



NYC

Compliant Product Selection Guide

Columbia
LIGHTING

COLUMBIA LIGHTING ENERGY SOLUTIONS INITIATIVE

createchange is our commitment to meeting the challenges and opportunities posed by rising energy costs, environmental concerns, energy legislation, LEED certification, utility rebates, and EPC Act tax deductions. It is a product philosophy dedicated to development of innovative, high performance luminaires.

To receive the createchange® trademark, a product must meet three criteria.

When compared to fixtures traditionally used in lighting applications, createchange luminaires must:

1. Save at least 20% in energy
2. Maintain lighting quality
3. Maintain light levels

We achieve these goals through innovative design that optimizes performance through our choice of lamp, ballast, reflector, refractor, and control technologies, to create ultra-high efficiency luminaires that deliver proper light levels and distribution at the lowest possible wattage.

ENERGY BENEFITS

Energy efficient lighting solutions can help cut lighting costs by up to 52% without sacrificing light levels; even higher savings can be realized when combined with lighting controls.

- createchange® lighting solutions typically pay for themselves in under two years when installed in new buildings.
- createchange® solutions costs are often recouped in one to three years following installation in a remodel project.
- createchange® solutions, if used wherever possible, would lower the nation's electrical demand by over 10%, saving ratepayers nearly \$17 billion annually.

COLLATERAL BENEFITS

EPA Act

createchange® energy solutions can help leverage federal tax deductions by up to \$0.60 per square foot when meeting guidelines established by the Energy Policy Act of 2005.

LEED

Reducing power demand is the largest single consideration when applying for LEED certification. createchange® energy solutions help achieve that goal.

Utility Rebates

Many electrical utilities offer substantial rebates for energy-efficient lighting. createchange® energy solutions typically qualify, in many cases completely defraying most or all of the cost of the fixture.

ENVIRONMENTAL BENEFITS

The use of createchange® energy solutions contributes significantly to the reduction of greenhouse gases. If just the estimated 50 million 400W metal halide high bays and 100 million 3-lamp parabolics in use today were converted to their createchange equivalents, we could save 43 million metric tons of CO₂ emissions annually—an amount equal to 1.7% of all CO₂ caused by the generation of electricity in the U.S. This equates to taking 7.8 million cars off the road. Replacing troffers and other fixtures that use outdated technology could save far greater amounts.

A rapid transition to energy efficiency and renewable energy sources will combat global climate change, protect human health, create new jobs, protect wildlife habitats, and ensure a secure, affordable energy future.

NEMA PREMIUM BALLAST STANDARD

Columbia Lighting is making it even easier for customers to choose energy-efficient, rebate-qualified T8 luminaires. NEMA Premium ballasts are now standard in all F32T8 fixtures. All factory choice ballast options for F32 full wattage or reduced wattage lamp types use ballasts meeting NEMA Premium and CEE (Consortium for Energy Efficiency) standards.

For more createchange® information, visit www.columbialighting.com

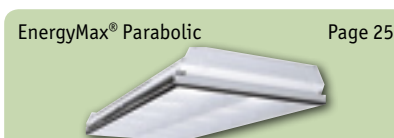
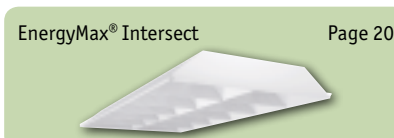


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LAW

Low Profile LED Wraparound

LED

NEW



FEATURES

- LED Wraparound
- Long-life 50,000 hour LEDs at L70 for reduced maintenance
- Choice of two LED color temperatures
- Choice of two lumen packages
- Available in 2' or 4' lengths
- Optional integral emergency battery pack
- Heavy gauge steel housing, die embossed for maximum rigidity
- White steel end plates
- Diffuser features flat bottom and vertical sides
- Hinges from either side
- LED boards and driver accessible for future maintenance or upgrades; modular, replaceable
- DesignLights Consortium® (DLC) qualification pending; see www.designlights.org
- Surface Mount or Suspended
- For narrow corridor wrap with matching appearance use LRO*
- 5 year warranty (Terms and Conditions Apply)

*Coming winter 2014

ORDERING INFORMATION

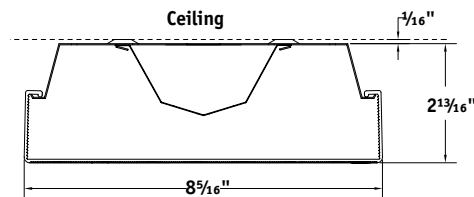
MODEL	SIZE	COLOR TEMP	LUMEN OUTPUT	DRIVER	VOLTAGE	OPTIONS
LAW LED Wraparound	2 2' 4 4'	35 3500K 40 4000K	LW Low Watt ML Medium Lumen See Product Availability Table below.	E Fixed Output ESD Step Dimming ED 0-10V Dimming	U 120V-277V	ELL14 Emergency Battery Pack Installed, 1400 Lumens ¹ GLR Fast Blow Fuse PAF Paint After Fabrication NYC NYC Compliant

ACCESSORIES (ORDER SEPARATELY)

S18 18" Stem, Canopy

SS18 18" Swivel Stem—45° Swivel

¹ For compatibility with Dual-Lite LiteGear® inverters in lieu of installed Battery Pack, contact Hubbell Lighting Representative.



PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS (3500K)	NOMINAL WATTS
2'	LW	2400	25
	ML	4400	51
4'	LW	2400	25
	ML	4400	51

Actual lumens will vary according to color temperatures and other factors. For exact lumens and watts see specific photometric test(s).



LED

FEATURES

- LED Open Striplight
- Long-life 50,000 hour LEDs at L70 for reduced maintenance
- Choice of two LED color temperatures
- Choice of four lumen packages per size
- Available in 4' or 8' lengths
- Optional integral emergency battery pack
- Heavy die-formed steel channel
- Fully assembled fixture for easy installation
- LED boards and driver accessible for future maintenance or upgrades
- Modular replaceable LED components
- Surface Mount or Suspended
- For narrow lens LED striplight use LRO or LPT*
- 5 year warranty (Terms and Conditions apply)

*Coming winter 2014

ORDERING INFORMATION

MODEL	SIZE	COLOR TEMP	LUMEN OUTPUT	DRIVER	VOLTAGE	OPTIONS
LCS LED Striplight	4 4' 8 8'	35 3500K 40 4000K	LW Low Watt ML Medium Lumen HL High Lumen VL Very High Lumen <small>See Product Availability Table below.</small>	E Fixed Output ESD Step Dimming ED 0-10V Dimming	U 120V-277V	ELL14 Emergency Battery Pack Installed, 1400 Lumens ¹ GLR Fast Blow Fuse PAF Paint After Fabrication NYC NYC Compliant

ACCESSORIES (ORDER SEPARATELY)

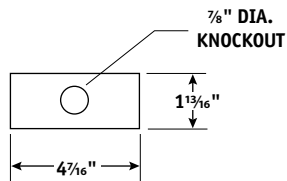
- CSWG4 4' Wire Guard
- S18 18" Stem, Canopy
- SS18 18" Swivel Stem—45° Swivel
- CSHC Chain Hanger Assembly

¹ For compatibility with Dual-Lite LiteGear® inverters in lieu of installed Battery Pack, contact Hubbell Lighting Representative.

PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS (3500K)	NOMINAL WATTS
4'	LW	2,800	27
	ML	5,600	53
	HL	6,800	61
	VL	11,200	106
8'	LW	5,600	53
	ML	11,200	106
	HL	13,600	122
	VL	22,400	212

Actual lumens will vary according to color temperature and other factors. For exact lumens and watts see specific photometric test(s).



LSER

Serrano® LED Architectural Luminaire with Advanced Solid State Technology

LED





wiHUBB createchange

FEATURES

- Up to 101 lumens per watt
- Long-life, 50,000 hour LEDs at L80 reduce life cycle maintenance costs
- Two lumen package choices
 - Low Watt offers maximized energy savings
 - High Lumen offers maximized lumen output
- Superior color consistency within a 3-step MacAdam ellipse and greater than 80 CRI
- Rigorous testing and QR code record
- Lens design and materials provide uniform appearance without pixilation
- Hinged optical system allows easy access to replaceable/upgradeable LED modules and electrical from below the ceiling
- Architecturally enhanced triple lens design
- Lenses interlock for structural integrity
- Two optional lens aesthetics
- Most configurations produce low W/ft2 to meet the most restrictive lighting power density codes
- Available with exclusive wiHUBB technology preinstalled
 - Peer to peer, self-healing wireless mesh network
 - Integrated control system for 0-10VDC or step dimming, or On/Off

ORDERING INFORMATION

LSER						U	
MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS	
LSER Serrano® LED Architectural Luminaire	35 3500K 40 4000K	G Grid SM Surface Mount ¹ For hard ceilings use flange kit accessory.	C Contour  R Rail 	E Fixed Output ED 0-10V Dimming	U 120V-277V	C388 3-Wire Flex GLR Fast Blow Fuse NYC NYC Compliant WIH wiHUBB Enabled ²	
SIZE	LUMEN OUTPUT						
14 1' x 4'	HL High Lumen						
22 2' x 2'	LW Low Watt						
24 2' x 4'							

¹ 1' x 4' Surface Mount available Q1 2013.

² Not available with Surface Mount ceiling types.

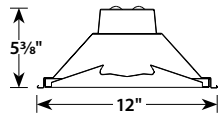
Damp Label - standard

ACCESSORIES (ORDER SEPARATELY)

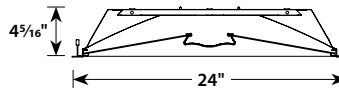
- FK14** 1' x 4' Single Flange Kit
- FK22** 2' x 2' Single Flange Kit
- FK24** 2' x 4' Single Flange Kit
- FKCR** Flange Kit Row Adaptor

PRODUCT AVAILABILITY

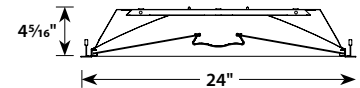
SIZE	OUTPUT	NOMINAL LUMENS
1' x 4'	LW	4000
	HL	6600
2' x 2'	LW	2100
	HL	3200
2' x 4'	LW	4300
	HL	6400



LSER14



LSER22



LSER24

e•poc® LED Full Distribution Luminaire with Advanced Solid State Technology

FEATURES

- High-performance LED luminaire jointly developed by Columbia Lighting and Universal Lighting Technologies/Panasonic
- Long-life, 50,000 hour LEDs at L80 reduce life cycle maintenance costs
- Superior color consistency to a 3-step MacAdam ellipse and 82 CRI
- Full distribution provides controlled high angle light for visual comfort
- Lens design and materials provide uniform appearance without pixilation
- Unique frameless optical system and modular electrical system allow for easy LED module or driver replacement from below the ceiling
- Most configurations produce low W/ft² to meet the most restrictive lighting power density codes
- Available with exclusive wiHUBB technology preinstalled
 - Peer to peer, self-healing wireless mesh network
 - Integrated control system for 0-10VDC or step dimming, or On/Off
- Five year warranty. (Terms and Conditions Apply)
- U.S. Transformed



wiHUBB createchange

LED

ORDERING INFORMATION

LEPC													
MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	AIR FUNCTION	DRIVER	OPTIONS							
LEPC e•poc® LED Full Distribution Luminaire	35 3500K 40 4000K	G Grid SM Surface Mount For hard ceilings use flange kit accessory.	LL Low Lamp Image	Blank Static A Air Return Side Slots (N/A 1 x 4)	ESD Fixed Output/Step Dimming ¹ ED 0-10V Dimming	C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex EL Emergency Battery Pack ² (only available for 60 hz) GLR Fast Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled ³ RM Row Mount							
SIZE	LUMEN OUTPUT				VOLTAGE								
14 1' x 4'	1 x 4, 2 x 2				U 120V-277V								
22 2' x 2'	22 2200 Lumens (nominal)												
24 2' x 4'	33 3300 Lumens (nominal)												
	2 x 4												
	44 4400 Lumens (nominal)												
	66 6600 Lumens (nominal)												

¹Can be converted to fixed output by tying the hot leads together

²Contact factory for specific model compatibility

³Not available with Surface Mount ceiling types.

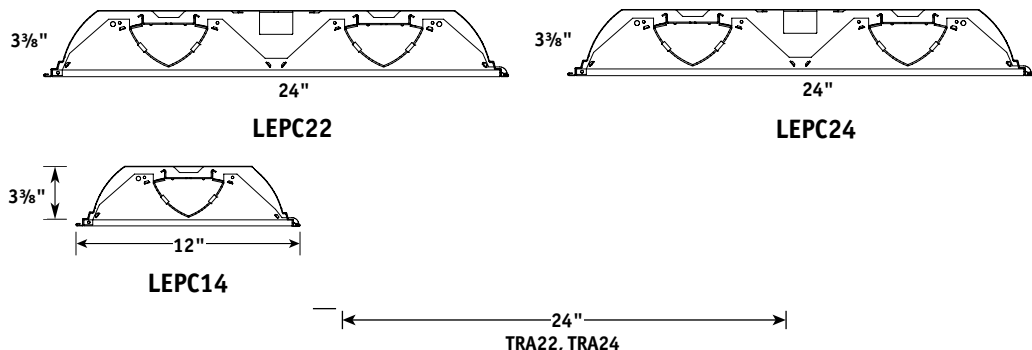
Damp Label - standard

ACCESSORIES (ORDER SEPARATELY)

- FK14 1' x 4' Single Flange Kit
- FK22 2' x 2' Single Flange Kit
- FK24 2' x 4' Single Flange Kit
- FKCR Flange Kit Row Adaptor

PRODUCT AVAILABILITY

SIZE	COLOR TEMP	LUMEN OUTPUT
14	3500	2200
		3300
	4000	2200
		3300
22	3500	2200
		3300
	4000	2200
		3300
24	3500	4400
		6600
	4000	4400
		6600



LLT

LED Lensed Troffer with Advanced Solid State Technology

LED



wiHUBB createchange

FEATURES

- Full distribution provides controlled high angle light for visual comfort
- Long-life, 50,000 hour LEDs at L80 reduce life cycle maintenance costs
- Lens design and materials provide uniform appearance without pixilation
- Choice of two lens options
- Choice of three door frame options
- Three color choices with excellent color consistency and 82 CRI
- Fixed output, step dimming, or 0-10V dimming drivers available
- Hinged optical system allows easy access to LED modules and electrical from below the ceiling
- Low W/R² ratio typically meets the most restrictive lighting power density codes
- Typically qualifies for EPACT tax deductions
- DesignLights™ Consortium (DLC) qualification pending
- Available with exclusive wiHUBB technology preinstalled
 - Peer to peer, self-healing wireless mesh network
 - Integrated control system for 0-10VDC or step dimming, or On/Off
- Five year warranty (Terms and Conditions Apply)

ORDERING INFORMATION

LLT							U	
MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS		
LLT LED Lensed Troffer	30 3000K 35 3500K 40 4000K	G Grid SM Surface Mount For hard ceilings use flange kit accessory.	A12F Pattern 12 Frosted Acrylic Lens A19F Pattern 19 Frosted Acrylic Lens .156"	E Fixed Output ESD Step Dimming ED 0-10V Dimming	U 120V-277V	C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse NYC NYC Compliant WIH wiHUBB ^{2,3} SLL Spring Loaded Latches		
SIZE	LUMEN OUTPUT	DOOR						
14 1' x 4' 22 2' x 2' 24 2' x 4'	LW Low Watt ML Medium Lumen HL High Lumen ¹ VL Very High Lumen ¹	FS White Flush Steel FA White Flush Aluminum RA White Regressed Aluminum For more door options contact factory.						

