2' luminaire.
- Housing is black baked polyester enamel die-formed code gauge cold rolled steel. 20 gauge available for NYC.
- The lens assembly is made from extruded 100% DR Frost acrylic. Spring latch lens hinges, left and right sides independently, downward into the room cavity.
- Center Panel is constructed with 24 gauge powder painted CRS with linear micro-prismatic lens overlays. Elongated lens openings are 21-1/2" (54.61cm) windows.
- 95% reflective white powder painted performance kick reflector.
- Extruded aluminum trim, painted white, interfaces with ceiling grid or plaster frame (by others).

Options & accessories page 4.130

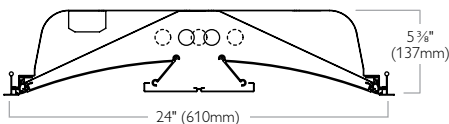
Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

* Instant start.

** Program start.

ALS2GUP217UNVHI



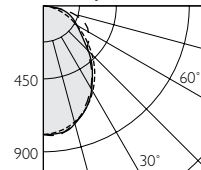
Reference data

Efficiency	68.4%
Spacing ratio	1.1

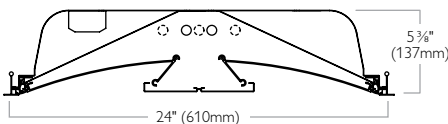
Electronic ballast

Input watts (120V)	31.2W
Ballast factor	0.93

Candlepower Curve



ALS2GUP224UNVPG



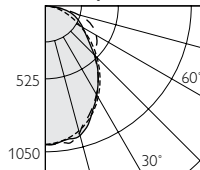
Reference data

Efficiency	66.8%
Spacing ratio	1.1

Electronic ballast

Input watts (120V)	47.5W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	ALS2GUP214
		3-T5	14W	ALS2GUP314
		2-T8	17W	ALS2GUP217
		3-T8	17W	ALS2GUP317
		2-T5HO	24W	ALS2GUP224
		3-T5HO	24W	ALS2GUP324

Example **ALS2GUP217** **UNV** **HI** **A**

Aletta
Direct/indirect recessed
Static panel w/elongated lens

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI
Ballast
See page 4.37

A
Options
See page 4.37
and page 4.130

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Aletta is a unique soft lighting coffer



Whether used in office, conference, classroom or public areas, Aletta is truly easy on the eyes: comfortable lighting to see by and beautiful lighting to look at.



Alter high efficiency 2' x 4'

Direct/indirect recessed static luminaires

With its balanced brightness and high-lumen package capable of accommodating up to 3 linear T8, T5 or 4 TT5 lamps, the Alter High Efficiency 2' x 4' delivers superior luminous efficacy that is perfect for wide open spaces, including workplaces with no or low partitions. This common-dimension luminaire is optically designed to create cost-effective specification-ready soft lighting for popular ceiling grids.

Features

- 75.7% efficient two lamp 28W T5 2' x 4' luminaire.
- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp image providing balance between reflected and direct light.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish and specular interior reflector.
- 5 1/2" deep one-piece body for easy installation.
- Swing-down microperforated lamp shields for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Luminaire can be row mounted

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
T8	HI	T8	PS
3 LPB T8	H3		
T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

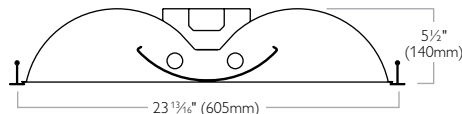
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QHE2GPFOP232UNVHI

2' x 4' Microperforated mesh lamp shields, 2-lamp 32W T8

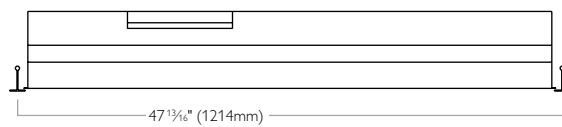


Reference data

Efficiency	70.3%
Spacing ratio	1.3

Electronic ballast

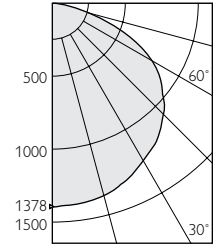
Input watts (120V)	62.0W
Ballast factor	0.88



RCR C.U.

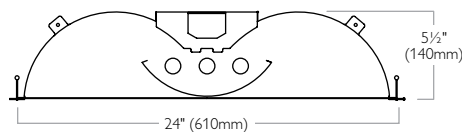
1	74
3	57
5	45
7	36
9	29

Candlepower Curve



QHE2GPFOP332UNVH3

2' x 4' Microperforated mesh lamp shields, 3-lamp 32W T8

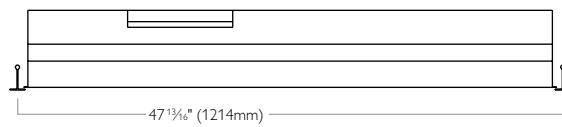


Reference data

Efficiency	64.3%
Spacing ratio	1.3

Electronic ballast

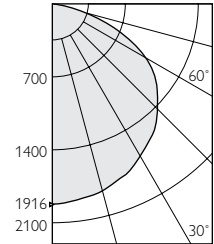
Input watts (120V)	85.0W
Ballast factor	0.88



RCR C.U.

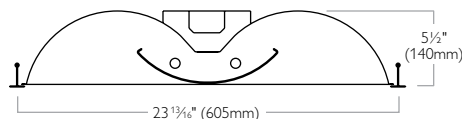
1	67
3	52
5	41
7	33
9	27

Candlepower Curve



QHE2GPFOP228UNVPG

2' x 4' Microperforated mesh lamp shields, 2-lamp 28W T5

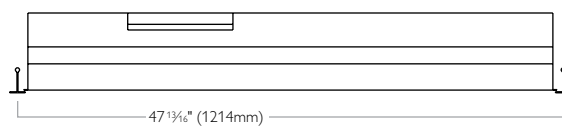


Reference data

Efficiency	75.7%
Spacing ratio	1.3

Electronic ballast

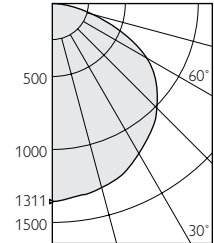
Input watts (120V)	65.0W
Ballast factor	0.88



RCR C.U.

1	79
3	61
5	48
7	38
9	31

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	QHE2GPFOP228
		2-T5HO	54W	QHE2GPFOP254
		3-T5	28W	QHE2GPFOP328
		3-T5HO	54W	QHE2GPFOP354
		2-T8	32W	QHE2GPFOP232
		3-T8	32W	QHE2GPFOP332
		4-TT5	40, 50, 55W	QHE2GPFOP4FT

Example

QHE2GPFOP232

Alter High Efficiency
Direct/indirect recessed
w/microperforated mesh
lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

HI

Ballast
See page 4.38

Options

See page 4.38
and page 4.72

Alter high efficiency 2' x 2'

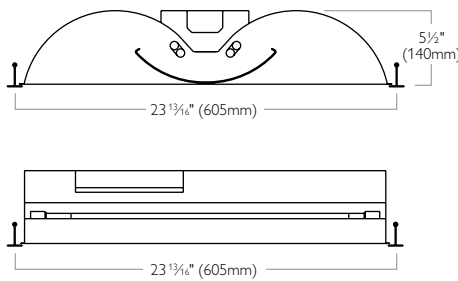
Direct/indirect recessed static luminaires

The compact architectural styling of Alter High Efficiency 2' x 2' provides shadowless balanced brightness combined with increased light efficacy in keeping with specification requirements. Designed for popular 2' x 2' grids, this luminaire allows more flexible, more symmetrical luminaire arrangements. It is suited to most environments, especially private offices where wide distribution, uniformly lit walls and low power densities are important considerations.



QHE2GPFOP2FTUNVIB

2' x 2' Microperforated mesh lamp shields, 2-lamp 40W TT5



Reference data

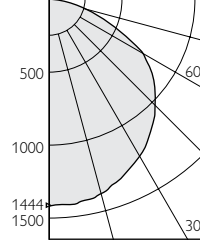
Efficiency	66.3%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	65.2W
Ballast factor	0.88

RCR	C.U.
1	70
3	54
5	44
7	35
9	26

Candlepower Curve

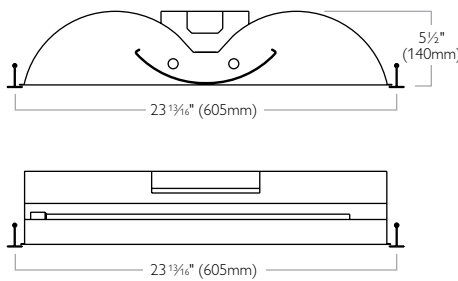


Features

- 69% efficient two lamp 24W T5HO 2' x 2' luminaire.
- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp and provides a balance between reflected and direct light.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish.
- 5 1/2" deep, one-piece body for easy installation.
- Swing-down lamp shield for easy relamping.
- Easy access to ballast through lamp compartment.
- Luminaire can be row mounted

QHE2GPFOP217UNVHI

2' x 2' Microperforated mesh lamp shields, 2-lamp 17W T8



Reference data

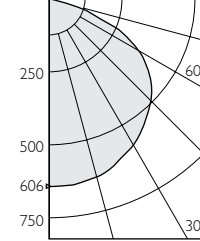
Efficiency	64.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	74.0W
Ballast factor	0.88

RCR	C.U.
1	68
3	53
5	41
7	33
9	27

Candlepower Curve



Options & accessories page 4.72 + 4.130

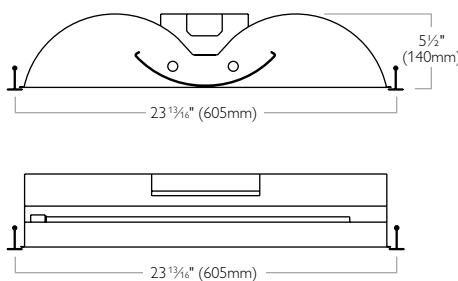
Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8	PS
T8	HI		
3 LPB T8	H3		
T5	PG		

QHE2GPFOP224UNVPG

2' x 2' Microperforated mesh lamp shields, 2-lamp 24W T5



Reference data

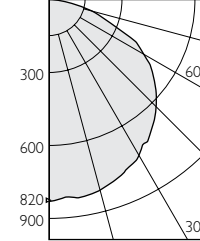
Efficiency	68.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	51.0W
Ballast factor	0.88

RCR	C.U.
1	72
3	56
5	44
7	35
9	28

Candlepower Curve



LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	1-TT5	40, 50, 55W	QHE2GPFOP1FT
		2-TT5	40, 50, 55W	QHE2GPFOP2FT
		2-T8	17W	QHE2GPFOP217
		3-T8	17W	QHE2GPFOP317
		2-T5HO	24W	QHE2GPFOP224
		3-T5HO	24W	QHE2GPFOP324

Example **QHE2GPFOP232**

Alter High Efficiency
Direct/indirect recessed w/microperforated mesh lamp shields

UNV
Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB
Ballast
See page 4.39

Options
See page 4.39 and page 4.72



Alter high efficiency 1' x 4'

Direct/indirect recessed static luminaires

The Alter High Efficiency 1' x 4' brings together excellent power-density value, architectural styling and Alter's characteristic low, balanced brightness glow producing a soft awareness of the lighting element. Its linear appearance suggests movement, making it ideally suited for specification in corridors and circulation areas.

Features

- 65% efficient two lamp 28W T5 1' x 4' luminaire.
- Even, shadowless lighting reduces veiling reflections.
- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp image providing a balance between reflected and direct light.
- 95% reflective Alter soft white paint finish.
- Swing-down lamp shields for easy relamping. Easy access to ballast through removable back reflector compartment.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- Can be row mounted

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
T8	HI	T5	PF
T5	PG	T8	PS

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

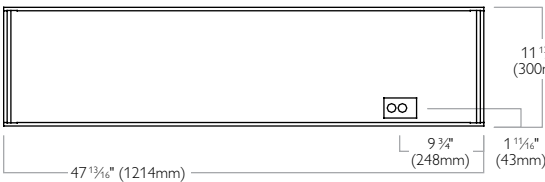
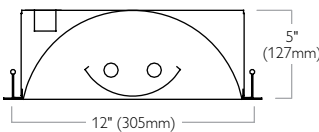
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QHE1GPFOP232UNVHI

1' x 4' Microperforated mesh lamp shields, 2-lamp 32W T8



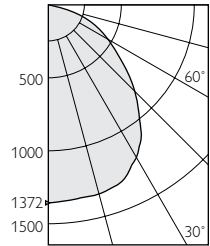
Reference data

Efficiency	62.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.5W
Ballast factor	0.88

Candlepower Curve

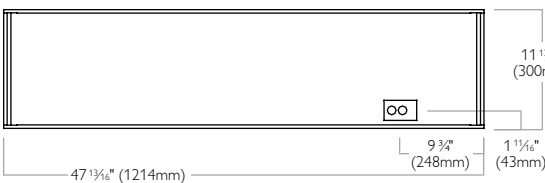
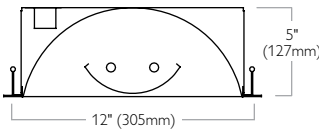


RCR C.U.

1	66
3	52
5	41
7	33
9	25

QHE1GPFOP228UNVPG

1' x 4' Microperforated mesh lamp shields, 2-lamp 28W T5



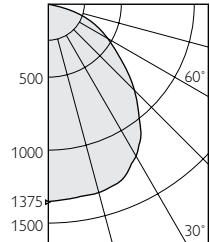
Reference data

Efficiency	65.0%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	65.0W
Ballast factor	0.88

Candlepower Curve



RCR C.U.

1	68
3	54
5	43
7	35
9	27

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 4'	1-T5	28W	QHE1GPFOP128
		1-T5HO	54W	QHE1GPFOP154
		2-T5	28W	QHE1GPFOP228
		2-T5HO	54W	QHE1GPFOP254
		2-T8	32W	QHE1GPFOP232

Example **QHE1GPFOP232**

Alter High Efficiency
Direct/indirect recessed w/microperforated mesh lamp shields

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI
Ballast
See page 4.40

Options
See page 4.40 and page 4.72

Alter classic 2' x 4'

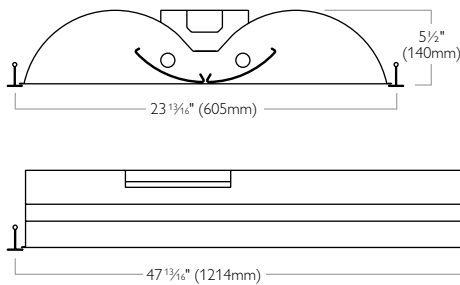
Direct/indirect air handling or static recessed luminaires

Functionality with crisp clean lines describes the 2' x 4' Alter luminaire. Using very popular T5, T8 and TT5 lamp technology, it offers the perfect lighting solution for spaces where larger ceiling grids are used. This luminaire provides visual interest, soft balanced brightness and is well suited for larger open spaces. When installed in continuous rows this luminaire can also create a very clean cove-like appearance.



QVS2GPFOS232UNVHI

2' x 4' Microperforated mesh lamp shields (static), 2-lamp 32W T8



Reference data

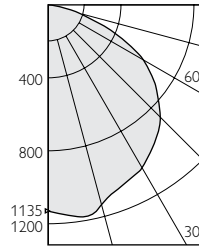
Efficiency	56.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	62.0W
Ballast factor	0.88

RCR	C.U.
1	60
3	46
5	37
7	29
9	24

Candlepower Curve

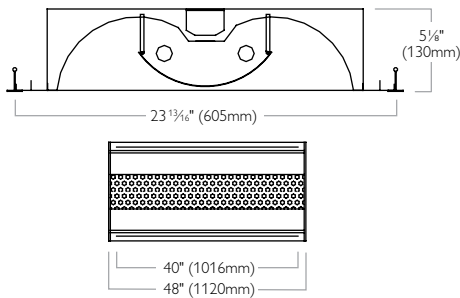


Features

- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp image providing balance between reflected and direct light.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish and specular interior reflector.
- 5 1/2" deep one-piece body for easy installation.
- Swing-down microperforated lamp shields for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Fully recessed luminaire and lamp compartment.
- Luminaire can be row mounted (not applicable with the air handling option)

QVA2GPFOP232UNVHI

2' x 4' Microperforated mesh lamp shields (air handling), 2-lamp 32W T8



Reference data

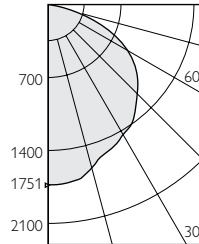
Efficiency	49.2%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	62.0W
Ballast factor	0.88

RCR	C.U.
1	52
3	41
5	32
7	26
9	19

Candlepower Curve



Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
T8	HI	T8	PS
3 LPB T8	H3		
Program start T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

For QVA see below for ordering instructions

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	QVS2GPFOS228
		2-T5HO	54W	QVS2GPFOS254
		3-T5	28W	QVS2GPFOS328
		3-T5HO	54W	QVS2GPFOS354
		2-T8	32W	QVS2GPFOS232
		3-T8	32W	QVS2GPFOS332
		4-TT5	40, 50, 55W	QVS2GPFOS4FT

Example

QVS2GPFOS232

Alter Classic
Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.41

Options

See page 4.41 and page 4.72



One-piece lamp shield

Replace **OS** in the ordering info by **OP**. **OS** Static only.



Air handling

Replace **QVS** in the ordering info by **QVA** and **OS** to **OP**.
N/A for 1' x 4'.

Clear Acrylic Plate Drop Down Element

Clear polished acrylic drop-down visual element with projected color face. Substitute acrylic color suffix in place of open slot only.

Suffix: **GC** (clear) **GB** (blue)
GG (green) **GR** (red)

e.g. QVS2GPFOS (**OS** = Open Slot)
e.g. QVS2GPFGB (**GB** = Blue Acrylic)

For other colors or special orders, consult your Philips Lightolier representative.



Alter classic 2' x 2'

Direct/indirect air handling or static recessed luminaires

Architectural styling combined with visually exciting elements can provide shadowless balanced brightness. Low brightness glow provides the occupant with a soft awareness of the lighting element, while increasing depth perception and sense of orientation within the space. These luminaires offer a good lighting solution for open circulation for a distinctive appearance.

Features

- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp and provides a balance between reflected and direct light.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding. Specular interior reflector with solid lamp shield only.
- 95% reflective Alter soft white paint finish.
- 5 1/2" deep, one-piece body for easy installation (QVS only).
- Swing-down lamp shield for easy relamping.
- Easy access to ballast through lamp compartment.
- Luminaire can be row mounted (not applicable with the air handling option)

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP		
55W TT5	BF		
T8	HI		
3 LPB T8	H3		
Program start T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

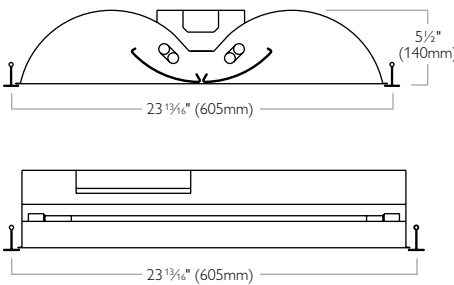
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing), Suffix: **C** (Internal slow-blow fusing).

QVS2GPFOS2FTUNVIB

2' x 2' Microperforated mesh lamp shields (static), 2-lamp 40W TT5



Reference data

Efficiency	58.5%
Spacing ratio	1.3

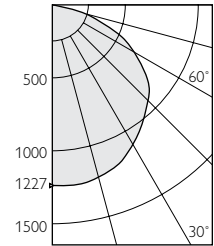
Electronic ballast

Input watts (120V)	74.0W
Ballast factor	0.88

RCR C.U.

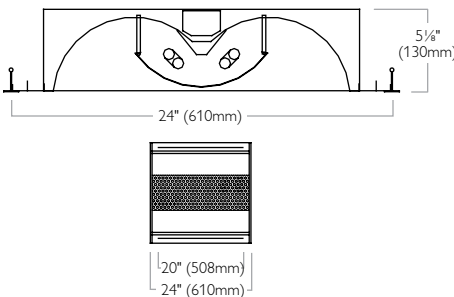
1	61
3	48
5	38
7	30
9	25

Candlepower Curve



QVA2GPFOP2FTUNVIB

2' x 2' Microperforated mesh lamp shields (air handling), 2-lamp 40W TT5



Reference data

Efficiency	50.8%
Spacing ratio	1.4

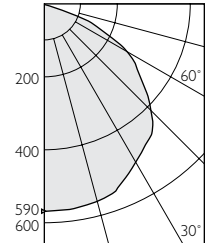
Electronic ballast

Input watts (120V)	74.0W
Ballast factor	0.88

RCR C.U.

1	49
3	38
5	31
7	25
9	18

Candlepower Curve



Ordering information

For QVA see below for ordering instructions

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	1-TT5	40, 50, 55W	QVS2GPFOS1FT
		2-TT5	40, 50, 55W	QVS2GPFOS2FT
		2-T8	17W	QVS2GPFOS217
		3-T8	17W	QVS2GPFOS317
		2-T5HO	24W	QVS2GPFOS224
		3-T5HO	24W	QVS2GPFOS324

Example

QVS2GPFOS2FT

Alter Classic
Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast
See page 4.42

Options

See page 4.42 and page 4.72

Clear acrylic plate drop down element

Clear polished acrylic drop-down visual element with projected color face. Substitute acrylic color suffix in place of open slot only.

Suffix: **GC** (clear) **GB** (blue)
GG (green) **GR** (red)

e.g. QVS2GPFOS (**OS** = Open Slot)
e.g. QVS2GPFGB (**GB** = Blue Acrylic)

For other colors or special orders, consult your Philips Lightolier representative.



One-piece lamp shield

Replace **OS** in the ordering info by **OP.OS** Static only.



Air handling

Replace **QVS** in the ordering info by **QVA** and **OS** to **OP**.
N/A for 1' x 4'.

Alter classic 1' x 4'

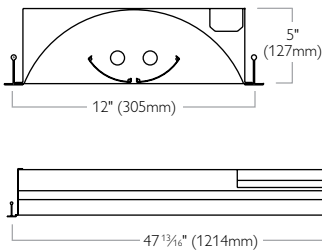
Direct/indirect static recessed luminaires

The Alter 1' x 4' combines architectural styling with visually exciting elements to provide a shadowless balanced brightness. Linear appearance makes this luminaire ideally suited for corridors and circulation areas.



QVS1GPFOS232UNVHI

1' x 4' Microperforated mesh lamp shields, 2-lamp 32W T8



Reference data

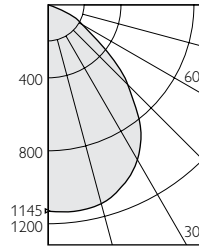
Efficiency	50.0%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	62.0W
Ballast factor	0.88

RCR	C.U.
1	53
3	42
5	33
7	27
9	22

Candlepower Curve

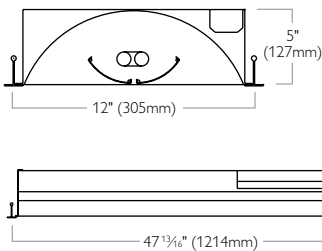


Features

- Even, shadowless lighting reduces veiling reflections.
- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp image providing a balance between reflected and direct light. Not available in air handling.
- 95% reflective Alter soft white paint finish.
- Swing-down lamp shields for easy relamping. Easy access to ballast through removable back reflector compartment.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- Can be row mounted

QVS1GPFOS2FTUNVIB

1' x 4' Microperforated mesh lamp shields, 2-lamp 40W TT5



Reference data

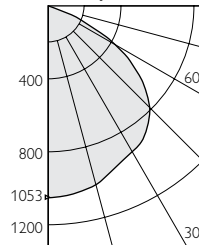
Efficiency	47.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	74.0W
Ballast factor	0.88

RCR	C.U.
1	52
3	41
5	32
7	26
9	19

Candlepower Curve



Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8	PS
T8	HI		
T5	PG		

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Cat. no. Exposed T-grid	Cat. no. Slot or Concealed T
Static	1' x 4'	1-T5	28W	QVS1GPFOS128	QVS1TPFOS128
		1-T5HO	54W	QVS1GPFOS154	QVS1TPFOS154
		2-T5	28W	QVS1GPFOS228	QVS1TPFOS228
		2-T5HO	54W	QVS1GPFOS254	QVS1TPFOS254
		2-T8	32W	QVS1GPFOS232	QVS1TPFOS232
		2-TT5	40, 50, 55W	QVS1GPFOS2FT	QVS1TPFOS2FT

Example

QVS1GPFOS232

Alter Classic
Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.43

Options

See page 4.43 and page 4.72



One-piece lamp shield

Replace **OS** in the ordering info by **OP**.

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Air handling: N/A for 1' x 4' model. Available for Standards, Slot and Concealed.

Clear acrylic plate drop down element

Clear polished acrylic drop-down visual element with projected color face. Substitute acrylic color suffix in place of open slot only.

Suffix: **GC** (clear) **GB** (blue)
GG (green) **GR** (red)

e.g. QVS1GPFOS (**OS** = Open Slot)
e.g. QVS1GPFGB (**GB** = Blue Acrylic)

For other colors or special orders, consult your Philips Lightolier representative.



Alter classic 20" x 48" & 500mm x 48"

Direct/indirect static recessed luminaires

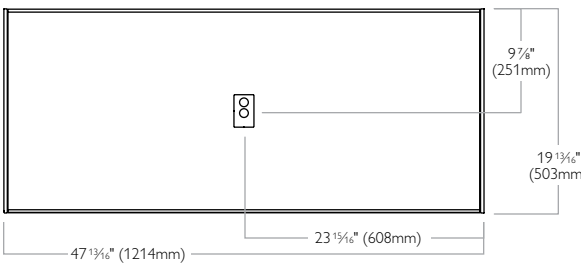
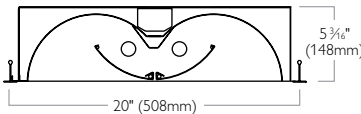
20" x 48" luminaires for 5-foot module ceiling grid (3-part 20" x 60" modules) and metric luminaires.

QVS5GPFOS232UNVHI

20" x 48" Microperforated mesh lamp shields 2-lamp 32W T8

Features

- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp image providing balance between reflected and direct light.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- Air handling version available.
- 95% reflective Alter soft white paint finish and specular interior reflector.
- 5 1/2" deep one-piece body for easy installation.
- Swing-down microperforated lamp shields for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Fully recessed luminaire and lamp compartment.
- Only luminaires of same size can be row mounted



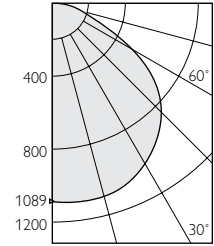
Reference data

Efficiency	53.4%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	56.0W
Ballast factor	0.9

Candlepower Curve



RCR	C.U.
1	59
3	49
5	41
7	35
9	30

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type

Electronic	PowerSpec HDF dimming		
40W TT5	IB	T5	PF
50W TT5	BP	T8	PS
55W TT5	BF		
T8	HI		
3 LPB T8	H3		
T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 20x40 unit: **FK920X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Filler Plate: Sold separately. For 20" x 60" opening with 20" x 48" luminaire: **FPQVS2060**.

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Cat. no. Static	Cat. no. Air handling*
Static	20" x 48"	2-T5	28W	QVS5GPFOS228	QVA5GPFOP228
		2-T5HO	54W	QVS5GPFOS254	QVA5GPFOP254
		3-T5	28W	QVS5GPFOS328	
		3-T5HO	54W	QVS5GPFOS354	
		2-T8	32W	QVS5GPFOS232	QVA5GPFOP232
		3-T8	32W	QVS5GPFOS332	
Static	500mm x 48"	2-T5	28W	QVS5MPFOS228	
		2-T5HO	54W	QVS5MPFOS254	
		3-T5	28W	QVS5MPFOS328	
		3-T5HO	54W	QVS5MPFOS354	
		2-T8	32W	QVS5MPFOS232	
		3-T8	32W	QVS5MPFOS332	

* Only luminaires with one piece lamp shield, shown here, are available for air handling.

Example

QVS5GPFOS232

Alter Classic

Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

HI

Ballast

See page 4.44

Options

See page 4.44 and page 4.72



One-piece lamp shield

Replace **OS** in the ordering info by **OP**. **OS** Static only.

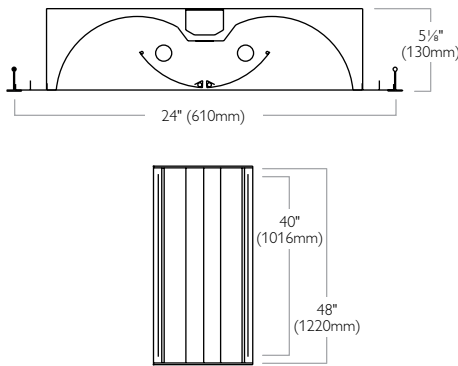
Alter classic air 2' x 4' & 2' x 2'

Direct/indirect recessed luminaires

The compact architectural styling of Alter Classic 2' x 2' provides shadowless balanced brightness. Designed for popular 2' x 2' grids, this luminaire allows more flexible, more symmetrical luminaire arrangements. It is suited to most environments, especially private offices where wide distribution and uniformly light walls are important considerations.

QVA2GPFOP332UNVH3

2' x 4' Solid lamp shields, 3-lamp 32W T8



Reference data

Efficiency	52.2%
Spacing ratio	1.3

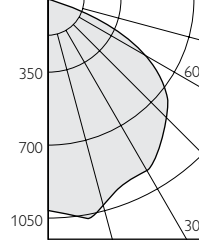
Electronic ballast

Input watts (120V)	84.3W
Ballast factor	0.88

Coefficients of utilization

	RF	20%	RC	80%
RW	70	50	30	
RCR				
1	58	56	54	
3	49	44	40	
5	41	35	30	
7	35	28	23	
10	27	20	16	

Candlepower Curve



Features

- Full-length air slot with right angle stiffener for maximum rigidity and no slot interference.
- Dual swing down solid lamp shields separated by luminous strip for easy relamping and maintenance.
- Fully recessed luminaire and with two separate lamp compartments.
- 95% Reflective Alter soft white paint finish.
- Specular interior reflector.
- One piece body for easy installation.
- Easy access to ballast through lamp compartment.
- Fits standard T-Grid ceilings.
- Optional acrylic drop-down visual element.

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) add as suffix, e.g. **120SB**.

Bal. Type	<10THD	<20THD	PowerSpec HDF Dimming
Electronic			
T5 Linear	PG	–	–
40W TTS	IB	SB	PB
50W TTS	–	BP	–
55W TTS	BF	–	–
T8	HI	SO	PS
3 LPB T8	H3	03	–
DALI Ballast	DA	–	–

LPB = Number of lamps per ballast.

DALI = digital addressable dimming

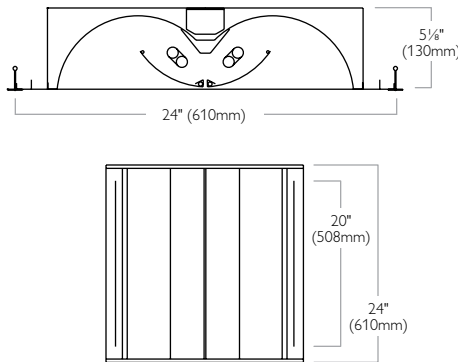
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QVA2GPFOP2FT120SB

2' x 2' Solid lamp shields, 2-lamp 40W TTS



Reference data

Efficiency	50.8%
Spacing ratio	1.3

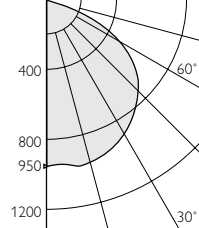
Electronic ballast

Input watts (120V)	64.8W
Ballast factor	0.88

Coefficients of utilization

	RF	20%	RC	80%
RW	70	50	30	
RCR				
1	56	54	52	
3	47	42	39	
5	40	34	30	
7	34	27	23	
10	27	21	16	

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	QVA2GPFOP232
		3-T8	32W	QVA2GPFOP332
		2-T5	28W	QVA2GPFOP228
		3-T5	28W	QVA2GPFOP328
		Air supply or Air return	2-T5	54W
Static	2' x 2'	3-T5	54W	QVA2GPFOP354
		4-TT5	40, 50, 55W	QVA2GPFOP4FT
		1-TT5	40, 50W	QVA2GPFOP1FT
		2-TT5	40, 50W	QVA2GPFOP2FT
		Air supply or Air return	2-T8	17W
Air supply or Air return	2' x 2'	3-T8	17W	QVA2GPFOP317
		2-T5	24W	QVA2GPFOP224
		3-T5	24W	QVA2GPFOP324

Example **QVA2GPFOP2FT** **120** **SB** **Options**

Alter Classic Air
Direct/indirect recessed
w/one piece lamp shield

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.45

Options
See page 4.45
and page 4.72



Alter classic wall

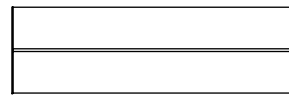
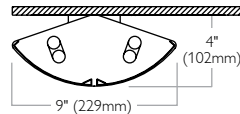
9" x 12", 9" x 24" & 9" x 48"

Direct/indirect sconce luminaires

This simple and clean design can create beautiful slim rows of perforated soft light or add a splash of light in a small space. Two high lumen TT5 Bi-Tube or 2 T8 lamps can provide high illumination levels when used in public spaces. (Luminaire not for through wiring).

QVW8SPFOS2FTUNVIB

Surface sconce microperforated mesh lamp shields, 2-lamp 40W TT5



12" (305mm) - 24" (610mm) - 48" (1220mm)

Reference data

Efficiency	69.7%
Spacing ratio	1.3

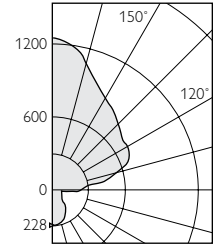
Electronic ballast

Input watts (120V)	68.4W
Ballast factor	0.88

RCR C.U.

1	60
3	46
5	36
7	29
10	21

Candlepower Curve



Features

- Microperforated Mesh Lamp Shields provide a soft awareness of the light source.
- Alter soft white film on inside of microperforated Mesh Lamp Shields conceal lamp image providing balance between reflected and direct light.
- 4" deep, meets ADA when wall mounted.
- All luminaire surfaces have the same visual appearance.
- 95% reflective Alter soft white paint finish.
- One-piece body for easy installation.
- Swing open lamp shields for easy relamping.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	9" x 12"	2-TT5	18W	QVW8SPFOS218
	9" x 24"	2-TT5	40, 50, 55W	QVW8SPFOS2FT
	9" x 48"	2-T8	32W	QVW8SPFOS232

Example

QVW8SPFOS2FT

Alter Classic Wall
Direct/indirect Sconce
w/microperforated mesh
lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast
See page 4.46

Options

See page 4.46
and page 4.72

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type

Electronic		PowerSpec HDF dimming	
18W TT5	BA	40W TT5	PB
40W TT5	IB	T8	PS
50W TT5	BP		
55W TT5	BF		
T8	HI		

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Alter Wal-Lyter 1' x 2' & 1' x 4'

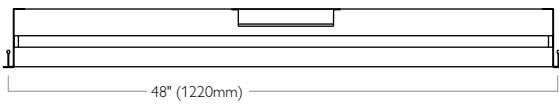
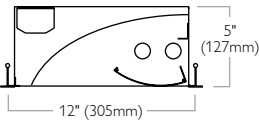
Direct/indirect luminaires

This recessed wall washer features smooth-flowing curves and a unique design that incorporates a single lateral lamp and reflector. The result is an asymmetrical light distribution that creates a soft glow and projects additional uniform light onto the wall. Style-matched with Alter full basket design.



QVS1GPFAD232UNVHI

1' x 4' Asymmetrical distribution microperforated mesh lamp shields, 2-lamp 32W T8



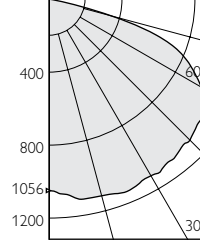
Reference data

Efficiency 56.1%

Electronic ballast

Input watts (120V) 56.7W
Ballast factor 0.88

Candlepower Curve



RCR	C.U.
1	58
3	44
5	34
7	28
10	21

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	1' x 2'	2-T8	17W	QVS1GPFAD217
		2-TT5	40, 50, 55W	QVS1GPFAD2FT
		1-T5	28W	QVS1GPFAD128
Static	1' x 4'	1-T5HO	54W	QVS1GPFAD154
		2-T5	28W	QVS1GPFAD228
		2-T5HO	54W	QVS1GPFAD254
		1-T8	32W	QVS1GPFAD132
		2-T8	32W	QVS1GPFAD232

Example

QVS1GPFAD232

Alter Wal-Lyter
Direct/indirect asymmetrical distribution w/microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.47

Options

See page 4.47 and page 4.72

Features

- Microperforated Mesh Lamp Shields provides soft awareness of the light source.
- Swing-down lamp shield for easy relamping.
- Asymmetrical optical system provides a soft uniform wall wash

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8	PS
T8	HI		
T5	PG		

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Alter louver 2' x 4' & 2' x 2'

Direct/indirect recessed static luminaires

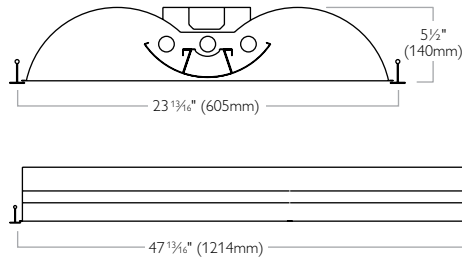
The Alter Louver luminaire is designed for areas requiring higher light levels. The flat blade perforated louver provides a soft glow shielding. A lens overlay prevents direct view of the lamp source.

QVS2GPFLW332UNVH3

2' x 4' Microperforated mesh white lamp shields/white solid blades, 3-lamp 32W T8

Features

- Flat blade louver lens overlay lamp shield and perforated curved side lamp shield.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish.
- 5 1/2" deep, one-piece body for easy installation.
- Swing-down lamp shield for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid ceilings and drywall ceilings (see page 4.218).
- Luminaire can be row mounted



Reference data

Efficiency	56.7%
Spacing ratio	1.5

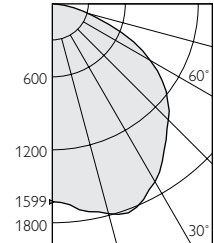
Electronic ballast

Input watts (120V)	88.6W
Ballast factor	0.88

RCR C.U.

1	60
3	47
5	37
7	29
10	21

Candlepower Curve



Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8	PS
3 LPB 40W TT5	I3		
T8	HI		
3 LPB T8	H3		
Program start T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.
Conversion kit for 2' x 4' unit: **FK92X4**.

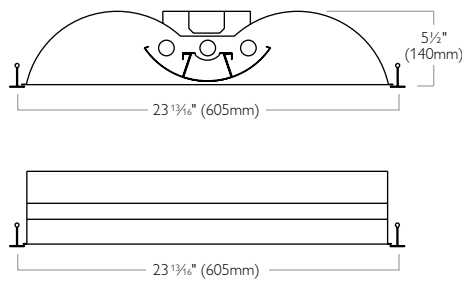
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QVS2GPFLW317UNVH3

2' x 2' Microperforated mesh white lamp shields/white solid blades, 3-lamp 17W T8



Reference data

Efficiency	55.4%
Spacing ratio	1.4

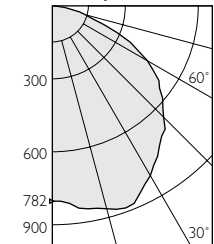
Electronic ballast

Input watts (120V)	50.1W
Ballast factor	0.88

RCR C.U.

1	59
3	46
5	36
7	29
10	21

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	QVS2GPFLW232
		3-T8	32W	QVS2GPFLW332
		2-T5	28W	QVS2GPFLW228
		3-T5	28W	QVS2GPFLW328
		2-T5HO	54W	QVS2GPFLW254
		3-T5HO	54W	QVS2GPFLW354
Static	2' x 2'	2-TT5	40, 50, 55W	QVS2GPFLW2FT
		3-TT5	40, 50, 55W	QVS2GPFLW3FT
		2-T8	17W	QVS2GPFLW217
		3-T8	17W	QVS2GPFLW317
		2-T5HO	24W	QVS2GPFLW224
		3-T5HO	24W	QVS2GPFLW324

Example

QVS2GPFLW332

Alter Louver

Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

H3

Ballast

See page 4.48

Options

See page 4.48 and page 4.72



White solid blade

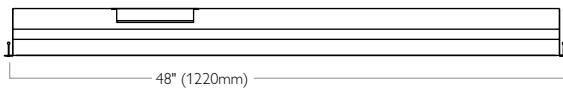
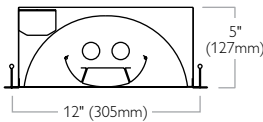
Alter louver 1' x 4'

Direct/indirect recessed static luminaires

The Alter Louver luminaire is designed for areas requiring higher light levels. The flat blade perforated louver provides a soft glow shielding. A lens overlay prevents direct view of the lamp source.



QVS1GPFLG232UNVHI 1' x 4' Microperforated mesh white lamp shields/grey solid louver blades, 2-lamp 32W T8



Reference data

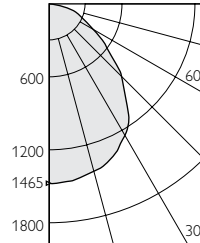
Efficiency	59.8%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	50.1W
Ballast factor	0.88

RCR	C.U.
1	64
3	51
5	41
7	33
10	24

Candlepower Curve



Features

- Flat blade louver lens overlay lamp shield and perforated curved side lamp shield.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish.
- 5 1/2" deep, one-piece body for easy installation.
- Swing-down lamp shield for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid ceilings and drywall ceilings (see page 4.218).
- Luminaire can be row mounted

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	1' x 4'	2-T8	32W	QVS1GPFLW232
		2-T5	28W	QVS1GPFLW228
		2-T5HO	54W	QVS1GPFLW254

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Example

QVS2GPFLV332

Alter Louver
Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

H3

Ballast
See page 4.49

Options

See page 4.49 and page 4.72

Ballast type

Electronic		PowerSpec HDF dimming	
T8	HI	T5	PF
3 LPB T8	H3	T8	PS
Program start T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



White solid blade



Alter Metalyte 2' x 4' & 2' x 2'

Direct/indirect recessed static luminaires

Sporting a modern look for modern decors, Alter Metalyte emit surprisingly soft light and a uniform, low-level luminance. Once illuminated the reflector and mesh lamp shields appear bathed in the same uniform brightness. The mixture of direct lighting and backlighting provides a mitigated yet stunning effect. These luminaires blend in particularly well with interiors featuring metallic elements.

Features

- Seamless semi-specular metallic reflector with lengthwise ridges.
- Available one-piece mesh lamp shields with no slot.
- Optional drop-down visual element comes in various colors (see page 4.72).
- Suited to row mounting for a continuous cove effect

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

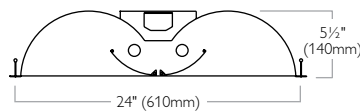
Electronic		PowerSpec	HDF dimming
40W TT5	IB	40W TT5	PB
50W TT5	BP	T8 (32W only)	PS
55W TT5	BF	IGEN DALI	DA
T8	HI		
3 LPB T8	H3		
T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

QVS2GPTOS232UNVHI

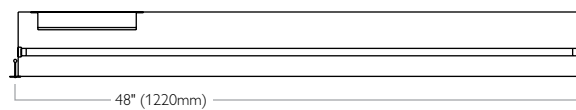
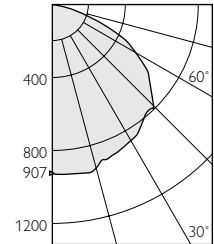
2' x 4' Microperforated mesh lamp shields, 2-lamp 32W T8



RCR	C.U.
1	47
3	37
5	29
7	23
9	17

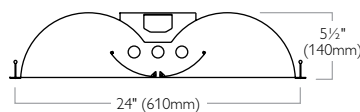
Reference data	
Efficiency	44.8%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	57.1W
Ballast factor	0.88

Candlepower Curve



QVS2GPTOS332UNVH3

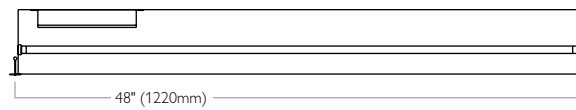
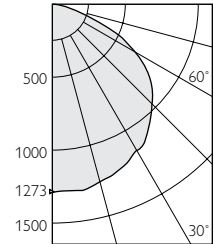
2' x 4' Microperforated mesh lamp shields, 3-lamp 32W T8



RCR	C.U.
1	42
3	33
5	26
7	21
9	19

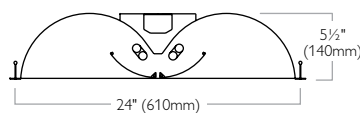
Reference data	
Efficiency	39.4%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	80.4W
Ballast factor	0.88

Candlepower Curve



QVS2GPTOS2FTUNVIB

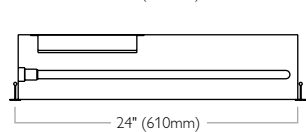
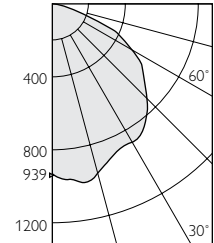
2' x 2' Microperforated mesh lamp shields, 2-lamp 40W TT5



RCR	C.U.
1	42
3	33
5	26
7	21
9	19

Reference data	
Efficiency	39.4%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	80.4W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static*	2' x 4'	2-T8	32W	QVS2GPTOS232
		3-T8	32W	QVS2GPTOS332
		2-T5	28W	QVS2GPTOS228
		3-T5	28W	QVS2GPTOS328
		2-T5HO	54W	QVS2GPTOS254
		3-T5HO	54W	QVS2GPTOS354
Static*	2' x 2'	4-TT5	40, 50, 55W	QVS2GPTOS4FT
		1-TT5	40, 50, 55W	QVS2GPTOS1FT
		2-TT5	40, 50, 55W	QVS2GPTOS2FT
		2-T8	17W	QVS2GPTOS217
		3-T8	17W	QVS2GPTOS317
		2-T5HO	24W	QVS2GPTOS224
		3-T5HO	24W	QVS2GPTOS324

* For optional one-piece lamp shield, replace **OS** by **OP**.



Example

QVS2GPTOS2FT

Alter Metalyte
Direct/indirect recessed
w/mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast
See page 4.50

Options

See page 4.50
and page 4.72

Alter Metalyte louver 2'x4' & 2'x2'

Direct/indirect recessed static luminaires

Sporting a modern look for modern decors, Alter Metalyte louver emit surprisingly soft light and a uniform, low-level luminance. This luminaire allows up to 3 TT5 lamps for a higher lumen package. Once illuminated the reflector and mesh lamp shield appear bathed in the same uniform brightness. The mixture of direct lighting, backlighting and the choice of louver and blades finishes indeed provides a mitigated yet stunning effect. These luminaires blend in particularly well with interiors featuring metallic elements.



Features

- Seamless semi-specular metallic reflector with lengthwise ridges.
- Lens overlay preventing direct view of the lamp source.
- Choice of three flat blade louvers. (See bottom of page for ordering information).
- Suited to row mounting for a continuous cove effect.

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8 (32W only)	PS
3 LPB 40W TT5	I3	IGEN DALI	DA
T8	HI		
3 LPB T8	H3		
T5	PG		

LPB = Number of lamps per ballast.

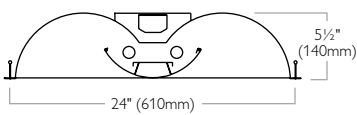
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

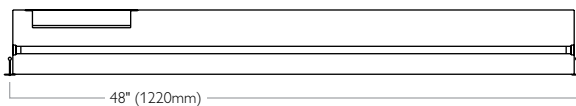
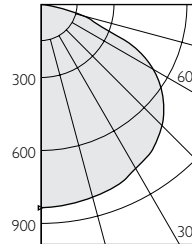
QVS2GPTLG232UNVHI

2' x 4' Microperforated mesh white lamp shields/grey solid louver blades, 2-lamp 32W T8



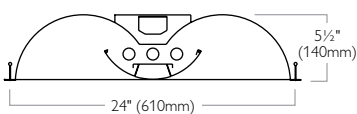
RCR	C.U.	Reference data	
1	43	Efficiency	41.1%
3	34	Spacing ratio	1.4
5	27	Electronic ballast	
7	21	Input watts (120V)	62.0W
9	16	Ballast factor	0.88

Candlepower Curve



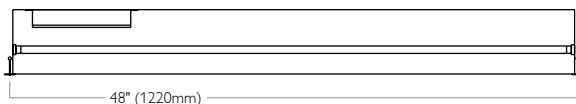
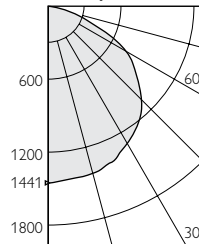
QVS2GPTLG332UNVH3

2' x 4' Microperforated mesh white lamp shields/grey solid louver blades, 3-lamp 32W T8



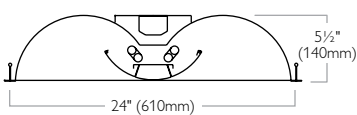
RCR	C.U.	Reference data	
1	47	Efficiency	40.0%
3	37	Spacing ratio	1.3
5	29	Electronic ballast	
7	23	Input watts (120V)	85.0W
9	19	Ballast factor	0.88

Candlepower Curve



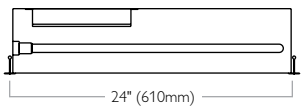
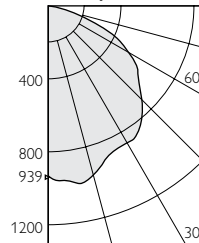
QVS2GPTLG2FTUNVIB

2' x 2' Microperforated mesh white lamp shields/grey solid louver blades, 2-lamp 40W TT5



RCR	C.U.	Reference data	
1	43	Efficiency	40.7%
3	34	Spacing ratio	1.4
5	27	Electronic ballast	
7	22	Input watts (120V)	74.0W
9	17	Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static*	2' x 4'	2-T8	32W	QVS2GPTLG232
		3-T8	32W	QVS2GPTLG332
		2-T5	28W	QVS2GPTLG228
		3-T5	28W	QVS2GPTLG328
		2-T5HO	54W	QVS2GPTLG254
		3-T5HO	54W	QVS2GPTLG354
Static*	2' x 2'	2-TT5	40, 50, 55W	QVS2GPTLG2FT
		3-TT5	40, 50, 55W	QVS2GPTLG3FT
		2-T8	17W	QVS2GPTLG217
		3-T8	17W	QVS2GPTLG317
		2-T5HO	24W	QVS2GPTLG224
		3-T5HO	24W	QVS2GPTLG324



Example

QVS2GPTLG2FT

Alter Metalyte Louver
Direct/indirect recessed w/mesh white lamp shields/grey solid louver blades

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast
See page 4.51

Options

See page 4.51 and page 4.72



Alter OPL 2' x 4'

Direct/indirect static curved opal lens recessed luminaires

Sober design, high performance and Alter's trademark balanced brightness come together beautifully in Alter OPL 2' x 4'. Exhibiting pure form, the one-piece opal acrylic lens produces soft glowing illumination that uniformly lights all surfaces, while creating a feeling of spaciousness. Exceptional value for lighting efficiency provides increased specification opportunities. Models with up to 3 high-output lamps ensure extra-wide lighting distribution in larger open spaces, including workplaces with no or low partitions. Also, this luminaire is well-suited to continuous rows, creating a continuous cove effect that enhances architectural perspectives.

Features

- 80.2% efficient three lamp 32W T8 2' x 4' luminaire.
- Alter soft white film inside of opal acrylic lamp shield conceals lamp image, providing balance between reflected and direct light.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish and specular interior reflector.
- 5 1/2" deep one-piece body for easy installation.
- Swing-down lamp shield for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Fully recessed luminaire and lamp compartment.
- Luminaire can be row mounted.
- Air handling version unavailable

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic	PowerSpec HDF dimming		
T8	HI	T5	PF
3 LPB T8	H3	T5	PS
T5	PG		

LPB = Number of lamps per ballast.

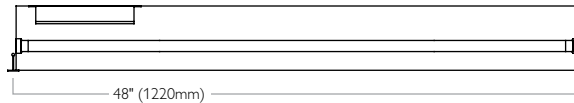
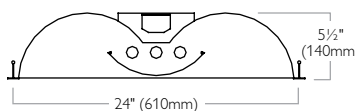
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

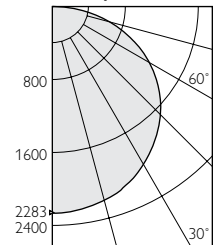
QVS2GOLOP332UNVH3

2' x 4' One-piece opal acrylic lamp shields, 3-lamp 32W T8



RCR	C.U.	Reference data	
1	78	Efficiency	80.2%
3	65	Spacing ratio	1.3
5	55	Electronic ballast	
7	47	Input watts (120V)	86.9W
9	40	Ballast factor	0.9

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	QVS2GOLOP232
		3-T8	32W	QVS2GOLOP332
		2-T5	28W	QVS2GOLOP228
		3-T5	28W	QVS2GOLOP328
		2-T5HO	54W	QVS2GOLOP254
		3-T5HO	54W	QVS2GOLOP354

Example **QVS2GOLOP232**

Alter OPL
Direct/indirect recessed w/one-piece opal lens

UNV
Voltage
120 = 120V
277 = 277V
UNV = 120-277V

HI
Ballast
See page 4.52 (347V N/A)

Options
See page 4.52 and page 4.72

Alter OPL 2' x 2'

Direct/indirect static curved opal lens recessed luminaires

The one-piece opal acrylic lens features an attractive, uncluttered, flush-ceiling, shadowless look that adds elegance to modern interiors. What's more, Alter OPL offers excellent value, while providing superior efficiency. Alter OPL is ideal for open-plan environments, private offices, entrance halls and public spaces.

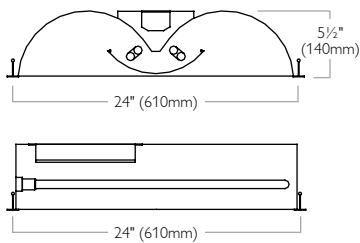


Features

- Alter soft white film inside of opal acrylic lamp shield conceals lamp image, providing balance between reflected and direct light.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- 95% reflective Alter soft white paint finish and specular interior reflector.
- 5 1/2" deep one-piece body for easy installation.
- Swing-down lamp shield for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Fully recessed luminaire and lamp compartment.
- Optional hold-down clips available.
- Luminaire can be row mounted.
- Air handling version not available

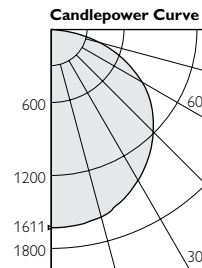
QVS2GOLOP2FTUNVIB

2' x 2' One-piece opal acrylic lamp shields, 2-lamp 40W TT5



RCR	C.U.	Reference data	
1	81	Efficiency	71.8%
3	63	Spacing ratio	1.2
5	50		
7	40		
9	30		

Electronic ballast	
Input watts (120V)	64.6W
Ballast factor	0.88



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	1-TT5	40, 50, 55W	QVS2GOLOP1FT
		2-TT5	40, 50, 55W	QVS2GOLOP2FT
		3-TT5	40, 50, 55W	QVS2GOLOP3FT
		2-T8	17W	QVS2GOLOP217
		3-T8	17W	QVS2GOLOP317
		2-T5HO	24W	QVS2GOLOP224
		3-T5HO	24W	QVS2GOLOP324

Example **QVS2GOLOP2FT**

Alter OPL
Direct/indirect recessed w/one-piece opal lens

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

IB
Ballast
See page 4.53

Options
See page 4.53 and page 4.72

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8	PS
3 LPB 40W TT5	I3		
T8	HI		
3 LPB T8	H3		
Program start T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Alter Waves 2' x 4' & 2' x 2'

Direct/indirect static side basket recessed luminaires

Architectural styling and curved door elements come together in this unique luminaire that provides balanced lighting environment. Dual-door light effect offers visual interest and soft awareness of the lighting element. Twin lateral opposing curved door lamp shields and Alter Soft Light reflector create soft light to enhance any decor.

Features

- Microperforated mesh lamp shields provide soft awareness of light source.
- Curved door lateral lamp shields project light upwards to reflector and provide indirect light.
- 95% reflective Alter soft white paint finish.
- Fully recessed lamp shields and reflector.
- Curved top and sides of reflector are formed together without any gaps or visual barriers.
- No visible welding, screws, latches, springs, holes, rivets or plastic supports.
- Optional solid or curved lamp shields.
- Alter soft white film inside of microperforated mesh lamp shield conceals lamp image, providing balance between reflected and direct light.
- Swing-down lamp shield for easy relamping.
- Easy access to ballast.
- Fits standard T-grid, exposed slot-T-grid and drywall ceilings (see page 4.218).
- Not suitable for row mounting

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF	T8	PS
T8	HI		
3 LPB T8	H3		
4 LPB T8	H4		
Program start T5	PG		

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Conversion kit for 2' x 2' unit: **FK92X2**.

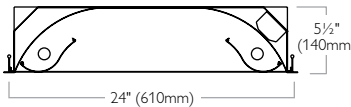
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

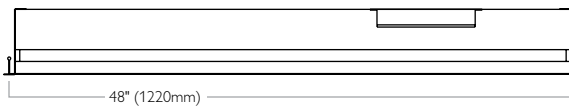
Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QVL2GPFSS232UNVHI

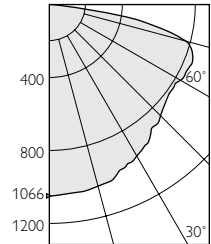
2' x 4' Microperforated mesh dual lateral side lamp shields, 2-lamp 32W T8



RCR	C.U.	Reference data	
1	66	Efficiency	64.7%
3	48	Spacing ratio	1.4
5	37	Electronic ballast	
7	30	Input watts (120V)	62.0W
10	23	Ballast factor	0.88

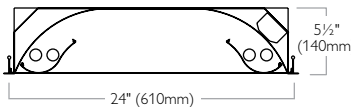


Candlepower Curve

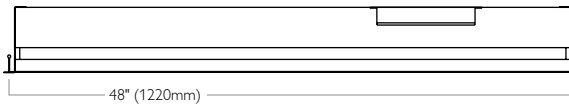


QVL2GPFSS432UNVH4

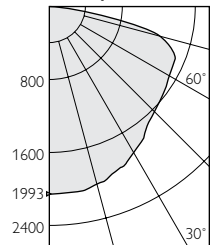
2' x 4' Microperforated mesh dual lateral side lamp shields, 4-lamp 32W T8



RCR	C.U.	Reference data	
1	60	Efficiency	58.6%
3	45	Spacing ratio	1.3
5	35	Electronic ballast	
7	28	Input watts (120V)	112.0W
10	20	Ballast factor	0.88

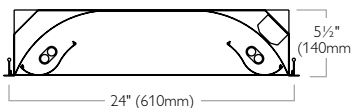


Candlepower Curve

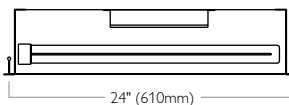


QVL2GPFSS2FTUNVIB

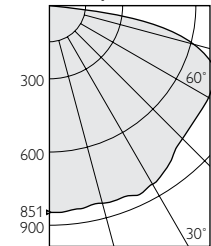
2' x 2' Microperforated mesh dual lateral side lamp shields, 2-lamp 40W TT5



RCR	C.U.	Reference data	
1	47	Efficiency	45.2%
3	36	Spacing ratio	1.3
5	28	Electronic ballast	
7	22	Input watts (120V)	74.0W
10	178	Ballast factor	0.88



Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	28W	QVL2GPFSS228
		2-T5HO	54W	QVL2GPFSS254
		4-T5	28W	QVL2GPFSS428
		4-T5HO	54W	QVL2GPFSS454
		2-T8	32W	QVL2GPFSS232
		4-T8	32W	QVL2GPFSS432
Static	2' x 2'	2-TT5	40, 50, 55W	QVL2GPFSS2FT
		2-T5HO	24W	QVL2GPFSS224

* For optional curved lamp shield replace Wave lamp shield **SS** with **SR**.

Example

QVL2GPFSS2FT

Alter Waves

Direct/indirect recessed w/microperforated mesh dual lateral lamp shields

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast

See page 4.54

Options

See page 4.54 and page 4.72

Alter Dome 2' x 2'

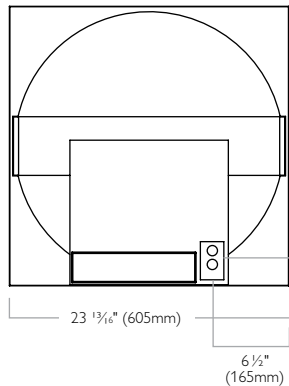
Direct/indirect static round recessed luminaires

Architectural luminaire with uniquely styled optic features "circle in square" form. The open look, elegant appearance and balanced soft light provide a distinctive touch. Rotating luminaires create patterns of light that add variety to the decor:



QVC2GPFOS1FTUNVBP

2' x 2' Microperforated mesh lamp shields, 1-lamp 50W TT5

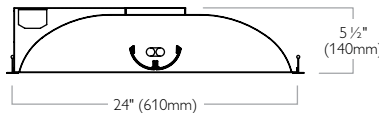
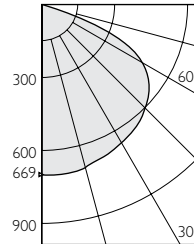


RCR	C.U.	Reference data	
1	56	Efficiency	53.9%
3	42	Spacing ratio	1.4
5	33		
7	27		
10	21		

Electronic ballast

Input watts (120V)	53.7W
Ballast factor	0.88

Candlepower Curve



Features

- Utilizes one high-lumen TT5 compact fluorescent lamp.
- Microperforated mesh lamp shield provides soft awareness of the light source.
- Swing-down lamp shield for easy relamping.
- Alter soft white film on inside of microperforated mesh lamp shield conceals lamp image providing balance between reflected and direct light.
- 95% reflective Alter soft white paint finish and specular interior reflector

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type

Electronic

40W TT5	IB
50W TT5	BP
55W TT5	BF

LPB = Number of lamps per ballast.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

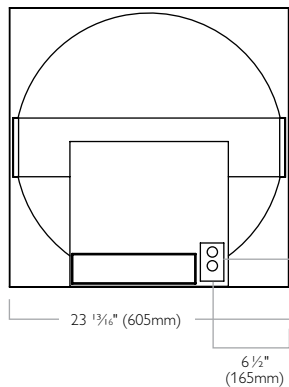
Hold down clips: Standard 15/16" only: **QVS-HD**.

Emergency pack: Not available.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QVC2GPFOS1FTUNVIB

2' x 2' Microperforated mesh lamp shields, 1-lamp 40W TT5

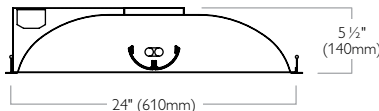
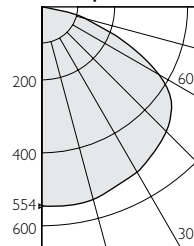


RCR	C.U.	Reference data	
1	60	Efficiency	58.3%
3	45	Spacing ratio	1.4
5	36		
7	29		
10	22		

Electronic ballast

Input watts (120V)	47.3W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	1-TT5	40, 50, 55W	QVC2GPFOS1FT

Example

QVC2GPFOS1FT

Alter Dome

Direct/indirect recessed w/microperforated mesh lamp shields

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

BP

Ballast

See page 4.55

Options

See page 4.55 and page 4.72



Alter Windows 2' x 2'

Direct/indirect static symmetrical recessed luminaires

The gradations of light and gently curved square lamp shields of Alter Windows make a bold design statement. The non-directional design of the Alter Windows shield helps maintain the architectural look of a space. The multi-textured lamp shield and Alter Soft White reflector combine to create visual interest and gradations of light within a single lighting element.

Features

- Utilizes two triple tube (TTT) lamps.
- Alter soft white film inside of microperforated lamp shield conceals lamp image and provides balance between reflected and direct light.
- Opaque lens provides a gradation of light effect that creates visual interest and architectural detail.
- Unique symmetrical design elements.
- Fits standard T-grid, exposed slot-T-grid and drywall ceilings (see page 4.218).
- Swing-down design for easy relamping.
- No visible welding, screws, latches, springs, holes, rivets or plastic supports.
- For wall version (see next page).

Options & accessories [page 4.72 + 4.130](#)

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVTD**.

Ballast type

Electronic		PowerSpec HDF dimming	
26W TTT	TB	40W TTT	PD
32W TTT	TC		
42W TTT	TD		

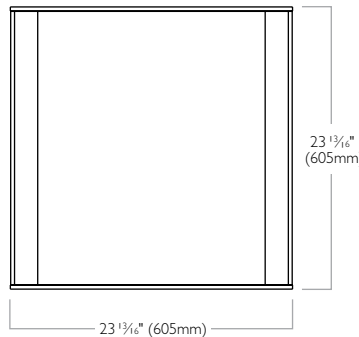
Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency pack: Not available.

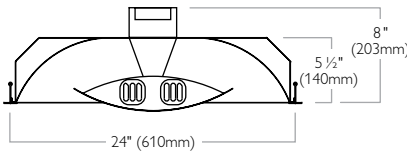
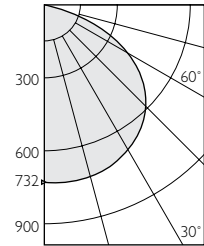
QVS2GPASQ2TTUNVTD

2' x 2' Recessed microperforated mesh square lamp shield, 2-lamp 42W TTT



RCR	C.U.	Reference data	
1	49	Efficiency	46.7%
3	39	Spacing ratio	1.4
5	31	Electronic ballast	
7	24	Input watts (120V)	71.6W
10	18	Ballast factor	1

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-TTT	26, 32, 42W	QVS2GPASQ2TT

Example

QVS2GPASQ2TT

Alter Waves
Direct/indirect recessed w/solid white perimeter lamp shield/white mesh center

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

TD

Ballast
See page 4.56

Options

See page 4.56 and page 4.72

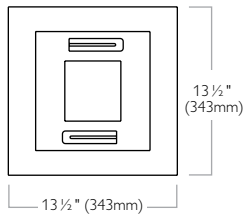
Alter Windows Wall 13 1/2" x 13 1/2"

Direct/indirect recessed luminaires

Matches ceiling luminaire styling. Protruding design projects light backwards to wall, creating a splash of light that surrounds the luminaire. Attention is focused on the gradations of light that frame the translucent center.



QVW1SPASQ2QTUNVF4 13 1/2" x 13 1/2" Surface wall microperforated mesh square lamp shield, 2-lamp 18W QT

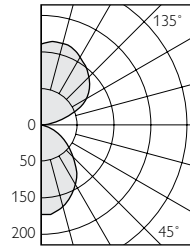


RCR	C.U.	Reference data	
1	35	Efficiency	40.2%
3	24		
5	18		
7	14		
10	10		

Electronic ballast

Input watts (120V)	38.3W
Ballast factor	1

Candlepower Curve



Features

- Utilizes two quad tube (QT) lamps for surface wall.
- Alter soft white film inside of microperforated lamp shield conceals lamp image and provides balance between reflected and direct light.
- Opaque lens provides a gradation of light effect that creates visual interest and architectural detail.
- Unique symmetrical design elements.
- No visible welding, screws, latches, springs, holes, rivets or plastic supports.
- Compact ADA compliant wall sconce form (4" deep) makes it ideal for mounting on columns and for use where wall space is limited

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	13 1/2" x 13 1/2"	2-QT	18W	QVW1SPASQ2QT

Example

QVW1SPASQ2QT

Alter Windows

Direct/indirect recessed w/solid white perimeter lamp shield/white mesh center

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V

F4

Ballast

See page 4.57

Options

See page 4.57 and page 4.72

Options & accessories

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVF4**.

F4: Electronic P.S., 1 or 2 lamps per ballast 18W Quad Tube.

QD: 18W QT PowerSpec HDF dimming. (Not available in 347V)

Emergency pack: Not available.



Alter TileLyte 2' x 2'

Direct/indirect recessed static luminaires with glass lens

Alter TileLyte comprises a recessed 2' x 2' square of radiant light, softened by an interior opal film. It installs flush with the ceiling using decorative hardware, while concealing T-bars. This textured lighting element features glass with chamfered edges, bringing pure sophistication to modern interiors.

Easy Maintenance

- Easy-to-remove thumbscrews facilitate lowering of glass shield.
- Aircraft-cable safety chain attaches behind each thumbscrew to hold glass shield when open.
- Safety chains can be removed for easy cleaning, ballast access and lamp replacement

Elegant Compatibility

- Fits all ceiling grid types (standard T, slim-T and slot-T).
- Blends in with regular flat-edge and aesthetic recessed-edge ceiling tiles.
- Four decorative stainless-steel thumbscrews creating discreet visual interest at the ceiling line

Endless Possibilities

- Unlimited ability to create luminous ceiling patterns.
- Configuration versatility complements ceiling designs, adapts well to architectural interiors.
- Creative side-by-side installations can generate rows, squares, rectangles, "L" shapes, "T" shapes and other geometric figures

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVPG**.

Ballast type

Electronic		PowerSpec	HDF dimming
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF		
T5	PG		
3 LPB 40W TT5	I3		

LPB = Number of lamps per ballast.

Dimming ballast recommended with certain configurations.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

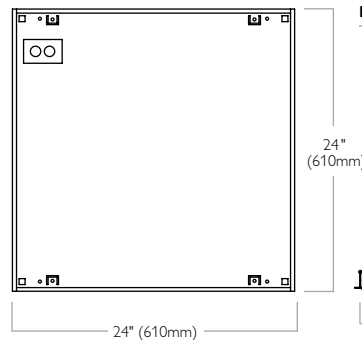
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Lens replacement: Available as a complete assembly. Order cat. no.: **QVD22GLOP**.

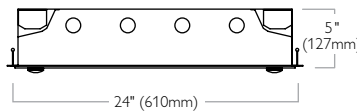
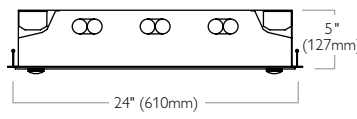
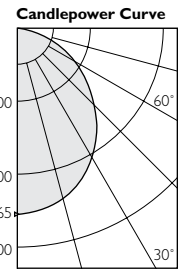
Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QVD2GGLOP3FTUNVI3

2' x 2' Glass with opal film, 3-lamp 40W TT5



RCR	C.U.	Reference data	
1	52	Efficiency	48.9%
3	41	Spacing ratio	1.2
5	33	Electronic ballast	
7	27	Input watts (120V)	99.8W
9	20	Ballast factor	0.88



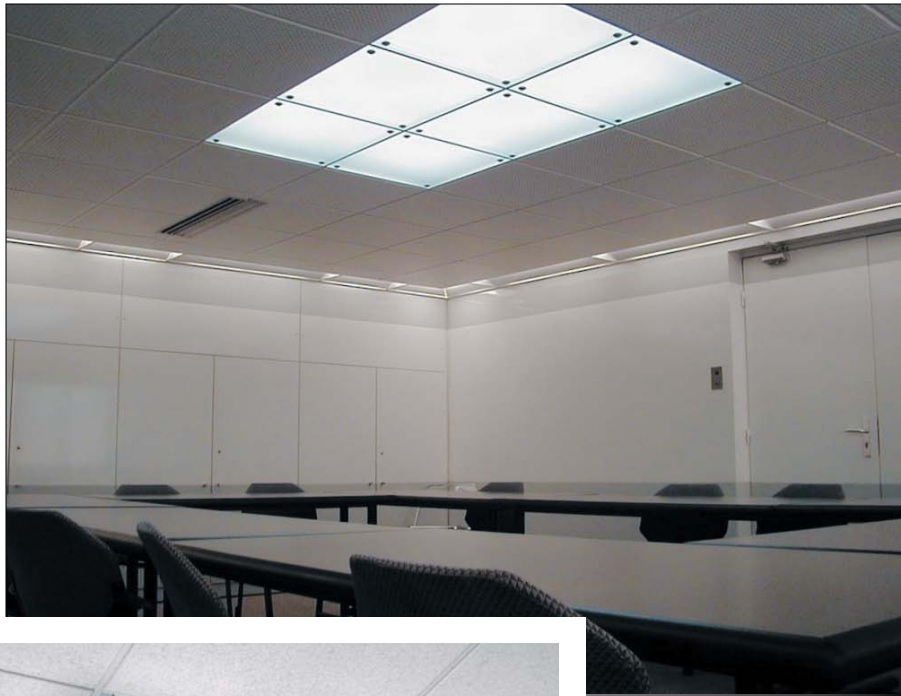
Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	3-TT5	40, 50, 55W	QVD2GGL0P3FT
		3-T5	14W	QVD2GGL0P314
		3-T5	24W	QVD2GGL0P324
		4-T5	14W	QVD2GGL0P414
		4-T5	24W	QVD2GGL0P424

Example	QVD2GGLOP3FT	UNV	I3	
	Alter TileLyte Direct/indirect recessed glass with opal film	Voltage 120 = 120V 277 = 277V UNV = 120-277V	Ballast See page 4.58	Options See page 4.58 and page 4.72

Alter TileLyte 2' x 2'

Direct/indirect recessed static luminaires with glass lens





Alter Slim Semi-recessed 2'x4' & 2'x2'

Direct/indirect recessed static luminaires

This slimly profiled luminaire adds beauty and visual interest to the ceiling. With their gently curved fluid architectural details, they blend into the ceiling perspective. For applications where plenum depth is limited. The combined use of style matched Slim Semi-recessed and Slim Surface luminaires can provide the perfect solution.

Features

- Microperforated mesh lamp shields provide a soft awareness of the light source.
- Alter soft white film on inside of microperforated mesh lamp shields conceal lamp image providing balance between reflected and direct light.
- Luminaire is 2-3/16" total depth for easy installation into shallow plenum.
- Swing-down lamp shields for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Optional drop-down visual element.
- Can be row mounted.
- T8 not available

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF		
T5	PG		

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Hold down clips: Standard T 15/16" only: **QVS-HD**. Add appropriate Suffix: **PF** (Perforated) or **SD** (Solid) (e.g. QVH2GPF/QVH2GSD).

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Clear acrylic plate drop down element

Clear polished acrylic drop-down visual element with projected color face. Substitute acrylic color suffix in place of open slot only.

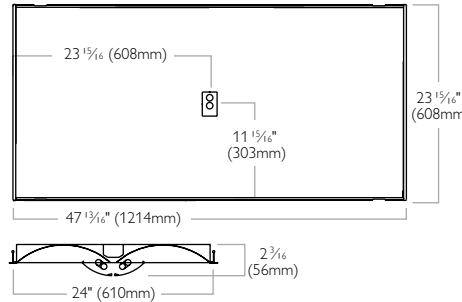
Suffix: **GC** (clear) **GB** (blue) **GG** (green) **GR** (red)

e.g. QVH2GPFOS (**OS** = Open Slot)
e.g. QVH2GPFGB (**GB** = Blue Acrylic)

For other colors or special orders, consult your Philips Lightolier representative.

QVH2GPFOS4FTUNVIB

2' x 4' Slim semi-recessed microperforated mesh lamp shields, 4-lamp 40W TT5



Reference data

Efficiency	52.6%
Spacing ratio	1.5

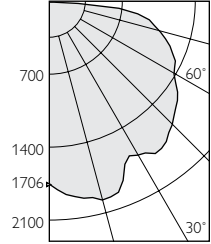
Electronic ballast

Input watts (120V)	142.0W
Ballast factor	0.88

RCR C.U.

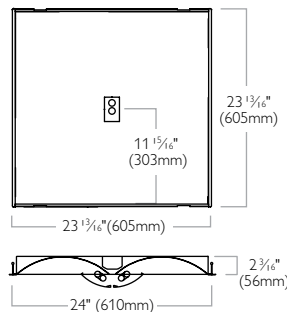
1	53
3	40
5	32
7	25
9	21

Candlepower Curve



QVH2GPFOS2FTUNVIB

2' x 2' Slim semi-recessed microperforated mesh lamp shields, 2-lamp 40W TT5



Reference data

Efficiency	52.6%
Spacing ratio	1.5

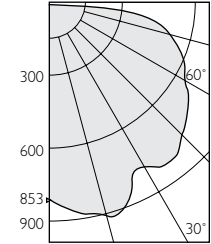
Electronic ballast

Input watts (120V)	67.0W
Ballast factor	0.88

RCR C.U.

1	53
3	39
5	30
7	25
9	21

Candlepower Curve



Ordering information

Type	Size	Recessed ceiling depth	Lamp qty-type	Lamp watts	Catalog no.
Static microperforated mesh lamp shields	2' x 4'	2 1/4"	2-TT5	40, 50, 55W	QVH2GPFOS2FL
			4-TT5	40, 50, 55W	QVH2GPFOS4FT
			2-T5	28W	QVH2GPFOS228
			2-TSHO	54W	QVH2GPFOS254
			3-T5	28W	QVH2GPFOS328
Static microperforated mesh lamp shields	2' x 2'	2 1/4"	3-TSHO	54W	QVH2GPFOS354
			2-TSHO	24W	QVH2GPFOS224
			3-TSHO	24W	QVH2GPFOS324
			1-TT5	40, 50, 55W	QVH2GPFOS1FT
			2-TT5	40, 50, 55W	QVH2GPFOS2FT

Example **QVH2GPFOS2FT**

Alter Slim Semi-recessed
Direct/indirect recessed with microperforated mesh lamp shields

UNV
Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB
Ballast
See page 4.60

Options
See page 4.60 and page 4.72

Alter Slim Semi-recessed 1' x 4'

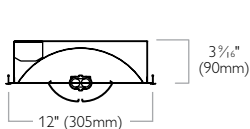
Direct/indirect recessed static luminaires

This slimly profiled luminaire adds beauty and visual interest to the ceiling. With their gently curved fluid architectural details, they blend into the ceiling perspective. For applications where plenum depth is limited. The combined use of style matched Slim Semi-recessed and Slim Surface luminaires can provide the perfect solution.



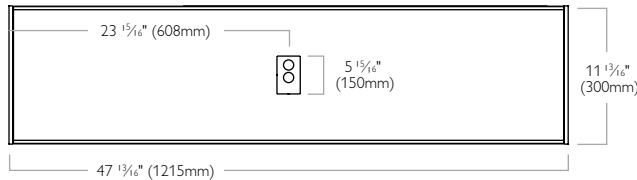
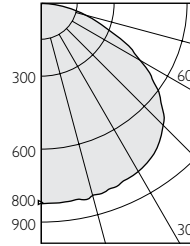
QVH1GPFOS2FTUNVIB

1' x 4' Slim semi-recessed microperforated mesh lamp shields, 2-lamp 40W TT5



RCR	C.U.	Reference data	
1	50	Efficiency	47.5%
3	38	Spacing ratio	1.4
5	30		
7	24		
10	18		

Candlepower Curve



Electronic ballast	
Input watts (120V)	68.0W
Ballast factor	0.9

Features

- Microperforated mesh lamp shields provide a soft awareness of the light source.
- Alter soft white film on inside of microperforated mesh lamp shields conceal lamp image providing balance between reflected and direct light.
- Luminaire is 3-9/16" total depth for easy installation into shallow plenum.
- Swing-down lamp shields for easy relamping.
- Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- Optional drop-down visual element.
- Can be row mounted

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ordering information

Type	Size	Recessed ceiling depth	Lamp qty-type	Lamp watts	Catalog no.
Static microperforated mesh lamp shields	1' x 4'	3-9/16"	2-TT5 2-T5 2-T5HO	40, 50, 55W 28W 54W	QVH1GPFOS2FT QVH1GPFOS228 QVH1GPFOS254

Ballast type

Electronic	PowerSpec HDF dimming
40W TT5 IB	40W TT5 PB
50W TT5 BP	T8 PS
55W TT5 BF	
T5 PG	

Example

QVH1GPFOS2FT

Alter Slim Semi-recessed
Direct/indirect recessed with microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast
See page 4.61

Options

See page 4.61 and page 4.72

Drywall kit: Conversion kit for 2' x 2' unit: **FK91X4**.

Hold down clips: Standard T 15/16" only: **QVS-HD**. Add appropriate Suffix: **PF** (Perforated) or **SD** (Solid) (e.g. QVH1GPF/ QVH1GSD).

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Clear acrylic plate drop down element

Clear polished acrylic drop-down visual element with projected color face. Substitute acrylic color suffix in place of open slot only.

Suffix: **GC** (clear) **GB** (blue)
GG (green) **GR** (red)

e.g. QVH2GPFOS (**OS** = Open Slot)
e.g. QVH2GPFGB (**GB** = Blue Acrylic)

For other colors or special orders, consult your Philips Lightolier representative.



Alter Slim Surface 2' x 4' & 2' x 2'

Direct/indirect recessed luminaires

These slimly profiled luminaires add beauty and visual interest to the ceiling. With their gently curved fluid architectural details, they blend into the ceiling perspective. For applications where plenum depth is limited. The combined use of style matched slim semi-recessed and slim surface luminaires can provide the perfect solution.

Features

- Alter soft white film on inside of microperforated mesh lamp shields conceal lamp image providing balance between reflected and direct light.
- Utilize the same reflector and optics design as Slim Semi-recessed model providing the same lighting performance. Luminaire with its contoured housing gives the visual perception of a very low-profile luminaire.
- Contoured housing depth only 2 1/4". Total depth 3 15/16".
- 95% reflective Alter soft white paint finish and specular interior reflector.
- Swing-down lamp shields for easy relamping. Easy access to ballast through lamp compartment.
- Fits standard T-grid, exposed slot T-grid and drywall ceilings.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- T8 not available.

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP	T5	PF
55W TT5	BF		
T5	PG		

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Clear acrylic plate drop down element

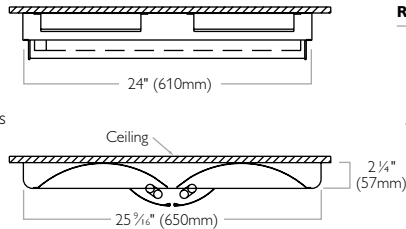
Clear polished acrylic drop-down visual element with projected color face. Substitute acrylic color suffix in place of open slot only.

Suffix: **GC** (clear) **GB** (blue)
GG (green) **GR** (red)

e.g. QVH2GPFOS (**OS** = Open Slot)
e.g. QVH2GPFGB (**GB** = Blue Acrylic)

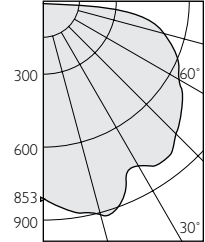
For other colors or special orders, consult your Philips Lightolier representative.

QVF2SPFOS2FTUNVIB

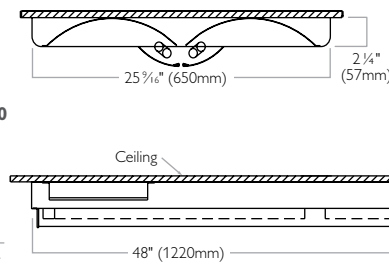


RCR	C.U.	Reference data	
1	53	Efficiency	52.6%
3	39	Spacing ratio	1.5
5	30		
7	25	Electronic ballast	
10	19	Input watts (120V)	67.0W
		Ballast factor	0.88

Candlepower Curve

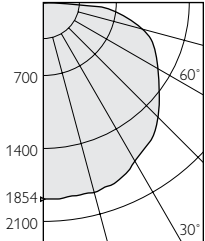


QVF2SPFOS4FTUNVIB



RCR	C.U.	Reference data	
1	52	Efficiency	51.0%
3	39	Spacing ratio	1.5
5	31		
7	25	Electronic ballast	
10	19	Input watts (120V)	130.0W
		Ballast factor	0.88

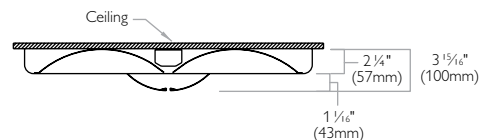
Candlepower Curve



Alter Slim Surface: added profile dimensions

1-11/16" = Depth of basket from bottom of surface frame
2-1/4" = Full depth of fixture from ceiling surface

Allow 3" for recessed T-bar mounting
Actual recessed luminaire depth 5/8"



Ordering information

Type	Size	Recessed ceiling depth	Lamp qty–type	Lamp watts	Catalog no.
Static Microperforated Mesh Lamp Shields	2' x 4'	3 15/16"	2-TT5	40, 50, 55W	QVF2SPFOS2FT
			4-TT5	40, 50, 55W	QVF2SPFOS4FT
			2-T5	28W	QVF2SPFOS228
			2-TSHO	54W	QVF2SPFOS254
			3-T5	28W	QVF2SPFOS328
			3-TSHO	54W	QVF2SPFOS354
Static Microperforated Mesh Lamp Shields	2' x 2'	3 15/16"	1-TT5	40, 50, 55W	QVF2SPFOS1FT
			2-TT5	40, 50, 55W	QVF2SPFOS2FT
			2-TSHO	24W	QVF2SPFOS224
			3-TSHO	24W	QVF2SPFOS324

Example

QVF2SPFOS2FT

Alter Slim Surface
Direct/indirect recessed with
microperforated mesh lamp shields

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

IB

Ballast
See page 4.62

Options

See page 4.62
and page 4.72

Alter Slim Square 2' x 2'

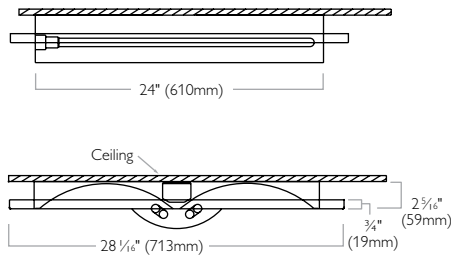
Direct/indirect recessed luminaires

Featuring an attractive inset frame, Alter Slim Square produces a floating effect while hugging the ceiling line. This surface-mount fluorescent luminaire displays a sleek profile with architectural detailing that blends into most environments. For balanced brightness applications where plenum depth is very limited.