ACCESSORIES (ORDER SEPARATELY)

- FK14** 1' x 4' Single Flange Kit
- FK22** 2' x 2' Single Flange Kit
- FK24** 2' x 4' Single Flange Kit
- FKCR** Flange Kit Row Adaptor (All Sizes)

¹ 1x4 and 2x2 only.

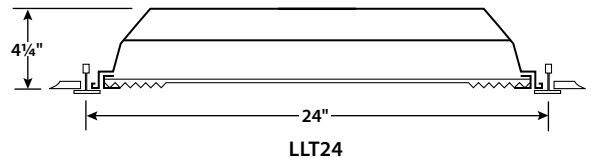
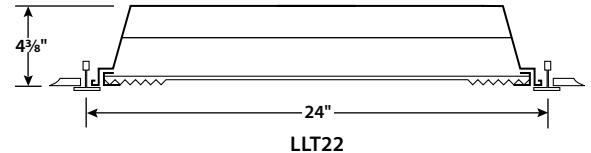
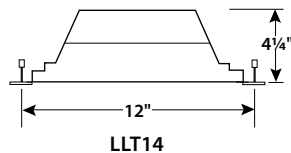
² Not available with Surface Mount ceiling types.

³ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

Damp Label - standard

Product Availability — Nominal Lumens

Size	LW	ML	HL	VL
1 x 4	1950	2400	3100	3800
2 x 2	2100	2500	3300	4000
2 x 4	3900	4700		



Transition® Enclosed LED High Efficiency Architectural Lensed

FEATURES

- Enclosed high efficiency lens features linear prism acrylic for high performance without pixelation
- Appropriate for schools, medical, dining areas, locker rooms, and public spaces
- Enclosed lens resists intrusion of contaminants
- High performance matte white paint standard
- Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces
- Optional lens gasket surrounds lamp cavity
- Wet Location listing available
- Long Life, 50,000 hour LEDs at L80 reduce life cycle maintenance costs
- Three color choices with excellent color consistency and 82 CRI
- LED modules and electrical accessible from below
- Quality assurance with QR code
- DesignLights Consortium® (DLC) qualified; see www.designlights.org
- Available with exclusive wiHUBB technology preinstalled
- Five year warranty (Terms and Conditions Apply)



ORDERING INFORMATION

LTRE	-		-		-	RFA	-		-	U	-	
MODEL	COLOR TEMPERATURE	CEILING TYPE	DRIVER	OPTIONS	SIZE	LUMEN OUTPUT	SHIELDING	VOLTAGE				
LTRE Transition® LED Enclosed High Efficiency Architectural Lensed	30 3000K 35 3500K 40 4000K	G Grid Lay-in ¹ SM Surface Mount CM Cable/Suspended Mount ²	E Fixed Output ESD Fixed Output/Step Dimming ³ ED 0-10V Dimming	ELL14 Emergency Battery Pack, 1400 Lumens ^{4,5} C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex GLR Fast Blow Fuse AM Antimicrobial® Paint ⁶ G1 Lens Gasketing WL Wet Label ^{7,8} NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled ^{7,8} EOR End of Row (SM and CM only. Provides end wiring access for continuous row mounting.) INT Intermediate (SM and CM only. Provides end wiring access for continuous row mounting.)	22 2' x 2' 24 2' x 4'	LW Low Watt ML Medium Lumen HL High Lumen VL Very High Lumen See Product Availability Table below.	RFA Ribbed Frosted Acrylic	U 120V-277V				

¹ For drywall order FK22 or FK24 accessories separately.
² Order hanger accessories separately.
³ Can be converted to fixed output by tying hot leads together.
⁴ For compatibility with Dual-Lite LiteGear® inverters, contact Hubbell Lighting Representative.
⁵ Not available on 2x2 SM or CM ceiling types.
⁶ Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces.
⁷ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.
⁸ Not available on Surface Mount Ceiling Types.

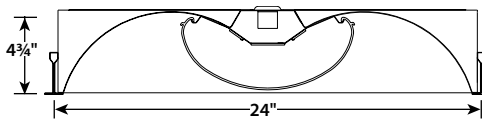
For questions about configuration options, contact Hubbell Representative.

ACCESSORIES (ORDER SEPARATELY)	
FK22	2' x 2' Flange Kit
FK24	2' x 4' Flange Kit
CM48Y2SC3F-KIT	48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire

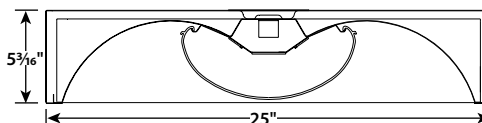
PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS (3500K)	NOMINAL WATTS
22	LW	2300	25
	ML	2800	30
	HL	3600	40
24	VL	4400	51
	LW	3750	40
	ML	4600	52

For exact lumens and watts see specific photometric test(s)



LTRE22, 24 LED Grid



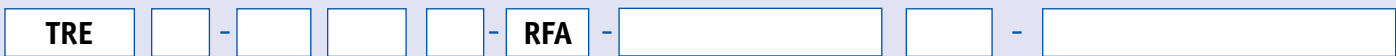
LTRE22, 24 LED Surface Mount



FEATURES

- Enclosed high transmission acrylic lens features linear prisms with lamp-obscuring frost to provide visual comfort with high performance
- Appropriate for schools, medical, dining areas, locker rooms, and public spaces
- Enclosed lens protects against intrusion of contaminants
- High performance matte white paint standard, Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces
- T8, T5, T5HO or Twin Tube; for LED see LTRE
- Wet Location listing available
- Optional lens gasket surrounds lamp cavity
- Grid, Surface, or Cable Mount
- Controls compatible for code compliance and energy savings
- UL listed 1598, cUL or CSA, Damp Location Listed
- Available with exclusive wiHUBB technology preinstalled

ORDERING INFORMATION



MODEL
TRE Transition® Enclosed High Efficiency Architectural Lensed

NO. OF LAMPS IN CROSS SECTION
1 One
2 Two
3 Three
See Product Availability Table below

CEILING TYPE
G Grid Lay-in¹
SM Surface Mount
CM Cable/Suspended Mount²

BALLAST
E Electronic T8, Instant Start
ESD Electronic Step Dimming for 2-Lamp 14W, 17W, 28W, or 54W only³
ED Electronic Dimming T8, T5, and T5HO
EP Electronic T5, T5HO, or T8, Programmed Start
ETT Electronic Twin Tube, Instant Start
EPTT Electronic Twin Tube, Programmed Start
3E 3-Lamp Electronic T8, Instant Start
3EP 3-Lamp Electronic T8, Programmed Start
ELW 2-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start
3ELW 3-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start
E104 Electronic T8, 1.04 Ballast Factor, Instant Start
ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start^{3,4}

VOLTAGE
U 120V-277V
347 347V

OPTIONS
EL Emergency Battery Pack, T8
EL5 Emergency Battery Pack, T5
F0730 30K 75CRI T8 Lamps Installed
F0735 35K 75CRI T8 Lamps Installed
F0741 41K 75CRI T8 Lamps Installed
F0830 30K 82CRI T8 Lamps Installed
F0835 35K 82CRI T8 Lamps Installed
F0841 41K 82CRI T8 Lamps Installed
F5830 30K 85CRI T5 or T5HO Lamps Installed
F5835 35K 85CRI T5 or T5HO Lamps Installed
F5841 41K 85CRI T5 or T5HO Lamps Installed
F028830 30K 82CRI 28W T8 Lamps Installed⁵
F028835 35K 82CRI 28W T8 Lamps Installed⁵
F028840 41K 82CRI 28W T8 Lamps Installed⁵
FTT830 30K 82CRI 40W TT Lamps Installed
FTT835 35K 82CRI 40W TT Lamps Installed
FTT841 41K 82CRI 40W TT Lamps Installed

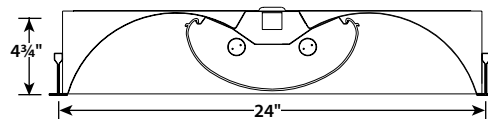
SIZE	LAMP TYPE	SHIELDING
22 2' x 2'	14 2', T5; 14 Watt	RFA Ribbed Frosted Acrylic
24 2' x 4'	17 2', T8; 17 Watt	
	24 2', T5HO; 24 Watt	
	28 4', T5; 28 Watt	
	32 4', T8; 32, 30, 28 or 25 Watt	
	40TT 2', Twin Tube Compact, 2G11 Base: 40 Watt	
50TT 2', Twin Tube Compact, 2G11 Base: 40 Watt	54 4', T5HO, 54 Watt	

¹ For drywall order FK22 or FK24 accessories separately.
² Order hanger accessories separately.
³ Can be converted to fixed output by tying hot leads together.
⁴ Not compatible with T8 25, 28, or 30 watt energy savings lamps.
⁵ Not recommended for use with step or full dimming.
⁶ Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces.
⁷ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.
⁸ Not available on Surface Mount Ceiling Types.
⁹ Not available on Cable Mount Ceiling Types.

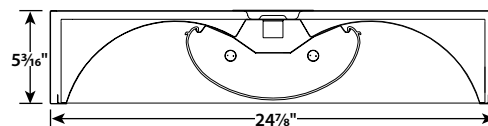
For questions about configuration options, contact Hubbell Representative.

ACCESSORIES (ORDER SEPARATELY)

- FK22 2' x 2' Flange Kit
- FK24 2' x 4' Flange Kit
- CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire
- C388 3-Wire Flex
- C488 4-Wire Flex
- AM Antimicrobial® Paint⁶
- WL Wet Label^{8,9}
- G1 Lens Gasketing
- NYC NYC Compliant
- NYCU NYC Compliant, Union Label
- WIH wiHUBB Enabled^{7,8}



TRE22, 24 2-Lamp T8 Grid



TRE22, 24 2-Lamp T5 Surface Mount

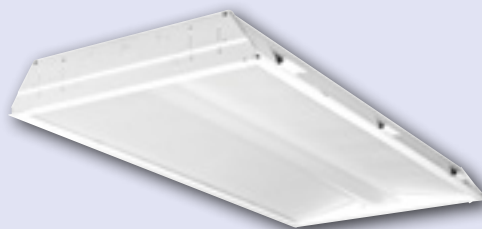
PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	HEIGHT (GRID)
2' x 2'	1	1	14, 17, 24, 40TT, 50TT	4 3/4"
	2	2	14, 17, 24, 40TT, 50TT	4 3/4"
	3	3	14, 17, 24	4 3/4"
2' x 4'	1	1	28, 32, 54	4 3/4"
	2	2	28, 32, 54	4 3/4"
	2	4	40TT, 50TT	4 3/4"
	3	3	28, 32, 54	4 3/4"
	3	6	40TT, 50TT	4 3/4"

Serrano® Recessed Architectural Luminaire

FEATURES

- Architecturally enhanced triple lens design
- Full distribution provides controlled high angle light for visual comfort and more inviting spaces
- Advanced optics produce high efficiencies
- Hinged optical system allows easy access to lamps and electrical from below the ceiling
- Lenses interlock for structural integrity
- Two optional lens aesthetics
- Exclusive optional T8 EnergyMax® tuned 1.04 ballast factor ballast
- Step and full dimming options for both T5 and T8 expand energy savings opportunities
- Most configurations produce low W/ft² to meet the most restrictive lighting power density codes
- Available with exclusive wiHUBB technology preinstalled



RECESSED ARCHITECTURAL

ORDERING INFORMATION

SER [] - [] [] - [] [] - [] [] - [] [] - [] [] - [] []

MODEL	NO. OF LAMPS	CEILING TYPE	REFLECTOR	AIR FUNCTION	VOLTAGE	OPTIONS
SER Serrano® Recessed Architectural Luminaire	1 One 2 Two 3 Three ⁵	G Grid SM Surface Mount For hard ceilings use flange kit.	P Performance (N/A 1 x 4) F Full	Blank Static	U 120V-277V 347 347V ²	C388 3-Wire Flex C488 4-Wire Flex C588 5-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant WIH wiHUBB Enabled ⁴ TB4 Four Bulk T-Bar Clips

SIZE	LAMP TYPE	SHIELDING
14 1' x 4'	14 2', T5: 14 Watt	C Contour
22 2' x 2'	17 2', T8: 17 Watt	R Rail
24 2' x 4'	24 2', T5HO: 24 Watt	
	40TT Twin Tube Compact, 2G11 Base: 40 Watt	
	28 4', T5: 28 Watt	
	32 4', T8: 32, 30, 28, or 25 Watt	
	54 4', T5HO: 54 or 51 Watt	

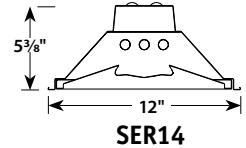
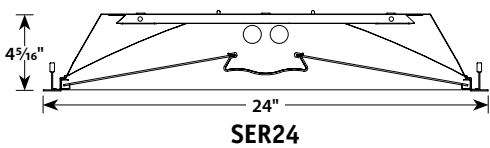
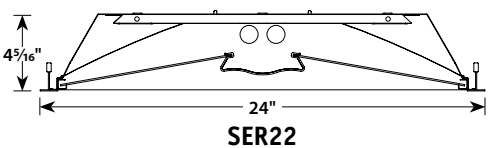
BALLAST	
E	Electronic T8, 0.88 Ballast Factor, Instant Start
ED	Electronic T8, T5, T5HO Dimming, Programmed Start ^{1,2}
ESD	Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start ¹
ELW	Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start
EHL	Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start
E104	Electronic T8, 1.04 Ballast Factor, Instant Start (N/A 1-Lamp)
ESD104	Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ¹
EP104	Electronic T8, 1.04 Ballast Factor, Programmed Start
EP	Electronic T5, T5HO, 1.0 Ballast Factor or T8, 0.88 Ballast Factor, Programmed Start
EP95	Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp)
ESD95	Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp)
EP115	Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp)
ESD115	Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO)
ESD80	Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp, 54W only)
ETT	Electronic Twin Tube, Instant Start
EPTT	Electronic Twin Tube, Programmed Start

LAMPS	
F0830	30K 82CRI T8 Lamps Installed
F0835	35K 82CRI T8 Lamps Installed
F0841	41K 82CRI T8 Lamps Installed
F028830	30K 82CRI 28W T8 Lamps Installed ³
F028835	35K 82CRI 28W T8 Lamps Installed ³
F028841	41K 82CRI 28W T8 Lamps Installed ³
F5830	30K 85CRI T5 or T5HO Lamps Installed
F5835	35K 85CRI T5 or T5HO Lamps Installed
F5841	41K 85CRI T5 or T5HO Lamps Installed

ACCESSORIES (ORDER SEPARATELY)	
FK14	1' x 4' Single Flange Kit
FK22	2' x 2' Single Flange Kit
FK24	2' x 4' Single Flange Kit
FKCR	Flange Kit Row Adaptor

Damp Label - standard
¹ Not compatible with T8 25, 28, or 30 watt energy savings lamps.
² Where available.
³ Not recommended for use with step or full dimming.
⁴ Not available with surface mount.
⁵ Not available with 1' x 4' T5HO.

PRODUCT AVAILABILITY		
SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE
1' x 4'	1	28, 32, 54
	2	28, 32, 54
	3	28, 32
2' x 2'	1	40TT
	2	14, 17, 24, 40TT
	3	14, 17, 24
2' x 4'	1	28, 32, 54
	2	28, 32, 54
	3	28, 32, 54





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FEATURES

- Both T5 and T8 optical systems available
- Full distribution provides controlled high angle light for visual comfort
- Advanced optical design produces high efficiencies
- Step dimming options available for both T5 and T8 expand energy savings opportunities
- Low W/ft² ratio meets the most restrictive lighting power density codes
- Typically qualifies for EPartax tax deductions
- Exclusive T8 EnergyMax[®] tuned 1.04 ballast factor ballast
- Unique frameless optics system allows easy access to lamps and electrical from below the ceiling
- Lens styles provide aesthetic alternatives
- Low profile housing fits in tight plenum spaces
- Patent pending

ORDERING INFORMATION

EPC								
MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS			
EPC e•poc [®] Full Distribution Luminaire	1 One 2 Two	G Grid SM Surface Mount For hard ceilings use flange kit.	DL Delta Profile SH Shield Profile	U 120V-277V 347 347V ²	C388 3-Wire Flex	C488 4-Wire Flex	C588 5-Wire Flex	EL Emergency Battery Pack
					GLR Fast Blow Fuse	GMF Slow Blow Fuse	NYC NYC Compliant	NYCU NYC Compliant, Union Label

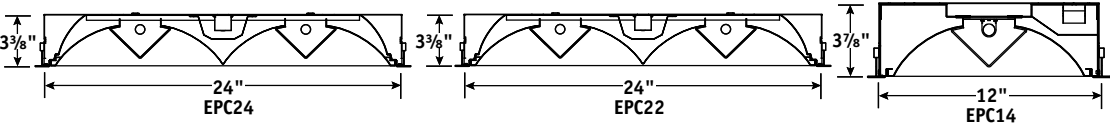
SIZE	LAMP TYPE	BALLAST
14 1' × 4'	14 2', T5: 14 Watt	E Electronic T8, 0.88 Ballast Factor, Instant Start
22 2' × 2'	17 2', T8: 17 Watt	ED Electronic T8, T5, T5HO Dimming, Programmed Start ¹
24 2' × 4'	24 2', T5HO: 24 Watt	ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start ¹
	28 4', T5: 28 Watt	ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start
	32 4', T8: 32, 30, 28 or 25 Watt	EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start
	40TT Twin Tube Compact, 2G11 Base: 40 Watt	E104 <small>NEMA E104</small> Electronic T8, 1.04 Ballast Factor, Instant Start
	54 4', T5HO: 54 or 51 Watt	ESD104 <small>NEMA ESD104</small> Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ¹
		EP Electronic T5, T5HO, 1.0 Ballast Factor or T8, 0.88 Ballast Factor, Programmed Start
		EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp)
		EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp)
		ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp)
		ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp)
		ESD80 Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start
		ETT Electronic Twin Tube, Instant Start (Specify voltage)
		EPTT Electronic Twin Tube, Programmed Start

LAMPS INSTALLED	
F0730	30K 70CRI T8 Lamps Installed
F0735	35K 70CRI T8 Lamps Installed
F0741	41K 70CRI T8 Lamps Installed
F0830	30K 80CRI T8 Lamps Installed
F0835	35K 80CRI T8 Lamps Installed
F0841	41K 80CRI T8 Lamps Installed
PLUS30	30K 80CRI 28W T8 Lamps Installed ³
PLUS35	35K 80CRI 28W T8 Lamps Installed ³
PLUS41	41K 80CRI 28W T8 Lamps Installed ³
FOH830	30K High Lumen T8 Lamps Installed
FOH835	35K High Lumen T8 Lamps Installed
FOH841	41K High Lumen T8 Lamps Installed
F5830	30K 80CRI T5 or T5HO Lamps Installed
F5835	35K 80CRI T5 or T5HO Lamps Installed
F5841	41K 80CRI T5 or T5HO Lamps Installed
F5H830	30K High Lumen T5 Lamps Installed
F5H835	35K High Lumen T5 Lamps Installed
F5H841	41K High Lumen T5 Lamps Installed
FTT830	30K Twin Tube Lamps Installed
FTT835	35K Twin Tube Lamps Installed
FTT841	41K Twin Tube Lamps Installed

ACCESSORIES (ORDER SEPARATELY)

FK14	1' × 4' Flange Kit
FK22	2' × 2' Flange Kit
FK24	2' × 4' Flange Kit
FKCR	Flange Kit Row Adaptor

Damp Label - standard
¹ Not compatible with T8 25, 28, or 30 watt energy savings lamps.
² Where available.
³ Not recommended for use with step or full dimming.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE
1' × 4'	1	28, 32, 54
1' × 4'	2	28, 54
2' × 2'	2	14, 17, 24, 40TT
2' × 4'	2	28, 32, 54

Transition® High Efficiency Architectural Lensed

FEATURES

- Precision optical design produces high efficiency in a high visual comfort, architecturally styled lensed fixture
- Balanced reflector and lens curves provide architectural interest with low brightness and low contrast
- Optimized coating process and unique paint formulation provide exceptional reflectivity in a matte finish for a soft visual image
- Completely recessed, provides a clean ceiling with uniform illumination at mounting heights as low as 8 feet
- Available for use with T8, T5, or T5HO linear fluorescent and twin tube lamps
- Optional acrylic dust guard pivots to seal lamp compartment against contaminants especially for schools, medical facilities and public spaces



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RECESSED ARCHITECTURAL

ORDERING INFORMATION

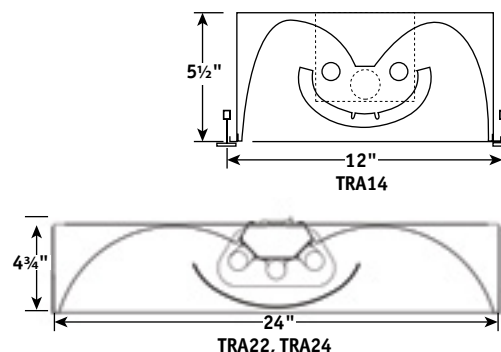
TRA		CLO			
MODEL	NO. OF LAMPS IN CROSS SECTION	CEILING TYPE	BALLAST	VOLTAGE	OPTIONS
TRA Transition® High Efficiency Architectural Lensed	1 One 2 Two 3 Three	G Grid Lay-in SM Surface Mount	E Electronic T8, Instant Start ED Electronic Dimming T8 and T5 EP Electronic T5, T5HO, or T8, Programmed Start ETT Electronic Twin Tube, Instant Start EPTT Electronic Twin Tube, Programmed Start 3E 3-Lamp Electronic T8, Instant Start 3EP 3-Lamp Electronic T8, Programmed Start ELW 2-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start 3ELW 3-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start E104 Electronic T8, 1.04 Ballast Factor, Instant Start ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ¹	U 120V-277V 347 347V	EL Emergency Battery Pack, T8 EL5 Emergency Battery Pack, T5 F0730 30K 75CRI T8 Lamps Installed F0735 35K 75CRI T8 Lamps Installed F0741 41K 75CRI T8 Lamps Installed F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F5830 30K 85CRI T5 or T5HO Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed F5841 41K 85CRI T5 or T5HO Lamps Installed PLUS30 30K 82CRI 28W T8 Lamps Installed ² PLUS35 35K 82CRI 28W T8 Lamps Installed ² PLUS41 41K 82CRI 28W T8 Lamps Installed ² FTT830 30K 82CRI 40W TT Lamps Installed FTT835 35K 82CRI 40W TT Lamps Installed FTT841 41K 82CRI 40W TT Lamps Installed C388 3-Wire Flex C488 4-Wire Flex DG Dust Guard NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE	LAMP TYPE	SHIELDING			
14 1' x 4'	14 2' T5; 14 Watt	CLO Clear Linear Prism Acrylic with Overlay			
22 2' x 2'	17 2', T8: 17 Watt				
24 2' x 4'	24 2', T5HO: 24 Watt				
	40TT 2', Twin Tube Compact, 2G11 Base: 40 Watt				
	28 4', T5; 28 Watt				
	32 4', T8: 32, 30, 28 or 25 Watt				
	54 4', T5HO, 54 Watt				
ACCESSORIES (ORDER SEPARATELY)					
FK14 1' x 4' Flange Kit					
FK22 2' x 2' Flange Kit					
FK24 2' x 4' Flange Kit					

¹Not compatible with T8 25, 28, or 30 watt energy savings lamps.

²Not recommended for use with step or full dimming.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	HEIGHT
1' x 4'	1	1	28, 32, 54	5¾"
		2	40TT	5¾"
	2	2	28, 32, 54	5¾"
		3	28, 32, 54	5¾"
2' x 2'	2	2	14, 17, 24, 40TT	4¾"
	3	3	14, 17, 24	4¾"
2' x 4'	2	2	28, 32, 54	4¾"
		4	40TT	4¾"
	3	3	28, 32, 54	4¾"
		6	40TT	4¾"



EMSE

EnergyMax® Stratus® Energy Saving Architectural Recessed Indirect Luminaire

RECESSED ARCHITECTURAL



createchange

FEATURES

- Tuned system delivers more lumens than conventional 2-lamp recessed indirect fixtures
- Uses tuned 1.04 ballast factor NEMA Premium fixed and step dim ballasts
- Precision optical system produces an efficient luminaire without sacrificing high visual comfort
- Plastic end caps support the light basket and act as a light seal
- Completely recessed, provides a clean ceiling while providing soft, uniform indirect illumination in rooms with ceilings as low as 8 feet
- Light basket and reflector are powder coated white and painted after fabrication
- Ease of installation and maintenance
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

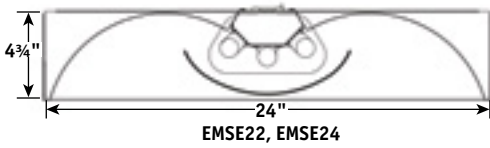
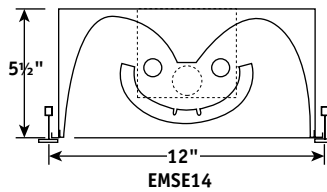
EMSE	2		MPO	U
MODEL EMSE EnergyMax® Stratus® E-Series ¹	NO. OF LAMPS 2 Two	CEILING TYPE G Grid SM Surface Mount For hard ceilings use flange kit.	SHIELDING MPO Metal Perf w/Overlay	VOLTAGE U 120V-277V

SIZE 22 2' x 2' 24 2' x 4'	LAMP TYPE 17 2', T8: 17 Watt 32 4', T8: 32, 30, 28 or 25 Watt	BALLAST E104 Electronic T8, 1.04 Ballast Factor, Instant Start ¹ (N/A 1-Lamp) ² ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ²	OPTIONS F0730 30K 75CRI T8 Lamps Installed F0735 35K 75CRI T8 Lamps Installed F0741 41K 75CRI T8 Lamps Installed F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed PLUS30 30K 82CRI 28W T8 Lamps Installed ³ PLUS35 35K 82CRI 28W T8 Lamps Installed ³ PLUS41 41K 82CRI 28W T8 Lamps Installed ³ EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label C388 3-Wire Flex C488 4-Wire Flex
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ACCESSORIES (ORDER SEPARATELY)

FK22	2' x 2' Flange Kit
FK24	2' x 4' Flange Kit
FKCR	Flange Kit Row Adaptor

¹For EnergyMax® Stratus® Plus, order "-PLUSXX" lamps under "Options."
²Not compatible with T8 25, 28, or 30 watt energy savings lamps.
³Not recommended for use with step or full dimming.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE
2' x 2'	2	2	17
2' x 4'	2	2	32