QVB2SPGOS2FTUNVIB

2' x 2' Microperforated mesh lamp shields, 2-lamp 40W TT5



Reference data

Efficiency	50.5%
Spacing ratio	1.5

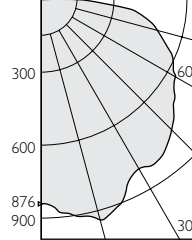
Electronic ballast

Input watts (120V)	64.5W
Ballast factor	0.88

RCR C.U.

1	52
3	39
5	31
7	25
10	20

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static with white body microperforated mesh white lamp shields	2' x 2'	1-TT5	40, 50, 55W	QVB2SPWOS1FT
		2-TT5	40, 50, 55W	QVB2SPWOS2FT
Static with titanium body microperforated mesh white lamp shields	2' x 2'	1-TT5	40, 50, 55W	QVB2SPGOS1FT
		2-TT5	40, 50, 55W	QVB2SPGOS2FT

For Solid Lamp Shield replace **PW** or **PG** by **SW** or **SG**.

Example **QVB2SPGOS2FT**

Alter Slim Semi-recessed
Direct/indirect recessed with microperforated mesh lamp shields

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

IB
Ballast
See page 4.63

Options
See page 4.63 and page 4.72

Features

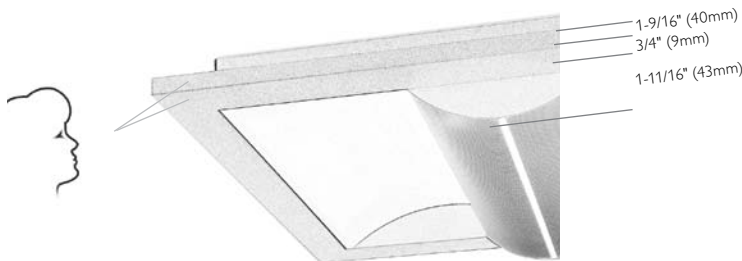
- Microperforated mesh lamp shield.
- Available either in white or titanium painted finish.
- Economical construction providing excellent value.

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP		
55W TT5	BF		



Slim Square 3/4" contoured frame gives the luminaire a very low profile visual perception.

Alter Concept

Direct/indirect recessed luminaires



Alter Concept

Direct/indirect recessed luminaires

Less bulk. Less weight. More performance – up to 92.7% efficient. More sustainable lighting opportunities, especially in shallow and cluttered plenums. And more lighting value for today's modern interiors.

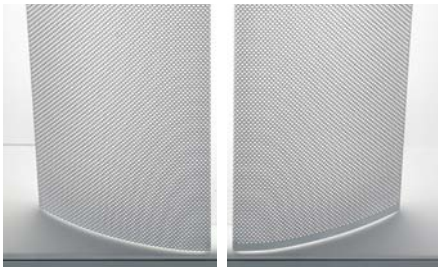
Lower profile: 3 5/8" vs. 5 1/2"



- Suited to sustainable building trend favouring less materials and shallower plenums with 3 5/8" depth ideal for restricted ceiling space (standard Alter Classic housing is 5 1/2").
- Streamlined lightweight construction Alter Concept luminaires are about 30% lighter than regular Alter models with 5 1/2" housings.
- Material-saving approach These products feature less fuel consumption for transportation. Also, they use considerably less steel and less packaging than standard luminaires.
- Architectural flexibility Alter Concept luminaires can help reduce floor-to-floor heights and overall building elevation, while minimizing the use of energy and resources

Solid edge lamp shield

Most Alter Concept models with microperforated mesh lamp shield include signature Solid Edge finish for aesthetic visual appearance where shield and reflector meet.



Old version

Improved version with Solid-Edge technology and seamless design

Increased maintenance convenience

Tool-free access from below facilitates lamp and ballast replacements.



Less is more

Introducing a combination of functionalities so practical, they could change the way architects design energy efficient buildings. Alter Concept features a generation of low profile luminaires. In addition to offering Alter hallmark aesthetics in a greener, more compact and more affordable lighting package, these luminaires deliver superior lighting output well suited to meeting sustainability objectives and LEED requirements.



Alter Concept Elegance

Available in glass and perforated steel shielding models, and in a lens version with fully enclosed dust-free lamp compartment ideal for food preparation areas and hospital applications.



Decorative elements

Glass versions of Alter Concept Elegance, including style-matched Alter Elegance Glass Wall, integrate richly textured architectural materials, such as frosted ridged glass and natural satin-finished metal.



Alter Concept SR

Semi-recessed T5 and T8 versions with microperforated mesh lamp shield.



Alter Concept Elegance Perforated 2' x 4', 2' x 2' & 1' x 4'

Direct/indirect static shallow T5 recessed luminaires

Attractive Concept Elegance provides outstanding lighting design statements in offices and public spaces. This luminaire features seamless construction along with the clean look of solid-edge microperforated mesh lamp shields. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

Features

- Efficiencies up to 67.9%.
- Seamless welded form for 2' x 2' and 2' x 4' models: curved top and side reflectors are formed together without any gaps or visual barriers.
- Shallow design, only 3 3/8" deep for easy installation in shallow plenum.
- Post-painted luminaire.
- Solid-Edge swing-down microperforated lamp shield for easy relamping and maintenance.
- Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light.
- Fully recessed luminaire and lamp compartment.
- 95% Reflective Alter soft white paint finish.
- One-piece body for easy installation.
- Easy access to ballast through lamp compartment.
- Can be row mounted.
- Fits standard 15/16" T-Grid, Slot T-Grid

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVPG**.

Ballast type

<10THD

Electronic T5/T5HO Program start	PG
Electronic TT5 40W Instant start	IB
Electronic TT5 40W Program rapid start	PR
Electronic TT5 50W Rapid start	BP
Electronic TT5 55W Rapid start	BF
Electronic (2) T5 28W Step-dim Programed Rapid Start (B.F.=0.95/0.35)	AY
Electronic TT5/T5/T5HO Program start DALI Digital addressable dimming	DA

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Conversion kit for 2' x 2' unit: **FK92X2**.

Conversion kit for 1' x 4' unit: **FK91X4**.

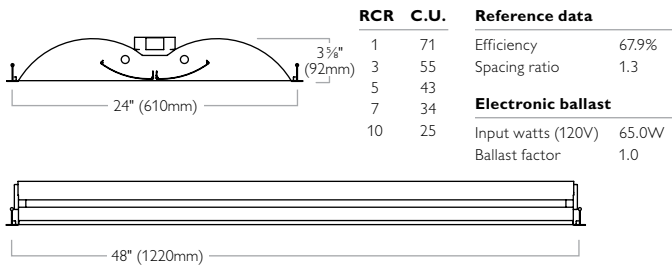
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency Lighting: Consult factory for options.

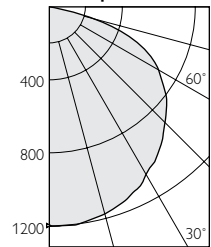
Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QCE2GPFOS228UNVPG

2' x 4' Alter Concept Elegance Perf, 2-Lamp 28W TS

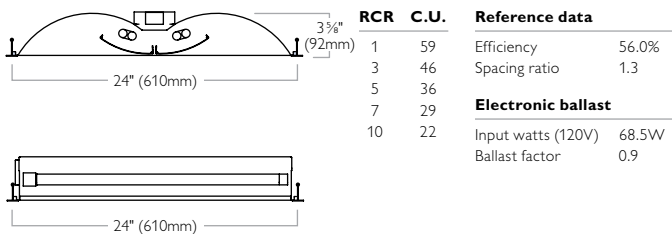


Candlepower Curve

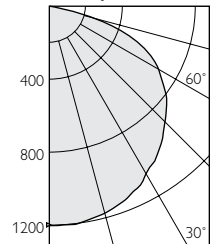


QCE2GPFOS2FTUNVPR

2' x 2' Alter Concept Elegance Perf, 2-Lamp 40W TT5



Candlepower Curve



Ordering information

Type	Size	Recessed ceiling depth	Lamp qty-type	Lamp watts	Catalog no.
Static microperforated mesh lamp shields	2' x 4'	3 3/8"	2-T5	28W	QCE2GPFOS228
			3-T5	28W	QCE2GPFOP328*
			2-T5HO	54W	QCE2GPFOS254
Static microperforated mesh lamp shields	2' x 2'	3 3/8"	2-TT5	40, 50, 55W	QCE2GPFOS2FT
			2-T5HO	24W	QCE2GPFOS224
Static microperforated mesh lamp shields	1' x 4'	3 3/8"	1-T5HO	54W	QCE1GPFOS154
			2-T5	28W	QCE1GPFOS228
			2-T5HO	54W	QCE1GPFOS254

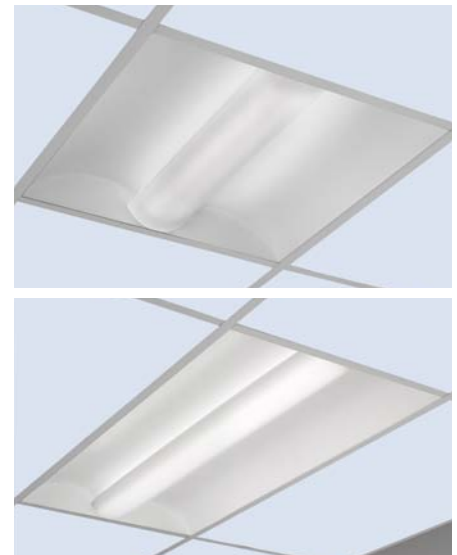
Replace **OS** (open slot) by **OP** for one piece lamp shield (e.g. QCE2GPFOP2FTUNVIB).
* 3-lamp combination only available with one-piece lamp shield.

Example	QCE2GPFOS2FT	UNV	IB	
	Alter Concept Elegance Perf Direct/indirect recessed	Voltage UNV= 120-277V	Ballast See page 4.66	Options See page 4.66 and page 4.72

Alter Concept Elegance Lens 2' x 4', 2' x 2' & 1' x 4'

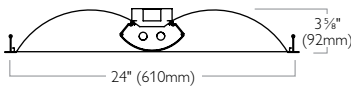
Direct/indirect static shallow T5 recessed luminaires

The Concept Elegance Lens model takes lighting performance to new levels while delivering Alter's signature soft lighting effect. It features superior efficiency and seamless construction. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.



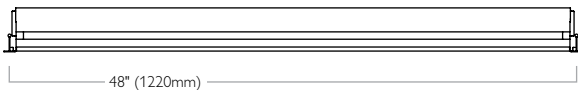
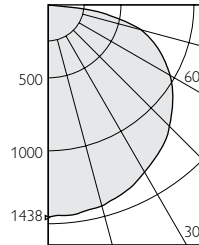
QCE2GOLOP228UNVPG

2' x 4' Alter Concept Elegance Lens, 2-Lamp 28W T5



RCR	C.U.	Reference data	
1	96	Efficiency	92.7%
3	72	Spacing ratio	1.4
5	56	Electronic ballast	
7	45	Input watts (120V)	61.5W
10	33	Ballast factor	1.0

Candlepower Curve

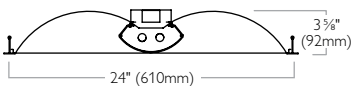


Features

- Efficiencies up to 92.7%.
- Seamless welded form for 2' x 2' and 2' x 4' models: curved top and side reflectors are formed together without any gaps or visual barriers.
- Shallow design, only 3 3/8" deep for easy installation in shallow plenum.
- Post-painted luminaire.
- High performance contoured lens conceals lamp image providing balance between reflected and direct light.
- No tools required to remove lens for easy relamping and maintenance.
- Fully recessed luminaire and lamp compartment.
- 95% Reflective Alter soft white paint finish.
- One-piece body for easy installation.
- Easy access to ballast through lamp compartment.
- Can be row mounted.
- Fits standard 15/16" T-Grid, Slot T-Grid or drywall ceilings

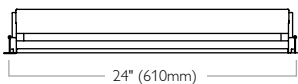
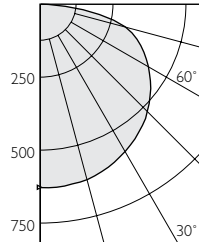
QCE2GOLOP214UNVPG

2' x 2' Alter Concept Elegance Lens, 2-Lamp 14W T5



RCR	C.U.	Reference data	
1	83	Efficiency	87.6%
3	56	Spacing ratio	1.4
5	41	Electronic ballast	
7	32	Input watts (120V)	32.6W
10	23	Ballast factor	1.0

Candlepower Curve



Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVPG**.

Ordering information

Type	Size	Recessed ceiling depth	Lamp qty–type	Lamp watts	Catalog no.
Static Etched lens lamp shields	2' x 4'	3 3/8"	2-T5	28W	QCE2GOLOP228
			2-T5HO	54W	QCE2GOLOP254
Static etched lens lamp shields	2' x 2'	3 3/8"	1-TT5	40, 50, 55W	QCE2GOLOP1FT
			2-T5	14W	QCE2GOLOP214
			2-T5HO	24W	QCE2GOLOP224
Static etched lens lamp shields	1' x 4'	3 3/8"	1-T5HO	54W	QCE1GOLOP154
			2-T5	28W	QCE1GOLOP228
			2-T5HO	54W	QCE1GOLOP254

Ballast type <10THD

Electronic T5/T5HO Program start	PG
Electronic TT5 40W Instant start	IB
Electronic TT5 40W Program rapid start	PR
Electronic TT5 50W Rapid start	BP
Electronic TT5 55W Rapid start	BF
Electronic (2) T5 28W Step-dim Programed Rapid Start (B.F.=0.95/0.35)	AY
Electronic TT5/T5/T5HO Program start DALI Digital addressable dimming	DA

Example

QCE2GOLOP214

Alter Concept Elegance Lens
Direct/indirect recessed

UNV

Voltage
UNV= 120-277V

PG

Ballast
See page 4.67

Options

See page 4.67 and page 4.72

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.
Conversion kit for 1' x 4' unit: **FK91X4**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency Lighting: Consult factory for options.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Alter Concept Elegance Glass 2' x 4' & 2' x 2'

Direct/indirect static shallow T5 recessed luminaires

Concept Elegance Glass exudes soft lighting presence to bring an air of distinction to architectural decors. This luminaire family features beautifully textured glass panels, seamless construction and includes a 2' x 4' version. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

Features

- Efficiencies up to 70.7%.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- Shallow design, only 3 3/8" deep for easy installation in shallow plenum.
- Post-painted luminaire.
- Elegant ridged glass lamp shields on hinged aluminium extrusions swing down for easy relamping and maintenance.
- Alter soft white film on inside of ridged glass conceals lamp image providing balance between reflected and direct light.
- Fully recessed luminaire and lamp compartment.
- 95% Reflective Alter soft white paint finish.
- One-piece body for easy installation.
- Easy access to ballast through lamp compartment.
- Can be row mounted.
- Fits standard 15/16" T-Grid, Slot T-Grid

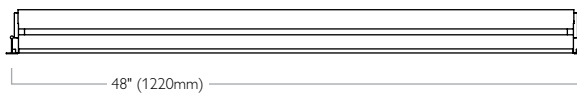
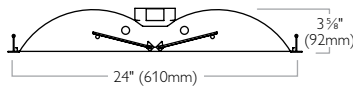
Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVPG**.

Ballast type	<10THD
Electronic T5/T5HO Program start	PG
Electronic TT5 40W Instant start	IB
Electronic TT5 40W Program rapid start	PR
Electronic TT5 50W Rapid start	BP
Electronic TT5 55W Rapid start	BF
Electronic (2) T5 28W Step-dim Programed rapid start (B.F.=0.95/0.35)	AY
Electronic TT5/T5/T5HO Program start DALI Digital addressable dimming	DA

QCE2GGLOS228UNVPG

2' x 4' Alter Concept Elegance Perf, 2-Lamp 28W T5



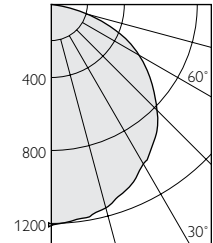
Reference data

Efficiency	70.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	63.0W
Ballast factor	1.0

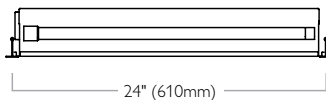
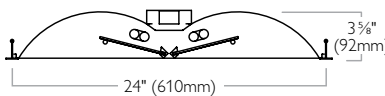
Candlepower Curve



RCR	C.U.
1	74
3	58
5	45
7	36
10	27

QCE2GGLOS2FTUNVPR

2' x 2' Alter Concept Elegance Perf, 2-Lamp 40W TTS



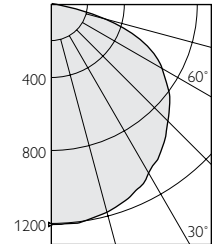
Reference data

Efficiency	58.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	68.9W
Ballast factor	0.9

Candlepower Curve



RCR	C.U.
1	61
3	43
5	33
7	26
10	18

Ordering information

Type	Size	Recessed ceiling depth	Lamp qty-type	Lamp watts	Catalog no.
Static					
Concept Elegance Glass	2' x 4'	3 3/8"	2-T5	28W	QCE2GGLOS228
double glass lamp shields			2-T5HO	54W	QCE2GGLOS254
Static					
Concept Elegance Glass	2' x 2'	3 3/8"	2-TT5	40, 50, 55W	QCE2GGLOS2FT
double glass lamp shields			2-T5HO	24W	QCE2GGLOS224

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency Lighting: Consult factory for options.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Example

QCE2GGLOS2FT
Alter Concept Elegance Perf
Direct/indirect recessed

UNV
Voltage
UNV= 120-277V

IB
Ballast
See page 4.68

Options
See page 4.68
and page 4.72

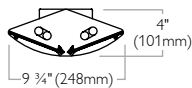
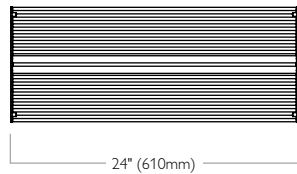
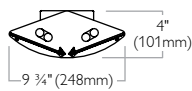
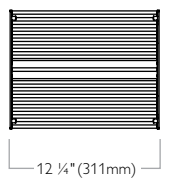
Alter Elegance Wall 9" x 12" & 9" x 24"

Direct/indirect static ceiling & wall luminaires

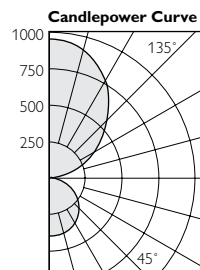
Alter Elegance Wall employs decorative elements in its design such as frosted, ridged glass lenses with natural satin finished trim accents made of satin finished metal. This design brings a unique level of refinement to the world of balanced brightness. Whether installed on walls, columns, partitions or even in alcoves, these luminaires create visual interest in combination with Alter Elegance for example. The utilization of these two products provides opportunities in any space for design consistency.

QVW8SGLOS218UNVBA

Alter Elegance Wall, 2-Lamp 18W TT5



RCR	C.U.	Reference data	
1	52	Efficiency	60.9%
3	37		
5	28	Electronic ballast	
7	22	Input watts (120V)	65.6W
10	16	Ballast factor	0.88



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	9" x 12"		18W	QVW8SGLOS218
Elegance Wall	9" x 24"	2-TT5	40W	QVW8SGLOS2FT

Example **QVW8SGLOS2FT**

Alter Concept Elegance Perf
Direct/indirect recessed

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

BA
Ballast
See page 4.69

Options
See page 4.69 and page 4.72

Features

- Efficiency 60.9%.
- Uses mounting surface as part of optical system.
- Available in 12" and 24" options.
- Installs vertically or horizontally on wall/ceiling.
- Providing balance between reflected and direct light.
- 0 degree lamp cut-off.
- One piece body for easy installation.
- Lamp shield constructed of decorative frosted rigid glass and natural satin-finished metal

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type

Electronic		PowerSpec HDF dimming	
40W TT5	IB	40W TT5	PB
50W TT5	BP		
55W TT5	BF		
18W TT5	BA		

Fusing: Suffix: **A** (Internal fusing).



Alter Concept SR T5

2' x 4' & 2' x 2'

Direct/indirect static T5 semi recessed luminaires

Subtle presence at the ceiling line and classy styling make Concept SR T5 a visually pleasing option for halls, corridors and other spaces. This semi-recessed luminaire features seamless construction along with the clean look of solid-edge microperforated mesh lamp shields. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

Features

- Efficiencies up to 77.5%.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- Shallow design, only 3 3/8" deep for easy installation in shallow plenum.
- Post-painted luminaire.
- Solid-edge swing-down microperforated lamp shield for easy relamping and maintenance.
- Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light.
- Semi-recessed luminaire and lamp compartment.
- 95% Reflective Alter soft white paint finish.
- One-piece body for easy installation.
- Easy access to ballast through lamp compartment.
- Can be row mounted.
- Fits standard 15/16" T-Grid, Slot T-Grid

Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVIB**.

Ballast type	<10THD
Electronic T5/T5HO Program start	PG
Electronic TT5 40W Instant start	IB
Electronic TT5 40W Program rapid start	PR
Electronic TT5 50W Rapid start	BP
Electronic TT5 55W Rapid start	BF
Electronic (2) T5 28W Step-Dim Programed rapid start (B.F.=0.95/0.35)	AY
Electronic TT5/T5/T5HO Program start DALI Digital addressable dimming	DA

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Conversion kit for 2' x 2' unit: **FK92X2**.

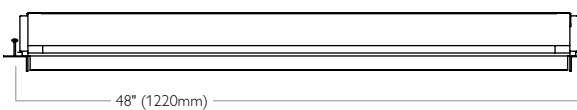
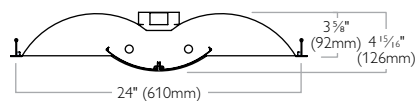
Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency Lighting: Consult factory for options.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

QCH2GPFOS228UNVPG

2' x 4' Alter Concept SR T5, 2-Lamp 28W T5



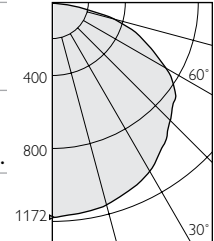
Reference data

Efficiency	71.4%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	67.5W
Ballast factor	1.0

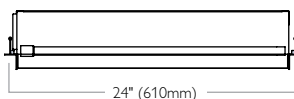
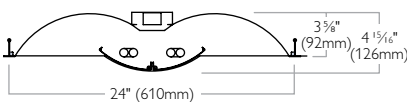
Candlepower Curve



RCR	C.U.
1	75
3	57
5	45
7	36
10	26

QCH2GPFOS2FTUNVPR

2' x 2' Alter Concept SR T5, 2-Lamp 40W T5



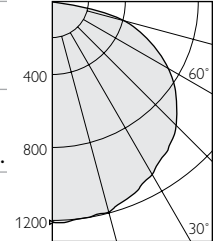
Reference data

Efficiency	58.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	70.7W
Ballast factor	0.9

Candlepower Curve



RCR	C.U.
1	61
3	47
5	37
7	30
10	22

Ordering information

Type	Size	Recessed ceiling depth	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	3 3/8"	2-T5	28W	QCH2GPFOS228
Microperforated mesh lamp shields			2-T5HO	54W	QCH2GPFOS254
			3-T5HO	28W	QCH2GPFOP328*
Static microperforated mesh lamp shields	2' x 2'	3 3/8"	2-T5	40, 50, 55W	QCH2GPFOS2FT
			2-T5HO	24W	QCH2GPFOS224
			3-T5HO	24W	QCH2GPFOP324*

*3-lamp combination only available with one-piece lamp shield.

Example	QCH2GPFOS2FT	UNV	IB	
	Alter Concept Elegance Perf Direct/indirect recessed	Voltage UNV= 120-277V	Ballast See page 4.70	Options See page 4.70 and page 4.72

Alter Concept SR T8 2' x 4' & 2' x 2'

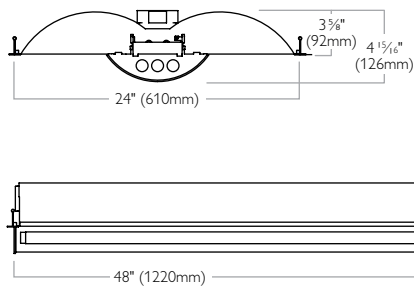
Direct/indirect static T8 semi recessed luminaires

Subtle presence at the ceiling line and classy styling make Concept SR T8 a visually pleasing option for halls, corridors and other spaces. This semi-recessed luminaire features T8 affordability and seamless construction, along with the clean look of microperforated mesh lamp shields. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.



QCJ2GPFOP332UNVH3

2' x 4' Alter Concept SR T8, 3-Lamp 32W T8



Reference data

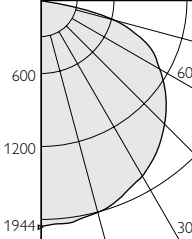
Efficiency	70.5%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	90.7W
Ballast factor	0.88

RCR	C.U.
1	73
3	56
5	44
7	35
10	25

Candlepower Curve

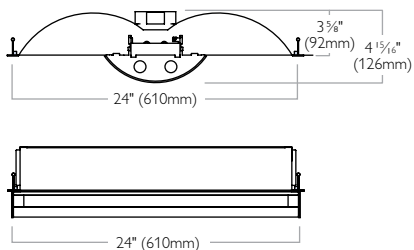


Features

- Efficiencies up to 70.5%.
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers.
- Post-painted luminaire.
- Cost-effective T8 solution with shallow design, only 3 5/8" deep for easy installation in shallow plenum.
- One-piece swing-down microperforated lamp shield for easy relamping and maintenance.
- Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light.
- Semi-recessed luminaire and lamp compartment.
- 95% Reflective Alter soft white paint finish.
- One-piece body for easy installation.
- Easy access to ballast through lamp compartment.
- Not suitable for row mounting.
- Fits standard 15/16" T-Grid, Slot T-Grid

QCJ2GPFOP217UNVHI

2' x 2' Alter Concept SR T8, 2-Lamp 17W T8



Reference data

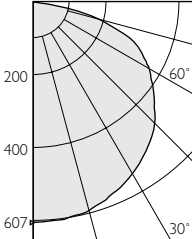
Efficiency	68.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	31.2W
Ballast factor	0.91

RCR	C.U.
1	71
3	55
5	43
7	34
10	25

Candlepower Curve



Options & accessories page 4.72 + 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD
Electronic T8 Program start	P2
Electronic T8 Instant start	HI
Electronic T8 3-lamp instant start	H3
Electronic T8 Program start DALI Digital addressable dimming	DA

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.

Hold down clips: Standard T 15/16" only: **QVS-HD**.

Emergency Lighting: Consult factory for options.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Recessed ceiling depth	Lamp qty-type	Lamp watts	Catalog no.
Static microperforated mesh lamp shields	2' x 4'	3 5/8"	2-T8	32W	QCJ2GPFOP232
			3-T8	32W	QCJ2GPFOP332
Static microperforated mesh lamp shields	2' x 2'	3 5/8"	2-T8	17W	QCJ2GPFOP217

Example

QCJ2GPFOP217

Alter Concept Elegance Perf
Direct/indirect recessed

UNV

Voltage
UNV= 120-277V

HI

Ballast
See page 4.71

Options

See page 4.71
and page 4.72

Alter

Options & accessories



Clear Acrylic Lens
GI = 1/8" nominal thickness

Clear Polycarbonate Lens
PX = 1/8" nominal thickness

Example

LG

Family
LG = Liteguard

2X2

Luminaire Nominal size
2X2 = 2' x 2'
2X4 = 2' x 4'
1X4 = 1' x 4'

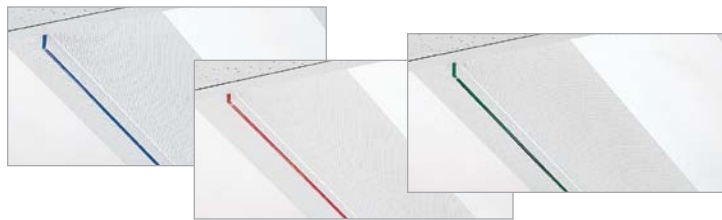
GI

Lens
GI = Clear Acrylic
PX = Clear Polycarbonate

Liteguard

Liteguard is a lens for recessed luminaires adding protection against pathogens, dust and bugs and makes cleaning easy. It fits on almost all 2' x 2', 2' x 4' and 1' x 4' fully recessed luminaires including troffers, parabolics and Alter-types. Post-painted matte white aluminum frame fits Alter paint.

See Liteguard brochure for more details.



Optional clear polished acrylic drop-down visual element with projected color face

Substitute acrylic suffix in place of open slot (**OS**) only. (e.g. replace QVS2GPF**OS** by QVS2GPF**GR** (Red))

Suffix: GC (Clear) **GG** (Green Acrylic)
GB (Blue) **GR** (Red Acrylic)

For other colors, consult your Philips Lightolier representative.

Available for:

- Alter Classic Recessed 2' x 2' (not avail. with air handling)
- Alter Classic Recessed 2' x 4' (not avail. with air handling)
- Alter Classic Recessed 1' x 4' (not avail. for 1 lamp)
- Alter Slim Semi-recessed 2' x 2' (not avail. for 1 lamp)
- Alter Slim Semi-recessed 2' x 4' (not avail. for 2-lamp TT5)
- Alter Slim Square 2' x 2' (not avail. for 1 lamp)
- Alter Slim Surface 2' x 2', 2' x 4' (not avail. for 2-TT5)

To get a lens separately, order Catalog no.

Size	Example	Description	Catalog no.
1' x 4'	LNQVS14	(Color Suffix)	LNQVS14 - GB
2' x 2'	LNQVS22	(Color Suffix)	LNQVS22 - GR
2' x 4'	LNQVS24	(Color Suffix)	LNQVS24 - GG



Emergency power battery pack

Add appropriate suffix in option box: T8/T5/T5HO models. Suffix: **E**

Factory installed emergency power battery pack with charger and inverter, concealed in luminaire channel. Upon loss of AC power, operates one fluorescent lamp at 15% light output for 90 minutes. 120V and 277V versions available.

Note: 2' x 2' Alter Concept luminaires equipped with Emergency Lighting are 5-1/4" deep. 2' x 4' versions with double-switching are 5-1/4" deep while regular 2' x 4' versions (1 ballast) are 3-5/8" deep.

Hold down clips

Four clips required per luminaire. Suited to standard 15/16" and slot T grid ceilings. Can also be used for row-mounting applications.

Order separately: catalog no. **QVS-HD**.

(Kit bag contains 4 clips)



Radio interference filter

Suffix: **R** (in Option box)

Inductive capacitor circuit designed to minimize interference from line radiation or feedback.

(One per circuit required)



Internal fusing

Suffix: **A** (Internal fast-blow fusing).
 Suffix: **C** (Internal slow-blow fusing).





Coffaire HP 2' x 4'

Direct/indirect recessed static luminaires

Our new high-performance Coffaire HP luminaire features a high 95% reflectance white powder painted body, our new Transoptix lens and a 95% reflectance Miro® aluminum reflector. Achieving efficiencies 20% greater than comparable luminaires currently available in the market.

Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp basket with unique TransOptix lens.
- Body 95% reflective flat white powder coated.
- 95% Internal Miro® reflector.
- 73.4% efficient two lamp 32W T8 2' x 4' luminaire.
- 66.9% efficient three lamp 32W T8 2' x 4' luminaire.
- 80.2% efficient two lamp 28W T5 2' x 4' luminaire.
- 80.7% efficient two lamp 54W T5HO 2' x 4' luminaire.
- Only 5" deep.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling.
- Fits flush to face of slot grid (T) ceiling.
- Injection molded light stop at basket ends.
- Perforated lamp shield hinges from either side.
- Ballast accessible thru lamp compartment from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
1 - 3 Lamp T8	H3*, P3**	O3*
Electronic T5	PG	–
LOL Dimming T8	PS	–

* Instant start.
** Program start.

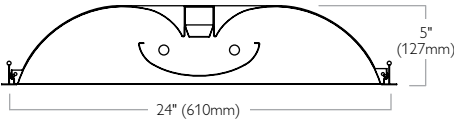
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CFS2GHP228120WA



Reference data

Efficiency	80.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.6W
Ballast factor	0.93

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5 3-T5	28W	CFS2GHP228 CFS2GHP328

Example **CFS2GHP228** **120** **WA** **A**

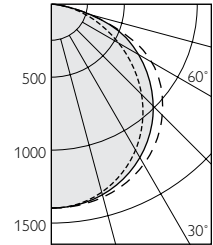
Coffaire HP
Direct/indirect recessed w/perforated mesh shield

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

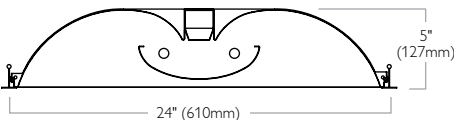
Ballast
See page 4.74

Options
See page 4.74 and page 4.130

Candlepower Curve



CFS2GHP254UNVPG



Reference data

Efficiency	80.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	121.1W
Ballast factor	1

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	1-T5HO 2-T5HO	54W	CFS2GHP154 CFS2GHP254

Example **CFS2GHP254** **UNV** **PG** **A**

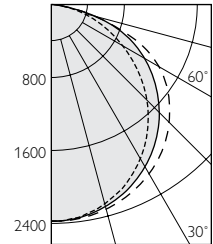
Coffaire HP
Direct/indirect recessed w/perforated mesh shield

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

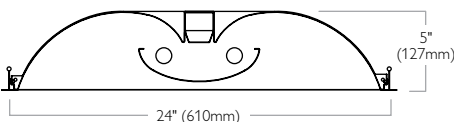
Ballast
See page 4.74

Options
See page 4.74 and page 4.130

Candlepower Curve



CFS2GHP232UNVHI



Reference data

Efficiency	73.4%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	58.7W
Ballast factor	0.88

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8 3-T8	32W	CFS2GHP232 CFS2GHP332

Example **CFS2GHP232** **UNV** **HI** **A**

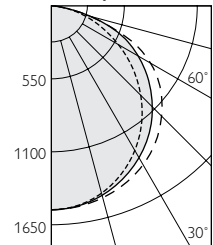
Coffaire HP
Direct/indirect recessed w/perforated mesh shield

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

Ballast
See page 4.74

Options
See page 4.74 and page 4.130

Candlepower Curve



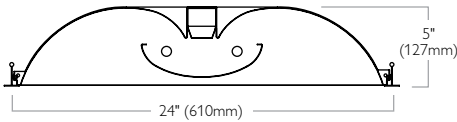
Coffaire HP 2' x 2'

Direct/indirect recessed static luminaires

Our new high-performance Coffaire HP luminaire features a high 95% reflectance white powder painted body, our new Transoptix lens and a 95% reflectance Miro® aluminum reflector. Achieving efficiencies 20% greater than comparable luminaires currently available in the market. The 2' x 2' model, with Philips ballast and 25 watt PL-L lamps, is over 85% efficient. This unique combination of the Coffaire HP, lamps and ballast provides 46 maintained foot candles at 0.71 watts per square foot.



CFS2GHP224UNVPG



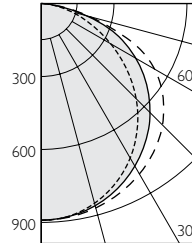
Reference data

Efficiency	76.6%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	52.8W
Ballast factor	1

Candlepower Curve



Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp basket with unique TransOptix lens.
- Body 95% reflective flat white powder coated.
- 95% Internal Miro® reflector.
- 76.6% efficient two lamp 24W T5HO 2' x 2' luminaire.
- 85.4% efficient two lamp 25W TT5 2' x 2' luminaire.
- 71.5% efficient two lamp 40W TT5 2' x 2' luminaire.
- 72.5% efficient two lamp 17W T8 2' x 2' luminaire.
- Only 5" deep.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling.
- Fits flush to face of slot grid (T) ceiling.
- Injection molded light stop at basket ends.
- Perforated lamp shield hinges from either side.
- Ballast accessible thru lamp compartment from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	CFS2GHP214
		2-T5HO	24W	CFS2GHP224
		3-T5HO	24W	CFS2GHP324

Example

CFS2GHP224

Coffaire HP
Direct/indirect recessed
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

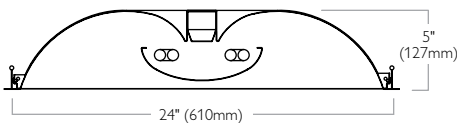
PG

Ballast
See page 4.75

A

Options
See page 4.75
and page 4.130

CFS2GHP2FTUNVIB



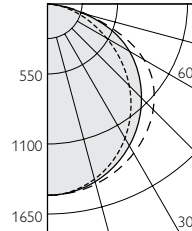
Reference data - 25W

Efficiency	85.4%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	57.3W
Ballast factor	0.88

Candlepower Curve



Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-Twin tube T5	40W	CFS2GHP2FT
			25W	CFS2GHP2FT

Example

CFS2GHP2FT

Coffaire HP
Direct/indirect recessed
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

IB

Ballast
See page 4.75

A

Options
See page 4.75
and page 4.130

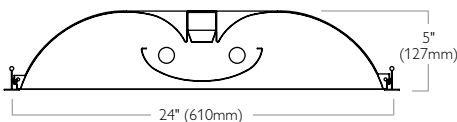
Ballast type

	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic TT5 40W	IB* , PR**	SB*
Electronic T5	PG	–

* Instant start.

** Program start.

CFS2GHP217UNVHI



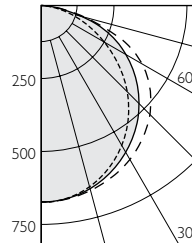
Reference data

Efficiency	72.5%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	30.1W
Ballast factor	0.91

Candlepower Curve



Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-T8	17W	CFS2GHP217
		3-T8		CFS2GHP317

Example

CFS2GHP217

Coffaire HP
Direct/indirect recessed
w/perforated mesh shield

UNV

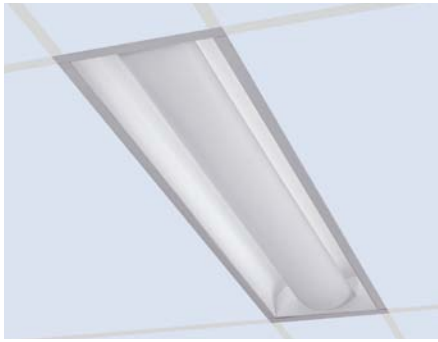
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.75

A

Options
See page 4.75
and page 4.130



Coffaire HP 1' x 4'

Direct/indirect recessed static luminaires

Our new high-performance Coffaire HP luminaire features a high 95% reflectance white powder painted body, our new TransOptix lens and a 95% reflectance Miro® aluminum reflector. Achieving efficiencies 20% greater than comparable luminaires currently available in the market.

Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp basket with unique TransOptix lens.
- Body 95% reflective flat white powder coated.
- 95% Internal Miro® reflector.
- 69.1% efficient two lamp 32W T8 1' x 4' luminaire.
- 77.4% efficient two lamp 28W T5 1' x 4' luminaire.
- Only 5" deep.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling.
- Fits flush to face of slot grid (T) ceiling.
- Injection molded light stop at basket ends.
- Perforated lamp shield hinges from either side.
- Ballast accessible thru lamp compartment from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Construction to meet NYC Code or Chicago Plenum requirement available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	P2 **	–
Electronic T8 (1 & 2 Lamp)	HI *	SO *
Electronic T5 28W (1-2 Lamp)	PG **	–
Electronic T5 54W (1-2 Lamp)	PG **	–
Electronic T5 28W instant start	WA *†	–
LOL Dimming T8†	PS	–

* Instant start. Standard
(**WA** Ballast only available in either 120 or 277).

** Program rapid start (**UNV** only)

† 57.5 Input watts 0.93 B.F.

Other dimming options. Consult factory.

Note: For **T8 UNV**, you must use **HI** or **P2** ballast code.

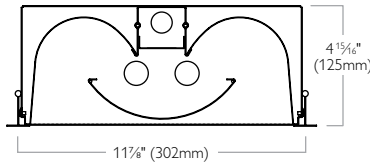
Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CFS1GHP232UNVHI



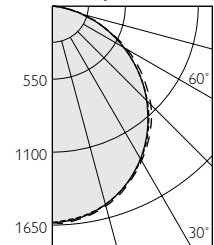
Reference data

Efficiency	69.1%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	57.4W
Ballast factor	.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	1' x 4'	1-T8 2-T8	32W	CFS1GHP132 CFS1GHP232

Example

CFS1GHP232

Coffaire HP
Direct/indirect recessed
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

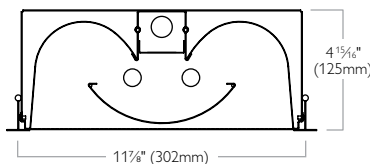
HI

Ballast
See page 4.76

A

Options
See page 4.76
and page 4.130

CFS1GHP228120WA



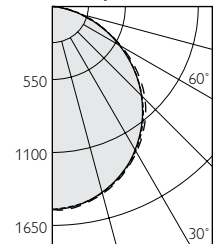
Reference data

Efficiency	77.4%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	55.4W
Ballast factor	.93

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	1' x 4'	1-T5 2-T5 1-T5HO 2-T5HO	28W 28W 54W 54W	CFS1GHP128 CFS1GHP228 CFS1GHP154 CFS1GHP254

Example

CFS1GHP228

Coffaire HP
Direct/indirect recessed
w/perforated mesh shield

120

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

WA

Ballast
See page 4.76

A

Options
See page 4.76
and page 4.130

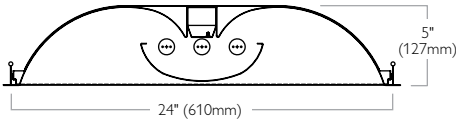
Coffaire II 2' x 4'

Direct/indirect recessed air return or static luminaires

Coffaire II combines a perforated mesh lamp shields and an indirect cove to create an aesthetically pleasing direct/indirect luminaire that has provision for air return or static operation.



CFH2GPF332UNVH3



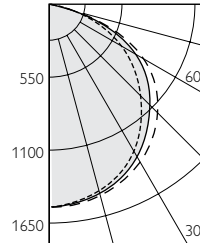
Reference data

Efficiency	60.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	89W
Ballast factor	0.90

Candlepower Curve



Features

- Direct/indirect lamp shield appearance with soft contoured interior one piece body.
- Perforated Mesh Lamp Shields with white acrylic overlay.
- 60.2% efficient three lamp T8 2' x 4' luminaire.
- 63.8% efficient two lamp T8 2' x 4' luminaire.
- 70.8% efficient two lamp T5 2' x 4' luminaire.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid T ceiling.
- End securing tension bars.
- Air return standard (meets UL requirements).
- Light traps between basket and fixture end (static models).
- Lamp shield hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Built in earthquake clips standard.
- Housing is available in 20 gauge steel that meets NYC requirements.

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Static	2' x 4'	3-T8	CFS2GPF332
Air return	2' x 4'	3-T8	CFH2GPF332

Example

CFH2GPF332

Coffaire

Direct/indirect recessed w/perforated mesh shield

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V

H3

Ballast

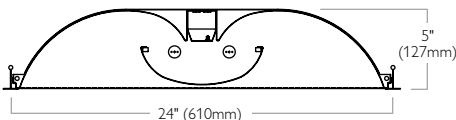
See page 4.77

A

Options

See page 4.77 and page 4.130

CFH2GPF232UNVHI



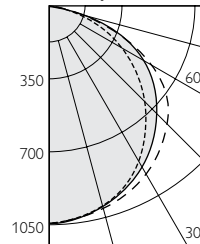
Reference data

Efficiency	63.8%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	58W
Ballast factor	0.88

Candlepower Curve



Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Static	2' x 4'	2-T8	CFS2GPF232
Air return	2' x 4'	2-T8	CFH2GPF232

Example

CFH2GPF232

Coffaire

Direct/indirect recessed w/perforated mesh shield

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast

See page 4.77

A

Options

See page 4.77 and page 4.130

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

* Instant start.

** Program start.

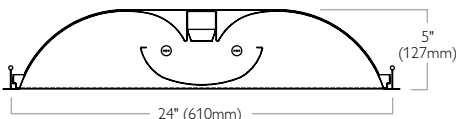
Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CFS2GPF254UNVPG



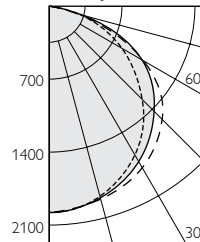
Reference data

Efficiency	70.8%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	123.2W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Static	2' x 4'	1-T5HO	CFS2GPF154
		2-T5HO	CFS2GPF254
		2-T5	CFS2GPF228

Example

CFS2GPF254

Coffaire

Direct/indirect recessed w/perforated mesh shield

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast

See page 4.77

A

Options

See page 4.77 and page 4.130



Coffaire II 2' x 2'

Direct/indirect recessed air return or static luminaires

Coffaire II combines a perforated mesh lamp shields and an indirect cove to create an aesthetically pleasing direct/indirect luminaire that has provision for air return or static operation.

Features

- Direct/indirect lamp shield appearance with soft contoured interior one piece body.
- Perforated mesh lamp shields with white acrylic overlay.
- 68.10% efficient two lamp TT5 2' x 2' luminaire.
- 56.7% efficient two lamp T5HO 2' x 2' luminaire.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid T ceiling.
- End securing tension bars.
- Air return standard (meets UL requirements).
- Light traps between basket and fixture end (static models).
- Lamp shield hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Built in earthquake clips standard.
- Housing is available in 20 gauge steel that meets NYC requirements.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
1 - 3 Lamp T8	H3*, P3**	O3*
Electronic TT5 40W	IB*, PR**	SB*
Electronic T5	PG	-

* Instant start.
** Program start.

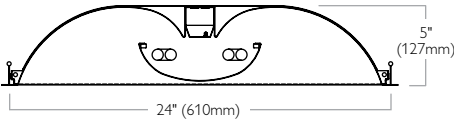
Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CFH2GPF2FT120SB



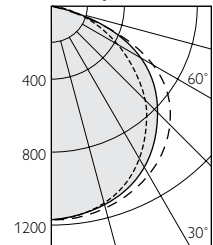
Reference data

Efficiency	68.1%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	65.5W
Ballast factor	0.90

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Static	2' x 2'	2-TT5	CFS2GPF2FT
Air return	2' x 2'	2-TT5	CFH2GPF2FT

Example

CFH2GPF2FT

Coffaire
Direct/indirect recessed
w/perforated mesh shield

120

Voltage

120 = 120V
277 = 277V

UNV = 120-277V
(Elec. TT5 Ballast only)

SB

Ballast

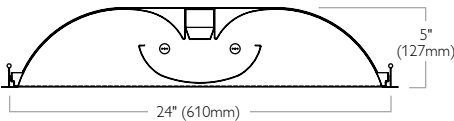
See page 4.78

A

Options

See page 4.78
and page 4.130

CFS2GPF224UNVPG



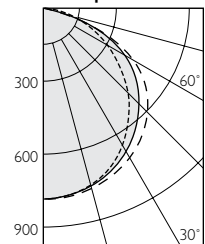
Reference data

Efficiency	56.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.1W
Ballast factor	

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Static	2' x 2'	2-T8	CFS2GPF217
		3-T8	CFS2GPF317
		2-T5	CFS2GPF214
		2-T5HO	CFS2GPF224
Air return	2' x 2'	2-T8	CFH2GPF217
		3-T8	CFH2GPF317

Example

CFS2GPF224

Coffaire
Direct/indirect recessed
w/perforated mesh shield

UNV

Voltage

120 = 120V
277 = 277V

UNV = 120-277V

PG

Ballast

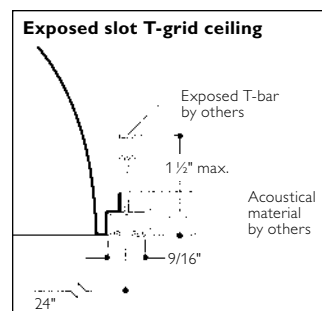
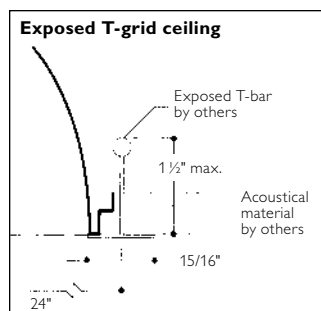
See page 4.78

A

Options

See page 4.78
and page 4.130

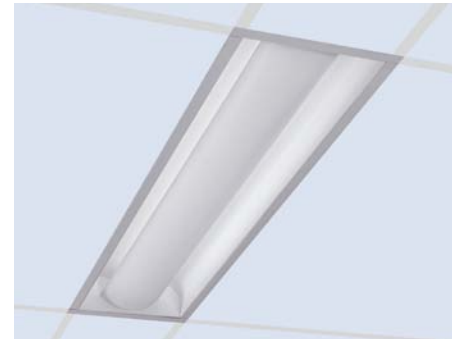
Mounting methods



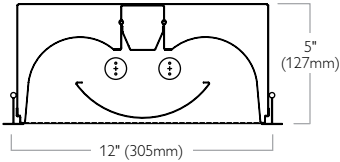
Coffaire II 1' x 4'

Direct/indirect recessed air return or static luminaires

Coffaire II combines a perforated mesh lamp shields and an indirect cove to create an aesthetically pleasing direct/indirect luminaire that has provision for air return or static operation.



CFH1GPF232UNVHI



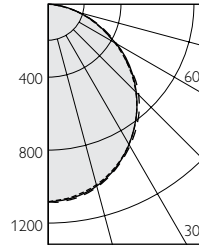
Reference data

Efficiency	52.1%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	67.7W
Ballast factor	0.87

Candlepower Curve



Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- 52.1% efficient two lamp T8 1' x 4' luminaire.
- 55.7% efficient two lamp T5 1' x 4' luminaire.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid T ceiling.
- Air return standard (meets UL requirements).
- Lamp shield hinges from either side.
- Can be continuous row mounted.
- Wiring access plate standard.
- 2 earthquake clips standard.
- Housing is available in 20 gauge steel that meets NYC requirements.
- Construction to meet Chicago Plenum requirements is available.

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Air return	1' x 4'	1-T8	32W	CFH1GPF132
		2-T8		CFH1GPF232
Static	1' x 4'	1-T8	32W	CFS1GPF132
		2-T8		CFS1GPF232

Example

CFH1GPF232

Coffaire
Direct/indirect recessed w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.79

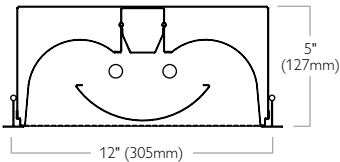
A

Options
See page 4.79 and page 4.130

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

CFH1GPF228120WA



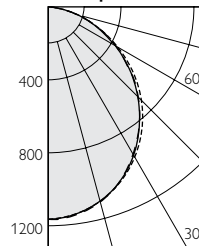
Reference data

Efficiency	55.7%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	57.0W
Ballast factor	0.93

Candlepower Curve



Ballast type

	<10THD	<20THD
Electronic T8	P2**	–
Electronic T8 (1 & 2 Lamp)	HI*	SO*
Electronic T5 28W (1-2 Lamp)	PG**	–
Electronic T5 54W (1-2 Lamp)	PG**	–
Electronic T5 28W instant start	WA*†	–
LOL Dimming T8	PS	–

* Instant start. Standard

(**WA** Ballast only available in either 120 or 277.)

** Program rapid start (**UNV** only)

† 57.5 Input watts 0.93 B.F.

Other dimming options. Consult factory.

Note: For **T8 UNV**, you must use **HI** or **P2** ballast code.

Drywall kit: Conversion kit for 1' x 4' unit: **FK91X4**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).

Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Air return	1' x 4'	1-T5	28W	CFH1GPF128
		2-T5	28W	CFH1GPF228
		1-T5HO	54W	CFH1GPF154
		2-T5HO	54W	CFH1GPF254
Static	1' x 4'	1-T5	28W	CFS1GPF128
		2-T5	28W	CFS1GPF228
		1-T5HO	54W	CFS1GPF154
		2-T5HO	54W	CFS1GPF254

Example

CFH1GPF228

Coffaire
Direct/indirect recessed w/perforated mesh shield

120

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

WA

Ballast
See page 4.79

A

Options
See page 4.79 and page 4.130



Coffaire II Air 2' x 4'

Direct/indirect recessed air supply and return luminaires

Coffaire II Air combines our traditional soft light perforated basket appearance with air supply/return functions for installations that demand both features.

Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- Contoured body and ends.
- air supply and return.
- Air return slots located above lamp shield.
- Air return models meet UL 1598, Paragraph 9.2.2.5 requirements.
- 65.0% efficient two lamp 28W T5 2' x 4' luminaire.
- 70.8% efficient two lamp 54W T5 2' x 4' luminaire.
- 63.8% efficient two lamp T8 2' x 4' luminaire.
- 60.2% efficient three lamp T8 2' x 4' luminaire.
- Only 5" deep.
- Tension screws secure ends to body.
- Perforated lamp shield hinges from either side.
- Can be continuous row mounted.
- Built-in earthquake clips.
- Ballast accessible from room side.
- Optional supply air slot cover.
- Meets NYC Code.
- Construction to meet Chicago Plenum requirements is available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

* Instant start.

** Program start.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical wiring options: Consult factory.

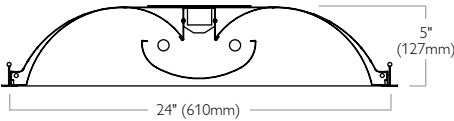
Dust Shield: See folio number: **OA50-20**.

Optional supply air slot cover: Order Cat No: **CACS-4 CSP**.

Fusing: Suffix: **A** (Internal fast-blow fusing), Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

CFA2GPF254UNVPG



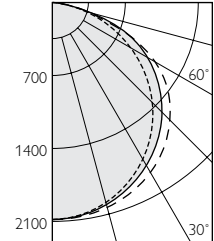
Reference data

Efficiency	70.8%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	123W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Catalog no.
Air supply and return	2' x 4'	2-T5	CFA2GPF254 CFA2GPF228

Example

CFA2GPF254

Coffaire II Air
Direct/indirect recessed
air supply and return
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

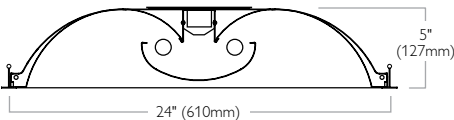
PG

Ballast
See page 4.80

A

Options
See page 4.80
and page 4.130

CFA2GPF232UNVHI



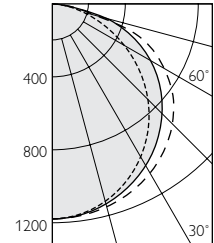
Reference data

Efficiency	63.8%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	58W
Ballast factor	.87

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Catalog no.
Air supply and return	2' x 4'	2-T8	CFA2GPF232

Example

CFA2GPF232

Coffaire II Air
Direct/indirect recessed
air supply and return
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

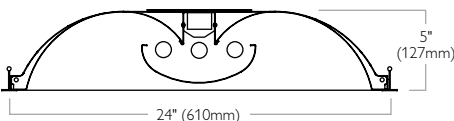
HI

Ballast
See page 4.80

A

Options
See page 4.80
and page 4.130

CFA2GPF332UNVH3



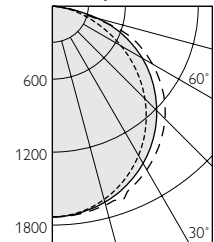
Reference data

Efficiency	60.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	85W
Ballast factor	.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Catalog no.
Air supply and return	2' x 4'	3-T8	CFA2GPF332

Example

CFA2GPF332

Coffaire II Air
Direct/indirect recessed
air supply and return
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

H3

Ballast
See page 4.80

A

Options
See page 4.80
and page 4.130

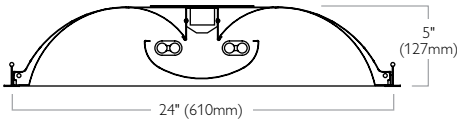
Coffaire II Air 2' x 2'

Direct/indirect recessed air supply and return luminaires

Coffaire II Air combines our traditional soft light perforated basket appearance with air supply/return functions for installations that demand both features.



CFA2GPF2FT120SB



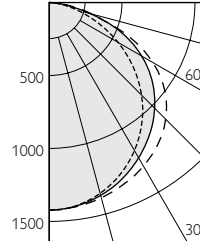
Reference data

Efficiency	68.1%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	65W
Ballast factor	.86

Candlepower Curve



Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- Contoured body and ends.
- air supply and return.
- Air return slots located above lamp shield.
- Air return models meet UL 1598, Paragraph 9.2.2.5 requirements.
- 68.1% efficient two lamp TT5 2' x 2' luminaire.
- 55.2% efficient two lamp TT5 2' x 2' luminaire.
- 61.7% efficient two lamp T8 2' x 2' luminaire.
- 55.9% efficient three lamp T8 2' x 2' luminaire.
- Only 5" deep.
- Tension screws secure ends to body.
- Perforated lamp shield hinges from either side.
- Can be continuous row mounted.
- Built-in earthquake clips.
- Ballast accessible from room side.
- Optional supply air slot cover.
- Meets NYC Code.
- Construction to meet Chicago Plenum requirements is available.

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Air supply and return	2' x 2'	2-TT5 3-TT5	CFA2GPF2FT CFA2GPF3FT

Example **CFA2GPF2FT** **120** **SB** **A**

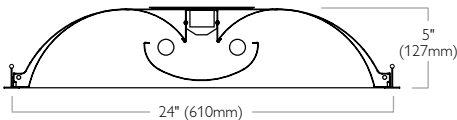
Coffaire II Air
Direct/indirect recessed air supply and return w/perforated mesh shield

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.81

Options
See page 4.81 and page 4.130

CFA2GPF217UNVHI



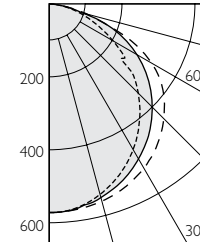
Reference data

Efficiency	61.7%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	30W
Ballast factor	.93

Candlepower Curve



Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Air supply and return	2' x 2'	2-T8 2-T5 2-T5HO	CFA2GPF217 CFA2GPF214 CFA2GPF224

Example **CFA2GPF217** **UNV** **HI** **A**

Coffaire II Air
Direct/indirect recessed air supply and return w/perforated mesh shield

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.81

Options
See page 4.81 and page 4.130

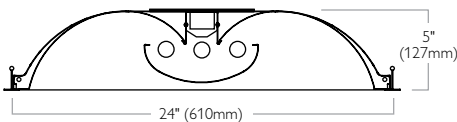
Ballast type <10THD <20THD

Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic TT5 40W	IB* , PR**	SB*
Electronic T5	PG	–

* Instant start.

** Program start.

CFA2GPF317UNVH3



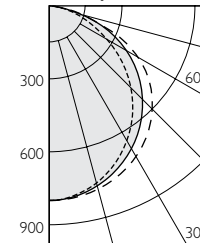
Reference data

Efficiency	55.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	46W
Ballast factor	1.0

Candlepower Curve



Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory.

Dust Shield: See folio number: **OA50-20**.

Optional supply air slot cover: Order Cat No: **CACS-2 CSP**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Air supply and return	2' x 4'	3-T8	CFA2GPF317

Example **CFA2GPF317** **UNV** **H3** **A**

Coffaire II Air
Direct/indirect recessed air supply and return w/perforated mesh shield

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.81

Options
See page 4.81 and page 4.130



Coffaire Drop Basket 2' x 4'

Direct/indirect recessed static luminaires

Coffaire Drop Basket offers T8 and T5 lamp options in a body that is only recessed 2-1/4". The 2-7/16" deep perforated basket creates uniform light distribution that brightens walls and ceilings. Evenly illuminating both horizontal and vertical surfaces, creating a soft, balanced brightness that enhances visual acuity while creating a visual statement on the ceiling line.

Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- 60.8% efficient two lamp T8 2' x 4' luminaire.
- 66.0% efficient three lamp T8 2' x 4' luminaire.
- 69.9% efficient two lamp 28W T5 2' x 4' luminaire.
- 66.4% efficient two lamp 54W T5HO 2' x 4' luminaire.
- Only 2-1/4" plenum depth.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Lamp shield hinges from either side.
- Wiring access plate standard.
- Optional DALI ballast iGEN Technology accepts digital dimming controllers, scene controllers and automatic control devices.
- Construction to meet Chicago Plenum available.
- Meets NYC Code requirements.
- Not for continuous row mounting.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

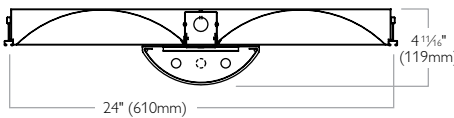
* Instant start.
** Program start.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical wiring options: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CDS2GPF228UNVPG



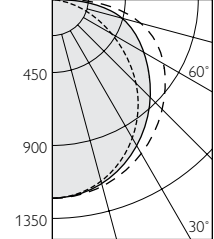
Reference data

Efficiency	69.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	122W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	CDS2GPF228
		3-T5	28W	CDS2GPF328
		2-T8	32W	CDS2GPF232
		3-T8	32W	CDS2GPF332
		1-T5HO	54W	CDS2GPF154
		2-T5HO	54W	CDS2GPF254

Example

CDS2GPF228

Coffaire Drop Basket
Direct/indirect recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

PG

Ballast
See page 4.82

A

Options
See page 4.82
and page 4.130



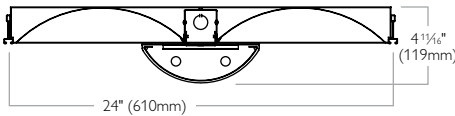
Coffaire Drop Basket 2' x 2'

Direct/indirect recessed static luminaires

Coffaire Drop Basket offers T8 and T5 lamp options in a body that is only recessed 2-1/4". The 2-7/16" deep perforated basket creates uniform light distribution that brightens walls and ceilings. Evenly illuminating both horizontal and vertical surfaces, creating a soft, balanced brightness that enhances visual acuity while creating a visual statement on the ceiling line.



CDS2GPF214UNVPG



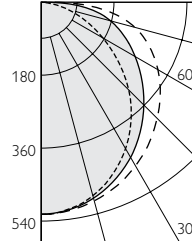
Reference data

Efficiency	62.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	33W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	CDS2GPF214
		2-T5HO	24W	CDS2GPF224
		2-TT5	40W	CDS2GPF2FT
		2-T8	17W	CDS2GPF217
		3-T8	17W	CDS2GPF317

Example

CDS2GPF214

Coffaire Drop Basket
Direct/indirect recessed

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.83

A

Options
See page 4.83
and page 4.130

Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- 59.4% efficient two lamp T8 2' x 2' luminaire.
- 55.5% efficient three lamp T8 2' x 2' luminaire.
- 62.9% efficient two lamp T5 2' x 2' luminaire.
- 62.6% efficient two lamp T5HO 2' x 2' luminaire.
- 55.0% efficient two lamp TT5 2' x 2' luminaire.
- Only 2-1/4" plenum depth.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Lamp shield hinges from either side.
- Wiring access plate standard.
- Optional DALI ballast iGEN Technology accepts digital dimming controllers, scene controllers and automatic control devices.
- Construction to meet Chicago Plenum available.
- Meets NYC Code requirements.
- Not for continuous row mounting.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic TT5 40W	IB* , PR**	SB*
Electronic T5	PG	–

* Instant start.

** Program start.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical wiring options: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).





Coffaire Drop Basket 2' x 4'

Direct/indirect surface mounted static luminaires

Coffaire Drop Basket ~ Surface Mounted offers T8 and T5 lamp options in a body that is only 2-17/32" deep. The 2-7/16" deep perforated basket creates uniform light distribution that brightens walls and ceilings. Evenly illuminating both horizontal and vertical surfaces, creating a soft, balanced brightness that enhances visual acuity while creating a visual statement on the ceiling line.

Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- 68.0% efficient two lamp 32W T8 2' x 4' luminaire.
- 69.9% efficient two lamp 28W T5 2' x 4' luminaire.
- Lamp shield hinges from either side.
- Optional DALI ballast iGEN Technology accepts digital dimming controllers, scene controllers and automatic control devices.
- Meets NYC Code requirements.
- Not for continuous row mounting.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic T5	PG	–

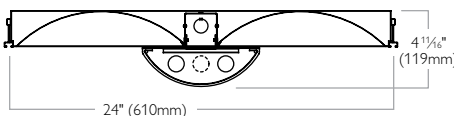
* Instant start.
** Program start.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CDB2SPF232UNVHI



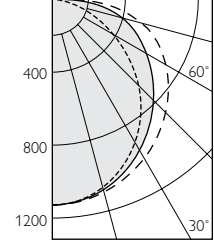
Reference data

Efficiency	68.0%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	50.4W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T8	32W	CDB2SPF232
		3-T8		CDB2SPF332

Example

CDB2SPF232

Coffaire Drop Basket
Direct/indirect Surface
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

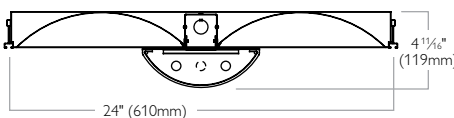
HI

Ballast
See page 4.84

A

Options
See page 4.84
and page 4.130

CDB2SPF228UNVPG



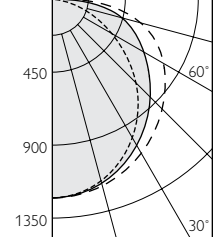
Reference data

Efficiency	69.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	122.1W
Ballast factor	1

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	CDB2SPF228
		3-T5	28W	CDB2SPF328
		1-T5HO	54W	CDB2SPF154
		2-T5HO	54W	CDB2SPF254

Example

CDB2SPF228

Coffaire Drop Basket
Direct/indirect Surface
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.84

A

Options
See page 4.84
and page 4.130

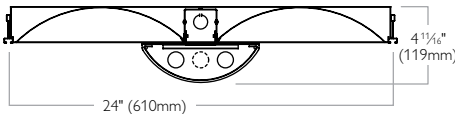
Coffaire Drop Basket 2' x 2'

Direct/indirect surface mounted static luminaires

Coffaire Drop Basket ~ Surface Mounted offers T8 and T5 lamp options in a body that is only 2-17/32" deep. The 2-7/16" deep perforated basket creates uniform light distribution that brightens walls and ceilings. Evenly illuminating both horizontal and vertical surfaces, creating a soft, balanced brightness that enhances visual acuity while creating a visual statement on the ceiling line.



CDB2SPF217UNVHI



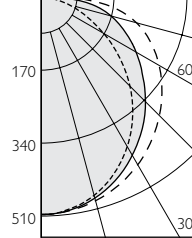
Reference data

Efficiency 59.4%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 30.8W
Ballast factor 0.88

Candlepower Curve



Features

- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shields with white acrylic overlay.
- 59.4% efficient two lamp T8 2' x 2' luminaire.
- 62.9% efficient two lamp T5 2' x 2' luminaire.
- Lamp shield hinges from either side.
- Optional DALI ballast iGEN Technology accepts digital dimming controllers, scene controllers and automatic control devices.
- Meets NYC Code requirements.
- Not for continuous row mounting.

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-T8 3-T8	17W	CDB2SPF217 CDB2SPF317

Example

CDB2SPF217

Coffaire Drop Basket
Direct/indirect Surface
w/perforated mesh shield

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI

Ballast
See page 4.85

A

Options
See page 4.85
and page 4.130

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp T8	H3* , P3**	O3*
Electronic TT5 40W	IB* , PR**	SB*
Electronic T5	PG	–

* Instant start.

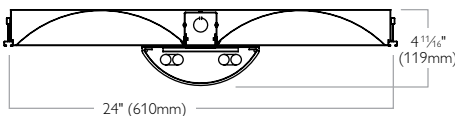
** Program start.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CDB2SPF214UNVPG



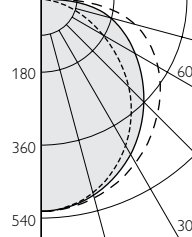
Reference data

Efficiency 62.9%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 33.2W
Ballast factor 1.06

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5 2-T5HO 2-Twin tube T5	14W 24W 40W	CDB2SPF214 CDB2SPF224 CDB2SPF2FT

Example

CDB2SPF214

Coffaire Drop Basket
Direct/indirect Surface
w/perforated mesh shield

UNV

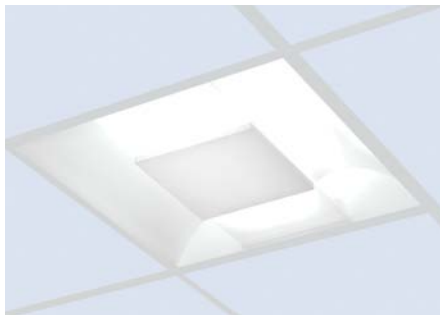
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PG

Ballast
See page 4.85

A

Options
See page 4.85
and page 4.130



Coffaire SQ 2' x 2'

Direct/indirect recessed static luminaires

Coffaire SQ offers a white translucent acrylic lens that blends into the reflector paint finish to provide a unique free floating appearance to the attached 10" square perforated mesh steel center panel in an aesthetically pleasing direct/indirect luminaire.

Features

- 75.6% efficient two lamp 24W T5HO 2' x 2' luminaire.
- 75.2% efficient two lamp 14W T5 2' x 2' luminaire.
- 72.7% efficient two lamp 17WT8 2' x 2' luminaire.
- Direct/indirect fixture with a softly contoured interior.
- Lens hinges from either side of fixture.
- Only 5" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling.
- Built-in earthquake clips.
- Can be continuous row mounted.
- Wiring access plate standard.
- Meets NYC Code requirements.
- Construction to meet Chicago Plenum requirement is available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
1 - 3 Lamp T8	H3*, P3**	O3*
Electronic TT5 40W	IB*, PR**	SB*
Electronic T5	PG	-

* Instant start.
** Program start.

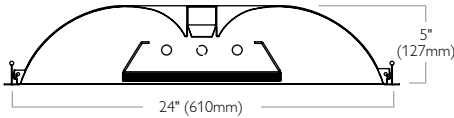
Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Packaging: Individual carton is standard.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CFS2GSQ224UNVPG



Reference data

Efficiency 75.6%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 49.8W
Ballast factor 1

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	CFS2GSQ214
		3-T5	14W	CFS2GSQ314
		2-T5HO	24W	CFS2GSQ224
		3-T5HO	24W	CFS2GSQ324

Example

CFS2GSQ224

Coffaire SQ
Direct/indirect recessed
w/acrylic lens and perforated
steel center panel

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

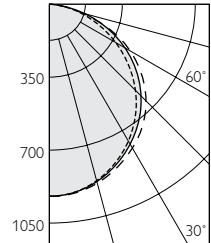
PG

Ballast
See page 4.86

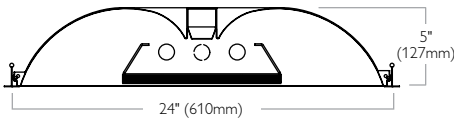
A

Options
See page 4.86
and page 4.130

Candlepower Curve



CFS2GSQ217UNVHI



Reference data

Efficiency 72.7%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 30.3W
Ballast factor 0.91

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-T8	17W	CFS2GSQ217
		3-T8		CFS2GSQ317

Example

CFS2GSQ217

Coffaire SQ
Direct/indirect recessed
W/acrylic lens and perforated
steel center panel

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

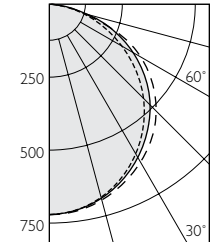
HI

Ballast
See page 4.86

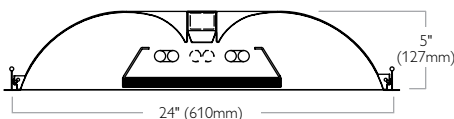
A

Options
See page 4.86
and page 4.130

Candlepower Curve



CFS2GSQ2FT120SB



Reference data

Efficiency 71.6%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 67.0W
Ballast factor 0.88

Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Static	2' x 2'	2-Twin tube T5	40W	CFS2GSQ2FT
		3-Twin tube T5		CFS2GSQ3FT

Example

CFS2GSQ2FT

Coffaire SQ
Direct/indirect recessed
w/acrylic lens and perforated
steel center panel

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

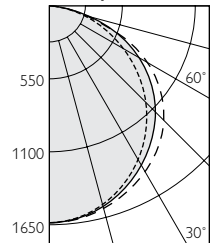
PR

Ballast
See page 4.86

A

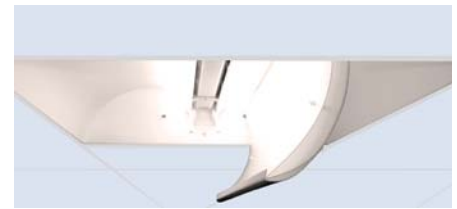
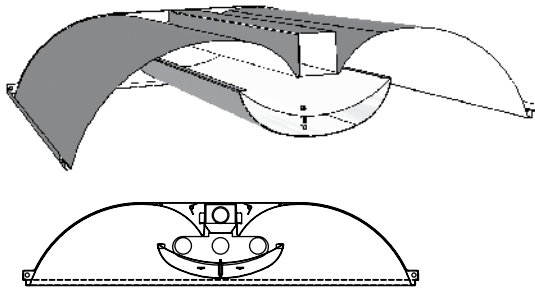
Options
See page 4.86
and page 4.130

Candlepower Curve



Coffaire Dust/Insect Shield D

For Coffaire series



Features

- Masks unsightly insects and debris from appearing on the perforated basket.
- For use with Coffaire Series.
- .040 Translucent white acrylic secondary liner

Ordering information

To specify dust/insect shield change
PF in the catalog no. to **PD**

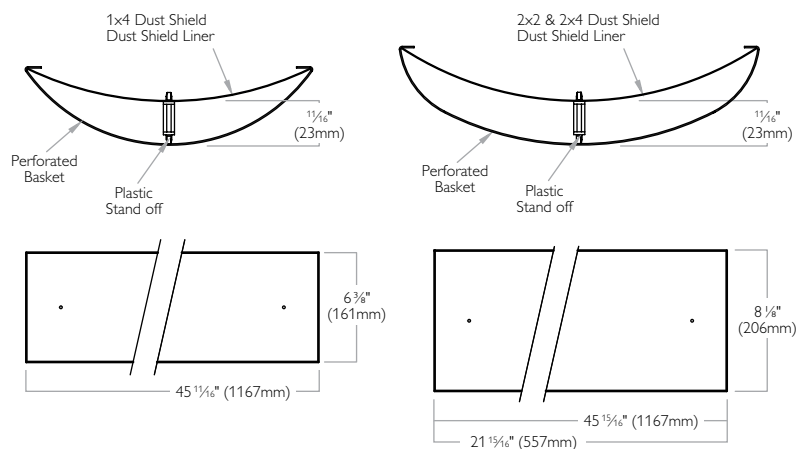
Example

Standard		With dust/insect shield
CFS2G	PF	CFS2G
2FTUNVIB		PD
2FTUNVIB		2FTUNVIB
CFS2G	PF	CFS2G
232UNVHI		PD
232UNVHI		232UNVHI

Compatible with Coffaire Series

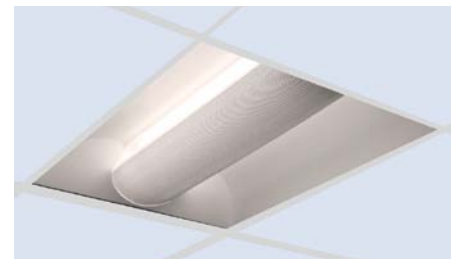
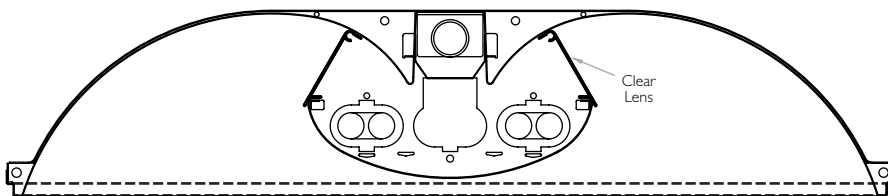
Prefix **CFS**, **CFH**, **CFA** **1X4**, **2X2** and **2X4** Sizes

Photometry: Use standard photometric tests and multiply light loss factor by 0.98



Coffaire Dust Guard G

For static Coffaire series



Features

- Minimizes penetration of dust, insects and other debris into the lamp compartment.
- Encloses lamp compartment.
- Impact resistant clear acrylic lens.
- Hinges at end caps.
- Does not interfere with basket removal and relamping

Ordering information

To specify dust/insect shield change
PF in the Catalog no. to **PG**

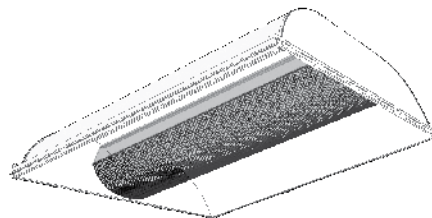
Example

Standard		With dust/insect shield
CFS2G	PF	CFS2G
2FTUNVIB		PG
2FTUNVIB		2FTUNVIB
CFS2G	PF	CFS2G
232UNVHI		PG
232UNVHI		232UNVHI

Compatible with Coffaire Series

Prefix **CFS**, **2X2** and **2X4** Sizes

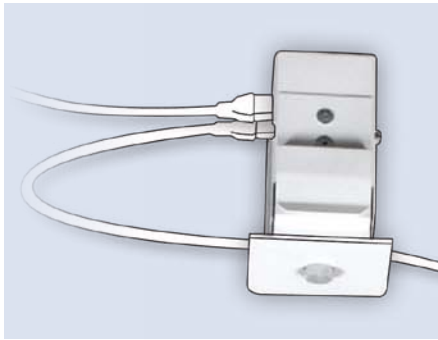
Photometry: Use standard photometric tests and multiply light loss factor by 0.98



DL Daylighting System

Direct/indirect recessed luminaires

Even when you have selected the most energy efficient luminaire/ballast/lamp combination for your space, additional energy savings can be made by utilizing natural daylight through use of controls. In the past, many have felt “Daylighting” was too complicated because of the wiring required for the interface of the fixtures to the control sensors, the adjustability of the sensors and the inflexibility if you relocated furniture or it did not quite work to your satisfaction.



ULM-EZR Module can be relocated at any time with out use of tools.

ULM-EZR Module blends in with the ceiling system. With a low profile and visible flat dimension of 3" X 3.2" the **ULM-EZR** causes a minimal interruption to the ceiling plane.

DL Daylighting System

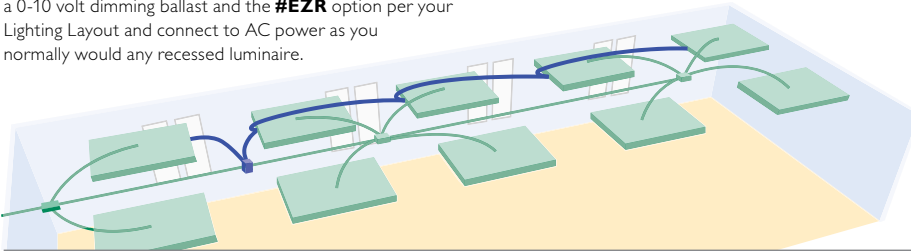
Direct/indirect recessed luminaires

Now, Philips Lightolier makes daylighting as easy as 1-2-3.



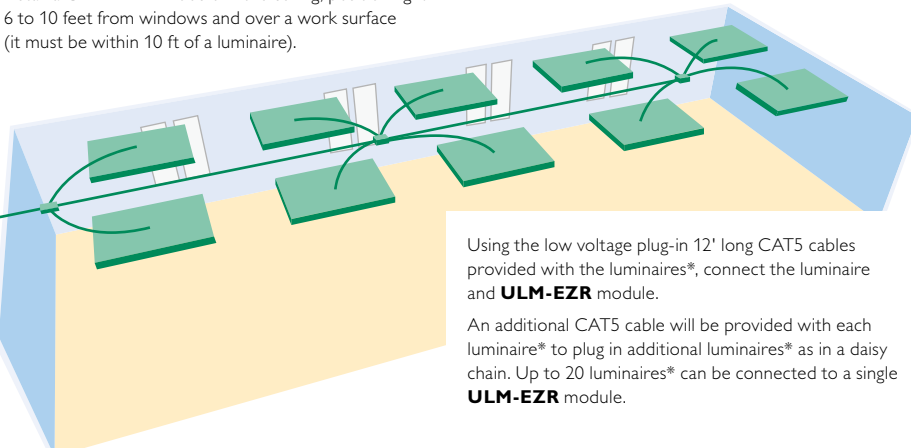
Step 1

Install Philips Lightolier recessed luminaires* which include a 0-10 volt dimming ballast and the **#EZR** option per your Lighting Layout and connect to AC power as you normally would any recessed luminaire.



Step 2

Install a **ULM-EZR** module in the ceiling, positioning it 6 to 10 feet from windows and over a work surface (it must be within 10 ft of a luminaire).



Using the low voltage plug-in 12' long CAT5 cables provided with the luminaires*, connect the luminaire and **ULM-EZR** module.

An additional CAT5 cable will be provided with each luminaire* to plug in additional luminaires* as in a daisy chain. Up to 20 luminaires* can be connected to a single **ULM-EZR** module.

ULM-EZR modules can be moved or added at any time merely by plugging or unplugging the CAT5 cables.

Both **ULM-EZR** modules and fixtures have RJ45 dual receptacles for the CAT5 cable with RJ45 plugs.

ULM-EZR module sensor placement guidelines

Before adjusting sensor settings, check to make sure they have been installed in accordance with the following guidelines:

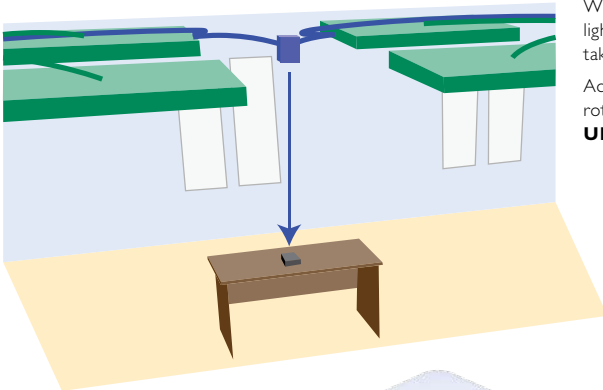
Sensor **SHOULD** be located.

- Between 6-10' away from window.
- Over work surfaces.

Sensor **should NOT** be located.

- Over very dark surfaces (e.g. dark carpet or furniture).
- Over highly reflective surfaces (e.g. polished floor or table).
- Outside the daylight zone (typically beyond 15' from window)

Step 3



When there is no daylight, place a lightmeter on the work surface and take a footcandle reading.

Adjust to desired footcandle level by rotating the sensor in the face of the **ULM-EZR** Module.



To get **MORE** light on desk from the luminaire, close aperture by rotating it counter-clockwise. The lamps will get brighter.



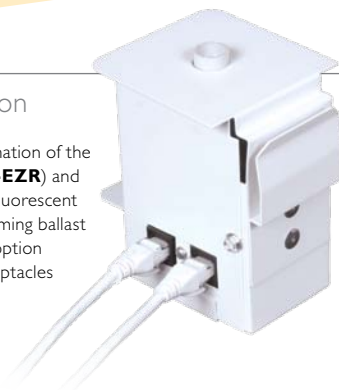
To get **LESS** light on desk from the luminaire, open aperture by rotating it clockwise. The lamps will dim down.



The sensors are factory pre-calibrated to 45fc on the horizontal, assuming standard reflectances (80/50/20), ceiling heights (8-10') and work surfaces (2.5'). To return to the default setting, rotate the aperture until it 'clicks' back into place at the mid-point.

Ordering information

The DL System is the combination of the **ULM-EZR** Module (**UF2F-EZR**) and a Philips Lightolier recessed fluorescent fixture* with a 0-10 volt dimming ballast and the **#EZR** option. This option includes integrated RJ45 receptacles and a 12' long CAT5 cable.



The module and luminaire need to be ordered separately.

ULM-EZR Module: UL2F-EZR

DL System fixture: Specify a Philips Lightolier recessed fluorescent fixture* with a 0-10 volt, 2 wire, dimming ballast and then add suffix **#EZR**. (e.g. **CFS2GPF232UNVM7-#EZR**)

M7 Denotes Advance Mark VII dimming ballast for this lamping configuration. Other lamping configurations and dimming ballast manufacturers available. *Consult your Philips Lightolier representative for list of DL System compatible 1' x 4', 2' x 2' and 2' x 4' recessed fluorescent fixtures (Alter exempt).

Recessed & wall washing

Recessed fluorescent luminaires represent just slightly less than 50% of all commercial and industrial fluorescents sold in the United States. They are usually the "A" fixture on a project. Their use has become popular over the years because the use of low ceiling heights dictates putting the fixture behind the ceiling instead of on it, and mechanical ceiling lay-in systems made the fixture less costly to install than surface or pendant luminaires.

Our recessed line consists of many different body sizes and shielding media, such as large or small cell aluminum parabolic louvers, plastic parabolic louvers, and a variety of lenses, all to meet a designer's application needs. Our vast product offering allows today's designer to carefully select luminaires that will enhance any space and perform to exceptional standards.





Contents

Lytecel 6	>	4.94	Prismalyte Plus	>	4.122
CTS3	>	4.100	Specplus	>	4.124
PTS family	>	4.102	XP & XP/XA	>	4.126
GO2 family	>	4.106	FRX	>	4.128
Vision Smart	>	4.110	Options & accessories	>	4.130
Stacklyte	>	4.117	Quick-connect inerties	>	4.131
Deepcel Plus	>	4.118	Wall washer & accent	>	4.132



Lighting for VDT areas

ANSI/IES RP-1, 2004 requirements for lighting VDT areas

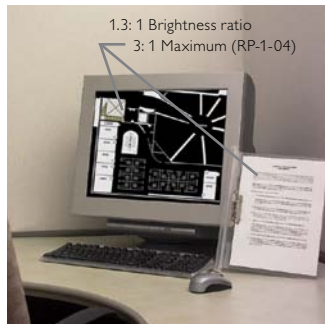
The near-universal use of computers in office areas today is a major change in the workplace. Whereas office lighting was formerly designed to suit visual conditions for paper tasks in the horizontal plane, it must now take into consideration visual tasks comprised of a reflective visual display terminal (VDT) in the vertical plane and paper tasks in the horizontal or vertical plane. This means that a new set of parameters must be considered both to limit distracting reflections in the visual display terminal (VDT) and because of the potential for eye adaption problems; otherwise, a loss of visual performance will occur, with attendant problems of eyestrain, fatigue and loss of productivity.