Stratus® E-Series Recessed Indirect

FEATURES

- Precision optical design produces high efficiency in a high visual comfort architecturally direct/indirect distribution
- Custom perforated metal basket is backed by a high transmission lamp obscuring overlay
- Optimized coating process and unique paint formulation provide exceptional reflectivity in a matte finish for a soft visual image and balanced basket and reflector illumination
- Completely recessed, provides a clean ceiling with uniform illumination at mounting heights as low as 8 feet
- Available for use with T8, T5, or T5HO linear fluorescent lamps and twin tube
- Optional acrylic dust guard pivots to seal lamp compartment against contaminants especially for schools, medical facilities and public spaces
- Companion center basket (STE), side basket (STS) and pendant (STP) models available



RECESSED ARCHITECTURAL

ORDERING INFORMATION

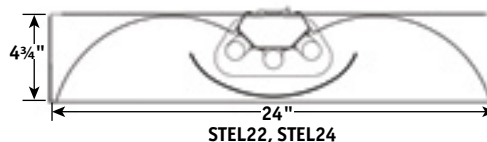
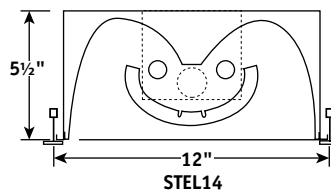
STE	-		G	-	MPO	-		-	
MODEL	NO. OF LAMPS IN CROSS SECTION		CEILING TYPE		BALLAST			OPTIONS	
STE Stratus® E-Series Recessed Indirect	1 One 2 Two 3 Three		G Grid Lay-in SM Surface Mount		E Electronic T8, Instant Start ED Electronic Dimming T8 and T5 EP Electronic T5, T5HO, or T8, Programmed Start ETT Electronic Twin Tube, Instant Start EPTT Electronic Twin Tube, Programmed Start 3E 3-Lamp Electronic T8, Instant Start 3EP 3-Lamp Electronic T8, Programmed Start ELW 2-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start 3ELW 3-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start		U 120V-277V 347 347V	EL Emergency Battery Pack, T8 EL5 Emergency Battery Pack, T5 F0730 30K 75CRI T8 Lamps Installed F0735 35K 75CRI T8 Lamps Installed F0741 41K 75CRI T8 Lamps Installed F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F5830 30K 85CRI T5 or T5HO Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed F5841 41K 85CRI T5 or T5HO Lamps Installed FTT830 30K 82CRI 40W TT Lamps Installed FTT835 35K 82CRI 40W TT Lamps Installed FTT841 41K 82CRI 40W TT Lamps Installed C388 3-Wire Flex C488 4-Wire Flex DG Dust Guard NYC NYC Compliant NYCU NYC Compliant, Union Label	
SIZE	LAMP TYPE		SHIELDING						
14 1' x 4'	14 2' T5; 14 Watt		MPO Metal Perf w/Overlay						
22 2' x 2'	17 2', T8: 17 Watt								
24 2' x 4'	24 2', T5HO: 24 Watt (2-Lamp only) 40TT 2', Twin Tube Compact, 2G11 Base: 40 Watt 28 4', T5; 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO, 54 Watt								

ACCESSORIES (ORDER SEPARATELY)

- FK14** 1' x 4' Flange Kit
- FK22** 2' x 2' Flange Kit
- FK24** 2' x 4' Flange Kit

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	HEIGHT
1' x 4'	1	1	28, 32, 54	5 3/4"
		1	40TT	5 3/4"
	2	2	28, 32, 54	5 3/4"
		3	28, 32, 54	5 3/4"
2' x 2'	2	14, 17, 24, 40TT	4 3/4"	
	3	14, 17, 24, 40TT	4 3/4"	
2' x 4'	2	2	28, 32, 54	4 3/4"
		4	40TT	4 3/4"
	3	3	28, 32, 54	4 3/4"
		6	40TT	4 3/4"



STEL

Stratus® E-Series Center Louver Recessed Indirect

RECESSED ARCHITECTURAL



FEATURES

- Precision optical design produces high efficiency in a high visual comfort architecturally direct/indirect distribution
- Custom perforated metal basket is backed by a high transmission lamp obscuring overlay and features choice of steel cross baffle or high efficiency parabolic louvers
- Optimized coating process and unique paint formulation provide exceptional reflectivity in a matte finish for a soft visual image and balanced basket and reflector illumination
- Completely recessed, provides a clean ceiling with uniform illumination at mounting heights as low as 8 feet
- Available for use with T8, T5, or T5HO linear fluorescent lamps and twin tube
- Optional acrylic debris shield pivots to seal lamp compartment against contaminants especially for schools, medical facilities and public spaces
- Companion center basket (STE), side basket (STS) and pendant (STP) models available

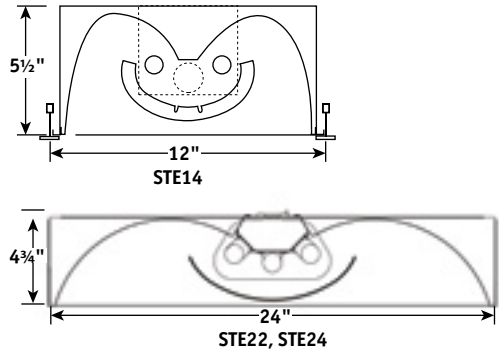
ORDERING INFORMATION

STEL	-		-		-	MPO	-		-	
MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE						
STEL Stratus® E-Series Center Louver Recessed Indirect	1 One 2 Two 3 Three See Product Availability table below.	G Grid Lay-in SM Surface Mount	MPO Metal Perf w/Overlay	U 120V-277V 347 347V						

SIZE	LAMP TYPE	LOUVER TYPE	BALLAST	OPTIONS
14 1' x 4'	14 2', T5: 14 Watt	High Efficiency (H)*	E Electronic T8, Instant Start	EL Emergency Battery Pack
22 2' x 2'	17 2', T8: 17 Watt	HLS Low Iridescent Specular Parabolic	ED Electronic Dimming T8 and T5	EL5 Emergency Battery Pack, T5
24 2' x 4'	40TT 2', Twin Tube Compact, 2G11 Base: 40 Watt	HMA Matte Anodized Low Iridescent Semi-Specular	EP Electronic T5, T5HO, or T8, Programmed Start	GLR Fast Blow Fuse
	24 2', T5HO: 24 Watt	HL50 Low Iridescent Specular Parabolic with Louver Overlay	ETT Electronic Twin Tube, Instant Start	GMF Slow Blow Fuse
	28 4', T5: 28 Watt	HMAO Matte Anodized Lower Iridescent Semi-Specular with Louver Overlay	EPTT Electronic Twin Tube, Programmed Start	DG Dust Guard
	32 4', T8: 32, 30, 28 or 25 Watt	White Steel Cross Baffle	3E 3-Lamp Electronic T8, Instant Start	NYC NYC Compliant
	54 4', T5HO: 54 or 51 Watt	WCB White Cross Baffle	3EP 3-Lamp Electronic T8, Programmed Start	NYCU NYC Compliant, Union Label
		WPB White Perforated Cross Baffle	ELW 2-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start	
		WCBO White Cross Baffle with Baffle Overlay	3ELW 3-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start	
		WPBO White Perforated Cross Baffle with Baffle Overlay		

ACCESSORIES (ORDER SEPARATELY)
FK14 1' x 4' Flange Kit
FK22 2' x 2' Flange Kit
FK24 2' x 4' Flange Kit

*N/A with 3-40TT Lamps



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	HEIGHT
1' x 4'	1	1	28, 32, 54	5 3/4"
	1	2	40TT	5 3/4"
	2	2	28, 32, 54	5 3/4"
2' x 2'	2	2	14, 17, 24, 40TT	4 3/4"
	3	3	14, 17, 24, 40TT*	4 3/4"
2' x 4'	2	2	28, 32, 54	4 3/4"
	2	4	40TT	4 3/4"
	3	3	28, 32, 54	4 3/4"

*3-lamp 40TT available in white steel cross baffle only.

Stratus® Recessed Indirect Side Basket

FEATURES

- Softly glowing side baskets create an elegant aesthetic statement
- Available for T8, Twin Tube, Linear T5, or T5HO lamps
- Baskets and reflector are powder coated after fabrication
- 1' x 4', 2' x 2', and 2' x 4'
- Surface mount available
- Simple to install, easy to maintain
- UL listed 1598, cUL or CSA. Damp Location standard



RECESSED ARCHITECTURAL

ORDERING INFORMATION

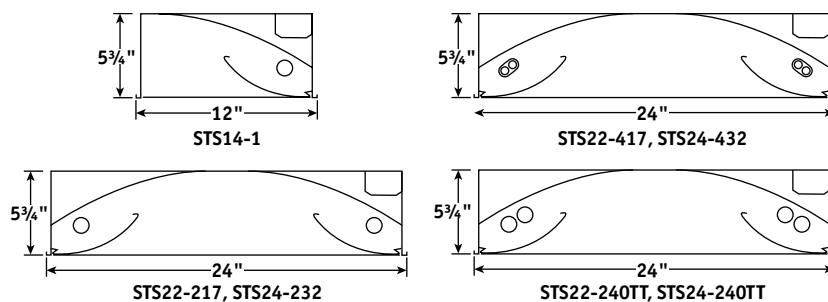
STS					MPO				
MODEL STS Stratus® Recessed Indirect Side Basket	NO. OF LAMPS IN CROSS SECTION 1 One 2 Two 4 Four See Product Availability table below.	CEILING TYPE G Grid Lay-in SG Slot Grid SM Surface Mount	AIR FUNCTION Blank Static A Air Handling	VOLTAGE U 120V-277V 347 347V	SIZE 14 1' x 4' 22 2' x 2' 24 2' x 4'	LAMP TYPE 14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 or 51 Watt	SHIELDING MPO Metal Perf w/Overlay	BALLAST E Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start ED Electronic Dimming T8 and T5 EP Electronic T5, T5HO, or T8, Programmed Start ETT Electronic Twin Tube, Instant Start	OPTIONS EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)

- FK14** 1' x 4' Flange Kit
- FK22** 2' x 2' Flange Kit
- FK24** 2' x 4' Flange Kit
- FKCR** Flange Kit Row Adaptor

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	HEIGHT
1' x 4'	1	1	28, 32, 54	5 3/4"
	1	2	40TT	5 3/4"
	2	2	28, 32, 54	5 3/4"
2' x 2'	2	2	14, 17, 24	5 3/4"
	2	2	40TT	5 3/4"
	4	4	14, 17, 24	5 3/4"
2' x 4'	2	2	28, 32, 54	5 3/4"
	2	4	40TT	5 3/4"
	4	4	28, 32, 54	5 3/4"



STSL

Stratus® Side Basket with Louver

RECESSED ARCHITECTURAL



FEATURES

- High performance louver, accentuated by softly glowing perforated side baskets
- True parabolic louver directs light with pinpoint precision and reduces glare
- Direct component dramatically increases efficiency when compared to other side basket recessed indirects
- Contractor friendly; easy to install and maintain
- Light reflector and baskets are powder coated after fabrication
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

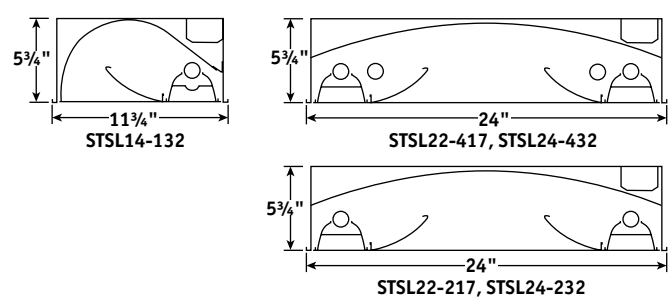
STSL - [] - [] - [] - [] - MPO - [] - [] - [] - []

MODEL	NO. OF LAMPS IN CROSS SECTION	CEILING TYPE	SHIELDING	AIR FUNCTION	VOLTAGE
STSL Stratus® Side Basket with Louver	1 One 2 Two 4 Four See Product Availability table below.	G Grid Lay-in SG Slot Grid SM Surface Mount	MPO Metal Perf w/Overlay	Blank Static A Air Handling	U 120V-277V 347 347V

SIZE	LAMP TYPE	LOUVER FINISH	BALLAST	OPTIONS
14 1' x 4'	14 2', T5: 14 Watt	GW Gloss White Enamel	E Electronic T8, Instant Start	EL Emergency Battery Pack
22 2' x 2'	17 2', T8: 17 Watt	LS Low Iridescent Specular Parabolic Louver	ED Electronic Dimming T8 and T5	GLR Fast Blow Fuse
24 2' x 4'	24 2', T5HO: 24 Watt	MA Matte Anodized Low Iridescent Semi-Specular Aluminum	EP Electronic T5, T5HO, or T8, Programmed Start	GMF Slow Blow Fuse
	28 4', T5: 28 Watt	M4R MIRO®-4, 95% Reflectance Aluminum	ETT Electronic Twin Tube, Instant Start	NYC NYC Compliant
	32 4', T8: 32, 30, 28 or 25 Watt			NYCU NYC Compliant, Union Label
	40TT Twin Tube Compact, 2G11 Base: 40 Watt			
	54 4', T5HO: 54 or 51 Watt			

ACCESSORIES (ORDER SEPARATELY)

- FK14 1' x 4' Flange Kit
- FK22 2' x 2' Flange Kit
- FK24 2' x 4' Flange Kit
- FKCR Flange Kit Row Adaptor



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	HEIGHT
1' x 4'	1	1	28, 32, 54	5 3/4"
	1	2	40TT	5 3/4"
	2	2	28, 32, 54	5 3/4"
2' x 2'	2	2	14, 17, 24	5 3/4"
	2	2	40TT	5 3/4"
	4	4	14, 17, 24	5 3/4"
2' x 4'	2	2	28, 32, 54	5 3/4"
	2	4	40TT	5 3/4"
	4	4	28, 32, 54	5 3/4"

Stratus® Surface or Pendant Mounted

FEATURES

- Contemporary aesthetics create visual interest
- Low profile nominal 1' × 4'
- Choice of perforated baskets or baffles inset in perforated baskets provide radiant illumination in a choice of aesthetic options
- Indirect components reflect light for a soft and even illumination on vertical and horizontal surfaces
- Direct lighting component enhances facial delineation
- Surface mounting standard. Cable mounting available
- 4' and 8' lengths facilitate single or in-row mounting
- Full product family includes Stratus™ fully recessed units for applications where a complementary appearance is desired



ORDERING INFORMATION

STP	2						
MODEL STP Stratus® Surface or Pendant Mounted	NO. OF LAMPS IN CROSS SECTION 2 Two See Product Availability table below.	SHIELDING MPO Metal Perf w/Overlay MPOWCB White Cross Baffle inset in perforated metal MPOWPB White Perforated Cross Baffle inset in perforated metal	VOLTAGE U 120V-277V 347 347V	OPTIONS EL Emergency Battery Pack (Small case size) GLR Fast Blow Fuse GMF Slow Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label	SIZE 14 1' × 4' 18 1' × 8'	LAMP TYPE 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 or 51 Watt	BALLAST NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T8, Programmed Start

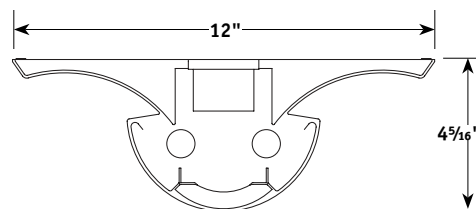
ACCESSORIES (ORDER SEPARATELY)

- CM24** 24" Adjustable Cable Mounting Kit
- CM48** 48" Adjustable Cable Mounting Kit

Cable mounting kits are ordered and shipped separately from fixture. Other lengths are available on request.