A number of authorities have concerned themselves with this issue, most notably the Illuminating Engineering Society, who in 1989 issued a recommended practice for lighting office areas containing visual display terminals, RP-24. This was replaced in 1993 and then in 2004 by the American National Standard for Office Lighting ANSI/IES RP-1 2004, which is accepted as the quality standard for the lighting of today's office.

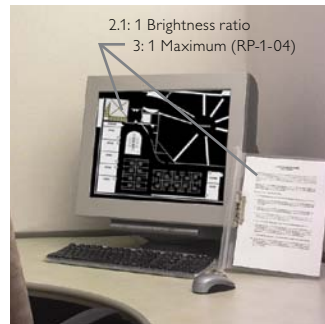
To reduce contrast between the VDT screen and the surrounding area and tasks

Illuminance: Average maintained illuminance levels should not exceed 50 footcandles on the horizontal plane. If a higher level is required because of older eyes or very demanding tasks, it should be provided by supplemental task lighting. In office work that requires constant viewing of the visual display (e.g.: telephone reservations or scientific and engineering dialogues with the computer) where paper based visual tasks are not important, illuminance should be kept as low as possible while still achieving good visual performance.

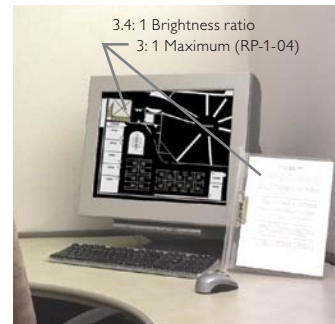
Luminance ratios: Not more than 3:1 between the task and adjacent surfaces; not more than 10:1 between the task and remote surfaces.



24 Horizontal footcandles
Philips Lightolier VP1 Lamp



49 Horizontal footcandles
Philips Lightolier VP2 Lamp



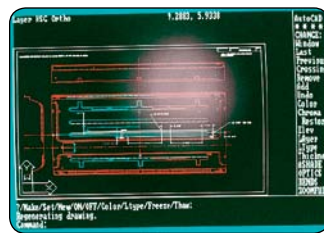
70 Horizontal footcandles
Typical 3 Lamp. Does not meet IES RP-1 2004 requirements.

To reduce direct glare from the lighting fixtures at normal viewing angles: **Visual Comfort Probability (VCP): 80, minimum.**

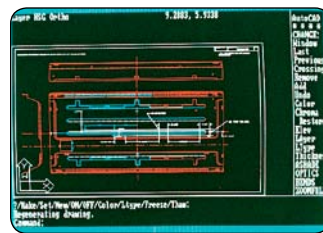
To minimize reflections of the lighting fixtures in the VDT screen.

Angle from Vertical	VDT Intensive	VDT Normal
55°	300 cd	—
65°	220 cd	300 cd
75°	135 cd	185 cd
85°	45 cd	60 cd

Note: This table shows candlepower values, not luminance values as in previous recommendations.



VDT screen in a space with fixtures that **do not** meet RP-1, 2004.



VDT screen in a space with fixtures that meet RP-1, 2004.

Philips Lightolier suggested LEED luminaires

Comparisons in office space

Direct/indirect recessed

90.1 1999 90.1 2004

Philips Lightolier catalog no.	Family	Lamp	Lamp lumens	Watts	BF	Luminaire spacing	fc*	w/sq ft	% LEED	% LEED
H9S2GPR228120WA	HP90	T5 28W	2600	54.6	0.93	8X10	55.2	0.683	47.47%	31.70%
H9S2GPR232(28)UNV	HP90	T5 28W	2725	51.1	0.88	8X10	50.6	0.639	50.85%	36.10%
PPH2G12FW228120WA	Paraplus	T5 28W	2600	55.4	0.93	8X10	48.9	0.693	46.69%	30.70%
H9S2GPR228120WA	HP90	T5 28W	2600	54.6	0.93	8X10	48.0	0.630	51.54%	37.00%
H9S2GPR232(28)UNV	HP90	T5 28W	2725	51.1	0.88	8X10	41.5	0.590	54.62%	41.00%
PPH2G12FW228120WA	Paraplus	T5 28W	2600	56	0.93	8X10	44.0	0.646	50.31%	35.40%
H9S2GPR228120WA	HP90	T5 28W	2600	54.6	0.93	8	44.2	0.910	30.00%	9.00%
H9S2GPR232(28)UNV	HP90	T5 28W	2725	51.1	0.88	8	37.9	0.852	34.46%	14.80%
PPH2G12FW228120WA	Paraplus	T5 28W	2600	56	0.98	8	42.3	0.933	28.23%	6.70%

Recessed direct

90.1 1999 90.1 2004

Philips Lightolier catalog no.	Family	Lamp	Lamp lumens	Watts	BF	Luminaire spacing	fc*	w/sq ft	% LEED	% LEED
DPA2G12LS232120WO	Deepcel	T8 30W	2900	52	0.88	8X10	50.9	0.650	50.00%	35.00%
DPA2G12LS232120DG	Deepcel	T8 32W	2950	77	1.20	8X10	70.6	0.963	25.92%	3.70%
SPS2GFSVA232120WO	Specline	T8 30W	2900	52	0.88	8X10	52.3	0.650	50.00%	35.00%
SPS2GFSVA232120DG	Specline	T8 32W	2950	77	1.20	8X10	72.6	0.963	25.92%	3.70%
DPA2G12LS232120WO	Deepcel	T8 30W	2900	52	0.88	8X10	46.1	0.600	53.85%	40.00%
DPA2G12LS232120DG	Deepcel	T8 32W	2950	77	1.20	8X10	62.9	0.888	31.69%	11.20%
SPS2GFSVA232120WO	Specline	T8 30W	2900	52	0.88	8X10	48.6	0.600	53.85%	40.00%
SPS2GFSVA232120DG	Specline	T8 32W	2950	77	1.20	8X10	64.7	0.888	31.69%	11.20%
DPA2G12LS232120WO	Deepcel	T8 30W	2900	52	0.88	8	46.8	0.867	33.31%	13.30%
SPS2GFSVA232120WO	Specline	T8 30W	2900	52	0.88	8	46.9	0.867	33.31%	13.30%

60' x 56' Room

30' x 26' Room

12' x 10' Room



Lytecel 6 Lens LED 6" x 48"

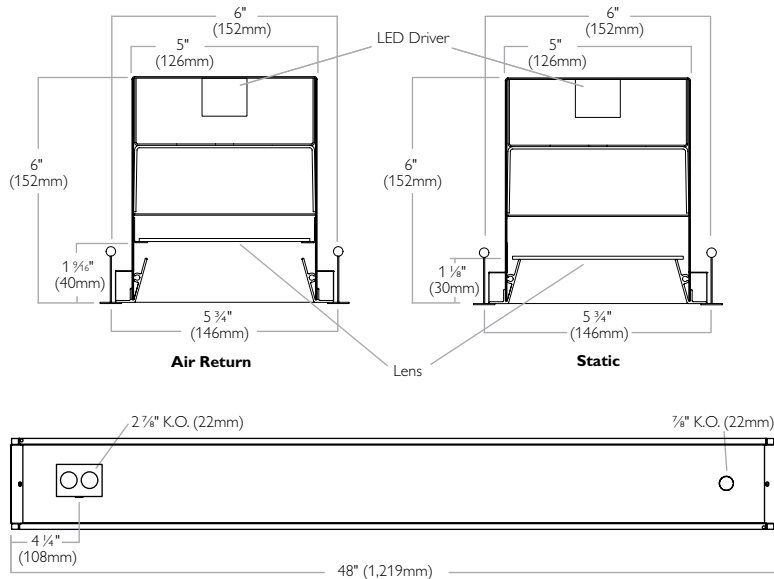
Direct recessed air return or static luminaires

The Lytecel 6 LED recessed lens brings both flexibility and unity to lighting. Create continuous lines of light with the recessed Lytecel 6 Lens LED. Its crisp, clean lines and minimalist design is sure to bring style, freshness and subtle distinction to modern office and retail interiors. A unique non-visible return air opening allows this product to have air return capabilities if needed. It fits most standard 6" X 48" lay in systems and is designed specifically for the Armstrong TechZone® ceiling systems.

Features

- Non-visible return air openings.
- Air return lens regressed 1-9/16", static regressed 1-3/16".
- Air return models meet UL 1598, Paragraph 9.2.2.5 requirements.
- Extruded aluminum fixture trim flat white polyester powder coated.
- Extruded .080 white opalescent acrylic lens.
- Only 6" deep body.
- Can provide 34 initial footcandles at 0.53 watts per square foot.
- Delivers 2864 lumens with just 44.9 input watts.
- Field replaceable LED array and drivers accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment.
- High efficiency LEDs have 50,000 hour rated life at L70.
- Predicted L70 lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- 20 gauge steel housing.
- UL-Listed twin knockout access plate.
- 2 hold-down clips standard.
- Meets NYC Code requirements.
- Compatible with Armstrong TechZone ceiling systems.
- Five-year warranty on luminaire, LED boards and driver.

LIA64GPN28A40ULAG



Ordering information

Type	Delivered lumens	Input watts	Lumens per watt	8'x10 1/2" initial footcandles*	8'x10 1/2" watts per sq. foot	Catalog no.
	2011	30.0	67.0	24	0.36	LIA64GPN20A40ULAG
Air return and	2500	38.4	65.1	30	0.46	LIA64GPN25A40ULAG
Static	2864	44.9	63.8	34	0.53	LIA64GPN28A40ULAG
	3174	50.8	62.5	38	0.60	LIA64GPN31A40ULAG

For Static Handling housing models substitute LIS64 for LIA64.

* 42 Recessed LED Luminaires in a 60' x 56' x 9' room with a reflectance of 80/50/20, placed 8' x 10' on center. Footcandle readings are taken 2 1/2' from floor level.

Options & accessories

Drywall kit: For individual mounts only: **FK906X4**.

Access plate: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order catalog no.: **ACP5 CSP**.

EM Pack or dimming ballast: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

Example	LIA64G			40	U	LAG	
	Lytecel 6 LED	Lens shielding	Lumen¹	Color temp^{1,2}	Voltage	Driver²	Options
	Direct	PN = .08 White	20A = 20k lm	40 = 4000K	UNV =	LAG =	See page 4.94
	Recessed	Acrylic	25A = 25k lm		120-277V	LED Driver	
			28A = 28k lm				
			31A = 31k lm				

1. Approximate delivered values (Consult IES file).

2. Consult representative for other color temperature options and driver dimming options.

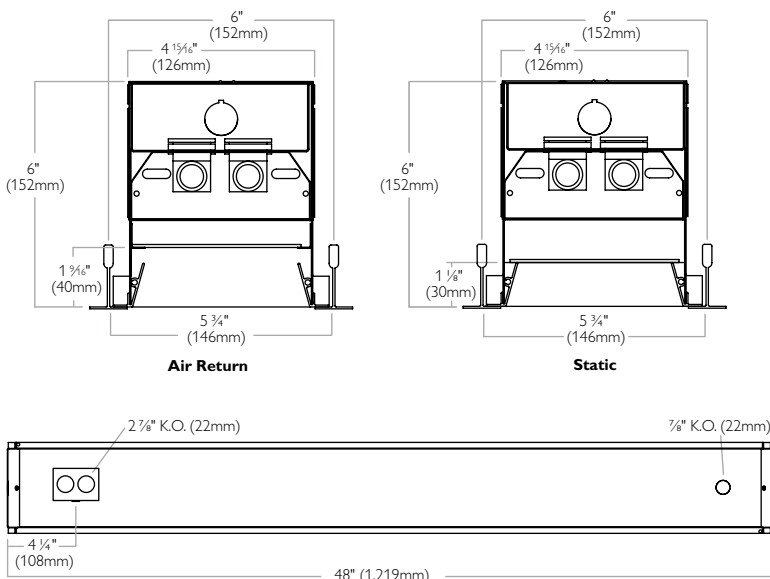
Lytecel 6 Lens 6" x 48"

Direct recessed air return or static luminaires

Lytecel 6 Lens is an extension of our popular Lytecel 6 parabolic product line. Lytecel 6 Lens offers a low in brightness extruded white opalescent acrylic lens, allowing the right amount of light to be delivered to walls and work surfaces in an office environment. A unique non-visible return air opening allows this product to have air return capabilities if needed. It fits most standard 6" X 48" lay in systems and is designed specifically for the Armstrong TechZone® ceiling systems.



LIA6GPNXR254UNVPG



Features

- Non-visible return air openings.
- Lens regressed 1 9/16".
- Fixture trim flat white polyester powder coated.
- Extruded.080 white opalescent acrylic lens.
- Only 6" deep body.
- 64.3% efficient 1 lamp 54 Watt T5HO with lens.
- 1.2 spacing mounting ratio.
- 20 gauge steel housing.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Can be mounted in continuous rows.
- 2 hold-down clips standard.
- Compatible with Armstrong TechZone® ceiling systems.
- Meets NYC Code requirements.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

Options & accessories page 4.130

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
Elec. PS T8 32W (1 or 2 Lamp)	P2	–
Elec. T5 P.S. 28W or 54W	PG	–

* Instant start

Drywall kit: For individual mounts only: **FK906X4**.

Access plate: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order catalog no.: **ACP5 CSP**.

Electrical/wiring options: Consult factory.

EM Pack or dimming ballast: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

Ordering information

Type	Lamp qty–type	Lamp watts	Standard grid ceiling = G	Slot grid ceiling = T
Air return	2-T5HO	54W	LIA6GPNXR254	LIA6TPNXR254
	1-T5HO	54W	LIA6GPNXR154	LIA6TPNXR154
	2-T5	28W	LIA6GPNXR228	LIA6TPNXR228
	1-T5	28W	LIA6GPNXR128	LIA6TPNXR128
	2-T8	32W	LIA6GPNXR232	LIA6TPNXR232
	1-T8	32W	LIA6GPNXR132	LIA6TPNXR132
Static	2-T5HO	54W	LIS6GPNXR254	LIS6TPNXR254
	1-T5HO	54W	LIS6GPNXR154	LIS6TPNXR154
	2-T5	28W	LIS6GPNXR228	LIS6TPNXR228
	1-T5	28W	LIS6GPNXR128	LIS6TPNXR128
	2-T8	32W	LIS6GPNXR232	LIS6TPNXR232
	1-T8	32W	LIS6GPNXR132	LIS6TPNXR132

* For any additional ceiling systems not shown please consult factory.

Example **LIA6GPNXR154**

Lytecel 6
6" x 48" Recessed Lens

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elect T5 or T8)

PG
Ballast
See page 4.95

A
Options
See page 4.95
and page 4.130



Lytecel 6 individual T5 6" x 48"

Recessed parabolic luminaires

Features a low brightness 20 cell parabolic louver that has an opening that is only 4¼" wide. The precise contours provide photometrics that meet the IES requirements for lighting VDT areas. It fits most standard 6" X 48" lay-in ceiling systems plus Armstrong TechZone® ceiling systems.

Features

- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5-1/2" deep body.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Can be mounted in continuous rows.
- 2 hold-down clips standard.
- Compatible with Armstrong TechZone® ceiling systems.
- Meets NYC Code requirements.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

Options & accessories page 4.130

Louvers: LI is available in either specular (**P**) or semi-specular (**L**) louvers.
(e.g. **LIS6G20PW228** or **LISG20LW228**)

Ballast type	<10THD	<20THD
Electronic PS T5 (1 or 2 Lamp) (28W or 54W)	PG	–

Drywall kit: For individual mounts only: **FK906X4**.

Access plate: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order Catalog no.: **ACPS CSP**.

Electrical/wiring options: Consult factory.

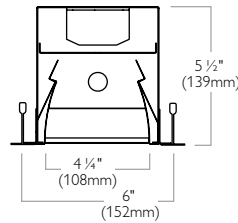
EM Pack or dimming ballast: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

LIS6G20PW154UNVPG



Standard T-Grid ceiling

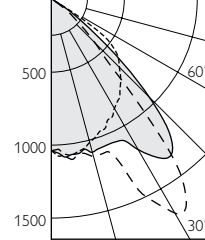
1 Lamp T5 specular louver reference data

Efficiency	58.2%
Spacing ratio	1.6

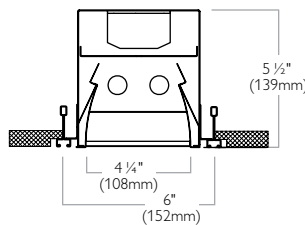
Electronic ballast

Input watts (120V)	59.0W
Ballast factor	1.0

Candlepower Curve



LIS6G20PW228UNVPG



Slot Grid ceiling

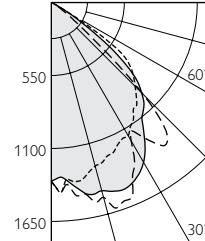
2 Lamp T5 specular louver reference data

Efficiency	55.3%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	66.0W
Ballast factor	1.0

Candlepower Curve



Example **LIS6G20PW154**
Lytecel 6
6" x 48" Recessed parabolic

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elect T5)

PG

Ballast
See page 4.96

Options

See page 4.96
and page 4.130

Ordering information

Type	Lamp qty-type	Lamp watts	Standard grid ceiling = G	Slot grid ceiling = T	Tegular 9/16" ceiling = D	Tegular 15/16" ceiling = A
Static	1-T5	28W	LIS6G20PW128UNVPG	LIS6T20PW128UNVPG	LIS6D20PW128UNVPG	LIS6A20PW128UNVPG
	2-T5	28W	LIS6G20PW228UNVPG	LIS6T20PW228UNVPG	LIS6D20PW228UNVPG	LIS6A20PW228UNVPG
	1-T5	54W	LIS6G20PW154UNVPG	LIS6T20PW154UNVPG	LIS6D20PW154UNVPG	LIS6A20PW154UNVPG
	2-T5	54W	LIS6G20PW254UNVPG	LIS6T20PW254UNVPG	LIS6D20PW254UNVPG	LIS6A20PW254UNVPG
Air handling	1-T5	28W	LIA6G20PW128UNVPG	LIA6T20PW128UNVPG	LIA6D20PW128UNVPG	LIA6A20PW128UNVPG
	2-T5	28W	LIA6G20PW228UNVPG	LIA6T20PW228UNVPG	LIA6D20PW228UNVPG	LIA6A20PW228UNVPG
	1-T5	54W	LIA6G20PW154UNVPG	LIA6T20PW154UNVPG	LIA6D20PW154UNVPG	LIA6A20PW154UNVPG
	2-T5	54W	LIA6G20PW254UNVPG	LIA6T20PW254UNVPG	LIA6D20PW254UNVPG	LIA6A20PW254UNVPG

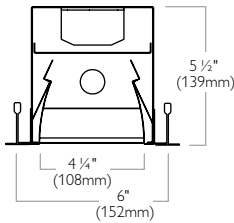
Lytecel 6 individual T8 6" x 48"

Recessed parabolic luminaires

Features a low brightness 20 cell parabolic louver that has an opening that is only 1/4" wide. The precise contours provide photometrics that meet the IES requirements for lighting VDT areas. It fits most standard 6" X 48" lay-in ceiling systems plus Armstrong TechZone® ceiling systems.



LIS6G20PW132UNVHI



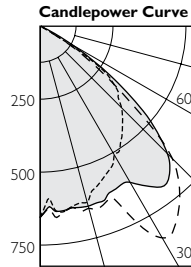
Standard T-Grid ceiling

1 Lamp T8 specular louver reference data

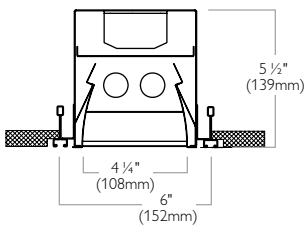
Efficiency	57.6%
Spacing ratio	1.7

Electronic ballast

Input watts (120V)	39.0W
Ballast factor	1.1



LIS6G20PW232UNVHI



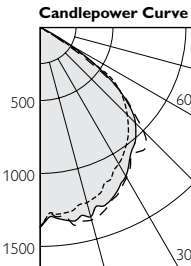
Slot Grid ceiling

2 Lamp T8 specular louver reference data

Efficiency	51.6%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	78.0W
Ballast factor	1.1



Features

- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5-1/2" deep body.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Can be mounted in continuous rows.
- 2 hold-down clips standard.
- Compatible with Armstrong TechZone® ceiling systems.
- Meets NYC Code requirements.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

Options & accessories page 4.130

Louvers: LI is available in either specular (P) or semi-specular (L) louvers.
(e.g. LIS6G20PW228 or LISG20LW228)

Ballast type	<10THD	<20THD
Elec. IS T8 32W (1 or 2 Lamp)	HI	SO
Elec. PS T8 32W (1 or 2 Lamp)	P2	–

Example

LIS6G20PW132

Lytecel 6
6" x 48" Recessed parabolic

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elect T8)

HI

Ballast
See page 4.97

Options

See page 4.97
and page 4.130

Drywall kit: For individual mounts only: **FK906X4**.

Access plate: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately.
Order Catalog no.: **ACP5 CSP**.

Electrical/wiring options: Consult factory.

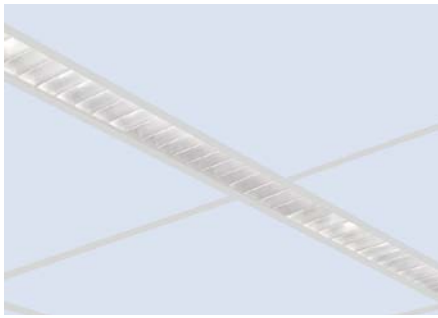
EM Pack or dimming ballast: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

Ordering information

Type	Lamp qty–type	Lamp watts	Standard grid ceiling = G	Slot grid ceiling = T	Tegular 9/16" ceiling = D	Tegular 15/16" ceiling = A
Static	1-T8	32W	LIS6G20PW132UNVHI	LIS6T20PW132UNVHI	LIS6D20PW132UNVHI	LIS6A20PW132UNVHI
	2-T8		LIS6G20PW232UNVHI	LIS6T20PW232UNVHI	LIS6D20PW232UNVHI	LIS6A20PW232UNVHI
Air handling	1-T8	32W	LIA6G20PW132UNVHI	LIA6T20PW132UNVHI	LIA6D20PW132UNVHI	LIA6A20PW132UNVHI
	2-T8		LIA6G20PW232UNVHI	LIA6T20PW232UNVHI	LIA6D20PW232UNVHI	LIA6A20PW232UNVHI



Lytecel 6 continuous T5 6" x 48"

Recessed parabolic luminaires

Features a low brightness 20 cell parabolic louver that has an opening that is only 4 1/4" wide and a length of 48". When mounted in continuous rows it creates an uninterrupted continuous louver appearance. It will fit most 6" wide lay-in or slot grid ceiling systems and has unique aligning and clamping hardware that creates the proper fit of the fixture into the ceiling system.

Features

- 48" long louver gives an uninterrupted louver appearance when row mounted. Ideal for continuous row applications.
- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5-1/2" deep body.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Can be mounted in continuous rows.
- 2 hold-down clips standard.
- Meets NYC Code requirements.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

Options & accessories page 4.130

Louvers: **LC** is available in either specular (**P**) or semi-specular (**L**) louvers.
(e.g. **LCS6G20PW228** or **LCS6G20LW228**)

Ballast type	<10THD	<20THD
Elec. IS T5 28W (1 or 2 Lamp)	PI	SO
Elec. PS T5 28W or 54W (1 or 2 Lamp)	PG	–
Elec IS T8 32W (1 or 2 Lamp)	HI	–

Access plate: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order Catalog no.: **ACP5 CSP**.

Electrical/wiring options: Consult factory.

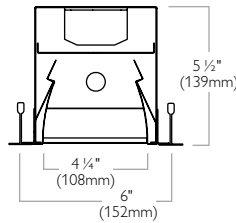
EM Pack or dimming ballast: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

LCS6G20PW154UNVPG



Standard T-Grid ceiling

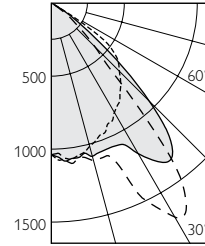
1 Lamp T5 specular louver reference data

Efficiency	58.2%
Spacing ratio	1.6

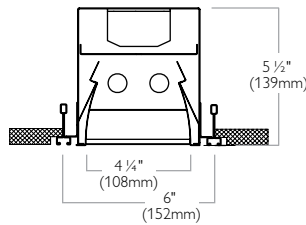
Electronic ballast

Input watts (120V)	59.0W
Ballast factor	1.0

Candlepower Curve



LCS6G20PW228UNVPG



Slot Grid ceiling

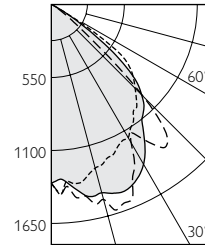
2 Lamp T5 specular louver reference data

Efficiency	55.3%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	66.0W
Ballast factor	1.0

Candlepower Curve



Ordering information

Type	Lamp qty–type	Lamp watts	Standard grid ceiling = G	Slot grid ceiling = T
Static	1-T5	28W	LCS6G20PW128UNVPG	LCS6T20PW128UNVPG
	2-T5	28W	LCS6G20PW228UNVPG	LCS6T20PW228UNVPG
	1-T5	54W	LCS6G20PW154UNVPG	LCS6T20PW154UNVPG
	2-T5	54W	LCS6G20PW254UNVPG	LCS6T20PW254UNVPG
Air handling	1-T5	28W	LCA6G20PW128UNVPG	LCA6T20PW128UNVPG
	2-T5	28W	LCA6G20PW228UNVPG	LCA6T20PW228UNVPG
	1-T5	54W	LCA6G20PW154UNVPG	LCA6T20PW154UNVPG
	2-T5	54W	LCA6G20PW254UNVPG	LCA6T20PW254UNVPG

Example

LCS6G20PW154

Lytecel 6
6" x 48" Recessed parabolic

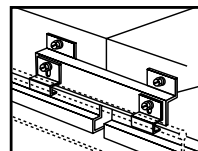
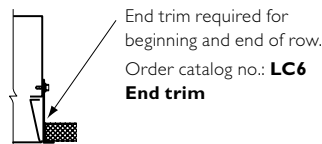
UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elect T5 or T8)

PG

Ballast
See page 4.98

Options
See page 4.98
and page 4.130

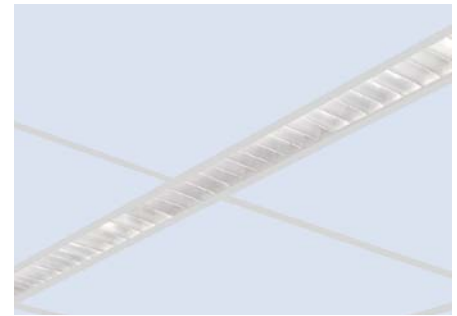


Continuous row coupler locks fixtures together for a continuous line of light without cell configuration interruption, supplied with fixture.
(For end of row order **LC85 CLAMP**)

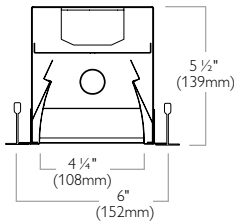
Lytecel 6 continuous T8 6" x 48"

Recessed parabolic luminaires

Features a low brightness 20 cell parabolic louver that has an opening that is only 4 1/4" wide and a length of 48". When mounted in continuous rows it creates an uninterrupted continuous louver appearance. It will fit most 6" wide lay-in or slot grid ceiling systems and has unique aligning and clamping hardware that creates the proper fit of the fixture into the ceiling system.



LCS6G20PW132UNVHI



Standard T-Grid ceiling

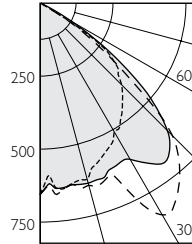
1 Lamp T8 specular louver reference data

Efficiency	57.6%
Spacing ratio	1.7

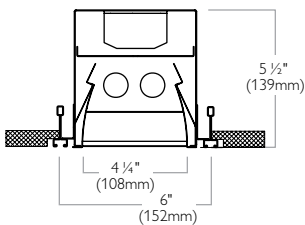
Electronic ballast

Input watts (120V)	39.0W
Ballast factor	1.1

Candlepower Curve



LCS6G20PW232UNVHI



Slot Grid ceiling

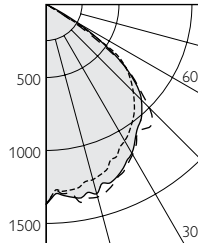
2 Lamp T8 specular louver reference data

Efficiency	51.6%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	78.0W
Ballast factor	1.1

Candlepower Curve



Features

- 48" long louver gives an uninterrupted louver appearance when row mounted. Ideal for continuous row applications.
- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5-1/2" deep body.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Can be mounted in continuous rows.
- 2 hold-down clips standard.
- Meets NYC Code requirements.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

Options & accessories page 4.130

Louvers: LC is available in either specular (P) or semi-specular (L) louvers. (e.g. LCS6G20PW232 or LCS6G20LW232)

Ballast type	<10THD	<20THD
Elec. IS T8 32W (1 or 2 Lamp)	HI	SO
Elec. PS T8 32W (1 or 2 Lamp)	P2	–

Access plate: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order catalog no.: **ACP5 CSP**.

Electrical/wiring options: Consult factory.

EM Pack or dimming ballast: Consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).

Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

Ordering information

Type	Lamp qty-type	Lamp watts	Standard grid ceiling = G	Slot grid ceiling = T
Static	1-T8	32W	LCS6G20PW132UNVHI	LCS6T20PW132UNVHI
	2-T8		LCS6G20PW232UNVHI	LCS6T20PW232UNVHI
Air handling	1-T8	32W	LCA6G20PW132UNVHI	LCA6T20PW132UNVHI
	2-T8		LCA6G20PW232UNVHI	LCA6T20PW232UNVHI

Example

LCS6G20PW132

Lytecel 6
6" x 48" Recessed parabolic

UNV

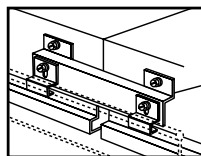
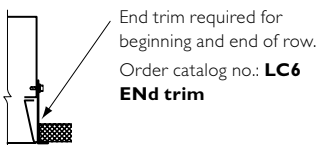
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elect T8)

HI

Ballast
See page 4.99

Options

See page 4.99
and page 4.130



Continuous row coupler locks fixtures together for a continuous line of light without cell configuration interruption, supplied with fixture.
(For end of row order **LC85 CLAMP**)



CTS3 2', 4' & 8'

1 lamp recessed luminaires

Features

Housing: 20 gauge pre-painted steel.

Bulkhead: 18 gauge galvanized steel

Reflector: Semi-specular aluminum.

Trim: Flange has an aluminum extruded width of 3/4".
Flangeless and grid mount has no trim visible. Grid mount fixture drops into grid system by others.

Lamping: T5 or T5 HO fluorescent.

Lens: Extruded frosted acrylic.

Louvers: Extruded Semi specular parabolic, 2" nominal blade spacing.

Electronic ballast: Extruded Programmed start, 3 conductors, 12 gauge wire. Color-coded quick connectors allow easy connection for modular fixture.

Emergency battery pack: 450 Lumens @ 90 minimum.

Labels included: UL, cUL, and IBEW

Ordering instructions

Continuous rows:

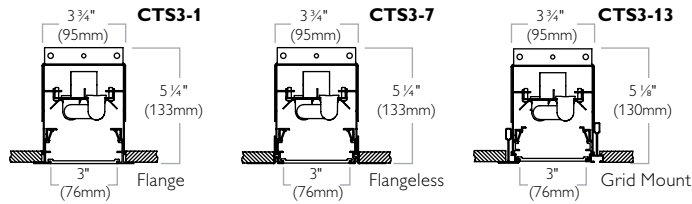
1. Determine run length.
2. Order starter fixture. .
3. Order one telescoping fixture*.
4. Order remainder of joiner fixtures.

Individual Fixtures:

1. Order number of INDIVIDUAL UNITS required

*For best one lamp effect, use telescoping fixture at longest length possible.

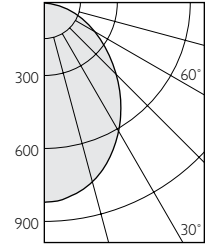
Flush Lens



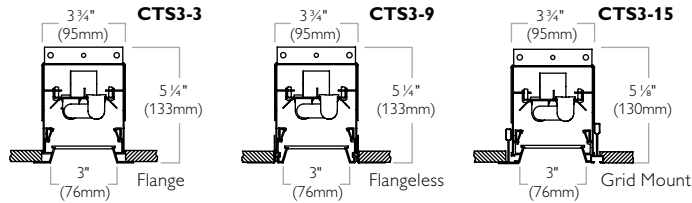
Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	1854	37.8	100.0
90-180	0	0.0	0
0-180	1854	37.8	100.0

Candlepower Curve



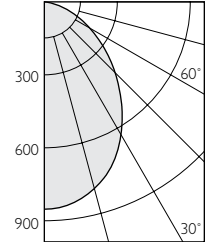
Regressed Lens



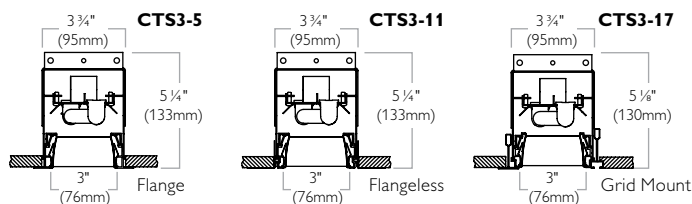
Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	1815	37.1	100.0
90-180	0	0.0	0
0-180	1815	37.1	100.0

Candlepower Curve



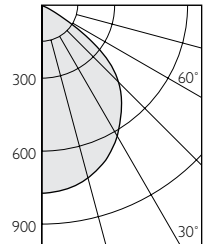
Parabolic Louver



Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	1880	38.4	100.0
90-180	0	0.0	0
0-180	1880	38.4	100.0

Candlepower Curve



Ordering information

CT3

Family

CT3 = CTS3

M

Mounting

F = Flange
L = Flangeless
G = Grid Mount

S

Shielding

L = Flush Lens
R = Recessed Lens
P = Parabolic Louver

A

Configuration

A = 1 Lamp¹

O

Output

H = High Output
S = Standard

L

Length (nom.)

2 = 2 Foot
4 = 4 Foot
8 = 8 Foot

H

Housing

U = Indiv. Unit
S = Starter²
J = Joiner
T = Telescoping³

V

Voltage

1 = 120V
2 = 277V

O

Options

4 = 4 through wires
5 = 5 through wires
T = Tandem Switch
E = Emergency Pack⁴

¹ Lamp is mounted diagonally and extends into adjacent fixture by 2 1/2" in starter, joiner and telescoping fixtures

² Starter available as 4' and 8' only

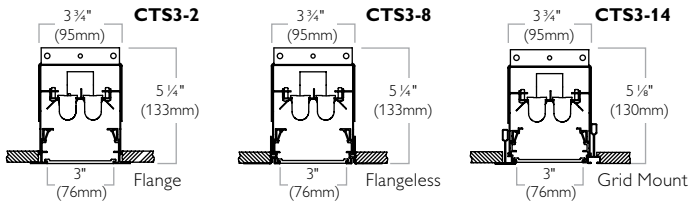
³ Telescoping fixture ships 85 3/8", adjustable down to 49 3/8"

⁴ EM pack not available in 2' or telescoping fixtures

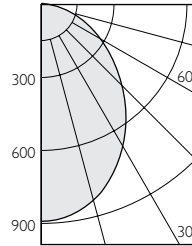
CTS3 2', 4' & 8'

2 lamp recessed luminaires

Flush Lens



Candlepower Curve



Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	3429	35.0	100.0
90-180	0	0.0	0
0-180	3429	35.0	100.0

Features

Housing: 20 gauge pre-painted steel.

Bulkhead: 18 gauge galvanized steel

Reflector: Semi-specular aluminum.

Trim: Flange has an aluminum extruded width of 3/4".

Flangeless and grid mount has no trim visible. Grid mount fixture drops into grid system by others.

Lamping: T5 or T5 HO fluorescent.

Lens: Extruded frosted acrylic.

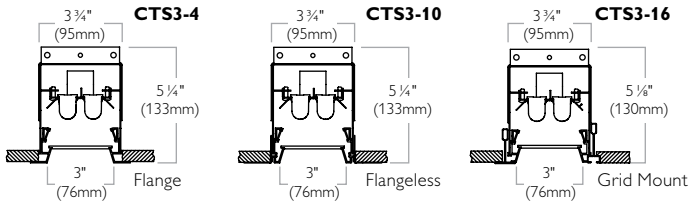
Louwer: Extruded Semi specular parabolic, 2" nominal blade spacing.

Electronic ballast: Extruded programmed start, 3 conductors, 12 gauge wire. Color-coded quick connectors allow easy connection for modular fixture.

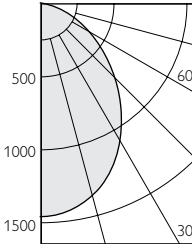
Emergency battery pack: 450 Lumens @ 90 minimum.

Labels included: UL, cUL, and IBEW

Regressed Lens



Candlepower Curve



Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	3158	32.2	100.0
90-180	0	0.0	0
0-180	3158	32.2	100.0

Ordering instructions

Continuous rows:

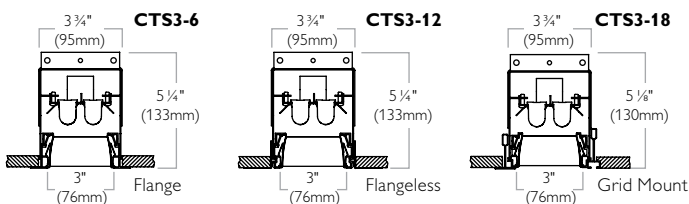
1. Determine run length.
2. Order starter fixture.
3. Order one telescoping fixture*.
4. Order remainder of joiner fixtures.

Individual fixtures:

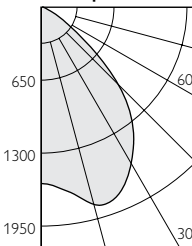
1. Order number of INDIVIDUAL UNITS required

*For best one lamp effect, use telescoping fixture at longest length possible.

Parabolic Louver



Candlepower Curve



Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	3483	35.5	100.0
90-180	0	0.0	0
0-180	3483	35.5	100.0

Ordering information

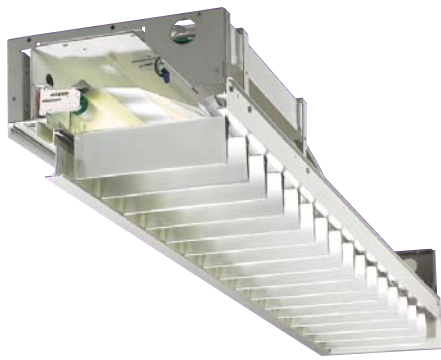
CT3			C					
Family	Mounting	Shielding	Configuration	Output	Length (nom.)	Housing	Voltage	Options
CT3 = CTS3	F = Flange L = Flangeless G = Grid Mount	L = Flush Lens R = Recessed Lens P = Parabolic Louver	C = 2 Lamp ¹	H = High Output S = Standard	2 = 2 Foot 4 = 4 Foot 8 = 8 Foot	U = Individ. Unit S = Starter ² J = Joiner T = Telescoping ³	1 = 120V 2 = 277V	4 = 4 through wires 5 = 5 through wires T = Tandem Switch E = Emergency Pack ⁴

¹ Lamp is mounted diagonally and extends into adjacent fixture by 2 1/2" in starter, joiner and telescoping fixtures

² Starter available as 4' and 8' only

³ Telescoping fixture ships 85 3/8", adjustable down to 49 3/8"

⁴ EM pack not available in 2' or telescoping fixtures



PTS7 2', 3', 4', 5' & 7'

Perimeter trough system

Features

Housing: Die-formed steel. Integral flanges at each end strengthen the housing and permit housings to be bolted together in continuous runs and facilitate suspension of fixture. Concealed openings for heat extraction.

Lamping: One or two T8 fluorescent lamps, as specified. Provided by others.

Reflector: Die-formed semi-specular aluminum.

Louvers: Semi-specular anodized aluminum, 40 degrees lengthwise by 30 degrees minimum crosswise shielding. Supported along both edges by concealed frame of extruded aluminum.

Socket Channels: Die-formed, prepainted steel held by support brackets and allows for up to 6" lamp overlap.

Ceiling Trim: Extruded aluminum with integral aligner splines.

Electrical: Specify 120 volt or 277 volt. 3 conductor, 12 gauge wire. Color-coded quick connectors allow ease of connection for joiner modules. For special circuiting, consult factory. Rapid start, HPF, class "P" thermally protected.

Emergency battery pack: 450 Lumens @ 90 minimum. 4' fixture and longer only. Not available in telescoping fixtures.

Mountings: Wall adjustment bracket - allows for inconsistencies in wall straightness. Die-formed steel used to mount system to the wall.

Finish: Ceiling trim painted baked enamel semi-gloss white.

Options and Accessories

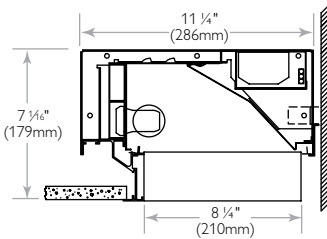
90 degree inside, 90 degree outside, 135 degree inside, and 135 outside corners available.

Labels

UL, cUL and I.B.E.W.

PTS7-1

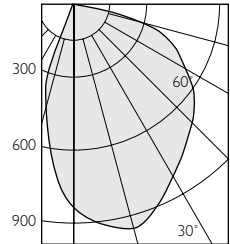
1 Light T8, parabolic louver, 8 1/4" aperture



Reference data

Report no: LRL 499-5D
Efficiency: 46.7%
Lamps: 1-FO32T8

Candlepower Curve



Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	2644	45.6	100.0
90-180	0	0.0	0.0
0-180	2644	45.6	100.0

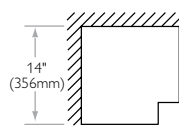
Ordering information

PTS7	Style	Lamps	Length	Ballast	Options
PTS7	T = Telescoping* Blank = Non-telescoping	1 = 1 Lamp	24 = 24" 36 = 36" 48 = 48"* 60 = 60" 84 = 84"	E81 = ELET8 120V E82 = ELE T8 277V	X4 = 4 through wires X5 = 5 through wires X6 = 6 through wires T = Tandem switch

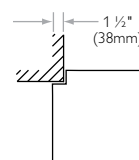
* PTS7-1 lamp telescoping available in 48" with adjustment of 27" to 48".

End plate and corner block accessories

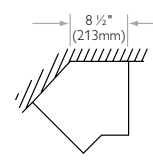
90° Inside
PTS7C901 Standard



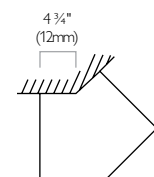
90° Outside
PTS7C900 Standard



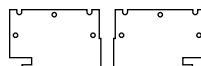
135° Inside
PTS7C1351 Standard



135° Outside
PTS7C1350 Standard



End cap set
PTS7EP Standard



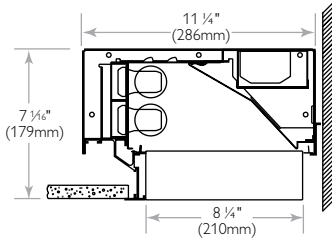
Each run must be closed up by one End cap set

PTS7 2', 3', 3 1/2', 4 1/2', 5' & 8'

Perimeter trough system

PTS7-2

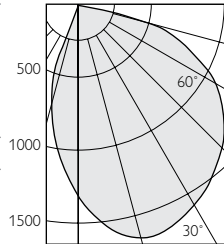
2 Light T8, parabolic louver, 8 1/4" aperture



Reference data

Report no: LRL 499-5E
Lamps: 2-32WT8
Lumens: 2900
Efficiency: 45.6%

Candlepower Curve



Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	2644	45.6	100.0
90-180	0	0.0	0.0
0-180	2644	45.6	100.0



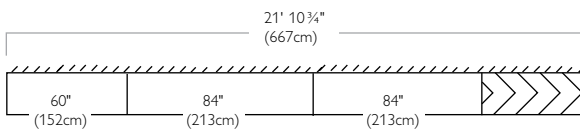
Ordering information

PTS7	Style	2	Length	Ballast	Options
PTS7 = PTS7	T = Telescoping* Blank = Non-telescoping	2 = 2 Lamp	24 = 24" 60 = 60" 36 = 36" 96 = 96" 48 = 48" 54 = 54"* 42 = 42"*	E81 = ELET8 120V E82 = ELET8 277V	X4 = 4 through wires X5 = 5 through wires X6 = 6 through wires T = Tandem switch

* PTS7-2 lamp telescoping available in 42" with adjustment of 27" to 42". Also available in 54" with adjustment of 39" to 54".

Sample run accessories

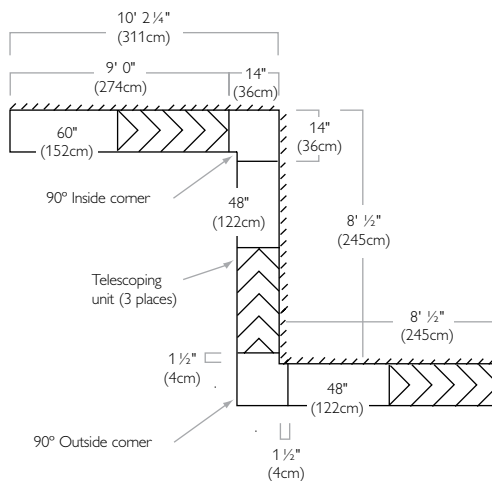
Example of a 21' 10 3/4" run of 1 light 277v PTS7



Qty Catalog number

- 1 PTS7T148E82
- 2 PTS7184E82
- 1 PTS7160E82
- 1 PTS7EP

Example of a 1 light pattern using IS and OS corners



Top

- | Qty | Catalog number | Description |
|-----|----------------|-------------|
| 1 | PTS7C901 | IS Corner |
| 1 | PTS7T148E82 | Tele |
| 1 | PTS7160E82 | Fixture |

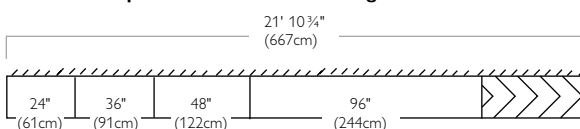
Side

- | Qty | Catalog number | Description |
|-----|----------------|-------------|
| 1 | PTS7T148E82 | Tele |
| 1 | PTS7148E82 | Fixture |
| 1 | PTS7C900 | OS Corner |

Bottom

- | Qty | Catalog number | Description |
|-----|----------------|-------------|
| 1 | PTS7T148E82 | Tele |
| 1 | PTS7148E82 | Fixture |
| 1 | PTS7EP | End set |

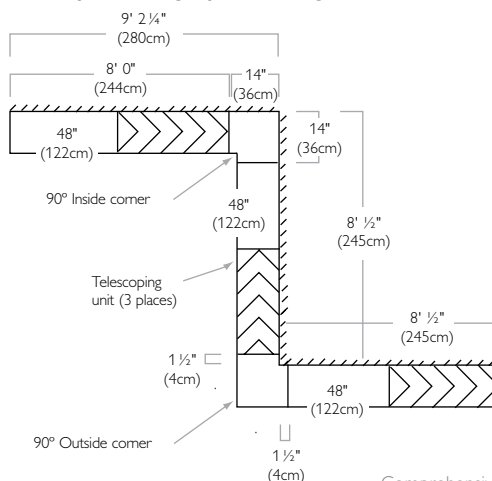
Example of a 21' 10 3/4" run of 2 light 277v PTS7



Qty Catalog number

- 1 PTS7T254E82
- 1 PTS7296E82
- 1 PTS7248E82
- 1 PTS7236E82
- 1 PTS7224E82
- 1 PTS7EP

Example of a 2 light pattern using IS and OS corners



Top

- | Qty | Catalog number | Description |
|-----|----------------|-------------|
| 1 | PTS7C901 | IS Corner |
| 1 | PTS7T254E82 | Tele |
| 1 | PTS7248E82 | Fixture |

Side

- | Qty | Catalog number | Description |
|-----|----------------|-------------|
| 1 | PTS7T254E82 | Tele |
| 1 | PTS7248E82 | Fixture |
| 1 | PTS7C900 | OS Corner |

Bottom

- | Qty | Catalog number | Description |
|-----|----------------|-------------|
| 1 | PTS7T254E82 | Tele |
| 1 | PTS7248E82 | Fixture |
| 1 | PTS7EP | End set |



PTS5 T5 lamps 2', 3', 4', 6' & 8'

Architectural profiles

Features

Housing: Die formed 20 gauge pre-painted steel. Integral heavy gauge bulk-heads support housing and trim, permitting modules to be bolted together in continuous runs and to facilitate suspension.

Lamping: Cross sectional one or two linear T5 fluorescent lamps. Provided by others.

Reflector: Precision parabolic roll-formed semi-specular aluminum or precision die-formed CRS finished in a high reflective baked white powder coat.

Louwer: Lift and shift straight blade louwer constructed from die-formed aluminum and painted to match housing. Louwer blades are 1" high on 1 1/8" centers (optional).

Mounting: "J" Rail is first mounted to the wall and the modules connect to the rail for 1/4" wall adjustment. Modules are hung from suspension wires attached to the fixture bulkheads and the structure above.

Electrical

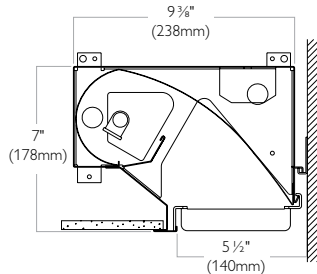
Electronic ballast: Programmed start, 3 conductor, 12 gauge wire. Color-coded quick connectors allow easy connection for modular fixtures.

Dimming: Advance Mark X, use Advance compatible two-wire control (no extra lead required).

Emergency battery pack: 450 Lumens @ 90 minimum. 4' fixture and longer only. Not available in adjustable fixtures.

PTS5-1

1 Light T5, high efficiency reflector



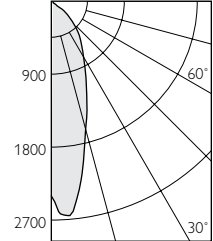
Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	1861	37.2	100.0
90-180	0.0	0.0	0.0
0-180	1861	37.2	100.0

Reference data

Report no:	ITL53559	Lumens:	5000
Cat no:	PTS51HS14	Efficiency:	37.2%
Lamps:	1-F54T5		

Candlepower Curve

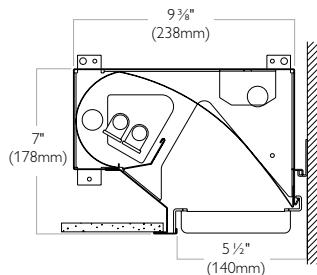


Module ordering information

PTS5	1					
Family	Lamps	Type	Shielding	Voltage	Length	Options
PTS5 = PTS5	1 = 1 Lamp	S = Standard H = HO	O = Open S = Straight blade louwer L = Lens	1 = 120V 2 = 277V 3 = 347V D1 = Dimming 120V D2 = Dimming 277V D3 = Dimming 347V E1 = Emergency 120V E2 = Emergency 277V	2 = 2' 3 = 3' 4 = 4' 6 = 6' 8 = 8'	Blank = No options A = Adjustable X4 = 4 through wires X5 = 5 through wires A4 = Adjustable 4 through wires A5 = Adjustable 5 through wires

PTS5-2

2 Light T5, high efficiency reflector



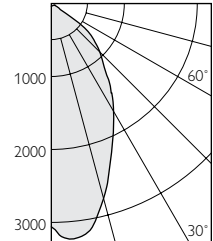
Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	3026	30.3	100.0
90-180	0.0	0.0	0.0
0-180	3026	30.3	100.0

Reference data

Report no:	ITL53560	Lumens:	5000
Cat no:	PTS52HS14	Efficiency:	30.3%
Lamps:	2-F54T5		

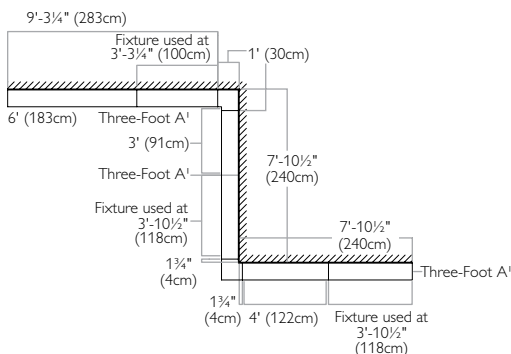
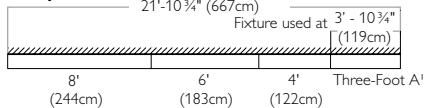
Candlepower Curve



Module ordering information

PTS5	2					
Family	Lamps	Type	Shielding	Voltage	Length	Options
PTS5 = PTS5	2 = 2 Lamp	S = Standard H = HO	O = Open S = Straight blade louwer L = Lens	1 = 120V 2 = 277V 3 = 347V D1 = Dimming 120V D2 = Dimming 277V D3 = Dimming 347V E1 = Emergency 120V E2 = Emergency 277V	2 = 2' 3 = 3' 4 = 4' 6 = 6' 8 = 8'	Blank = No options A = Adjustable AS = Adjustable Staggered S = Staggered X4 = 4 through wires X5 = 5 through wires A4 = Adjustable 4 through wires A5 = Adjustable 5 through wires S5 = Staggered 4 through wires S5 = Staggered 5 through wires B4 = Adjustable Staggered 4 through wires B5 = Adjustable Staggered 5 through wires

Sample Run



For fixture using non-staggered lamps

The four-foot adjustable fixture has a range of 48.75" (123.83cm) - 60" (152.40cm).
The three-foot adjustable fixture has a range of 36.75" (93.35cm) - 48" (121.92cm).
The two-foot adjustable fixture has a range of 24.75" (62.87cm) - 36" (91.44cm).

For fixture using staggered lamps

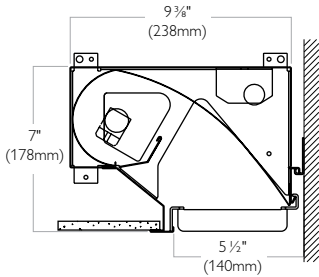
The four-foot adjustable staggered fixture has a range of 51" (129.54cm) - 60" (152.40cm).
The three-foot adjustable staggered fixture has a range of 39" (99.06cm) - 48" (121.92cm).
The two-foot adjustable staggered fixture has a range of 27" (68.58cm) - 36" (91.44cm).

PTS8 T8 lamps 2', 3', 4', 6' & 8'

Architectural profiles

PTS8-1

1 Light T8, high efficiency reflector



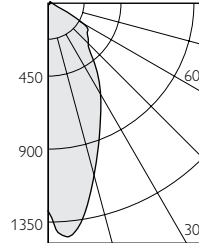
Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	1162	39.4	100.0
90-180	0	0.0	0.0
0-180	1162	39.4	100.0

Reference data

Report no:	ITL53557	Lumens:	2900
Cat no:	PTS81S14	Efficiency:	39.4%
Lamps:	1-F32T8		

Candlepower Curve



Features

Housing: Die formed 20 gauge pre-painted steel. Integral heavy gauge bulk-heads support housing and trim, permitting modules to be bolted together in continuous runs and to facilitate suspension.

Lamping: Cross sectional one or two linear T8 fluorescent lamps. Provided by others.

Reflector: Precision parabolic roll-formed semi-specular aluminum.

Louver: Lift and shift straight blade louver constructed from die-formed aluminum and painted to match housing. Louver blades are 1" high on 1 1/8" centers (optional).

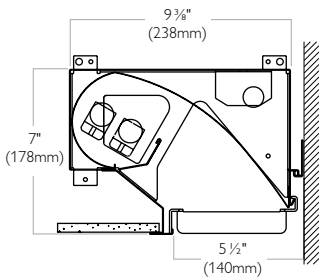
Mounting: "J" Rail is first mounted to the wall and the modules connect to the rail for 1/4" wall adjustment. Modules are hung from suspension wires attached to the fixture bulkheads and the structure above.

Module ordering information

PTS8	1				
Family	Lamps	Shielding	Voltage	Length	Options
PTS8 = PTS8	1 = 1 Light	O = Open S = Straight blade louver L = Lens	1 = 120V 2 = 277V 3 = 347V D1 = Dimming 120V D2 = Dimming 277V D3 = Dimming 347V E1 = Emergency 120V E2 = Emergency 277V	2 = 2' 3 = 3' 4 = 4' 6 = 6' 8 = 8'	Blank = No options A = Adjustable X4 = 4 through wires X5 = 5 through wires A4 = Adjustable 4 through wires A5 = Adjustable 5 through wires

PTS8-2

2 Light T8, high efficiency reflector



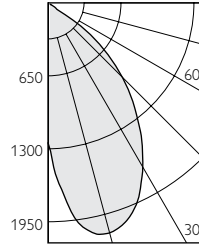
Distribution

Zone	Lumens	%Lamp	%Luminaire
0-90	1878	31.8	100.0
90-180	0	0.0	0.0
0-180	1878	31.8	100.0

Reference data

Report no:	ITL53558	Lumens:	2950
Cat no:	PTS82S14	Efficiency:	31.8%
Lamps:	2-F32T8		

Candlepower Curve



Electrical

Electronic ballast: Programmed start, 3 conductor, 12 gauge wire. Color-coded quick connectors allow easy connection for modular fixtures.

Dimming: Advance Mark X, use Advance compatible two-wire control (no extra lead required).

Emergency battery pack: 450 Lumens @ 90 minimum. 4' fixture and longer only. Not available in adjustable fixtures.

Ordering instructions

- Order number of fixtures necessary to complete the run.
- Order one end set per run. Runs with staggered lamp fixtures must end in adjustable staggered module.

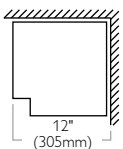
Contact factory for details.

Adjustable fixtures in 2', 3' and 4's length only. Fixture will ship one foot longer than posted length. Staggered lamp fixtures will adjust down to 3" past posted length. Non-staggered lamp fixtures will adjust down to 1" past posted length. Area of adjustability is not lamped.

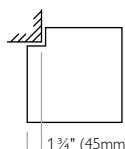
Module ordering information

PTS8	2				
Family	Lamps	Shielding	Voltage	Length	Options
PTS8 = PTS8	2 = 2 Light	O = Open S = Straight blade louver L = Lens	1 = 120V 2 = 277V 3 = 347V D1 = Dimming 120V D2 = Dimming 277V D3 = Dimming 347V E1 = Emergency 120V E2 = Emergency 277V	2 = 2' 3 = 3' 4 = 4' 6 = 6' 8 = 8'	Blank = No options A = Adjustable AS = Adjustable staggered S = Staggered X4 = 4 through wires X5 = 5 through wires A4 = Adjustable 4 through wires A5 = Adjustable 5 through wires S4 = Staggered 4 through wires S5 = Staggered 5 through wires B4 = Adjustable Staggered 4 through wires B5 = Adjustable Staggered 5 through wires

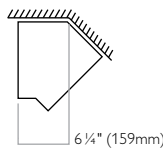
Mounting accessories



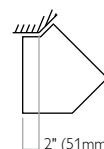
90° Inside corner:
PTS135INCL = Lens
PTS135INCO = Open
PTS135INCS = Straight blade



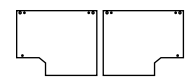
90° Outside corner:
PTS90OTCL = Lens
PTS90OTCO = Open
PTS90OTCS = Straight blade



135° Inside corner:
PTS90INCL = Lens
PTS90INCO = Open
PTS90INCS = Straight blade



135° Outside corner:
PTS135OTCL = Lens
PTS135OTCO = Open
PTS135OTCS = Straight blade



End cap set:
PTSEP



GO2

Recessed high performance louver luminaires

GO2 features a high reflectance flat white louver, and aluminum reflector system that are entirely fabricated with recyclable materials, finished with emission free powder coating, and packaged in recycled corrugated containers. Add to that, it is made in the USA, saving fuel from the factory to the job site, and it makes GO2 an environmentally friendly product.



The sharp cut-off of a traditional parabolic fixture casts dark shadows on the wall creating a cave effect.

The flat white louver makes the luminaire low in brightness yet gives a broad light distribution that evenly illuminates all surfaces in the space, which creates a comfortable balanced brightness for the occupants.

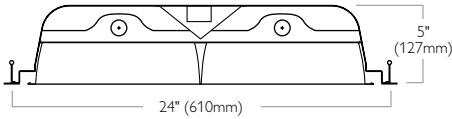
In addition it can provide illumination levels equal to the IESNA requirements, with a Visual Comfort Probability (VCP) that exceeds 70 at less than .6 watts per square foot.

Replacing a typical 3 lamp parabolic with GO2 can save as much as 44% on your energy bill. The GO2 will not only meet your lighting level requirements, but also your LEED goals.

GO2 2' x 4', 2' x 2' & 1' x 4'

Recessed high performance louver luminaires

GOS2G232UNVC5



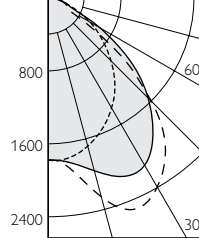
Reference data

Efficiency	85.9%
Spacing ratio	1.7

Electronic ballast

Input watts (120V)	51.0W
Ballast factor	0.78

Candlepower Curve



For air handling type fixture change **S** to **A**.
(e.g.: **GOA2G232UNVHI**)

For slot grid ceiling change **G** to **T**.
(e.g.: **GOS2T232UNVH**)



Features

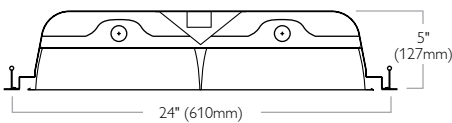
- GO2 evenly illuminates horizontal and vertical surfaces and is low in brightness.
- GO2 2X4 can provide 51 maintained footcandles at only .58 watts per square foot.
- 85.9% efficient two lamp 32 watt T8 2' x 4' luminaire.
- 80.5% efficient two lamp 17 watt T8 2' x 2' luminaire.
- 80.7% efficient single lamp 32 watt T8 1' x 4' luminaire.
- 94% reflective flat white powder coated louver.
- 94% reflectance Miro® reflector system.
- 5" deep body.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Built-in earthquake clips.
- Spring loaded latches.
- 18 gauge steel hinges.
- Construction to meet NYC Code or Chicago Plenum requirements is available.
- Manufactured in USA

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 4'	2-T5	28W	GOS2G228UNVPG
		2-T5	28W	GOS2G228UNVVY
		2-T5HO	54W	GOS2G254UNVPG
		2-T8	32W	GOS2G232UNVC5
		2-T8	32W	GOS2G232UNVHI
		2-T8	32W	GOS2G232UNVV2

Example	GOS2G232	UNV	C5	
	GO2 Series	Voltage	Ballast	Options
	Direct/indirect recessed static or air supply/return	120 = 120V 277 = 277V UNV = 120-277V	See page 4.107	See page 4.107 and page 4.130

GOS2G217UNVC2



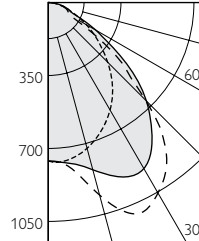
Reference data

Efficiency	80.5%
Spacing ratio	1.7

Electronic ballast

Input watts (120V)	30.2W
Ballast factor	0.88

Candlepower Curve



For air handling type fixture change **S** to **A**.
(e.g.: **GOA2G217UNVHI**)

For slot grid ceiling change **G** to **T**.
(e.g.: **GOS2T217UNVHI**)

Options & accessories page 4.130

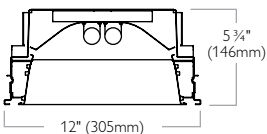
Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	2' x 2'	2-T5	14W	GOS2G214UNVPG
		2-T5HO	24W	GOS2G224UNVPG
		2-TT5	40W	GOS2G2FTUNVPR
		2-T8	17W	GOS2G217UNVHI
		2-T8U 1 1/2"	32W	GOS2G22UUNVHI

Example	GOS2G217	UNV	C2	
	GO2 Series	Voltage	Ballast	Options
	Direct/indirect recessed static or air supply/return	120 = 120V 277 = 277V UNV = 120-277V	See page 4.107	See page 4.107 and page 4.130

GOS1G132UNVC2



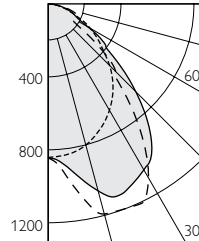
Reference data

Efficiency	80.7%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	30.2W
Ballast factor	0.87

Candlepower Curve



For air handling type fixture change **S** to **A**.
(e.g.: **GOA1G232UNVHI**)

For slot grid ceiling change **G** to **T**.
(e.g.: **GOS1T232UNVHI**)

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.
Conversion kit for 2' x 2' unit: **FK92X2**.
Conversion kit for 1' x 4' unit: **FK91X4**.
For drywall or plaster ceilings.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty–type	Lamp watts	Catalog no.
Static	1' x 4'	2-T5	28W	GOS1G228UNVPG
		2-T5	28W	GOS1G228UNVVY
		1-T5HO	54W	GOS1G154UNVPG
		2-T8	32W	GOS1G232UNVHI
		2-T8	32W	GOS1G232UNVV2

Example	GOS1G132	UNV	C2	
	GO2 Series	Voltage	Ballast	Options
	Direct/indirect recessed static or air supply/return	120 = 120V 277 = 277V UNV = 120-277V	See page 4.107	See page 4.107 and page 4.130

GO2 Retro 2' x 4' & 2' x 2'



Retro fit recessed luminaires

GO2 Retro features a flat white louver and a unique power tray that can be used to convert most installations of 2' x 4' or 2' x 2' parabolic or specification grade lens troffers, that are at least 4 3/8" deep, to state of the art, energy saving GREEN FIXTURES. GO2 Retro is over 80% efficient with a broad light distribution that will illuminate both horizontal and vertical surfaces, creating a comfortable balanced brightness.

Features

- GO2 Retro can be used to convert most 2' x 4' and 2' x 2' parabolic or specification grade lens troffers into energy saving luminaires.
- GO2 Retro evenly illuminates horizontal and vertical surfaces and is low in brightness.
- GO2 Retro is ideal for those areas where you would like to have a minimum of down time such as retail spaces and schools.
- Manufactured in USA

GO2 Retro 2' x 4'

- 12 Cell 95% reflective flat white powder coated louver.
- 84.5% efficient 32W T8.
- 1.5 space mounting ratio.

GO2 Retro 2' x 2'

- 6 Cell 95% reflective flat white powder coated louver.
- 80.6% efficient 17W T8.
- 1.5 space mounting ratio.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

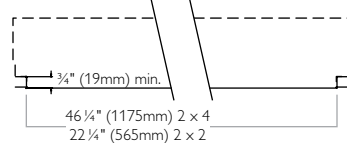
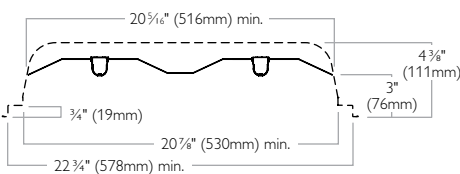
Ballast type

	<10THD	<20THD
Electronic T8	HI* , P2**	SO
Electronic T5	PG	–
Bilevel step dim T8	V2	–
Bilevel step dim T5 14W / 28W	VY	–
Adv. Optainum low watt T8	C5	–
Adv. Optainum stand. Watt T8	C2	–

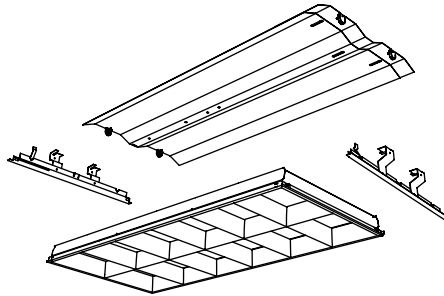
* Instant start.

** Program start.

Dimensions are clearance required in fixture for GO2 Retro to fit



GOR2G232UNVC5



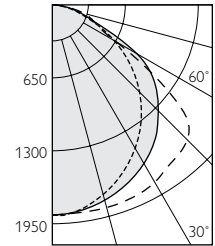
Reference data

Efficiency	84.5%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	53.0W
Ballast factor	0.77

Candlepower Curve



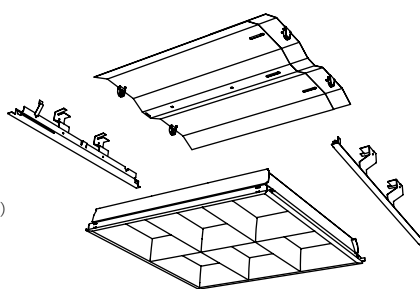
Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Retro fit	2' x 4'	2-T5 2-T5HO 2-T8	28W 54W 32W	GOR2G228UNVPG GOR2G254UNVPG GOR2G232UNVHI

Available with EM Pack Consult factory

Example	GOR2G232	UNV	HI	A
	GO2 Retro	Voltage	Ballast	Options
	Direct/indirect	120 = 120V	See page 4.108	See page 4.108
	Retro fit recessed	277 = 277V		and page 4.130
		UNV = 120-277V		

GOR2G217UNVC2



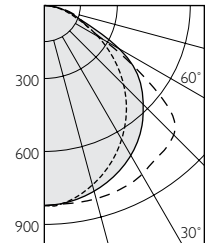
Reference data

Efficiency	80.6%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	30.8W
Ballast factor	0.88

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Lamp watts	Catalog no.
Retro fit	2' x 2'	2-T5 2-T5HO 2-T8	14W 24W 17W	GOR2G214UNVPG GOR2G224UNVPG GOR2G217UNVHI

2 x 2 Not Available with Emergency Pack

Example	GOR2G217	UNV	HI	A
	GO2 Retro	Voltage	Ballast	Options
	Direct/indirect	120 = 120V	See page 4.108	See page 4.108
	Retro Fit Recessed	277 = 277V		and page 4.130
		UNV = 120-277V		

GO2 easy installation

Retro fit recessed luminaires

Retrofitting with GO2 Retro as opposed to installing new fixtures is ideal for those areas where you would like to have a minimum of down time such as retail spaces or schools.



Step 1

The first step in installation, after making sure power to fixture is disconnected, is to remove all existing components of the previous fixture, leaving only the body. Place the GO2 Retro end adaptors between the base of the fixture and the T-Bar. Secure the GO2 Retro End Adaptors in place with the supplied tech screws (4).



Step 2

Hang GO2 Retro power tray on tab and slot as shown above. Using the ballast disconnect supplied (accepts up to 12 gauge wire), make power connections and ground connection to body.



Step 3

Lift GO2 Retro power tray into position. Slide GO2 Retro power tray into brackets on end adaptors.



Step 4

Slide the telescoping end of the GO2 Retro power tray into place, resting on the end adaptors. Tighten the integrated white thumb screws of the GO2 Retro power tray securing it in place.

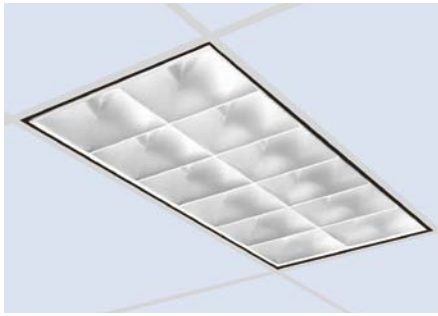


Step 5

Insert the GO2 Retro louver pins into the louver slots of the GO2 Retro end adaptors and close.



The installation of the GO2 Retro is complete.



Vision Smart 2' x 4'

4" Parabolic louver recessed air handling luminaires

Vision Smart 2' x 4' Parabolics meet criteria of IES RP-1 and RP-24.

Features

- VR unit meets IES RP24 and RP1 recommended (basic) criteria for lighting VDT areas.
- Candelas at Nadir (0°), 1510 on 2-lamp VR.
- Semi-specular low iridescence pre-anodized louver in VR model.
- Concealed spring-loaded latch/hinge can be opened either side.
- Only 6" deep.
- Earthquake clips included.
- Protective film dust guard.
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

* Instant start.

** Program start.

Consult factory for other wattages.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Air closure strips: ACS4 (factory installed).

ACS4 CSP (field installed).

Chicago Plenum: Suffix: C.

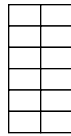
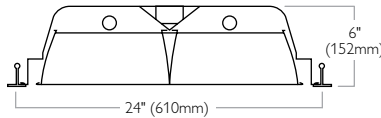
For products that meet Chicago Plenum requirements.

Fusing: Suffix: A (Internal fast-blow fusing).

Suffix: C (Internal slow-blow fusing).

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either S2X4F Kit (see Folio OA-30-30), or Drywall kit, FK92X4 (see Folio OA30-10).

VRA2G12LS232UNVHI



12 Cell

Reference data

Efficiency	70.9%
Spacing ratio	1.8

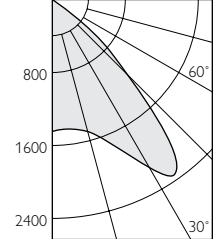
Electronic ballast

Input watts (120V)	62.0W
LER	60.4

Max average brightness

55°	1701cd/m ²
65°	345cd/m ²
75°	61cd/m ²
85°	36cd/m ²

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty–Type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 4'	12	2-T8	VRA2G12LS232	VRA2T12LS232

Example

VRA2G12LS232

Vision Smart

4" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage

120 = 120V

277 = 277V

UNV= 120-277V
(Elec. T8 ballast only)

HI

Ballast

See page 4.110

ACS4

Options

See page 4.110 and page 4.130

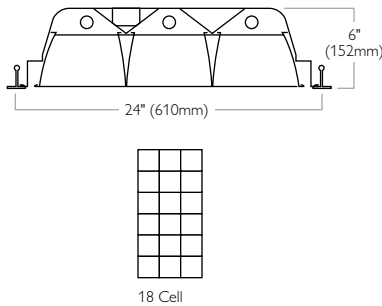
Vision Smart 2' x 4'

4" Parabolic louver recessed air handling luminaires

Vision Smart 2' x 4' Parabolics meet the criteria of IES RP-1 and RP-24.



VRA2G18LP332UNVH3



Reference data

Efficiency	64.5%
Spacing ratio	1.5

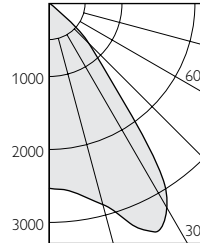
Electronic ballast

Input watts (120V)	85.0W
LER	60.1

Max average brightness

55°	2681cd/m ²
65°	304cd/m ²
75°	147cd/m ²
85°	0cd/m ²

Candlepower Curve



Features

- VR unit meets IES RP24 and RP1 recommended (basic) criteria for lighting VDT areas.
- Candelas at Nadir (0°), 1510 on 2-lamp VR.
- Semi-specular low iridescence pre-anodized louver in VR model.
- Concealed spring-loaded latch/hinge can be opened either side.
- Only 6" deep.
- Earthquake clips included.
- Protective film dust guard.
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.

Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 4'	18	3-T8	VRA2G18LP332	VRA2T18LP332

Example

VRA2G18LP332

Vision Smart
4" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V (Elec. T8 ballast only)

H3

Ballast
See page 4.111

ACS4

Options
See page 4.111 and page 4.130

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
LOL T8 Dimming	–	PS

* Instant start.

** Program start.

Consult factory for other wattages.

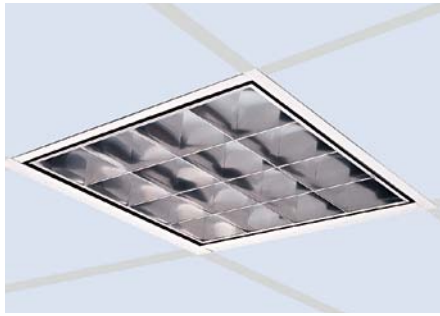
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Air closure strips: **ACS4** (factory installed).
ACS4 CSP (field installed).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either **S2X4F** Kit (see Folio OA-30-30), or Drywall kit, **FK92X4** (see Folio OA30-10).



Vision Smart 2' x 2'

4" Parabolic louver recessed air handling luminaires

Vision Smart VR architecturally symmetrical 2' x 2' Parabolics meet the criteria of IES RP-1 and RP-24.

Features

- Candelas at Nadir (0°), 1224 on 2-lamp VR.
- Semi-specular low iridescence pre-anodized louver in VR models.
- Concealed spring-loaded latch/hinge can be opened either side.
- Only 6" deep.
- Louver frame with integral positive light stop.
- Earthquake clips included.
- Protective film dust guard.
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVPR**.

Ballast type	<10THD	<20THD
1 - 2 Lamp Elec. TT5 40W	IB* , PR**	SB*
LOL TT5 Dimming	–	PB

* Instant start.

** Program start.

Consult factory for other wattages.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

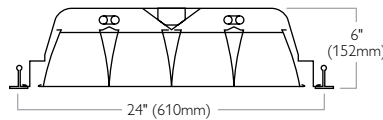
Air closure strips: **ACS2** (factory installed).
ACS2 CSP (field installed).

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either **S2X2F** Kit (see Folio OA-30-30), or Drywall kit, **FK92X2** (see Folio OA30-10).

VRA2G16LV2FT120SB



16 Cell

Reference data

Efficiency	52.2%
Spacing ratio	1.8

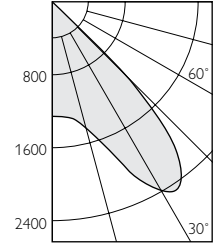
Electronic ballast

Input watts (120V)	74.0W
LER	39.9

Max average brightness

55°	1130cd/m ²
65°	267cd/m ²
75°	121cd/m ²
85°	72cd/m ²

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 2'	16	2-TT5	VRA2G16LV2FT	VRA2T16LV2FT

Example	VRA2G16LV2FT	120	SB	ACS2
	Vision Smart 4" Precision contoured pre-anodized aluminum parabolic louver	Voltage 120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 or TT5 ballast only)	Ballast See page 4.112	Options See page 4.112 and page 4.130

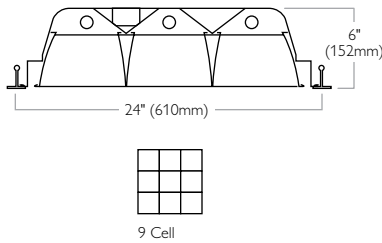
Vision Smart 2' x 2'

4" Parabolic louver recessed air handling luminaires

Vision Smart VR architecturally symmetrical 2' x 2' Parabolics meet the criteria of IES RP-1 and RP-24.



VRA2G9LP317UNVH3



Reference data

Efficiency	62.7%
Spacing ratio	1.4

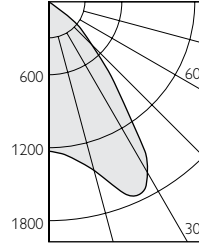
Electronic ballast

Input watts (120V)	47.0W
LER	50.4

Max average brightness

55°	2203cd/m ²
65°	238cd/m ²
75°	91cd/m ²
85°	0cd/m ²

Candlepower Curve



Features

- VR 9 cell unit meets IES RP24 and RP1 recommended (basic) criteria for lighting VDT areas.
- Semi-specular low iridescence pre-anodized louver in VR models.
- Concealed spring-loaded latch/hinge can be opened either side.
- Only 6" deep.
- Louver frame with integral positive light stop.
- Earthquake clips included.
- Protective film dust guard.
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.

Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 2'	9	3-T8	VRA2G9LP317	VRA2T9LP317

Example

VRA2G9LP317

Vision Smart
4" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V (Elec. T8 ballast only)

H3

Ballast
See page 4.113

ACS2

Options
See page 4.113 and page 4.130

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVH1.

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
LOL T8 Dimming	–	PS

* Instant start.

** Program start.

Consult factory for other wattages.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Air closure strips: **ACS4** (factory installed).
ACS4 CSP (field installed).

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either **S2X2F** KIT (see Folio OA-30-30), or DRYWALL KIT, **FK92X2** (see Folio OA30-10).



Vision Smart 2' x 2'

4" Parabolic louver recessed air handling luminaires

Vision Smart architecturally symmetrical 2' x 2' VR Parabolics meet the criteria of IES RP-1 and RP-24. The VR Series is best suited wherever use of VDT's is occasional or nonintensive.

Features

- VR units meet IES RP24 and RP1 recommended (basic) criteria for lighting VDT areas.
- Only 6" deep.
- Semi-specular low iridescence pre-anodized louver is standard on VR models.
- Concealed spring-loaded latch/hinge can be opened either side.
- Louver frame with integral positive light stop.
- Earthquake clips included.
- Protective Film dust guard.
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

* Instant start.

** Program start.

Consult factory for other wattages.

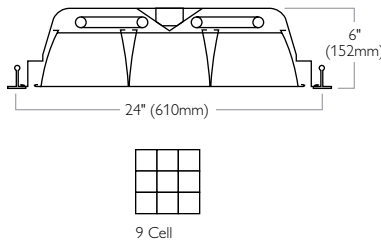
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Air closure strips: ACS2 (factory installed). ACS2 CSP (field installed).

Chicago Plenum: Suffix: C. For products that meet Chicago Plenum requirements.

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either S2X2F Kit (see Folio OA-30-30), or Drywall kit, FK92X2 (see Folio OA30-10).

VRA2G9LS26UUNVHI



Reference data

Efficiency	57.1%
Spacing ratio	1.3

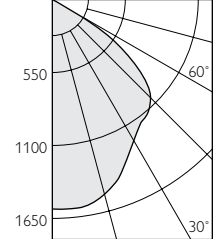
Electronic ballast

Input watts (120V)	60.0W
LER	50.0

Max average brightness

55°	3272cd/m ²
65°	357cd/m ²
75°	130cd/m ²
85°	38cd/m ²

Candlepower Curve

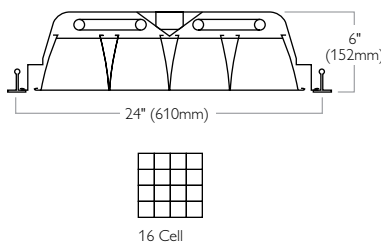


Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 2'	9	2-T8U6	VRA2G9LS26U	VRA2T9LS26U

Example	VRA2G9LS26U	UNV	HI	ACS2
	Vision Smart 4" Precision contoured pre-anodized aluminum parabolic louver	Voltage 120 = 120V 277 = 277V UNV= 120-277V (Elect. Ballast only)	Ballast See page 4.114	Options See page 4.114 and page 4.130

VRA2G16LS26UUNVHI



Reference data

Efficiency	51.7%
Spacing ratio	1.2

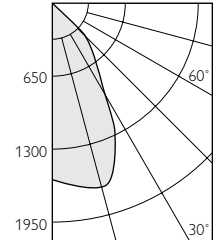
Electronic ballast

Input watts (120V)	60.0W
LER	45.4

Max average brightness

55°	1619cd/m ²
65°	293cd/m ²
75°	104cd/m ²
85°	77cd/m ²

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 2'	16	2-T8U6	VRA2G16LS26U	VRA2T16LS26U

Example	VRA2G9LS26U	UNV	HI	ACS2
	Vision Smart 4" Precision contoured pre-anodized aluminum parabolic louver	Voltage 120 = 120V 277 = 277V UNV= 120-277V (Elect. Ballast only)	Ballast See page 4.114	Options See page 4.114 and page 4.130

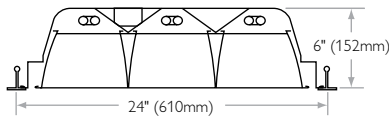
Vision Smart 2' x 2'

4" Parabolic louver recessed air handling luminaires

Vision Smart architecturally symmetrical 2' x 2' VR Parabolics meet the criteria of IES RP-1 and RP-24. The VR Series is best suited wherever use of VDT's is occasional or nonintensive.



VRA2G9LP32UUNVH3



Reference data

Efficiency	56.7%
Spacing ratio	1.4

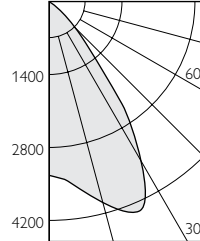
Electronic ballast

Input watts (120V)	83.0W
LER	57.0

Max average brightness

55°	4605cd/m ²
65°	484cd/m ²
75°	181cd/m ²
85°	115cd/m ²

Candlepower Curve



Features

- VR units meet IES RP24 and RP1 recommended (basic) criteria for lighting VDT areas.
- Only 6" deep.
- Semi-specular low iridescence pre-anodized louver is standard on VR models.
- Concealed spring-loaded latch/hinge can be opened either side.
- Louver frame with integral positive light stop.
- Earthquake clips included.
- Protective Film dust guard.
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.

Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 2'	9	3-T8U1.6 3-TT5	VRA2G9LP32U VRA2G9LP3FT	VRA2T9LP32U VRA2T9LP3FT

Example

VRA2G9LP32U

Vision Smart
4" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elect. Ballast only)

H3

Ballast
See page 4.115

ACS2

Options
See page 4.115 and page 4.130

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp elec. T8	H3* , P3**	O3*
1 & 2 Lamp elec. TT5 40W	IB* , PR**	SB*
1 - 3 Lamp elec. TT5 40W	I3*	X3*
LOL T8 Dimming	–	PS
LOL TT5 Dimming	–	PB

* Instant start.

** Program start.

Consult factory for other wattages.

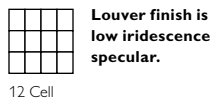
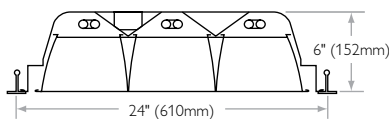
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Air closure strips: **ACS4** (factory installed).
ACS4 CSP (field installed).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either **S2X2F** KIT (see Folio OA-30-30), or **DRYWALL KIT, FK92X2** (see Folio OA30-10).

VRA2G12PP32UUNVH3



Reference data

Efficiency	55.5%
Spacing ratio	1.4

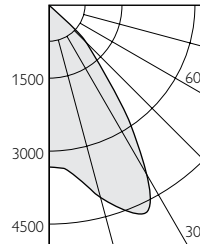
Electronic ballast

Input watts (120V)	83.0W
LER	53.0

Max average brightness

55°	1151cd/m ²
65°	71cd/m ²
75°	52cd/m ²
85°	38cd/m ²

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Exposed Slot-T or concealed T-Grid
Air handling	2' x 2'	12	3-T8U1.6 3-TT5	VRA2G12PP32U VRA2G12PP3FT	VRA2T12PP32U VRA2T12PP3FT

Example

VRA2G12PP3FT

Vision Smart
4" Precision contoured pre-anodized aluminum parabolic louver

120

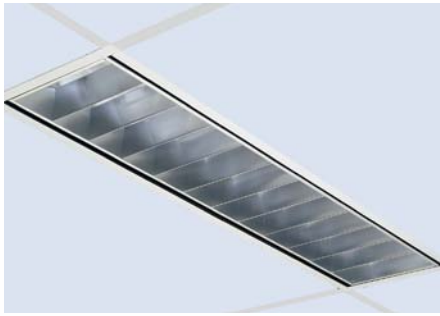
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elect. Ballast only)

X3

Ballast
See page 4.115

ACS2

Options
See page 4.115 and page 4.130



Vision Smart 1' x 4'

3" Parabolic louver recessed air supply/return/static luminaires

Vision Smart (VR) luminaires 1 lamp 8 cell, 2 lamp 12 cell comply with the Basic Criteria of RP-1 (formerly RP-24).

Features

- Meets IES RP-1 recommended (minimum requirements) for lighting VDT areas (VR 1 lamp 8 and 12 cell).
- Semi-specular low iridescence pre-anodized louver.
- Vertical grain on louver eliminates reflected lamp images on cross baffle.
- Louver frame with positive light stop.
- Spring-loaded latches (self centering).
- Black housing exterior for cooler ballast operating temperature.
- Built-in earthquake clip
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.
- Turned-in edges for safe handling.

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

* Instant start.

** Program start.

Consult factory for other wattages.

Drywall kit: Catalog no. **FK91X4** with "G" type fixtures for drywall or plaster ceilings.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF14** for 1' x 4' troffer.

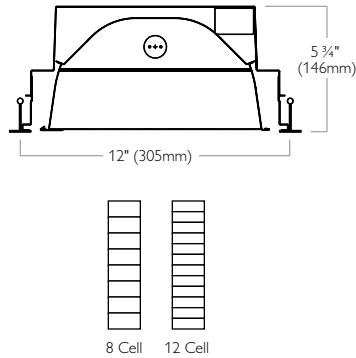
Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **1FCTRIM** (each joint).

Air closure strips: **ACS4** (factory installed).
ACS4 CSP (field installed).

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

VRA1G8LW132UNVHI



Reference data

Efficiency	67.9%
Spacing ratio	1.9

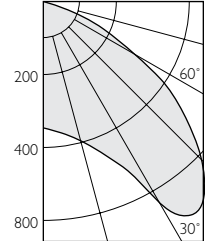
Electronic ballast

Input watts (120V)	30.0W
--------------------	-------

Max average brightness

65°	837cd/m ²
75°	82cd/m ²
85°	0cd/m ²

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	1' x 4'	8	1-T8	VRA1G8LW132	VRA1F8LW132	VRA1T8LW132
		12	1-T8	VRA1G12LW132	VRA1F12LW132	VRA1T12LW132
		8	2-T8	VRA1G8LW232	VRA1F8LW232	VRA1T8LW232
		12	2-T8	VRA1G12LW232	VRA1F12LW232	VRA1T12LW232
Static	1' x 4'	8	1-T8	VRS1G8LW132	VRS1F8LW132	VRS1T8LW132
		12	1-T8	VRS1G12LW132	VRS1F12LW132	VRS1T12LW132
		8	2-T8	VRS1G8LW232	VRS1F8LW232	VRS1T8LW232
		12	2-T8	VRS1G12LW232	VRS1F12LW232	VRS1T12LW232

Example

VRA1G8LW132

Vision Smart
3" Parabolic

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elect. Ballast only)

HI

Ballast
See page 4.116

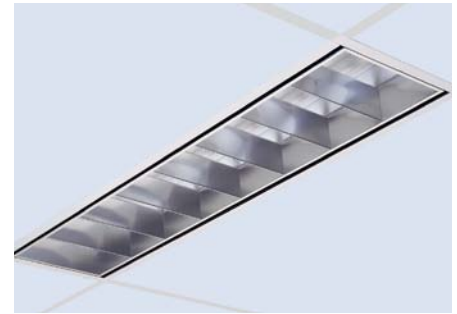
Options

See page 4.116
and page 4.130

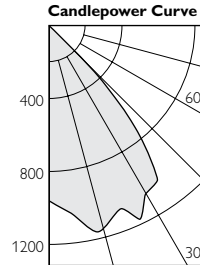
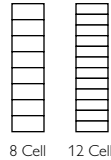
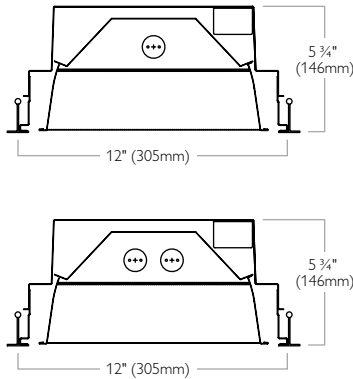
Stacklyte 1' x 4'

3" Parabolic louver recessed air supply/return/static luminaires

Stacklyte (STA) is excellent for lighting library bookshelves with 97.5% of the fixture distribution in the 90° zone.



STA1G8LR132UNVHI



Features

- Semi-specular low iridescence pre-anodized louver.
- Vertical grain on louver eliminates reflected lamp images on cross baffle.
- Louver frame with positive light stop.
- Spring-loaded latches (self centering).
- Black housing exterior for cooler ballast operating temperature.
- Built-in earthquake clip
- UL-Listed twin knockout access plate.
- Metal gauge/construction to meet NYC Code or Chicago Plenum is available.
- Turned-in edges for safe handling.

Options & accessories page 4.130

Louder finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ordering information

Type	Size	Cells	Lamp qty–type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	1' x 4'	8	1-T8	STA1G8LR132	STA1F8LR132	STA1T8LR132
		12	1-T8	STA1G12LR132	STA1F12LR132	STA1T12LR132
		8	2-T8	STA1G8LR232	STA1F8LR232	STA1T8LR232
		12	2-T8	STA1G12LR232	STA1F12LR232	STA1T12LR232
Static	1' x 4'	8	1-T8	STS1G8LR132	STS1F8LR132	STS1T8LR132
		12	1-T8	STS1G12LR132	STS1F12LR132	STS1T12LR132
		8	2-T8	STS1G8LR232	STS1F8LR232	STS1T8LR232
		12	2-T8	STS1G12LR232	STS1F12LR232	STS1T12LR232

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
LOL T8 Dimming	–	PS

* Instant start.
 ** Program start.
 Consult factory for other wattages.

Example **STA1G8LR132** **UNV** **HI**

Stacklyte
3" Parabolic

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
 (Elect. Ballast only)

Ballast
See page 4.117

Options
See page 4.117 and page 4.130

Drywall kit: Catalog no. **FK91X4** with "G" type fixtures for drywall or plaster ceilings.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF14** for 1' x 4' troffer.

Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **1FCTRIM** (each joint).

Air closure strips: **ACS4** (factory installed). **ACS4 CSP** (field installed).

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**. For products that meet Chicago Plenum requirements.

Ceiling	Vertical footcandles on book shelves								
	1'		2'		3'		4'		
1	48	48	49	48	48	48	49	48	48
2	36	36	36	36	36	36	36	36	36
3	28	28	28	28	28	28	28	28	28
4	24	24	24	24	24	24	24	24	24
5	21	21	21	21	21	21	21	21	21
6	18	18	18	18	18	18	18	18	18
7	16	16	16	16	16	16	16	16	16
8	16	16	16	16	16	16	16	16	16
9	15	15	15	15	15	15	15	15	15
10	14	14	14	14	14	14	14	14	14
11	12	12	12	12	12	12	12	12	12
12	10	10	10	10	10	10	10	10	10
Floor									

36" bookshelf aisle width



Deepcel Plus 2' x 4'

3" Parabolic louver recessed air return/static luminaires

Philips Lightolier Deepcel Plus is the industry standard 3" parabolic louver troffer with features that offer value above the industry standard.

Features

- 5" deep body.
- Individual lamp compartments.
- 77.7% efficient, 3 lamp 18 cell.
- Clean contoured interior.
- Eyeleted heat removal vents in fixture ends.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Hemmed over side rails for safe handling.
- Built-in earthquake clips.
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring-loaded rooster head latches.
- 18 gauge steel hinges.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.

Options & accessories page 4.130

Louvers finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVH1.

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	S0*
1 - 3 Lamp elec. T8	H3* , P3**	O3*
1 - 4 Lamp elec. T8	H4* , P4**	O4*
LOL T8 Dimming	–	PS

* Instant start.
 ** Program start.
 Consult factory for other wattages.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF24** for 2' x 4' troffer.

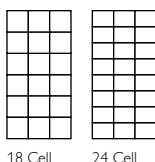
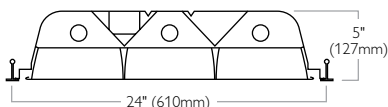
Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FCTRIM** (each joint).

Air closure strips: **ACS4** (factory installed). **ACS4 CSP** (field installed).

Chicago Plenum: Suffix: **C**.
 For products that meet Chicago Plenum requirements.

NYC code: Change **DP** to **DY**.

DPA2G18LP332UNVH3



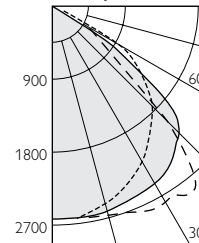
Reference data

Efficiency	77.7%
Spacing ratio	1.6

Electronic ballast

Input watts (120V)	85.9W
Luminaire eff. (LER)	68.6

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 4'	18	3-T8	DPA2G18LP332	DPA2F18LP332	DPA2T18LP332
		24		DPA2G24LP332	DPA2F24LP332	DPA2T24LP332
Static	2' x 4'	18	3-T8	DPS2G18LP332	DPS2F18LP332	DPS2T18LP332
		24		DPS2G24LP332	DPS2F24LP332	DPS2T24LP332

Example **DPA2G18LP332** **UNV** **H3** **ACS4**

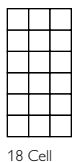
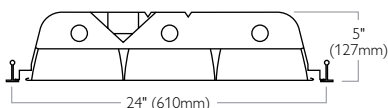
Deepcel Plus
 3" Precision contoured pre-anodized aluminum parabolic louver

Voltage
120 = 120V
277 = 277V
UNV = 120-277V (Elec. T8 ballast only)

Ballast
 See page 4.118

Options
 See page 4.118 and page 4.130

DPA2G18LS332UNVH3



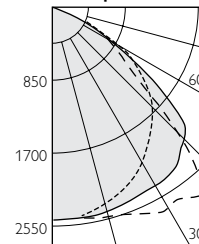
Reference data

Efficiency	77.6%
Spacing ratio	1.6

Electronic ballast

Input watts (120V)	85.8W
Luminaire eff. (LER)	68.6

Candlepower Curve



Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 4'	18	3-T8 4-T8	DPA2G18LS332	DPA2F18LS332	DPA2T18LS332
				DPA2F18LS432	DPA2T18LS432	
Static	2' x 4'	18	3-T8 4-T8	DPS2G18LS332	DPS2F18LS332	DPS2T18LS332
				DPS2G18LS432	DPS2F18LS432	DPS2T18LS432

Example **DPA2G18LS332** **UNV** **H3** **ACS4**

Deepcel Plus
 3" Precision contoured pre-anodized aluminum parabolic louver

Voltage
120 = 120V
277 = 277V
UNV = 120-277V (Elec. T8 ballast only)

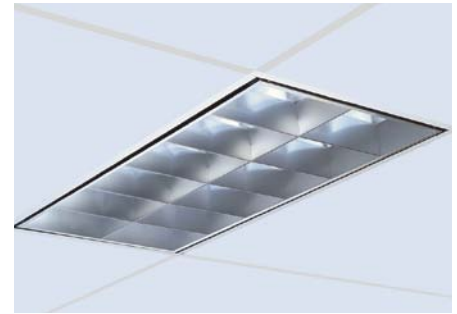
Ballast
 See page 4.118

Options
 See page 4.118 and page 4.130

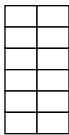
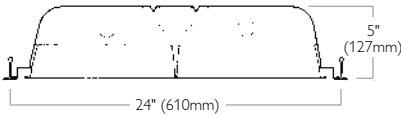
Deepcel Plus 2' x 4'

3" Parabolic louver recessed air return/static luminaires

Philips Lightolier Deepcel Plus is the industry standard 3" parabolic louver troffer with features that offer value above the industry standard.



DPA2G12LS232UNVHI



12 Cell

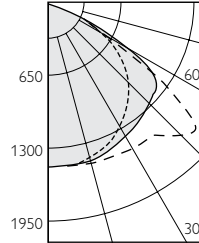
Reference data

Efficiency	80.0%
Spacing ratio	1.6

Electronic ballast

Input watts (120V)	61.6W
Luminaire Eff. (LER)	64.4

Candlepower Curve



Features

- 5" deep body.
- 80% efficient, 2 lamp 12 cell.
- Clean contoured interior.
- Eyeleted heat removal vents in fixture ends.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Hemmed over side rails for safe handling.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring-loaded rooster head latches.
- 18 gauge steel hinges.
- 1.6 spacing to mounting height ratio.
- Snap-in ballast cover.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.

Ordering information

Type	Size	Cells	Lamp qty–type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 4'	12	2-T8	DPA2G12LS232	DPA2F12LS232	DPA2T12LS232
			4-T8	DPA2G12LS432	DPA2F12LS432	DPA2T12LS232
Static	2' x 4'	12	2-T8	DPS2G12LS232	DPS2F12LS232	DPS2T12LS232
			4-T8	DPS2G12LS432	DPS2F12LS432	DPS2T12LS432

Example

DPA2G12LS232

Deepcel Plus
3" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 ballast only)

HI

Ballast
See page 4.119

ACS4

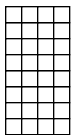
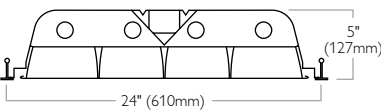
Options
See page 4.119 and page 4.130

Options & accessories page 4.130

Louder finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

DPA2G32LS432UNVH4



32 Cell

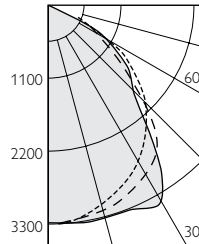
Reference data

Efficiency	64.1%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	110.9W
Luminaire Eff. (LER)	56.7

Candlepower Curve



Ballast type

	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 4 Lamp elec. T8	H4* , P4**	O4*
LOL T8 Dimming	–	PS

* Instant start.

** Program start.

Consult factory for other wattages.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF24** for 2' x 4' troffer.

Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FCTRIM** (each joint).

Air closure strips: **ACS4** (factory installed). **ACS4 CSP** (field installed).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

NYC code: Change **DP** to **DY**.

Ordering information

Type	Size	Cells	Lamp qty–type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 4'	32	4-T8	DPA2G32LS432	DPA2F32LS432	DPAT32LS432
Static	2' x 4'	32	4-T8	DPS2G32LS432	DPS2F32LS432	DPS2T32LS432

Example

DPA2G32LS432

Deepcel Plus
3" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 ballast only)

H4

Ballast
See page 4.119

ACS4

Options
See page 4.119 and page 4.130



Deepcel Plus 2' x 2'

3" Parabolic louver recessed air handling/static luminaires

Deepcel Plus 2' x 2' parabolic troffers feature all of the design benefits of the 2' x 4' product. Available with T8 and Biax type lamps in 9, 12 or 16 cell configurations. For general office lighting Deepcel Plus 2' x 2' is the preferred choice.

Features

- 5" deep body, clean contoured interior.
- 66.2% efficient, 2 lamp 9 cell U6 T8.
- 63.4% efficient, 3 lamp 9 cell T8 1.6.
- Eyeleted heat removal vents in fixture ends.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Hemmed over side rails for safe handling.
- Fixtures ends turned-in for safe handling.
- Built-in earthquake clips.
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring-loaded rooster head latches.
- 18 gauge steel hinges.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.
- Available for U-shape Otron Curvalume or Biax lamp types.

Options & accessories page 4.130

Louver finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
1 - 3 Lamp elec. T8	H3*, P3**	O3*
LOL T8 Dimming	-	PS

* Instant start.

** Program start.

Consult factory for other wattages.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF22** for 2' x 2' troffer.

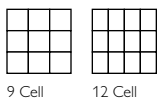
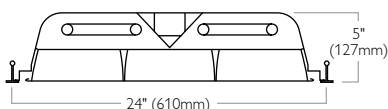
Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FCTRIM** (each joint).

Air closure strips: **ACS2** (factory installed). **ACS2 CSP** (field installed).

Chicago Plenum: Suffix: **C**. For products that meet Chicago Plenum requirements.

NYC code: Change **DP** to **DY**.

DPA2G9LS26UUNVHI



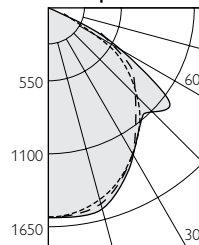
Reference data

Efficiency	66.2%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	57.2W
Luminaire eff. (LER)	53.4

Candlepower Curve



Ordering information

For 17W T8 substitute 6U with 17 in Catalog number.

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 2'	9	2-T8U6	DPA2G9LS26U	DPA2F9LS26U	DPA2T9LS26U
		12		DPA2G12LS26U	DPA2F12LS26U	DPA2T12LS26U
Static	2' x 2'	9	2-T8U6	DPS2G9LS26U	DPS2F9LS26U	DPS2G9LS26U
		12		DPS2G12LS26U	DPS2F12LS26U	DPS2T12LS26U

Example

DPA2G9LS26U

Deepcel Plus
3" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 or TT5 ballast only)

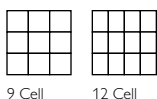
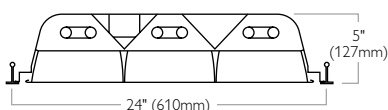
HI

Ballast
See page 4.120

ACS2

Options
See page 4.120 and page 4.130

DPA2G9LP32UUNVH3



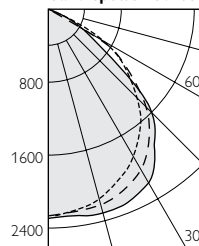
Reference data

Efficiency	63.4%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	57.2W
Luminaire eff. (LER)	56.2

Candlepower Curve



Ordering information

For 17W T8 substitute 2U with 17 in Catalog number.

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 2'	9	3-T8U1.6	DPA2G9LP32U	DPA2F9LP32U	DPA2T9LP32U
		12		DPA2G12LP32U	DPA2F12LP32U	DPA2T12LP32U
Static	2' x 2'	9	3-T8U1.6	DPS2G9LP32U	DPS2F9LP32U	DPS2T9LP32U
		12		DPS2G12LP32U	DPS2F12LP32U	DPS2T12LP32U

Example

DPA2G9LP32U

Deepcel Plus
3" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 or TT5 ballast only)

H3

Ballast
See page 4.120

ACS2

Options
See page 4.120 and page 4.130

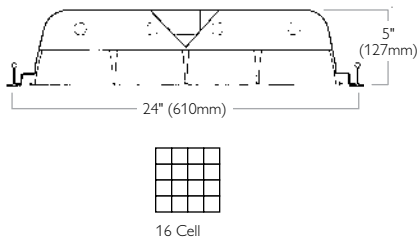
Deepcel Plus 2' x 2'

3" Parabolic louver recessed air handling/static luminaires

Deepcel Plus 2' x 2' parabolic troffers feature all of the design benefits of the 2' x 4' product. Available with T8 and Biax type lamps in 9, 12 or 16 cell configurations. For general office lighting Deepcel Plus 2' x 2' is the preferred choice.



DPA2G16LS26UUNVHI



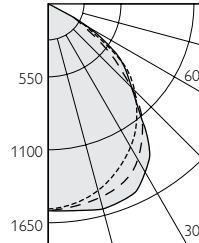
Reference data

Efficiency	61.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	51.5W
Luminaire eff. (LER)	49.4

Candlepower Curve



Features

- 5" deep body, clean contoured interior.
- 61.6% efficient, 2 lamp 9 cell U6 T8.
- 72.0% efficient, 3 lamp 9 cell TT5.
- Eyeleted heat removal vents in fixture ends.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Hemmed over side rails for safe handling.
- Fixtures ends turned-in for safe handling.
- Built-in earthquake clips.
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring-loaded rooster head latches.
- 18 gauge steel hinges.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.
- Available for U-shape Octron Curvalume or Biax type.

Ordering information

For 17W T8 substitute 6U with 17 in Catalog number.

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 2'	16	2-T8U6	DPA2G16LS26U	DPA2G16LS26U	DPA2T16LS26U
Static	2' x 2'	16	2-T8U6	DPS2G16LS26U	DPS2F16LS26U	DPS2T16LS26U

Example

DPA2G16LS26U

Deepcel Plus
3" Precision contoured pre-anodized aluminum parabolic louver

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 or TT5 ballast only)

HI

Ballast
See page 4.121

ACS2

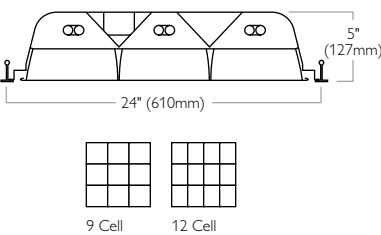
Options
See page 4.121 and page 4.130

Options & accessories page 4.130

Louder finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

DPA2G9LP3FT120SB & DPA2G12LP3FT120SB



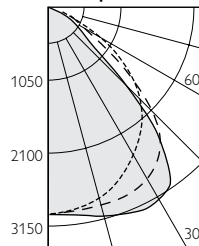
Reference data

Efficiency	72.0%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	100.0W
Luminaire eff. (LER)	59.9

Candlepower Curve



Ballast type

	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp elec. TT5 40W	I3*	X3*
Electronic TT5 40W	IB* , PR**	SB*
LOL T8 Dimming	–	PS
LOL TT5 Dimming	–	PB

* Instant start.

** Program start.

Consult factory for other wattages.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF22** for 2' x 2' troffer.

Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FCTRIM** (each joint).

Air closure strips: **ACS2** (factory installed).

ACS2 CSP (field installed).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

NYC code: Change **DP** to **DY**.

Ordering information

Type	Size	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster	Slot-T or Concealed T
Air handling	2' x 2'	9	3-TT5	DPA2G9LP3FT	DPA2F9LP3FT	DPA2T9LP3FT
		12		DPA2G12LP3FT	DPA2F12LP3FT	DPA2T12LP3FT
Static	2' x 2'	9	3-TT5	DPS2G9LP3FT	DPS2F9LP3FT	DPS2T9LP3FT
		12		DPS2G12LP3FT	DPS2G12LP3FT	DPS2T12LP3FT

Example

DPA2G9LP3FT

Deepcel Plus
3" Precision contoured pre-anodized aluminum parabolic louver

120

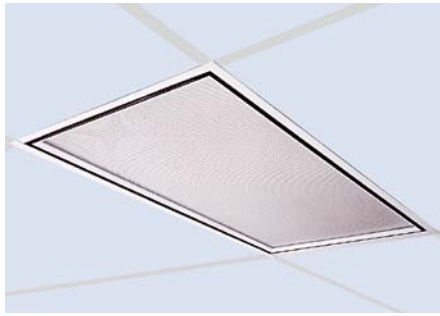
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 or TT5 ballast only)

X3

Ballast
See page 4.121

ACS2

Options
See page 4.121 and page 4.130



Prismalyte Plus 2' x 4'

Premium specification lensed recessed air handling luminaires

Prismalyte Plus luminaires are top of the line air handling lensed fluorescent luminaires with floating door appearance, regressed, aluminum doors and black painted housing for optimum lamp and ballast operations. Door frames are interchangeable with Deepcel Plus 2' x 4' louvers.

Features

- 5" deep body (2' x 4').
- Black housing exterior for cooler ballast operating temperature.
- Built-in earthquake clips on 2' x 4'.
- Hemmed over side rails for safety.
- Fixture ends turned in for safe handling.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Interchangeable with Deepcel and Parabaffle louvers.
- Spring loaded rooster head latches.

Options & accessories page 4.130

Special lenses: VA lens pattern 12 prismatic virgin acrylic is standard. For other available lenses, see options and accessories page.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
1 - 4 Lamp Elec. T8	H4* , P4**	O4*

* Instant start.

** Program start.

Consult factory for other wattages.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF24** for 2' x 4' troffer.

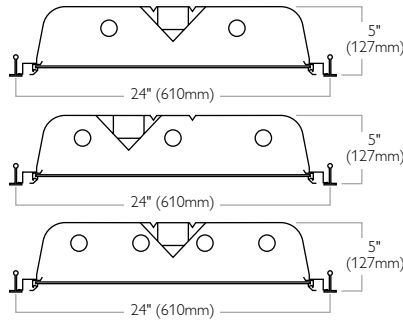
Air closure strips: **ACS4** (factory installed).
ACS4 CSP (field installed).

Chicago Plenum: Suffix: **C**.

For products that meet Chicago Plenum requirements.

For NYC code consult factory

PRA2GRFVA432UNVH4



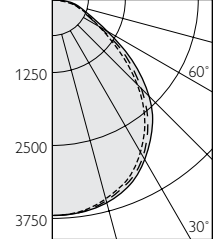
Reference data

Efficiency	76.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	109.5W
Luminaire eff. (LER)	68.7

Candlepower Curve



Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
Air handling	2' x 4'	2-T8	PRA2GRFVA232	PRA2FRFVA232
		3-T8	PRA2GRFVA332	PRA2GRFVA332
		4-T8	PRA2FRFVA432	PRA2FRFVA432
Static	2' x 4'	2-T8	PRS2GRFVA232	PRS2FRFVA232
		3-T8	PRS2FRFVA332	PRS2FRFVA332
		4-T8	PRS2GRFVA432	PRS2GRFVA432

Example

PRA2GRFVA432

Prismalyte Plus
Floating lens frame
recessed fluorescent
troffer

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 or TT5 Ballast only)

H4

Ballast
See page 4.122

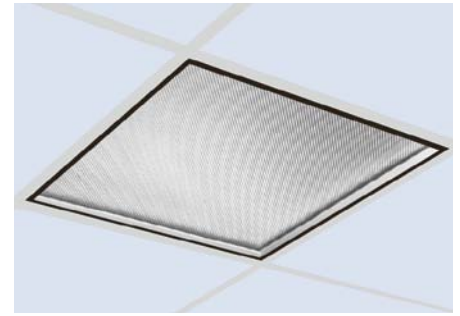
C

Options
See page 4.122
and page 4.130

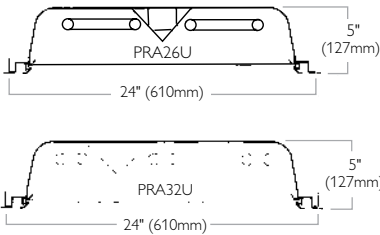
Prismalyte Plus 2' x 2' & 1' x 4'

Premium specification lensed recessed air handling luminaires

Prismalyte Plus luminaires are top of the line air handling lensed fluorescent luminaires with floating door appearance, regressed, aluminum doors and black painted housing for optimum lamp and ballast operations. Door frames are interchangeable with Deepcel Plus 2' x 2' louvers.



PRA2GRFVA26UUNVHI & PRA2GRFVA32UUNVH3



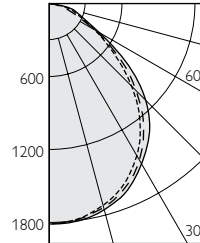
Reference data	
Efficiency	71.6%
Spacing ratio	1.2

Electronic ballast	
Input watts (120V)	60.0W
Luminaire eff. (LER)	58.0

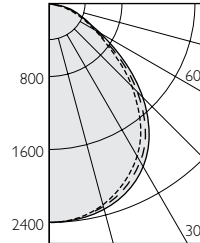
Reference data	
Efficiency	67.0%
Spacing ratio	1.3

Electronic ballast	
Input watts (120V)	76.0W
Luminaire eff. (LER)	63.4

Candlepower Curve



Candlepower Curve



Features

- 5" deep body (2' x 2').
- 4" deep (1' x 4' G Type).
- Black housing exterior for cooler ballast operating temperature.
- Built-in earthquake clips on 2' x 2'.
- Hemmed over side rails for safety.
- Fixture ends turned in for safe handling.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner aluminum lens frame.
- Interchangeable with Deepcel and Parabaffle louvers.
- Spring loaded rooster head latches.

Options & accessories page 4.130

Special lenses: VA lens pattern 12 prismatic virgin acrylic is standard. For other available lenses, see options and accessories page.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
Air handling	2' x 2'	2-T8U6	PRA2GRFVA26U	PRA2FRFVA26U
		3-T8U1.6/ 3-TT5	PRA2GRFVA32U	PRA2FRFVA32U
			PRA2GRFVA3FT	PRA2FRFVA3FT
Static	2' x 2'	2-T8U6	PRS2GRFVA26U	PRS2FRFVA26U
		3-T8U1.6/ 3-TT5	PRS2GRFVA32U	PRS2FRFVA32U
			PRS2GRFVA3FT	PRS2FRFVA3FT

Example

PRA2GRFVA26U

UNV

HI

C

Prismalyte Plus
Floating lens frame
recessed fluorescent
troffer

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 or TT5 Ballast only)

Ballast
See page 4.123

Options
See page 4.123
and page 4.130

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
1 - 3 Lamp Elec. TT5 40W	IB* , PR**	X3*
Electronic TT5 40W	IB*	SB

* Instant start.
** Program start.
Consult factory for other wattages.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.
Conversion kit for 1' x 4' unit: **FK91X4**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

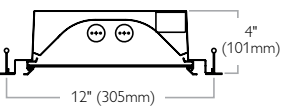
Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF22** for 2' x 2' troffer. Catalog no. **PF14** for 1' x 4' troffer.

Air closure strips: **ACS2** (factory installed).
ACS2 CSP (field installed).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

For NYC code consult factory

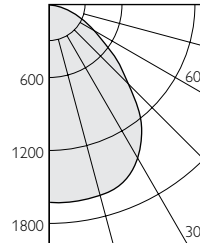
PRA1GFVA232UNVHI



Reference data	
Efficiency	65.4%
Spacing ratio	1.3

Electronic ballast	
Input watts (120V)	56.6W
Luminaire eff. (LER)	58.0

Candlepower Curve



Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
Air handling	1' x 4'	1-T8	PRA1GRFVA132	PRA1FRFVA132
		2-T8	PRA1GRFVA232	PRA1FRFVA232
Static	1' x 4'	1-T8	PRS1GRFVA132	PRS1FRFVA132
		2-T8	PRS1GRFVA232	PRS1FRFVA232

Example

PRA1GRFVA232

UNV

HI

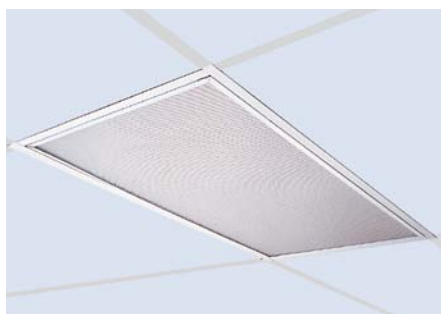
C

Prismalyte Plus
Floating lens frame
recessed fluorescent
troffer

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 or TT5 Ballast only)

Ballast
See page 4.123

Options
See page 4.123
and page 4.130



Specplus 2' x 4'

Specification grade lensed recessed static luminaires

Specplus has all the features you look for in a TRUE specification grade lens troffer. Our 5" depth reverses the industry trend of making fixtures shallower thus putting the lamps closer to the lens. And there is more.

SPS2GFSVA432UNVH4

Features

- 5" deep body (2' x 4').
- 3 1/16" lamp to lens for better lamp obscuration (2' x 4').
- 81.2% efficient (4 light).
- Clean contoured interior, no holes.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (2' x 4').
- Slimline Door frame with 475 and 1000 square inch lens openings (2' x 4').
- Door jamb finished black on four sides for positive light stop.
- True Mitered corner steel lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Flat and regressed aluminum doors available.
- Construction to meet Chicago Plenum requirements is available.

Options & accessories page 4.130

Special lenses: VA lens pattern 12 prismatic virgin acrylic is standard. For other available lenses, see options and accessories page.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
1 - 4 Lamp Elec. T8	H4* , P4**	O4*

* Instant start.
** Program start.

Drywall kit: Conversion kit for 2' x 4' unit: **FK92X4**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

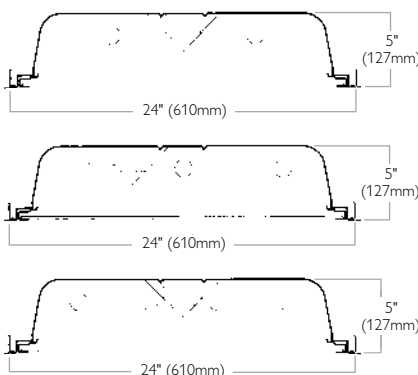
Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF24** for 2' x 4' troffer.

Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FCTRIM** (each joint).

Door frames: SPS2GFS (Flat steel door).
SPS2GFA (Flat aluminum door).
SPS2GRA (Regressed aluminum door).

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.



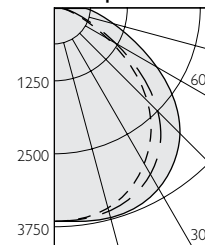
Reference data

Efficiency	81.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	108.7W
Luminaire Eff. (LER)	73.2

Candlepower Curve



Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
Static	2' x 4'	2-T8	SPS2GFSVA232	SPS2FFSVA232
		3-T8	SPS2GFSVA332	SPS2FFSVA332
		4-T8	SPS2GFSVA432	SPS2FFSVA432

Example

SPS2GFSVA432	UNV	H4	A
Specplus Lens Frame Recessed Fluorescent Troffer	Voltage 120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 or TT5 Ballast only)	Ballast See page 4.124	Options See page 4.124 and page 4.130

Sky lens

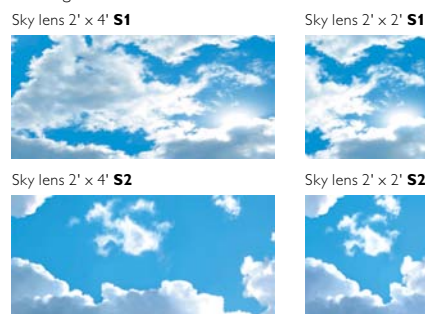


Example

Standard: **SPS2GFSVA232UNVHI**
Sky Lens: **SPS2GFS S1 232UNVHI**

The Sky lens offers an aesthetically pleasing lens option for any environment giving you the ability to customize your space. The Sky lens exudes a soothing alternative to conventional lenses when used in areas such as health care waiting or examination rooms, assisted living common areas or child care facilities.

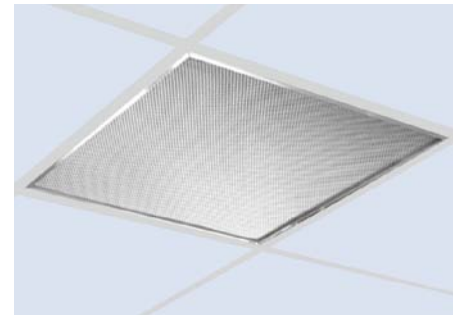
These options are available on the Philips Lightolier SpecPlus Recessed Fluorescent 2' x 2' and 2' x 4' models. To order the Sky Lens simply insert your choice of Sky lenses, **S1** or **S2**, into the standard SpecPlus (SPS) Catalog number.



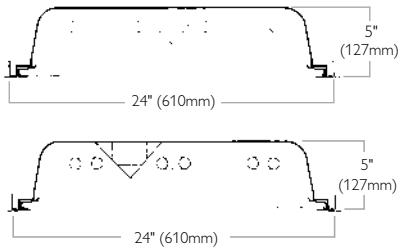
Specplus 2' x 2' & 1' x 4'

Specification grade lensed recessed static luminaires

Specplus has all the features you look for in a TRUE specification grade lens troffer. Our 5" depth reverses the industry trend of making fixtures shallower thus putting the lamps closer to the lens. And there is more.



SPS2GFSVA26UUNVHI & SPS2GFSVA32UUNVH3



Reference data

Efficiency	71.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.3W
Luminaire Eff. (LER)	63.1

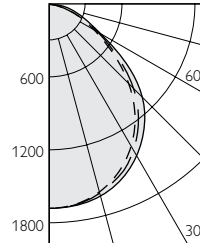
Reference data

Efficiency	67.9%
Spacing ratio	1.3

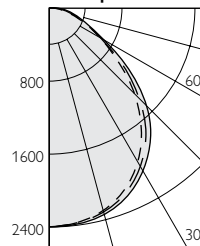
Electronic ballast

Input watts (120V)	76.2W
Luminaire Eff. (LER)	64.1

Candlepower Curve



Candlepower Curve



Features

- 5" deep body (2' x 2').
- 3 1/16" lamp to lens for better lamp obscuration (2' x 2').
- 71.6% efficient (2-6U T8).
- Clean contoured interior; no holes.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (2' x 2').
- Slimline Door frame with 475 and 1000 square inch lens openings (2' x 2').
- Door jamb finished black on four sides for positive light stop.
- True Mitered corner steel lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Flat and regressed aluminum doors available.
- Construction to meet Chicago Plenum requirements is available.

Options & accessories page 4.130

Special lenses: VA lens pattern 12 prismatic virgin acrylic is standard. For other available lenses, see options and accessories page.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
1 - 3 Lamp Elec. T8	H3*, P3**	O3*
1 - 3 Lamp Elec. TT5 40W	I3*	X3*
Electronic TT5 40W	IB*, PR**	SB*

* Instant start.

** Program start.

Drywall kit: Conversion kit for 2' x 2' unit: **FK92X2**.
Conversion kit for 1' x 4' unit: **FK91X4**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF22** for 2' x 2' troffer. Catalog no. **PF14** for 1' x 4' troffer.

Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FCTRIM** (each joint - 2' x 2'). Catalog no. **1FCTRIM** (each joint - 1' x 4').

Door frames: SPS2GFS (Flat steel door).
SPS2GFA (Flat aluminum door).
SPS2GRA (Regressed aluminum door).

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**.
For products that meet Chicago Plenum requirements.

Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
Static	2' x 2'	2-T8U6	SPS2GFSVA26U	SPS2FFSVA26U
		3-TT5	SPS2GFSVA3FT	SPS2FFSVA3FT
		3-T8U1.6/	SPS2GFSVA32U	SPS2FFSVA32U
		3-T8F17	SPS2GFSVA317	SPS2FFSVA317

Example

SPS2GFSVA26U

UNV

HI

A

Prismalyte Plus

Floating Lens Frame
Recessed Fluorescent
Troffer

Voltage

120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 or TT5 Ballast only)

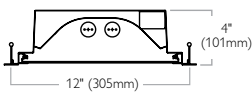
Ballast

See page 4.125

Options

See page 4.125
and page 4.130

SPS1GFSVA232UNVHI



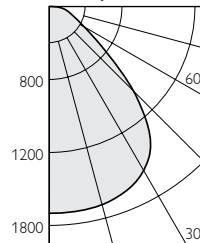
Reference data

Efficiency	69.0%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	55.8W
Luminaire Eff. (LER)	62.0

Candlepower Curve



Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
Static	1' x 4'	1-T8	SPS1GFSVA132	SPS1FFSVA132
		2-T8	SPS1GFSVA232	SPS1FFSVA232

Example

SPS1GFSVA232

UNV

HI

A

Specplus

Lens Frame Recessed
Fluorescent Troffer

Voltage

120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 or TT5 Ballast only)

Ballast

See page 4.125

Options

See page 4.125
and page 4.130



XP series 2' x 4'

High perform lensed recessed static luminaires

Philips Lightolier's XP troffer offers high efficiencies and unique features at an affordable price.

Features

- Efficiency: 83.0% (4 lamp), 85.0% (3 lamp), 87.0% (2 lamp).
- Shallow 3" deep housing.
- Ribbed housing for strength and stability.
- Ends of housing formed inward for safe handling.
- Built-in earthquake clips.
- Hemmed-over side rails for safe handling.
- Ends have screw dimples for installation to T-bar (no fixture or ceiling distortion).
- Flat steel or regressed aluminum lens frame with mitered corners.
- Edges of steel or regressed Door frame hemmed-over for safe handling.
- No light leak.
- Internal "T" hinges-easy installation and maintenance.
- Rooster head spring latches.
- Meets code 30 requirements in New England.

Options & accessories page 4.130

Special lenses: VA lens pattern 12 prismatic virgin acrylic is standard. For other available lenses, see options and accessories page.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
1 - 4 Lamp Elec. T8	H4* , P4**	O4*

* Instant start.
** Program start.

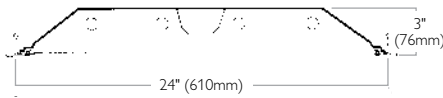
Drywall kit: Catalog no. **FK92X4** with fixtures for drywall or plaster ceilings.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF24** for 2' x 4' troffer.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

XP2GVA432UNVH4



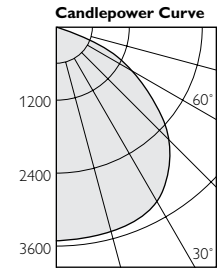
Reference data	
Efficiency	83.0%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	112.0W
Luminaire Eff. (LER)	FL - 74.3

Ordering information

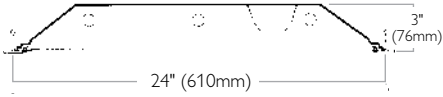
Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
XP Static	2' x 4'	4-T8	XP2GVA432	XP2FVA432

Example **XP2GVA432**

UNV	H4	A	
XP Flat Steel Lens Frame Recessed Fluorescent Troffer	Voltage 120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 Ballast only)	Ballast See page 4.126	Options See page 4.126 and page 4.130



XP2GVA332UNVH3



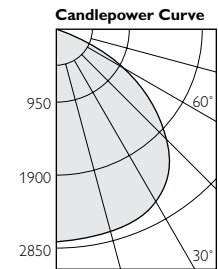
Reference data	
Efficiency	85.0%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	85.0W
Luminaire Eff. (LER)	FL - 75.2

Ordering information

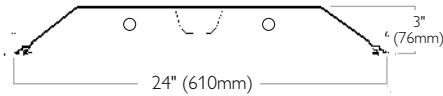
Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
XP Static	2' x 4'	3-T8	XP2GVA332	XP2FVA332

Example **XP2GVA332**

UNV	H3	A	
XP Flat Steel Lens Frame Recessed Fluorescent Troffer	Voltage 120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 Ballast only)	Ballast See page 4.126	Options See page 4.126 and page 4.130



XP2GVA232UNVHI



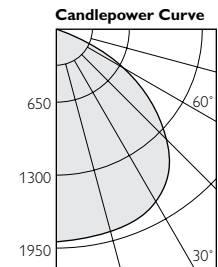
Reference data	
Efficiency	87.0%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	58.0W
Luminaire Eff. (LER)	FL - 74.3

Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
XP Static	2' x 4'	2-T8	XP2GVA232	XP2FVA232

Example **XP2GVA232**

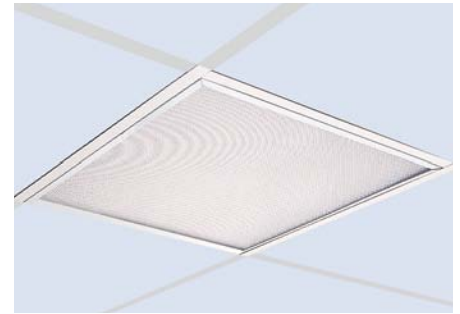
UNV	HI	A	
XP Flat Steel Lens Frame Recessed Fluorescent Troffer	Voltage 120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 Ballast only)	Ballast See page 4.126	Options See page 4.126 and page 4.130



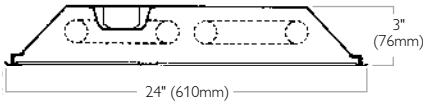
XP/XA series 2' x 2' & 1' x 4'

High perform lensed recessed static luminaires

Philips Lightolier's high performance XP/XA series of lensed troffers offers unique features that outperform and extend more value for money than any other comparable fluorescent troffer.



XP2GVA26UUNVHI



Reference data (SO)

Efficiency	71.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	55.3W
Luminaire Eff. (LER)	62.3

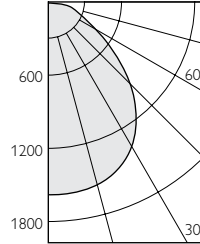
Reference data (SB)

Efficiency	84.1%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	58.0W
Luminaire Eff. (LER)	74.3

Candlepower Curve



Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid
XP Static	2' x 2'	2-TT5 2-T8U6	XP2GVA2FT XP2GVA26U
XA Static	2' x 2'	2-TT5 2-T8U6	XA2GVA2FT XA2GVA26U

Example

XP2GVA26U

XP

Flat Steel Lens Frame
Recessed Fluorescent Troffer

XA

Regressed Aluminum Lens Frame
Recessed Fluorescent Troffer

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast

See page 4.127

A

Options

See page 4.127
and page 4.130

Features

- 4" deep (1' x 4'). 3 1/2" deep (2' x 2').
- Fixture side rails have rolled-over edges for maximum safety.
- Built-in earthquake clips.
- Flush steel full-sized Door frame with mitered corner detailing.
- Angle regressed extruded aluminum door option.
- End cap has single form configuration and formed edges for easy lamping and safety.
- Door frame overlaps end cap for positive light stop.
- UL-Listed twin knock-out access plate for easy closed-door wiring.
- Fits new narrow slot grid ceiling systems.

Options & accessories page 4.130

Special lenses: VA lens pattern 12 prismatic virgin acrylic is standard. For other available lenses, see options and accessories page.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp Elec. T8	H3* , P3**	O3*
Electronic TT5 40W	IB* , PR**	SB*

* Instant start.

** Program start.

Drywall kit: Catalog no. **FK91X4** or **FK92X2** with fixtures for drywall or plaster ceilings.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Seismic Hold-Down Clip: Suffix: **2HD**. For 1' x 4', type **G**, factory installed.

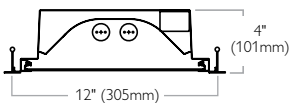
Plaster frame: For type **F** troffers, order plaster frames separately. Catalog no. **PF14** for 1' x 4' troffer.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Suffix: **C**. For products that meet Chicago Plenum requirements.

For NYC code consult factory

XP1GVA232UNVHI



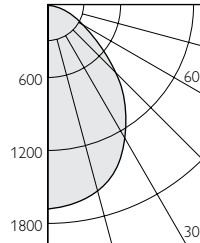
Reference data

Efficiency	69.0%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	55.8W
Luminaire Eff. (LER)	62.0

Candlepower Curve



Ordering information

Type	Size	Lamps qty-type	Exposed T-Grid	Flanged for dry or plaster
XP Static	1' x 4'	2-T8/T12	XP1GVA232	XP1FVA232
XA Static	1' x 4'	2-T8/T12	XA1GVA232	XA1FVA232

Example

XP1GVA232

XP

Flat Steel Lens Frame
Recessed Fluorescent Troffer

XA

Regressed Aluminum Lens Frame
Recessed Fluorescent Troffer

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast

See page 4.127

A

Options

See page 4.127
and page 4.130



FRX 2' x 2'

Recessed luminaires

The FRX Series offers an architecturally decorative lighting element that will enhance your boardrooms, entrances or executive offices. The 2' x 2' frosted white acrylic lens with softly rounded edges provides a luminescent glow of light.

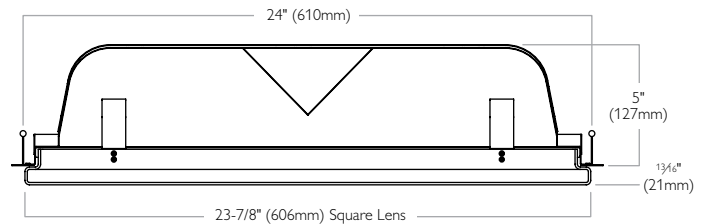
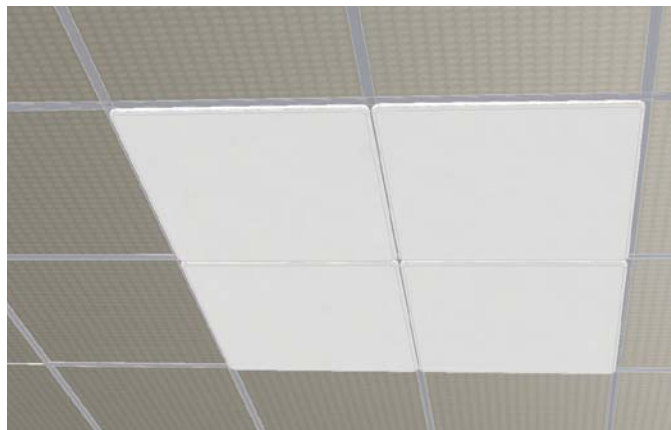
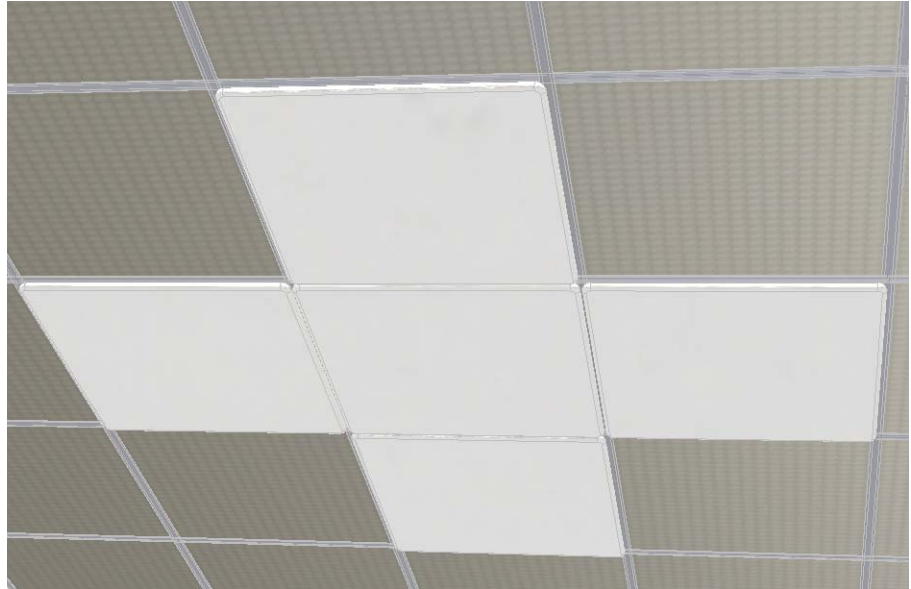
Features

- Creative side-by-side installations can generate rows, squares, rectangles, "+" shapes, "T" shapes and other geometric figures.
- Illuminates both horizontal and vertical surfaces.
- Lens opens from either side.
- Lens utilizes spring loaded latches/hinge.
- 5" deep body.
- Fixture fits a Standard 15/16" or 9/16" T-grid ceiling.

Options & accessories [page 4.130](#)

Ballast type	<10THD	<20THD
2 Lamp Elec. T5HO 14/24W	PG	–
2 Lamp Elec. TT5 25/40W	IB*	SB*
2 Lamp Elec. TT5 40W	PR**	–
2 Lamp Elec. TT5 50W	–	BP
2 Lamp Elec. TT5 55W	BF	–
LOL Dimming TT5	–	PB
1-2 Lamp Elec. T8	HI	SO
LOL T8 Dimming	–	PS

* Instant start.
** Program start.



Ordering information

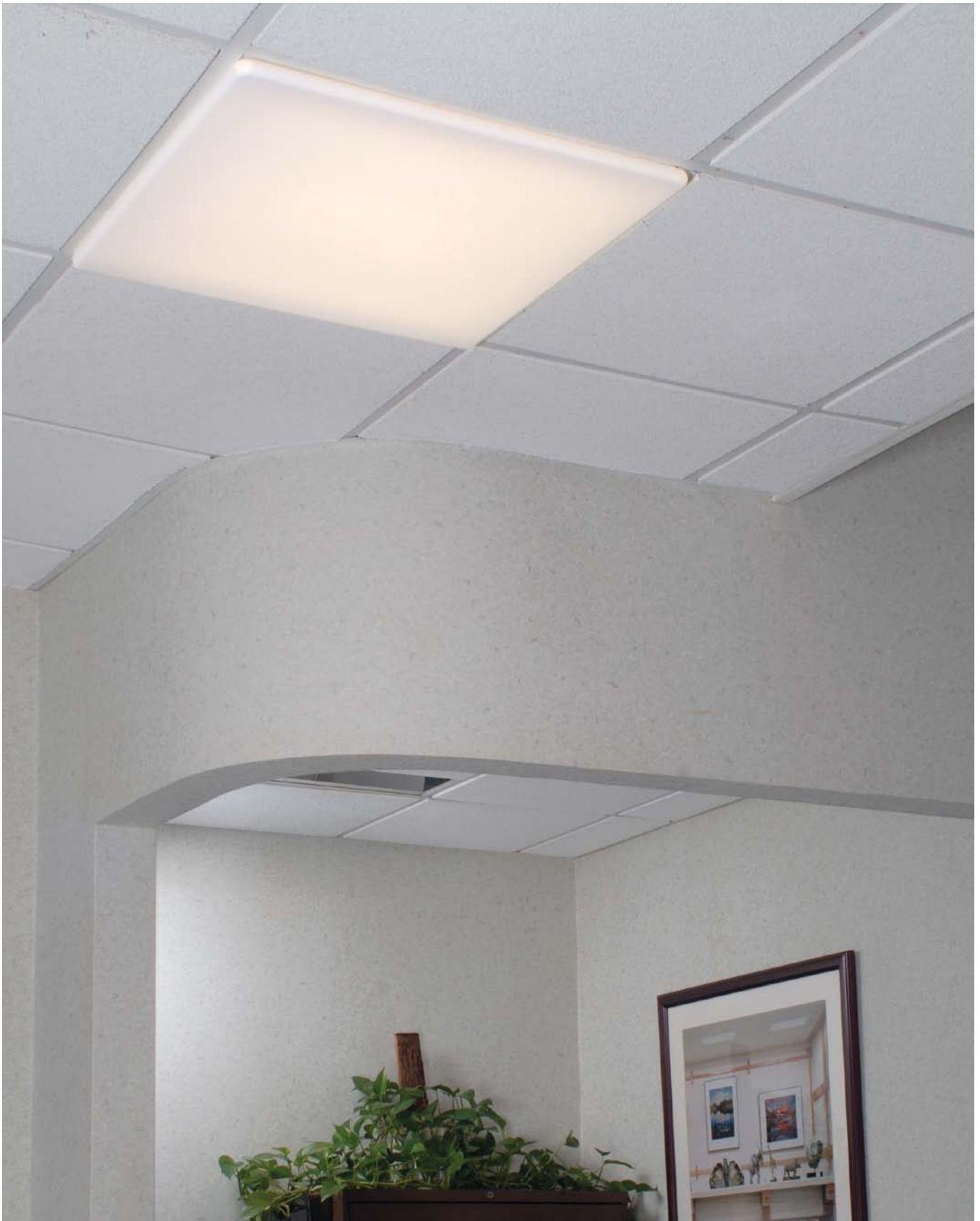
Cat. no.	Fixture efficiency	Lamps type	Lamp watts
FRS2GFW2FTUNVIB	74.0%	2-TT5	25W
FRS2GFW26UUNVHI	62.2%	2-6" UT8	
FRS2GFW224UNVPG	66.0%	2-T5HO	24W
FRS2GFW324UNVPG	70.0%	3-T5HO	24W

Ordering information

FR	S	2	G	F	W					
Family	Body style	Width	Ceiling type	Lens style	Reflector	Lamp qty	Lamps	Voltage	Ballast	Options
FR = FRX	S = Static	2 = 2 Foot	G = Standard Grid 15/16" or 9/16" ceiling type	F = Frost White Acrylic	W = White	2 = 2 Lamp 3 = 3 Lamp	FT = TT5 6U = 6" UT8 14 = 14W T5HO 24 = 24W T5HO (Nominal 24")	120 = 120V 277 = 277V UNV = 120-277V	See page 4.128	See page 4.128 and page 4.130

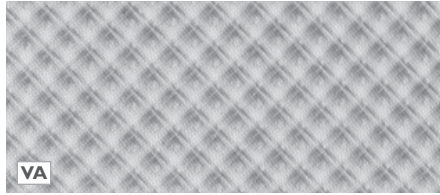
FRX 2' x 2'

Recessed luminaires



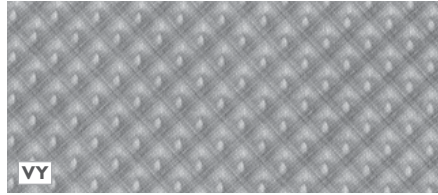
Options & accessories

Fluorescent lenses, diffusers, louvers and recessed luminaire options



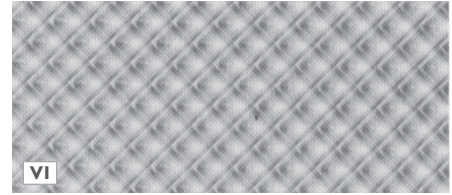
Philips Lightolier Standard Shielding. Extruded virgin acrylic, 3/16" square based female cones, running 45° to the panel edge. .095" nominal thickness (similar to pattern 12).

Catalog no. Substitute: **SPS2GFS** **VA** **332UNVH3**.



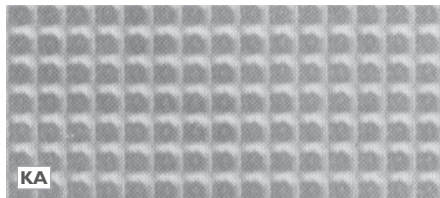
Excellent obscuration and control (similar to K12). .125" nominal thickness, extruded virgin acrylic lens, (average weight per square foot is 7.8 ounces).

Catalog no. Substitute: **SPS2GFS** **VY** **332UNVH3**.



Economy with more rigidity. .125" nominal thickness, extruded virgin acrylic lens, (average weight per square foot is 6.8 ounces).

Catalog no. Substitute: **SPS2GFS** **VI** **332UNVH3**.



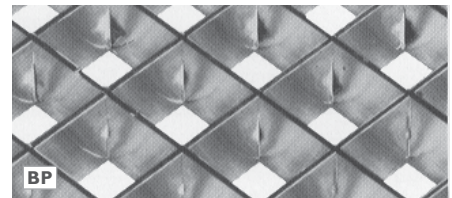
Extruded acrylic, square base male conical prism. .156" overall thickness (similar to K19 pattern).

Catalog no. Substitute: **SPS2GFS** **KA** **332UNVH3**.



Injection molded acrylic parabolic louver, 1 1/2" x 1 1/2" x 1" cell size, with silver specular protected by a clear acrylic.

Catalog no. Substitute: **SPS2GFS** **MC** **332UNVH3**.



Injection molded polystyrene plastic, parabolic louver. 1/2" x 1/2" x 1/2" cell size, with metallized specular finish.

Catalog no. Substitute: **SPS2GFS** **BP** **332UNVH3**.

For additional shieldings, consult your local Philips Lightolier Representative.



Lamps installed

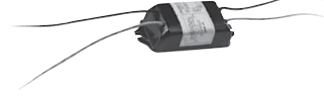
Consult factory after ascertaining wattage, diameter, color rendering, color temperature.



Internal fusing

A = Internal fast-blow fusing.
C = Internal slow-blow fusing.

e.g. **SPS2GFSVA332UNVH3** **A**



Radio interference filter

R = Inductive capacitor circuit designed to minimize interference from line radiation or feedback. 120 or 277 volt at 50 or 60Hz.

e.g. **DPA2G18LS332120O3** **R**
(one per fixture **R**)

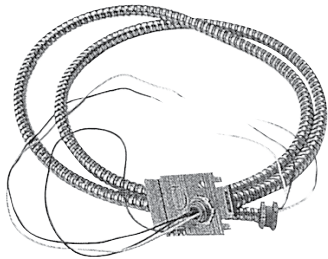
e.g. **DPA2G18LS332120SO** **B**
(one per ballast **B**)



Fluorescent emergency lighting system

EM = EM Factory-installed emergency power battery pack with charger and inverter, B100 or equal, 120V or 277V.

e.g. **SPS2GFSVA332120O3** **EM**



Prewiring

FF6; **FF14** 3/8" factory prewired cable wired into fixture. Configurations available in various wire gauges, numbers of wires and lengths up to 6'.

e.g. **DPA2G18LS332UNVH3** **FF6**
(3 #18 AWG leads, 6' long);

e.g. **DPA2G18LS332INVHI** **FF14**
(4 #18 AWG leads, 6' long).

e.g. **DPA2G18LS332120SOEM** **FF92**
(5 #18 AWG leads, 6' long).



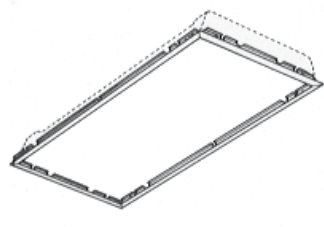
Job-packed

J = Uncartoned fixtures on pallets are secured by heavy-duty corrugated protectors.

31" x 50" x 78"

e.g. **DPA2G18LS332UNVH3** **J**

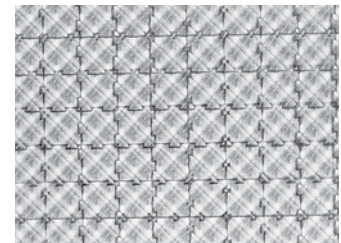
* Consult factory for quantities



Flange kit

Attaches to Philips Lightolier recessed bodies, except **XP** and **XA**. For continuous rows, half-width flanges are required between fixtures.

2 x 4 = **S2X4F** Kit
2 x 2 = **S2X2F** Kit
1 x 4 = **S1X4F** Kit
see folio OA30-30



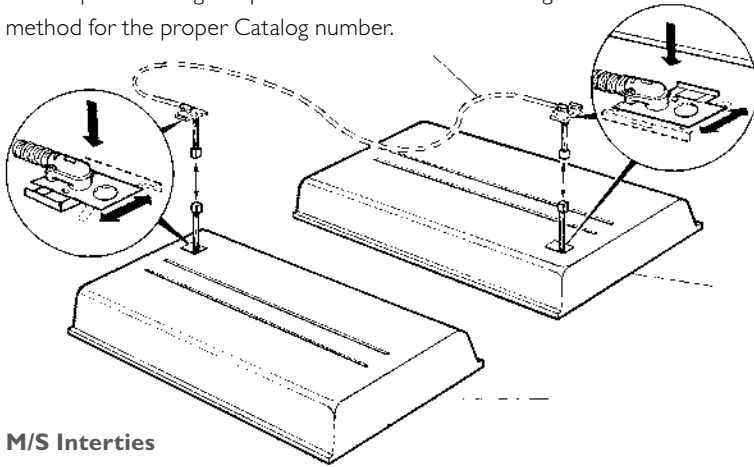
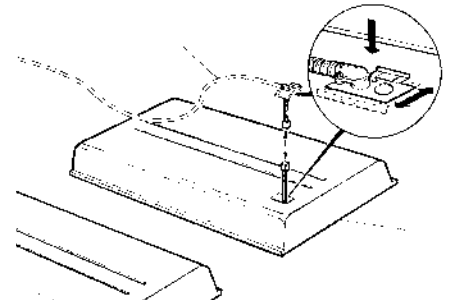
Radio frequency shielding

For hospitals, TV stations or wherever sensitive electronic equipment is in use. Consult factory.

M/S interties

Quick connect interties for master/satellite troffers

Master/satellite troffers are quoted as a single line item, but are shipped as 3 line items to a job, the Master Troffer, the Satellite Troffer and the Intertie. All are bulk packed. This requires writing 3 separate line items. The following is the method for the proper Catalog number.



Features

- Quick connect plug-in.
- Snap-in access plate for easy connection.
- Polarized nylon plugs for positive error free connections.
- 90° connectors fit shallow plenums.
- Reduced installation labor costs.
- Fits CF, DP, SP, MP, LC, LI, MB, PP, PR, VP, XP, XA and VR troffer families.
- Master/satellite requires fewer ballasts reducing energy costs.

M/S Interties

Master Satellite for:

CF, DP, SP, MP, LC, LI, PP, PR, VP, XP, XA and VR Series

Instant start (1) 2 lamp electronic ballast
 INT09I2XXXXX 2-1 Lamps Units 9' length
 INT11I2XXXXX 2-1 Lamps Units 11' length

Instant start (1) 4 lamp electronic ballast
 INT09I4XXXXX 2-2 Lamps Units 9' length
 INT11I4XXXXX 2-2 Lamps Units 11' length

Instant start (1) 4 lamp and 2 lamp electronic ballast
 INT09I42XIO 2-3 Lamps Units 9' length
 INT11I42XIO 2-3 Lamps Units 11' length

Program start (1) 2 lamp electronic ballast
 INT09P2XXXXX 2-1 Lamps Units 9' length
 INT11P2XXXXX 2-1 Lamps Units 11' length

Program start (1) 4 lamp electronic ballast
 INT09P4XXXXX 2-2 Lamps Units 9' length
 INT11P4XXXXX 2-2 Lamps Units 11' length

Instant start (2) 2 lamp electronic ballast for tandem Inline
 INT09I22XTI 2-2 Lamps Units 9' length
 INT11I22XTI 2-2 Lamps Units 11' length

Program start also available in tandem inline replace **I** with **P**
 (e.g: **INT09P22XTI**).

Typical Master Troffer Catalog no.

(e.g: Deepcel Family = **DPA2G18LS332120SO2XX**)

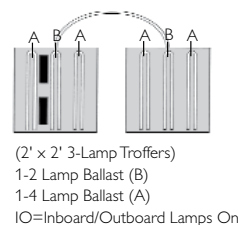
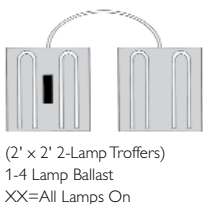
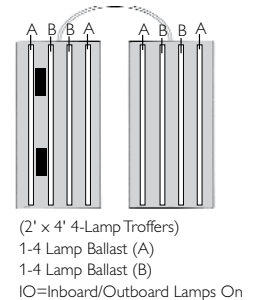
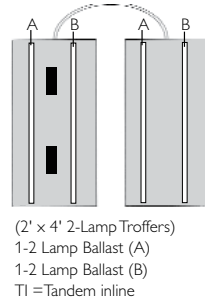
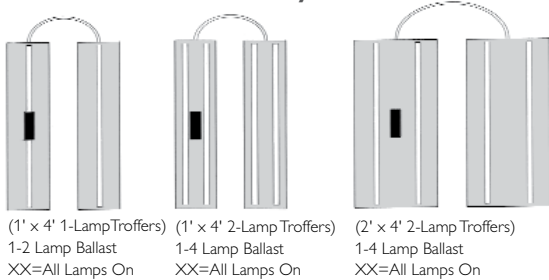
DPA2G18LS	Lamp Qty	Lamp Type	Voltage	Ballast Type	Ballast Qty (1' x 4' only)
	2 = 2 Lamp	32 = T8	120 = 120V	SO = 20THD	2X = 1-2 Lamp (2' x 2'/2' x 4')
	3 = 3 Lamp		277 = 277V	HI = 10THD	22 = 2-2 Lamp
	4 = 4 Lamp				4X = 1-4 Lamp
					42 = 1-2 Lamp & 1-4 Lamp (IS only)
					44 = 2-4 Lamp (IS only)

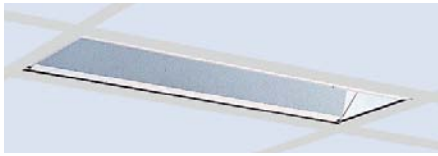
Typical Satellite catalog no.

(e.g: Deepcel Family = **DPA2G18LS332XXXXSO42X**)

DPA2G18LS	Ballast in master troffer	Must match ballast quantity code in master troffer Catalog number
	No Ballast	SO = 20THD
	Ballast in master troffer	HI = 10THD

Master/Satellite troffer layouts





Wal-Lyter high performance 2' & 4'

Recessed wall washer/accent luminaires

Wal-Lyter is a high performance wall-washer that delivers an exceptionally even wash of light from the ceiling line to the floor line utilizing TT5 (Biax Type) compact fluorescent lamps. It is much more efficient and more cost effective than most incandescent units producing equivalent illumination. Wal-Lyter is ideal for highlighting merchandise displays, brightening the walls in offices illuminating with sharp cut-off parabolics and for many other wall lighting applications.

Features

- Low iridescent specular reflector system for precise controlled light output.
- Evenly lights vertical surfaces or displays.
- 87% energy savings vs. incandescent.
- 1,250 lumen (18 watt), 3150 lumen (40 watt) Biax type lamp requires fewer fixtures to provide the same wall illumination as a 60 watt incandescent wallwasher.
- 20,000 hours lamp life requires less maintenance than incandescent wallwasher.
- Fits all lay-in grid ceiling systems.
- One-piece body and integral hanger for easy, quick installation.
- UL-Listed access plate.
- Meets NYC Code requirements.
- WLRK lens, extruded acrylic (similar to K19 pattern), see page 4.130.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **120SB**.

Ballast type

Electronic		PowerSpec HDF dimming	
18W TT5	BA	40W TT5	PB
24W TT5	BB		
40W TT5	IB*, PR**		
50W TT5	BE		
55W TT5	BF		

* Instant start.
** Program start.



Drywall kit: Catalog no. **WL2DF/UNV** with 2' fixtures and **WL4DF/UNV** with 4' fixtures.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

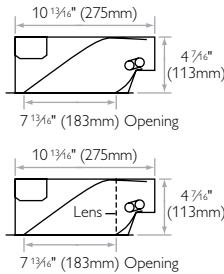
Radio interference filter: Suffix: **R**.
120 or 277 volt at 50 or 60Hz.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chicago Plenum: Consult factory.

WLRN124UNVPR

2' fixture, 1 lamp 40 watt TT5

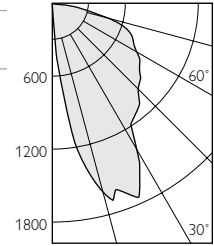


Ordering information

Lamps qty-type	Lamp watts	No lens cat. no.	With lens cat. no.
1-TT5	18W	WLRN121	WLRK121
	24W	WLRN122	WLRK122
	40W	WLRN124	WLRK124
	50W	WLRN125	WLRK125
	55W	WLRN126	WLRK126

Nominal Length 24" Units

Candlepower Curve

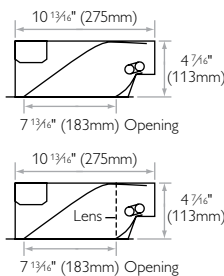


Footcandles on wall: Fixtures 3 feet from wall to outside trim on lamp side of fixture (without lens)

Ceiling	Individual Wal-Lyter								Multiple Units												
	0'	1'	2'	3'	4'	5'	6'	7'	8'	4'			6'								
8'	76	67	46	25	14	8	5	4	3	107	104	102	104	107	86	79	63	50	63	79	86
7'	64	60	46	29	17	10	7	5	4	102	104	106	104	102	78	75	67	58	67	75	78
6'	47	44	36	24	17	12	8	6	4	85	86	88	86	85	63	62	57	48	57	62	63
5'	33	34	29	24	14	10	8	6	5	66	74	74	74	66	49	50	48	48	48	50	49
4'	26	28	23	20	14	11	8	6	5	59	65	62	65	59	42	45	42	40	42	45	42
3'	19	21	20	17	12	9	8	6	5	48	53	56	53	48	35	36	37	34	37	36	35
2'	15	16	15	13	11	9	8	6	5	42	44	46	44	42	31	31	31	26	31	31	31
1'	13	12	11	11	10	8	7	6	5	38	37	36	37	38	28	26	26	22	26	26	27
Floor																					

WLRN244UNVPR

4' fixture, 2 lamp 40 watt TT5

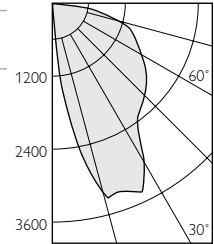


Ordering information

Lamps qty-type	Lamp watts	No lens cat. no.	With lens cat. no.
2-TT5	18W	WLRN241	WLRK241
	24W	WLRN242	WLRK242
	40W	WLRN244	WLRK244
	50W	WLRN245	WLRK245
	55W	WLRN246	WLRK246

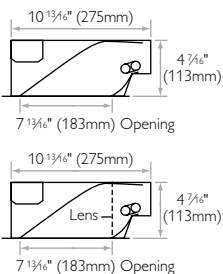
Nominal Length 48" Units

Candlepower Curve



WLRN241UNVPR

Footcandles on wall fixtures: 3 feet from wall to outside trim on lamp side of fixture (without lens)



Ordering information

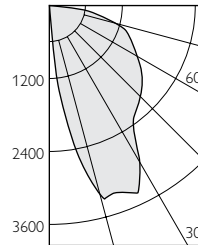
Lamps qty-type	Lamp watts	No lens cat. no.	With lens cat. no.
2-TT5 Twin tube	18W	WLRN241	WLRK241

Nominal Length 48" Units

Integral hanger fixture: installs easily with adjustable integral hanger that clamps to T bar. Wire fixture through access plate without opening lamp compartment.



Candlepower Curve



Ceiling	Individual Wal-Lyter								
	0'	1'	2'	3'	4'	5'	6'	7'	8'
8'	111	101	75.5	47.8	28.3	18.1	13.2	10.4	8.7
7'	113	104	81.7	55.7	35.5	23.5	16.6	12.5	9.8
6'	86.4	81.0	66.9	49.8	34.8	24.6	17.7	13.4	10.4
5'	62.5	59.1	51.4	41.6	31.9	24.3	18.4	13.9	10.7
4'	50.5	48.6	42.9	35.6	28.7	22.6	18.0	14.3	11.1
3'	39.7	38.5	34.9	30.0	25.1	20.6	16.9	14.1	11.4
2'	31.1	30.3	28.1	25.0	21.7	18.5	15.7	13.4	11.1
1'	24.2	23.6	22.5	20.8	18.7	16.6	14.6	12.8	11.0
Floor									

Example

WLRN124
Wal-Lyter
High Performance
Wall Washer

UNV
Voltage
120 = 120V
277 = 277V
UNV = 120-277V

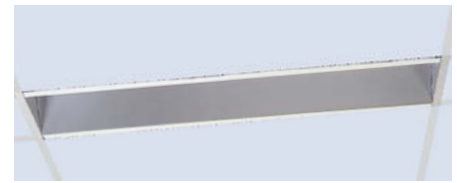
PR
Ballast
See page 4.132

A
Options
See page 4.132
and page 4.130

Walmaster 2' & 4'

Recessed wall washer/accent luminaires

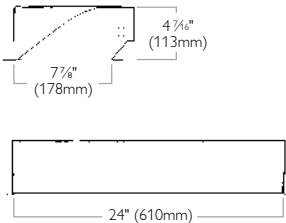
Walmaster is a high performance luminaire with low-iridescence semi-specular reflectors that do not protrude below the ceiling line. This provides a clean appearance while controlling the light output of a T8 or TT5 (twin tube) lamp to illuminate vertical surfaces uniformly.



Features

- Low iridescence specular reflector system for precise controlled light output.
- Evenly lights vertical surfaces or displays (no scallops).
- 87% energy savings vs. incandescent.
- Less than 3:1 maximum to minimum wall illumination when installed 6 feet on center.
- 20,000 hours lamp life requires less maintenance than incandescent.
- No edges protrude below ceiling line.
- Can be installed only 2 feet from wall to farthest edge of fixture (3' maximum).
- Fits all standard and narrow grid ceiling systems.
- One-piece body and integral hanger for easy, quick installation.
- Sides of fixture can support tile or sit on T-bar.
- UL Listed access plate.
- Meets NYC Code requirements.

WMRL124UNVPR



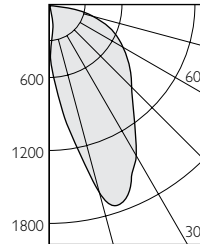
Ordering information

Lamps qty–type	Lamp watts	Catalog number
	18W	WMRL121
	24W	WMRL122
1-TT5	40W	WMRL124
	50W	WMRL125
	55W	WMRL126

Nominal Length 24" Units

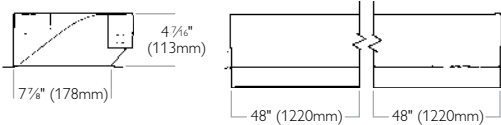
2' fixture, 1 lamp 40 watt TT5

Candlepower Curve



Ceiling	INDIVIDUAL WALMASTER							MULTIPLE UNITS						CONJUGIOUS																											
	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	0'	1'	2'	3'	4'	5'	6'	7'	8'																			
8'	52	41	32	24	18	14	11	7	64	55	47	41	61	51	43	35	29	25	21	18	15	13	119	109	100	91	83	75	67	60	53	47	41	35	29	25	21	18	15	13	11
7'	36	28	21	15	11	8	6	5	43	37	31	27	36	30	25	21	18	15	13	11	9	8	86	79	73	67	61	55	50	45	40	35	31	27	23	20	17	14	12	10	8
6'	23	18	13	9	7	5	4	3	29	25	21	18	23	19	16	13	11	9	8	7	6	5	54	50	46	42	38	34	31	27	24	21	18	15	13	11	9	8	7	6	5
5'	16	12	9	6	5	4	3	2	20	17	14	11	16	13	11	9	8	7	6	5	4	3	44	40	37	34	31	27	24	21	18	15	13	11	9	8	7	6	5	4	3
4'	11	8	6	4	3	2	1	1	14	11	9	7	11	9	7	6	5	4	3	2	1	1	35	32	29	26	23	20	18	15	13	11	9	8	7	6	5	4	3	2	1
3'	8	6	4	3	2	1	1	1	10	8	6	5	8	6	5	4	3	2	1	1	1	1	28	26	23	20	18	15	13	11	9	8	7	6	5	4	3	2	1	1	1
2'	6	4	3	2	1	1	1	1	7	5	4	3	6	4	3	2	1	1	1	1	1	1	22	20	18	15	13	11	9	8	7	6	5	4	3	2	1	1	1	1	1
1'	4	3	2	1	1	1	1	1	5	4	3	2	4	3	2	1	1	1	1	1	1	1	17	15	13	11	9	8	7	6	5	4	3	2	1	1	1	1	1	1	1

WMRL244UNVPR



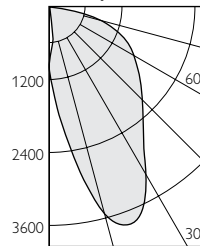
Ordering information

Lamps qty–type	Lamp watts	Catalog number
	18W	WMRL241
	24W	WMRL242
2-TT5	40W	WMRL244
	50W	WMRL245
	55W	WMRL246

Nominal Length 48" Units

4' fixture, 2 lamp 40 watt TT5

Candlepower Curve



Ceiling	Individual Wal-Lyter								
	0'	1'	2'	3'	4'	5'	6'	7'	8'
8'	116	88	51	30	19	13	10	8	8
7'	119	102	71	45	29	19	14	11	11
6'	92	83	64	45	31	22	16	12	12
5'	69	64	53	40	30	22	16	13	13
4'	52	50	43	35	27	21	17	13	13
3'	40	39	35	30	24	19	15	11	11
2'	32	31	29	25	21	17	13	10	10
1'	26	25	23	21	18	15	12	9	9

Ballast type

Electronic		PowerSpec HDF dimming	
18W TT5	BA	40W TT5	PB
24W TT5	BB	T8	PS†
40W TT5	IB*, PR**		
50W TT5	BP		
55W TT5	BF		
T8	HI*		

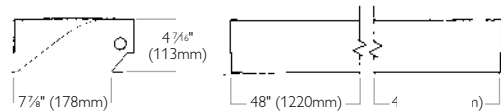
* Instant start. † 4' unit only
** Program start.

Drywall kit: Catalog no. **WL2DF/UNV** with 2' fixtures and **WL4DF/UNV** with 4' fixtures.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

WMRL143UNVHI



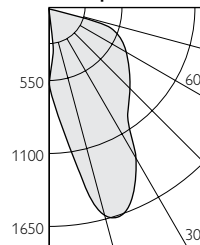
Ordering information

Lamps qty–type	Lamp watts	Catalog number
1-T8	32W	WMRL143

Nominal Length 48" Units

4' fixture, 1 lamp 32 watt T8

Candlepower Curve



Ceiling	Individual Wal-Lyter							
	0'	1'	2'	3'	4'	5'	6'	7'
8'	49	38	21	12	8	5	4	3
7'	49	42	29	18	12	8	6	4
6'	36	33	25	18	12	8	6	5
5'	27	25	21	16	12	9	7	5
4'	21	20	17	14	11	8	7	5
3'	16	16	14	12	9	8	6	5
2'	13	13	12	10	9	7	6	5
1'	11	10	10	9	8	6	6	5

Example

WMRL124

Walmaster
High Performance
Wall Washer

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

PR

Ballast
See page 4.133

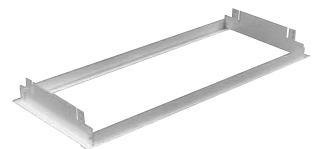
A

Options
See page 4.133
and page 4.130

Drywall kit:

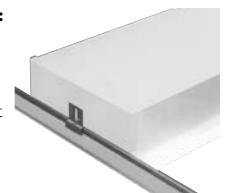
WL2DF/UNV with 2' fixtures

WL4DF/UNV with 4' fixtures



Integral Hanger Fixture:

installs easily with adjustable integral hanger that clamps to T-bar. Wire fixture through access plate without opening lamp compartment.

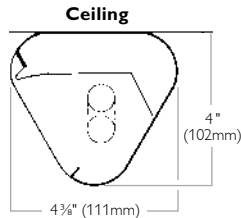




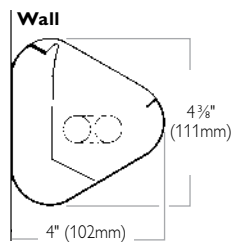
Bi-lyter 2' & 4'

Surface wall washer or indirect wall mount luminaires

BLSF124120SB



Wall washer

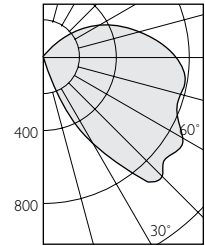


Indirect wall mount

Ordering information

Length	Lamps qty-type	Lamp watts	Catalog number
24"	1-TT5	18W	BLSF121
		24W	BLSF122
		40W	BLSF124
		50W	BLSF125
		55W	BLSF126
48"	2-TT5	18W	BLSF241
		24W	BLSF242
		40W	BLSF244
		50W	BLSF245
		55W	BLSF246
48"	1-T8	32W	BLSF143

Candlepower Curve



Features

- Same fixture can be used as a wall washer when ceiling mounted, or for indirect lighting when wall mounting.
- Only 4" deep.
- Meets ADA when wall mounted.
- Soft rounded corners and edges create an elegant appearance.
- 20 gauge cold rolled steel body.
- Specular reflector.
- No visible hardware.
- 4' unit 2-TT5 or 1-T8 lamp.
- 2' unit TT5 lamp.
- Flat white baked acrylic finish (standard).
- Can be used in continuous rows. Consult factory.
- Meets NYC Code requirements.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
TT5	IB*	SB
T8	HI*	SO*

* 4' unit only

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Wall mount spacer: Order **BL spacer**. For uneven walls or a floating visual effect.

Continuous row coupler: Order **BL coupler**.

T-Grid mounting: Order **BL mount**.

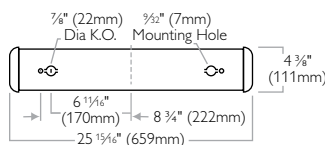
Footcandles on wall: Fixtures 3 feet from wall to outside trim on lamp side of fixture (Wall Washer)

Ceiling	Individual Wal-Lyter								Multiple Units								Continuous Row													
	0'	1'	2'	3'	4'	5'	6'	7'	8'	4'				6'				0'	1'	2'	3'	4'	5'	6'	7'	8'				
8'	4	5	6	9	14	25	46	72	86	100	98	92	98	100	93	82	60	50	60	82	93	157	184	199	204	207	204	199	184	157
7'	4	5	6	9	14	24	40	60	70	83	84	81	84	83	76	69	54	47	54	69	76	134	158	170	176	178	176	170	158	134
6'	4	5	6	9	13	20	31	42	47	59	63	63	63	59	53	51	44	41	44	51	53	101	118	128	134	135	134	128	118	101
5'	4	5	6	7	10	16	22	27	30	40	43	43	43	40	35	35	32	31	32	35	35	71	82	89	93	94	93	89	82	71
4'	3	4	5	6	8	10	13	15	17	24	26	26	26	24	21	21	21	21	21	21	45	51	55	57	58	57	55	51	45	
3'	3	3	4	5	6	7	8	9	9	15	16	16	16	15	13	14	14	14	14	13	30	33	35	36	36	36	35	33	30	
2'	3	3	3	4	4	5	5	6	6	10	10	11	10	10	9	9	9	9	9	9	21	23	24	25	25	25	24	23	21	
1'	2	3	3	3	4	4	4	4	4	8	8	8	8	8	7	7	7	7	7	7	17	17	18	18	19	18	18	17	17	
Floor																														

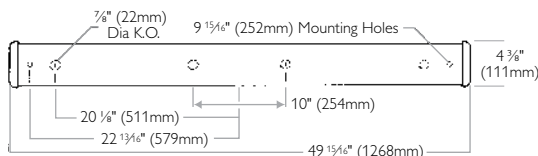
Small office application

Only four By-Lyters 55 watt lamp are required to illuminate a 12' x 12' (80/80/50) office space to 50 maintained footcandles with only 1.68 watts per square foot.