PRODUCT AVAILABILITY

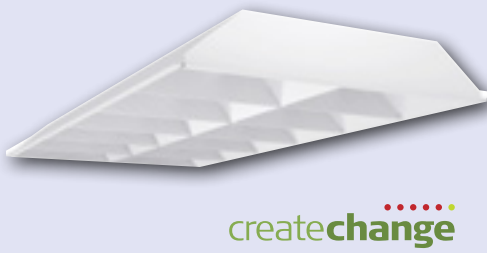
SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
1' × 4'	2	2	28, 32, 54	12"	48 ³ / ₁₆ "	4 ⁵ / ₁₆ "
1' × 8'	2	4	28, 32, 54	12"	96 ³ / ₁₆ "	4 ⁵ / ₁₆ "



STP14-2

EnergyMax® Intersect™ Full Distribution Luminaire

RECESSED ARCHITECTURAL



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FEATURES

- Full distribution optics from a louvered fixture
- Euro style ribbed louver with architectural styling
- Typically qualifies for EPAct tax deduction
- Integral hinges and latches on louver provide a clean finish
- Mechanical light seal
- Rolled fixture edges for safe handling during fixture installation
- Corner hinging for easy insertion and removal of louver from either side
- Housing ends secured by unique corner interlock and screws
- UL listed 1598, cUL or CSA. Damp Location standard

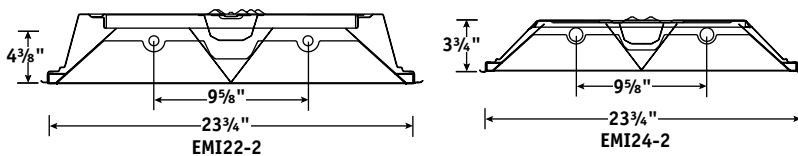
ORDERING INFORMATION

EMI		2		G			
MODEL	SIZE	NO. OF LAMPS		CEILING TYPE		VOLTAGE	
EMI EnergyMax® Intersect	22 2' x 2' 24 2' x 4'	2 Two		G Grid For hard ceilings use flange kit.		U 120V-277V 347 347V	

LAMP TYPE	BALLAST	OPTIONS
14 2', T5: 14 Watt	E Electronic T8, 0.88 Ballast Factor, Instant Start	F0730 30K 75CRI T8 Lamps Installed
17 2', T8: 17 Watt	ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start	F0735 35K 75CRI T8 Lamps Installed
24 2', T5HO: 24 Watt	ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start	F0741 41K 75CRI T8 Lamps Installed
28 4', T5: 28 Watt	EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start	F0830 30K 82CRI T8 Lamps Installed
31U1 U-Bent, 1 5/8" Leg Spacing T8: 31 Watt	NEMA E104 Electronic T8, 1.04 Ballast Factor, Instant Start ¹	F0835 35K 82CRI T8 Lamps Installed
32 4', T8: 32 Watt	NEMA E104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ¹	F0841 41K 82CRI T8 Lamps Installed
40TT Twin Tube Compact, 2G11 Base: 40 Watt	EP Electronic T5, T5HO, or T8, Programmed Start	PLUS830 30K 82CRI 28W T8 Lamps Installed ⁴
54 4', T5HO: 54 Watt	EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (28 Watt Only)	PLUS835 35K 82CRI 28W T8 Lamps Installed ⁴
	ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (28 Watt Only)	PLUS841 41K 82CRI 28W T8 Lamps Installed ⁴
	EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (28 Watt Only)	FOH830 30K High Lumen T8 Lamps Installed
	ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (28 Watt Only)	FOH835 35K High Lumen T8 Lamps Installed
	ETT Electronic Twin Tube, Instant Start (Specify voltage)	FOH841 41K High Lumen T8 Lamps Installed
	EPTT Electronic Twin Tube, Programmed Start	F5830 30K 85CRI T5 or T5HO Lamps Installed
		F5835 35K 85CRI T5 or T5HO Lamps Installed
		F5841 41K 85CRI T5 or T5HO Lamps Installed
		F5H830 30K High Lumen T5 Lamps Installed
		F5H835 35K High Lumen T5 Lamps Installed
		F5H841 41K High Lumen T5 Lamps Installed
		C388 3-Wire Flex
		C488 4-Wire Flex
		EL Emergency Battery Pack ³
		GLR Fast Blow Fuse
		GMF Slow Blow Fuse
		NYC NYC Compliant
		NYCU NYC Compliant, Union Label

- ACCESSORIES (ORDER SEPARATELY)**
- FK22** 2' x 2' Flange Kit
 - FK24** 2' x 4' Flange Kit
 - FKCR** Flange Kit Row Adaptor

¹For EnergyMax® Intersect™ Plus, order "-PLUSXX" lamps under "Options."
²Where available.
³DL not available for all EL ballast combinations, contact factory.
⁴Not recommended for use with step or full dimming.



PRODUCT AVAILABILITY			
SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
2' x 2'	2	14, 17, 24, 31U1, 40TT	2 x 3 (6)
2' x 4'	2	28, 32, 54	2 x 6 (12)

Zero Plenum® Troffer High Efficiency Architectural Luminaire

FEATURES

- Soft, uniform light distribution provides excellent vertical illumination free from harsh contrast
- Employs T5 or T5HO technology for high efficiency and high performance
- Housing depth of only 1½" for a luminaire no taller than standard T-Bar rails
- Unique telescoping housing minimizes installation depth and simplifies installation
- Does not intrude into usable plenum space
- Multiple shielding options include linear prismatic lens, injection molded, high impact acrylic baffle, or descending perforated metal diffuser
- Three reflector options provide customized aesthetics
- UL listed 1598, cUL or CSA. Damp Location standard



createchange

RECESSED ARCHITECTURAL

ORDERING INFORMATION

ZPT	2								
MODEL ZPT Zero Plenum® Troffer	NO. OF LAMPS 2 Two	CEILING TYPE G Grid Lay-in SM Surface Mount ²	REFLECTOR O Open (N/A with PRF) R Ribbed Curve S Smooth Curve	VOLTAGE U 120V-277V 347 347V	SIZE 14 1' x 4' 22 2' x 2' 24 2' x 4'	LAMP TYPE 14 2', T5: 14 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 54 4', T5HO: 54 or 51 Watt	SHIELDING FCB Flush Curved Baffle LSR Linear Prismatic Lens with Surface Relief Diffuser PRF Metal Perf w/Overlay SB Solid Basket	BALLAST EP Electronic T5, 1.00 Ballast Factor (28W or 54W) EP95 Electronic T5, 0.95 Ballast Factor (28W only) EP115 Electronic T5, 1.15 Ballast Factor (28W only) ED Electronic T5, 1.00 Ballast Factor, Variable Dimming Ballast (28W or 54W) ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming (28W only) ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming (28W only)	OPTIONS 3-Wire Flex, 90° Connector 4-Wire Flex, 90° Connector (Step Dimming or -EL Option) ¹ Fast Blow Fuse Slow Blow Fuse (4) Bulk T-Bar Clips ¹ Emergency Battery Pack (N/A 2 x 2) NYC Compliant NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)

- FK14** 1' x 4' Flange Kit
- FK22** 2' x 2' Flange Kit
- FK24** 2' x 4' Flange Kit
- FKCR** Flange Kit Row Adaptor

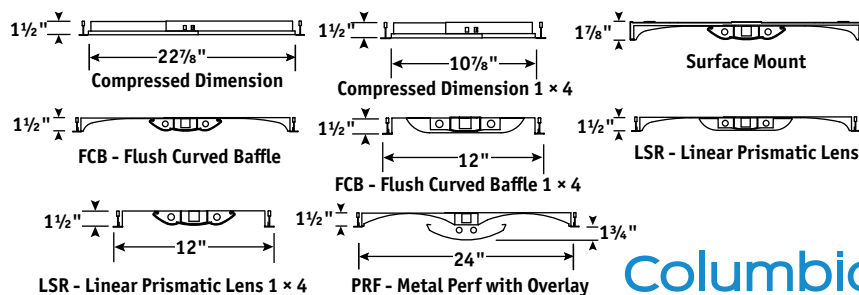
¹Recessed only.

²Zero Plenum may be ordered as a factory-assembled surface mounted unit ordered as grid ("G") ceiling type and surface mounted in the field using the ZPTSMK surface mounting kit.

³Where available.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	COMPRESSED WIDTH	INSTALLED WIDTH	LENGTH	HEIGHT
1' x 4'	2	28, 54	10 7/8"	11 3/4"	47 3/4"	1 1/2"
2' x 2'	2	14, 24	22 7/8"	23 3/4"	23 3/4"	1 1/2"
2' x 4'	2	28, 54	22 7/8"	23 3/4"	47 3/4"	1 1/2"



COV

Covelight

RECESSED ARCHITECTURAL



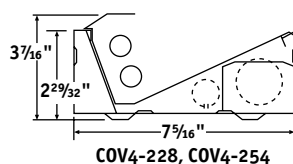
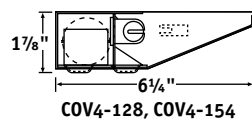
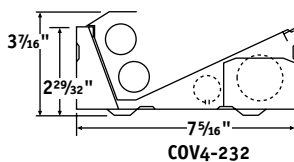
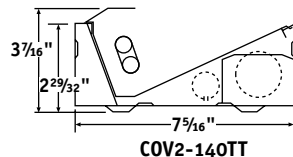
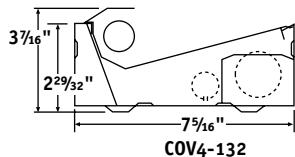
FEATURES

- Unique design provides wide distribution, far superior to standard or staggered strip lights
- Notched reflector eliminates socket shadows
- Maximum efficiency
- Shallow 3⁷/₁₆" (T8) or 1⁷/₈" (T5) housing profile
- T8, T5 or T5HO
- Modular lengths simplify installation
- Quick disconnect plugs make row wiring easy
- Hinged reflector allows quick access to wireway
- Built-in aligner tabs align fixture housings, simplify continuous row installation
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
COV Covelight	2 2' 3 3' 4 4' 6 6' 8 8'	1 One 2 Two (N/A with TT lamps) See Product Availability table below.	14 2', T5: 14 Watt 17 2', T8: 17 Watt 21 3', T5: 21 Watt 24 2', T5HO: 24 Watt 25 3', 25 Watt, T8 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 39 3', T5HO: 39 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 Watt	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start* 4E 4-Lamp Electronic T8, Instant Start** ED Electronic Dimming T8 and T5 EP Electronic T5, T5HO, or T8, Programmed Start ETT Electronic Twin Tube, Instant Start	U 120V-277V 347 347V	EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MS Master/Satellite (2 fixtures, 1 ballast) SMS Satellite/Master/Satellite (3 fixtures, 1 ballast) SMSS Satellite/Master Satellite/Satellite (4 fixtures, 1 ballast) NYC NYC Compliant NYCU NYC Compliant, Union Label

*For use with SMS option on 1-Lamp units
**For use with SMSS option on 1-Lamp units or MS option on 2-Lamp units.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
2'	1	1	17, 40TT	7 ⁵ / ₁₆ "	24"	3 ⁷ / ₁₆ "
		1	14, 24	6 ¹ / ₄ "	22 ¹¹ / ₁₆ "	1 ⁷ / ₈ "
		2	14, 17, 24	7 ⁵ / ₁₆ "	24"	3 ⁷ / ₁₆ "
3'	1	1	25	7 ⁵ / ₁₆ "	36"	3 ⁷ / ₁₆ "
		1	21, 39	6 ¹ / ₄ "	34 ¹ / ₂ "	1 ⁷ / ₈ "
		2	21, 25, 39	7 ⁵ / ₁₆ "	36"	3 ⁷ / ₁₆ "
4'	1	1	32	7 ⁵ / ₁₆ "	48"	3 ⁷ / ₁₆ "
		1	28, 54	6 ¹ / ₄ "	45 ⁹ / ₁₆ "	1 ⁷ / ₈ "
		2	28, 32, 54	7 ⁵ / ₁₆ "	48"	3 ⁷ / ₁₆ "
6'	1	2	25	7 ⁵ / ₁₆ "	72"	3 ⁷ / ₁₆ "
		2	21, 39	6 ¹ / ₄ "	69 ³ / ₄ "	1 ⁷ / ₈ "
		4	21, 25, 30	7 ⁵ / ₁₆ "	72"	3 ⁷ / ₁₆ "
8'	1	2	32	7 ⁵ / ₁₆ "	96"	3 ⁷ / ₁₆ "
		2	28, 54	6 ¹ / ₄ "	92 ⁷ / ₁₆ "	1 ⁷ / ₈ "
		4	28, 32, 54	7 ⁵ / ₁₆ "	96"	3 ⁷ / ₁₆ "