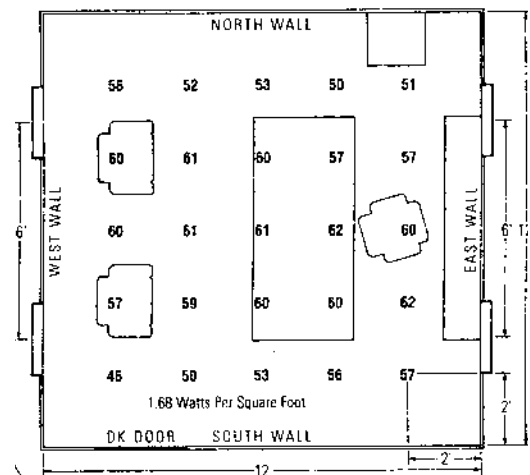
2" Unit



4" Unit



12'x12' Office Space/9' Ceiling Height



Luminaire: mounted 18" from ceiling 12' x 12' Office Space with a 9' Ceiling Height

Reflectance: 80% Ceiling, 80% Wall, 50% Floor.

Reported numbers are maintained footcandles at desk top level with 55 watt lamp. Footcandle readings will vary depending on room reflectance.

Medical luminaires



Contents

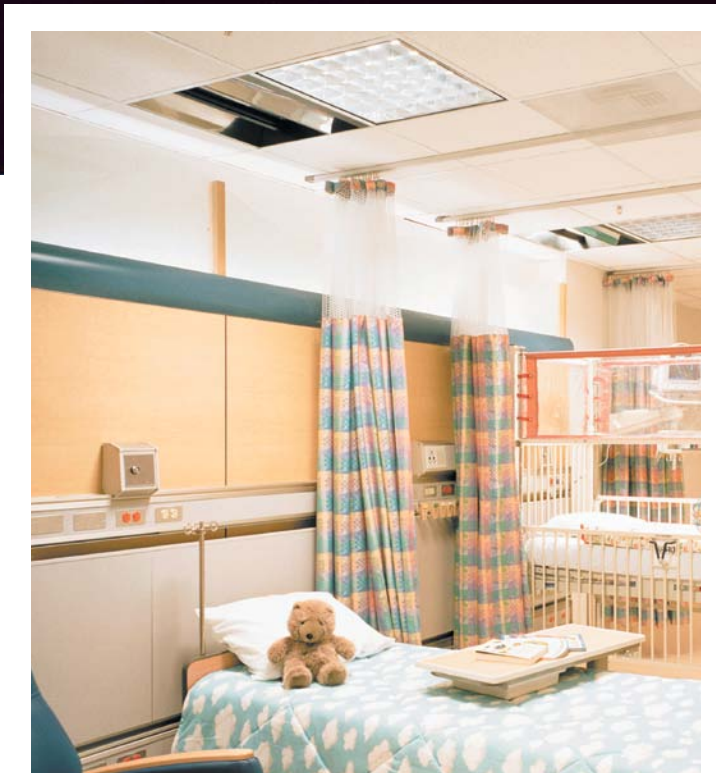
MD*4 & MD*2	>	4.138
MD* Coffey	>	4.140
MD*A Assymetric	>	4.142
OBL & SUS 432/632	>	4.144



Medical luminaires

Hospital patient room lighting

Philips Lightolier's MD* series luminaires combine all of the lighting functions in a patient's room into a single, ceiling-mounted luminaire. Removing lighting from walls and other locations where it may be interfering with equipment and prone to damage. It supports a friendly and more residential design for the entire room.



MD*4 installs at the edge of the ceiling and provides ambient, reading, examination, and night lighting – all from carefully shielded sources. MD*Coffer installs 12-18" from the wall and provides the same lighting functions, using an indirect coffer for the ambient and reading light.

Medical luminaires

Hospital patient room lighting



MD* Coffered style

MD* Coffered

- Indirect ambient light with perforated mesh shield.
- Four integral lighting functions: indirect ambient, direct reading, examination and optional night light.
- Installs as a one-piece unit.
- Precise light control for glare-free patient environment.
- Recessed or surface mounted to ceiling which eliminates damage to fixture from hospital equipment attached to patient's bed.
- Optional low voltage electronic sequential switch mounted in fixture for ambient and reading light controlled with pillow speaker (optional by others).
- Meets NYC Code requirements. Chicago Plenum requirements available.
- 6 7/8" deep.
- All lamps are shielded.
- All twin tube T5 lamps are accessible for relamping without tools.



MD*4 Series

- Four lighting functions with integral ambient, reading, examination and optional night light.
- Installs as a one-piece unit.
- Precise light control for glare free patient environment.
- Recessed or surface mounted to ceiling against wall directly behind patient which eliminates damage to fixture from hospital equipment attached to patients bed.
- Optional low voltage electronic sequential switch mounted in fixture for ambient and reading light controlled with pillow speaker (optional by others).
- Meets NYC Code requirements. Chicago Plenum requirements available.
- 6 7/8" deep.
- All lamps are enclosed.
- All twin tube T5 lamps are accessible for relamping without tools.

MD*4 Style 3 (AW option)

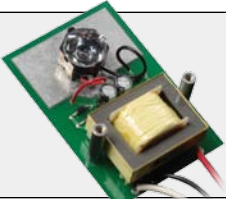
All components white
For single patient room



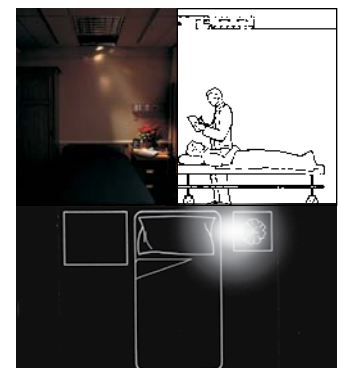
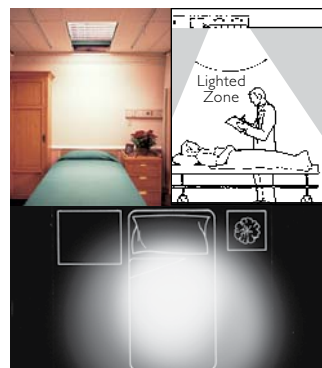
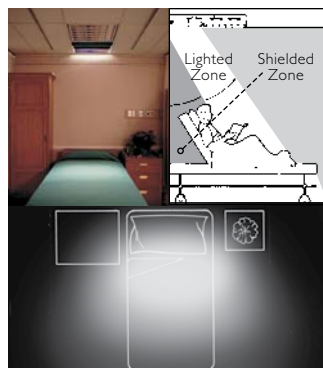
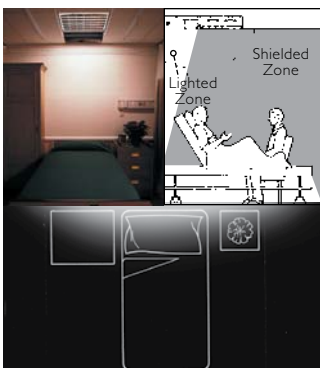
MD*4 Style 2 (FF option)

White louver and horizontal surfaces to blend with ceiling
For multiple patient room





Optional LED Night Light
Night Light: 120V or 277V, 3 watt, cool white LED (50,000 hours life - supplied with fixture).
Suffix: LD (available on MD*4 only).



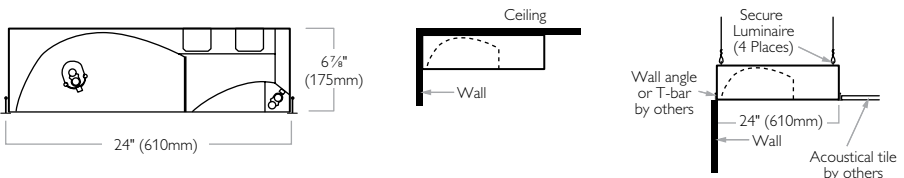
MD*2 series 2' x 2'

Multi-function patient room luminaire (ambient/reading/nurse's night light)

MD*4 combines all of the lighting functions in a patient's room in a single luminaire that is ceiling mounted to permit clean headwalls. This enables architects and interior designers to create a more home-like environment and moves the light luminaire off the wall, a location where it can be damaged easily or interfere with medical equipment. MD*4 is more efficient and more economical than all other patient lighting systems.



MD*2 2' x 2'



Features

- 2 x 2 Unit has three lighting functions with integral ambient, reading, and optional nurse's night light.
- Specular aluminum reflectors for precise light control and glare free patient environment.
- Installs as a one-piece unit. Recessed or surface mounted to ceiling against wall directly behind patient.
- Eliminates damage to luminaire from hospital equipment attached to patient bed.
- 6 7/8" deep.
- Top wiring access plate is standard.
- All lamps are enclosed.
- All TT5 type lamps (not included) are accessible for relamping without tools.
- Rugged 20 gauge steel housing.
- Optional low voltage (1-3 volts) electronic sequential switch mounted in luminaire for ambient and reading light controlled with pillow switch (by others).

Ambient light

- Indirect illumination from wall directly behind patient provides glare-free lighting.
- No direct glare to patient (Light is directed towards wall).
- No direct glare to patients visitor.
- No direct glare to adjacent patients. (3 footcandles maximum on wall behind adjacent patient's bed.)

Ambient Light/On										Adjacent MD*4/Off				
45	110	140	110	45	14	4	2	1	1	1	1	1	1	1
44	83	96	83	44	19	7	3	2	2	1	1	1	1	1
30	45	50	45	30	16	8	4	3	3	2	1	1	1	1
16	20	22	20	16	11	7	4	3	3	2	1	1	1	1
7	9	9	7	4	3	2	2	2	2	1	1	1	1	1
3	3	3	3	2	2	1	1	1	1	1	1	1	1	1

Reading light

- Eliminates reflected glare from reading material (over the shoulder illumination).
- No direct glare to patient or visitors. (7 footcandles maximum at head of bed. 15 footcandles maximum at foot of bed.)
- Controls light directly onto patients bed.
- No reading light spill-over to adjacent beds. (1 footcandle maximum at head of adjacent patient's bed.)

Footcandles on Beds (Horizontal)																	
Reading Light/On					Adjacent MD*4/Off												
3'	6"	2	2	2	2	2	1	1	1	1	1	1	1	1	1	6"	12"
		3	3	3	3	2	2	2	1	1	1	1	1	1	1		
		6	7	7	7	6	4	3	3	2	2	1	1	1	1		
		33	38	39	38	33	23	16	12	9	5	3	2	2	2		
		30	38	38	38	30	23	15	12	8	6	3	2	2	2		
		14	15	15	15	14	11	9	7	5	4	2	2	2	2		
		5	5	5	5	5	5	4	4	2	2	1	1	1	1		

Options & accessories

Electronic (low voltage) sequential switch:

Switch factory mounted in luminaire for ambient and reading light convenience (controlled by pillow switch, by others). Suffix: **SW**.

Nurse night light: 120V medium base, narrow spot, 50W PAR 20 reflector lamp included with specular anodized mirror, field adjustable to right or left side of patients bed. Suffix: **NL**. The LED Night Light 120V, 3W, cool white LED (50,000 hours life - supplied with fixture). Suffix: **LD**

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).

Tamper proof: Order Germ Shield.

Germ shield: Order Cat. no., **MD4CLGS22** (2x2). Germshield can only be used with recessed **MD*2**.

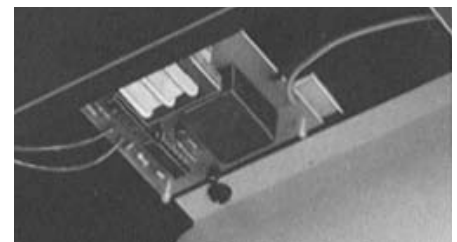
Ordering information

Type	Lamps qty-type	Ballast type	Grid ceiling
MD*2 2x2			
Ambient and Reading Light	2-TT5	40W Electronic	MD2G2SB

Example

MD2G2SB	120	SW		A
MD*2 Multi-function Patient Luminaire	Voltage 120 = 120V 277 = 277V	Options SW= Electronic Sequential Switch	Options LD = 3W LED Nurses Night Light	Options See page 4.139

Sequential switch (SW)





MD* Coffered 2' x 4'

Multi-function patient room luminaire (ambient/reading/examination/nurse's night light)

MD* Coffered combines all of the lighting functions in a patient's room in a single luminaire that is ceiling mounted to permit clean headwalls. This enables architects and interior designers to create a more home like environment and moves the light luminaire off the wall, a location where it can be damaged easily or interfere with medical equipment. MD*Coffered is more efficient and more economical than all other patient lighting systems.

Features

- 2 x 4 Unit has four lighting functions with integral ambient, reading, examination and optional nurse's night light.
- Specular aluminum reflectors for precise light control and glare free patient environment.
- Installs as a one-piece unit. Recessed or surface mounted to ceiling against wall directly behind patient.
- Eliminates damage to luminaire from hospital equipment attached to patient bed.
- Top wiring access plate is standard.
- All TTS type lamps (not included) are accessible for relamping without tools. All lamps are enclosed.
- Rugged 20 gauge steel housing.
- Optional low voltage (1-3 volts) electronic sequential switch mounted in luminaire for ambient and reading light controlled with pillow switch (by others).
- Examination Light in 2 x 4 has 36 cell flat white baked enamel louver with pattern 12 lens overlay.
- Perforated mesh shield for ambient / reading section.

Options & accessories

277V: Change 120 to 277 (e.g. MDCGWSVA2SB4SB120, changes to MDCGWSVA2SB4SB277).

Electronic (low voltage) sequential switch:

Switch factory mounted in luminaire for ambient and reading light convenience (controlled by pillow switch, by others). Suffix: **SW**.

9/7 Watt night light: Suffix: **PL** (Lamp not included).

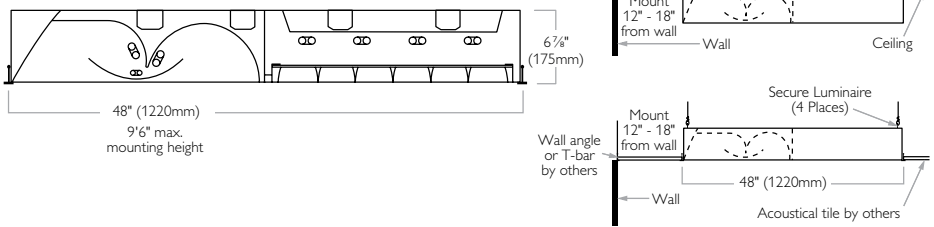
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).

Tamper proof: Order Germ Shield.

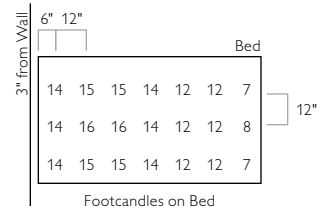
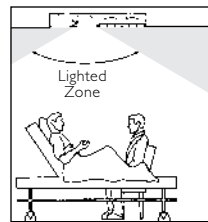
Germ shield: Order Cat. no., **MD4CLGS24** (2x4). Germshield can only be used with recessed **MD* Coffered**.

MD*Coffered 2' x 4'



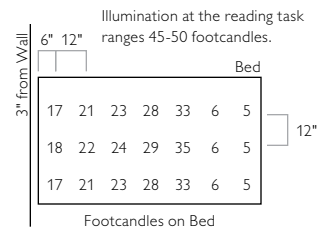
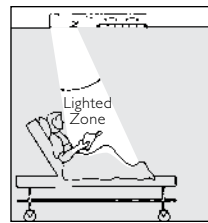
Ambient light

- Indirect illumination from TTS shielded by perforated mesh shield with white acrylic overlay.
- No direct glare to patient.
- No direct glare to patients visitor.
- No direct glare to adjacent patients.



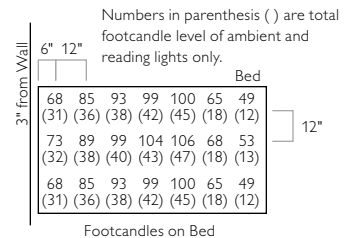
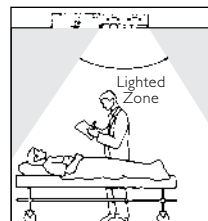
Reading light

- Eliminates reflected glare from reading material (over shoulder illumination).
- No direct glare to patient or visitors.
- Controls light directly onto patient's bed.



Examination light

- Excellent color rendition. Wired for independent switching (1 or 2 circuit).
- Optional louver or lens frame.
- Concealed hinging and latching.

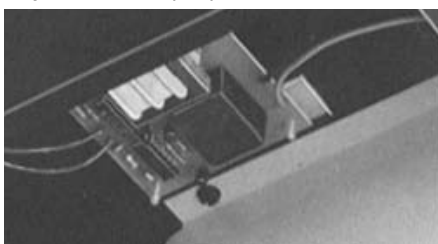


Ordering information

Type	Cells	Examination light shielding	Lamps qty-type*	Ballast type	Grid ceiling
MD* Coffered 2x4					
Ambient, Reading and Examination Light	36	White Louver with Prismatic Overlay	6-TT5 5-TT5	40W Electronic	MDCGWSVA2SB4SB MDCGWSVA2SB3SB

* Include 2-TT5 for ambient / reading section.

Sequential switch (SW)



Example	MDCGWSVA2SB4SB	120	SW	PL	A
	MD* Coffered 2x4	Voltage	Options	Options	Options
	Multi-function Examination Luminaire	120 = 120V 277 = 277V	SW = Electronic Sequential Switch	PL = Nurses Night Light	See page 4.140

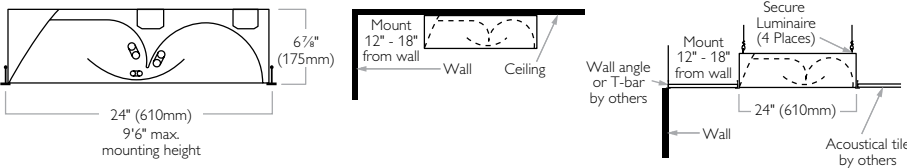
MD* Coffe 2' x 2'

Multi-function patient room luminaire (ambient/reading/nurse's night light)

MD* Coffe combines all of the lighting functions in a patient's room in a single luminaire that is ceiling mounted to permit clean headwalls. This enables architects and interior designers to create a more home like environment and moves the light luminaire off the wall, a location where it can be damaged easily or interfere with medical equipment. MD*Coffe is more efficient and more economical than all other patient lighting systems.



MD*Coffe 2' x 2'

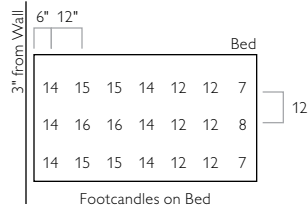
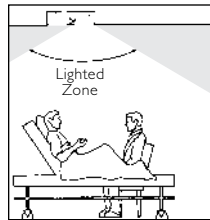


Features

- 2 x 2 Unit has three lighting functions with integral ambient, reading, and optional nurse's night light with perforated mesh shield.
- Specular aluminum reflectors for precise light control and glare free patient environment.
- Installs as a one-piece unit. Recessed or surface mounted to ceiling against wall directly behind patient.
- Eliminates damage to luminaire from hospital equipment attached to patient bed.
- Top wiring access plate is standard.
- All TTS type lamps (not included) are accessible for relamping without tools. All lamps are enclosed.
- Rugged 20 gauge steel housing.
- Optional low voltage (1-3 volts) electronic sequential switch mounted in luminaire for ambient and reading light controlled with pillow switch (by others).
- Perforated mesh shield for ambient / reading section.

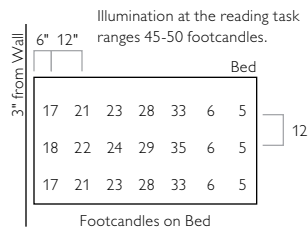
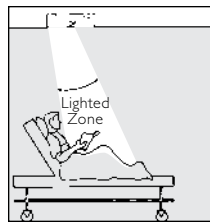
Ambient light

- Indirect illumination from TTS shielded by perforated mesh shield with white acrylic overlay.
- No direct glare to patient.
- No direct glare to patients visitor.
- No direct glare to adjacent patients.



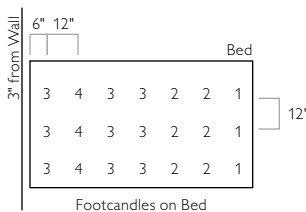
Reading light

- Eliminates reflected glare from reading material (over shoulder illumination).
- No direct glare to patient or visitors.
- Controls light directly onto patient's bed.



Night light (optional)

- Indirect 9 or 7 watt PL lamp shielded by perforated mesh with internal white acrylic overlay.
- No glare to any patient.
- Wired for independent switching.



Ordering information

Type	Lamps qty-type*	Ballast type	Grid ceiling
MD* Coffe 2x2 Ambient, Reading	2-TT5	40W Electronic	MDCG2SB

Example	MDCG2SB	120	SW	PL	A
	MD* Coffe 2x2 Multi-function Patient Luminaire	Voltage 120 = 120V 277 = 277V	Options SW= Electronic Sequential Switch	Options NL = Nurses Night Light	Options See page 4.141

Options & accessories

277V: Change 120 to 277 (e.g. MDCGWSVA2SB4SB120, changes to MDCGWSVA2SB4SB277).

Electronic (low voltage) sequential switch:

Switch factory mounted in luminaire for ambient and reading light convenience (controlled by pillow switch, by others). Suffix: **SW**.

9/7 Watt night light: Suffix: **PL** (Lamp not included).

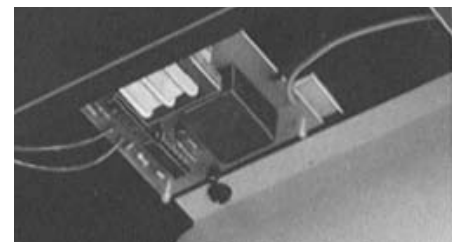
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).

Tamper proof: Order Germ Shield.

Germ shield: Order Cat. no., **MD4CLGS22** (2x2). Germshield can only be used with recessed **MD* Coffe**.

Sequential switch (SW)





MD*A 6" x 48"

Recessed fluorescent multi-function patient luminaire asymmetric examination and ambient lighting

With the ever-increasing amounts of medical equipment needing headwall space and an overall desire to create a comforting, home-like environment, the Philips Lightolier MD*A meets these challenges.

The Philips Lightolier MD*A offers three integral lighting functions: ambient light, examination light and an optional wall switch controlled night light. The ambient light provides a soft level of light that is perfect for general illumination. The examination light produces shadow-free illumination over the entire bed. When these two modes are switched on simultaneously, very high light levels are achieved, up to 120 footcandles.

Ideally installed in opposing pairs over the bed. The Philips Lightolier MD*A can be ordered as two individual luminaires for wall switch operation. Or as Master and Satellite luminaires utilizing our optional sequential switch, giving the patient the ability to control the aforementioned functions from a pillow switch.



Ordering information

Explanation of **Individual MD*A** luminaire Catalog number: Example: **MDA6G254117120PGP2**

MD*Asymmetric	Fixture width	Ceiling type	Exam lamp	Ambient lamp	Voltage	Exam ballast	Ambient ballast
MDA	6	G	254	117	120	PG	P2

Explanation of **Master MD*A** luminaire Catalog number with sequential switch. Example: **MDA6G254117120PGP2-SW**

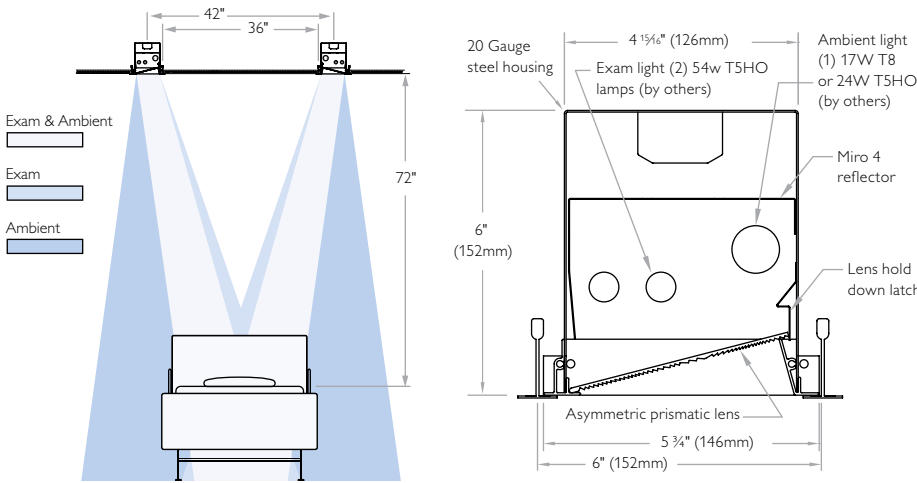
MD*Asymmetric	Fixture width	Ceiling type	Exam lamp	Ambient lamp	Voltage	Exam ballast	Ambient ballast	Sequence switch
MDA	6	G	254	117	120	PG	P2	SW

Explanation of **Satellite MD*A** luminaire Catalog number with sequential switch. Example: **MDA6G254117120PGXX-SW**

MD*Asymmetric	Fixture width	Ceiling type	Exam lamp	Ambient lamp	Voltage	Exam ballast	Ambient ballast	Satellite	Sequence switch
MDA	6	G	254	117	120	PG	P2	XX	SW

MD*A 6" x 48"

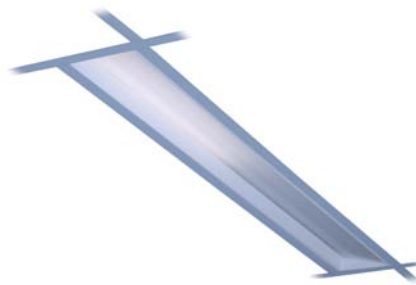
Recessed fluorescent multi-function patient luminaire asymmetric examination and ambient lighting



Ambient light

Indirect illumination from either two 17W T8 or two 24 watt T5HO two foot lamps.

- No direct glare to patient.
- No direct glare to patient's visitor.
- Low level of illumination comfortable for visitors or viewing television.



7	8	8
9	10	10
10	11	10
10	10	9
8	8	7

Two 17W T8 Lamps footcandle levels*

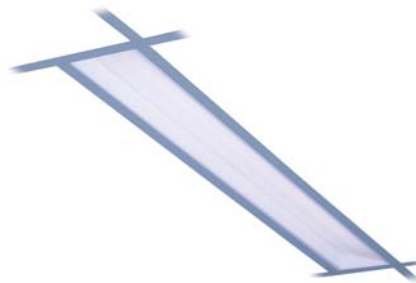
10	11	12
13	15	15
15	16	15
15	15	13
12	11	10

Two 24W T5HO Lamps footcandle levels*

Examination light

Excellent color rendition given by four 54 watt T5HO lamps.

- Wired for tandem switching.



79	84	79
100	106	99
106	114	106
99	106	100
79	84	79

Four 54W T5HO Lamps footcandle levels*

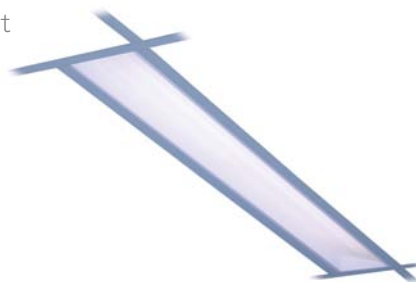
79	84	79
100	106	99
106	114	106
99	106	100
79	84	79

Four 54W T5HO Lamps footcandle levels*

Ambient and examination light

Full light level output.

- Lens encloses lamps within luminaire.



82	89	80
101	108	101
108	117	108
101	108	101
80	88	82

Two 17W T8 Lamps and Four 54 Watt T5HO Lamps, footcandle levels*

85	92	86
104	111	106
111	120	111
106	110	104
86	92	85

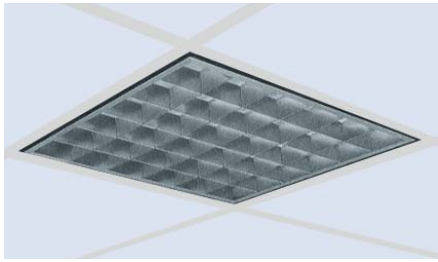
Two 24W T5HO Lamps and Four 54 Watt T5HO Lamps, footcandle levels*

Optional 3 watt LED night light

Only available in the Individual or Satellite luminaire. Suffix: **NL**.



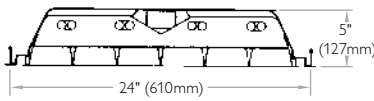
*Footcandle levels based on an opposing pair of MD*A luminaires.



MD*4 2' x 2'

Recessed 36 cell with prismatic overlay examination luminaire

MDS2G36PS4FT120SB



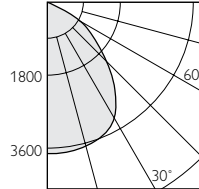
Reference data

Efficiency	55.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	132.0W
Luminaire Eff. (LER)	31.3

Candlepower Curve



Initial Footcandles on Bed

1 Fixture			WALL	2 Fixture		
12"	12"	12"		12"	12"	12"
52.5	54.8	52.7		106	111	107
63.9	66.8	64.1		119	125	120
74.5	78.0	74.7		128	134	129
77.9	81.6	78.1		133	139	133
75.6	79.1	75.8		132	138	133
68.6	71.8	68.8		123	129	123
57.6	60.3	57.9		109	114	110

Features

- 2 units provide 123 average footcandles on patients bed when installed over each end of bed.
- Utilizes 2-2 lamp electronic ballast.
- Utilizes 4-40 watt Biax type lamps with excellent color rendition (82 CRI).
- 3 1/2" x 3 1/2" cell size.
- Door jamb with integral positive light stop.
- Spring-loaded latches.
- Integral earthquake clip.

Options & accessories page 4.130

Ballast: Electronic 120 volt standard. For 277 volt, change 120 to 277 (e.g. **MDS2G36PS4FT277SB**).

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Radio interference filter: Suffix: **R**. 120 or 277 volt at 50 or 60Hz. One per fixture standard.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Note: For concealed spline, plaster or drywall ceiling, use "G" type fixtures with either: **S2X2F** KIT, or Drywall kit, **FK92X2**.

Ordering information

Type	Cells	Examination light shielding	T-Grid	Slot-T or Concealed-T
MD*4 2x2 Recessed Examination Light	36	Low iridescence specular louver w/prismatic overlay	MDS2G36PS4FT120SB	MDS2T36PS4FT120SB
	36	Low iridescence semi-specular louver w/prismatic overlay	MDS2G36LS4FT120SB	MDS2T36LS4FT120SB

Example

MDS2G36PS4FT	120	SB	A
Examination Light Direct/indirect recessed	Voltage 120 = 120V 277 = 277V	Ballast See page 4.144	Options See page 4.144 and page 4.130



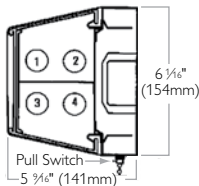
OBL series

Over-bed, wall mounted luminaire

OBL Over-bed light

Features

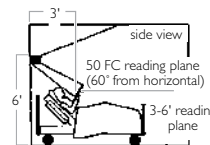
- For nursing homes, hospitals and other health care facilities.
- Separate lamp compartments for controlled uplight and downlight.
- Four-way pull switch, standard (120 volt only).
- .125 thick DR acrylic linear prismatic refractor. (impact resistant).
- Flat white fascia standard.
- Cold rolled steel body with die-cast aluminum ends.
- Concealed pull-action spring-loaded latches to retain lens.
- Optional oak fascia insert.
- Optional low voltage electronic sequential switch for push button control of up/down lighting. UL 544 listed. Includes phone jack type receptacle.



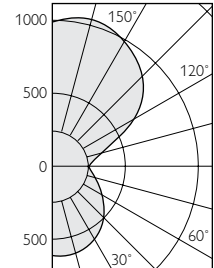
Switching

- 4 Lamps = 1, 2, 3, 4
- 3 Lamps = 1, 2, 4
- 2 Lamps = 2, 4

Reading Position



Candlepower Curve



Ordering information

Lamp Configuration	Size	Lamp qty-type	Catalog no.
2 Up/1 Down		3-T8	OBL332
2 Up/2 Down	48"	4-T8	OBL432
1 Up/1 Down		2-T8	OBL232

Example

OBL332	120	SO	R
Over-Bed Wall Mounted Direct/indirect recessed	Voltage 120 = 120V 277 = 277V	Ballast See page 4.144	Options See page 4.144 and page 4.216

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **277SO**.

Ballast type	<10THD	<20THD
T8	HI	PS

Optional fascia insert: Oak—to order substitute **K** for **L** in Catalog no. (e.g. **OBL332** to **OBK332**).

Momentary button cordset: Traditional "Winged" Pendant Design ESD protection to 15000 volts. Heavy duty 7" cable. Consult factory.

Nite light: Consult factory.

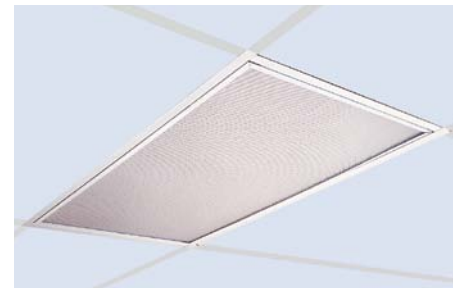
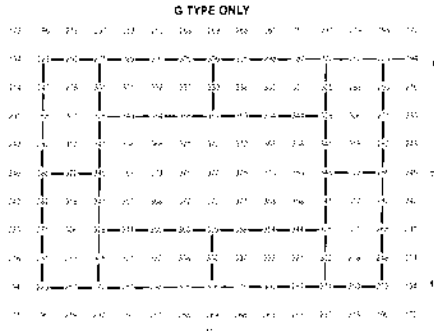
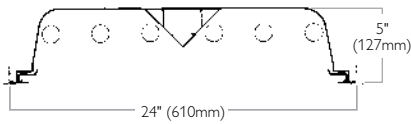
Radio interference filter: Suffix: **R**. 120 or 277 volt at 50 or 60Hz.

Electronic (low voltage) sequential switch: Switch factory mounted in fixture for Up and Down Light Operation from pillow switch, UL544 listed. Includes phone jack type receptacle. Consult factory. (120V or 277V).

SUS 432/632

Over-bed, wall mounted luminaire

SUS2GFSMA632UNVH6



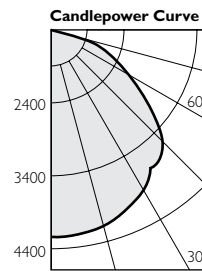
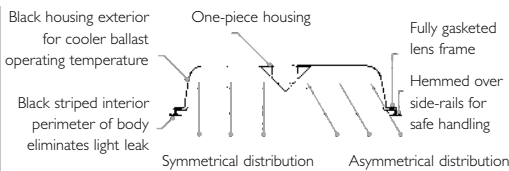
Features

- Asymmetric/symmetric distribution provides: Supplemental illumination to operating tables.
- Minimizes contrast between surgical and surrounding areas.
- Meets government specification for Radio Frequency Interference (RFI), MIL-STD 461-A, MIL-STD 463.
- One radio suppressor per fixture (standard).
- High efficiency 60.9% (6 light), 61.2% (4 light).
- One-piece housing.
- Built-in earthquake clips.
- Flat full-size steel lens frame is gasketed.
- 2 1/4" lamp to integral light stop for easy lamp removal.
- Black housing exterior for cooler ballast operating temperature.
- Hemmed over side rails for safety.

Ordering information

Lamp qty-type	Exposed T-Grid	Flanged for dry or plaster
6-T8	SUS2GFSMA632	SUS2FFSMA632

The footcandle readings of a typical 8' x 12' pattern layout of 8, 6 lamp units, illustrates that the asymmetric distribution adds 35% more light to the operating area (room size 12' x 16' x 9' ceiling).



Example

SUS2GFSMA632

SUS 632
Surgical Perimeter
Static Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

H6

Ballast
See page 4.145

A

Options
See page 4.145
and page 4.130

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **277SO**.

Ballast type	<10THD	<20THD
2 - 2 Lamp Elec. T8	SO*	H1*
3 - 2 Lamp Elec. T8	SO*	H1*
1 - 4 Lamp Elec. T8	O4*	H4*
2 - 3 Lamp Elec. T8	O6*	H6*
LOL Dimming T8	PS	

* Instant start Standard.

Continuous row installation: For "F" type fixtures, half-width flanges are required between fixtures. Catalog no. **2FC Trim** (each joint).

Plaster frames: "F" type fixtures do not include plaster frames. For individual or continuous mounting, specify **PF24** universal frame per fixture.

Electrical/wiring: Options consult factory.

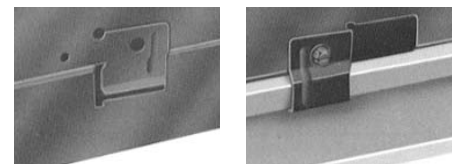
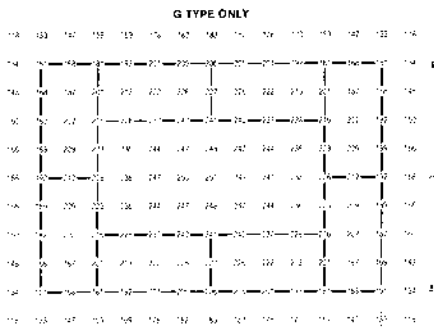
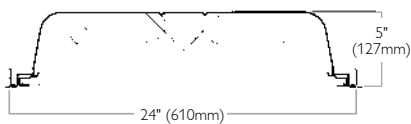
Seismic hold-down clips: For "G" type troffers. Suffix: 4HD (for NYC only).

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Radio interference filter: Suffix: **R**. If one per ballast is required. 120 or 277 volt at 50 or 60Hz.

Note: Only one radio interference filter (RF) for fixture if 3 ballasts are used.

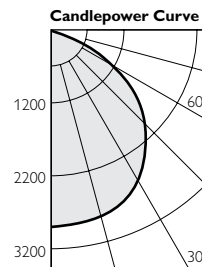
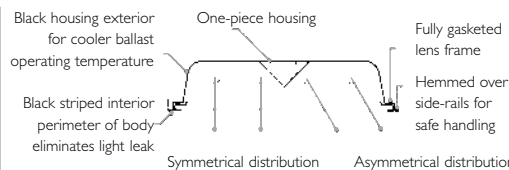
SUS2GFSMA432UNVH4



Built-in Earthquake Clip before installation

Earthquake Clip installed (lay-in grid)

The footcandle readings of a typical 8' x 12' pattern layout of 8, 4 lamp units, illustrates that the asymmetric distribution adds 35% more light to the operating area (room size 12' x 16' x 9' ceiling).



Example

SUS2GFSMA432

SUS 432
Surgical Perimeter
Static Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

H4

Ballast
See page 4.145

A

Options
See page 4.145
and page 4.130

Architectural & surface utility

Surface mounted luminaires are most often used in situations where it is not feasible to install recessed lighting: where there is no suspended ceiling, where there are obstructions above the ceiling, or where it is costly and troublesome to penetrate but surface-mounted luminaires are also extensively used because they serve as elements of distinctive style, providing an identity or signature; they add character to a space. Because a surface mounted fluorescent is subject to closer visual scrutiny than a recessed, standards of detailing craftsmanship are necessarily higher. The high quality of Philips Lightolier's production is seen in this product offering.





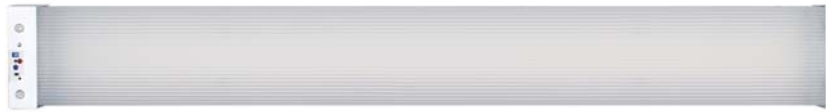
Contents

Stairwell	>	4.148	LWBU and LSW	>	4.160
Celebrity	>	4.150	Deepcel Surface	>	4.162
Belmont	>	4.153	Prismalyte Surface	>	4.163
Dorm Lyte	>	4.158	Vision Smart Surface	>	4.164
Dominaire Surface	>	4.159	SLB	>	4.165



Philips Lightolier stairwell luminaire

Wall/ceiling mounted fluorescent



Prismatic lens option

Conserving energy while maintaining safety.

Stairwell lighting typically operates continuously at full output despite very low, intermittent use. The solution to this unique application is bi-level lighting which maintains minimum illumination requirements when the stairwells are empty, thereby maximizing energy savings. Bi-level lighting incorporates a sensor integrated into the fixture that dims the lighting down to minimum standards, when no one is present. When the fixture detects someone in the area, the lighting is restored to full brightness. This can result in 50 to 80 percent energy savings per fixture.

The Philips Lightolier stairwell luminaire incorporates an internal motion sensor and a bi-level ballast. It provides a standby low-light level, and upon detection of motion in a space, immediately increases the lighting to full brightness. After occupancy is no longer detected, the fixture reverts back to the low, standby level. The automatic bi-level lighting control saves energy and ensures full light output when the space is occupied. The Philips Lightolier stairwell luminaire can be mounted on the wall or installed on a ceiling and is available in one or two lamp T8 and two lamp T5 linear fluorescent.

Philips Lightolier stairwell luminaire

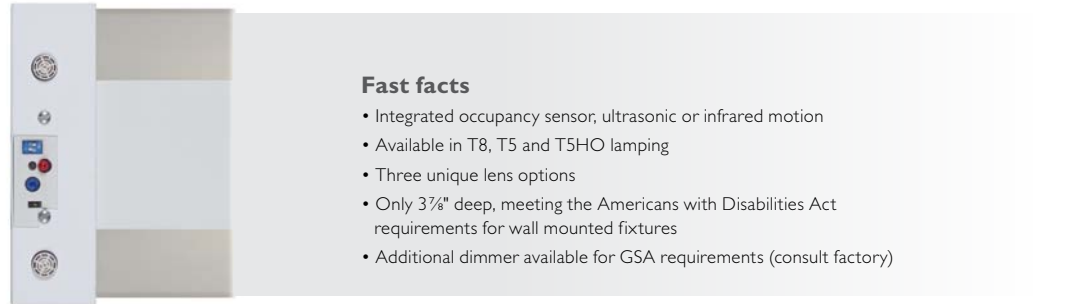
Ideal for	Stairwells, restrooms, laundry rooms and other areas where maximum light levels are not required on a constant basis.	
Lens options	<ul style="list-style-type: none"> • Unique composite, 1/8" thick DR (impact resistant) acrylic lens with a white opaque center and linear prisms to spread up/down light. • Classic 1/8" thick linear prismatic virgin acrylic lens that is low in brightness • A Linear prismatic lens of 50% DR (impact resistant) and 50% standard acrylic with a nominal thickness of 1/8" that will withstand 70 foot-pounds of impact without breaking. 	
Sensor options	Ultrasonic Occupancy Sensor <ul style="list-style-type: none"> • Ultrasonic technology (40Khz) Ultrasonic detection operates by transmitting sound waves throughout an area and measuring the speed at which they return. 	Infrared Occupancy Sensor <ul style="list-style-type: none"> • Adjustable time delay from 30 seconds to 30 minutes. • Fixed sensitivity optimized for FS-LxW lens coverages. • RoHS compliant. • Light level daylighting feature from 10-120 fc.
Tamper proof option	Secondary endcaps, secured with Holt head screws, can be added to the luminaire for tamper proofing	
Example catalog	SF4C232UNVV2-US , two 32 watt T8 lamps, bi-level dimming ballast and integrated Ultrasonic sensor SF4C232UNVV2-OC , two 32 watt T8 lamps, bi-level dimming ballast and integrated Infrared sensor For complete listing of available fixtures and specification sheets search Stairwell at www.lightolier.com	

Philips Lightolier stairwell luminaire

Wall/ceiling mounted fluorescent



Lighting
in motion.



Fast facts

- Integrated occupancy sensor, ultrasonic or infrared motion
- Available in T8, T5 and T5HO lamping
- Three unique lens options
- Only 3 7/8" deep, meeting the Americans with Disabilities Act requirements for wall mounted fixtures
- Additional dimmer available for GSA requirements (consult factory)

Ordering Information T5 or T5HO

SF	4	C	2	28	UNV	VY	—	US	--	--	-
Stairwell: Wall Mounted Fluorescent	Fixture Length: 4=48" (Nominal 48")	Lens Type: C =White Composite Acrylic Lens R = Linear Prismatic Virgin Acrylic Lens V = Vandal Proof – A High impact, 50% DR Acrylic Linear Prismatic Lens with Additional Secondary Vandal proof end-caps secured with holt head screws. (Factory Installed Only)	Lamp Quantity: 2=2 Lamp	Lamp Type: (By Others) 28=T5 28W 54=T5HO 54W (Nominal 48")	Voltage: ‡ 120, 277 or UNV = 120-277	Ballast Type: 2 Lamp 28W Elec.T5 100% / 50% Bi-level 2 Lamp 28W Elec.T5 2 Lamp 54W Elec.T5HO 100% / 50% Bi-level 2 Lamp 54W Elec.T5HO	<10THD VY (.95BF) PG †† NQ (.80BF) PG †† EQ ‡ MW ‡	Sensor Type: US=UltraSonic OC=Infrared	Options: DL=Optional GSA ballast low level controller.	Options: Emergency Pack (Consult Factory for applicable code)	Optional Fusing: A=Internal fast blowing =Internal slow blowing
<p>‡ Specific 120 or 277 voltage must be specified with use of a 0-10 volt dimming ballast. ††Program Rapid Start (UNV only)</p> <p>Note: UNV PG combination will result in lamps controlled by occupancy sensor in a ON or OFF capacity.</p> <p>Note: DL option requires the use of a 0-10 volt dimming ballast.</p> <p>Note: Consult local code authority for applications where Stairwell luminaire will be used as emergency lighting.</p>											

Ordering Information T8

SF	4	C	2	32	UNV	V2	—	US	--	--	-
Stairwell: Wall Mounted Fluorescent	Fixture Length: 2=24" 4=48"	Lens Type: C =White Composite Acrylic Lens R = Linear Prismatic Virgin Acrylic Lens V = Vandal Proof – A High impact, 50% DR Acrylic Linear Prismatic Lens with Additional Secondary Vandal proof end-caps secured with holt head screws. (Factory Installed Only)	Lamp Quantity: 1=1 Lamp 2=2 Lamps	Lamp Type: (By Others) 17=17W T8 (Nominal 24") 32=32W T8 (Nominal 48")	Voltage: ‡ 120, 277 or UNV=120-277 UN2 = 2, one lamp universal voltage ballasts (SF4 ONLY)	Ballast Type: 1 or 2 Lamp 17W or 32W Elec.T8 100% / 50% Bi-level 1 or 2 Lamp 17W or 32W Elec.T8	<10THD V2 P2* M7 ‡	Sensor Type: US=UltraSonic OC=Infrared	Options: DL=Optional GSA ballast low level controller.	Options: Emergency Pack (Consult Factory for applicable code)	Optional Fusing: A=Internal fast blowing =Internal slow blowing
<p>‡ Specific 120 or 277 voltage must be specified with use of a 0-10 volt dimming ballast. *Program Start Standard</p> <p>Note: UN2 P2 combination will result in one lamp always ON with second lamp controlled by occupancy sensor. UNV P2 combination will result in lamp/lamps controlled by occupancy sensor in a ON or OFF capacity.</p> <p>Note: DL option requires the use of a 0-10 volt dimming ballast.</p> <p>Note: Consult local code authority for applications where Stairwell luminaire will be used as emergency lighting.</p>											

Note: Stairwell luminaire also available in LED

Celebrity (CWBU) Universal



Wall mounted downlight luminaire

The ultimate in glare-free architectural lighting. A classic rectilinear wall fixture with a jewel-like diamond faceted injection molded refractor that mirrors out brightness at critical viewing angles. Ideal for nursing homes when used as a bed-light in the uplight/downlight configuration. It is also excellent when used over mirrors, in corridors and for task lighting in the downlight only configuration.

Features

- Universal luminaire that has uplight/downlight or downlight capabilities on the same fixture.
- Low brightness controlled downlighting and uplighting/downlighting.
- Injection-molded one-piece virgin acrylic downlight refractor (1 side, 2 ends and face).
- Catadioptric side and end wall design (downlight).
- Slim 3 1/16" depth.
- Nominal 2' and 4' lengths.
- 63% efficient T8 lamps uplight/downlight.
- 67.1% efficient T8 lamps uplight/downlight.
- Invisible steel latches align refractor to housing.
- Individual or continuous rows.
- For over mirror, over bed, corridor, stairwell and bulletin board applications.

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

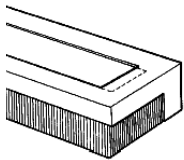
Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

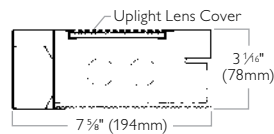
Radio interference filter: 120 or 277 volt, 50 or 60 Hz. One per fixture. Suffix: **R**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Uplight lens cover for downlight only

CWBU232UNVHI



Reference data

Efficiency	63.0%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	62.0W
--------------------	-------

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Downlight	7 3/8" x 25 1/2" 7 3/8" x 49 1/2"	2-T8	CWBU217 CWBU232

Example

CWBU232

CWBU
Wall Mounted
Downlight
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

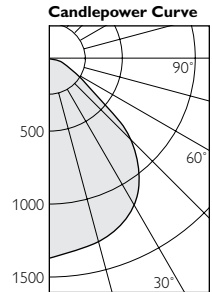
HI

Ballast
See page 4.150

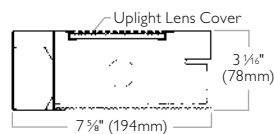
A

Options
See page 4.150
and page 4.216

2 Lamp Downlight



CWBU132UNVHI



Reference data

Efficiency	68.4%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	30.0W
--------------------	-------

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Downlight	7 3/8" x 25 1/2" 7 3/8" x 49 1/2"	1-T8	CWBU117 CWBU132

Example

CWBU132

CWBU
Wall Mounted
Downlight
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

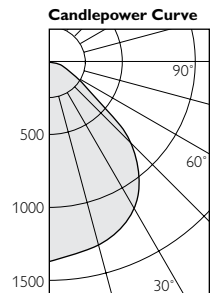
HI

Ballast
See page 4.150

A

Options
See page 4.150
and page 4.216

1 Lamp Downlight



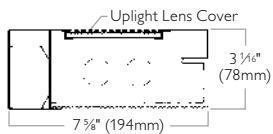
Celebrity (CWBU) Universal

Wall mounted uplight/downlight luminaire

The ultimate in glare-free architectural lighting. A classic rectilinear wall fixture with a jewel-like diamond faceted injection molded refractor that mirrors out brightness at critical viewing angles. Ideal for nursing homes when used as a bed-light in the uplight/downlight configuration. It is also excellent when used over mirrors, in corridors and for task lighting in the downlight only configuration.



CWBU232UNVHI



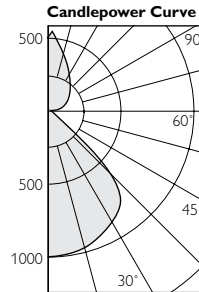
Reference data

Efficiency 67.1%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 62.0W

2 Lamp Uplight / Downlight



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Uplight / Downlight	7 7/8" x 25 1/2" 7 7/8" x 49 1/2"	2-T8	CWBU217 CWBU232

Example

CWBU232

CWBU
Wall Mounted
Uplight/Downlight
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.151

A

Options
See page 4.151
and page 4.216

Features

- Universal luminaire that has uplight/downlight or downlight capabilities on the same fixture.
- Low brightness controlled downlighting and uplighting/downlighting.
- Injection-molded one-piece virgin acrylic downlight refractor (1 side, 2 ends and face).
- Catadioptric side and end wall design (downlight).
- Slim 3 1/16" depth.
- Nominal 2' and 4' lengths.
- 63% efficient T8 lamps downlight.
- 67.1% efficient T8 lamps uplight/downlight.
- Invisible steel latches align refractor to housing.
- Individual or continuous rows.
- For over mirror, over bed, corridor, stairwell and bulletin board applications.

Options & accessories page 4.216

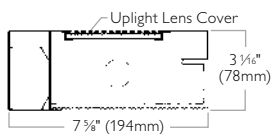
Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
LOL T8 Dimming	—	PS

* Instant start

** Program start

CWBU132UNVHI



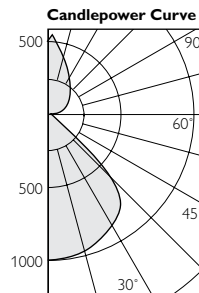
Reference data

Efficiency 69.8%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 30.0W

1 Lamp Uplight / Downlight



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Uplight /Downlight	7 7/8" x 25 1/2" 7 7/8" x 49 1/2"	1-T8	CWBU117 CWBU132

Example

CWBU132

CWBU
Wall Mounted
Uplight/Downlight
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.151

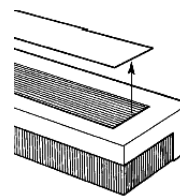
A

Options
See page 4.151
and page 4.216

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Radio interference filter: 120 or 277 volt, 50 or 60 Hz. One per fixture. Suffix: **R**.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



Uplight lens cover removed for uplight/downlight



Celebrity Surface

Surface

Features

- .187 lens thickness.
- Five side injection molded refractor with square base, conical prisms (absolutely no sag).
- Catadioptric side/end wall design, for low brightness.
- Tight aligning refractor fit.
- Invisible spring steel latches.
- Easy ballast accessibility.
- Rigid, reinforced housing.
- Individual or continuous row mounting.

Options & accessories [page 4.216](#)

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
1 - 2 Lamp Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

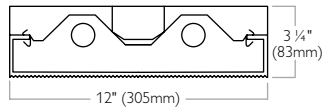
* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Not recommended for stem mounting.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CBS232UNVHI



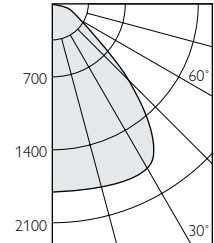
Reference data

Efficiency	78.2%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	59.1W
Luminaire Eff (LER)	66.2

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Catalog no.
Surface Prismatic	12" x 49 5/16"	2-T8	CBS232

Example

CBS232

Celebrity
Surface Wrap
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

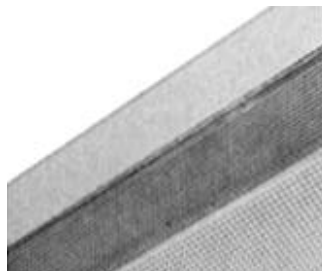
HI

Ballast
See page 4.152

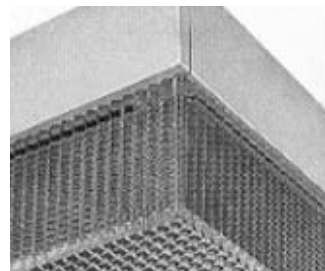
A

Options
See page 4.152
and page 4.216

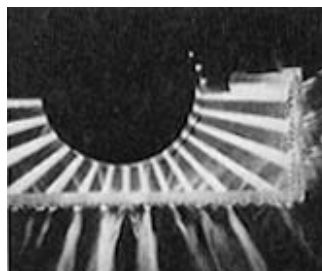
Specification Surface Lens CBS Unit Matches CWBU Celebrity Wall Unit



Sturdy steel chassis



Four sided injection molding



Photograph illustrates action of Celebrity lens enclosure. Catadioptric prisms "mirror" out glare, refract light beams into useful areas.

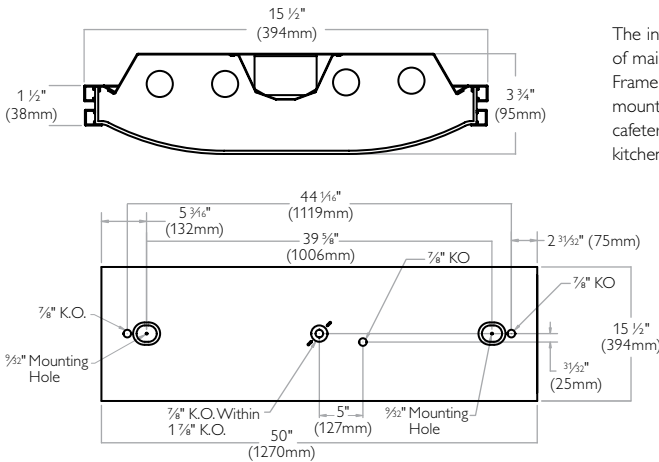
Belmont Spill Frame 2' x 4'

Architectural surface luminaire

Belmont Spill Frame features an extruded aluminum frame with a unique uninterrupted spill of light on all four sides with a soft-white, impact resistant acrylic lens. The step back chassis creates a floating frame effect with an apparent depth of only 1½ inches. The frame can be opened and/or hinged from either side without tools for easy lamp replacement.



Belmont Spill Frame



The intriguing appearance and ease of maintenance make Belmont Spill Frame the ideal choice for surface mounted lighting applications for cafeterias, corridors, small offices, kitchens or family rooms.

Features

- Excellent for lighting cafeterias, small offices, corridors, kitchens and family rooms.
- Unique rectangular double frame creates uninterrupted spill of light from all four sides.
- Extruded aluminum frame with mitered corners.
- 1/8" thick white acrylic lens containing 25% DR.
- Only 3-3/4" total depth.
- Step back housing for an apparent depth of 1-1/2".
- Lens opens and hinges from either side.
- Zip-clip flush mount on T-grid ceilings.
- Off-center 7/8" K.O. for flush mount to T-grid ceiling.

Ordering information

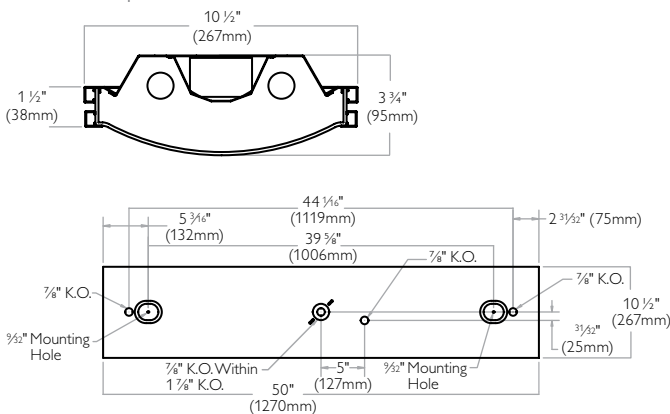
Type	Lamps qty-type	Electronic ballast	Finish	Shielding	Chassis
Belmont Spill Frame		2 - 2 Lamp	Black	BESF2X4	BE2B432UNVHI
Architectural	4-T8	2 - 2 Lamp	White	BESF2X4	BE2W432UNVHI
Surface Luminaire		1 - 4 Lamp	Black	BESF2X4	BE2B432UNVH4
		1 - 4 Lamp	White	BESF2X4	BE2W432UNVH4

Note: Chassis and shielding are packed in separate cartons. When ordering, enter as separate line items.

Belmont Spill Frame 1' x 4'

Architectural surface luminaire

Belmont Spill Frame



Ordering information

Type	Lamps qty-type	Electronic ballast	Finish	Shielding	Chassis
Belmont Spill Frame		1 - 2 Lamp	Black	BESF1X4	BE1B232UNVHI
Architectural	2-T8	1 - 2 Lamp	White	BESF1X4	BE1W232UNVHI
Surface Luminaire					

Note: Chassis and shielding are packed in separate cartons. When ordering, enter as separate line items.

Belmont Spill Frame 2' x 2'

Architectural surface luminaire

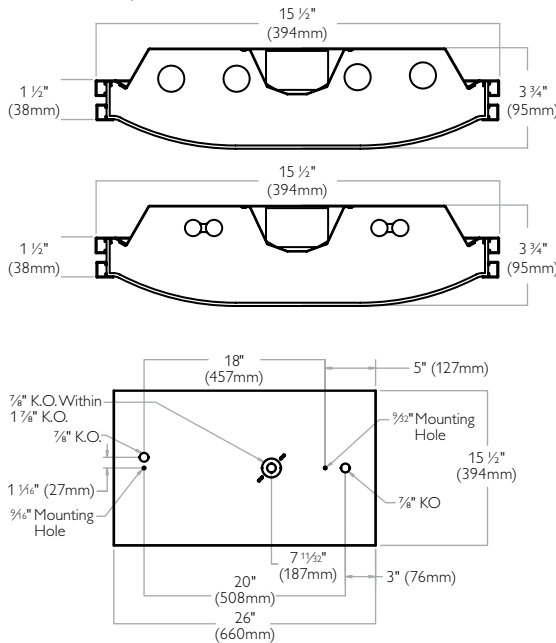
Belmont Spill Frame features an extruded aluminum frame with a unique uninterrupted spill of light on all four sides with a soft-white, impact resistant acrylic lens. The step back chassis creates a floating frame effect with an apparent depth of only 1½ inches. The frame can be opened and/or hinged from either side without tools for easy lamp replacement.

Features

- Excellent for lighting cafeterias, small offices, corridors, kitchens and family rooms.
- Unique rectangular double frame creates uninterrupted spill of light from all four sides.
- Extruded aluminum frame with mitered corners.
- 1/8" thick white acrylic lens containing 25% DR.
- Only 3-3/4" total depth.
- Step back housing for an apparent depth of 1-1/2".
- Lens opens and hinges from either side.
- Zip-clip flush mount on T-grid ceilings.
- Off-center 7/8" K.O. for flush mount to T-grid ceiling.



Belmont Spill Frame



The intriguing appearance and ease of maintenance make Belmont Spill Frame the ideal choice for surface mounted lighting applications for cafeterias, corridors, small offices, kitchens or family rooms.

Ordering information

Type	Lamps qty-type	Electronic ballast	Finish	Shielding	Chassis
Belmont	4-T8	2 - 2 Lamp	Black	BESF2X2	BE2B417UNVHI
Spill Frame	4-T8	2 - 2 Lamp	White	BESF2X2	BE2W417UNVHI
Architectural	4-T8	1 - 4 Lamp	Black	BESF2X2	BE2B417UNVH4
Surface Lum.	4-T8	1 - 4 Lamp	White	BESF2X2	BE2W417UNVH4
	2-TT5 40W	1 - 2 Lamp	Black	BESF2X2	BE2B2FTUNVIB
	2-TT5 40W	1 - 2 Lamp	White	BESF2X2	BE2W2FTUNVIB

Note: Chassis and shielding are packed in separate cartons. When ordering, enter as separate line items.



Belmont I & II 2' x 4' & 1' x 4'

Linear fluorescent utility luminaire

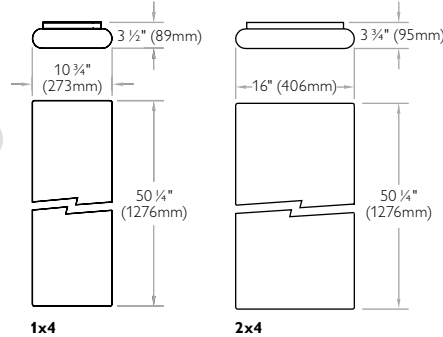
Ideally suited to circulation, utility, and workspaces, these shallow, sleek lightforms are available in the more efficient T8 Electronic lamp-ballast systems.



Belmont I

Wrap-around acrylic diffuser with end caps attached. Complete luminaire consists of Lightshield and Chassis. Specify and order each item separately.

Not suitable for row mounting.



Application data for surface mounted

Style	Multiple Fixtures	Single Fixture
Lamp	Fixture Spacing, O.C.	F.C.* 12 x 12' Room
Belmont I	6' 8' 10'	78 28 15
	(2) 40WT12	
	(2) 32WT8: F.C. x 0.9	
Belmont II	8' 10' 12'	96 61 22
	(4) 40WT12	
	(4) 32WT8: F.C. x 0.9	

Ordering information

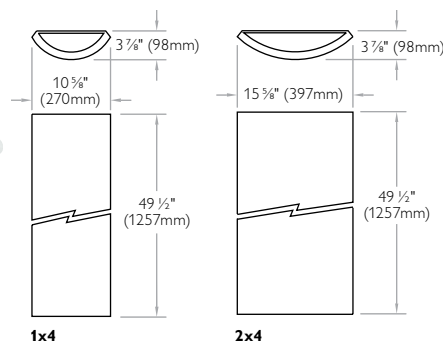
Type	Size	Lamps qty-type	Wattage	Electronic ballast	Finish	Chassis	Lightshield (Order separately)
Belmont I	1' x 4'	2-T8	32W	UNV	Black	BE1B232UNVHI	10324
	1' x 4'	2-T8			White	BE1W232UNVHI	10324
Utility Luminaire	2' x 4'	4-T8	32W	UNV	Black	BE2B432UNVHI	10328
	2' x 4'	4-T8			White	BE2W432UNVHI	10328

For products that require 1-4 light ballast add suffix **H4**.
Example: **BE2B432UNVH4**

Belmont II

Linear acrylic arc with no visible trim. Complete luminaire consists of Lightshield and Chassis. Specify and order each item separately.

Not suitable for row mounting.



Ordering information

Type	Size	Lamps qty-type	Wattage	Electronic ballast	Finish	Chassis	Lightshield (Order separately)
Belmont II	1' x 4'	2-T8	32W	UNV	Black	BE1B232UNVHI	10326
	1' x 4'	2-T8			White	BE1W232UNVHI	10326
Utility Luminaire	2' x 4'	4-T8	32W	UNV	Black	BE2B432UNVHI	10330
	2' x 4'	4-T8			White	BE2W432UNVHI	10330

For products that require 1-4 light ballast add suffix **H4**.
Example: **BE2B432UNVH4**

* Footcandle values of illumination are initial and average and are at a height of 30" above the floor. They are shown for rooms with ceiling heights ranging from 8' to 12'.

Room finishes are typical: white ceiling (80% refl.), Light Walls (50% refl.) and dark floor (20% refl.).

All units are: cULus listed, suitable for damp locations.



Belmont Cloud 2' x 4' & 1' x 4'

Linear fluorescent utility luminaire

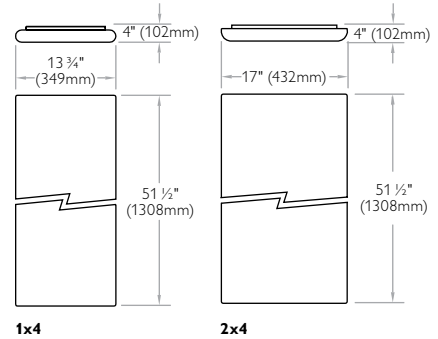
Ideally suited to circulation, utility, and workspaces, these shallow, sleek lightforms are available in the more efficient T8 Electronic lamp-ballast systems.

Belmont Cloud

All units are: cULus listed, suitable for damp locations.

Acrylic diffuser with softly contoured edges. Complete luminaire consists of Lightshield and Chassis. Specify and order each item separately.

Not suitable for row mounting.



Ordering information

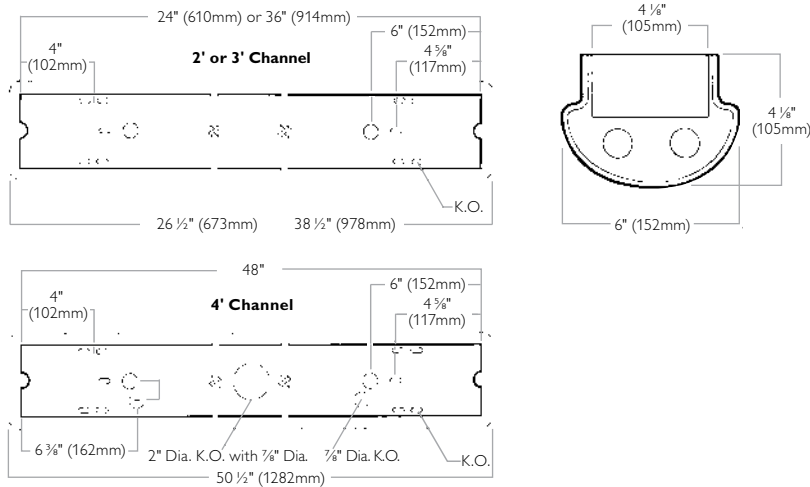
Type	Size	Lamps qty-type	Wattage	Electronic ballast	Finish	Chassis	Lightshield (Order separately)
Belmont Cloud	1' x 4'	2-T8	32W	UNV	Black	BE1B232UNVHI	10325
	1' x 4'	2-T8			White		
Utility Luminaire	2' x 4'	4-T8	32W	UNV	Black	BE2B432UNVHI	10327
	2' x 4'	4-T8			White		

For products that require 1-4 light ballast add suffix **H4**.
Example: **BE2B432UNVH4**

Belmont 6" Cloud & Vanity Light

Architectural surface

Belmont 6" Cloud



Features

- 6" white opal acrylic lens (vacuum formed).
- Can be horizontally or vertically wall mounted.
- Can be ceiling mounted.
- Efficiency 69.0%.
- Lens secured to body with screws at ends.
- Quarter turn latch secures channel cover for easy wireway access.
- Heavy duty channel of code gauge die formed steel.
- Fully enclosed wiring.
- UL Listed snap-on end caps (body).
- Green grounding screw installed in channel.

Options & accessories

Ballast type	<10THD	<20THD
Electronic T8	HI	–

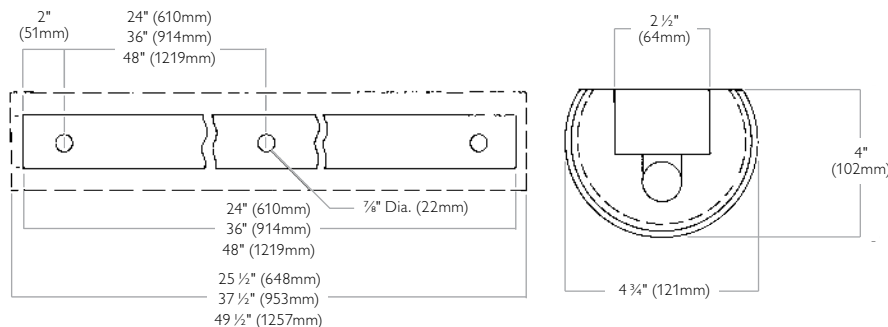
Ordering information

When ordering, enter as separate line items.

Type	Size	Lamps qty–type	Voltage	Chassis	Shielding
Belmont	6" x 24"			SW2S217HPFUNVHI	BCW6X24
6" Cloud	6" x 36"	2-T8	UNV (120-277V)	SW2S225HPFUNVHI	BCW6X36
Utility Luminaire	6" x 48"			SW2S232HPFUNVHI	BCW6X48

Note: Chassis and shielding are packed in separate cartons. Chassis and shielding shown are stock items.

Vanity Light



Features

- Can be horizontally or vertically mounted.
- 4 3/4" diameters opal white acrylic lens.
- Positive stainless steel lens retainers.
- Permanently installed milk white opaque diffuser ends with decorative trim.
- Efficiency 76.6% (T8).
- Quarter turn latch secures channel cover for easy wireway access.
- Heavy duty channel of code gauge die formed steel.
- Fully enclosed wireway.
- UL Listed snap-on end caps (body).
- Green grounding screw installed in channel.

Options & accessories

Ballast type	<10THD	<20THD
Electronic T8	HI	–

Ordering information

When ordering, enter as separate line items.

Type	Size	Lamps qty–type	Voltage	Chassis	Shielding
Vanity Light	4 3/4" x 24"			SN2S117HPFUNVHI	VLW4X24
Utility Luminaire	4 3/4" x 36"	1-T8	UNV (120-277V)	SN2S125HPFUNVHI	VLW4X36
	4 3/4" x 48"			SN2S132HPFUNVHI	VLW4X48

Note: Chassis and shielding are packed in separate cartons. Chassis and shielding shown are stock items.



Dorm Lyte

Wall mounted fluorescent luminaire

Dorm Lyte

Features

- For dorms, nursing homes, assisted living, health care facilities, or other over bed or wall mounted applications.
- Up and downlight, 1 or 2 lamp.
- Separate lamp compartments for controlled uplight and downlight for 2 lamp models.
- 1/8" thick DR acrylic lens. Unique co-extension. White opaque center. Frosted white front sections for subtle glow. Linear prisms to spread up/downlight.
- Only 3-7/8" deep, meets American With Disabilities Act for wall mounted fixtures.
- Concealed pull-action spring-loaded latches to retain lens.
- 20 gauge cold rolled steel post painted baked white enamel end caps.
- Nominal 4' length.
- Four-way pull switch, (120 volt only) optional.
- Optional low voltage electronic sequential switch for push button control of up/down lighting. UL 544 listed. Includes phone jack type receptacle.

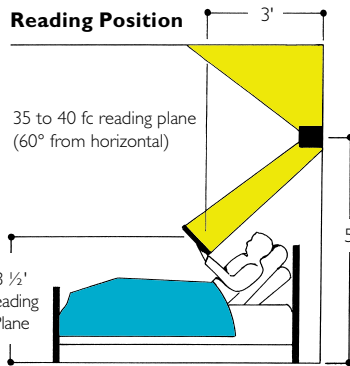


Options & accessories page 4.216

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
Electronic T5 P.S. (28W or 54W)	PG	-

* Instant start

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

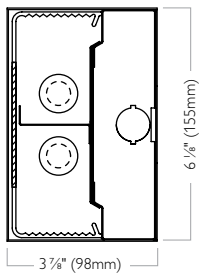


Reference data

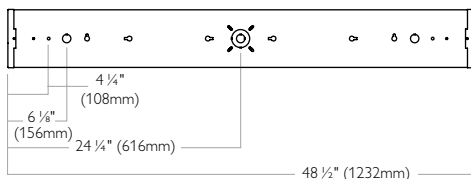
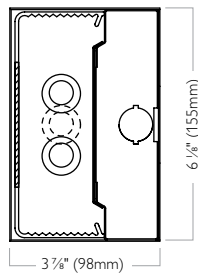
Room Size: 12' x 10' x 8' Ceiling.
Reflection: 80-50-20.80LLF
Reading Area: 35-40fc

1'	15	35	52	35	15
3'	15	25	31	35	15
5'	12	14	16	14	12
7'	9	10	10	10	9
9'	8	8	8	8	7
11'	7	7	7	7	7
	1'	3'	5'	7'	9'

Independent Up/Down Light 2 T5 or T8 Lamps



Up/Down Light 1 or 2 T5 or T8 Lamps



Ordering information

Type	Size	Lamps qty-type	Wattage	Catalog number
Up/Down Light	48"	1-T5	28W	DM4X128
		1-T8	32W	DM4X132
		1-T5HO	54W	DM4X154
		2-T5	28W	DM4X228
		2-T8	32W	DM4X232
		2-T5HO	54W	DM4X254
Independent Up or Down Light	48"	2-T5	28W	DM4R228
		2-T8	32W	DM4R232
		2-T5HO	54W	DM4R254

Example **DM4X232**
Dorm Lyte
Wall Mounted
Fluorescent

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 or T5 Ballast)

HI
Ballast
See page 4.158

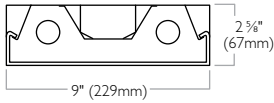
A
Options
See page 4.158
and page 4.216

Dominaire Surface

Surface



WA4A232UNVHI



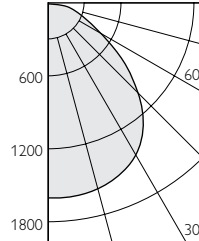
Reference data

Efficiency	70.9%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	63.0W
Luminaire Eff (LER)	56.5

Candlepower Curve



Features

- Step back housing for an apparent depth of 1 1/2".
- Prismatic virgin acrylic lens.
- Luminous catadioptric end caps.
- Two side shelf-leveling lens hinging.
- 9" wide, 4' nominal lengths.
- 14" wide, 4' nominal length.
- Zip-clip flush mount on T-grid ceilings.
- Off-center 7/8" K.O. for flush mount to T-grid ceiling.
- Optional UL-listed low density mounting spacers.
- Completely assembled with setup ends to lamp holders.

Ordering information

Type	Size	Lamp qty–type	Catalog no.
Prismatic Luminaire	9" x 49 1/16"	2-T8	WA4A232

Example

WA4A232

Dominaire
Surface Wrap
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.159

A

Options
See page 4.159
and page 4.216

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 2 Lamp Electronic TT5 (40W)	SB* , PR**	IB*
1 - 3 Lamp Electronic T8	H3* , P3**	O3*
1 - 4 Lamp Electronic T8	H4* , P4**	O4*
LOL T8 Dimming	–	PS

* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

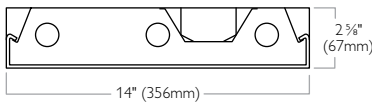
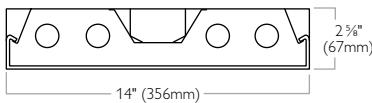
Canopy spacer: Suspends fixture 1 1/2" from surface. Order Catalog no. **AC1 CSP**.

Stem and canopy sets: Suspend fixture 6", 12", 18" or 24" from surface. (Four per fixture is recommended.) Catalog no.: **ASC6 CSP** (6"); **ASC12 CSP** (12"); **ASC18 CSP** (18"); **ASC24 CSP** (24").

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Stems not available with 3 lamp unit.

WB4B432UNVH4



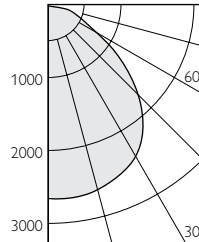
Reference data

Efficiency	70.1%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	84.4W
Luminaire Eff (LER)	71.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty–type	Catalog no.
Surface Prismatic Luminaire	14" x 48 3/4"	2-T8	WB4B232
	14" x 48 3/4"	3-T8	WB4B332
	14" x 48 3/4"	4-T8	WB4B432
	24" x 48 3/4"	4-T8	WB2B417
	24" x 48 3/4"	2-TT5-40	WB2B2FT

Example

WB4B432

Dominaire
Surface Wrap
Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

H4

Ballast
See page 4.159

A

Options
See page 4.159
and page 4.216

LWBU Universal

Wall mounted downlight or uplight/downlight



Features

- Universal luminaire that has uplight/downlight or downlight capabilities on the same fixture.
- Low brightness controlled downlighting and uplighting/downlighting.
- Low brightness linear prismatic virgin acrylic refractor.
- Invisible steel latches align refractor to housing.
- Individual or continuous rows.
- For over mirror, over bed, corridor, stairwell and bulletin board applications.

Options & accessories [page 4.216](#)

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

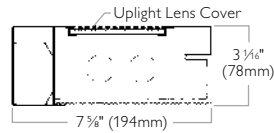
Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

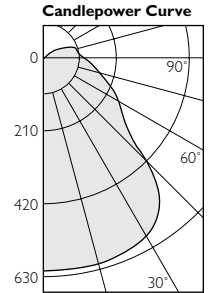
LWBU232UNVHI



Reference data

Efficiency	62.4%
Spacing ratio	1.2

1 & 2 Lamp Downlight

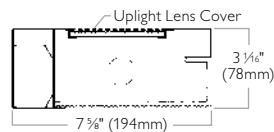


Ordering information

Type	Size	Lamp qty–type	Catalog no.
Downlight	7 7/8" × 25 1/2"	1-T8	LWBU117
	7 7/8" × 37 1/2"		LWBU125
	7 7/8" × 49 1/2"		LWBU132
	7 7/8" × 25 1/2"	2-T8	LWBU217
	7 7/8" × 37 1/2"		LWBU225
	7 7/8" × 49 1/2"		LWBU232

Example	LWBU132	UNV	HI	A
	LWBU	Voltage	Ballast	Options
	Wall Mounted Downlight Luminaire	120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 Ballast only)	See page 4.160	See page 4.160 and page 4.216

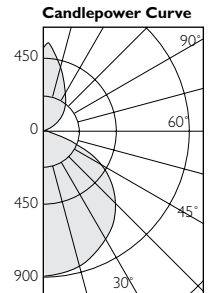
LWBU232UNVHI



Reference data

Efficiency	65.2%
Spacing ratio	1.2

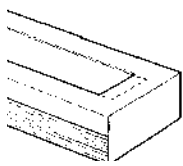
1 & 2 Lamp Uplight/Downlight



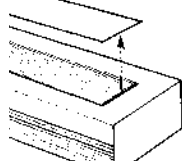
Ordering information

Type	Size	Lamp qty–type	Catalog no.
Uplight / Downlight	7 7/8" × 25 1/2"	1-T8	LWBU117
	7 7/8" × 37 1/2"		LWBU125
	7 7/8" × 49 1/2"		LWBU132
	7 7/8" × 25 1/2"	2-T8	LWBU217
	7 7/8" × 37 1/2"		LWBU225
	7 7/8" × 49 1/2"		LWBU232

Example	LWBU132	UNV	HI	A
	LWBU	Voltage	Ballast	Options
	Wall Mounted Uplight/Downlight Luminaire	120 = 120V 277 = 277V UNV = 120-277V (Elec. T8 Ballast only)	See page 4.160	See page 4.160 and page 4.216



Uplight lens cover for downlight only



Uplight lens cover removed for uplight/downlight



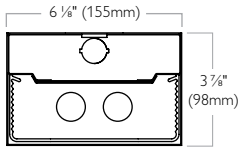
Controlled uplight/downlight (LWBU)

LSW

Wall mounted/ceiling mounted



LS4R232UNVHI

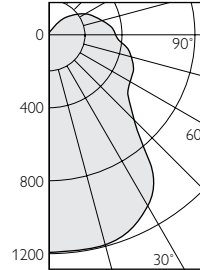


Reference data

Efficiency	73.9%
Spacing ratio	1.3

1 Lamp Downlight

Candlepower Curve



Features

- For ceiling or wall (vertically or horizontally) mounted applications.
- Only 3 7/8" deep, meets Americans with Disabilities Act (wall mounted).
- Low brightness .125 thick linear prismatic virgin acrylic refractor.
- Invisible spring steel latches align refractor to housing.
- 20 gauge cold rolled steel post painted baked white enamel end caps.
- For over mirror, over bed, corridor, stairwell and bulletin board applications.

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Prismatic Lens Luminaire	6" x 23 15/16" 6" x 47 15/16"	2-T8	LS2R217 LS4R232

Example

LS4R232

LSW

Wall or Ceiling Mounted Luminaire

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast

See page 4.161

A

Options

See page 4.161 and page 4.216

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
LOL T8 Dimming	–	PS

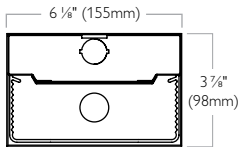
* Instant start

** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

LS4R132UNVHI

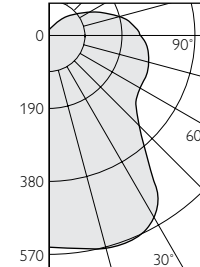


Reference data

Efficiency	76.9%
Spacing ratio	1.4

2 Lamp Downlight

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Prismatic Lens Luminaire	6" x 23 15/16" 6" x 47 15/16"	1-T8	LS2R117 LS4R132

Example

LS4R132

LSW

Wall or Ceiling Mounted Luminaire

UNV

Voltage

120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast

See page 4.161

A

Options

See page 4.161 and page 4.216



Deepcel Surface 2' x 4' & 2' x 2'

3" parabolic louver surface fluorescent luminaires

Features

- Only 5 1/2" deep.
- Welded 20 gauge steel body.
- 45° mitered corners (body and louver).
- Side-mounted ballast for cooler operation.
- 3" deep aluminum parabolic louver.
- Vertical grain on louver eliminates reflected lamp image on cross baffle.
- Matches Deepcel 2x2 and 2x4 recessed.
- Perfectly uniform four-side black reveal.
- Spring-loaded latches.
- Reversible louver hinging.
- Door jamb with integral positive light stop.
- Flush end K.O.'s for smooth surface appearance (at end of row or individual).
- Louver has polyethylene dust guard.
- Meets NYC Code requirements.

Options & accessories page 4.130

Louvers finish: Low indescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp Electronic T8	H3* , P3**	O3*
1 - 4 Lamp Electronic T8	H4* , P4**	O4*
1 - 3 Lamp Elec. TT5 (40W)	I3*	X3*
1 & 2 Lamp Elec. TT5 (40W)	IB* , PR**	SB*

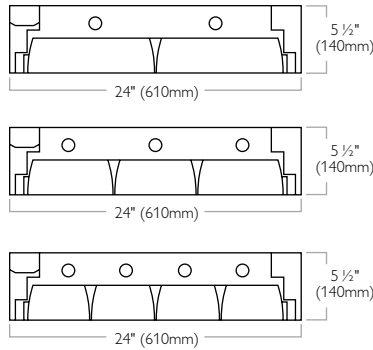
* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Stem and canopy sets: Suspend fixture 6", 12", 18" or 24" from surface. (Four per fixture is recommended.)
Catalog no.: **ASC6 CSP** (6"); **ASC12 CSP** (12"); **ASC18 CSP** (18"); **ASC24 CSP** (24").

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

DPB2S18LS332UNVH3



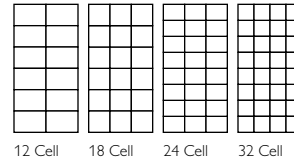
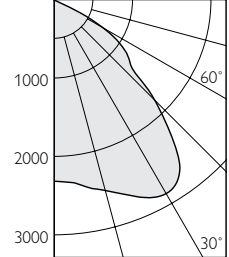
Reference data

Efficiency	69.6%
Spacing ratio	1.6

Electronic ballast

Input watts (120V)	85.0W
--------------------	-------

Candlepower Curve



Ordering information

Type	Cells	Size	Lamp qty-type	Catalog no.
Surface	12	2' x 4'	2-T8	DPB2S12LS232
Surface	18		3-T8	DPB2S18LS332
Parabolic	24		3-T8	DPB2S24LS332
Parabolic	32		4-T8	DPB2S32LS432

Example

DPB2S18LS332
Deepcel Surface
Surface 3" Parabolic

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

H3

Ballast

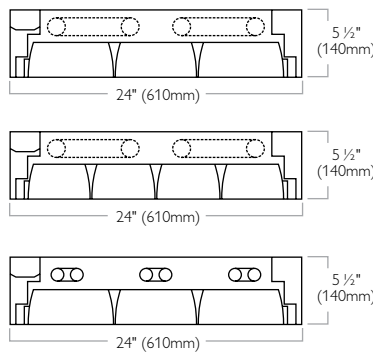
See page 4.162

A

Options

See page 4.162 and page 4.130

DPB2S9LS26UUNVHI



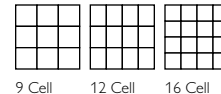
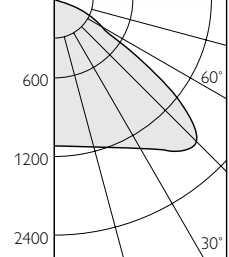
Reference data

Efficiency	57.6%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	60.0W
--------------------	-------

Candlepower Curve



Ordering information

Type	Cells	Size	Lamp qty-type	Catalog no.
Surface	9	2' x 2'	2-T8 U6	DPB2S9LS26U
	12		2-T8 U6	DPB2S12LS26U
	16		2-T8 U6	DPB2S16LS26U
Parabolic	9	2' x 2'	3-T8 17W	DPB2S9LS317
	9		3-TT5 Biax	DPB2S9LS3FT
	9		3-T8U1.6	DPB2S9LS32U
	12		3-TT5 Biax	DPB2S12LS3FT
	12		3-T8U1.6	DPB2S12LS32U

Example

DPB2S9LS26U
Deepcel Surface
Surface 3" Parabolic

UNV

Voltage

120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

HI

Ballast

See page 4.162

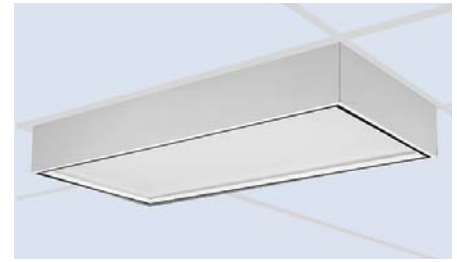
A

Options

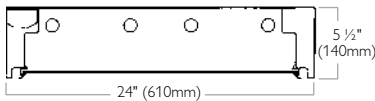
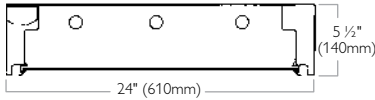
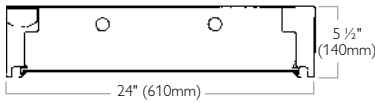
See page 4.162 and page 4.130

Prismalyte Surface 2'x4', 2'x2' & 1'x4'

Premium specification lensed surface fluorescent luminaires



PNB2SRAVA432UNVH4



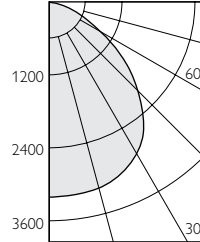
Reference data

Efficiency 60.2%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 112W

Candlepower Curve



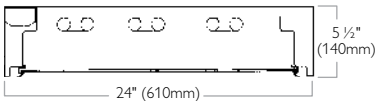
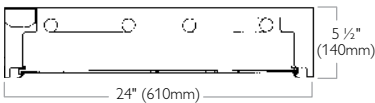
Features

- 20 gauge steel housing.
- Housing mitered corner detailing.
- Only 5 1/2" deep.
- Dual side wireways for cooler operation.
- Quick remove ballast covers.
- Fully enclosed wiring.
- Available in three lens frame styles.
- Door jamb with positive light stop.
- Positive spring-loaded or cam-action latches.
- Available with floating or full size doors.
- Aluminum doors with mitered corners.
- Matches Prismalyte troffer (see page 4.122).
- Meets NYC Code requirements.
- Matches 1x4, 2x2, 2x4 Prismalyte Recessed.

Ordering information

Type	Size	Lamp qty–type	Catalog no.
Surface	2' x 4'	2-T8	PNB2SRAVA232
Parabolic	2' x 4'	3-T8	PNB2SRAVA332
		4-T8	PNB2SRAVA432

PNB2SRAVA26UUNVHI



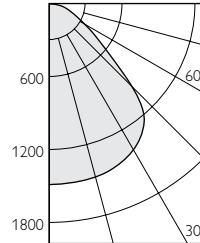
Reference data

Efficiency 57.3%
Spacing ratio 1.4

Electronic ballast

Input watts (120V) 60.0W

Candlepower Curve



Options & accessories page 4.130

Special lenses: VA lens is standard virgin acrylic. For other available lenses, see page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ordering information

Type	Size	Lamp qty–type	Catalog no.
Surface	2' x 2'	2-T8 U6	PNB2SRAVA26U
Parabolic	2' x 2'	3-TT5	PNB2SRAVA3FT
		3-T8 U1.6	PNB2SRAVA32U

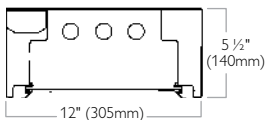
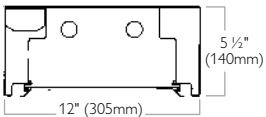
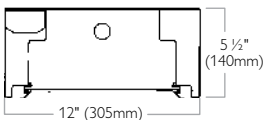
Ballast type

	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp Electronic T8	H3* , P3**	O3*
1 - 4 Lamp Electronic T8	H4* , P4**	O4*
1 - 3 Lamp Elec. TT5 (40W)	I3*	X3*
1 & 2 Lamp Elec. TT5 (40W)	IB* , PR**	SB*

* Instant start

** Program start

PNB1SRAVA232UNVHI



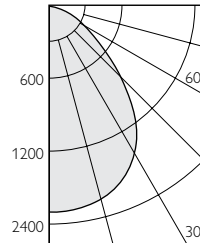
Reference data

Efficiency 58.4%
Spacing ratio 1.2

Electronic ballast

Input watts (120V) 62.0W

Candlepower Curve



Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Stem and canopy sets: Suspend fixture 6", 12", 18" or 24" from surface. (Four per fixture is recommended.)
Catalog no.: **ASC6 CSP** (6"); **ASC12 CSP** (12"); **ASC18 CSP** (18"); **ASC24 CSP** (24").

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

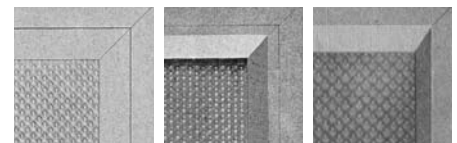
Ordering information

Type	Size	Lamp qty–type	Catalog no.
Surface	1' x 4'	1-T8	PNB1SRAVA132
Parabolic	1' x 4'	2-T8	PNB1SRAVA232
		3-T8	PNB1SRAVA332

The Prismalyte Surface box

Available with your choice of 3 different Door frames.

To specify which Door frame you prefer, use door name abbreviation indicated in Catalog number (PNB2SRAVA232).



FA = Flush Aluminum Full-Size Door
RA = Regressed Aluminum Full-Size Door
RF = Regressed Aluminum Floating Door

Example

PNB1SRAVA232

Prismalyte Surface
Premium Lensed
Surface Luminaire

UNV

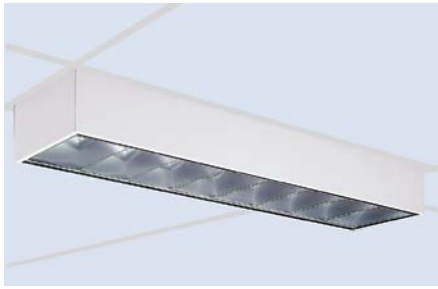
Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.163

A

Options
See page 4.163
and page 4.130



Vision Smart Surface 1' x 4'

Surface

Features

- 20 gauge steel welded body.
- Side mounted ballast for cooler operation.
- 45° mitered corners (body and louver).
- 3" deep cell aluminum parabolic louver (VRB).
- Spring-loaded latches.
- Perfectly uniform four side reveal.
- Low-iridescence, semi-specular aluminum, standard.
- Louver has polyethylene dust guard.
- Meets NYC Code requirements.
- Louver assembly can be replaced with any of 3 standard Philips Lightolier Door frames.

Options & accessories page 4.216

Louder finish: Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*, P2**	SO*
LOL T8 Dimming	–	PS

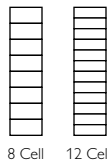
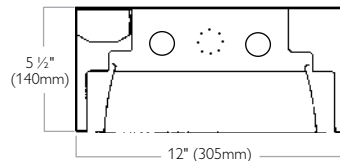
* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Stem and canopy sets: Suspend fixture 6", 12", 18" or 24" from surface. (Four per fixture is recommended.)
Catalog no.: **ASC6 CSP** (6"); **ASC12 CSP** (12");
ASC18 CSP (18"); **ASC24 CSP** (24").

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

VRB1S8LS132UNVHI



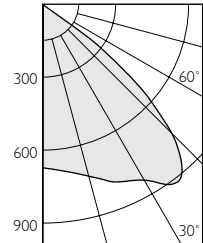
Reference data

Efficiency	66.0%
Spacing ratio	1.9

Electronic ballast

Input watts (120V)	30.0W
--------------------	-------

Candlepower Curve



Ordering information

Type	Cells	Size	Lamp qty-type	Catalog no.
Surface	8	1' x 4'	1-T8	VRB1S8LS132
	12		1-T8	VRB1S12LS132
Parabolic	8	1' x 4'	2-T8	VRB1S8LS232
	12		2-T8	VRB1S12LS232

Example

VRB1S8LS132
Vision Smart
Surface 1' x 4'

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.164

A

Options
See page 4.164
and page 4.216

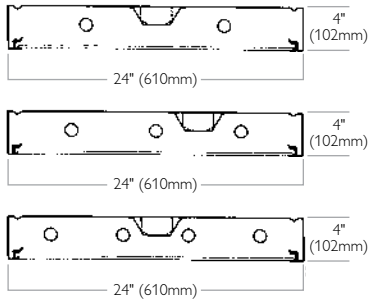
SLB 2' x 4', 2' x 2' & 1' x 4'

High performance lensed surface fluorescent luminaires

High quality surface luminaires with 4" deep housings. Door frames are extruded aluminum or steel. SLB series surface luminaires can be used in low plenum depth areas that require surface luminaires.



SLB2SFSVA432UNVH4



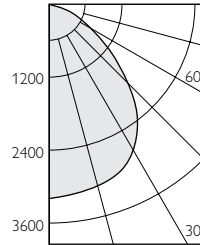
Reference data

Efficiency 67.1%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 112.0W

Candlepower Curve



Features

- Shallow 4" deep, 20 gauge steel housing.
- Positive cam-action latches secure frame on either side.
- Center mounted ballast compartment.
- Snap-on wiring channel cover is removed without tools.
- Matte black light seal on both ends to prevent light leaks.

Options & accessories page 4.216

Special lenses: VA lens is standard virgin acrylic. For other available lenses, see page 4.130.

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ordering information

Type	Door frame	Size	Lamp qty-type	Catalog no.
Surface Luminaire	Flush Steel	2' x 4'	2-T8	SLB2SFSVA232
			3-T8	SLB2SFSVA332
			4-T8	SLB2SFSVA432
Surface Luminaire	Regressed Aluminum	2' x 4'	2-T8	SLB2SRAVA232
			3-T8	SLB2SRAVA332
			4-T8	SLB2SRAVA432

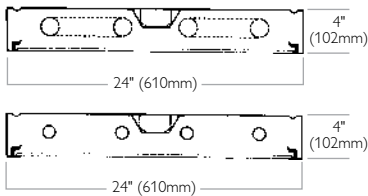
Ballast type

	<10THD	<20THD
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp Electronic T8	H3* , P3**	O3*
1 - 4 Lamp Electronic T8	H4* , P4**	O4*

* Instant start

** Program start

SLB2SFSVA26UUNVHI



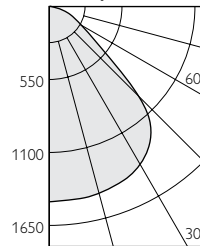
Reference data

Efficiency 63.6%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 60.0W

Candlepower Curve



Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

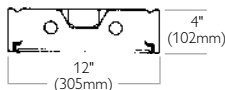
Stem and canopy sets: Suspend fixture 6", 12", 18" or 24" from surface. (Four per fixture is recommended.) Catalog no.: **ASC6 CSP** (6"); **ASC12 CSP** (12"); **ASC18 CSP** (18"); **ASC24 CSP** (24").

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Door frame	Size	Lamp qty-type	Catalog no.
Surface Luminaire	Flush Steel	2' x 2'	2-T8 U6	SLB2SFSVA26U
			4-17W	SLB2SFSVA417
Surface Luminaire	Regressed Aluminum	2' x 2'	2-T8 U6	SLB2SRAVA26U
			4-17W	SLB2SRAVA417

SLB1SFSVA232UNVHI



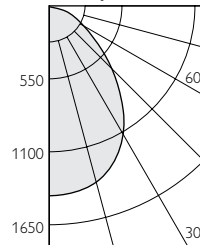
Reference data

Efficiency 56.2%
Spacing ratio 1.2

Electronic ballast

Input watts (120V) 62.0W

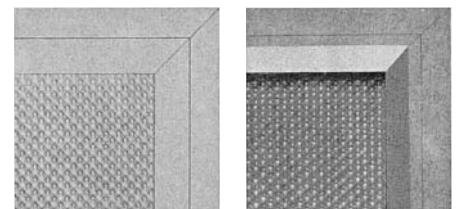
Candlepower Curve



The Prismalyte Surface box

Available with your choice of 2 different door frames.

To specify which door frame you prefer, use door name abbreviation indicated in catalog number (PNB2SRAVA232).



FS = Flush Steel

RA = Regressed Aluminum

Ordering information

Type	Door frame	Size	Lamp qty-type	Catalog no.
Surface Luminaire	Flush Steel	1' x 4'	2-T8	SLB1SFSVA232
			2-T8	SLB1SRAVA232

Example

SLB1SFSVA232

SLB
High Performance
Lensed Surface
Luminaire

UNV

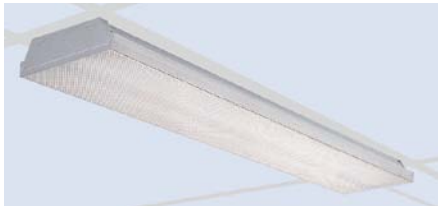
Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

HI

Ballast
See page 4.165

Options

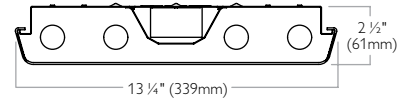
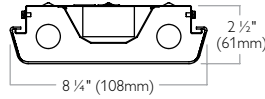
See page 4.165
and page 4.216



Jet Star Lens

Surface

JS4A232UNVHI



Features

- Ideal for low ceiling height applications where recessed units cannot be used.
- 2 13/16" total depth.
- Step-back housing for an apparent depth of 1 3/4".
- A shallow profile and linear prismatic sides combine to reduce ceiling contrast.
- Virgin acrylic lens with one-piece extruded prismatic pattern 12 bottom and linear prism side walls.
- Shielding hinges from either side (self-leveling).
- Full-length ballast cover snaps-in, snaps-out (no tools).
- Individual or continuous row installations.
- Suitable for mounting on low-density cellulose fiberboard surfaces.
- Suitable for damp locations.

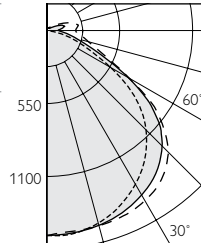
Reference data

Efficiency	85.4%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.0W
LER	78.2

Candlepower Curve



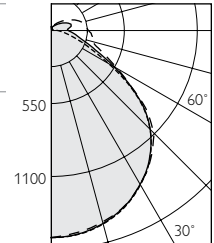
Reference data

Efficiency	90.7%
Spacing ratio	1.4

Electronic ballast

Input watts (120V)	57.0W
LER	81.6

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Catalog no.
Jet Star Lens Luminaire	8 1/4" x 24"	2-T12	JS2A220
	8 1/4" x 24"	2-T8	JS2A217
	8 1/4" x 48"	2-T8	JS4A232
	8 1/4" x 96"	4-T8*	JS8A232
	13 1/4" x 48"	4-T8	JS4B432

Example **JS4A232** Jet Star lens Surface **UNV** Voltage 120 = 120V 277 = 277V UNV= 120-277V (Elec. T8 Ballast only) **HI** Ballast See page 4.166 **A** Options See page 4.166 and page 4.216

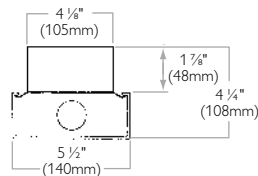
* 2-Lamps In Tandem - 4 Lamps Total



Jet Star Corridor Lens

Surface

JS4C132UNVHI



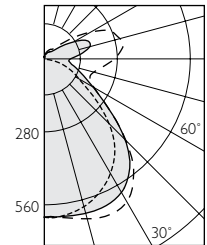
Reference data

Efficiency	84.3%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	34.3W
LER	77.7

Candlepower Curve



Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	SO*
1 - 4 Lamp Electronic T8	H4* , P4**	O4*
LOL T8 Dimming	—	PS

* Instant start
** Program start
For 20W T12, use Ballast suffix **PL**.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts or emergency pack, consult factory.

Canopy spacer: Suspends fixture 1 1/4" from surface. Order Catalog no. **AC1 CSP**.

Stem and canopy sets: Suspend fixture 6", 12", 18" or 24" from surface. (Four per fixture is recommended.) Catalog no.: **ASC6 CSP** (6"); **ASC12 CSP** (12"); **ASC18 CSP** (18"); **ASC24 CSP** (24").

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Ordering information

Type	Size	Lamp qty-type	Catalog no.
Jet Star Lens Luminaire	5 1/2" x 24"	1-T12	JS2C120
	5 1/2" x 24"	1-T8	JS2C117
	5 1/2" x 24"	2-T12	JS2C220
	5 1/2" x 24"	2-T8	JS2C217
	5 1/2" x 48"	1-T8	JS4C132
	5 1/2" x 48"	2-T8	JS4C232
	5 1/2" x 96"	2-T8*	JS8C132
	5 1/2" x 96"	4-T8**	JS8C232

*1-Lamp in tandem - 2 lamps total
**2-Lamps in tandem - 4 lamps total
For T5 options consult factory

Example **JS4C132** Jet Star Corridor lens Surface **UNV** Voltage 120 = 120V 277 = 277V UNV= 120-277V (Elec. T8 Ballast only) **HI** Ballast See page 4.166 **A** Options See page 4.166 and page 4.216

Task lighting

Contents

Pristine	>	4.168
Taskmaster I	>	4.169
Taskmaster II	>	4.169
Taskmaster Solid Front T8	>	4.170
Taskmaster Solid Front T5	>	4.171



Pristine

T2 Task lighting

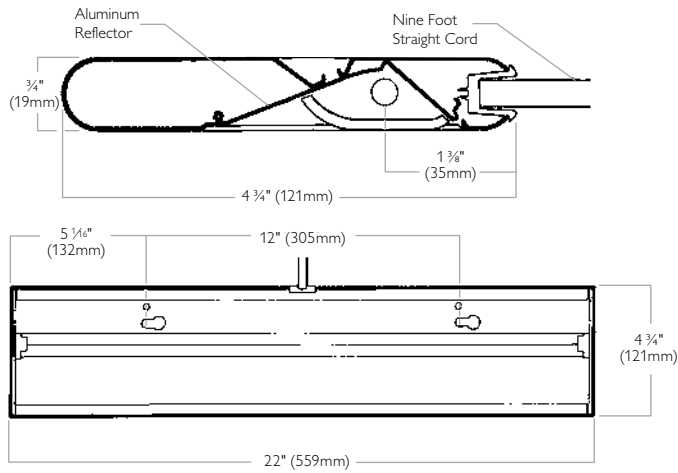
Features

- Architecturally pleasing rounded slim profile only 3/4" deep x 4-3/4" wide.
- Provides median foot candle level of 55 on 2' x 5' desk top.
- Prismatic acrylic spread lens.
- Flush push button switch.
- Electronic program start <10 THD ballast.
- Lamp T2 13W, CRI= 80, color temperature 3500K, lamp is included.
- Nine foot straight black cord.
- Baked pewter polyester enamel finish for cord and plug.
- Baked white polyester enamel finish for hardwire option.
- Meets New York City requirements for task lighting.

Please consult factory for any further options.



Pristine



Ordering information

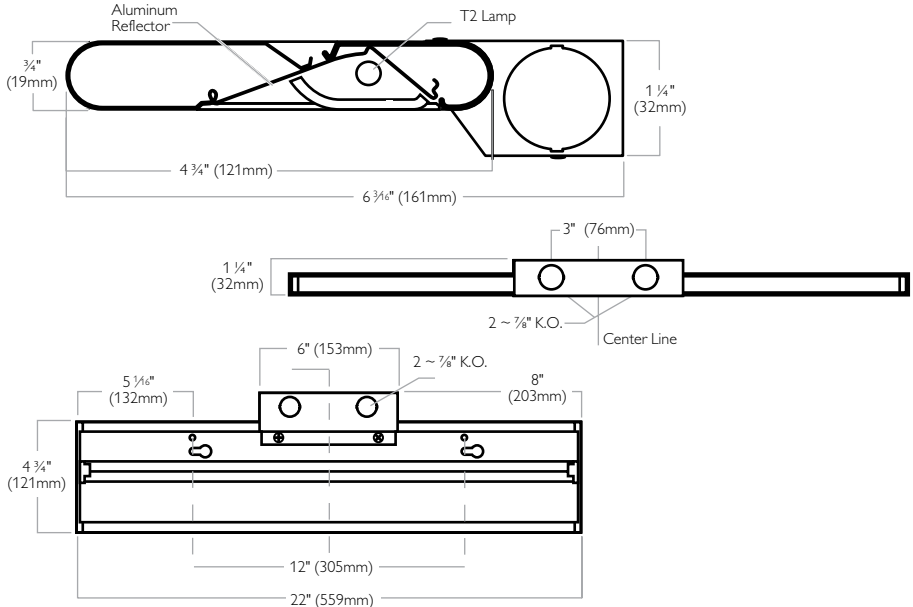
Type	Color	Length	Lamp qty-type	Lamp watts	Catalog no.
Pristine One Lamp with Cord and Plug	Pewter	22"	1-T2	13W	PC2P13T2120PTCPB
Pristine One Lamp with Chicago Style Plug	Pewter	22"	1-T2	13W	PC2P13T2120PTCPBH



Pristine

Hard wire series

Pristine



Pristine Footcandle Readings



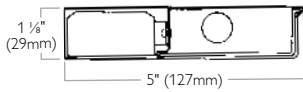
Ordering information

Type	Color	Length	Lamp qty-type	Lamp watts	Catalog no.
Pristine One Lamp Hardwire	White	22"	1-T2	13W	PC2W13T2120PTHW

Taskmaster I

Under shelf luminaires

Taskmaster



Ordering information

Type	Length	Lamp watts/Type	Catalog no.
Taskmaster I (One Lamp)	12 1/4"	8PH	TSL0018W BPR
	21 1/4"	13PH	TSL0113W BPR
	33 1/2"	8PH/13PH (1 each)	TSL1813W BPR
Taskmaster I (Two Lamp)	24 1/4"	8PH	TSL0028W BPR
	42 1/2"	13PH	TSL0213W BPR

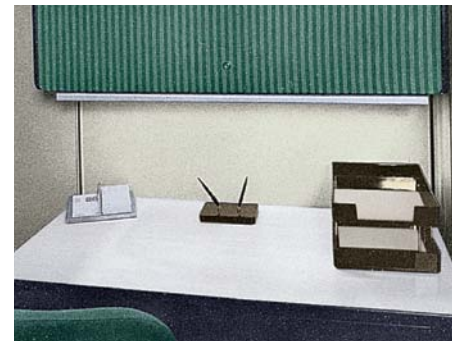
Example **TSL0018W BPR**

Taskmaster I Under Shelf Luminaire

For electronic ballast, substitute **TSLP** for **TSL**, e.g: **TSLP0018W BPR**.



Attractive, unobtrusive lighting



Features

- 1 1/8" shallow depth.
- Five nominal lengths: 12", 21", 24", 33", 42".
- Grounded convenience outlet (optional).
- On/off rocker switch (included in supply pack).
- Baked white enamel finish.

Options & accessories

Accessories that will ship separately order the following:

GLR-B (6 pack of 3 amp fusing)

RIF-SUPR (1-RFI suppressor)

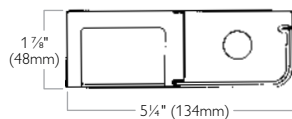
CONV OUTLET 10-pack
(10 pack of outlets and hardware)

Accessories are for field installation.

Taskmaster II

Under shelf luminaires

Taskmaster



Ordering information

Type	Length	Lamp qty-type	Lamp watts	Catalog no.
Taskmaster II	18 1/8"	TS-T12	15W	TCU15W120P BPR
	24 1/8"	TS-T12	20W	TCU20W120P BPR
	36 1/8"	TS-T12	30W	TCU30W120P BPR
Taskmaster II	48 1/8"	TS-T12	40W	TCU40W120P BPR
	24 1/8"	T8	17W	TCU20WUNVRO BPR
	36 1/8"	T8	25W	TCU30WUNVRO BPR
	48 1/8"	T8	32W	TCU40WUNVRO BPR

Example **TCU**
Taskmaster II
Undershelf
Luminaire

40
Lamp/fixture length/watts
15 = 15W TS T12 (Nom. 18")
20 = 20W TS T12 or 17W T8 (Nom. 24")
30 = 30W RS T12 or 25W T8 (Nom. 36")
40 = 40W RS T12 or 32W T8 (Nom. 48")

W
Finish
W = White

UNV
Voltage
120 = 120V
(T12 Only)
UNV= 120-277V
(Elec. T8 Ballast only)

RO
Ballast
P = Standard
Magnetic T12
RO = Rapid Start
<10THD T8

BPR
Bulk pack rocker switch
Warning (277 BPR) Bulk pack rocker switch can not be installed on fixture if 277V is being run.



Features

- 1 7/8" shallow depth.
- Four nominal lengths: 18", 24", 36", 48".
- Grounded convenience outlet (optional).
- On/off rocker switch, standard (included in supply pack).
- Baked white enamel finish.

Options & accessories

Accessories that will ship separately order the following:

GLR-B (6 pack of 3 amp fusing)

RIF-SUPR (1-RFI suppressor)

CONV OUTLET 10-PACK
(10 pack of outlets and hardware)

Accessories are for field installation.

Taskmaster Solid Front T8



Specification undershelf luminaire

Taskmaster

Features

- 1 3/4" shallow depth.
- Three nominal lengths: 24", 36", 48"
- Specification grade undershelf luminaire.
- Solid front design.
- Lens removable without tools for easy maintenance.
- 100% acrylic linear prismatic lens to obscure lamp image and uniformly distribute light output
- Lamp T8, CRI=70, color temp 3500K, is standard and included.
- Paint after fabrication with white polyester paint finish.
- On/off rocker switch (included in supply pack)
120 volt use only.
- Universal voltage.

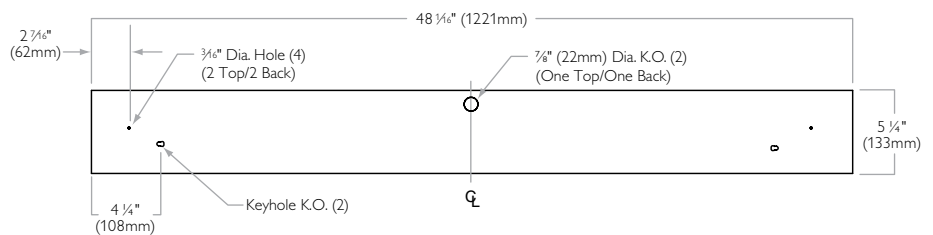
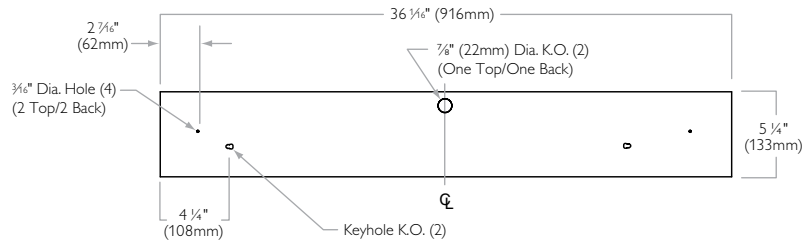
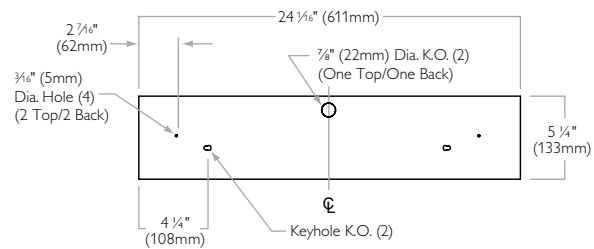
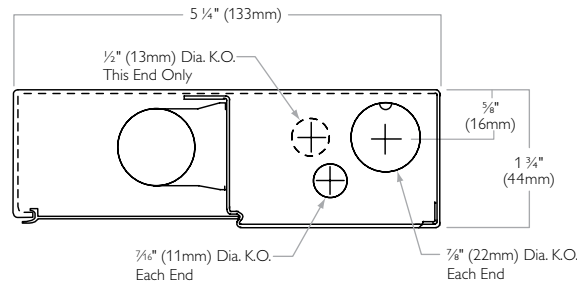
Options & accessories

Accessories that will ship separately order the following:

GLR-B (6 pack of 3 amp fusing)

RIF-SUPR (1-RFI suppressor)

CONV OUTLET (10 PACK)



Ordering information

Type	Length	Lamp qty-type	Lamp watts	Catalog no.	Electronic ballast type
Taskmaster	24 1/8"	1-T8	17W	TCF117WUNVRO BPR	<10 Program Rapid Start
	36 1/8"		25W	TCF125WUNVRO BPR	
	48 1/8"		32W	TCF132WUNVRO BPR	
Sold Front T8	24 1/8"	1-T8	17W	TCF117WUNVHI BPR	<10 Instant start
	36 1/8"		25W	TCF125WUNVHI BPR	
	48 1/8"		32W	TCF132WUNVHI BPR	

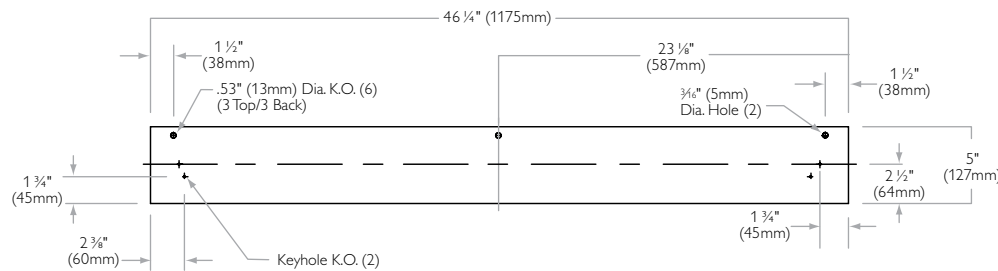
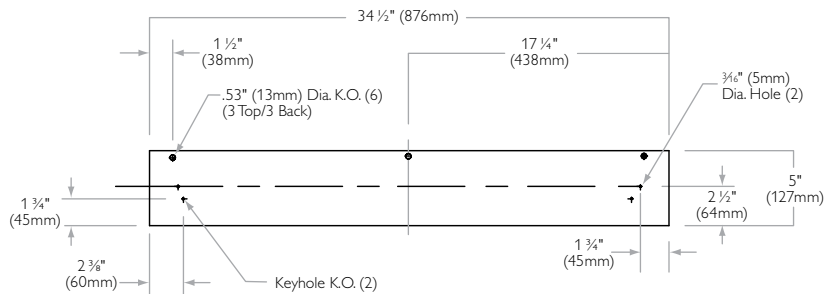
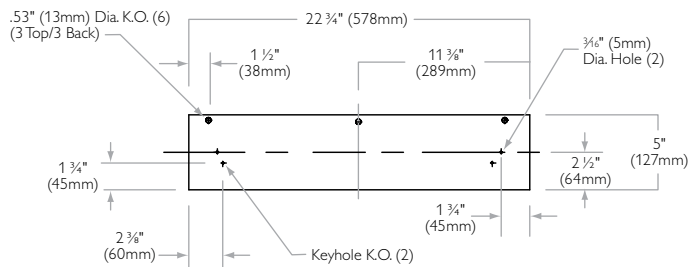
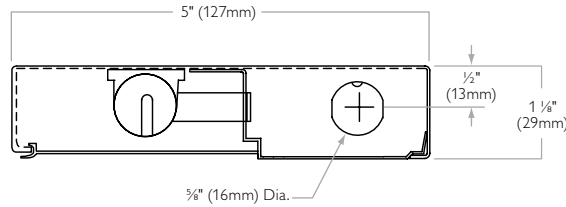
Example	TCF	1	32	W	UNV	RO	BPR
	Taskmaster	Lamp	Lamp/fixture length/watts	Finish	Voltage	Ballast	Bulk pack rocker switch
	Solid Front T8 Specification Undershelf Luminaire	1 = Number of Lamps	17 = 17W T8 (Nom 24") 25 = 25W T8 (Nom 36") 32 = 32W T8 (Nom 48")	W = White	UNV = 120-277V (Elec. T8 Ballast only)	HI = Instant start <10THD T8 RO = Rapid Start <10THD T8	Can only be installed in a 120 volt application

Taskmaster Solid Front T5

Specification undershelf luminaire



Taskmaster



Features

- 1 1/8" shallow depth.
- Three nominal lengths: 22", 34", 46"
- Specification grade undershelf luminaire.
- Solid front design.
- Lens removable without tools for easy maintenance.
- 100% acrylic linear prismatic lens to obscure lamp image and uniformly distribute light output
- Lamp T5, CRI=80, color temp 3500K, is standard and included.
- Paint after fabrication with white polyester paint finish.
- On/off rocker switch (included in supply pack) 120 volt use only.
- Universal voltage.

Options & accessories

Accessories that will ship separately order the following:

GLR-B (6 pack of 3 amp fusing)

CONV OUTLET (10 pack)

Ordering information

Type	Length	Lamp qty-type	Lamp watts	Catalog no.	Electronic ballast type
Taskmaster Solid Front T5	22 3/4"	1-T5	14W	TSF114WUNVPG BPR	<10 Program Rapid Start
	34 1/2"		21W	TSF121WUNVPG BPR	
	46 1/4"		28W	TSF128WUNVPG BPR	

Example	TSF Taskmaster Solid Front T8 Specification Undershelf Luminaire	1 Lamp 1 = Number of Lamps	28 Lamp/fixture length/watts 14 = 14W T5 (Nom 22") 21 = 21W T5 (Nom 34") 28 = 28W T5 (Nom 46")	W Finish W = White	UNV Voltage UNV= 120-277V (Elec. T5 Ballast only)	PG Ballast HI = Program Rapid Start <10THD T5	BPR Bulk pack rocker switch Can only be installed in a 120V application
---------	----------------------------------------------------------------------------------	--------------------------------------------	----------------------------------------------------------------------------------------------------------------------	---------------------------------	-------------------------------------------------------------------	---------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Special purpose & industrial

Special purpose luminaires that address vandal, wet and cleanroom application needs. Industrial lighting for enclosed or open luminaires where special construction is provided to meet concerns of hazardous and industrial areas for proper and safe lighting levels.





Contents

Fluorescent High & Low Bays	>	4.174
Cleanguard Class	>	4.186
Hazardline	>	4.188
Sealatron	>	4.190
Cleanguard Wet	>	4.192
Cleanlite	>	4.193
Guardsman Vandal Resistant	>	4.194
IC Series	>	4.198
TU Turret Industrial	>	4.200
KD/KW Industrial	>	4.201

Fluorescent high & low bays



Current statistics reveal 65% of the energy is being consumed by the commercial and industrial markets and 22% of this energy is being utilized for lighting alone. Smart business managers have discovered the incredible energy savings of up to 50% by replacing traditional HID high bay fixtures with efficient linear fluorescent T5HO and T8 luminaires. These are the ideal green solution and have the added benefits of high Philips Lightolier, illumination uniformity and instant-on starting.

A wide variety of T5 and T8 fluorescent fixtures are offered by Philips Lightolier for high and low bay lighting, all providing exceptional features for the application they were designed for. Here are some features you may want to consider when choosing a fluorescent high bay.

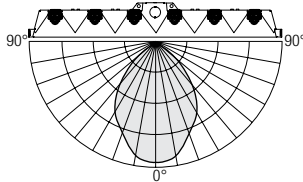
Light beam

1. Selecting the right reflector is just as important as choosing the right luminaire. Reflectors determine how light is distributed in a space. Each reflector design has a specific light distribution function that is suited to certain applications better than others.



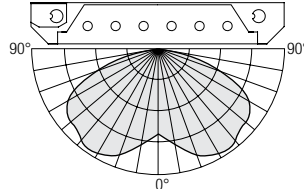
Contoured Miro IV specular reflector

Features a mirrored silver finish designed to concentrate beam spread and optimize lamp performance making it ideal to concentrate light on the racks of a warehouse or a store.



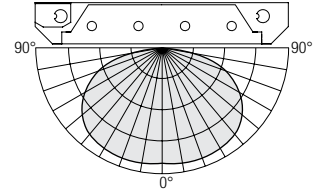
Flat Miro IV specular reflector

For assembly plant as well as retail open area, a flat design reflector with mirrored silver finish produces very wide light distribution and optimizes efficiency.



Flat white reflector

In gymnasiums, low-glare and wide light distribution which can be provided by a flat white reflector are a must.



Uplight vs. downlight only

2. A well-lit, inviting ceiling appearance contributes to a store's or working's positive ambience. Darker ceilings produce a more closed-in feeling, uncomfortable to most people. Uplight reduces the cave effect, expands the space and makes it look cleaner.



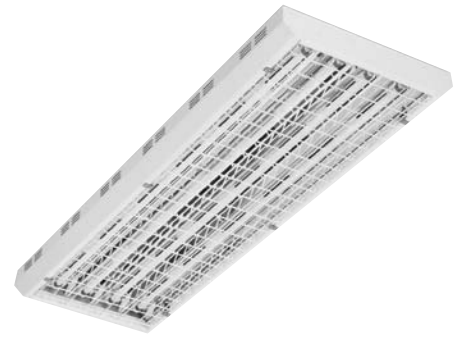
Motion sensors for additional savings

3. By including occupancy sensor controls, the energy reduction is even greater, especially in areas of a facility that have limited traffic. Unlike HID lamping, adding occupancy sensors to T5HO and T8 systems is relatively easy and inexpensive. If the addition of a sensor makes you nervous, consider using the Smart TriLyte turnkey solution which has the technology to optimize lamp life.

Whether it is for industrial, recreational or commercial uses, you will find that Philips Lightolier's fluorescent high bays deliver great lighting packages, superior energy efficiency and occupancy sensing capabilities.

Fluorescent high bay

Selection chart



Trilyte



The best design in its category including ballast ventilation and body strength. Most versatile high bay in regards to application, especially in industrial aisles.

Smart Trilyte



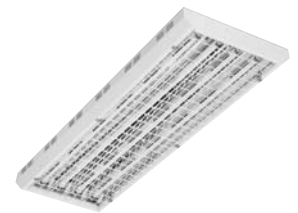
TriLyte including Philips Alto low mercury lamps, Advance electronic ballast and a sensor optimizing lamp life and energy savings. Guaranteed for 3 years.

Trilyte Nordik



The same light output at -18°C as the regular TriLyte at 25°C, making it perfect for cold storage.

Gymlyter



Highly resistant, full body luminaire with strong wireguard.

	Design		Lamp		Distribution		Reflector			Application					Mounting		Accessories				Lamps	Warranty	
	Narrow	Wide	T5	T8	Downlight/ Uplight	Downlight	Contoured MIRO IV	Flat MIRO IV	Flat White	Industrial	Recreative	Retail	Cold Environments*	Hot Environments**	Surface	Pendant	Chain	Stern	Sensor	Door			Wireguard
Trilyte	2, 3, 4, 4T	6	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•		•	•	
Smart Trilyte	4	6	•	•		•	•	•	•	•			•	•	•	•	•	•	STD		•	STD	3 years
Trilyte Nordik	4	6	T5HO			•	•						•		•					STD		STD	
Gymlyter	2, 3, 4, 4T	6	•	•		•		•	STD		•		•	•	•	•	•	•			STD	•	

STD = Standard

T = Lamps in tandem (e.g. 4T means 8 lamps total)

**Rated for use from 5°C to 55°C ambient (without lens).

**Rated for use from -18°C to 5°C ambient.

For any special solution, contact your Philips Lightolier representative.



TriLyte Narrow

Narrow-body 2, 3 & 4 lamp lowbay surface/pendant luminaire

Designed for Trade (commercial spaces), Recreational and Industrial locations, TriLyte provides much needed versatility in lowbay applications. Using the appropriate lamp, wattage and reflector options, this narrow-body version is also suitable for highbay lighting, particularly retail outlets and indoor sports facilities. Its low-profile housing (almost 1" shallower than most competing models) is perfect for areas that place a premium on luminaire appearance. Dual-circuit TriLyte equipped with optional motion sensor delivers added lighting control flexibility for industrial applications.

Features

- Sturdy one-piece post-painted housing providing clean, smooth, installation-friendly corners.
- Side-mounted ballast for low 2-3/4" profile.
- Mounting heights from 12' to 45' with suitable lamping-reflector lens selection.
- 2, 3 and 4-lamp versions (cross-section view).
- Available in 4' and 8' lengths.
- Choice of contoured specular, flat specular or flat white reflector.
- Contoured specular reflector offers optimum performance and 95% reflectivity (not available on 2-lamp model).
- Choice of stem, surface or chain mounting.
- Accepts emergency battery packs.
- Available motion sensor allows for total lighting control, added energy savings.

Options & accessories

Ballast: Specify voltage (120, 277 or UNV) and add as suffix, e.g. **120PU**.

Ballast type

Ballast type	<10THD
Elect. I.S. T8, (1) 4-Lamp	H4
Elect. I.S. T8, (1) 4-Lamp & (1) 2-Lamp	H5
Elect. I.S. T8, (2) 4-Lamp one 4-Lamp ballast to operate outside lamps one 4-lamp ballast to operate inside lamps	H7
Elect. P.S. T5/T5HO, (1) 2-Lamp	PG
Elect. P.S. T5/T5HO, (1) 3-Lamp	PU
Elect. P.S. T5/T5HO, (1) 4-Lamp	PV
Elect. P.S. T5/T5HO, (1) 4-Lamp & (1) 2-Lamp one 4-Lamp ballast to operate outside lamps one 2-lamp ballast to operate inside lamps	P6
Elect. P.S. T5/T5HO, (2) 3-Lamp one 3-Lamp for 1, 3, & 5 and one 3-Lamp for 2, 4, & 6	P7
Elect. P.S. T5/T5HO, (2) 4-Lamp one 4-Lamp for 1, 3, & 5 and one 4-Lamp for 2, 4, & 6	P8

Consult your representative for other ballast options.

Electrical/wiring options:

Consult your Philips Lightolier representative.

Stem and canopy sets 4 stems required per luminaire.

Order cat. no. **ASC12 CSP** (12"), **ASC18 CSP** (18"), **ASC24 CSP** (24"), **ASC36 CSP** (36"), **ASC48 CSP** (48").

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

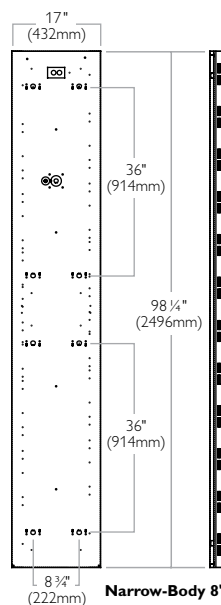
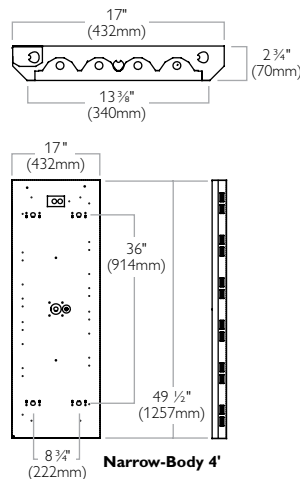
Chain hanger kit: 2 kits required per luminaire.
Order catalog number **EE9HC**.

Wireguard/lens: Variety of shielding options available.

Luminaire-mounted motion sensor: 360° coverage. Field installed. Only available on luminaires with contoured specular reflectors. Order catalog number **FH360**.

Remote-mounted motion sensor: Narrow coverage. Field installed. Order catalog number **FH110**.

FH4C4DXX454120PV



XX = Version without lens shielding.

RCP	C.U.
1	63
2	57
3	51
4	45
5	41
6	37
7	33
8	30
9	27
10	24

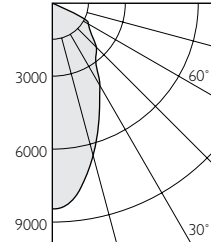
Reference data

Efficiency	89.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	58W
LER FI-T	6.0

Candlepower Curve



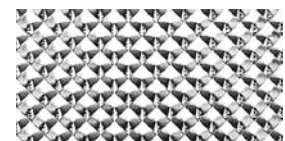
Application data*

Luminaire spacing	FC	W/Sq Ft
300' x 400' x 25' Space 17' on center	50	0.81
120' x 80' x 28' Space 16' on center	55	0.98
300' x 400' x 25' Space 14' on center	75	1.15

* Average Footcandles Maintained. Total LLF = 0.84.
Reflectance: 80% Ceiling, 50% Wall, 20% Floor.
54W T5HO lamp rated at 4400 lumens at 25°C.



WW = White hinged wireguard only (no lens), 9-gauge wire adding rigidity to luminaire.



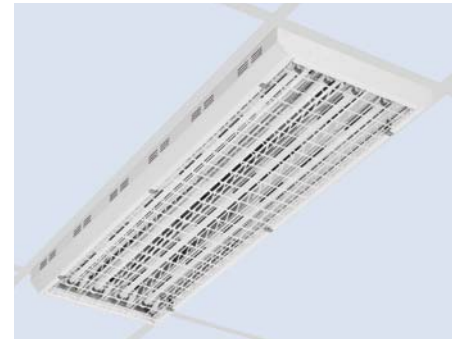
VA = Pattern 12 prismatic lens made of virgin acrylic (.095" nominal). Complete with hinged white wireguard.

VI = Pattern 12 prismatic lens made of virgin acrylic (.125" nominal). Complete with hinged white wireguard.

TriLyte Narrow

Narrow-body 2, 3 & 4 lamp lowbay surface/pendant luminaire

Designed for Trade (commercial spaces), Recreational and Industrial locations, TriLyte provides much needed versatility in lowbay applications. Using the appropriate lamp, wattage and reflector options, this narrow-body version is also suitable for highbay lighting, particularly retail outlets and indoor sports facilities. Its low-profile housing (almost 1" shallower than most competing models) is perfect for areas that place a premium on luminaire appearance. Dual-circuit TriLyte equipped with optional motion sensor delivers added lighting control flexibility for industrial applications.



Ordering information for T5

Type	Lamp qty/type	Lamp/luminaire nominal length	Luminaire width	Catalog no.
Prismatic Lens (VI) with Wireguard	2-T5HO	48"	17"	FH4W4DVI254UNVPG
	3-T5HO	48"		FH4C4DVI354UNVPG
	4-T5HO	48"		FH4C4DVI454UNVPG
	6-T5HO	96" tandem		FH8C4DVI354UNVP6
	8-T5HO	96" tandem		FH8C4DVI454UNVP8
White Wireguard with No Lens	2-T5HO	48"	17"	FH4W4DWW254UNVPG
	3-T5HO	48"		FH4C4DWW354UNVPG
	4-T5HO	48"		FH4C4DWW454UNVPG
	6-T5HO	96" tandem		FH8C4DWW354UNVP6
	8-T5HO	96" tandem		FH8C4DWW454UNVP8

Ordering information for T8

Type	Lamp qty/type	Lamp/luminaire nominal length	Luminaire width	Catalog no.
Prismatic Lens (VI) with Wireguard	2-T8	48"	17"	FH4W4DVI232UNVHI
	3-T8	48"		FH4C4DVI332UNVH3
	4-T8	48"		FH4C4DVI432UNVH4
	6-T8	96" tandem		FH8C4DVI332UNVH5
	8-T8	96" tandem		FH8C4DVI432UNVH7
White Wireguard with No Lens	2-T8	48"	17"	FH4W4DWW232UNVHI
	3-T8	48"		FH4C4DWW332UNVH3
	4-T8	48"		FH4C4DWW432UNVH4
	6-T8	96" tandem		FH8C4DWW332UNVH5
	8-T8	96" tandem		FH8C4DWW432UNVH7

Example

FH4W4DWW454

Basic catalog no.
TriLyte Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

PV

Ballast
See previous page

A

Options
See previous page

Acronyms used

CU = Coefficients of utilization
FC = Footcandles
IS = Instant start
LLF = Light loss factor
PS = Program start
RCR = Room cavity ratio
THD = Total harmonic distortion

Numbering logic

FH	4	W	4	D	WW	4	54	UNV	PV	
Luminaire type	Luminaire length	Body style	Width	Type	Lens/shielding	Lamp qty in a luminaire cross-section	Lamp/type	Voltage	Ballast	Options
FH = TriLyte	4 = 4' 8 = 8'	W = Flat Design White Reflector C = Contoured Specular Reflector S = Flat Design Specular Reflector	4 = 17"	D = Downlight	VA = Prismatic Lens VA with Wireguard VI = Prismatic Lens VI with Wireguard WW = Wireguard, White /No Lens XX = No Shielding	2 = 2 Lamps 3 = 3 Lamps 4 = 4 Lamps	28 = T5 28W 32 = T8 32W 54 = T5HO 54W	120 = 120V 277 = 277V UNV = 120-277V	See previous page	See previous page



TriLyte Wide

Wide-body 6 lamp highbay surface/pendant luminaire

Designed for Trade (commercial spaces), Recreational and Industrial locations, TriLyte provides much needed versatility in highbay applications. Using the appropriate lamp, wattage and reflector options, this wide-body version is also suitable for lowbay lighting, particularly retail outlets and indoor sports facilities. Its low-profile housing (almost 1" shallower than most competing models) is perfect for areas that place a premium on luminaire appearance. Dual-circuit TriLyte equipped with optional motion sensor delivers added lighting control flexibility for industrial applications.

Features

- Sturdy one-piece post-painted housing providing clean, smooth, installation-friendly corners.
- Side-mounted ballast for low 2-3/4" profile.
- Mounting heights up to 45'.
- 6-lamp versions only (cross-section view).
- Available in 4' lengths only.
- Choice of contoured specular or flat white reflector.
- Contoured specular reflector offers optimum performance and 95% reflectivity.
- Choice of stem, surface or chain mounting.
- Accepts emergency battery packs.
- Available motion sensor allows for total lighting control, added energy savings.

Options & accessories

Ballast: Specify voltage (120, 277 or UNV) and add as suffix, e.g. **UNVPG**.

Ballast type

<10THD

Elect. I.S. T8, (1) 4-Lamp & (1) 2-Lamp	H5
Elect. P.S. T5/T5HO, (1) 4-Lamp & (1) 2-Lamp one 4-Lamp ballast to operate outside lamps one 2-lamp ballast to operate inside lamps	P6
Elect. P.S. T5HO, (2) 3-Lamp one 3-Lamp for 1, 3, & 5 and one 3-Lamp for 2, 4, & 6	P7

Consult your representative for other ballast options.

Electrical/wiring options:

Consult your Philips Lightolier representative.

Stem and canopy sets: 4 stems required per luminaire.

Order cat. no. **ASC12 CSP** (12"),

ASC18 CSP (18"), **ASC24 CSP** (24"),

ASC36 CSP (36"), **ASC48 CSP** (48").

Fusing: Suffix: **A** (Internal fast-blow fusing).

Suffix: **C** (Internal slow-blow fusing).

Chain hanger kit 2 kits required per luminaire.

Order catalog number **EE9HC**.

Wireguard/lens Variety of shielding options available.

Luminaire-mounted motion sensor 360° coverage.

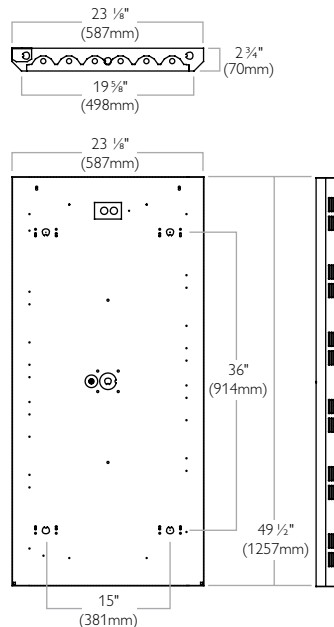
Field installed. Only available on luminaires with

contoured specular reflectors. Order cat. no. **FH360**.

Remote-mounted motion sensor Narrow coverage.

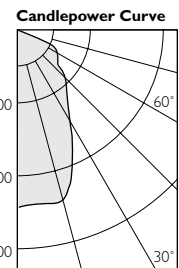
Field installed. Order catalog number **FH110**.

FH4C5DXX654UNVP6



RCP	C.U.
1	100
2	92
3	85
4	79
5	72
6	67
7	62
8	58
9	53
10	49

Reference data	
Efficiency	90.0%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	234W
LER	1.00



Application data*

Luminaire spacing	FC	W/Sq Ft
120' x 80' x 28' Space	240 sq ft per lum.	80 1.5
120' x 80' x 28' Space	20' on center	50 1.9
300' x 400' x 25' Space	18' on center	75 1.1

* Average footcandles maintained. Total LLF = 0.84. Reflectance: 80% Ceiling, 50% Wall, 20% Floor. 54W T5HO lamp rated at 4400 lumens at 25°C.

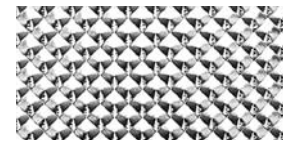
** Average footcandles maintained. Total LLF = 0.84. Reflectance: 50% Ceiling, 30% Wall, 20% Floor. 54W T5HO lamp rated at 4400 lumens at 25°C.



XX = Version without lens shielding.



WW = White hinged wireguard only (no lens), 9-gauge wire adding rigidity to luminaire.



VA = Pattern 12 prismatic lens made of virgin acrylic (.095" nominal). Complete with hinged white wireguard.

VI = Pattern 12 prismatic lens made of virgin acrylic (.125" nominal). Complete with hinged white wireguard.

TriLyte Wide

Wide-body 6 lamp highbay surface/pendant luminaire

Designed for Trade (commercial spaces), Recreational and Industrial locations, TriLyte provides much needed versatility in highbay applications. Using the appropriate lamp, wattage and reflector options, this wide-body version is also suitable for lowbay lighting, particularly retail outlets and indoor sports facilities. Its low-profile housing (almost 1" shallower than most competing models) is perfect for areas that place a premium on luminaire appearance. Dual-circuit TriLyte equipped with optional motion sensor delivers added lighting control flexibility for industrial applications.



Ordering information for T5

Type	Lamp qty/type	Lamp/luminaire nominal length	Luminaire width	Catalog no.
Prismatic Lens (VI) with Wireguard	6-T5HO	48"	23"	FH4C5DVI654UNVP6
White Wireguard with No Lens	6-T5HO	48"	23"	FH4C5DWW654UNVP6

Ordering information for T8

Type	Lamp qty/type	Lamp/luminaire nominal length	Luminaire width	Catalog no.
Prismatic Lens (VI) with Wireguard	6-T8	48"	23"	FH4C5DVI632UNVH5
White Wireguard with No Lens	6-T8	48"	23"	FH4C5DWW632UNVH5

Example

FH4W5DWW654

Basic Catalog no.
TriLyte Luminaire

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

P6

Ballast
See previous page

Options

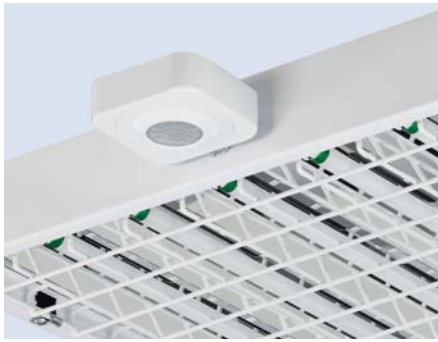
See previous page

Acronyms used

CU = Coefficients of utilization
FC = Footcandles
IS = Instant start
LLF = Light loss factor
PS = Program start
RCR = Room cavity ratio
THD = Total harmonic distortion

Numbering logic

FH	4	W	5	D	WW	6	54	UNV	P6	Options
Luminaire type	Luminaire length	Body style	Width	Type	Lens/shielding	Lamp qty in a luminaire cross-section	Lamp/type	Voltage	Ballast	Options
FH = TriLyte	4 = 4'	W = Flat Design White Reflector C = Contoured Specular Reflector	5 = 23"	D = Downlight	VA = Prismatic Lens VA with Wireguard VI = Prismatic Lens VI with Wireguard WW = Wireguard, White with No Lens XX = No Shielding	6 = 6 Lamps	28 = T5 28W 32 = T8 32W 54 = T5HO 54W	120 = 120V 277 = 277V UNV = 120-277V	See previous page	See previous page



Smart TriLyte

Low / high bay including lamps, ballast and sensor with a 3 year warranty

The Smart TriLyte is the first and only packaged fluorescent low/high bay engineered specifically to correctly address sensor applications lamp cycling in Canada. It delivers optimal performance and is the only occupancy-sensored linear fluorescent low/high bay that carries a complete system warranty on all components including lamps, ballast, sensor and luminaire for 3 years.

Features

- Complete system integrating motion sensor and Philips lamps, ballast, and lighting fixture
- **Lamps:** Low Mercury Philips Alto II T8 lamps (Philips F32T8/TL841/Alto II, 4100K, 2850 initial lumens) or Alto T5HO lamps (Philips F54T5/841/ HO/ALTO, 4100K, 5000 initial lumens) showing 95% lumen maintenance and reduced lamp-end blackening. For other lamp colour temperatures, consult your Philips Lightolier representative
- 4 models (Narrow-body) – Available in 4' and 8' lengths
- 6 models (Wide-body) – Available in 4' length only.
- **Sensor:** LampMaximizer optimizes lamp life and energy costs while reducing maintenance costs. Circular detection with passive infrared for 30-40 ft diameter coverage. Green LED on the sensor will blink constantly for 31 days once 70% of the projected lamp life has been reached
- **Ballast:** Philips Advance programmed start electronic ballast. Total Harmonic Distorsion of <10%
- Rated for ballast case temperature up to 90°C. Tested to operate at ambient temperatures of 55°C (6-lamp version without lens). For lens applications, consult your Philips Lightolier representative
- **Guarantee:** 3-year guarantee on all components including lamps, ballasts, sensor and any other component installed on the product by the factory. Properly installed product that Philips Lightolier determines to be defective will be repaired or replaced at Philips Lightolier's discretion. (The warranty covers the repair or replacement of the product and does not extend to transportation, installation or replacement charges. No other warranty, either expressed or implied, beyond this statement is included. Consult your Philips Lightolier representative for further information.)
- **Body:** One-piece post-painted housing providing clean, smooth, installation-friendly corners
- **Reflector:** Contoured Miro IV reflector offers optimum performance and 95% reflectivity
- **Mounting:** Choice of stem, surface or chain mounting. 12' to 45' mounting height with suitable lamp reflector lens mix
- **Bulk Pack:** Sold in bulk pack only

Options & accessories

Wireguard/lens: See besides.

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

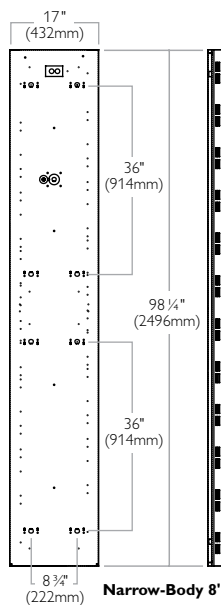
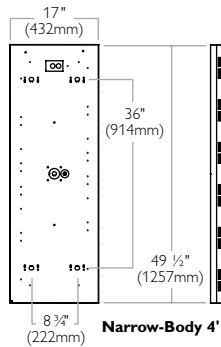
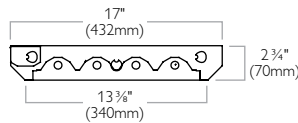
Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Stem and canopy sets: 4 stems required per luminaire. Order catalog no. **STKF12** (12"), **STKF18** (18"), **STKF24** (24"), **STKF36** (36"), **STKF48** (48").

Chain hanger kit: 2 kits per luminaire. Order catalog no. **EE9HC**.

FH4C4DXX454UNVSM

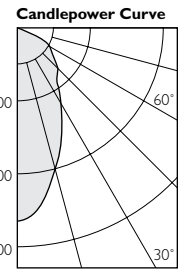
Narrow Body, 4-Lamp T5HO



XX = Version without lens shielding.

RCP	C.U.
1	96
2	88
3	82
4	76
5	70
6	66
7	60
8	56
9	52
10	48

Reference data	
Efficiency	86.2%
Spacing ratio	1.2
Electronic ballast	
Input watts (120V)	234W
Ballast factor	1.0



Application data*

Luminaire spacing	FC	W/Sq Ft
100' x 12' x 28' Space 20' on center	17/10	0.98
100' x 12' x 28' Space 15' on center	23/14	1.37

* Average footcandles maintained. Total LLF = 0.84. Reflectance: 50% Ceiling, 30% Wall, 20% Floor. 54W T5HO lamp rated at 4400 lumens at 25°C. 4 pi x4' grid at floor level.

** Footcandles at the floor (horizontal) with Footcandles on the walls (vertical).

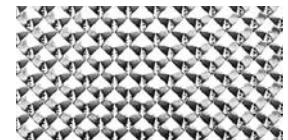
Ordering information T8

Type*	Lamp qty/type	Lamp/luminaire nominal length	Lumin. Catalog Width	Catalog number
	4-T8	48"	17"	FH4C4DXX432UNVSM
	6-T8	48"	23"	FH4C5DXX632UNVSM

* No shielding (accessories ordered separately).



White hinged 9-gauge wireguard adding rigidity to luminaire available as an accessory. (**FH4WG4** for narrow luminaire and **FH4WG5** for wide luminaire. Add **VA** or **VI** for a wire guard with lens.)



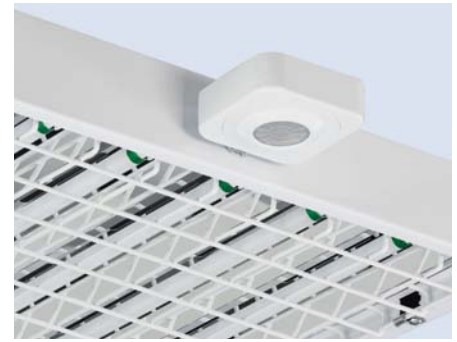
VA = Pattern 12 prismatic lens made of virgin acrylic (.095" nominal). Complete with hinged white wireguard.

VI = Pattern 12 prismatic lens made of virgin acrylic (.125" nominal). Complete with hinged white wireguard.

Smart TriLyte

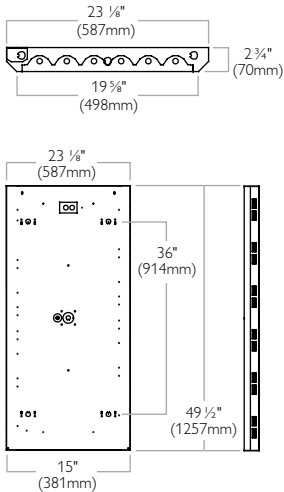
Low / high bay including lamps, ballast and sensor with a 3 year warranty

The Smart TriLyte is the first and only packaged fluorescent low/high bay engineered specifically to correctly address sensor applications lamp cycling in Canada. It delivers optimal performance and is the only occupancy-sensored linear fluorescent low/high bay that carries a complete system warranty on all components including lamps, ballast, sensor and luminaire for 3 years.



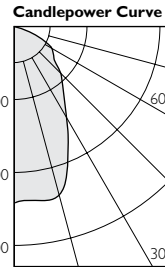
FH4C5DXX654UNVSMML

Wide Body, 6-Lamp T5HO



RCP	C.U.
1	100
2	92
3	85
4	79
5	72
6	67
7	62
8	58
9	53
10	49

Reference data	
Efficiency	90.0%
Spacing ratio	1.2
Electronic ballast	
Input watts (120V)	358.0W
Ballast factor	1.0



Application data*

Luminaire spacing	FC	W/Sq Ft
100' x 12' x 28' Space 20' on center	24/16	1.49
100' x 12' x 28' Space 15' on center	32/22	2.09

* Average footcandles maintained. Total LLF = 0.84.
 Reflectance: 50% Ceiling, 30% Wall, 20% Floor.
 54W T5HO lamp rated at 4400 lumens at 25°C.
 4 pi x 4' grid at floor level.

** Footcandles at the floor (horizontal) with Footcandles on the walls (vertical).

Ordering information T8

Type*	Lamp qty/type	Lamp/luminaire nominal length	Luminaire width	Catalog number
	4-T5HO	48"	17"	FH4C4DXX454UNVSMML
	6-T5HO	48"	23"	FH4C5DXX654UNVSMML

* No shielding (accessories ordered separately).

Numbering logic

FH	4	C	4	D	XX	4	32	UNV	SML
Luminaire type	Luminaire length	Reflector type	Width	Type	Shielding/cord	Lamp qty in a luminaire cross-section	Lamp/Type	Voltage	Ballast
FH = TriLyte Series	4 = 4' (4 & 6 Lamp) 8 = 8' (4 Lamp only)	C = Contoured Miro IV	4 = 17" (4-lamp only) 5 = 23" (6-lamp only; 4' unit only)	D = Downlight	XX = No Shielding X3 = No shielding, 3' cord, twist lock plug (single switching) X6 = No shielding, 6' cord, twist lock plug (single switching for 4 lamps or less; double switching for 6 lamps) X7 = No shielding, 6' cord, no plug (double switching)	4 = 4 Lamps 6 = 6 Lamps	32 = T8 32W 54 = T5HO 54W	120 = 120V 277 = 277V UNV = 120-277V	SML = Smart Lighting (Philips Alto or Alto II 841 lamps, Philips Advance elect. P.S. ballast and LampMaximizer sensor.) Bulk Pack.



TriLyte Nordik

Fluorescent high bay for cold environments

The TriLyte Nordik is designed to achieve the same level output at -18°C as a regular fluorescent high bay at 25°C ambient temperature. With the TriLyte Nordik, you benefit of the energy savings, high color rendering and very low lumen depreciation that were reserved to standard ambient temperature, making it perfect for applications such as cold storage.

Features

- The TriLyte Nordik is designed for refrigerated environments
- Candlelight relative output 86.2% at -18°C when ordered with Philips Lightolier supplied amalgam lamps (CRI of 4100K)
- Ideal for temperatures between -18°C and 5°C when ordered with Philips Lightolier recommended T5HO amalgam lamps. For ambient temperatures of 5°C to 55°C, use regular TriLyte
- **Body:** One-piece post painted steel housing for superior strength and able to withstand the harshest environments. Smooth and installation-friendly corners
- **Shielding:** Full gasket sealed Door frame standard with clear acrylic lens (0.12" nominal thickness) and spring latch design for easy tool less access to the lamp compartment . Polycarbonate lens also available. Wireguard N/A
- **Reflector:** Contoured Miro IV reflector offers optimum performance and 95% reflectivity
- **Mounting:** Surface or chain

Options & accessories

Ballast: Specify voltage (120, 277 or UNV, 347) and add suffix, e.g. **UNVPV**.

Ballast type	<10THD
Elect. P.S. T5HO, (2) 2-Lamp	PG
Elect. P.S. T5HO, (1) 4-Lamp	PV
Elect. P.S. T5HO, (1) 4-Lamp & (1) 2-Lamp one 4-Lamp for 1, 2, 5, & 6 and one 2-Lamp for 3 & 4	P6
Elect. P.S. T5HO, (2) 3-Lamp one 3-Lamp for 1, 3, & 5 and one 3-Lamp for 2, 4, & 6	P7

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory. Emergency pack N/A.

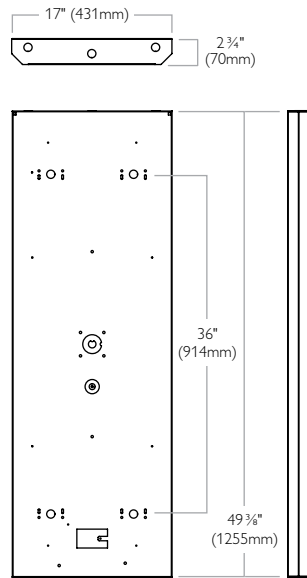
Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Chain hanger kit: 24" chain suspension kit. 2 kits required per luminaire. Order catalog no. **EE9HC**.

Lamps: Philips Lightolier strongly recommends purchasing the fixture complete with special amalgam lamps to insure maximum light output. Suffix: **6**.

Shielding: For clear polycarbonate lens instead of clear acrylic lens, replace **GI** by **PX**.

FHC4C4DGI454UNVPV6



RCP	C.U.
1	96
2	88
3	82
4	76
5	70
6	66
7	60
8	56
9	52
10	48

Reference data	
Efficiency	86.2%
Spacing ratio	1.2
Electronic ballast	
Input watts (120V)	234W
Ballast factor	1.0

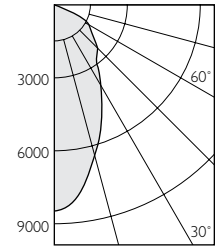
Application data*

Luminaire spacing	FC	W/Sq Ft
300' x 400' x 25' Space 17' on center	50	0.81
120' x 80' x 28' Space 16' on center	55	0.98
300' x 400' x 25' Space 14' on center	75	1.15

* Average footcandles maintained. Total LLF = 0.84.
Reflectance: 80% Ceiling, 50% Wall, 20% Floor.
Lamps rated at 4400 lumens.

Narrow Body

Candlepower Curve



Ordering information

Type*	Size	Lamp qty/type	Catalog no.
Clear Acrylic Lens with Lamps	17" x 49 3/8"	4-T5HO	FHC4C4DGI454UNVPV6

* No shielding (accessories ordered separately).

Example	FHC4C4DGI454	UNV	PV	6
	Basic catalog no. TriLyte Nordik	Voltage 120 = 120V 277 = 277V UNV= 120-277V	Ballast See page 4.182	Options See page 4.182 Add appropriate suffix. to Catalog number. 6 = Amalgam lamps (recommended).



Spring latch design for easy, toolless access to the lamp compartment.

TriLyte Nordik

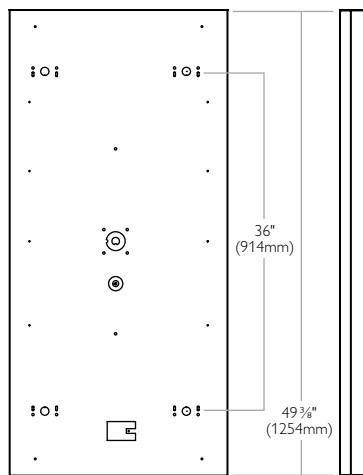
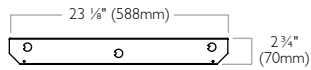
Fluorescent high bay for cold environments

The TriLyte Nordik is designed to achieve the same level output at -18°C than a regular fluorescent high bay at 25°C ambient temperature. With the TriLyte Nordik, you benefit from energy savings, high color rendering and very low lumen depreciation that were reserved for standard ambient temperature, making it perfect for applications such as cold storage.



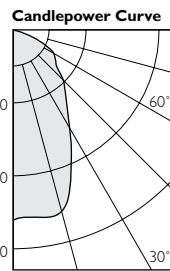
FHC4C5DGI654UNVP66

Wide Body



RCP	C.U.
1	100
2	92
3	85
4	79
5	72
6	67
7	62
8	58
9	53
10	49

Reference data	
Efficiency	90.0%
Spacing ratio	1.2
Electronic ballast	
Input watts (120V)	358.0W
Ballast factor	1.00



Application data*

Luminaire spacing	FC	W/Sq Ft	
120' x 80' x 28' Space	240' on center	80	1.5
120' x 80' x 28' Space	20' on center	50	1.9
300' x 400' x 25' Space	18' on center	75	1.1
300' x 400' x 25' Space**	22' on center	50	0.76

* Average footcandles maintained. Total LLF = 0.84.
 Reflectance: 80% Ceiling, 50% Wall, 20% Floor.
 Lamps rated at 4400 lumens.
 **Idem with 30% wall reflectance.

Ordering information

Type*	Size	Lamp qty/type	Catalog no.
Clear Acrylic Lens with Lamps	23" x 49 3/8"	6-T5HO	FHC4C5DGI654UNVP66

* No shielding (accessories ordered separately).

Example

FHC4C5DGI454 Basic catalog no. TriLyte Nordik	UNV Voltage 120 = 120V 277 = 277V UNV = 120-277V	P6 Ballast See previous page	6 Options See previous page Add appropriate suffix. to Catalog number. 6 = Amalgam lamps (recommended).
------------------------------------------------------------	---------------------------------------------------------------------	-------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------



Gymlyster

Resistant high bay dedicated to gymnasiums

Gymlyster is a one-piece body made of 22-gauge steel and a strong wireguard, with or without lens, fully dedicated to gymnasiums and other recreative environments.

FH4W4DWW454UNVCV

Narrow Body, 6-Lamp T5HO

Features

- Flat white reflector and wireguard as standard. (Choice of Miro IV flat reflector also available)
- Sturdy one-piece post-painted housing providing clean, smooth, installation-friendly corners
- Side-mounted ballast for low 2-3/4" profile
- 2-, 3-, 4- and 8-lamp (4-lamp in tandem) T8 or T5HO (cross-section view)
- Available in 4' and 8' lengths
- Choice of stem, surface or chain mounting with installation up to 45'
- Accepts emergency battery packs

Options & accessories

Ballast: Specify voltage (120, 277 or UNV, 347) and add suffix, e.g. **UNVPV**.

Ballast type

<10THD

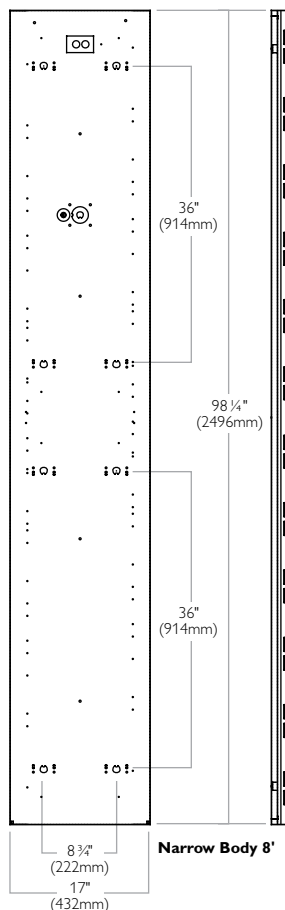
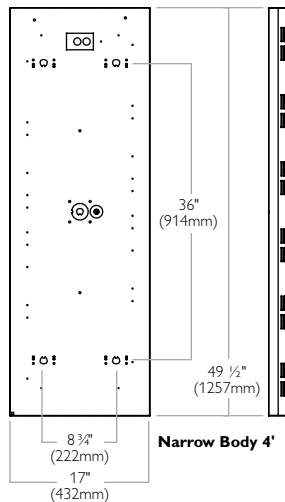
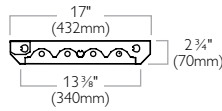
Elect. I.S. T8, 4 LPB	H4
Elect. I.S. T8, (1) 4 LPB & (1) 2 LPB	H5
Elect. I.S. T8, (2) 4 LPB one for outside and one for inside lamps	H7
Elect. P.R.S. T5/T5HO, 1 or 2 LPB	PG
Elect. P.R.S. T5/T5HO, 1 or 3 LPB	PU
Elect. P.R.S. T5/T5HO, 1 or 4 LPB	PV
Elect. P.S. T5/T5HO, (1) 4 LPB & (1) 2 LPB one 4 LPB for outside lamps and one 2 LPB for inside lamps	P6
Elect. P.S. T5/T5HO, (1) 3 LPB & (1) 3 LPB one 3 LPB for lamps 1, 3, & 5 and one 3 LPB for lamps 2, 4, & 6	P7
Elect. P.S. T5/T5HO, (2) 4 LPB one for outside and one for inside lamps	P8

LPB = Number of lamps per ballast

Emergency/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Lamps: not included except upon request. For T5HO lamps (8/41K) installed, CFI choice of brand, add suffix **6**. Consult your Philips Lightolier representative for additional options.



RCP	C.U.
1	96
2	88
3	82
4	76
5	70
6	66
7	60
8	56
9	52
10	48

Reference data

Efficiency	86.2%
Spacing ratio	1.2

Electronic ballast

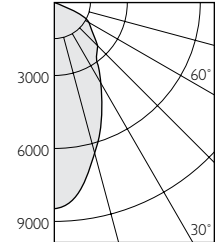
Input watts (120V)	234W
Ballast factor	1.0

Application data*

Luminaire spacing	FC	W/Sq Ft
300' x 400' x 25' Space 17' on center	50	0.8
120' x 80' x 28' Space 16' on center	55	1.0
300' x 400' x 25' Space 14' on center	75	1.2

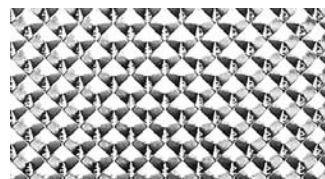
* Average footcandles maintained. Total LLF = 0.84.
Reflectance = 80% Ceiling, 50% Wall, 20% Floor.
54W T5HO lamp rated at 4400 lumens at 25°C.

Candlepower Curve



White hinged 9-gauge wireguard adding rigidity to luminaire available as an accessory.

FH4WG4 for narrow luminaire. Add **VA** or **VI** for a wire guard with lens.



VI Pattern
12 prismatic lens made of virgin acrylic (.125" nominal). Complete with hinged white wireguard.

Gymlyter

Resistant high bay dedicated to gymnasiums

Gymlyter is a one-piece body made of 22-gauge steel and a strong wireguard, with or without lens, fully dedicated to gymnasiums and other recreative environments.



Ordering information for T5

Type	Length	Lamp qty/type	Lamp/luminaire nominal length	Catalog no.
Prismatic Lens with Wireguard	17"	4-T5HO	48"	FH4W4DVI454
		6-T5HO	96" tandem	FH8W4DVI354
		8-T5HO	96" tandem	FH8W4DVI454
White Wireguard with No Lens	17"	4-T5HO	48"	FH4W4DWW454
		6-T5HO	96" tandem	FH8W4DWW354
		8-T5HO	96" tandem	FH8W4DWW454

Ordering information for T8

Type	Length	Lamp qty/type	Lamp/luminaire nominal length	Catalog no.
Prismatic Lens (VI) with Wireguard	17"	2-T8	48"	FH4W4DVI232
		3-T8	48"	FH4W4DVI332
		4-T8	48"	FH4W4DVI432
		6-T8	96" tandem	FH8W4DVI332
		8-T8	96" tandem	FH8W4DVI432
White Wireguard with No Lens	17"	2-T8	48"	FH4W4DWW232
		3-T8	48"	FH4W4DWW332
		4-T8	48"	FH4W4DWW432
		6-T8	96" tandem	FH8W4DWW332
		8-T8	96" tandem	FH8W4DWW432

Numbering logic

FH	4	W	4	D	WW	4	54	UNV	PV	6
Lumin. Type	Lumin. Length	Reflector type	Width	Type	Lens/shielding	Lamp qty in a luminaire cross-section	Lamp/type	Voltage	Ballast	Options
FH	4 = 4' 8 = 8'	W = Flat Design White Reflector S = Flat Design Specular Reflector	4 = 17"	D = Downlight	VI = Prismatic Lens VI with Wireguard WW = Wireguard, White with No Lens	2 = 2 Lamps 3 = 3 Lamps 4 = 4 Lamps 8 = 4 Lamps in tandem (8 total)	28 = T5 28W 32 = T8 32W 54 = T5HO 54W	120 = 120V 277 = 277V UNV = 120-277V	See prev. page	See previous page Add appropriate suffix to Catalog number



Cleanguard Class 10,000 CleanRoom 2' x 4' & 2' x 2'

Recessed fluorescent luminaire

Features

- Meets requirements for Federal Standard 209E Class 10,000 & 100,000 Clean Room tested by Independent Lab.
- UL and ULC Listed for wet or damp locations for covered ceiling use.
- Fits 15/16" to 1" wide face grid ceiling systems or flanged for drywall type ceilings. Contractor responsible for sealing fixture to ceiling.
- Full perimeter gasketing (closed cell Neoprene) between Door frame and lens, between housing and Door frame.
- Ends sealed to body.
- .125 pattern 12 lens installed smooth side down.
- Door frame is post painted, baked acrylic enamel.
- Hemmed over side rails for maximum safety.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Flat and regressed aluminum doors available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	S0*
1-3 Lamp Elec T8	H3* , P3**	O3*
1-4 Lamp Elect T8	H4* , P4**	O4*
1-3 Lamp TT5 40 Watt	IB* , PR**	SB*
Electronic TT5 40 Watt	I3*	X3*

* Instant start
** Program start

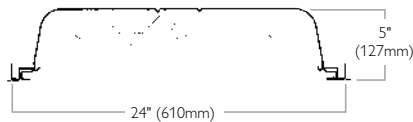
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Continuous row installation: For **F** type fixtures, half-width flanges are required between fixtures. Catalog no.: **2FCTrim** for each joint.

Plaster frame: For **F** type troffers, order plaster frames separately. Catalog no.: **PF24** for 2'x4' troffer; **PF22** for 2'x2' troffer.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

CXS2GFSVI332UNVH3



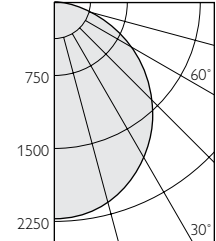
Reference data

Efficiency 67.9%
Spacing ratio 1.2

Electronic ballast

Input watts (120V) 108.7W
LER FL 73.2

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Flat Aluminum Door	2' x 4'	2-T8	CXS2GFAVI232	CXS2FFFAVI232
		3-T8	CXS2GFAVI332	CXS2FFFAVI332
		4-T8	CXS2GFAVI432	CXS2FFFAVI432
Flat Steel Door	2' x 4'	2-T8	CXS2GFSVI232	CXS2FFFSVI232
		3-T8	CXS2GFSVI332	CXS2FFFSVI332
		4-T8	CXS2GFSVI432	CXS2FFFSVI432
Regressed Aluminum Door	2' x 4'	2-T8	CXS2GRAVI232	CXS2FFRAVI232
		3-T8	CXS2GRAVI332	CXS2FFRAVI332
		4-T8	CXS2GRAVI432	CXS2FFRAVI432

Example **CXS2GFSVI332** **UNV** **H3** **A**

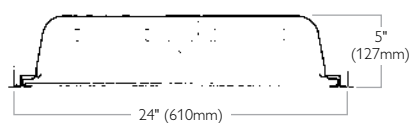
Cleanguard Wet location
Class 10,000 or 100,000 Clean Room

Voltage
120 = 120V
277 = 277V
UNV = 120-277V (Elec. T8 Ballast only)

Ballast
See page 4.186

Options
See page 4.186 and page 4.130

CXS2GFSVI26UUNVHI



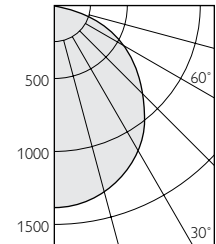
Reference data

Efficiency 63.1%
Spacing ratio 1.2

Electronic ballast

Input watts (120V) 53.7W
LER FL 56.0

Candlepower Curve



Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Flat Aluminum Door	2' x 2'	2-6" T8	CXS2GFAVI26U	CXS2FFFAVI26U
		3-TT5	CXS2GFAVI3FT	CXS2FFFAVI3FT
		3-1.6"U T8	CXS2GFAVI32U	CXS2FFFAVI32U
Flat Steel Door	2' x 2'	2-6" T8	CXS2GFSVI26U	CXS2FFFSVI26U
		3-TT5	CXS2GFSVI3FT	CXS2FFFSVI3FT
		3-1.6"U T8	CXS2GFSVI32U	CXS2FFFSVI32U
Regressed Aluminum Door	2' x 2'	2-6" T8	CXS2GRAVI26U	CXS2FFRAVI26U
		3-TT5	CXS2GRAVI3FT	CXS2FFRAVI3FT
		3-1.6"U T8	CXS2GRAVI32U	CXS2FFRAVI32U

Example **CXS2GFSVI26U** **UNV** **HI** **A**

Cleanguard Wet location
Class 10,000 or 100,000 Clean Room

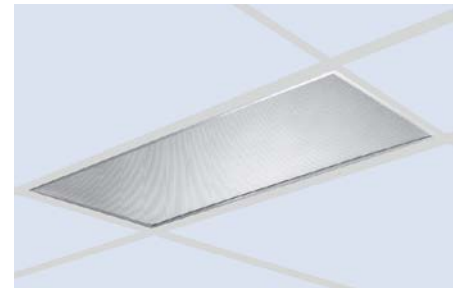
Voltage
120 = 120V
277 = 277V
UNV = 120-277V (Elec. T8 or TT5 Ballast only)

Ballast
See page 4.186

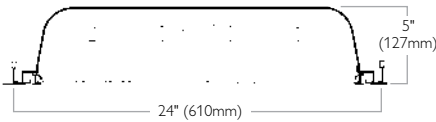
Options
See page 4.186 and page 4.130

Cleanguard Class 1,000/10,000 CleanRoom 2' x 4' & 2' x 2'

Recessed fluorescent luminaire 2' x 2', 2' x 4' - 1 1/2" wide T-bar



CXS2WFAVI26UUNVHI



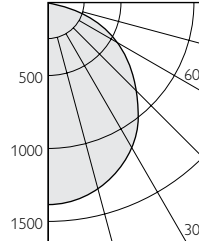
Reference data

Efficiency	63.1%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	53.7W
LER FL	56.0

Candlepower Curve



Features

- Meets requirements for Federal Standard 209E Class 1,000/10,000 & 100,000 Clean Room tested by Independent Lab.
- UL and ULc Listed for wet or damp locations for covered ceiling use.
- Fits 15/16" to 1 1/2" wide face grid ceiling systems. Contractor responsible for sealing fixture to ceiling.
- Full perimeter gasketing (closed cell Neoprene) between Door frame and lens, closed cell ethafoam gasketing between housing and Door frame.
- Ends sealed to body.
- .125 pattern 12 lens installed smooth side down.
- Door frame is post painted, baked acrylic enamel.
- Hemmed over side rails for maximum safety.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Flat extruded aluminum door.