FEATURES

- Unique aesthetic combines dedicated louvers with perforated face
- Excellent glare control for spaces where computers are in use; RP-1 compliant options
- 2½" deep ultra-shallow housing frees up plenum space, fits into tight areas, and is easy to handle and install
- Precise batwing distribution is ideal for 8' × 8' and 8' × 10' spacings
- Wall wash (1WW) option lights walls to eliminate "cave effect"
- Double wall wash (2WW) option for corridors, small offices, or conference rooms
- T5 or T5HO technology offers an exceptional lumen package
- Dedicated louvers create an optical envelope to provide maximum contribution from each lamp
- UL listed 1598, cUL or CSA. Damp Location standard



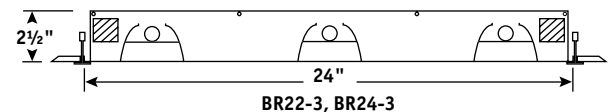
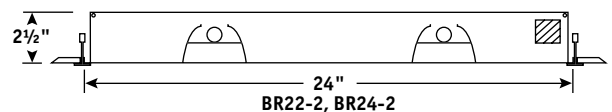
ORDERING INFORMATION

BR						EP		
MODEL BR Brio® T5 Low Glare	NO. OF LAMPS 2 Two 3 Three See Product Availability table below.	CEILING TYPE G Grid SG Slot Grid SM Surface	PERFORATED FACE MPO Metal Perf w/Overlay ST Solid (No Perf)	VOLTAGE U 120V-277V 347 347V	OPTIONS			
SIZE 22 2' × 2' 24 2' × 4'	LAMP TYPE 14 2', T5: 14 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 54 4', T5HO: 54 or 51 Watt	LOUVER FINISH LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum M4R MIRO®-4, 95% Reflectance Aluminum MW Matte White	BALLAST EP Electronic, Programmed Start		ACCESSORIES (ORDER SEPARATELY) F5830 30K 80CRI T5 or T5HO Lamps Installed F5835 35K 80CRI T5 or T5HO Lamps Installed F5841 41K 80CRI T5 or T5HO Lamps Installed 1WW Asymmetric Wall Wash 2WW Double Wall Wash C388 3-Wire Flex C488 4-Wire Flex EL Emergency Battery Pack (Use low profile only) GLR Fast Blow Fuse GMF Slow Blow Fuse PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label			

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	DEDICATED LOUVERS	PERFORATED PANELS	FIXTURE HEIGHT	CEILING TYPE
2' × 2'	2	14, 24	2	3	2½"	G, SG
	3	14, 24	3	2	2½"	G, SG
2' × 4'	2	28, 54	2	3	2½"	G, SG
	3	28, 54	3	2	2½"	G, SG

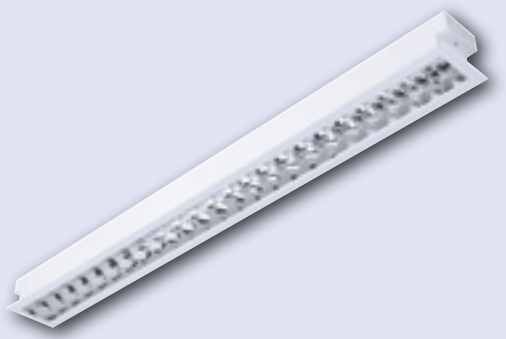
Standard ceiling type shown in bold.



BR STRETTO

Brio® Stretto 4" T5 Low Glare

RECESSED ARCHITECTURAL

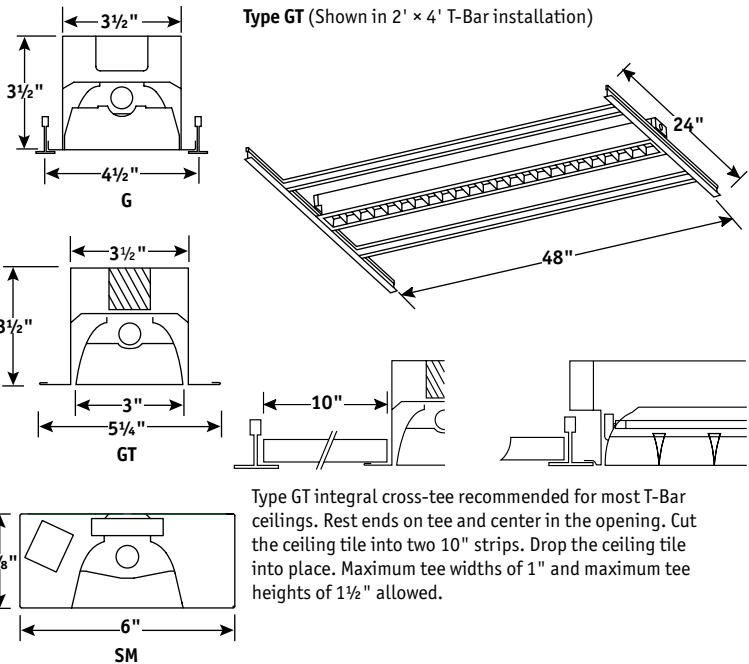


FEATURES

- Narrow aperture dedicated louver for single or row mounting
- 3½" deep low profile housing maximizes available plenum space
- Precise batwing distribution is ideal for 8' × 8' and 8' × 10' spacings
- GT (integral cross-tee) trim supports ceiling tile for easy installation
- Continuous row mounting
- Wall wash (1WW) option lights walls to eliminate "cave effect"
- Double wall wash (2WW) option for corridors, small offices, or conference rooms
- T5 or T5HO technology offers an exceptional lumen package
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

BR	1			EP	
MODEL BR Brio® Stretto 4" T5 Low Glare	NO. OF LAMPS 1 One See Product Availability table below.	CEILING TYPE GT Integral Cross Tee (Grid ends lay into T-Bar, sides act as integral cross-tee to support ceiling tile) SGT Slot Grid Integral Cross Tee	BALLAST NOTE: See Technical Section for other ballast options. EP Electronic, Programmed Start	VOLTAGE U 120V-277V 347 347V	OPTIONS F5830 30K 85CRI T5 or T5HO Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed F5841 41K 85CRI T5 or T5HO Lamps Installed 1WW Asymmetric Wall Wash 2WW Double Wall Wash C388 3-Wire Flex EL Emergency Battery Pack (Low profile) GLR Fast Blow Fuse GMF Slow Blow Fuse PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE 042 4" × 2' (Recessed) 044 4" × 4' (Recessed)	LAMP TYPE 14 2', T5: 14 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 54 4', T5HO: 54 Watt	G Grid (Standard 1" flat lay-in T-Bar) SM Surface/Pendant Mount SG Slot Grid	LOUVER FINISH LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum M4R 95% Reflective Specular Aluminum MW Matte White		
ACCESSORIES (ORDER SEPARATELY)					
FK042 4" × 2' Flange Kit					
FK044 4" × 4' Flange Kit					
FKCR Flange Kit Row Adaptor					



Type GT (Shown in 2' × 4' T-Bar installation)

Type GT integral cross-tee recommended for most T-Bar ceilings. Rest ends on tee and center in the opening. Cut the ceiling tile into two 10" strips. Drop the ceiling tile into place. Maximum tee widths of 1" and maximum tee heights of 1½" allowed.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	DEDICATED LOUVERS	FIXTURE HEIGHT	TRIM OPTIONS (STANDARD BOLD)
4" × 2'	1	14, 24	1	3½"	GT, SGT, G, SM
4" × 4'	1	28, 54	1	3½"	GT, SGT, G, SM

EnergyMax® Energy Saving Parabolic

FEATURES

- Enhanced optics deliver 89% efficiency (2' x 4')
- Nominal 3" deep louver provides excellent glare control for today's architectural interiors with maintenance-free operation
- Optimized for standard T8 lamp technology, tuned ballast reduces power usage to 67 watts (2' x 4')
- EnergyMax® Plus parabolic uses 28W T8 lamps to reduce power usage to 56 watts
- Typically qualifies for EPAct tax deduction (2' x 4')
- Shallow housing allows installation in restricted ceiling plenums
- Full black reveal provides floating door appearance and full air handling capabilities
- Custom MIRO® formulation louver developed by Alanod for Columbia Lighting
- UL listed 1598, cUL or CSA. Damp Location standard



createchange

PARABOLICS

ORDERING INFORMATION

EMX	2	G	M5				
MODEL EMX EnergyMax® Energy Saving Parabolic	NO. OF LAMPS 2 Two	CEILING TYPE G Grid For hard ceilings use flange kit.	CELLS WIDE BY CELLS LONG See Product Availability table below.	VOLTAGE U 120V-277V 347 347V	OPTIONS		
SIZE	LAMP TYPE	LOUVER FINISH	AIR HANDLING	BALLAST			
22 2' x 2'	14 2', T5: 14 Watt	M5 MIRO-5	S Static	E Electronic T8, 0.88 Ballast Factor, Instant Start			PLUS30 30K 82CRI 28W T8 Lamps Installed ¹
24 2' x 4'	17 2', T8: 17 Watt		A Air Handling	ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start			PLUS35 35K 82CRI 28W T8 Lamps Installed ¹
	24 2', T5H0: 24 Watt		AV Air Handling w/Supply Vanes	ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start			PLUS41 41K 82CRI 28W T8 Lamps Installed ¹
	28 4', T5: 28 Watt		C Combination Supply/Extract	EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start			F0830 30K 82CRI T8 Lamps Installed
	32 4', T8: 32, 30, 28 or 25 Watt		CV Combination Supply Vanes/Extract	E104 Electronic T8, 1.04 Ballast Factor, Instant Start			F0835 35K 82CRI T8 Lamps Installed
	32U6 U-Bent, 6" Leg Spacing T8: 32 Watt		CD Combination Supply Extract Dampers	ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start			F0841 41K 82CRI T8 Lamps Installed
	54 4', T5H0: 54 or 51 Watt		CVD Combination Supply Vanes Extract Dampers	EP Electronic T5, T5H0, or T8, Programmed Start			F5835 35K 85CRI T5 Lamps Installed
			H Heat Extract	EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (28 Watt Only)			C388 3-Wire Flex
			HD Heat Extract w/Dampers	EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (28 Watt Only)			C488 4-Wire Flex
				ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (28 Watt Only)			EL Emergency Battery Pack
				ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (28 Watt Only)			GLR Fast Blow Fuse
							GMF Slow Blow Fuse
							TB4 Four Bulk T-Bar Clips
							NYC NYC Compliant
							NYCU NYC Compliant, Union Label

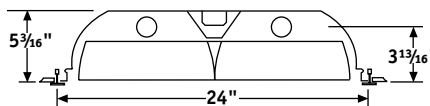
ACCESSORIES (ORDER SEPARATELY)

- FK24 2' x 4' Flange Kit
- FK22 2' x 2' Flange Kit
- FKCR Flange Kit Row Adaptor

¹Not recommended for use with step or full dimming.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
2' x 2'	2	14, 17, 24, 32U6	2 x 3 (6), 3 x 3 (9)
2' x 4'	2	28, 32, 54	2 x 6 (12)



EMX22-2



EMX24-2

P4

Recessed Air Handling Parabolic

PARABOLICS

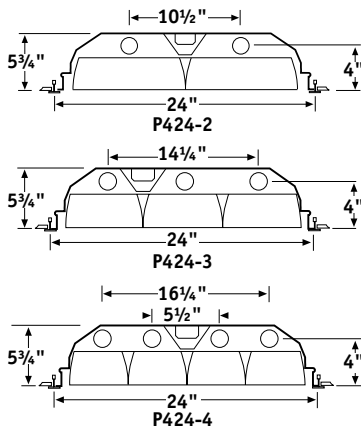


FEATURES

- 3" deep cell parabolic louver for optimum control
- IES standard RP-1 glare control models available
- Wide light distribution provides uniform illumination
- Black reveal with full air handling capabilities
- Anodized low iridescent aluminum louver
- Treated with a five stage phosphate bonding process and finished with a baked white enamel
- Mechanical light trap prevents light leaks
- Surface mount available
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

P4								
MODEL	NO. OF LAMPS	CEILING TYPE	CELLS WIDE BY CELLS LONG	AIR CONTROL	VOLTAGE			
P4 Recessed Air Handling Parabolic	1 One 2 Two 3 Three 4 Four <small>See Product Availability table below.</small>	G Grid F Overlap Flange M Modular Fit-in Trim SM Surface Mount (Static only) SG Slot Grid	See Product Availability table below.	Blank None V Supply Vanes D Extract Dampers VD Vanes & Dampers	U 120V-277V 347 347V			
SIZE	LAMP TYPE	LOUVER FINISH	AIR FUNCTIONS	BALLAST	OPTIONS			
14 1' x 4'	17 2', T8: 17 Watt	GW Gloss White Enamel	S Static	E Electronic T8, Instant Start	F0735 35K 75CRI T8 Lamps Installed			
22 2' x 2'	28 4', T5: 28 Watt	LD Low Iridescent Semi-Specular	A Air Handling	3E 3-Lamp Electronic T8, Instant Start	F0835 35K 80CRI T8 Lamps Installed			
24 2' x 4'	31U1 U-Bent, 1 1/2" Leg Spacing T8: 31 Watt	LS Low Iridescent Specular	C Combination Supply/Extract	4E 4-Lamp Electronic T8, Instant Start	F5835 35K 80CRI T5 Lamps Installed			
	32 4', T8: 32, 30, 28 or 25 Watt	MA Matte Anodized Low Iridescent Semi-Specular Aluminum	H Heat Extract	EP Electronic T5 or T8, Programmed Start	2BC Two Ballast Covers			
	32U6 U-Bent, 6" Leg Spacing T8: 32 Watt			3EP 3-Lamp Electronic T5HO or T8, Programmed Start	C388 3-Wire Flex			
	40TT Twin Tube Compact, 2G11 Base: 40 Watt			4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start	C488 4-Wire Flex			
	54 4', T5HO: 54 or 51 Watt			ETT Electronic Twin Tube, Instant Start (Specify Voltage)	EL Emergency Battery Pack			
					GLR Fast Blow Fuse			
					GMF Slow Blow Fuse			
					M4R MIRO®-4 Specular Reflector			
					MS9 Master/Satellite w/9' Harness			
					PAF Paint After Fabrication			
					SRA Specular Anodized Aluminum Reflector			
					NYC NYC Compliant			
					NYCU NYC Compliant, Union Label			



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
1' x 4'	1	28, 32, 54	1 x 6 (6), 1 x 8 (8), 1 x 9 (9), 2 x 6 (12), 2 x 8 (16)
	2	28, 32, 54	1 x 6 (6), 1 x 8 (8), 1 x 9 (9), 2 x 6 (12), 2 x 8 (16)
2' x 2'	2	17, 31U1, 32U6, 40TT	3 x 3 (9), 4 x 4 (16)
	3	17, 31U1, 40TT	3 x 3 (9), 4 x 4 (16)
2' x 4'	2	28, 32, 54	2 x 6 (12), 2 x 8 (16), 4 x 6 (24), 4 x 8 (32)
	3	28, 32, 54	3 x 6 (18), 3 x 8 (24)
	4	28, 32, 54	2 x 6 (12), 2 x 8 (16), 4 x 6 (24), 4 x 8 (32)

Standard louver configurations shown in bold. For other lamp or louver configurations, contact your local Columbia Lighting representative. Various options may increase fixture height on 2' x 2' units. Contact your Columbia Lighting representative if plenum depth is a concern.