Ordering information

Type	Size	Lamp qty-type	5/16" to 1 1/2" Wide face T-Grid
Flat Aluminum Door	2' x 2'	2-6" T8 3-TT5 3-1.6" UT8	CXS2WFAVI26U CXS2WFAVI3FT CXS2WFAVI32U

Example **CXS2WFAVI26U** **UNV** **HI** **A**

Cleanguard Wet location
Class 1,000, 10,000 or 100,000 Clean Room

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 or TT5 Ballast only)

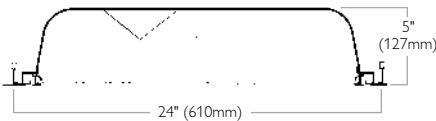
Ballast
See page 4.187

Options
See page 4.187 and page 4.130

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**

CXS2WFAVI332UNVH3



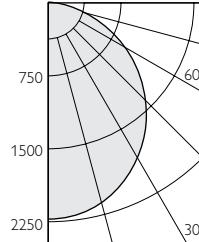
Reference data

Efficiency	67.9%
Spacing ratio	1.2

Electronic ballast

Input watts (120V)	108.7W
LER FL	73.2

Candlepower Curve



Ballast type

	<10THD	<20THD
Electronic T8	HI* , P2**	S0*
1-3 Lamp Elec T8	H3* , P3**	03*
1-4 Lamp Elect T8	H4* , P4**	04*
1-3 Lamp TT5 40 Watt	IB* , PR**	SB*
Electronic TT5 40 Watt	I3*	X3*

* Instant start

** Program start

Ordering information

Type	Size	Lamp qty-type	5/16" to 1 1/2" Wide face T-Grid
Flat Aluminum Door	2' x 2'	2-T8 3-T8 4-T8	CXS2WFAVI232 CXS2WFAVI332 CXS2WFAVI432

Example **CXS2WFAVI332** **UNV** **H3** **A**

Cleanguard Wet location
Class 1,000, 10,000 or 100,000 Clean Room

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

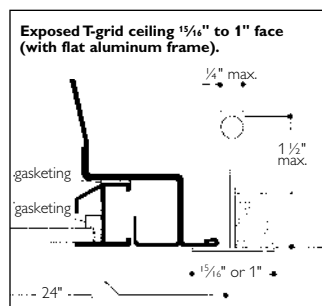
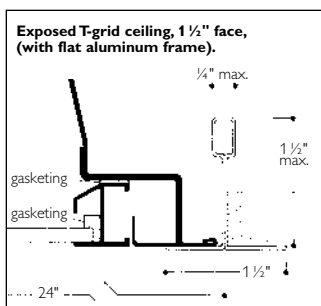
Ballast
See page 4.187

Options
See page 4.187 and page 4.130

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Mounting Methods





Hazardline

Vapor/dust/wet locations enclosed luminaire

This luminaire is suitable for indoor and outdoor application in three areas. Class I Div. 2 locations are those in which flammable gases, vapors or liquids are handled in closed containers from which any escape of hazardous materials are accidental. Class II locations are hazardous because of the presence of combustible dust. Class III locations are hazardous because of the presence of easily ignitable fibers or flyings. Hazardline, additionally has a wet location rating for use indoors.

Features

- Same fixture meets Class I, II, III and Wet Location requirements.
- UL-Listed Class I, Division 2, Groups A, B, C and D locations.
- UL-Listed Class II, Division 1 and 2, Groups F and G and Class III, Division 1 and 2 locations.
- UL Listed for wet locations.
- Non-corrosive fiberglass reinforced polyester composite body suitable (T8 or T12RS) for 40°C ambient temperature.
- Meets UL 844 static discharge requirements.
- Meets UL 746C impact test requirements.
- Meets UL 94-5VA fire rating.
- Stainless steel, 16 gauge steel door with 3/16" tempered glass lens.
- Stainless spring steel toggle clamps to secure lens door frame.
- One-piece silicone gasketing.

Options & accessories [page 4.217](#)

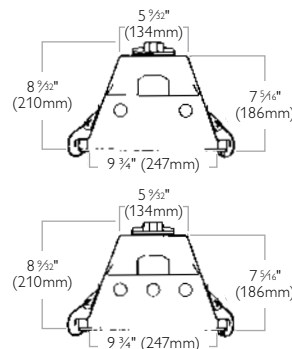
Ballast: Specify voltage (120, 277) and type and add as suffix, e.g. **HSCXT232UNVHI**

Ballast type	<10THD	<20THD
1-2 Lamp Elec T8	HI*	S0*
1-3 Lamp Elec T8	H3*	O3*

* Instant start

Electrical/wiring options: For special wiring, fusing, consult factory.

HSCXT232120SO



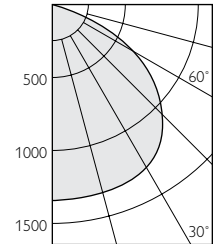
Reference data

Efficiency	72.7%
Spacing ratio	1.0

Electronic ballast

Input watts (120V)	62.0W
Ballast factor	0.88

Candlepower Curve



Coefficients of utilization

Room Cavity Ratio	% wall reflectance			
	70	50	30	
1	78	75	72	
2	72	67	62	
3	66	59	54	
4	60	53	47	
5	55	46	40	
6	51	42	35	
7	47	37	31	
8	43	33	27	
9	39	30	24	
10	36	27	21	

20% of floor and 80% of ceiling effective cavity reflectance

Application data*

Luminaire spacing	FC	W/Sq Ft
50' x 70' x 12' Space	51	0.9
8' x 8' (64 sq ft/fixture)		
12' x 16' x 8.5' Space	54	1.2
6' x 8' (48 sq ft/fixture)		
8' x 8' x 8.5' Cubicle/60" Partition	54	0.9
30' x 30' (64 sq ft/fixture)		

* Average footcandles maintained Total LLF=.75
Reflectance: 80% Ceiling, 50% Wall, 20% Floor
RE835 lamp rated at 3000 lumens

Ordering information

Type	Class/division	Fixture length	Lamp qty/type	Catalog no.
Vapor-tight	Class I	53"	2-T8	HSCXT232
	Division 2			
Enclosed Industrial Fluorescent	Dust-tight	53"	3-T8	HSCXT332
	Class II/III			
	Division 1			
	Division 2			
	Wet-Location			

*800 MA HO fixtures are standard with -20°F ballasts

*Consult factory for HO units.

Example	HSCXT232	120	SO	
	Hazardline Vapor/Dust/Wet Locations Enclosed Luminaire	Voltage 120 = 120V 277 = 277V UNV = 120-277V	Ballast See page 4.188	Options See page 4.188 and page 4.217

Hazardline

Vapor/dust/wet locations enclosed luminaire

This luminaire is suitable for indoor and outdoor application in three areas. Class I Div. 2 locations are those in which flammable gases, vapors or liquids are handled in closed containers from which any escape of hazardous materials are accidental. Class II locations are hazardous because of the presence of combustible dust. Class III locations are hazardous because of the presence of easily ignitable fibers or flyings. Hazardline, additionally has a wet location rating for use indoors.

Thermal Performance of HSCXT Fixtures*

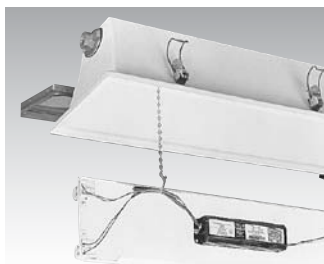
Ordering information

Lamp qty/type	Ambient temp. °C	"T" Numbers	Fixture Temp.*	Catalog no.
2-T8	40	T-4A	120°C (248°F)	HSCXT232
3-T8	40	T-4A	120°C (248°F)	HSCXT332

*800 MA HO fixtures are standard with -20°F ballasts

*Consult factory for HO units.

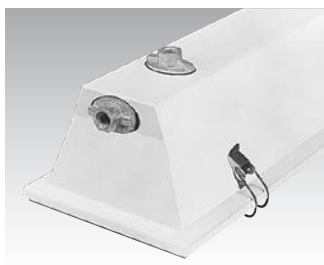
Features



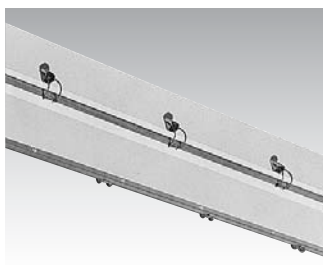
Hi-temp power channel



Heavy-duty hinged stainless steel door



Top/end suspension hubs

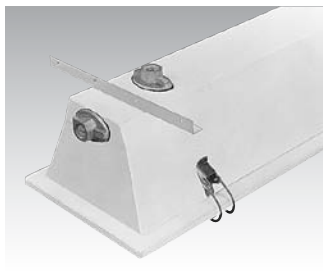


Class I/Division 2 construction

Options



45° Adjustable quadrant brackets **NKH45**



Top-mount angle-bars **HACM CSP**



Features

The following hazardous location definitions are excerpted from Article 500 of the 1990 National Electrical Code

HSCXT Series meets the following classifications

Class I, Division 2 locations

(a) Class I, Division 2 location is a location (1) in which volatile flammable liquids or flammable gases are handled, processed, or used, but in which the liquids, vapors, or gases will normally be confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown of such containers or systems, or in case of abnormal operation of equipment.

Class II locations

Class II locations are those that are hazardous because of the presence of combustible dust.

(a) Class II, Division 1. A Class II, Division 1 location is a location: (1) which combustible dust is in the air under normal operating conditions, in quantities sufficient to produce explosive or ignitable mixtures; or (2) where mechanical failure or abnormal operation of machinery or equipment might cause such explosive or ignitable mixtures to be produced, and might also provide a source of ignition through simultaneous failure of electric equipment, operation of protection devices, or from other causes; or (3) in which combustible dusts of an electrically conductive nature may be present in hazardous quantities.

(b) Class II, Division 2. A Class II, Division 2 location is a location where combustible dust is not normally in the air in quantities sufficient to produce explosive or ignitable mixtures, and dust accumulations are normally insufficient to interfere with the normal operation of electrical equipment or other apparatus, but combustible dust may be in suspension in the air as a result of infrequent malfunctioning of handling or processing equipment and where combustible dust accumulations on, in, or in the vicinity of the electrical equipment may be sufficient to interfere with the safe dissipation of heat from electrical equipment or may be ignitable by abnormal operation or failure of electrical equipment.

Class III locations

Class III locations are those that are hazardous because of the presence of easily ignitable fibers or flyings, but in which such fibers or flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.

(a) Class III, Division 1. A Class III, Division 1 location is a location in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured, or used.

(b) Class III, Division 2. A Class III, Division 2 location is a location in which easily ignitable fibers are stored or handled.



Sealatron

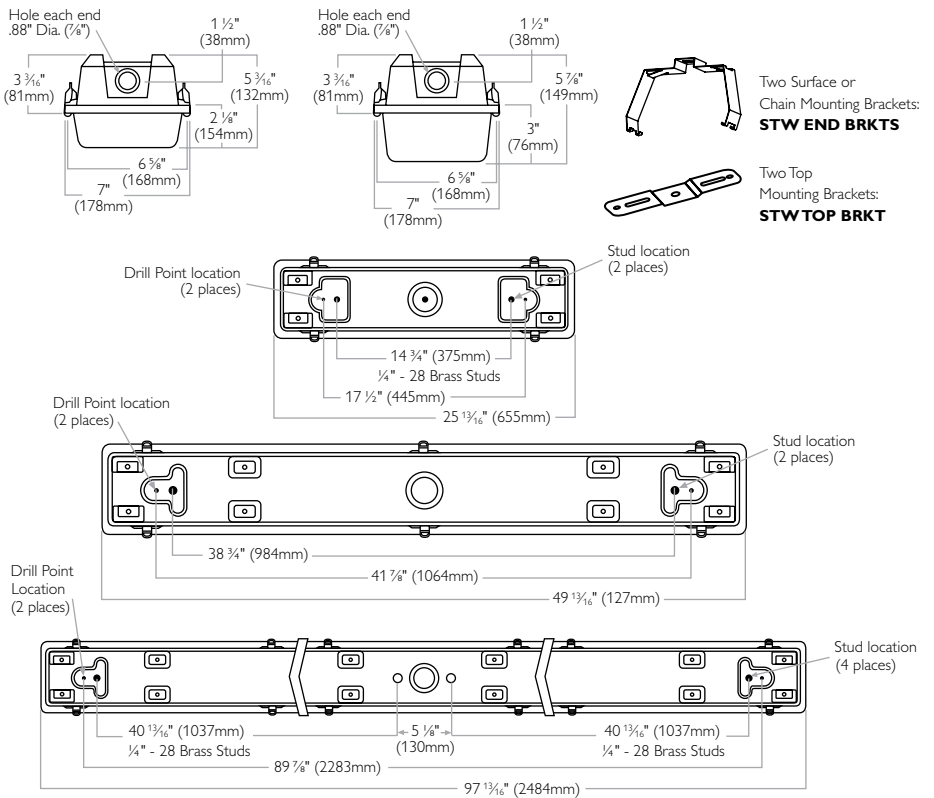
Wet location enclosed industrial luminaire

The Sealatron is an enclosed industrial luminaire rated for wet locations with an IP67 rating

ST4WA232120SO

Features

- Wet Location-Areas of high humidity, water vapor, rain, incidental water spray, or other non-corrosive or non-flammable liquid. (UL-Listed)
- NSF Certified for Non-Food Zone installations.
- IP67 rating.
- Acceptable for outdoor as well as indoor installations.
- One-piece impact resistant, non-conductive, non-corrosive housing, reinforced polyester fiberglass housing.
- Smooth exterior surface for easy cleaning.
- Lighting channel has high reflectance baked white enamel finish.
- Two gasketed threaded (1/2" trade size) wet location hubs installed on ends.
- High impact DR acrylic molded lens.
- Crepe pattern inner surface lens.
- Continuous, compressible, closed-cell neoprene gasket bonded to housing.
- ABS lock-tight plastic molded cam-action tension latches.
- K.O.'s provided throughout for easy access.
- Can be surface (wall/ceiling) or suspended mounted unless otherwise specified.
- Mounting brackets available. Order separately.



Options & accessories

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **ST4WA232UNVHI**

Ballast type	SS	
	<10THD	<20THD
Electronic T12 (HO only)		
Electronic T8 H0	P2	SO
Electronic T8	HI*	SO*
1-4 Lamp Electronic T8	H4*	04*
Electronic T5 Instant S (28W)	PI	
Electronic T5 Program S	PG	
1-4 Lamp Electronic T5 (54W)	PV	

* Instant start Standard

Cold weather ballasts: T12 HO lamped fixtures are standard with -20°F ballasts. To specify cold weather (0°F) ballasts for RS or T8 fixtures. Suffix: **CW**.

Water tight kits: One installed each end of fixture. For additional kits, order Catalog no.: **STW-DC2**.

Electrical/wiring options: Consult factory.

Radio interference filter: 120 or 277 volt, 50 or 60 Hz. One per fixture. Suffix: **R**. One per ballast. Suffix: **B**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Top mounting bracket: Order Catalog no.: **STW TOP BRKT**.

Ordering information

Type	Size	Lamp length	Lamp qty-type	Catalog no.
STW Wet Location Enclosed Industrial	7 x 25 1/16"	24"	1-T8	ST4WA117
		24"	1-T8	ST4WA217
	7 x 49 1/16"	48"	1-T8	ST4WA132
		46"	1-T5	ST4WA128
		46"	1-T5HO	ST4WA154
		48"	2-T8	ST4WA232
		46"	2-T5	ST4WA228
		46"	2-T5HO	ST4WA254
	7 x 97 1/16"	48"	1-T8*	ST8WA132
		46"	1-T5*	ST8WA128
		46"	1-T5HO*	ST8WA154
		48"	2-T8**	ST8WA232
46"		2-T5**	ST8WA228	
46"		2-T5HO**	ST8WA254	
	96"	2-T8SL	ST8WA259SL	
	96"	2-T8HO	ST8WA286HO	
	96"	2-T12HO	ST8WA296HO	

*2 lamps total, (in tandem)
**4 lamps total, (in tandem)

Example

ST4WA232
Sealatron
Wet Location
Enclosed Luminaire

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V

HI
Ballast
See page 4.190

A
Options
See page 4.190

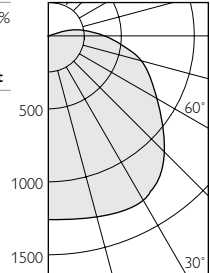
Reference data

Efficiency 85.10%
Spacing ratio 1.5

Electronic ballast

I.W. (120V) 54W
Ballast factor 0.88

Candlepower Curve



Smooth virgin acrylic lens opens easily and hinges from either side for easy maintenance.



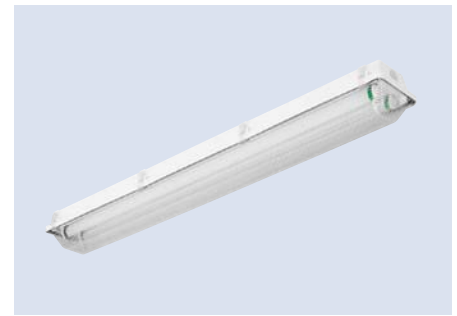
Precision molded pre-formed knockouts for stem, chain or surface mounting.

Note: Sealatron luminaire also available in LED

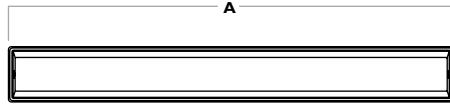
Sealatron IP low profile

Wet location enclosed industrial luminaire

The Sealatron IP Low Profile enclosed Industrial is a wet location listed luminaire that incorporates a low profile housing design, high impact lenses and IP ratings.



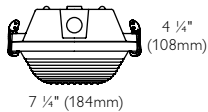
IP4WP232UNVHI



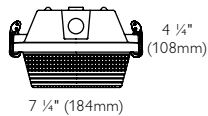
A (Overall Length)

2' models 27 11/16" (703mm)
4' models 51 9/16" (1310mm)
8' models 100" (2540mm)

2 and 3 lamp (1 lamp 8')

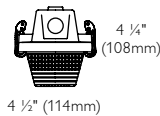
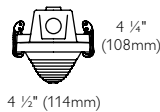


Ribbed Lenses (R, A)



Prismatic Injected Molded Lens (P)

1 lamp (except 8')



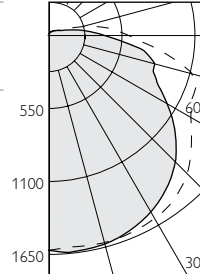
Reference data

Efficiency 66.9%
Spacing ratio 1.3

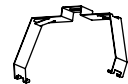
Electronic ballast

Input watts (120V) 55W

Candlepower Curve



Mounting Bracket (included)



Features

- IP65 rating for ribbed lenses and IP67 rating for prismatic lenses.
- Acceptable for outdoor as well as indoor installations.
- Wet Location Areas of high humidity, water vapor, rain, incidental water spray, or other non-corrosive or non-flammable liquid.
- Also suitable for damp locations.
- Non-conductive, non-corrosive housing.
- Smooth exterior surface for easy cleaning.
- Molded fiberglass 5V-A housing.
- Choice of ribbed or injection molded prismatic diffusers.
- Continuous poured gasket.
- Polycarbonate cam action latches are standard.
- Ballast is retained by a snap-on gear tray in lieu of channel, reducing weight.
- Two snap-on stainless steel mounting brackets included, can be installed anywhere along housing (except at latches).

Options & accessories

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **IP4WP232UNVHI**

Ordering information

Size	Family	Lamps X section	Lamp fixture	Available lenses	Lamp type	Length in. (mm)	Width in. (mm)	Height in. (mm)
2'	IP	1	1	R, P	14, 17, 24HO	27 11/16" (703)	4 1/2" (114)	4 1/4" (108)
		2	2				7 1/4" (184)	
4'	IP	1	1	R, P	28, 32, 54HO	51 9/16" (1310)	4 1/2" (114)	4 1/4" (108)
		2	2	A, R, P	28, 32, 54HO		7 1/4" (184)	
		3	3	A, R, P	28, 32, 54HO		7 1/4" (184)	
8'	IP	1	2		28, 32, 54HO	100" (2540)	7 1/4" (184)	4 1/4" (108)
		2	4	A	28, 32, 54HO			
		3	6		28, 32			

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
1 - 3 Lamp Electronic T8	H3*	03*
1 - 4 Lamp Electronic T8	H4*	04*
2 - 3 Lamp Electronic T8	H6*	
1 - 4 Lamp or 1 - 4 Lamp Elect T8	H5*	
Electronic T5 (28W/54W)	PG**	
1 - 3 Lamp Electronic T5 (54W)	PU**	

* Instant start

** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming options, consult factory.

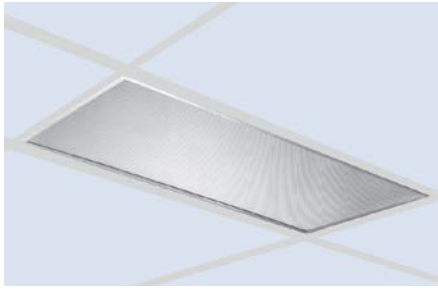
Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

Example	IP	4	W	A	2	32	UNV	HI	A
	Sealatron IP low profile	Fixture length 2 = 2' 4 = 4' 8 = 8'	Fixture width W = 7 1/4" N* = 4 1/2"	Lens shielding type R = Lineal Ribbed (IP65) Polycarbonate A = Lineal Ribbed High Impact Acrylic (IP65) P = Prismatic Injection Polycarbonate	Lamp quantity 1 = 1 Lamp 2 = 2 Lamps 3 = 3 Lamps (28W, 32W, 54W lamp types only)**	Lamp type/ fixture length 14 = T5 (2') 17 = T8 (2') 24 = T5HO (2') 28 = T5 (4') 32 = T8 (4') 54 = T5SO (4')	Voltage 120 = 120V 277 = 277V UNV= 120-277V	Ballast type See page 4.191	Options Add appropriate suffix to catalog

* Narrow housing only available in one lamp, two and four foot fixture sizes.

** 28W, 32W and 54W available in three lamp, four foot fixture sizes.

28W and 32W available in three lamp, eight foot fixture sizes.



Cleanguard wet location

Recessed fluorescent luminaire 2' x 4', 2' x 2' & 1' x 4'

Features

- UL and C-UL Listed for wet or damp locations for covered ceiling use.
- Full perimeter gasketing (closed cell Neoprene) between Door frame and lens, between housing and Door frame.
- Door frame is post painted, baked acrylic enamel.
- 5" deep body for 2x4 and 2x2.
- 81.2% efficient (T8), 2x4 4 lamp.
- 69.0% efficient (T8), 2-6"U.
- 64.6% efficient (T8), 1x4 2 lamp.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips 2x4, 2x2.
- Slimline Door frame with 1000 square inch lens opening on 2x4 door.
- Mitered corner steel lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Flat and regressed aluminum doors available.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	S0*
1-3 Lamp Elec T8	H3* , P3**	03*
1-4 Lamp Elect T8	H4* , P4**	04*
1-3 Lamp TT5 40 Watt	I3*	X3*
Electronic TT5 40 Watt	IB* , PR**	SB*

* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

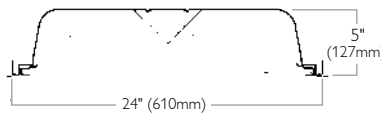
Seismic Hold-Down Clip: For 1'x4' type G, Suffix: **2HD**. Factory installed.

Plaster frame: For **F** type troffers, order plaster frames separately. Catalog no.: **PF24** for 2'x4' troffer; **PF22** for 2'x2' troffer; **PF14** for 1'x4' troffer.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing)

Continuous row installation: For 1'x4' F type fixtures, trim is required between fixtures. Cat. no.: **1FCTrim** For 2'x4' and 2'x2' F type fixtures, trim is required between fixture Cat. no. **S2FCTrim** (One per joint is required).

WES2GFAVA432UNVH4



Reference data

Efficiency 81.2%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 108.7W
LER FL 73.2

Ordering information

Type	Size	Lamp qty-type	Exposed T T-Grid	Flanged for Dry Wall or Plaster
Flat Steel Door	2' x 4'	2-T8	WES2GFSVA232	WES2FFSVA232
		3-T8	WES2GFSVA332	WES2FFSVA332
		4-T8	WES2GFSVA432	WES2FFSVA432
Regressed Aluminum Door	2' x 4'	2-T8	WES2GRAVA232	WES2FRAVA232
		3-T8	WES2GRAVA332	WES2FRAVA332
		4-T8	WES2GRAVA432	WES2FRAVA432
Flat Aluminum Door	2' x 4'	2-T8	WES2GFAVA232	WES2FFAVA232
		3-T8	WES2GFAVA332	WES2FFAVA332
		4-T8	WES2GFAVA432	WES2FFAVA432

Example

WES2GFAVA432 UNV

Cleanguard Wet Location

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V (Elec. T8 Ballast only)

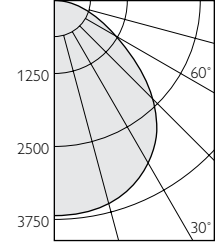
H4

Ballast
See page 4.192

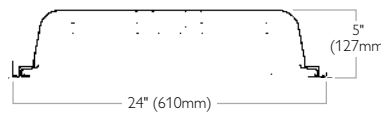
A

Options
See page 4.192 and page 4.130

Candlepower Curve



WES2GFAVA26UUNVHI



Reference data

Efficiency 71.6%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 56.3W
LER FL 58.6

Ordering information

Type	Size	Lamp qty-type	Exposed T T-Grid	Flanged for Dry Wall or Plaster
Flat Steel Door	2' x 2'	2-6" T8	WES2GFSVA26U	WES2FFSVA26U
		3-TT5	WES2GFSVA3FT	WES2FFSVA3FT
		3-1.6"U T8	WES2GFSVA32U	WES2FFSVA32U
Regressed Aluminum Door	2' x 2'	2-6" T8	WES2GRAVA26U	WES2FRAVA26U
		3-TT5	WES2GRAVA3FT	WES2FRAVA3FT
		3-1.6"U T8	WES2GRAVA32U	WES2FRAVA32U
Flat Aluminum Door	2' x 2'	2-6" T8	WES2GFAVA26U	WES2FFAVA26U
		3-TT5	WES2GFAVA3FT	WES2FFAVA3FT
		3-1.6"U T8	WES2GFAVA32U	WES2FFAVA32U

Example

WES2GFAVA26U UNV

Cleanguard Wet Location

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

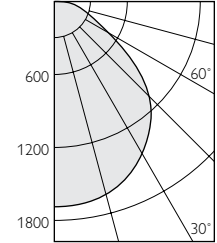
HI

Ballast
See page 4.192

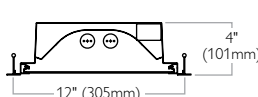
A

Options
See page 4.192 and page 4.130

Candlepower Curve



WES1GFAVA232UNVHI



Reference data

Efficiency 69.0%
Spacing ratio 1.3

Electronic ballast

Input watts (120V) 80.0W
LER FL 48.3

Ordering information

Type	Size	Lamp qty-type	Exposed T T-Grid	Flanged for Dry Wall or Plaster
Flat Steel Door	1' x 4'	2-T8	WES1GFSVA232	WES1FFSVA232
Regressed Alum. Door		2-T8	WES1GRAVA232	WES1FRAVA232
Flat Aluminum Door		2-T8	WES1GFAVA232	WES1FFAVA232

Example

WES1GFAVA232 UNV

Cleanguard Wet Location

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

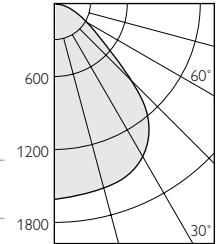
HI

Ballast
See page 4.192

A

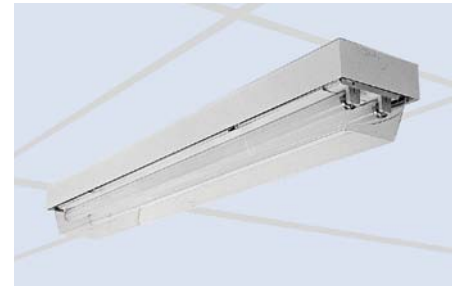
Options
See page 4.192 and page 4.130

Candlepower Curve

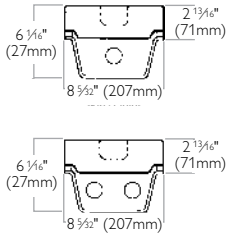


Cleanlite

Damp/wet locations enclosed luminaire



SC4WC232UNVHI

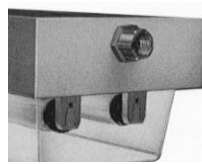


Reference data

Efficiency	79.3%
Spacing ratio	1.6

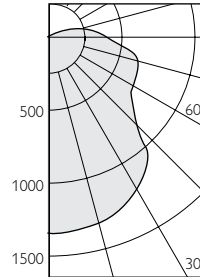
Electronic ballast

Input watts (120V)	53.0W
--------------------	-------



Water-tight hubs

Candlepower Curve



Features

- UL-listed for dry and damp locations.
- UL-listed for wet locations.
- Silicone sealed body (SC4W).
- For industrial or commercial applications.
- Crisp modular design.
- Available in 4' one piece body.
- Continuous closed-cell gasketing at all seal points.
- Smooth one-piece water-clear acrylic lens.
- Lock-tight cam-action latches.
- Water-tight hubs for electrical feed (SC4W).
- Construction meets NYC code requirements.

Ordering information

Type	Size	Lamp length	Lamp qty-type	Catalog no.
Damp Locations	8 3/8" x 50 3/8"	48"	1-T8	SC4DC132
		46"	1-T5	SC4DC128
		46"	1-T5HO	SC4DC154
		48"	2-T8	SC4DC232
		46"	2-T5	SC4DC228
		46"	2-T5HO	SC4DC254
		48"	3-T8	SC4DC332
		46"	3-T5	SC4DC328
		46"	3-T5HO	SC4DC354
Wet Locations	8 3/8" x 50 3/8"	48"	1-T8	SC4WC132
		46"	1-T5	SC4WC128
		46"	1-T5HO	SC4WC154
		48"	2-T8	SC4WC232
		46"	2-T5	SC4WC228
		46"	2-T5HO	SC4WC254
		48"	3-T8	SC4WC332
		46"	3-T5	SC4WC328
		46"	3-T5HO	SC4WC354

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **SC4DC232UNVHI**

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
1 - 3 Lamp Electronic T8	H3*	03*
Electronic T5 Program S	PG	SO*
1 - 3 Lamp Elect T5 (54W)	PU	–

* Instant start Standard

Tamperproof latches: Suffix: **TP**.

Optional lenses: Lexan lenses or DR acrylic lens. Consult factory.

Water tight kits: All fixtures are furnished with one watertight hub kit for top or end conduit entry. Additional water tight kits required for every entry. Catalog no.: **GWHB CSP**. For coupling kits required for continuous row mounting. Catalog no.: **KWCP CSP**

Example	SC4WC232	UNV	HI	TP
	Guardsman	Voltage	Ballast	Options
	Vandal Resistant	120 = 120V	See page 4.193	See page 4.193
	Damp/Wet Locations Enclosed Luminaire	277 = 277V UNV = 120-277V (Elec. T8 Ballast only)		



Guardsman Vandal Resistant

Recessed fluorescent luminaire 2' x 4', 2' x 2' & 1' x 4'

Features

- Excellent for locations where vandal resistance is required.
- Prismatic lens (VL) is 3/16" thick pattern 12, minimum impact strength, 130 foot pounds.
- Full perimeter gasketing (closed cell Neoprene) between Door frame and lens.
- Tamper resistant holt head screws secure lens to housing.
- 5" deep body, 2x2 and 2x4.
- 74.4% efficient (T8), 2x4 4 lamp.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips on 2x2 and 2x4.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- 69.3% efficient (T8), 2x2 2-6"U.
- 62.2% efficient (T8), 1x4 2 lamp.
- Turned up edges for safe handling.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277) and type and add as suffix, e.g. **UNVHI**

Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	S0*
1-3 Lamp Elec T8	H3* , P3**	03*
1-4 Lamp Elect T8	H4* , P4**	04*
1-3 Lamp TT5 40 Watt	I3*	X3*
1 & 2 Lamp TT5 40 Watt	IB* , PR**	SB*

* Instant start
** Program start

Lens: For optional 9/64" thick (**VK**) pattern 12, minimum impact strength, 80 foot pounds, substitute **VL** with **VK** in Catalog no. i.e:GVS2GFSVK432.

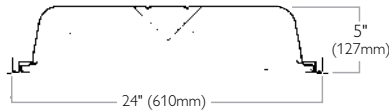
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Seismic hold-down clip: For 1'x4' type **G**, Suffix: **2HD**. Factory installed.

Plaster frame: For **F** type troffers, order plaster frames separately. Catalog no.: **PF24** for 2'x4' troffer; **PF22** for 2'x2' troffer.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

GVS2GFSVL432UNVH4



Reference data

Efficiency	74.4%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	105W
LER FL	69.0

Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Flat Steel Door	2' x 4'	2-T8	GVS2GFSVL232	GVS2FFSVL232
		3-T8	GVS2GFSVL332	GVS2FFSVL332
		4-T8	GVS2GFSVL432	GVS2FFSVL432

Example **GVS2GFSVL432** **UNV** **H4** **A**

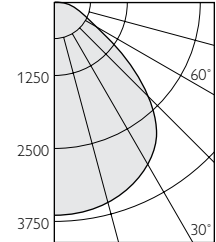
Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

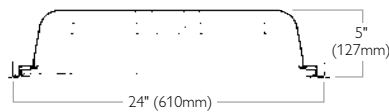
Ballast
See page 4.194

Options
See page 4.194 and page 4.130

Candlepower Curve



GVS2GFSVL26UUNVHI



Reference data

Efficiency	69.3%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.4W
LER FL	58.9

Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Flat Steel Door	2' x 2'	2-6" T8	GVS2GFSVL26U	GVS2FFSVL26U
		3-TT5	GVS2GFSVL3FT	GVS2FFSVL3FT
		3-1.6"U T8	GVS2GFSVL32U	GVS2FFSVL32U

Example **GVS2GFSVL26U** **UNV** **HI** **A**

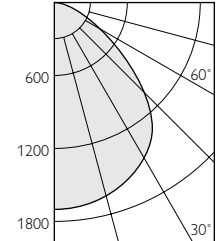
Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

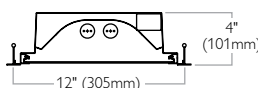
Ballast
See page 4.194

Options
See page 4.194 and page 4.130

Candlepower Curve



GVS1GFSVL232UNVHI



Reference data

Efficiency	62.3%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	80.0W
LER FL	48.3

Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Flat Steel Door	1' x 4'	2-T8	GVS1GFSVL232	GVS1FFSVL232

Example **GVS1GFSVL232** **UNV** **HI** **A**

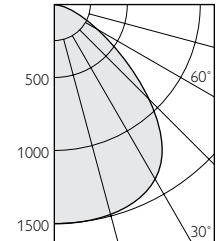
Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast
See page 4.194

Options
See page 4.194 and page 4.130

Candlepower Curve

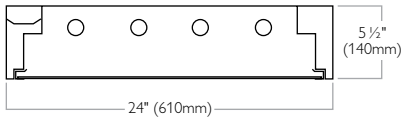


Guardsman Vandal Resistant

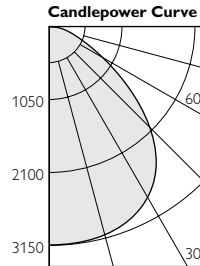
Surface box luminaire 2' x 4', 2' x 2' & 1' x 4'



GVB2SFSVL432UNVH4



Reference data	
Efficiency	65.2%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	13.3W



Ordering information

Type	Size	Lamp qty–Type	Surface box
Flat Steel Door	2' x 4'	2-T8 3-T8 4-T8	GVB2SFSVL232 GVB2SFSVL332 GVB2SFSVL432

Example **GVB2SFSVL432** **UNV** **H4** **A**

Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

Ballast
See page 4.195

Options
See page 4.195 and page 4.130

Features

- Excellent for locations where vandal resistance is required.
- 20 gauge steel body.
- Prismatic lens (VL) is 3/16" thick, pattern 12, minimum impact strength, 130 foot pounds.
- Full perimeter gasketing (closed cell Neoprene) between Door frame and lens.
- Tamper resistant holt head screws secure lens to housing.
- 45° mitered corners (body and Door frame).
- Only 5-1/2" deep.
- 54.9% efficient (2 lamp T8).1x4
- 55.5% efficient (2U lamp T8).
- 65.2% efficient (4 lamp T8).
- Side mounted ballast for cooler operation.
- Fully enclosed wiring.
- Meets NYC Code requirements.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**

Ballast type	<10THD	<20THD
Electronic T8	HI* , P2**	S0*
1-3 Lamp T8	H3* , P3**	03*
1-4 Lamp T8	H4* , P4**	04*
Electronic TT5 40 Watt	IB* , PR**	SB*
1-3 Lamp TT5 40 Watt	I3*	X3*

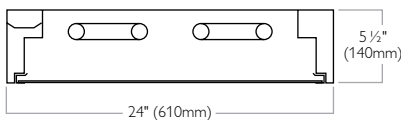
* Instant start
** Program start

Lens: For optional 9/64" thick (**VK**) pattern 12, minimum impact strength 80 foot pounds, substitute **VL** with **VK** in catalog no. ie GVB2SFSVK432

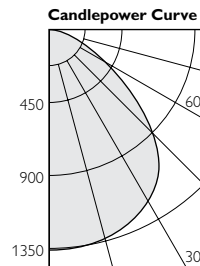
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, or emergency pack, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing)

GVB2SFSVL26UUNVHI



Reference data	
Efficiency	55.5%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	60.7W



Ordering information

Type	Size	Lamp qty–Type	Surface box
Flat Steel Door	2' x 2'	2-6" T8 3-TT5 3-1.6"U T8	GVB2SFSVL26U GVB2SFSVL3FT GVB2SFSVL32U

Example **GVB2SFSVL26U** **UNV** **HI** **A**

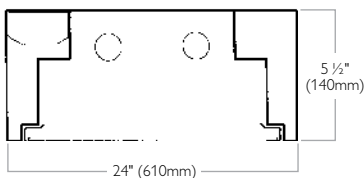
Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

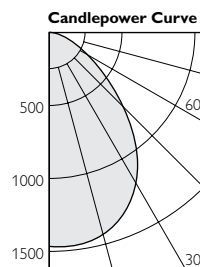
Ballast
See page 4.195

Options
See page 4.195 and page 4.130

GVB1SFSVL232UNVHI



Reference data	
Efficiency	54.9%
Spacing ratio	1.2
Electronic ballast	
Input watts (120V)	55.6W



Ordering information

Type	Size	Lamp qty–Type	Surface box
Flat Steel Door	1' x 4'	2-T8	GVB1SFSVL232

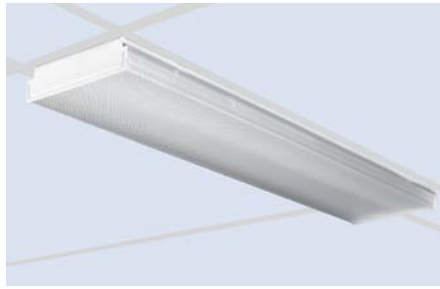
Example **GVB1SFSVL232** **UNV** **HI** **A**

Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 Ballast only)

Ballast
See page 4.195

Options
See page 4.195 and page 4.130



Guardsman Vandal Resistant

Fluorescent wraparound luminaire

Features

- Excellent for locations where vandal resistance is required.
- Prismatic lens is 50% DR (impact resistant), and 50% standard acrylic with a nominal thickness of 1/8", withstands 70 ft. lbs. impact without breaking.
- Tamper resistant holt head screws secure lens to housing.
- UL-Listed for direct mounting on low density ceilings and damp locations.
- Steel end caps, standard.
- Self-aligning for continuous row mounting.
- Heavy duty, die formed channel of code gauge steel.

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**

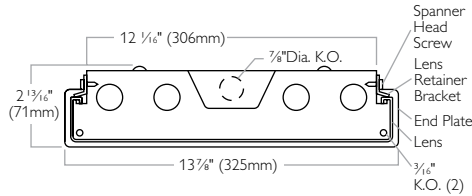
Ballast type	<10THD	<20THD
Electronic T8	H1* , P2**	S0*
1-3 Lamp T8	H3* , P3**	03*
1-4 Lamp T8	H4* , P4**	04*

* Instant start
** Program start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

GV4WB432UNVH4



Reference data	
Efficiency	78.2%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	108W
LER FL	76

Candela Distribution

Angle	End	45	Cross
0	3116	3116	3116
5	3123	3119	3107
15	3020	3063	3099
25	2814	2941	3020
35	2506	2716	2830
45	2040	2285	2285
55	1178	1348	1257
65	632	695	862
75	348	395	553
85	95	229	372
95	0	156	306
105	3	163	237
115	6	119	162
125	10	87	117
135	15	65	91
145	13	48	65
155	13	31	46
165	11	17	25
175	11	11	14

Ordering information

Type	Size	Lamp qty-Type	Catalog no.
Surface Wraparound	15 5/16" x 48"	2-T8 4-T8	GV4WB232 GV4WB432

Example **GV4WB432** **UNV** **H4** **A**

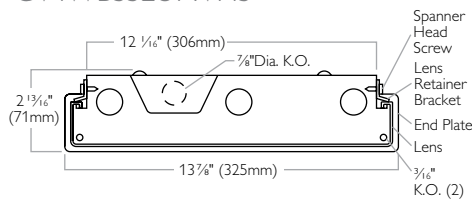
Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

Ballast
See page 4.196

Options
See page 4.196 and page 4.130

GV4WB332UNVH3



Reference data	
Efficiency	79.8%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	86W
LER FL	75

Candela Distribution

Angle	End	45	Cross
0	2339	2339	2339
5	2340	2337	2331
15	2267	2302	2328
25	2110	2208	2274
35	1876	2053	2133
45	1534	1730	1757
55	866	1020	973
65	474	540	679
75	260	310	453
85	68	184	322
95	0	134	266
105	1	137	205
115	4	94	129
125	8	60	78
135	10	45	60
145	9	34	47
155	9	22	33
165	8	12	17
175	8	7	9

Ordering information

Type	Size	Lamp qty-Type	Catalog no.
Surface Wraparound	15 5/16" x 48"	3-T8	GV4WB332

Example **GV4WB332** **UNV** **H3** **A**

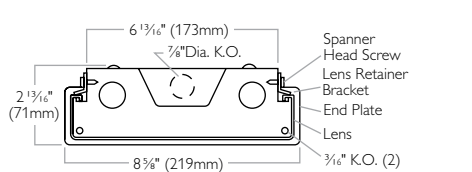
Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

Ballast
See page 4.196

Options
See page 4.196 and page 4.130

GV4WA232UNVHI



Reference data	
Efficiency	77.8%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	59W
LER FL	70

Candela Distribution

Angle	End	45	Cross
0	1482	1482	1482
5	1482	1482	1479
15	1432	1463	1483
25	1331	1409	1458
35	1186	1313	1375
45	967	1078	1045
55	541	615	568
65	305	329	388
75	162	208	292
85	45	129	251
95	0	111	261
105	1	147	199
115	3	83	107
125	4	48	62
135	6	44	57
145	7	34	47
155	7	21	32
165	5	9	15
175	5	6	7

Ordering information

Type	Size	Lamp qty-Type	Catalog no.
Surface Wraparound	10 5/16" x 48" 10 5/16" x 96"	2-T8 2-T8 in Tandem (4 total)	GV4WA232 GV8WA232

Example **GV4WA232** **UNV** **HI** **A**

Guardsman Vandal Resistant

Voltage
120 = 120V
277 = 277V
UNV = 120-277V

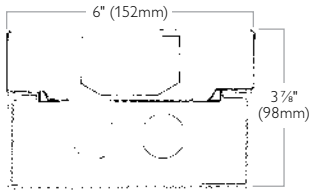
Ballast
See page 4.196

Options
See page 4.196 and page 4.130

Guardsman Vandal Resistant

GSW series ceiling or wall mounted luminaire

GS4V232UNVHI



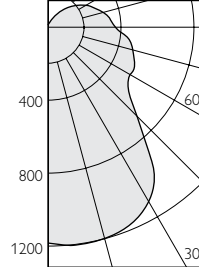
Reference data

Efficiency	73.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	59.1W
LER	62.9

Candlepower Curve



Features

- Excellent for locations where vandal resistance is required, areas such as hallways, stairwells, locker rooms, parking garages and psychiatric hospitals.
- For ceiling or wall mounted applications.
- Can be vertically or horizontally mounted on wall.
- 20 gauge cold rolled steel, post painted, baked white enamel housing.
- 18 gauge cold rolled steel post painted baked white enamel end caps, standard.
- Linear prismatic lens 50% DR (impact resistant) and 50% standard acrylic with nominal thickness of 1/8", withstands 70 foot pounds of impact without breaking.
- Tamper resistant holt head screws secure ends to housing.
- Only 3-7/8" deep, meets Americans with Disabilities Act for wall mounted fixtures.
- Nominal 2' and 4' lengths.
- 73.9% efficient (T8 lamps).

Ordering information

Type	Size	Lamp Length	Lamp qty-type	Catalog no.
GSW Vandal Resistant	6" x 23 1/8"	24"	1-T8	GS2V117
			2-T8	GS2V217
Ceiling or Wall	6" x 48"	48"	1-T8	GS4V132
			2-T8	GS4V132

Example

GS4V232

**Guardsman
Vandal Resistant
GSW Series**

UNV

Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elec. T8 Ballast only)

HI

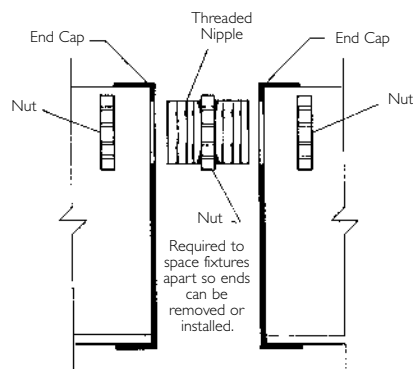
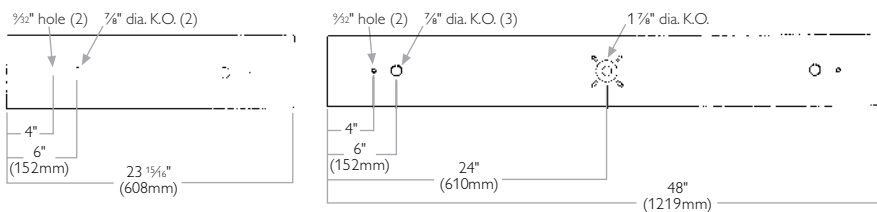
Ballast
See page 4.197

A

Options
See page 4.197
and page 4.130

Options & accessories page 4.130

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVHI**



For continuous row mounting

Ballast type	<10THD	<20THD
Electronic T8	HI*	S0*

* Instant start

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).



IC Series 2' x 4' & 2' x 2'

3" parabolic recessed suitable for thermal insulation contact

Features

- UL Listed Type IC Recessed Luminaire (Intended for Thermal Insulated Contact).
- Construction provides optimum thermal performance.
- Ideal for fire rated ceilings.
- Black exterior for cooler ballast operating temperature.
- 5" deep body (2x4, 2x2)
- 77.7% efficient (3 light 18 cell)
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- Pre-anodized aluminum parabolic louver.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Louver has protective film dust guard.

Options & accessories page 4.130

Louvers: Finish Low iridescence semi-specular is standard. Consult factory for other finishes.

Ballast: Specify voltage (UNV) and type and add as suffix, e.g. **UNVC4**.

Ballast type	<10THD
Electronic T8	C2*
1-3 Lamp Elec T8	C3*
1-4 Lamp Elect T8	C4*
1-3 Lamp TT5 (40W)	NI*
Electronic TT5 (40W)	NJ*

* Instant start High Efficiency.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

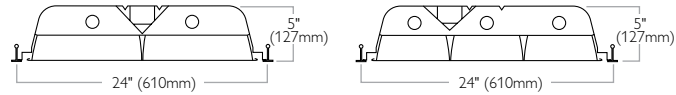
Continuous row installation: For **F** type fixtures, half-width flanges are required between fixtures. Catalog no.: **2FCTrim** for each joint.

Plaster frame: For **F** type troffers, order plaster frames separately. Catalog no.: **PF24** for 2'x4' troffer; **PF22** for 2'x2' troffer.

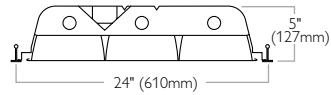
Drywall kit: Catalog no.: **FK92X4** for 2'x4' troffer; **FK92X2** for 2'x2' troffer

Chicago Plenum: For products that meet Chicago Plenum requirements, add Suffix: **C**.

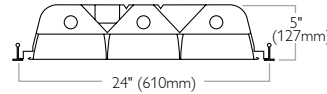
ICS2G12LS232UNVC2



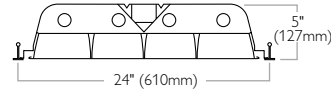
12 Cells (2-T8 or 4-T8)



18 Cells 24 Cells (3-T8 or 4-T8)



18 Cells 24 Cells (3-T8)



32 Cells (4-T8)

Ordering information

Type	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster	Slot-T or Concealed T
Static	12	2-T8	ICS2G12LS232	ICS2F12LS232	ICS2T12LS232
	12	4-T8	ICS2G12LS432	ICS2F12LS432	ICS2T12LS432
	18	3-T8	ICS2G18LP332	ICS2F18LP332	ICS2T18LP332
	24	3-T8	ICS2G24LP332	ICS2F24LP332	ICS2T24LP332
	18	3-T8	ICS2G18LS332	ICS2F18LS332	ICS2T18LS332
	18	4-T8	ICS2G18LS432	ICS2F18LS432	ICS2T18LS432
	32	4-T8	ICS2G32LS432	ICS2F32LS432	ICS2T32LS432

Example

ICS2G12LS232

IC Series
3" Parabolic Recessed Suitable for Thermal Insulation Contact

UNV

Voltage
UNV= 120-277V
(Elec. T8 Ballast only)

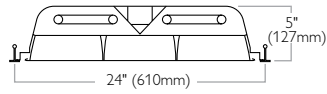
C2

Ballast
See page 4.198

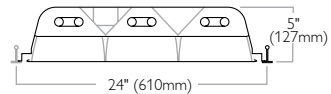
A

Options
See page 4.198 and page 4.130

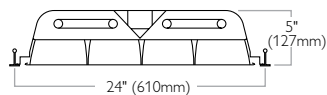
ICS2G9LS26UNVC2



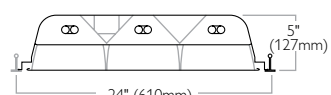
9 Cells or 12 Cells (2-T8U6)



9 Cells or 12 Cells (3-T8U1.6)



16 Cells (2-T8U6)



9 Cells or 12 Cells (3-TT5)

Ordering information

Type	Cells	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster	Slot-T or Concealed T
Static	9	2-T8U6	ICS2G9LS26U	ICS2F9LS26U	ICS2G9LS26U
	12	2-T8U6	ICS2G12LS26U	ICS2F12LS26U	ICS2T12LS26
	16	2-T8U6	ICS2G16LS26U	ICS2F16LS26U	ICS2T16LS26U
	9	3-T8U1.6	ICS2G9LP32U	ICS2F9LP32U	CS2T9LP32U
	12	3-T8U1.6	ICS2G12LP32U	ICS2F12LP32U	ICS2T12LP32U
	9	3-TT5	ICS2G9LP3FT	ICS2G12LP3FT	ICS2T9LP3FT
	12	3-TT5	ICS2G12LP3FT	ICS2G12LP3FT	ICS2T12LP3FT

Example

ICS2G9LS26U

IC Series
3" Parabolic Recessed Suitable for Thermal Insulation Contact

UNV

Voltage
UNV= 120-277V
(Elec. T8 or TT5 Ballast only)

C2

Ballast
See page 4.198

A

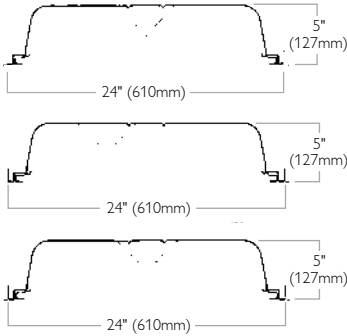
Options
See page 4.198 and page 4.130

IC Series 2' x 4' & 2' x 2'

Recessed lensed static suitable for thermal insulation contact



ICS2GFSVI432UNVC4



4 Lamp Data

Reference data

Efficiency	81.2%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	108.7W
Ballast factor	73.2

Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Static	2' x 4'	2-T8	ICS2GFSVI232	ICS2FFSVI232
		3-T8	ICS2GFSVI332	ICS2FFSVI332
		4-T8	ICS2GFSVI432	ICS2FFSVI432

Example

ICS2GFSVI432

IC Series
Recessed Lensed Static Suitable for Thermal Insulation Contact

UNV

Voltage
UNV= 120-277V See page 4.199 (Elec. T8 Ballast only)

C4

Ballast

A

Options
See page 4.199 and page 4.130

Features

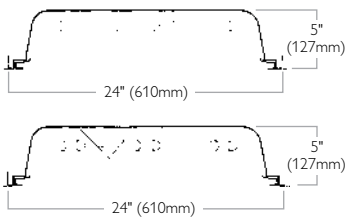
- UL Listed Type IC Recessed Luminaire (Intended for Thermal Insulated Contact).
- Construction provides optimum thermal performance.
- Ideal for fire rated ceilings.
- Black exterior for cooler ballast operating temperature.
- 5" deep body (2x4, 2x2)
- 81.2% efficient (4 light)
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips.
- True Mitered corner steel lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Flat and regressed aluminum doors available.
- Construction to meet Chicago Plenum requirements is available.

Options & accessories page 4.130

Special lenses: VI lens is standard virgin acrylic. For other available lenses, see page 4.130.

Ballast: Specify voltage (UNV) and type and add as suffix, e.g. **UNVC2**.

ICS2GFSVI26UUNVC2 & ICS2GFSVI32UUNVC3



2 Lamp Data

Reference data

Efficiency	71.6%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	56.3W
Ballast factor	58.6

3 Lamp Data

Reference data

Efficiency	67.9%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	76.2W
Ballast factor	64.1

Ordering information

Type	Size	Lamp qty-type	Exposed T-Grid	Flanged for dry wall or plaster
Static	2' x 2'	2-T8U6	ICS2GFSVI26U	ICS2FFSVI26U
		3-TT5	ICS2GFSVI3FT	ICS2FFSVI3FT
		3-T8U1.6	ICS2GFSVI32U	ICS2FFSVI32U
		3-T8F17	ICS2GFSVI317	ICS2FFSVI317

Example

ICS2GFSVI26U

IC Series
Recessed Lensed Static Suitable for Thermal Insulation Contact

UNV

Voltage
UNV= 120-277V (Elec. T8 or TT5 Ballast only)

C2

Ballast
See page 4.199

A

Options
See page 4.199 and page 4.130

Ballast type

<10THD

Electronic T8	C2*
1-3 Lamp Elec T8	C3*
1-4 Lamp Elect T8	C4*
1-3 Lamp TT5 40 Watt	NI*
Electronic TT5 40 Watt	NJ*

* Instant start High Efficiency.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory.

Continuous row installation: For F type fixtures, half-width flanges are required between fixtures. Catalog no.: **2FCTrim** (each joint, 2x2, 2x4).

Plaster frame: For F type troffers, order plaster frames separately. Catalog no.: **PF24** for 2'x4' troffer; **PF22** for 2'x2' troffer.

Door frames Available: ICS2GFS (flat steel door), ICS2GFA (flat aluminum door) ICS2GRA (regressed aluminum door).

Chicago Plenum: For products that meet Chicago Plenum requirements, add Suffix: **C**.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).



TU Turret Industrial

Fluorescent premium open industrial luminaire

Features

- Rugged telescoping turret lampholders.
- Optimum 5 3/8" lamp spacing (2 lamp units).
- Reflector is embossed for rigidity.
- Reflector sides are turned up for rigidity and safe handling.
- 12% aperture reflector, standard.
- Solid top reflector, optional.
- Reflector secured to housing with easy to use thumb screws.
- 4 1/8" wide clevis type housing channel.
- Fully enclosed wiring.
- Optional porcelain reflectors.
- Optional slide grip hangers.
- Optional heavy duty coupling, wire guards and reflector aligners.

page 4.217

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **TU4A232UNVHI**

Ballast type	<10THD	<20THD
Electronic T12 H0	–	SS
Std. Mag. HO/VHO	–	PH
Electronic T8	H1* , P2**	SO*
1 - 3 Lamp Electronic T8	H3* , P3**	03*
1 - 4 Lamp Electronic T8	H4* , P4**	04*

* Instant start
** Program start

Cold weather ballasts: T12 HO lamped fixtures are standard with –20°F ballasts. To specify cold weather (0°F) ballasts for RS or T8 fixtures. Suffix: **CW**.

Reflector Row Aligners: For continuous row installations, specify two additional bulk-packed aligners. Order Catalog no. **TU - SNA**.

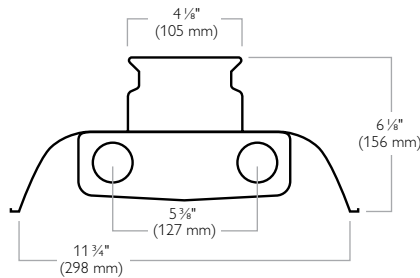
Housing row couplers: For continuous row mounting (stem/chain). One per joint required. Order cat. no. **LFL - 3**.

Side-grip hangers: Accepts 1/2" thread stems or rods. Slides into fixture chassis grooves. Order cat. no. **LFL - 111**.

Chain hanger kit: Order catalog no. **LFL - 123**.

4' Wire guard: Order catalog no. **LFL - 173**.

TU4A232UNVHI



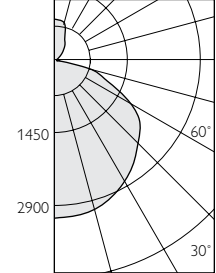
Reference data

Efficiency	91.7%
Spacing ratio	1.3

Electronic ballast

Input watts (120V)	61W
LER FI	80

Candlepower Curve



Ordering information

Type	Fixture length	Lamp length	Lamp qty/type	Catalog no.
12% Uplight	49 1/2"	48"	2-T8	TU4A232
	49 1/2"	48"	3-T8	TU4A332
	99 7/8"	48"	2-T8 in Tandem (4 total)	TU8A232
	99 7/8"	48"	3-T8 in Tandem (6 total)	TU8A332
	96"	96"	2-T8SL	TU8A259SL
	96"	96"	2-T8HO	TU8A286HO
	48"	48"	2-T12HO	TU4A248HO
	96"	96"	2-T12HO	TU8A296HO
	48"	48"	2-T12VHO	TU4A248VO
	96"	96"	2-T12VHO	TU8A296VO
Solid Top No Uplight	49 1/2"	48"	2-T8	TU4S232
	49 1/2"	48"	3-T8	TU4S332
	99 7/8"	48"	2-T8 in Tandem (4 total)	TU8S232
	99 7/8"	48"	3-T8 in Tandem (6 total)	TU8S332
	96"	96"	2-T8SL	TU8S259SL
	96"	96"	2-T8HO	TU8S286HO
	48"	48"	2-T12HO	TU4S248HO
	96"	96"	2-T12HO	TU8S296HO
	48"	48"	2-T12VHO	TU4S248VO
	96"	96"	2-T12VHO	TU8S296VO

Example

TU4A232
Turret Industrial
Fluorescent Premium
Open Industrial Luminaire

UNV
Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elec. T8 32W Ballast only)

HI
Ballast
See page 4.200

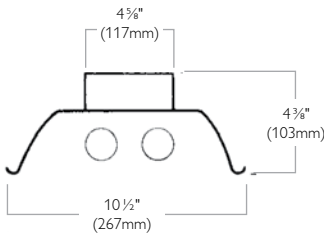
A
Options
See page 4.200
and page 4.217

KD/KW Industrial

Standard open industrial luminaire



KW4S232UNVHI



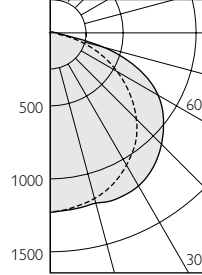
Reference data

Efficiency	88.4%
Spacing ratio	1.5

Electronic ballast

Input watts (120V)	62.0W
LER FI	75.3

Candlepower Curve



Features

- Reflector is embossed for rigidity.
- Reflector sides are turned up for rigidity and safe handling.
- Solid top reflector, standard.
- 10% aperture reflector, optional.
- 4 1/8" wide housing channel.
- U.L. Listed snap-on end caps.
- Fully enclosed wiring.
- Combination end cap for continuous row mounting.
- Optional hangers, wire guards and aligners.
- Optional heavy duty coupling.
- Convenience outlet and switch K.O.'s provided.

Ordering information

Type	Fixture length	Lamp length	Lamp qty/type	Catalog no.
Solid Top No Uplite	48"	48"	2-T8	KW4S232
	96"	48"	2-T8 in Tandem (4 total)	KW8S232
	96"	96"	2-T8SL	KW8S259SL
	96"	96"	2-T8HO	KD8S286HO
	96"	96"	2-T12SL	KW8S296SL
	48"	48"	2-T12HO	KD4S248HO
	96"	96"	2-T12HO	KD8S296HO
	48"	48"	2-T12VHO	KD4S248VO
10% Uplite	96"	96"	2-T12VHO	KD8S296VO
	48"	48"	2-T8	KW4A232
	96"	48"	2-T8 in Tandem (4 total)	KW8A232
	96"	96"	2-T8SL	KW8A259SL
	96"	96"	2-T8HO	KD8A286HO
	96"	96"	2-T12SL	KW8A296SL
	48"	48"	2-T12HO	KD4A248HO
	96"	96"	2-T12HO	KD8A296HO
	48"	48"	2-T12VHO	KD4A248VO
	96"	96"	2-T12VHO	KD8A296VO

Options & accessories page 4.217

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **KW4S232UNVHI**

Ballast type	<10THD	<20THD
Electronic T12 (H0 & SL)	–	SS
Std. Mag. HO/VHO	–	PH
Electronic T8	HI* , P2**	SO*
1 - 3 Lamp Electronic T8	H3* , P3**	03*
1 - 4 Lamp Electronic T8	H4* , P4**	04*

* Instant start
** Program start

4' Wire guard: Order two per 8' fixture. Order catalog no. **AWG4W CSP**.

Reflector row aligner: For continuous row installations. Order catalog no. **KND CSP**.

Side grip hanger: Accepts 1/2" thread stems or rods. Slides into fixture chassis grooves. For **KW** series order **NAHW CSP** and for **KD** series order **NAHD CSP**.

Hard surface mounting or twist tee: For **KW** series order **NAH3 CSP** and for **KD** series order **NAH3D CSP**.

Chain hanger kit: Order catalog no. **AH5 CSP**.

Heavy duty housing coupler: Order catalog no. **NHDC-W CSP**.

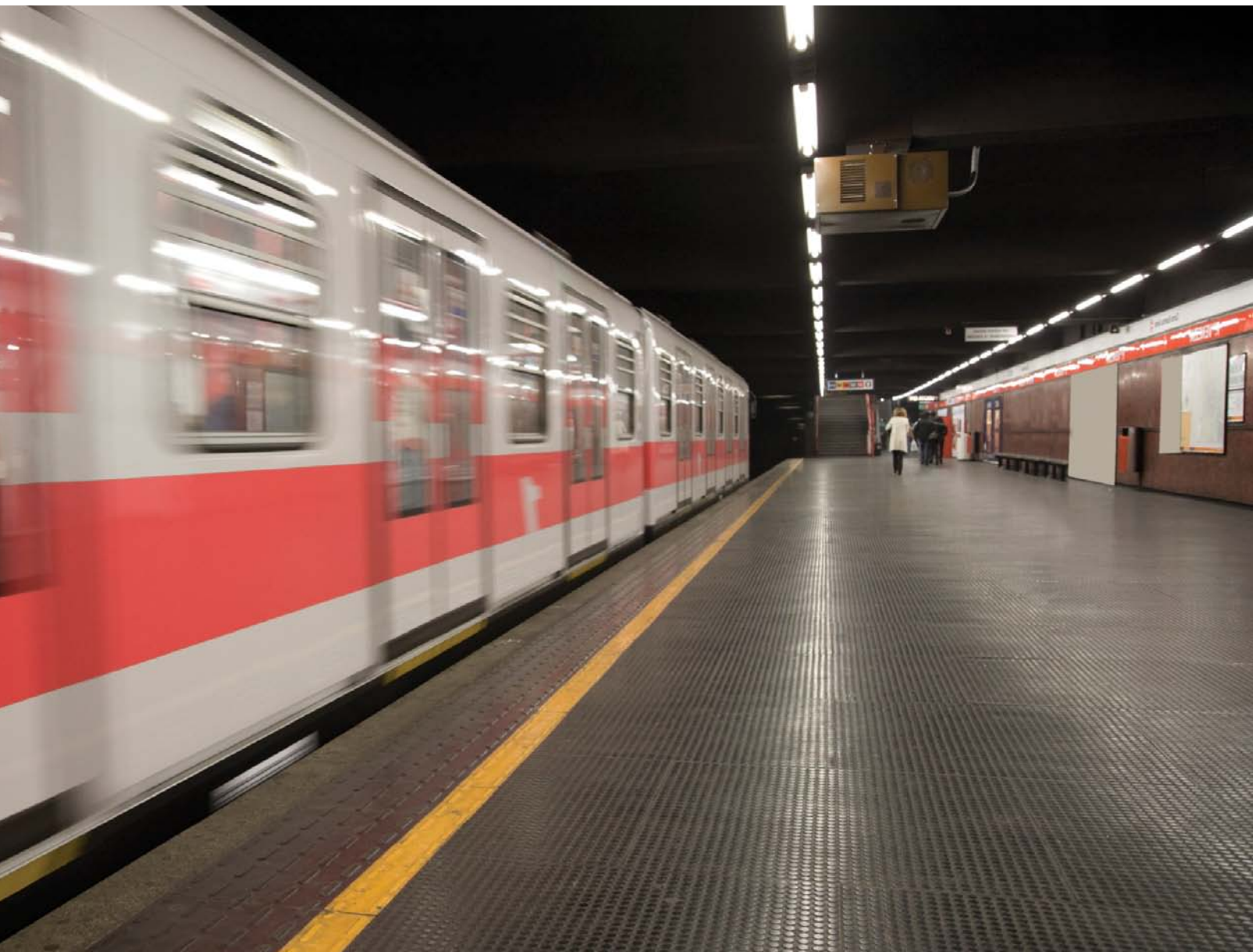
Example

KW4S232	UNV	HI	A
Turret Industrial Standard Open Industrial Luminaire	Voltage 120 = 120V 277 = 277V UNV= 120-277V (Elec. T8 32W Ballast only)	Ballast See page 4.201	Options See page 4.201 and page 4.217

General utility

General utility luminaires are used in a wide variety of applications, ranging from the complex to the simple. This section highlights quality surface mounted strip lighting in all T12, T8 and T5 lamp styles. Our SV5 Louver and Lens Series offers many combinations within our SV T5 channel family. Enabling designers to use channels in both a stylish and practical method. Our standard, narrow, wide, deep and staggered channels meet all the requirements for today's construction needs. You will discover that Philips Lightolier provides many solutions for your general utility lighting needs.





Contents

SV5	>	4.204	Catalog numbering logic	>	4.214
T5 Strips	>	4.206	Surface/wall options	>	4.216
Symmetric & Asymmetric Reflectors	>	4.208	Industrial options	>	4.217
SD Deep Strip	>	4.210	Drywall kit	>	4.218
SS Staggered Strip	>	4.211	The ULM Module	>	4.219
SM Side Mount Strip	>	4.211	Ballast code options	>	4.220
SN Strip	>	4.212	Air handling data	>	4.222
SW Strip	>	4.213			



SV5 louver and lens series

For 1 and 2 lamp 46 T5 strip (SV)

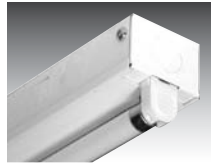
Stylish, when utilizing either the radial louver or linear ribbed prismatic lens, or practical in instances where no optic is required and shielded light is required. The SV5 Series offers many combinations within its offering that allows combinations of either solid, slotted or perforated reflector designs to be interchanged with different radial louver or lens options. The new reflector design also offers a nice alternative to the standard straight blade reflector when used without the lens/louver option. The SV5 Series is retro-fittable with SV4 Series strip.

Features

- 90.6 % Efficiency - based on 1-54W SV Strip with perforated reflector and clear linear ribbed lens.
- 86.1% Efficiency - Based on 2-28W SV Strip with perforated reflector and perforated radial louver.
- Post painted with high efficiency white powdered paint.
- Lay-in design optic allows for easy lamp maintenance.
- Low profile 3" 11-16 profile when installed.
- Tooled radial louver ensures design consistency in continuous row applications.
- Retro-fittable with CFI Brand SV4 T5 Strip.
- Louver - solid or perforated pattern radial blade.
- Lens - frosted linear or clear linear

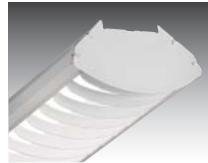
Complete SV5 Luminaire

SV4 Strip
(1 or 2 lamps)



+

SV5 Reflector and shielding options

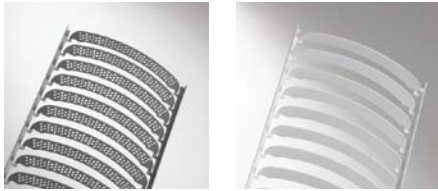


=

Complete SV5 luminaire



Louver options



Options & accessories

Stem and canopy sets: Suspend luminaire 12", 18", 24", 36", or 48" from surface. (Two per luminaire is recommended.)
Catalog no.: **SV5F12** (12"); **SV5F18** (18"); **SV5F24** (24"); **SV5F36** (36"); **SV5F48** (48").

Aircraft cable kit: Cat No: **SVCC60-UNV** (adj. 6"-60") 60" SV5 Power Feed, Cable and Canopy Kit

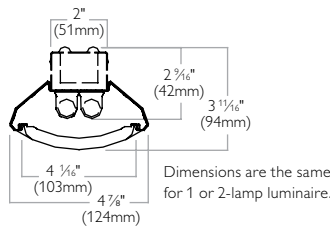
Cable and canopy kit: Cat No: **SVC60** (adj. 6"-60")

Chain hanging kit: Cat No: **EE9HC**
Includes two 5' heavy duty link chains with sturdy "V" hook for fixture suspension.

Rocker switches and convenience outlets: Certain combinations of the SV Series strip with the new SV5 Reflector assembly will not accommodate these options. Please consult the specification sheets or your Philips Lightolier representative to validate the request.

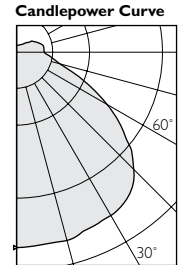
SV5LVW4SPER

Two 28W T5 Fluorescent lamps



RCR	C.U.
1	91
2	83
3	76
4	70
5	64
6	59
7	54
8	50
9	46
10	43

Reference data	
Efficiency	86.1%
Spacing ratio	1.5
Electronic ballast	
Input watts (120V)	64.0W
Luminaire Eff (LER)	1.0



Ordering information

Type	Length (nom)	SV5 Reflector and louver*
White Perforated Reflector with White Perforated Radial Blade	46"	SV5LVW4SPER**
White Solid Reflector with Grey Solid Radial Blade	46"	SV5LGW4SSLD**

Application data*

Luminaire spacing	FC	W/Sq Ft
50' x 70' x 8.5' Space	8' on center	51 1.02
30' x 30' x 8.5' Space	10' on center	53 1.14
10' x 8' x 8' Space	6' on center	43 1.28
6' x 8' x 8' Space	Work Cell	36 1.33

* Average foot candles maintained. Total Light Loss Factor LLF=90 Reflectances: 80% Ceiling, 50% Wall, 20% Floor RE835 T5/T5HO lamp lumens at 4400 rated at 25C.

* Only for use with 1 or 2-lamp T5 Strip (SV)

** For Slotted White Reflector, replace Solid White **SLD** by **SLT**. For Perforated White Reflector, replace Solid White **SLD** by **PER**. For White Perforated Radial Blade Louver, replace **LW** with **LV**. For Grey Perforated Radial Blade Louver, replace **LG** with **LH**

Example	SV5	LV	W4	S	PER
	SV5 Reflector Accessory	Louver design LV = White/Perforated Blade LW = White/Solid Blade LG = Grey/Solid Blade LH = Grey/Perforated Blade	Reflector W4 = Nominal 46" White (Std)	Light dist. S = Symmetric	Reflector style SLD = Solid SLT = Slotted PER = Perforated

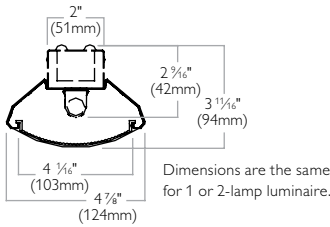
SV5 louver and lens series

For 1 and 2 lamp 46 T5 strip (SV)



SV5CLW4SPER

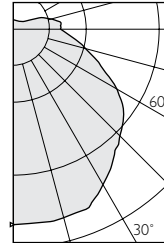
One 54W T5 HO Fluorescent lamp



RCR	C.U.
1	95
2	86
3	79
4	72
5	66
6	61
7	56
8	51
9	47
10	44

Reference data	
Efficiency	90.6%
Spacing ratio	1.3
Electronic ballast	
Input watts (120V)	64.0W
Luminaire Eff (LER)	1.1

Candlepower Curve



Ordering information

Type	Length (nom)	SV5 Reflector and louver*
White Perforated Reflector with Clear Linear Lens	46"	SV5CLW4SPER**
White Solid Reflector with Frosted Linear Lens	46"	SV5FLW4SSLT**

Application data*

Luminaire spacing	FC	W/Sq Ft
50' x 70' x 12' Space	8' on center	45 0.92
30' x 30' x 8.5' Space	10' on center	46 1.06
10' x 8' x 8' Space	8' on center	37 1.19
6' x 8' x 8' Space	Work Cell	36 1.25

* Average foot candles maintained. Total Light Loss Factor LLF=.90 Reflectances: 80% Ceiling, 50% Wall, 20% Floor RE835 T5/T5HO lamp lumens at 4400 rated at 25C.

* Only for use with 1 or 2-lamp T5 Strip (SV)

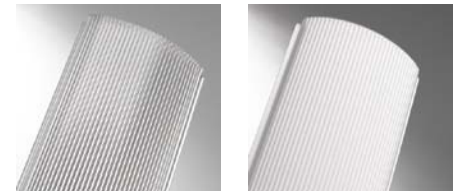
** For Perforated White Reflector, replace Solid White **SLT** by **PER**

Example	SV5	CL	W4	S	PER
	SV5 Reflector Accessory	Louver design CL = Clear Linear Lens FL = Frosted Linear Lens	Reflector W4 = Nominal 46" White (Std)	Light dist. S = Symmetric	Reflector style SLT = Slotted PER = Perforated

Features

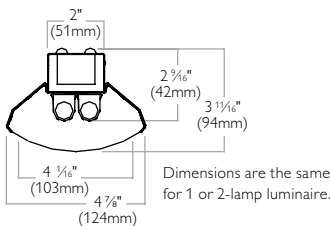
- 90.6 % Efficiency - Based on 1-54W SV Strip with perforated reflector and clear linear ribbed lens.
- 86.1% Efficiency - Based on 2-28W SV Strip with perforated reflector and perforated radial louver.
- Post painted with high efficiency white powdered paint.
- Lay-in design optic allows for easy lamp maintenance.
- Low profile 3" 11-16 profile when installed.
- Tooled radial louver ensures design consistency in continuous row applications.
- Retro-fittable with CFI Brand SV4 T5 Strip.
- Louver - solid or perforated pattern radial blade.
- Lens - frosted linear or clear linear

Lens options



SV5XXW4SSLD

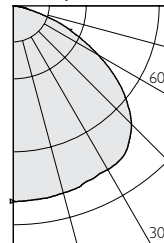
Two 28W T5 Fluorescent lamps



RCR	C.U.
1	96
2	88
3	80
4	74
5	67
6	62
7	57
8	52
9	48
10	44

Reference data	
Efficiency	87.8%
Spacing ratio	1.5
Electronic ballast	
Input watts (120V)	64.0W
Luminaire Eff (LER)	1.0

Candlepower Curve



Ordering information

Type	Length (nom)	SV5 Reflector and louver*
White Solid Reflector	46"	SV5XXW4SSLD** SV5XXW4SSLD** SV5XXW4SSLD**

Application data*

Luminaire spacing	FC	W/Sq Ft
50' x 70' x 12' Space	8' on center	45 0.88
30' x 30' x 8.5' Space	10' on center	34 0.64
10' x 8' x 8' Space	8' on center	22 0.64
6' x 8' x 8' Space	Work Cell	28 1.33

* Average foot candles maintained. Total Light Loss Factor LLF=.90 Reflectances: 80% Ceiling, 50% Wall, 20% Floor RE835 T5/T5HO lamp lumens at 4400 rated at 25C.

Lens option not available with a solid reflector

* Only for use with 1 or 2-lamp T5 Strip (SV)

** For Slotted White Reflector, replace Solid White **SLD** by **SLT**.

For Perforated White Reflector, replace Solid White **SLD** by **PER**.

Example	SV5	XX	W4	S	SLD
	SV5 Reflector Accessory	Louver design XX = No Lens / Louver	Reflector W4 = Nominal 46" White (Std)	Light dist. S = Symmetric	Reflector style SLD = Solid (N/A with Lens option) SLT = Slotted PER = Perforated

Options & accessories

Stem and canopy sets: Suspend luminaire 12", 18", 24", 36", or 48" from surface.

(Two per luminaire is recommended.)

Catalog no.: **SV5F12** (12"); **SV5F18** (18");

SV5F24 (24"); **SV5F36** (36"); **SV5F48** (48").

Aircraft cable kit: Cat No: **SVCC60-UNV**

(adj. 6"-60") 60" SV5 power feed, cable and canopy kit

Cable and canopy kit: Cat No: **SVC60** (adj. 6"-60")

Chain hanging kit: Cat No: **EE9HC**

Includes two 5' heavy duty link chains with sturdy

"V" hook for fixture suspension.

Rocker switches and convenience outlets: Certain combinations of the SV Series strip with the new SV5 Reflector assembly will not accommodate these options. Please consult the specification sheets or your Philips Lightolier representative to validate the request.

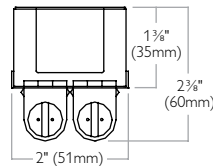
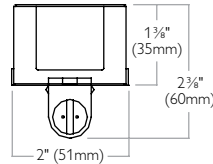


T5 strip series 22", 34", 46", 92"

Surface strips (SV)

SV4S228UNVPG

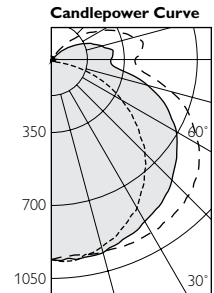
2 T5 Strip



RCR	C.U.
1	90
2	77
3	67
4	59
5	52
6	46
7	41
8	37
9	33
10	30

Reference data	
Efficiency	93.3%
Spacing ratio	1.5

Electronic ballast	
Input watts (120V)	66.0W
Ballast factor	1.0



Features

- Only 2" Wide.
- Utilizes compact, high efficiency, T5 or T5HO lamps.
- Fully enclosed wiring.
- Optional white or specular, symmetric and asymmetric reflector.
- Convenience outlet and switch K.O.s provided.
- Push through lamp holders with rotor for secure lamp retention.
- Optional hangers and guards.

Ordering information

Type	Length (nominal)	Number of lamps	T5	T5HO
Strip T5	22"	1	SV2S114	SV2S124
	22"	2	SV2S214	SV2S224
	34"	1	SV3S121	SV3S139
	34"	2	SV3S221	SV3S239
	46"	1	SV4S128	SV4S154
	46"	2	SV4S228	SV4S254
	92"	2 (tandem)	SV8S128	SV8S154
	92"	4 (tandem)	SV8S228	SV8S254

Example

SV4S228

UNV

PG

Strip T5
Surface Strips

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

Ballast See next page
Options See next page

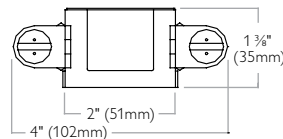
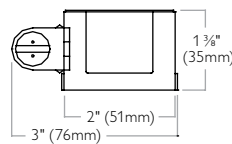


T5 side-mount strip series 26", 38", 50"

Surface side-mount strips (SM)

SM4S228UNVPG

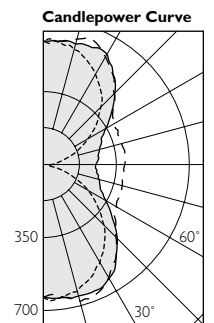
2 T5 Sidemount Strip



RCR	C.U.
1	86
2	74
3	65
4	57
5	50
6	45
7	40
8	36
9	33
10	30

Reference data	
Efficiency	94.5%
Spacing ratio	1.4

Electronic ballast	
Input watts (120V)	66.0W
Ballast factor	1.0



Features

- Only 1 3/8" deep.
- Utilizes compact, high efficiency, T5 or T5HO lamps.
- Fully enclosed wiring.
- Convenience outlet and switch K.O.s provided (1 lamp only).
- Push through lamp holders with rotor for secure lamp retention.

Ordering information

Type	Length (nominal)	Number of lamps	T5	T5HO
Side-mount Strip T5	22"	1	SM2S114	SM2S124
	22"	2	SM2S214	SM2S224
	34"	1	SM3S121	SM3S139
	34"	2	SM3S221	SM3S239
	46"	1	SM4S128	SM4S154
	46"	2	SM4S228	SM4S254

Example

SM4S228

UNV

PG

Strip T5
Surface Strips

Voltage
120 = 120V
277 = 277V
UNV= 120-277V

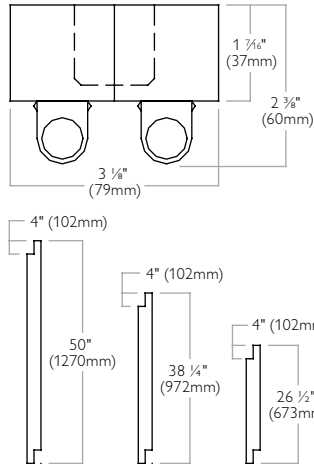
Ballast See next page
Options See next page

T5 staggered strip series

26", 38", 50"

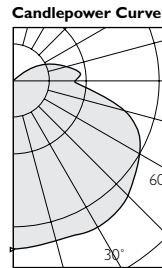
Surface staggered strips

SS4S228UNVPG



RCR	C.U.	Reference data	
1	88	Efficiency ratio	90,4%
2	76	Spacing ratio	1.5
3	66	Electronic ballast	
4	58	Input watts (120V)	66.0W
5	50	Ballast factor	1.0
6	45		
7	40		
8	36		
9	32		
10	29		

2 T5 Staggered Strip



Features

- Only 2" Wide.
- Utilizes compact, high efficiency, T5 or T5HO lamps.
- Fully enclosed wiring.
- Optional white or specular, symmetric and asymmetric reflector.
- Convenience outlet and switch K.O.s provided.
- Push through lamp holders with rotor for secure lamp retention.
- Optional hangers and guards.

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **UNVPG**.

Ordering information

Type	Length (nominal)	Number of lamps	T5	T5HO
Staggered Strip T5	26 1/2"	1	SS2S114	SS2S124
	26 1/2"	2	SS2S214	SS2S224
	38 1/4"	1	SS3S121	SS3S139
	38 1/4"	2	SS3S221	SS3S239
	50"	1	SS4S128	SS4S154
	50"	2	SS4S228	SS4S254

Application data*			
Luminaire spacing	FC	W/Sq Ft	
50' x 70' x 8.5' Space 12' on center	29	.45	
30' x 30' x 8.5' Space 10' on center	36	.66	
12' x 16' x 8.5' Space 8' on center	54	1.4	

* Average footcandles mounted total LLF Reflectance 60% ceiling, 50% wall, 20%. Floor T5 rated at 2610 lumens (25°C).