P4 Small Cell

Recessed Air Handling Small Cell Parabolic

FEATURES

- 1½" deep small cell louver reduces glare
- Proper lamp position ensures uniform illumination
- Black reveal with full air handling capabilities
- Anodized low iridescent aluminum louver
- Treated with a five stage phosphate bonding process and finished with a baked white enamel
- Mechanical light trap prevents light leaks
- Surface mount available
- UL listed 1598, cUL or CSA. Damp Location standard



PARABOLICS

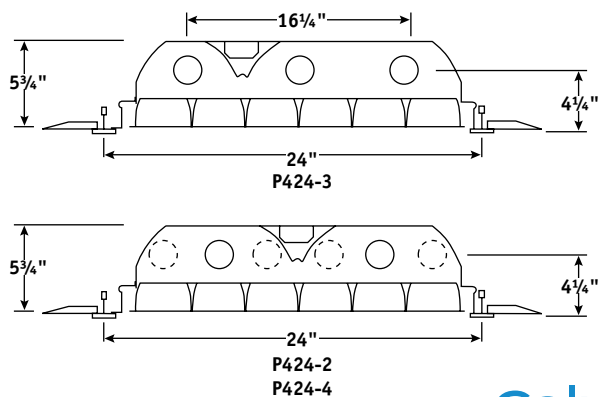
ORDERING INFORMATION

P4									
MODEL	NO. OF LAMPS	CEILING TYPE	CELLS WIDE BY CELLS LONG	AIR CONTROL	VOLTAGE				
P4 Recessed Air Handling Small Cell Parabolic	2 Two 3 Three 4 Four See Product Availability table below.	G Grid F Overlap Flange M Modular Fit-in Trim SG Slot Grid SM Surface Mount (Static only)	See Product Availability table below.	Blank None V Supply Vanes D Extract Dampers VD Vanes & Dampers	U 120V-277V 347 347V				
SIZE	LAMP TYPE	LOUVER FINISH	AIR FUNCTIONS	BALLAST	OPTIONS				
22 2' x 2' 24 2' x 4'	17 2', T8: 17 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1½" Leg Spacing T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 or 51 Watt	LD Low Iridescent Semi-Specular LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum	S Static A Air Handling C Combination Supply/Extract H Heat Extract	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start ETT Electronic Twin Tube, Instant Start (Specify voltage)	F0735 35K 75CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed C388 3-Wire Flex C488 4-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MS9 Master/Satellite w/9' Harness PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label				

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
2' x 2'	2	17, 31U1, 32U6, 40TT	6 x 6 (36), 7 x 7 (49)
	3	17, 31U1, 40TT	6 x 6 (36), 7 x 7 (49)
2' x 4'	2	28, 32, 54	6 x 13 (78), 7 x 15 (105)
	3	28, 32, 54	6 x 13 (78), 7 x 15 (105)
	4	28, 32, 54	6 x 13 (78), 7 x 15 (105)

For other lamp or louver configurations, contact your local Columbia Lighting representative. Various options may increase fixture height on 2' x 2' units. Contact your Columbia Lighting representative if plenum depth is a concern.



Columbia
LIGHTING

P4D

High Performance Parabolic

PARABOLICS



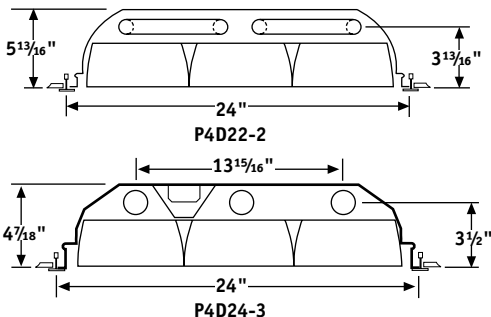
FEATURES

- Nominal 3" deep louver
- Black reveal with full air handling capabilities
- Matte anodized low iridescent, semi-specular (MA) louver finish virtually eliminates visibility of fingerprints and construction dust
- Shallow housing
- Lightweight
- Recessed, surface, or cable mount
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

P4D									
MODEL	NO. OF LAMPS	CEILING TYPE	CELLS WIDE BY CELLS LONG	BALLAST	VOLTAGE	OPTIONS			
P4D High Performance Parabolic	2 Two 3 Three 4 Four (N/A in 2x2) See Product Availability table below.	G Grid SM Surface Mount (static only) CM Cable Mount (static only) ⁴ For hard ceilings, use flange kit. See options in Technical section.	See Product Availability table below.	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5H0 or T8, Programmed Start 4EP 4-Lamp Electronic T5H0 (N/A 347V) or T8, Programmed Start 24E 2 or 4-Lamp Electronic T8, Instant Start (For 3-Lamp Master/Satellite only) ELW 2-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start 3ELW 3-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start 4ELW 4-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start ETT Electronic Twin Tube, Instant Start (Specify voltage)	U 120V-277V 347 347V	F0735 35K 75CRI T8 Lamps Installed F0741 41K 75CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed 2BC Two Ballast Covers C388 3-Wire Flex C488 4-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MS9 Master/Satellite w/9' Harness MS11 Master/Satellite w/ 11' Harness PAF Paint After Fabrication TB4 (4) Bulk T-Bar Clips EOR End of Row (SM/CM only. Provides end wiring access for continuous row mounting) ⁵ INT Intermediate (SM/CM only. Provides ends with wiring access for continuous row mounting) ⁵ NYC NYC Compliant NYCU NYC Compliant, Union Label			
SIZE	LAMP TYPE	LOUVER FINISH	AIR HANDLING						
22 2' x 2' ³ 24 2' x 4'	14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5H0: 24 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1 1/8" Leg Spacing T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5H0: 54 or 51 Watt	LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum (Std.)	S Static ¹ A Air Handling ¹ AV Air Handling with Supply Vanes ¹ C Combination Supply/Extract ² CV Combination Supply Vanes/Extract ² CD Combination Supply Extract Dampers ² CVD Combination Supply Vanes Extract Dampers ² H Heat Extract ² HD Heat Extract with Dampers ²						

¹ All fixtures supplied with integral T-Bar clips.
² 2' x 2' fixtures supplied with integral T-Bar clips, 2' x 4' fixtures supplied with two non-integral T-Bar clips.
³ Various options may increase fixture height on 2' x 2'.
⁴ Order hanger accessories separately.
⁵ Contact factory for continuous row, 3-lamp fixtures.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
2' x 2'	2	14, 17, 24, 31U1, 32U6, 40TT	2 x 3 (6), 2 x 4 (8), 3 x 3 (9) , 4 x 4 (16)
	3	14, 17, 24, 31U1, 40TT	3 x 3 (9) , 4 x 4 (16)
	4	17	3 x 3 (9) , 4 x 4 (16)
2' x 4'	2	28, 32, 54	2 x 6 (12) , 2 x 8 (16), 4 x 6 (24), 4 x 8 (32)
	3	28, 32, 54	3 x 6 (18) , 3 x 8 (24)
	4	28, 32, 54	2 x 6 (12), 2 x 8 (16), 4 x 6 (24), 4 x 8 (32)

Standard louver configurations shown in bold. Ballast quantities or emergency pack options may be restricted in some models.

FEATURES

- 6" aperture suits a variety of applications
- Continuous louver provides a sleek unbroken appearance in continuous row applications
- Available with flush or regressed trim
- One or two-lamp cross sections
- Shielding options include parabolic louver, cross baffle or lens
- UL listed 1598, cUL or CSA. Damp Location standard



ORDERING INFORMATION

NP											
MODEL	NO. OF LAMPS	TRIM TYPE				VOLTAGE	OPTIONS				
NP Narrow Parabolic	1 One 2 Two	FS Flush Steel Trim (G only)	FA Flush Trim (N/A Grid Trim)	RA 1 3/4" Regressed Trim		U 120V-277V 347 347V	EL Emergency Battery Pack	GLR Fast Blow Fuse	GMF Slow Blow Fuse	NYC NYC Compliant	NYCU NYC Compliant, Union Label
SIZE	LAMP TYPE	CEILING TYPE		SHIELDING		BALLAST		ROW CONFIGURATION			
62 6" x 2'	17 2', T8: 17 Watt	G Grid (For 1" inverted T-Bar)	F Overlap Flange Trim (For hard ceilings order accessory yoke hangers)	LD Low Iridescent Semi-Specular Parabolic Louver	LS Specular Parabolic	E Electronic T8, Instant Start	3E 3-Lamp Electronic T8, Instant Start	SGL Single (Cross tee installations only)	EORRH End-of-Row Right Hand* (No cross-tees between housing)	EORLH End-of-Row Left Hand* (No cross-tees between housing)	INT Intermediate* (No cross-tees between housing)
63 6" x 3'	25 3', T8: 25 Watt	GT Integral Cross-tee		WCB White Cross Baffle	A12 Acrylic Pattern 12 Lens	3EP 3-Lamp Electronic T5 or T8, Programmed Start	4EP 4-Lamp Electronic T5H0 or T8, Programmed Start				
64 6" x 4'	28 4', T5: 28 Watt			A19 Acrylic Pattern 19 Lens	OA Opal Acrylic Lens						
66 6" x 6'	32 4', T8: 32, 30, 28 or 35 Watt										
68 6" x 8'	54 4', T5H0: 54 or 51 Watt										

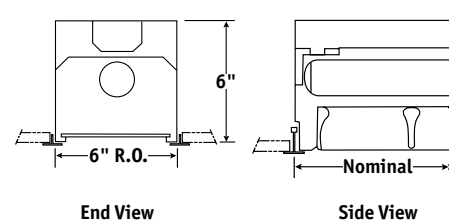
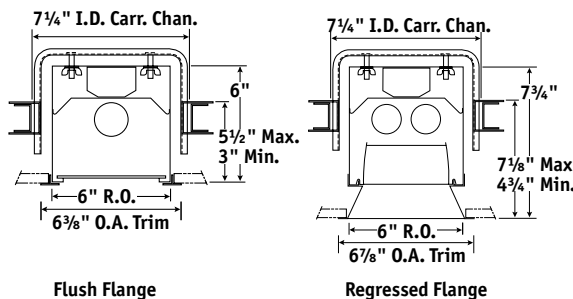
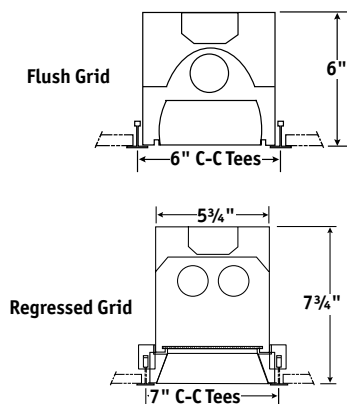
ACCESSORIES (ORDER SEPARATELY)

116281 Yoke Hanger (Pair) One Per ("F") Trim Fixture

Type G Lay-in exposed grid. Fit standards 1" wide, 1 1/2" tall tee.

Type F For hard ceiling applications. Yoke hangers are shipped separately. Carrier channel by others.

Type GT Integral cross-tee. Grid end lay into standard T-Bar. Sides act as integral cross-tee to support tile. Fits standard 1" wide, 1 1/2" tall tee. Cut ceiling tile into two 8/8" strips.