Ballast type

Electronic T5 (1 or 2 LPB) Program start	PG
Electronic T5 (1 or 2 LPB) Power Spec Dimming (120/277V only)	PF

LPB = Number of lamps per ballast.

Radio interference filter: Suffix: **R**.
120 or 277 volt at 50 or 60Hz.

Stem and canopy sets: Suspend luminaire 12", 18", 24", 36", or 48" from surface. (Two per luminaire is recommended. For 34" and 46" SV Strip only.)
Catalog no.: **SV5F12** (12"); **SV5F18** (18"); **SV5F24** (24"); **SV5F36** (36"); **SV5F48** (48")

Chain hanging kit: Includes two 5' heavy duty link chains with sturdy "V" hook for fixture suspension. (34" and 46" SV Strip only.) Catalog no.: **AH5 CSP**

Wire guard: white wire guard. Catalog no.:
For **SV** Strip T5 34": **SV5GXW3**
For **SV** Strip T5 46": **SV5GXW4**

Reflectors: See Page page 4.208 + 4.209

Example	SS4S228	UNV	PG	
	Staggered Strip T5	Voltage	Ballast	Options
	Surface Strips	120 = 120V 277 = 277V UNV = 120-277V	See page 4.207	See page 4.207 and page 4.216

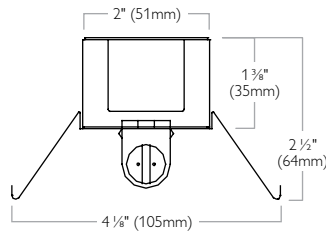
Symmetric reflector 2', 3', 4'

For 1 or 2 lamps T5 strip (SV)



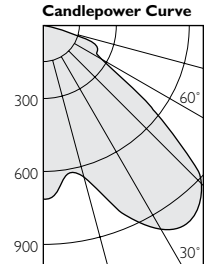
SV5R1S4SSLD / SV4S154UNVPG

1 T5 Symmetric Silver



RCR	C.U.
1	90
2	77
3	67
4	59
5	52
6	46
7	41
8	37
9	33
10	30

Reference data	
Efficiency	87,5%
Spacing ratio	1.9
Electronic ballast	
Input watts (120V)	64.0W
Ballast factor	1.0



Ordering information

Type	Length (nominal)	Reflector for T5 Strip*
Symetric Reflector White	22"	SV5R1W2SSLD**
	34"	SV5R1W3SSLD**
	46"	SV5R1W4SSLD**
	92"	2X SV5R1W4SSLD**
Symetric Reflector Silver	22"	SV5R1S2SSLD
	34"	SV5R1S3SSLD
	46"	SV5R1S4SSLD
	92"	2X SV5R1S4SSLD

Application data*

Luminaire spacing	FC	W/Sq Ft
50' x 70' x 8.5' Space 12' on center	25	.44
30' x 30' x 8.5' Space 10' on center	31	.64
12' x 16' x 8.5' Space 8' on center	47	1.3

* Average footcandles mounted total LLF =.90 Reflectance 80% ceiling, 50% wall, 20% Floor T5 rated at (25°C).

Lamp rated at 2610 lumens

Features

- Only 1 3/8" deep.
- Installation on regular SV T5 strip, 1 or 2 lamps.
- Available in white or high reflectivity specular finish.
- Optional micro-perforated or slotted white reflector.

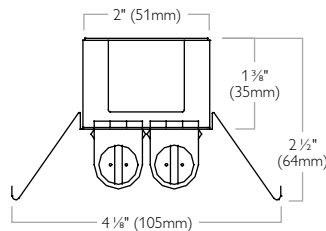
* Use with 1 or 2 T5 Strip (SV)

** For Slotted White Reflector, replace Solid White **SLD** by **SLT**

For Microperforated White Reflector, replace Solid White **SLD** by **PER**

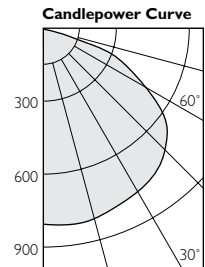
SV5R1W4SSLD / SV4S254UNVPG

2 T5 Symmetric White



RCR	C.U.
1	86
2	74
3	65
4	57
5	50
6	45
7	40
8	36
9	33
10	30

Reference data	
Efficiency	78.7%
Spacing ratio	1.4
Electronic ballast	
Input watts (120V)	121.0W
Ballast factor	1.0



Ordering information

Type	Length (nominal)	Reflector for T5 Strip*
Symetric Reflector White	22"	SV5R1W2SSLD**
	34"	SV5R1W3SSLD**
	46"	SV5R1W4SSLD**
	92"	2X SV5R1W4SSLD**
Symetric Reflector Silver	22"	SV5R1S2SSLD
	34"	SV5R1S3SSLD
	46"	SV5R1S4SSLD
	92"	2X SV5R1S4SSLD

Application data*

Luminaire spacing	FC	W/Sq Ft
50' x 70' x 8.5' Space 12' on center	50	.83
30' x 30' x 8.5' Space 10' on center	51	1.2
12' x 16' x 8.5' Space 8' on center	84	2.5

* Average footcandles mounted total LLF =.90 Reflectance 80% ceiling, 50% wall, 20% Floor T5 rated at (25°C).

Lamp rated at 4400 lumens

* Use with 1 or 2 T5 Strip (SV)

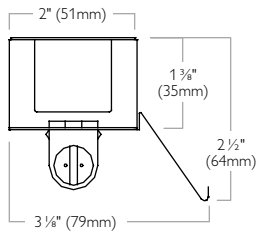
** For Slotted White Reflector, replace Solid White **SLD** by **SLT**

For Microperforated White Reflector, replace Solid White **SLD** by **PER**

Asymmetric reflector 2', 3', 4'

For 1 or 2 lamps T5 strip (SV)

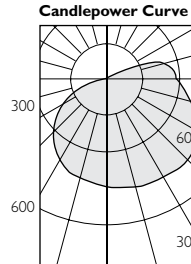
SV5R1W4ASLD / SV4S154UNVPG



RCR	C.U.
1	88
2	76
3	66
4	58
5	50
6	45
7	40
8	36
9	32
10	29

Reference data	
Efficiency	91.8%
Spacing ratio	-
Electronic ballast	
Input watts (120V)	64.0W
Ballast factor	1.1

1 T5 Asymmetric White



Ordering information

Type	Length (nominal)	Reflector for T5 Strip*
Symetric Reflector White	22"	SV5R1W2ASLD**
	34"	SV5R1W3ASLD**
	46"	SV5R1W4ASLD**
	92"	2X SV5R1W4ASLD**
Symetric Reflector Silver	22"	SV5R1S2ASLD
	34"	SV5R1S3ASLD
	46"	SV5R1S4ASLD
	92"	2X SV5R1S4ASLD

* Use with 1 or 2 T5 Strip (SV)

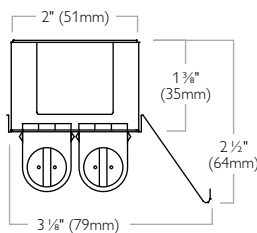
** For Slotted White Reflector, replace Solid White **SLD** by **SLT**

For Microperforated White Reflector, replace Solid White **SLD** by **PER**

Features

- Only 1 3/8" deep.
- Installation on regular SV T5 strip, 1 or 2 lamps.
- Available in white or high reflectivity specular finish.

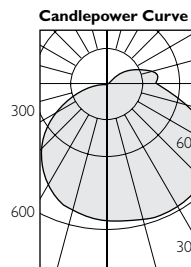
SV5R1W4ASLD / SV4S254UNVPG



RCR	C.U.
1	86
2	75
3	65
4	57
5	50
6	45
7	40
8	36
9	32
10	29

Reference data	
Efficiency	85.8%
Spacing ratio	-
Electronic ballast	
Input watts (120V)	121.0W
Ballast factor	1.0

2 T5 Asymmetric White



Ordering information

Type	Length (nominal)	Reflector for T5 Strip*
Symetric Reflector White	22"	SV5R1W2ASLD**
	34"	SV5R1W3ASLD**
	46"	SV5R1W4ASLD**
	92"	2X SV5R1W4ASLD**
Symetric Reflector Silver	22"	SV5R1S2ASLD
	34"	SV5R1S3ASLD
	46"	SV5R1S4ASLD
	92"	2X SV5R1S4ASLD

* Use with 1 or 2 T5 Strip (SV)

** For Slotted White Reflector, replace Solid White **SLD** by **SLT**

For Microperforated White Reflector, replace Solid White **SLD** by **PER**



SD Deep Strip

High output/very high output

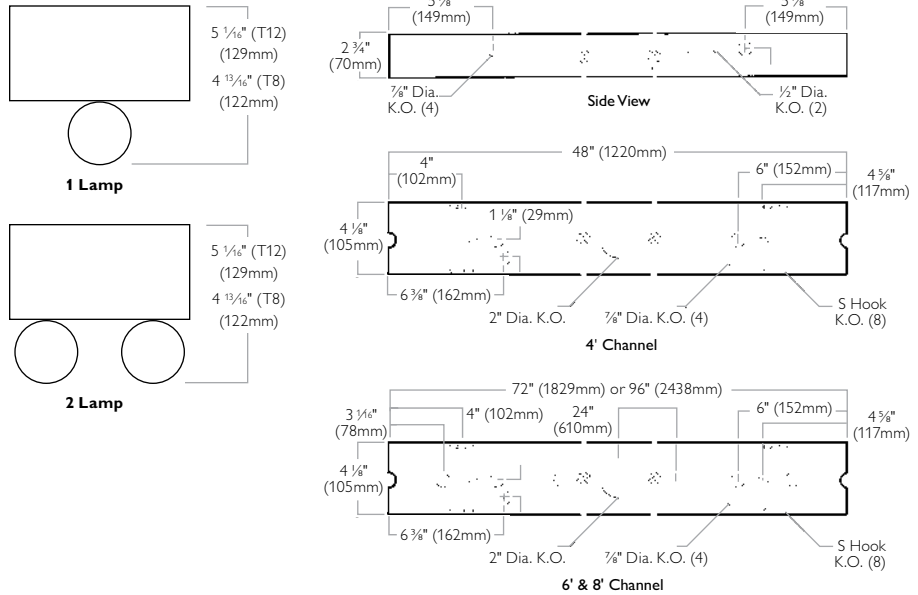
SD8S296HO120SS

Features

- Fixtures suitable for individual, row, surface, or suspension mounting.
- Efficiency 92.3% (T12).
- Quarter turn latch secures channel cover for easy wireway access.
- Heavy duty channel of code gauge die formed steel.
- Fully enclosed wiring.
- U.L. Listed snap-on end caps.
- Combination end cap for continuous row mounting.
- Green grounding screw installed in channel.
- Lampholders may be individually replaced or rewired.
- T8 (380mA) and T12 (800mA) standard fixtures include ballasts rated for -20°F starting temperature.

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. **120SO**.



Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
Electronic P.S. T8	P2	–
Electro-Magnetic	–	PH
Electronic T12 Standard	–	SS

* Instant start.

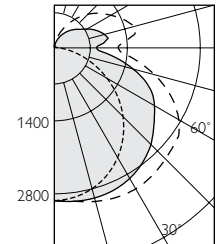
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory. Optional hangers, wire guards & aligners, see page 4.216.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Ordering information

Fixture length	Nominal lamp length	Lamps qty - type	Catalog no. SD 1 or 2 lamps wide
48"	48"	1-T12HO	SD4S148HO
96"	48"	1-T12VHO	SD4S148VO
96"	96"	1-T12HO	SD8S196HO
192"	96"	1-T12HO in Tandem (2 Total)	SD8T196HO
96"	96"	1-T12VHO	SD8S196VO
192"	96"	1-T12HO in Tandem (2 Total)	SD8T196VO
48"	48"	2-T8HO	SD4S244HO
		2-T12HO	SD4S248HO
		2-T12VHO	SD4S248VO
96"	96"	2-T12HO	SD8S296HO
		2-T12VHO	SD8S296VO
96"	96"	1-T8HO	SD8S186HO
192"	96"	1-T8 in Tandem (2 Total)	SD8T186HO
96"	96"	2-T8HO	SD8S286HO

Candlepower Curve



Reference data

Efficiency	92.3%
Spacing ratio	1.59

Electronic ballast

Input watts (120V)	232W
LER = FS	67.3

Reflectors

Type	Size	Catalog no.
Symmetrical	48"	NSYMF48S CSP
Asymmetrical	48"	NASYF48S CSP

Accessories

- AC1 CSP** = spacer each.
- NAH3D CSP** = twis tee each.
- NAHD CSP** = slide grip each.
- AWG3W CSP** = wire guard each 4ft.

All symmetric and asymmetric reflectors are shipped separately from the fixture.

Example

SD8S296HO

SD Strip
High Output
Very High Output

120

Voltage
120 = 120V
277 = 277V

SS

Ballast
See page 4.210

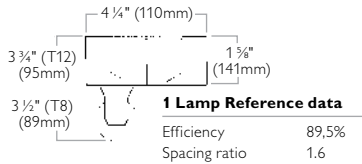
A

Options
See page 4.210
and page 4.216

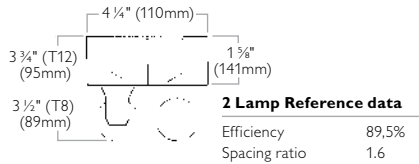
SS Staggered Strip

Surface strip

SS4S132HPFUNVHI



SS4S232HPFUNVHI



Ordering information

Fixture length	Nominal lamp length	Lamps qty - type	1 Lamp Catalog no.
23 15/16"	24"	1-T8	SS2S117HPF
23 15/16"	24"	1-T12	SS2S120HPF
35 15/16"	36"	1-T8	SS3S125HPF
35 15/16"	36"	1-T12	SS3S130HPF
47 15/16"	48"	1-T8	SS4S132HPF
68 15/16"	36"	2-T8	SS6T125HPF
68 15/16"	36"	2-T12	SS6T130HPF
92 15/16"	48"	2-T8	SS8T132HPF

1 lamp T8 Reflectors (T8 only)

Type	Size	Catalog no.
	24"	ASYC20STG
Asymmetrical	36"	ASYC30STG
	48"	ASYC40STG

Ordering information

Fixture length	Nominal lamp length	Lamps qty - type	2 Lamp Catalog no.
26 15/16"	24"	2-T8	SS2S217HPF
26 15/16"	24"	2-T12	SS2S220HPF
38 15/16"	36"	2-T8	SS3S225HPF
38 15/16"	36"	2-T12	SS3S230HPF
50 15/16"	48"	2-T8	SS4S232HPF
74 15/16"	36"	4-T8	SS6T225HPF
74 15/16"	36"	4-T12	SS6T230HPF
98 15/16"	48"	4-T8	SS8T232HPF

2 lamp Reflectors (T8 only)

Type	Size	Catalog no.
	24"	ASYF24STG
Asymmetrical	36"	ASYF36STG
	48"	ASYF48STG

Example

SS4S132HPF

SS Strip
Narrow Width Channel

UNV

Voltage
120 = 120V
277 = 277V
UNV= 120-277V (Elect T8 only)

HI

Ballast
See page 4.211

A

Options
See page 4.211
and page 4.216



Features

- Full 3" overlap eliminates shadows caused by lampholders or lamp ends.
- Housing is only 1 5/8" deep.
- Safe-handling metal edges.
- Fully enclosed wireway.
- Excellent for perimeter cove lighting or other applications where continuous even illumination is required.

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
1-4 Lamp Electronic T8	H4*	O4*
LOL T8 Dimming	–	PS
Magnetic T12		
HPF Models	–	PH
LPF Models	–	PL

* Instant start.

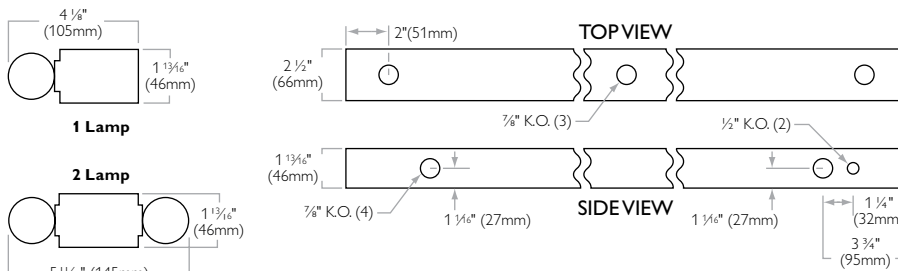
Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory. Optional hangers, wire guards & aligners, see page 4.216.

Fusing: Suffix: **A** (Internal fast-blow fusing).
Suffix: **C** (Internal slow-blow fusing).

SM Side Mount Strip

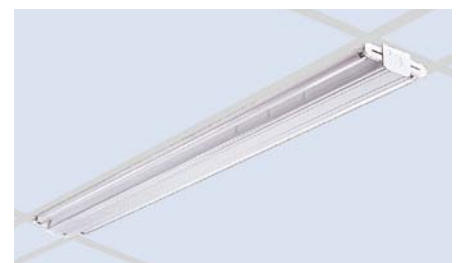
Surface strip

SM132HPFUNVHI



Ordering information

Dimensions		Fixture length	Nominal lamp length	Lamps qty - type	1 Lamp Catalog no.	1 Lamp Catalog no.
Channel length	Inches (mm)					
2' Channel	24" (610 mm)	24"	24"	T8	SM117HPF	SM217HPF
3' Channel	36" (914 mm)	24"	24"	T12	SM120LPF	SM220LPF
4' Channel	48" (1219 mm)	36"	36"	T8	SM125HPF	SM225HPF
		36"	36"	T12	SM130LPF	–
		36"	36"	T12	SM130HPF	SM230HPF
		48"	48"	T12	SM134LPF	–
		48"	48"	T8	SM132HPF	SM232HPF



Features

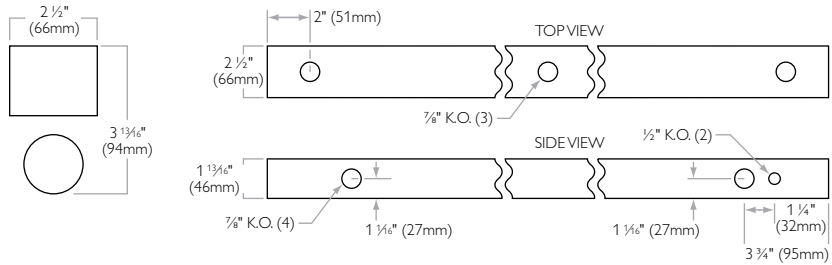
- Only 1 13/16" deep.
- Efficiency 95.8%.
- Ballast cover secured by quarter-turn latches.
- Fully enclosed wiring.
- May be surface mounted or suspended.
- May be continuous row mounted.
- Code gauge, heavy duty, die formed steel channel.
- Multiple knockouts for convenient installation.
- Lampholders may be individually replaced or rewired.
- High reflectance baked white enamel finish.
- U.L. Listed for damp locations.



SN Strip

Narrow width channel

SN4S132HPFUNVHI



Features

- Fixtures suitable for individual, row, surface, or suspension mounting.
- Efficiency 94% (T8).
- Quarter turn latch secures channel cover for easy wireway access.
- Heavy duty channel of code gauge die formed steel.
- Only 2 1/2" wide.
- Fully enclosed wiring.
- U.L. Listed snap-on end caps.
- Combination end cap for continuous row mounting.
- Green grounding screw installed in channel.
- U.L. listed for direct mounting on low density ceilings and damp location.

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
LOL T8 Dimming	–	PS
Magnetic T12		
Standard Electro-Magnetic LPF Models	PL	–
Electronic T12	SS	–
HPF Models 18", 24", 36" only		

* Instant start.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory. Optional hangers, wire guards & aligners, see page 4.216.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Dimensions

Channel length	Inches	(mm)
18" Channel	18"	(457 mm)
2' Channel	24"	(610 mm)
3' Channel	36"	(914 mm)
4' Channel	48"	(1219 mm)
6' Channel	72"	(1829 mm)
8' Channel	96"	(2438 mm)

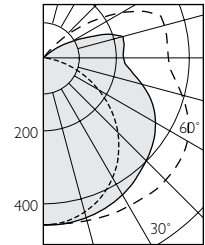
Reference data

Efficiency	94.0%
Spacing ratio	1.6

Electronic ballast

Input watts (120V)	36.0W
LER = FS	66.7

Candlepower Curve



Ordering information

Fixture length	Lamp length	Lamps qty - type	Catalog no.
24"	24"	1-T8	SN2S117HPF
36"	36"	1-T8	SN3S125HPF
48"	48"	1-T8	SN4S132HPF
96"	48"	1-T8 in Tandem (2 Total)	SN8T132HPF
18"	18"	1-T12	SN1S115HPF
18"	18"	1-T12	SN1S115LPF
24"	24"	1-T12	SN2S120HPF
24"	24"	1-T12	SN2S120LPF
36"	36"	1-T12	SN3S130HPF
36"	36"	1-T12	SN3S130LPF
48"	48"	1-T12	SN4S134LPF

Example **SN4S132HPF** **UNV** **HI** **A**

SN Strip
Narrow Width Channel

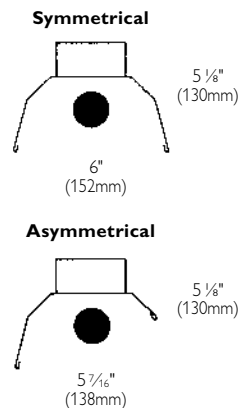
Voltage
120 = 120V
277 = 277V
UNV = 120-277V
(Elect T8 only)

Ballast
See page 4.212

Options
See page 4.212 and page 4.216

Reflectors

Type	Size	Catalog no.
Symmetrical	24"	NSYMC20 CSP
	36"	NSYMC30 CSP
	48"	NSYMC40 CSP
Asymmetrical	24"	NASYC20 CSP
	36"	NASYC30 CSP
	48"	NASYC40 CSP



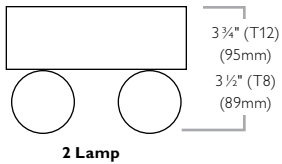
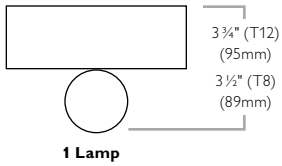
Accessories

AC1 CSP = spacer each.
AWG1W CSP = wire guard each.
All symmetric and asymmetric reflectors are shipped separately from the fixture.

SW Strip

Standard strip wide

SW4S232HPFUNVHI



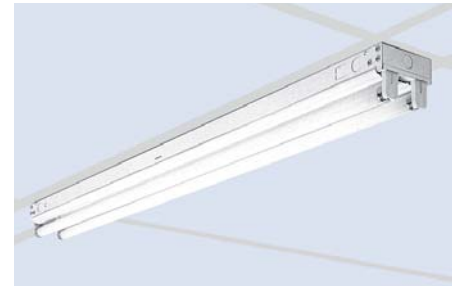
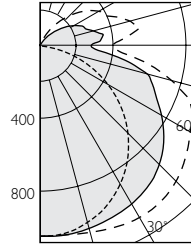
Reference data

Efficiency	97.3%
Spacing ratio	1.58

Electronic ballast

Input watts (120V)	60.3W
LEF = FS	80.5

Candlepower Curve



Features

- Fixtures suitable for individual, row, surface, or suspension mounting.
- Efficiency 97.3% (T8).
- Quarter turn latch secures channel cover for easy wireway access.
- Heavy duty channel of code gauge die formed steel.
- Fully enclosed wiring.
- U.L. Listed snap-on end caps.
- Combination end cap for continuous row mounting.
- Green grounding screw installed in channel.
- Lampholders may be individually replaced or rewired.
- U.L. listed for direct mounting on low density ceilings and damp locations.

Ordering information

Fixture length	Lamp length	1 Lamp -type	1 Lamp Catalog no.	2 Lamp -type	2 Lamp Catalog no.
24"	24"	1-T8	SW2S117HPF	2-T8	SW2S217HPF
36"	36"	1-T8	SW3S125HPF	2-T8	SW3S225HPF
48"	48"	1-T8	SW4S132HPF	2-T8	SW4S232HPF
96"	48"	1-T8 in Tandem (2 Total)	SW8T132HPF	2-T8 (in Tandem -2 Total)	SW8T232HPF
96"	96"	1-T8 SL	SW8S159SL	2-T8 SL	SW8S259SL
24"	24"	1-T12	SW2S120HPF	2-T12	SW2S220HPF
24"	24"	1-T12	SW2S120LPF	2-T12	SW2S220LPF
36"	36"	1-T12	SW3S130HPF	2-T12	SW3S230HPF
36"	36"	1-T12	SW3S130LPF	2-T12	SW3S230LPF
48"	48"	1-T12	SW4S134LPF	2-T12	SW4S234LPF
48"	48"	1-T12SL	SW4S148SL	2-T12SL	SW4S248SL
72"	72"	1-T12SL	SW6S172SL	2-T12SL	SW6S272SL
96"	96"	1-T12SL	SW8S196SL	2-T12SL	SW8S296SL
192"	96"	1-T12 in Tandem (2 Total)	SW8T196SL	-	-

Options & accessories page 4.216

Ballast: Specify voltage (120, 277 or UNV) and type and add as suffix, e.g. UNVHI.

Ballast type	<10THD	<20THD
Electronic T8	HI*	SO*
1-4 Lamp Electronic T8	H4*	O4*
LOL T8 Dimming	-	PS
Magnetic T12		
Standard Electro-Magnetic LPF Models	-	PL
Electronic T12		
Standard Electro-Magnetic HPF and SL Models	-	SS

* Instant start.

Electrical/wiring options: For special wiring, fusing, electronic dimming ballasts, consult factory. Optional hangers, wire guards & aligners, see page 4.216.

Fusing: Suffix: **A** (Internal fast-blow fusing). Suffix: **C** (Internal slow-blow fusing).

Example **SW4S232HPF** **UNV** **HI** **A**

SW Strip
Standard Strip Wide

Voltage
120 = 120V
277 = 277V
UNV= 120-277V
(Elect T8 only)

Ballast
See page 4.213

Options
See page 4.213
and page 4.216

Reflectors

Type	Size	Catalog no.
Symmetrical	24"	NSYMF24S CSP
	36"	NSYMF36S CSP
	48"	NSYMF48S CSP
Asymmetrical	24"	NASYF24S CSP
	36"	NASYF36S CSP
	48"	NASYF48S CSP

Accessories

AC1 CSP = spacer each.
NAH3 CSP = twis tee each.
AWG1W CSP = wire guard each.
 All symmetric and asymmetric reflectors are shipped separately from the fixture.



Catalog numbering logic

Alter

Please note that this ordering guide lists all Alter Soft Light numbering logic. The possible combinations and options do not apply to all luminaires. Please refer to the specific luminaire page.

QVS	2	G	PF	OS	3	32	UNV	H3	A
Family	Lumin. width	Ceiling type	Lamp shield with luminaire finish	Lamp shield details	Lamp qty	Lamp type	Voltage	Ballast	Options
QVC = Round Eclipse QVE = Elegance QVB = Slim Square QMF = Metaform SR QVF = Slim Surface QVH = Slim SR QVS = Classic Classic OP Windows SmartVision Louver Metalyte Metalyte Louver QVW = Classic Wall Eclipse Wall Windows Wall QVL = Waves QVA = Air QHE = High-Efficiency QVD = Alter TileLyte QCE = Concept Elegance QCH = Concept SR QCJ = Concept	1 = 12" 2 = 24" 5 = 20"	G = Grid S = Surface T = Slot T-grid Ceiling	GL = Glass Lamp Shield PA = Solid White Perimeter Lamp Shield w/White Mesh Center PC = Solid White Perimeter Lamp Shield w/White Mesh Inner Area and Solid center PF = Microperforated Mesh Lamp Shield PT = Metallic Reflector w/Microperforated Mesh Lamp Shield PG = Microperforated Mesh Lamp Shield w/Titanium Body PW = Microperforated Mesh Lamp Shield w/White Body SG = Solid Titanium Lamp Shield w/Titanium Body SW = Solid White Lamp Shield w/White Body	AD = Asymmetric Distribution CB = Circular lamp shield GB = Clear acrylic w/Blue projected color face GC = Clear acrylic GG = Clear acrylic w/Green projected color face GR = Clear acrylic w/Red projected color face LG = Grey solid flat blade louver LV = White perforated flat blade louver LW = White solid flat blade louver OP = One-Piece lamp shield OB = One-piece lamp shield w/Sensor OS = Open Slot (no acrylic) SQ = Square Windows basket SS = Lateral Wave side shields SR = Lateral Curved side shields	1 = 1 lamp 2 = 2 lamp 3 = 3 lamp 4 = 4 lamp	14 = 2' T5 14W 17 = 2' T8 17W 24 = 2' T5HO 24W 32 = 4' T8 32W FT = TT5 FL = Two TT5 in 2' x 4' TT = TTT Triple Tube 28 = 4' T5 28W 54 = 4' T5HO 54W QT = Quad QT lamp	120 = 120V 277 = 277V UNV = 120-277V	BF = 2 lamps Elec. 55W TT5 BP = 2 lamps Elec. 50W TT5 DA = iGEN DALI DS = iGEN BroadCast 4 Sensor w/iGEN Ballast F4 = Electronic 18W QT 4pin O3 = 3 lamp Electronic T8 Instant start O4 = Electronic 4LPB T8 Instant start PA = PowerSpec HDF dimming Electronic 18W TT5 PB = PowerSpec HDF dimming Electronic 40W TT5 PC = PowerSpec HDF dimming Electronic 50/55W TT5 PD = Electronic Dimming 2x42W TTT 4 pin PG = Electronic T5 Program start PS = PowerSpec HDF dimming Electronic T8 SB = 2 lamps Electronic 40W TT5 SO = 2 lamp Electronic T8 Instant start TC = Electronic 2x32W TTT 4 pin TD = Electronic 2x42W TTT 4 pin X3 = 3 lamps 40W Electronic TT5 HI = Electronic T8 <10THD H3 = 1-3 lamp Electronic T8 <10THD H4 = 1-4 lamp Electronic T8 <10THD	Add appropriate suffix to Cat. no.



Catalog numbering logic

Coffaire (recessed)

Please note that this ordering guide lists all coffaire luminaire numbering logic. The possible combinations and options do not apply to all luminaires. Please refer to the specific luminaire page.

CF	S	2	G	PF	2	32	UNV	HI	A
Family	Body style	Lumin. width	Ceiling type	Shielding	Lamp qty	Lamp type	Voltage	Ballast	Options
CF = Coffaire	A = Air supply and return S = Static H = Air return	1 = 12" 2 = 24"	G = Both Standard Grid and Slot Grid N = 9/16" Narrow T-Grid	PF = Perforated Mesh Shield HP = High performance SQ = Acrylic Lens and Perforated Steel Center Panel	1 = 1 lamp 2 = 2 lamp 3 = 3 lamp	14 = 2' T5 14W 17 = 2' T8 17W 24 = 2' T5HO 24W FT = TT5 28 = 4' T5 28W 32 = 4' T8 32W 54 = 4' T5HO 54W	120 = 120V 277 = 277V UNV = 120-277V	HI = Electronic T8 Instant start H3 = 1-3 lamp Elec. T8 Instant start PG = Electronic T5 Program start PR = Electronic TT5 (40W) Program start BP = 2 lamps Elec. 50W TT5 P2 = Electronic T8 Program start P3 = 1-3 lamp Elec. T8 Program start I3 = 1-3 lamp Elec. TT5 (40W) Instant start	Add appropriate suffix to Cat. no.

Catalog numbering logic

Parabolic (recessed and surface)

Please note that this ordering guide lists all parabolic luminaire numbering logic. The possible combinations and options do not apply to all luminaires. Please refer to the specific luminaire page.



DP	A	2	G	18	L	S	3	32	UNV	H3	A
Family	Body style	Lumin. width	Ceiling type	Number of cells	Louver finish	Mounting method for ballast cover louver	Lamp qty in a lumin. cross section	Lamp type	Voltage	Ballast	Options
DP= Deepcel Plus VR= Vision Smart Recommended ST= Stacklyte LI = Lytecel Individual LC= Lytecel Continuous	A= Air supply and return S= Static B= Surface box	1 = 12" 2 = 24" 6 = 6"	G = Grid (lay-in T bar) T = Slot grid or two-directional concealed T (see options) F = Flange for drywall, plaster or concealed splice S = Surface	8 = 1x8 (1' x 4') 9 = 3x3 (2' x 2') 12 = 2x6 (2' x 4') 3x4 (2' x 2') 1x12(1x4') 16 = 4x4 (2' x 2') 2x8 (2' x 4') 18 = 3x6 (2' x 4') 20 = 1x20(6' x 48") 24 = 2x12(1' x 4') 3x8 (2' x 4') 27 = 3x9 (2' x 4') 29 = 2x9 (2' x 4') 32 = 4x8 (2' x 4')	L = Low iridescence Semi-specular P = Low iridescence Specular	S = Single P = Twin R = Specular reflector	1 = 1 lamp 2 = 2 lamp 3 = 3 lamp 4 = 4 lamp	17 = 2' T8 20 = 2' T12 32 = 4' T8 2U= T8U1.6 6U= T8U6 or T12U6 FT= TT5	120 = 120V 277 = 277V UNV= 120-277V	SO= Electronic T8 O3= 1-3 lamp Electronic T8 O4= 1-4 lamp Electronic T8 SB = Electronic 40W TT5 X3 = 1-3 lamp Electronic 40W TT5 PS = LOL PowerSpec T8 Dimming PB= LOL PowerSpec 40W TT5 Dimming HI = Electronic T8 <10THD H3= 1-3 lamp Electronic T8 <10THD H4= 1-4 lamp Electronic T8 <10THD	Add appropriate suffix to Cat. no.

Catalog numbering logic

Lens (recessed and surface) except XP troffer

Please note that this ordering guide lists all lens luminaire numbering logic. The possible combinations and options do not apply to all luminaires. Please refer to the specific luminaire page.



SP	S	2	G	FS	VA	4	32	UNV	H4	A
Family	Body style	Lumin. width	Ceiling type	Lens frame	Lens/shield type	Lamp qty in a lumin. cross section	Lamp type	Voltage	Ballast	Options
SP = SpecPlus PR = Prismalyte Plus SU= Operating Room Luminaire PN= Prismalyte Box SL = SL Surface box	A= Air supply S= Static B= Surface box	1 = 12" 2 = 24"	G = Grid (lay-in T bar) F = Flange for drywall, plaster or concealed splice S = Surface	FS= Flat steel frame RA= Regressed aluminum frame FA= Flat aluminum frame iridescence RF= Regressed aluminum floating door	VA= Standard (virgin acrylic - see options and consult factory)	1 = 1 lamp 2 = 2 lamp 3 = 3 lamp 4 = 4 lamp 6 = 6 lamp	17 = 2' T8 20 = 2' T12 32 = 4' T8 2U= T8U1.6 6U= T8U6 or T12U6 FT= TT5	120 = 120V 277 = 277V UNV= 120-277V	SO= Electronic T8 O3= 1-3 lamp Electronic T8 O4= 1-4 lamp Electronic T8 SB = Electronic 40W TT5 X3 = 1-3 lamp Electronic 40W TT5 PS = LOL PowerSpec T8 Dimming PB= LOL PowerSpec 40W TT5 Dimming HI = Electronic T8 <10THD H3= 1-3 lamp Electronic T8 <10THD H4= 1-4 lamp Electronic T8 <10THD	Add appropriate suffix to Cat. no.

Surface/wall

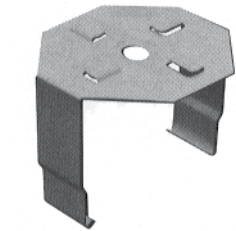
Options & accessories



Radio interference filter

RF = Inductive capacitor circuit designed to minimize interference from line radiation or feedback. 120V or 277V, 50 or 60 Hz. One per fixture.

e.g. **WA4A232120SO** **RF**



Twist tee hanger

NAH3 CSP (SW/KW fixtures)
NAH3D CSP (SD/KD fixtures)

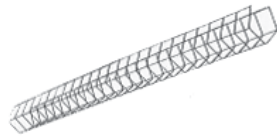
For SW/SD/KW/KD installation of 4 1/8" wide (channel) fixture on exposed "T" grid ceilings on hard surfaces. Provides 1 1/2" clearance from surface.



Cord and plug convenience

CPA (120V) **CPB** (277V) = Factory wired six foot 3-conductor cord with a heavy-duty twist-lock plug with proper NEMA configuration for specified voltage.

e.g. **WA4A232120SO** **CPA**



Wire guards

AWG1W CSP (SN strip)
AWG3W CSP (SW/SD strip)

Hinge and latch positive-lock construction, complete with longitudinal and transverse struts for secure protection. Baked White Enamel.



Fluorescent emergency lighting system

EM = Factory-installed emergency power battery pack with charger and inverter, B100 or equal, 120V or 277V.

e.g. **WA4A232120SO** **EM**



Chain hanger kit

AH5 CSP (SW/SD/KD fixtures)

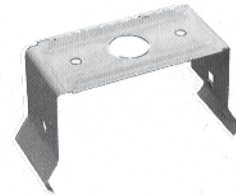
Two 5' heavy duty chains with sturdy "V" hooks that grip fixtures at four knock-out points for level suspension.



Stem and canopy set

ASC6 CSP (6")
ASC12 CSP (12")
ASC18 CSP (18")
ASC24 CSP (24")

Suspends fixture 6", 12", 18" or 24" from surface and can be used in conjunction with Heavy-Duty Slide Grip Hanger.



Heavy duty slide-grip hanger

NAHD CSP (SD/KD fixtures)
NAHW CSP (SW/KW fixtures)

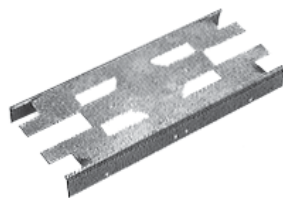
Hinge and latch positive-lock construction, complete with longitudinal and transverse struts for secure protection.



Fusing

A = Internal fast-blow fusing.
C = Internal slow-blow fusing.

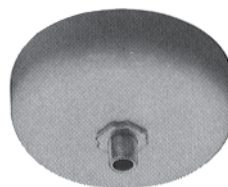
e.g. **WA4A232120SO** **A**



Row couplers

NHDC-W CSP (SD/SW fixtures)

Required to connect, stabilize stem or chain-mounted fixtures used in continuous rows.



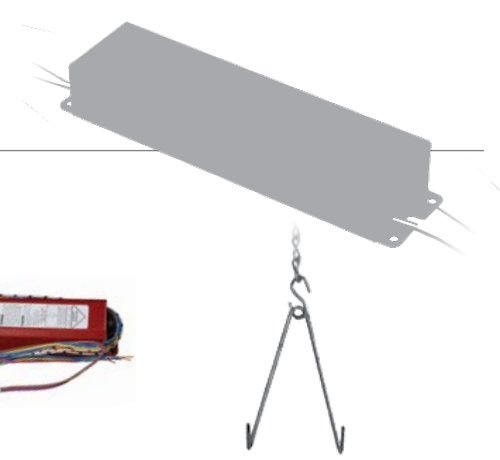
Canopy spacer (1 1/2")

AC1 CSP

Suspends fixture approximately 1 1/2" from surface.

Industrial

Options & accessories



Radio interference filter

RF = Inductive capacitor circuit designed to minimize interference from line radiation or feedback. 120V or 277V, 50 or 60 Hz. One per fixture standard.

e.g: **TU4A232120S0** **RF**



Cord and plug convenience

CPA (120V) **CPB** (277V) = Factory wired six foot 3-conductor cord with a heavy-duty twist-lock plug with proper NEMA configuration for specified voltage.

e.g: **TU4A232120S0** **CPA**



Fluorescent emergency lighting system

EM = Factory-installed emergency power battery pack with charger and inverter, B100 or equal, 120V or 277V.

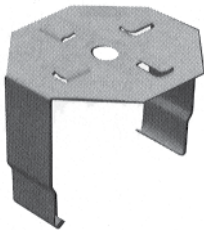
e.g: **TU4A232120S0** **EM**



Chain hanger kit

AH5 CSP (KW/KD fixtures)

Two 5' heavy duty chains with sturdy "V" hooks that grip fixtures at four knock-out points for level suspension.



Twist tee hanger

NAH3 CSP (SW/KW fixtures)
NAH3D CSP (SD/KD fixtures)

For SW/SD/KW/KD installation of 4 1/8" wide (channel) fixture on exposed "T" grid ceilings on hard surfaces. Provides 1 1/2" clearance from surface.



Wire guards

AWG4W CSP (KD/KW fixtures)
LFL - 173 (TU fixtures)

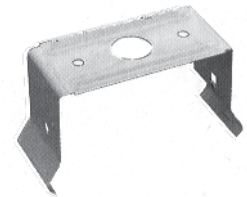
Hinge and latch positive-lock construction, complete with longitudinal and transverse struts for secure protection.



Stem and canopy set

ASC6 CSP (6")
ASC12 CSP (12")
ASC18 CSP (18")
ASC24 CSP (24")

Suspends fixture 6', 12', 18' or 24' from surface and can be used in conjunction with Heavy-Duty Slide Grip Hanger or Ice-Tong Hanger.



Heavy duty slide-grip hanger

NAHD CSP (KD fixtures)
NAHW CSP (KW fixtures)
LFL - 111 (TU fixtures)

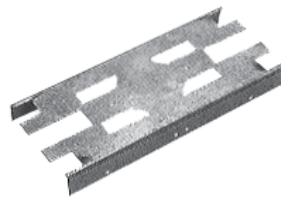
Hinge and latch positive-lock construction, complete with longitudinal and transverse struts for secure protection.



Fusing

A = Internal fast-blow fusing.
C = Internal slow-blow fusing.

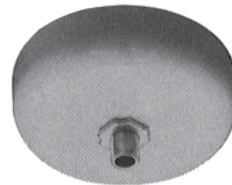
e.g: **TF4A232120S0** **A**



Row couplers

NHDC-W CSP (KD/KW fixtures)

Required to connect, stabilize stem or chain-mounted fixtures used in continuous rows.



Canopy spacer (1 1/2")

AC1 CSP

Suspends fixture approximately 1 1/2" from surface.



Reflector row aligners

KND CSP

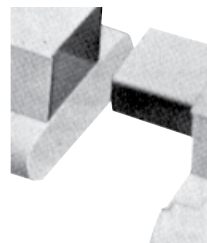
Clear, tough, plastic aligners for KW/KD fixture reflectors.



Reflector row aligners

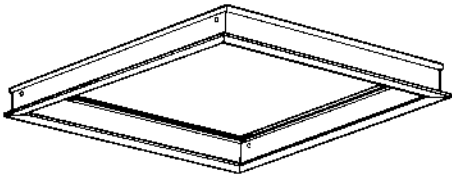
TU - SNA (TU fixtures)

Aluminum joiners clamp reflectors together for straight, permanent alignment. Two aligners are included with all 8' fixtures. For continuous row installations, specify two additional bulk-packed aligners per reflector point.



Housing row couplers

LFL - 3 (TU fixtures)



Drywall kit

For most recessed fixtures

Features

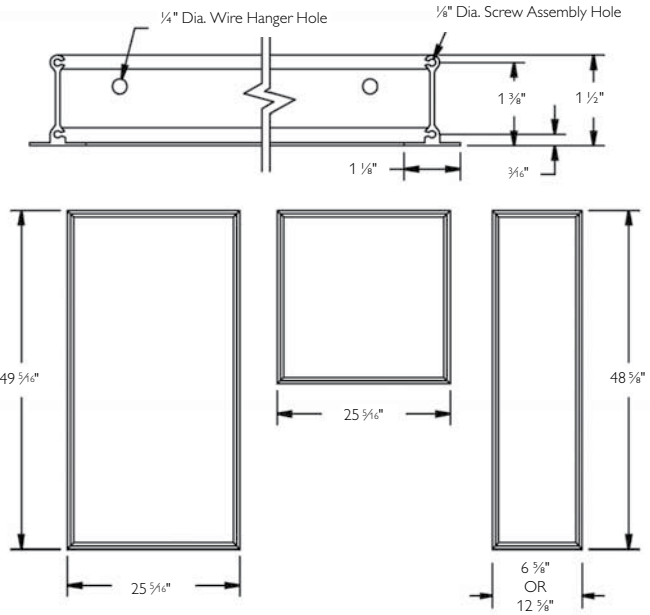
- Designed to permit use of grid (**NEMA G**) fixtures in ceilings requiring flanges.
- May be used with any "G" type Philips Lightolier troffer.
- May be used in conjunction with Philips Lightolier plaster frame.
- Extruded aluminum construction with mitered corners.
- Includes screws for complete assembly.
- **Not for continuous row mounting.**

Ordering information

Catalog number	Fixture Size	Ceiling (cut out) Opening	
		A	B
FK906X4	6" X 48"	6 5/8" (168mm)	48 5/8" (1235mm)
FK91X4	1' x 4'	12 5/8" (321mm)	48 5/8" (1235mm)
FK92X2	2' x 2'	24 5/8" (626mm)	24 5/8" (626mm)
FK92X4	2' x 4'	24 5/8" (626mm)	48 5/8" (1235mm)

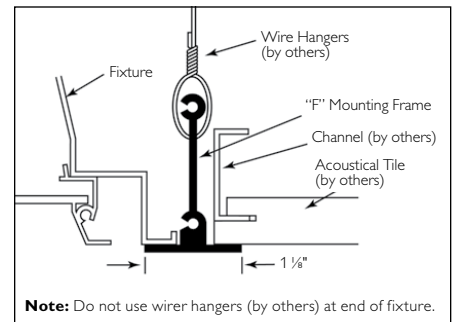
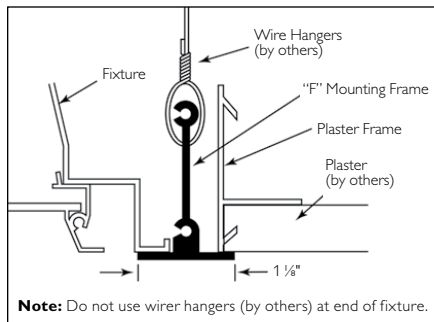
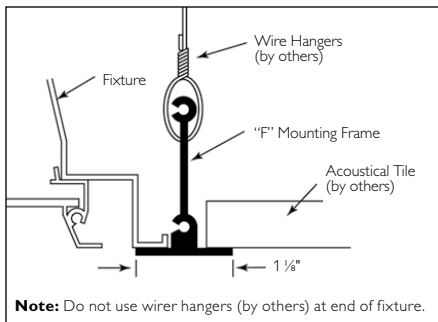
"F" Mounting frame assembly

6" x 48", 1' x 4', 2' x 2', 2' x 4'
For Mounting in Drywall or Ceilings Requiring Flanges



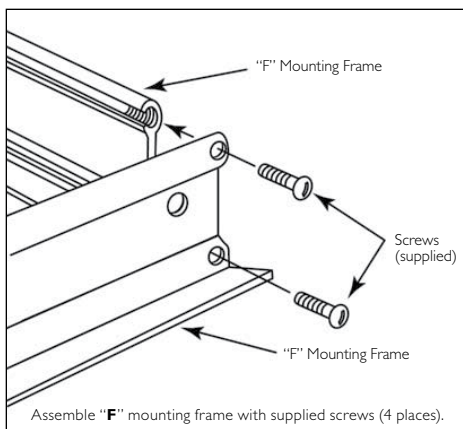
Mounting methods for "F" mounting frame assembly

Note: Do not use wire hangers (by others) at end of fixture.



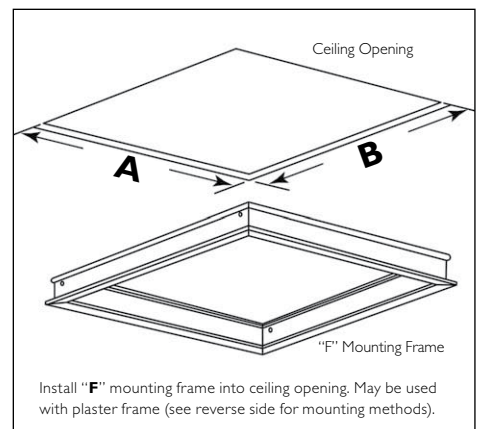
"F" Mounting frame assembly installation instructions

1. Assemble "F" mounting frame with screws supplied (4 places).



Ceiling cut out dimensions

2. Install "F" mounting frame into ceiling opening.
May be used with plaster frame. Install fixture into "F" mounting frame.

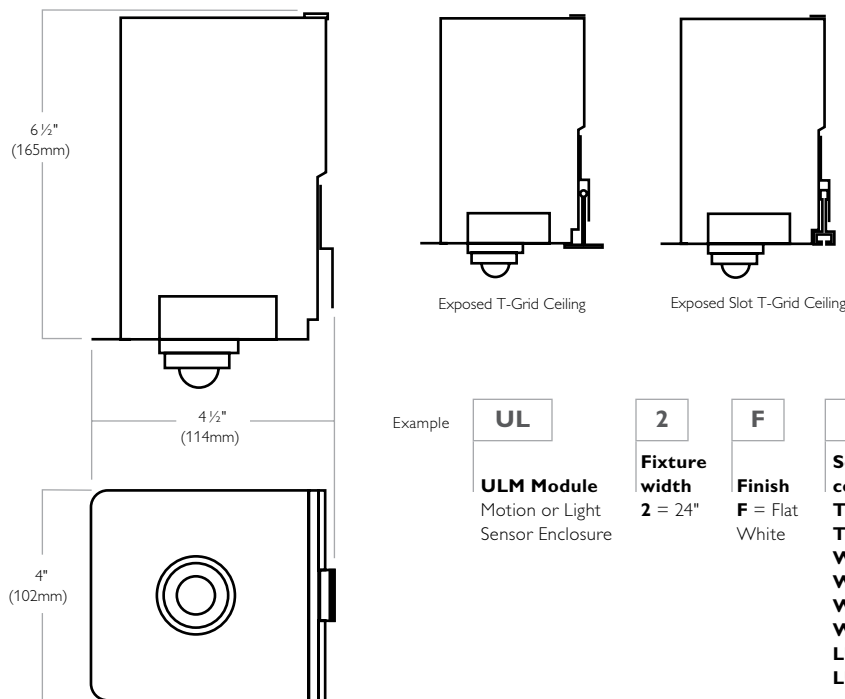


The ULM module

Motion or light sensor enclosure

The Universal Light and Motion (ULM) Module sensor integrates with recessed lighting fixtures. The clean design allows it to blend in nicely with the ceiling system and lighting fixture. The ULM Module is an enclosure that will accommodate most manufacturers motion or daylight sensors in either line or low voltage. It is designed to interface and quick connect to most of our 2x4 and 2x2 recessed lighting fixtures. The ULM Module creates the convenience of being able to build a motion or daylight sensor (produced by others) into any of our recessed fixtures eliminating the potential errors in how the sensors and fixtures are electrically connected. The ULM Module comes packaged complete with the appropriate sensor and can be easily installed and connected to the end of the lighting fixture.

Note: Fixtures and ULM Modules are ordered as separate items. Sensors used and wiring of fixtures will be based on information provided by specifier.



Example	UL	2	F				
	ULM Module	Fixture width	Finish	Sensor code	Manufacturer	Manufacturer part number	Manufacturer Power rating
	Motion or Light Sensor Enclosure	2 = 24"	F = Flat White	TR1	Tridonic	DSI Smart 120V	120V
				TR2	Tridonic	DSI Smart 277V	120V
				WS1	Watt Stopper	FS205	24VDC
				WS2	Watt Stopper	FS305	24VDC
				WS3	Watt Stopper	FS355	120-277VAC
				WS4	Watt Stopper	FS405	24VDC
				LU1	Lutron	C-R-M1-WH	15VDC
				LU2	Lutron	C-SR-M1-WH	15VDC



Features

- Can accommodate most manufacturers light or occupancy sensor switch.
- Line or low voltage.
- Fits standard or slot grid ceiling systems.
- Plug-in connection to mating fixture (ordered separately).
- Secures to ceiling "T" (standard or slot grid).
- Ceiling tile hold-down.
- 18 gauge steel fascia.

Specifications

Materials: 18 gauge cold rolled steel fascia.

Finish: Flat white.

Housing: 24 gauge galvanized steel.

Labels: I.B.E.W.



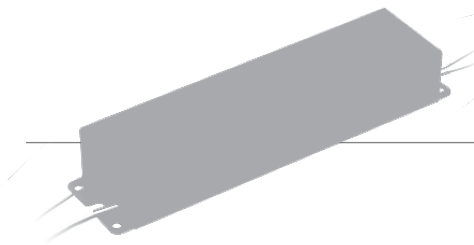
The ULM Module clamps to the ceiling "T" bar and then the fixture is dropped in place. The same ULM Module will fit either standard or slot grid ceilings. Plug-in quick connectors are used for electrical connection of module to fixture.



Housing encloses electrical connections — line or low voltage. Tile is notched and dropped in place.

Mates with 2' x 2' & 2' x 4' recessed fixture products

- Alter Classic (QVS)
- Alter High Efficiency (QHE)
- Alter Louver (QVS-LV)
- Coffaire (CF)
- Deepcel (DP)
- HP90 (H9)
- Opalescent (OP)
- Paraplus (PP)
- Prismalyte (PR)
- Skyway (SKS)
- Specplus (SP)
- Vision Smart 2' x 2' (VR)
- Vision Smart 2' x 4' (VR)



Twin tube T5 ballast code options

22 1/2" Long

Ballast code options

Example of voltage and ballast code fields to be populated within fixture specification sheet.

Example



Voltage

120 = 120V

277 = 277V

UNV = 120-277V



Ballast

Ballast code	Ballast lamp capacity	Type	Ballast factor	THD	Voltage	Wattage	Ballast designation
B3	1 - 3 Lamp	Rapid Start	1.00	<10%	120 or 277	40W	Generic Electronic ¹
BA³	1 or 2 Lamp	Rapid Start	1.00	<10%	UNV	18W	Generic Electronic ¹
BB³	1 or 2 Lamp	Rapid Start	0.95	<10%	UNV	24W	Generic Electronic ¹
BF³	1 or 2 Lamp	Program start	1.00	<10%	UNV	55W	Generic Electronic ¹
BP³	1 or 2 Lamp	Program Rapid Start	0.98	<10%	UNV	50W	Generic Electronic ¹
CD³	1 or 2 Lamp	Instant start	0.88	<10%	UNV	40W	Advance Electronic Centium
CE	1 - 3 Lamp	Instant start	0.88	<10%	UNV	40W	Advance Electronic Centium
CF	1 Lamp	Program start	1.00	<10%	UNV	40W	Advance Electronic Centium IntelliVolt
CT³	1 or 2 Lamp	Program start	1.10	<10%	UNV	50W or 55W	Advance Electronic Centium IntelliVolt
CY	1 - 3 Lamp	Program Rapid Start	0.90	<10%	UNV	50W or 55W	Advance Electronic Centium IntelliVolt
CZ	1 - 4 Lamp	Program Rapid Start	0.90	<10%	UNV	50W or 55W	Advance Electronic Centium IntelliVolt
I3	1 - 3 Lamp	Instant start	0.88	<10%	UNV	40W	Generic Electronic ¹
IB³	1 or 2 Lamp	Instant start	0.88	<10%	UNV	40W	Generic Electronic ¹
M7	1 - 2 Lamp	Program start	1.00 / 0.03	<10%	UNV	40W	Advance Electronic Mark VII Dimming
MW³	1 or 2 Lamp	Program start	0.90 / 0.03	<10%	120 or 277	55W	Advance Electronic Mark VII Dimming
MX³	1 or 2 Lamp	Program start	1.00 / 0.05	<10%	120 or 277	40W	Advance Electronic Mark X Dimming
MZ³	1 or 2 Lamp	Program start	0.90 / 0.05	<10%	120 or 277	55W	Advance Electronic Mark X Dimming
P9³	1 or 2 Lamp	Program start	1.00	<10%	UNV	55W	Generic Electronic ¹ 90°C
PB³	1 or 2 Lamp	Program start	0.95	<10%	UNV	40W	Philips Lightolier Electronic Dimming
PC³	1 or 2 Lamp	Program start	0.90	<10%	UNV	55W	Philips Lightolier Electronic Dimming
PR³	1 or 2 Lamp	Program Rapid Start	1.00	<10%	UNV	40W	Generic Electronic ¹
SB³	1 or 2 Lamp	Instant start	1.00	<20%	120 or 277	40W	Generic Electronic ¹
X3	1 - 3 Lamp	Instant start	0.88	<20%	120 or 277	40W	Generic Electronic ¹

¹ Generic electronic ballast (Advance, Sylvania, Universal, UltraSave or GE) chosen by factory based on availability.

² Ballast factor based on 4' length lamps.

³ Ballast code signifies use of a single 1 lamp ballast in a 2 lamp fixture, a single 1 lamp ballast and a 2 lamp ballast in a 3 lamp fixture and two 2 lamp ballasts in a 4 lamp fixture.

T8 ballast code options

2', 3' and 4' lengths

Ballast code options

Example of voltage and ballast code fields to be populated within fixture specification sheet.

Example

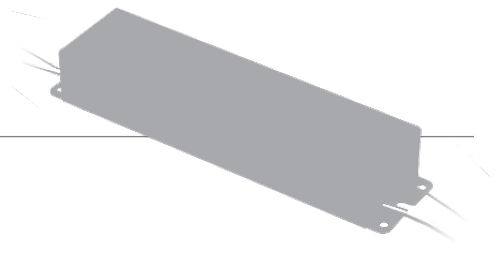
Voltage

120 = 120V

277 = 277V

UNV = 120-277V

Ballast



Ballast code	Ballast lamp capacity	Type	Ballast factor ²	THD	Voltage	Ballast designation
A3	1 - 3 Lamp	Program Rapid Start	0.71	<10%	UNV	Advance Electronic Optanium Low Watt
A4	1 - 4 Lamp	Program Rapid Start	0.71	<10%	UNV	Advance Electronic Optanium Low Watt
A5³	1 or 2 Lamp	Instant start	0.77	<10%	UNV	Advance Electronic Optanium IOPA Low Watt
A6	1 - 3 Lamp	Instant start	0.77	<10%	UNV	Advance Electronic Optanium IOPA Low Watt
A7	1 - 4 Lamp	Instant start	0.77	<10%	UNV	Advance Electronic Optanium IOPA Low Watt
C2³	1 or 2 Lamp	Instant start	0.87	<10%	UNV	Advance Electronic Optanium
C3	1 - 3 Lamp	Instant start	0.87	<10%	UNV	Advance Electronic Optanium
C4	1 - 4 Lamp	Instant start	0.87	<10%	UNV	Advance Electronic Optanium
C5³	1 or 2 Lamp	Instant start	0.77	<10%	UNV	Advance Electronic Optanium Low Watt
C6	1 - 3 Lamp	Instant start	0.77	<10%	UNV	Advance Electronic Optanium Low Watt
C7	1 - 4 Lamp	Instant start	0.77	<10%	UNV	Advance Electronic Optanium Low Watt
C8	1 - 3 Lamp	Program Rapid Start	0.88	<10%	UNV	Advance Electronic Optanium
C9	1 - 4 Lamp	Program Rapid Start	0.88	<10%	UNV	Advance Electronic Optanium
CA³	1 or 2 Lamp	Instant start	0.88	<10%	UNV	Advance Electronic Centium
CG	1 or 2 Lamp	Program Rapid Start	0.88	<10%	UNV	Advance Electronic Optanium
CI	1 - 3 Lamp	Instant start	0.88	<10%	UNV	Advance Electronic Centium
CJ	1 - 4 Lamp	Instant start	0.88	<10%	UNV	Advance Electronic Centium
CK³	1 or 2 Lamp	Program Rapid Start	0.71	<10%	UNV	Advance Electronic Optanium Low Watt
CO³	1 or 2 Lamp	Instant start	1.18	<10%	UNV	Advance Electronic Optanium High Lite Output
H3	1 - 3 Lamp	Instant start	0.88	<10%	UNV	Generic Electronic ¹
H4	1 - 4 Lamp	Instant start	0.88	<10%	UNV	Generic Electronic ¹
H5	1 - 2 Lamp & 1 - 4 Lamp	Instant start	0.88	<10%	UNV	Generic Electronic ¹
H6	2 - 3 Lamp	Instant start	0.88	<10%	UNV	Generic Electronic ¹
HI³	1 or 2 Lamp	Instant start	0.88	<10%	UNV	Generic Electronic ¹
L3	1 - 3 Lamp	Instant start	0.77	<10%	UNV	Generic Electronic ¹ Low Watt
L4	1 - 4 Lamp	Instant start	0.77	<10%	UNV	Generic Electronic ¹ Low Watt
LW³	1 or 2 Lamp	Instant start	0.77	<10%	UNV	Generic Electronic ¹ Low Watt
M4	1 - 4 Lamp (No 17W)	Program start	0.88	<10%	UNV	Advance Electronic Mark VII Dimming
M7³	1 or 2 Lamp	Program start	1.00	<10%	UNV	Advance Electronic Mark VII Dimming
M8	1 - 3 Lamp	Program start	0.88	<10%	UNV	Advance Electronic Mark VII Dimming
MY	1 - 3 Lamp	Program start	1.02	<10%	120 or 277	Advance Electronic Mark X Dimming
P2³	1 or 2 Lamp	Program start	0.88	<10%	UNV	Generic Electronic ¹
P3	1 - 3 Lamp	Program start	0.88	<10%	UNV	Generic Electronic ¹
P4	1 - 4 Lamp	Program start	0.88	<10%	UNV	Generic Electronic ¹
PS³	1 or 2 Lamp	Program start	0.98	<10%	UNV	Philips Lightolier Electronic Dimming
PW	1 - 3 Lamp	Program start	0.98	<10%	UNV	Philips Lightolier Electronic Dimming
PX	1 - 4 Lamp	Program start	0.98	<10%	UNV	Philips Lightolier Electronic Dimming
V2³	1 or 2 Lamp	Program Rapid Start	0.95	<10%	UNV	Generic Electronic Step Dimming ¹

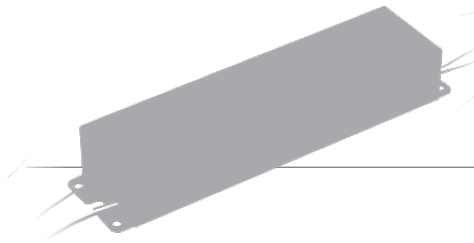
¹ Generic electronic ballast (Advance, Sylvania, Universal, UltraSave or GE) chosen by factory based on availability.

² Ballast factor based on 4' length lamps.

³ Ballast code signifies use of a single 1 lamp ballast in a 2 lamp fixture, a single 1 lamp ballast and a 2 lamp ballast in a 3 lamp fixture and two 2 lamp ballasts in a 4 lamp fixture.

T5 ballast code options

2', 3' and 4' lengths



Ballast code options

Example of voltage and ballast code fields to be populated within fixture specification sheet.

Example



Voltage
120 = 120V
277 = 277V
UNV = 120-277V



Ballast

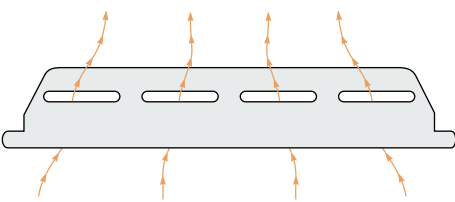
Ballast code	Ballast lamp capacity	Type	Ballast factor	THD	Voltage	Ballast designation
AY	2 Lamp	Program start	0.95	<10%	UNV	Advance Electronic Optanium Step Dimming (28 Watt Only)
CT³	1 or 2 Lamp	Program start	1.00 - 1.03 ²	<10%	UNV	Advance Electronic Centium IntelliVolt
CY	1 - 3 Lamp	Program Rapid Start	1.00	<10%	UNV	Advance Electronic Centium IntelliVolt (54 Watt Only)
CZ	1 - 4 Lamp	Program Rapid Start	0.90	<10%	UNV	Advance Electronic Centium IntelliVolt (54 Watt Only)
MW³	1 or 2 Lamp	Program start	1.00 / 0.03	<10%	120 or 277	Advance Electronic Mark VII Dimming (54 Watt Only)
MZ³	1 or 2 Lamp	Program start	1.00 / 0.05 ²	<10%	120 or 277	Advance Electronic Mark X Dimming (24 or 54 Watt Only)
P5	1 - 3 Lamp	Program start	1.00	<10%	UNV	Generic Electronic ¹ 90°C (54 Watt Only)
P9³	1 or 2 Lamp	Program start	1.00	<10%	UNV	Generic Electronic ¹ 90°C (54 Watt Only)
PF³	1 or 2 Lamp	Program start	1.00 - 1.05 ²	<10%	UNV	Philips Lightolier Electronic Dimming
PG³	1 or 2 Lamp	Program start	1.00 - 1.05 ²	<10%	UNV	Generic Electronic ¹
PU	1 - 3 Lamp	Program start	1.00	<10%	UNV	Generic Electronic ¹ (54 Watt Only)
PV	1 - 4 Lamp	Program start	1.00	<10%	UNV	Generic Electronic ¹ 90°C (54 Watt Only)
VY	2 lamp	Program Rapid Start	0.95	<10%	UNV	Generic Electronic Step Dimming ¹ (14 or 28 Watt Only)
VZ	1 or 2 Lamp	Program Rapid Start	1.15	<10%	UNV	Generic Electronic Step Dimming ¹ (14 or 28 Watt Only)
WA³	1 or 2 Lamp	Instant start	0.93	<10%	120 or 277	Generic Electronic ¹ (28 Watt Only)
WW³	1 or 2 Lamp	Program start	0.95	<10%	UNV	Generic Electronic ¹ (28 Watt Only)
WX³	1 or 2 Lamp	Program start	1.15	<10%	UNV	Generic Electronic ¹ (28 Watt Only)

¹ Generic electronic ballast (Advance, Sylvania, Universal, UltraSave or GE) chosen by factory based on availability.

² Ballast factor based on 4' length lamps.

³ Ballast code signifies use of a single 1 lamp ballast in a 2 lamp fixture, a single 1 lamp ballast and a 2 lamp ballast in a 3 lamp fixture and two 2 lamp ballasts in a 4 lamp fixture.

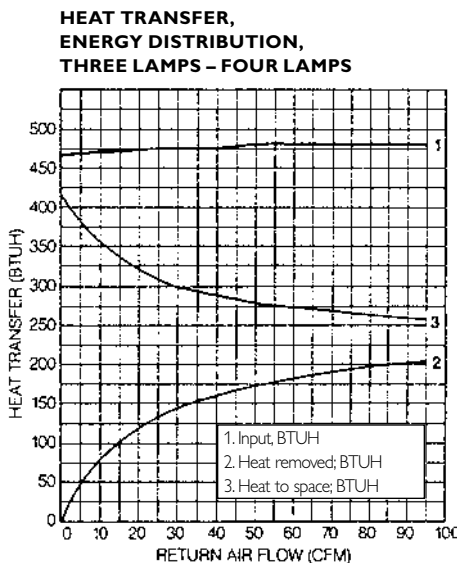
Deepcel 2' x 4' size



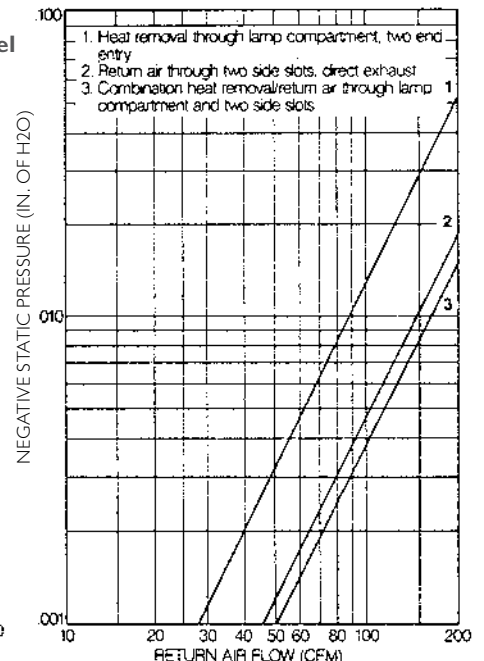
All performance data on the 2' x 4' luminaire is based on a maintained room temperature of 75°F (24°C). Air performance tests were conducted in accordance with Air Diffusion Council (ADC) air diffusing troffer heat removal test code TC-66.

Air handling data

Air return/heat transfer data for Deepcel

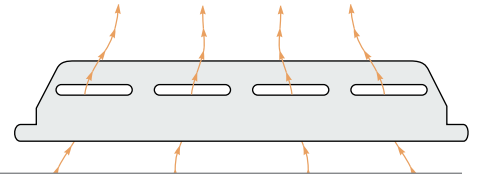


COMBINATION RETURN AIR/HEAT REMOVAL

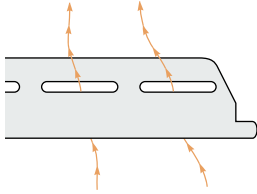


Air handling data

Air return/heat transfer data for Deepcel & Lytecel

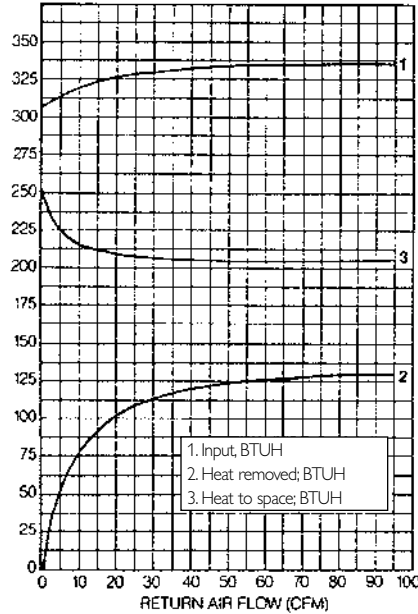


Deepcel 2' x 2' size

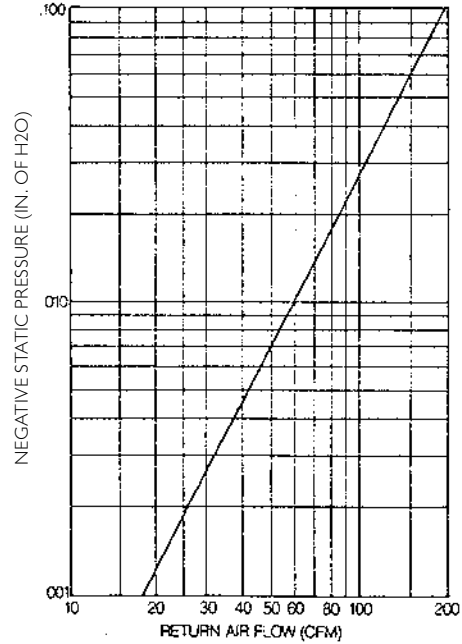


All performance data on the 2' x 2' luminaire is based on a maintained room temperature of 75°F (24°C). Air performance tests were conducted in accordance with Air Diffusion Council (ADC) air diffusing troffer heat removal test code TC-66.

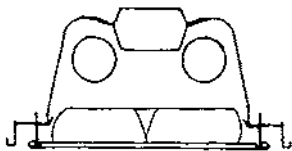
Heat transfer, energy distribution, two lamps



Heat transfer, energy distribution, two lamps



VR 1' x 4' size

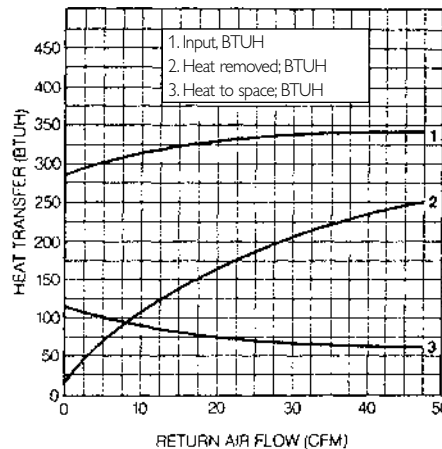


All performance data on the 1' x 4' luminaire is based on a maintained room temperature of 75°F (24°C). Air performance tests were conducted in accordance with Air Diffusion Council (ADC) air diffusing troffer heat removal test code TC-66.

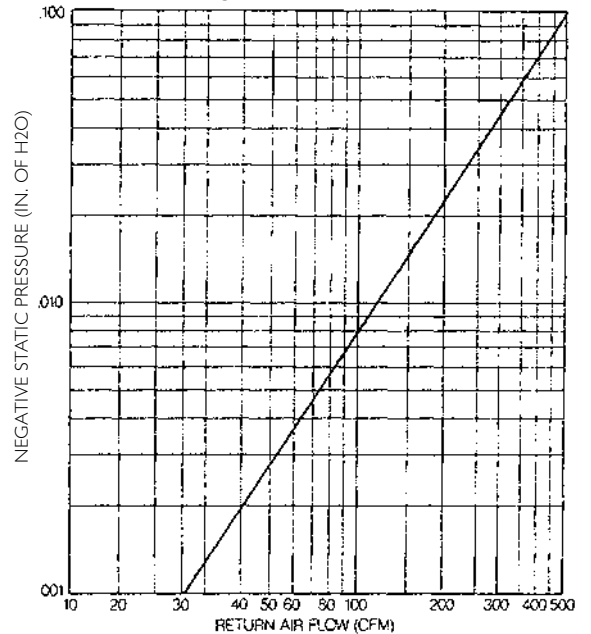
Air handling data

Air return/heat transfer data for VR

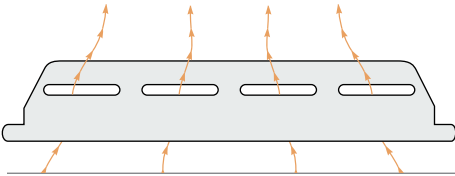
Heat transfer, energy distribution, two F40 lamps



Air return through side slots



*Lytecel 6' x 48"
Air return Information
Is only the Air return through the side slot.
(No heat transfer data to right)

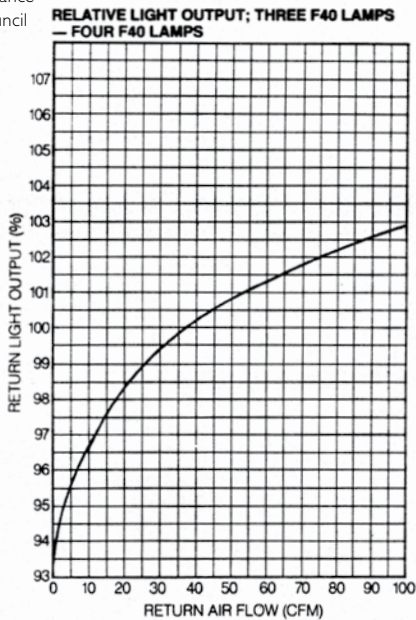
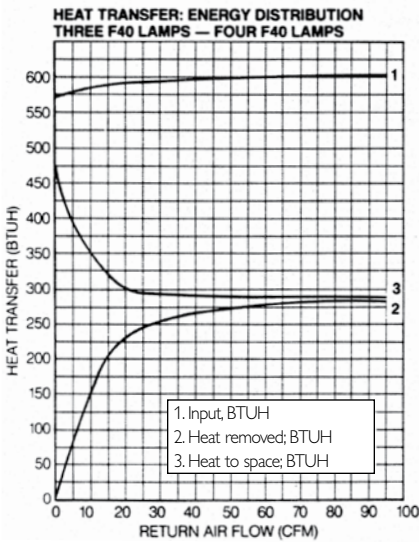


Air handling data

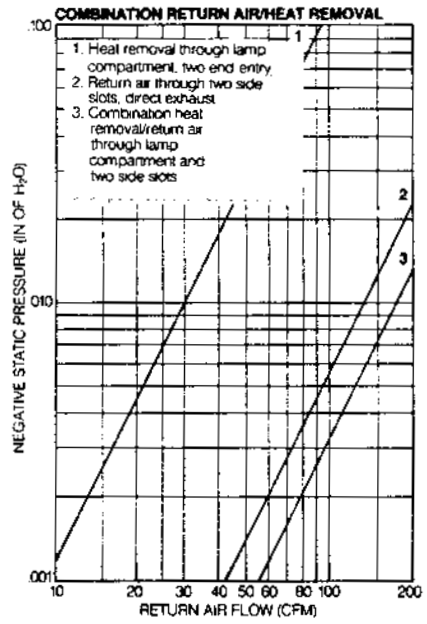
Air return/heat transfer data for Primalyte Plus

2' x 4' size

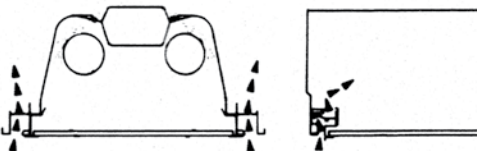
All performance data on the 2' x 4' luminaire is based on a maintained room temperature of 75°F (24°C). Air performance tests were conducted in accordance with Air Diffusion Council (ADC) air diffusing troffer heat removal test code TC-66.



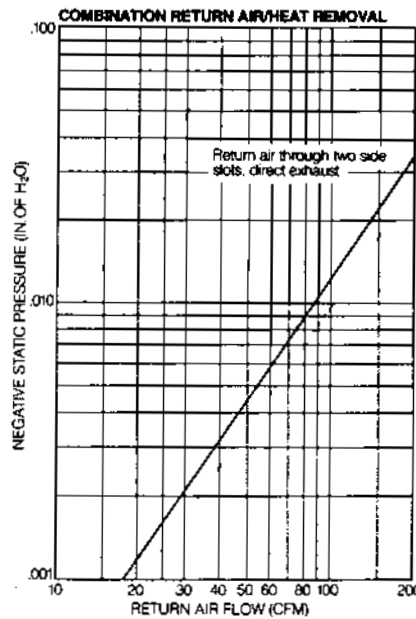
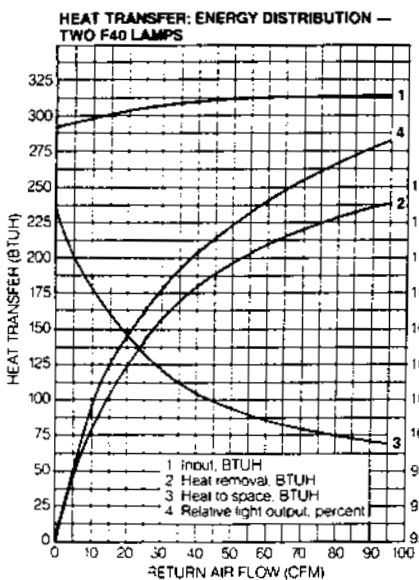
2' x 4' & 2' x 2' size



1' x 4' size



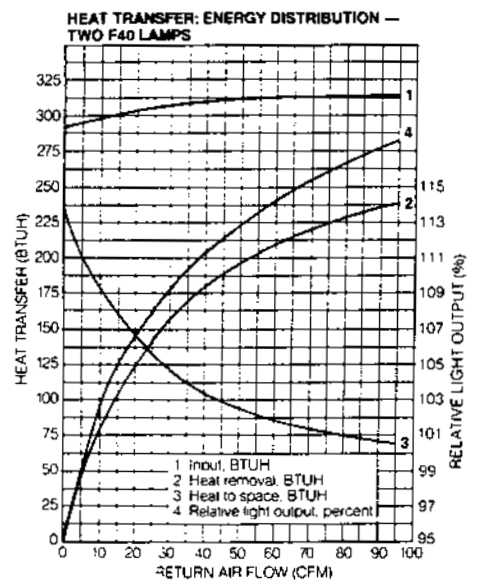
All performance data on the 1' x 4' luminaire is based on a maintained room temperature of 75°F (24°C). Air performance tests were conducted in accordance with Air Diffusion Council (ADC) air diffusing troffer heat removal test code TC-66.



2' x 2' size

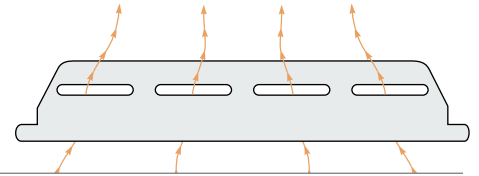


All performance data on the 2' x 2' luminaire is based on a maintained room temperature of 75°F (24°C). Air performance tests were conducted in accordance with Air Diffusion Council (ADC) air diffusing troffer heat removal test code TC-66.

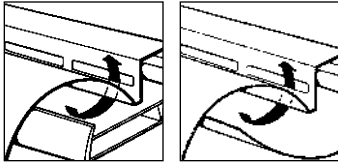


Air handling data

Air return/heat transfer data for Paraplus and Coffaire



2' x 4' size

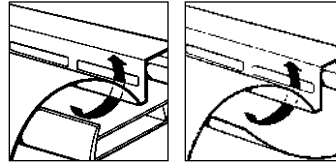


Paraplus

Coffaire

Air performance tests on the 2' x 4' luminaire were conducted with procedure described in I.E.S. Journal, Summer 1987, Vol. 16, No. 2, Pages 21-31 by Building Acoustics Lighting Laboratories, Inc.

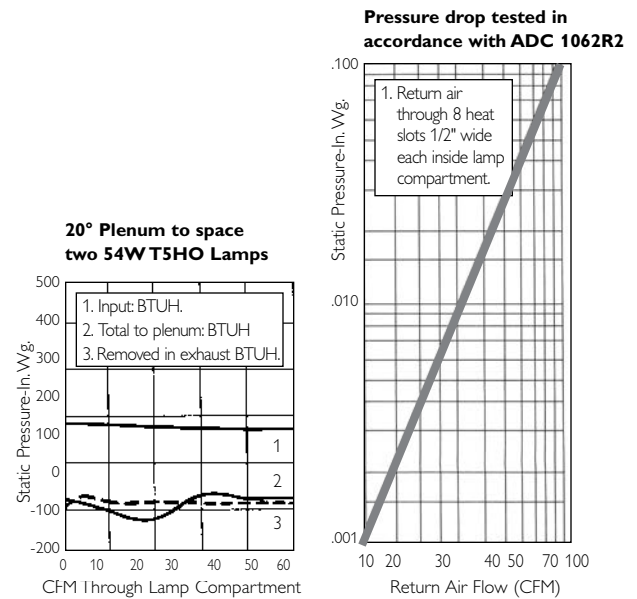
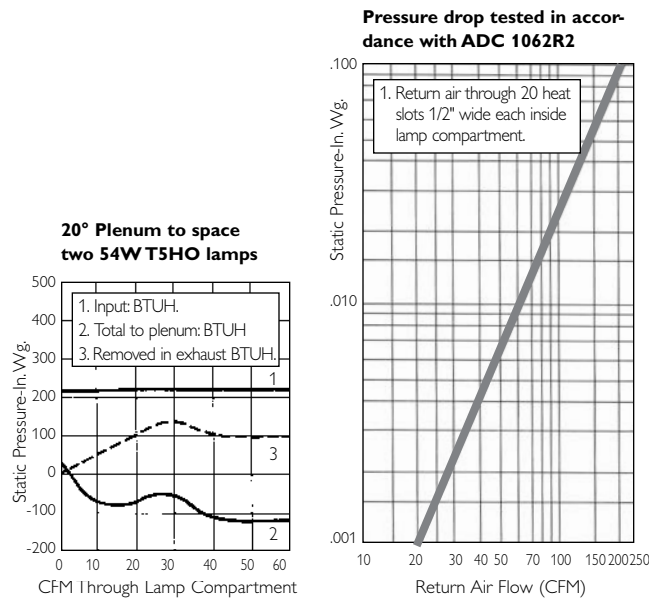
2' x 2' size



Paraplus

Coffaire

Air performance tests on the 2' x 2' luminaire were conducted with procedure described in I.E.S. Journal, Summer 1987, Vol. 16, No. 2, Pages 21-31 by Building Acoustics Lighting Laboratories, Inc.



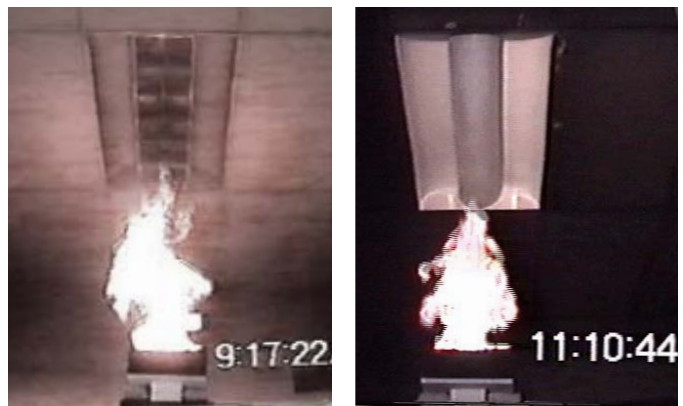
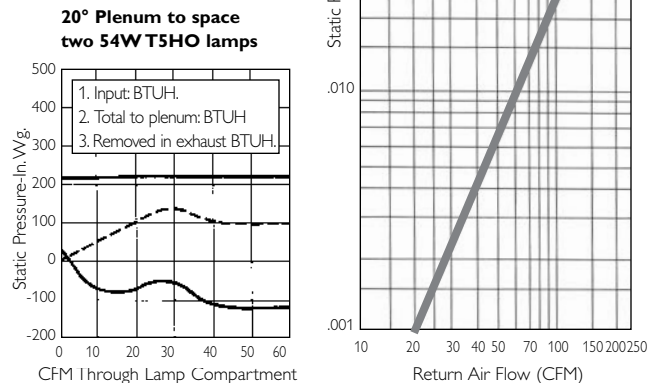
1' x 4' size



Paraplus

Coffaire

Air performance tests on the 1' x 4' luminaire were conducted with procedure described in I.E.S. Journal, Summer 1987, Vol. 16, No. 2, Pages 21-31 by Building Acoustics Lighting Laboratories, Inc.



Paraplus and Coffaire with air return meets the requirements of UL 1598, Paragraph 9.2.2.5, Large scale fallout tested in accordance with the fire test described in Paragraph 9.2.3.2.2., and is UL (Underwriters Laboratories) listed under File R5892, Vol. 1, Section 4, dated 11/16/2001.