VHC

Low Glare 9" Parabolic

PARABOLICS

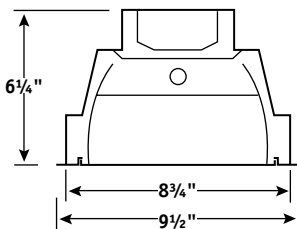


FEATURES

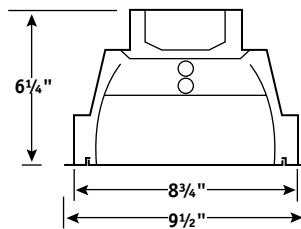
- Meets IES standard RP-1 glare control recommendations
- Ideal for today's computer intensive offices
- Wide light distribution provides uniform illumination
- Unique optical system eliminates glare
- Low iridescent anodized aluminum louver and reflector
- White powder coat finished painted after fabrication
- Surface and pendant mount available
- Symmetric and asymmetric distribution
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

VHC	94	-				-	LS		-								
MODEL VHC Standard VHC	NO. OF LAMPS 1 One 2 Two See Product Availability table below.			LOUVER FINISH LS Low Iridescent Specular	CELLS WIDE BY CELLS LONG 113 Thirteen Cell 115 Fifteen Cell (55° Cutoff)				VOLTAGE U 120V-277V 347 347V								
SIZE 94 9" x 4'	LAMP TYPE 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5H0: 54 or 51 Watt		CEILING TYPE GT Integral Cross-tee F Overlap Flange G Lay-in (GT is typically recommended) SM Surface Mount	AIR FUNCTION S Static H Heat Extract (No dampers)	DISTRIBUTION OPTIONS Blank Symmetric Distribution 1WW Asymmetric Wall Wash 2WW Double Wall Wash												
				BALLAST NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start	OPTIONS F0735 35K 75CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MSEE Master/Satellite End-to-End NYC NYC Compliant NYCU NYC Compliant, Union Label												



VHC94-1 GT



VHC94-2 GT

PRODUCT AVAILABILITY

MODEL	SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
VHC	9" x 4'	1	28, 32, 54	1 x 13 (13), 1 x 15 (15)
		2	28, 32, 54	1 x 13 (13), 1 x 15 (15)

Type GT Integral cross-tee. Grid ends lay into standard T-Bar. Sides act as integral cross tees to support tile. Fits standard 1" wide, 1 1/2" tall tee. Cut ceiling tiles into two 7 7/8" strips.

FEATURES

- Meets IES standard RP-1 glare control recommendations
- Ideal for today's computer intensive offices
- Wide light distribution provides uniform illumination
- Unique optical system eliminates glare
- Treated with a five-stage phosphate bonding process and finished with a baked white enamel
- Low iridescent anodized aluminum louver and reflector
- Surface and pendant mount available
- Mechanical light trap prevents light leaks
- Black reveal with full air handling capabilities
- UL listed 1598, cUL or CSA. Damp Location standard



PARABOLICS

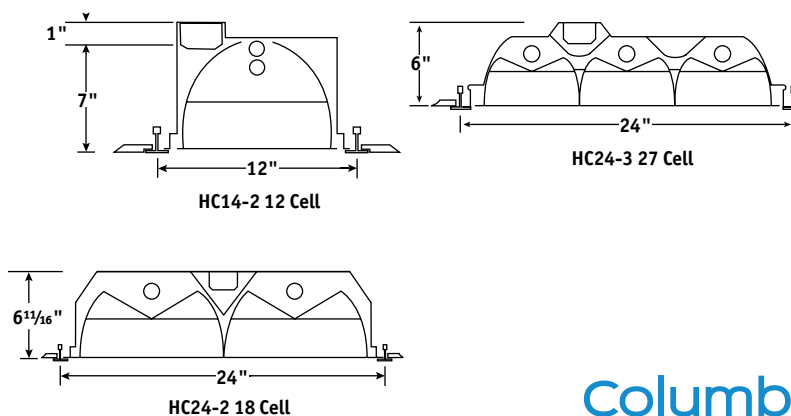
ORDERING INFORMATION

HC										
MODEL	NO. OF LAMPS	CEILING TYPE			CELLS WIDE BY CELLS LONG	AIR CONTROL	VOLTAGE			
HC Low Glare Parabolic	1 One 2 Two 3 Three See Product Availability table below.	G Grid F Overlap Flange M Modular Fit-in Trim SG Slot Grid SM Surface Mount*	See Product Availability table below.			See Product Availability table below.	Blank None V Supply Vanes D Extract Dampers VD Vanes & Dampers	U 120V-277V 347 347V		
SIZE	LAMP TYPE	LOUVER FINISH			AIR FUNCTION	BALLAST		OPTIONS		
14 1' x 4'	28 4', T5: 28 Watt	LD Low Iridescent Semi-Specular (Std.) LS Low Iridescent Specular See Product Availability table below.			S Static A Air Handling C Combination Supply/Extract H Heat Extract	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start ETT Electronic Twin Tube, Instant Start (Specify voltage)		F0735 35K 75CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed C388 3-Wire Flex C488 4-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MS9 Master/Satellite w/9' Harness PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label		

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS	LOUVER FINISH
1' x 4'	1	28, 32, 54	1 x 12 (12)	LD, LS
	2	28, 32, 54	1 x 12 (12)	LD, LS
2' x 2'	2	31U1, 40TT	2 x 4 (8)	LD, LS
	2*	40TT	3 x 4 (12)	LD, LS
	2*	32U6	3 x 4 (12)	LD, LS
2' x 4'	2	28, 32, 54	2 x 9 (18)	LD, LS
	3	28, 32, 54	3 x 9 (27)	LD, LS

If desired lamp or louver configuration is not shown above, contact your local Columbia Lighting representative. PVHC meets RP-1 preferred standards. Various options may increase fixture height on 2' x 2' units. Contact your Columbia Lighting representative if plenum depth is a concern. Standard louver finish shown in bold.
*Not available in surface mount.



Recessed 4" Deep Cell Parabolic

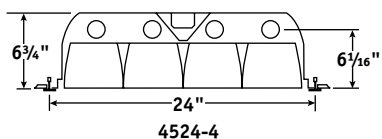
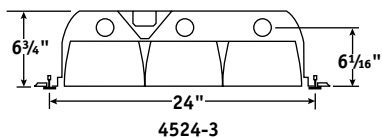
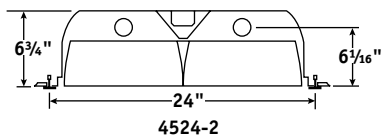
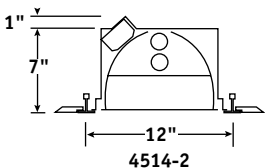


FEATURES

- Meets IES standard RP-1 glare control recommendations on most models
- Ideal for today's computer intensive offices
- Wide light distribution provides uniform illumination
- 4" deep low iridescent anodized aluminum louver
- Surface mount available
- Mechanical light trap prevents light leaks
- Black reveal with full air handling capabilities
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

45									
MODEL	NO. OF LAMPS	CEILING TYPE	CELLS WIDE BY CELLS LONG	AIR CONTROL	VOLTAGE	OPTIONS			
45 Recessed 4" Deep Cell Parabolic	1 One 2 Two 3 Three 4 Four 6 Six 8 Eight See Product Availability table below.	G Grid F Overlap Flange M Modular Fit-in Trim SM Surface Mount (Static only) SG Slot Grid	See Product Availability table below.	V Supply Vanes D Extract Dampers VD Vanes & Dampers	U 120V-277V 347 347V	F0735 35K 75CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed 2BC Two Ballast Covers C388 3-Wire Flex C488 4-Wire Flex EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MS9 Master/Satellite w/9' Harness PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label			
SIZE	LAMP TYPE	LOUVER FINISH	AIR FUNCTION	BALLAST					
14 1' x 4' 22 2' x 2' 24 2' x 4' 44 4' x 4'	17 2', T8: 17 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1 7/8" Leg Spacing T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 or 51 Watt	LD Low Iridescent Semi-Specular (Std.) LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum	S Static A Air Handling C Combination Supply/Extract H Heat Extract	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start 3ETT 3-Lamp Electronic Twin Tube, Instant Start (Specify voltage) For a specific ballast vendor show as option.					



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LOUVER CONFIGURATIONS
1' x 4'	1	28, 32, 54	1 x 6 (6), 1 x 9 (9)
	2	28, 32, 54	1 x 6 (6), 1 x 9 (9)
2' x 2'	2	17, 31U1, 32U6, 40TT	3 x 3 (9), 4 x 4 (16)
	3	17, 31U1, 40TT	3 x 3 (9), 4 x 4 (16)
2' x 4'	2	28, 32, 54	2 x 6 (12), 2 x 8 (16), 4 x 6 (24), 4 x 8 (32)
	3	28, 32, 54	3 x 6 (18), 3 x 8 (24)
	4	28, 32, 54	2 x 6 (12), 2 x 8 (16), 4 x 6 (24), 4 x 8 (32)
4' x 4'	6	28, 32, 54	6 x 6 (36), 8 x 8 (64)
	8	28, 32, 54	6 x 6 (36), 8 x 8 (64)

Standard louver configurations shown in bold. For other lamp or louver configurations, contact your local Columbia Lighting representative. Various options may increase fixture height on 2' x 2' units. Contact your Columbia Lighting representative if plenum depth is a concern.

Parawash Recessed Wall Wash

FEATURES

- Wall washing makes an environment appear larger and brighter
- Wide light distribution provides uniform illumination at up to 8' spacings
- Models with unique kicker reflector directs majority of light on wall up to the ceiling line
- Used at ends and sides of parabolic rows
- Choice of linear kicker reflector or cross baffle
- Anodized low iridescent aluminum reflector
- Ideal for office, retail, or video conferencing
- White powder coat finish painted after fabrication
- UL listed 1598, cUL or CSA. Damp Location standard



PARABOLICS

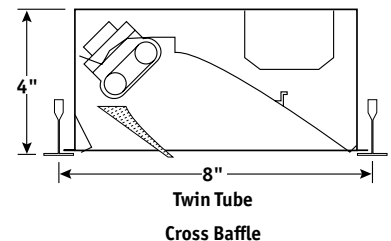
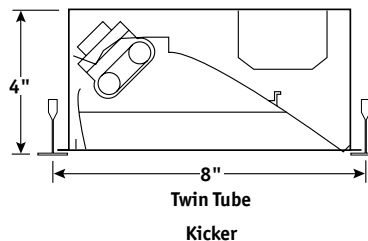
ORDERING INFORMATION

PW	1		LD				
MODEL PW Parawash Recessed Wall Wash	NO. OF LAMPS 1 One See Product Availability table below.	CEILING TYPE G Grid SG Slot Grid SM Surface Mount	REFLECTOR FINISH LD Low Iridescent Semi-Specular (Std.)	APERTURE K Kicker B Cross Baffle	BALLAST E Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start ETT Electronic Twin Tube, Instant Start (Specify Voltage)	VOLTAGE U 120V-277V 347 347V	OPTIONS EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse LENS Spread Lens (Twin tube kicker unit only) NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE	LAMP TYPE						ACCESSORIES (ORDER SEPARATELY)
81 8" x 1'	17 2', T8: 17 Watt						PWFK81 8" x 1' Flange Kit
82 8" x 2'	28 4', T5: 28 Watt						PWFK82 8" x 2' Flange Kit
84 8" x 4'	32 4', T8: 32, 30, 28 or 25 Watt						PWFK84 8" x 4' Flange Kit
	18TT 1' Twin Tube Compact, 18 Watt						
	40TT Twin Tube Compact, 2G11 Base: 40 Watt						
	54 4', T5HO: 54 or 51 Watt						

PRODUCT AVAILABILITY

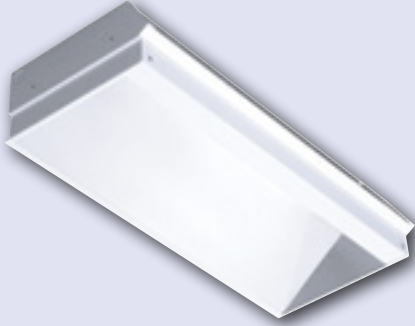
SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN UNIT	LAMP TYPE	CROSS BAFFLE CONFIGURATIONS
8" x 1'	1	1	18TT	1 x 4 (4)
8" x 2'	1	1	17, 40TT	1 x 9 (9)
8" x 4'	1	1	28, 32, 54	1 x 18 (18)
	1	2	40TT	1 x 18 (18)

If desired lamp or cross baffle configuration is not shown above, contact your local Columbia Lighting representative.



Fluorescent Wall Wash

PARABOLICS

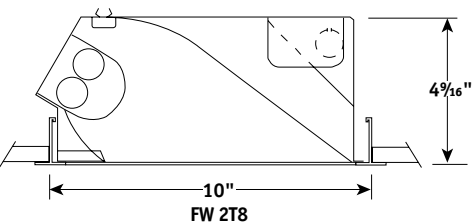
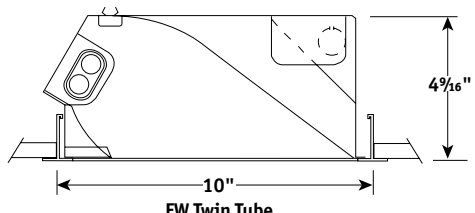


FEATURES

- Wall wash luminaire
- Directs majority of light to vertical surface
- Brighter walls open up spaces, minimize contrast ratios
- Versatile and economical
- Presents a clean, uninterrupted reflecting surface
- Contractor friendly
- Wireway completely accessible from below
- Suitable for individual or continuous row mounting
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

FW									
MODEL FW Fluorescent Wall Wash	NO. OF LAMPS 1 One 2 Two (Not available in Twin Tube) See Product Availability table below.	CEILING TYPE G Grid SM Surface Mount (For hard ceiling use flange kit.)	REFLECTOR FINISH LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum MW Matte White	VOLTAGE U 120V-277V 347 347V	OPTIONS EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse MS9 Master/Satellite Pair with 9' Harness MSEE Master/Satellite End-To-End NYC NYC Compliant NYCU NYC Compliant, Union Label	SIZE 102 10" x 2' 104 10" x 4'	LAMP TYPE 14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 32 4', T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 Watt	BALLAST NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start ETT Electronic Twin Tube, Instant Start (Specify voltage) EPTT Electronic Twin Tube, Programmed Start	ACCESSORIES (ORDER SEPARATELY) FK102 Flange Adaptor for Hard Ceilings, 2' Fixture FK104 Flange Adaptor for Hard Ceilings, 4' Fixture



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN UNIT	LAMP TYPE	HEIGHT	LENGTH
10" x 2'	1	1	14, 17, 24, 40TT	4 9/16"	24"
	2	2	14, 17, 24	4 9/16"	24"
10" x 4'	1	1	28, 32, 54, 40TT	4 9/16"	48"
	1	2	40TT	4 9/16"	48"
	2	2	28, 32, 54	4 9/16"	48"
	2	2	28, 32, 54	4 9/16"	48"

APPLICATION PHOTOS



P4D Parabolic



EnergyMax® Parabolic

HH/HV

Recessed HID Parabolic

PARABOLICS

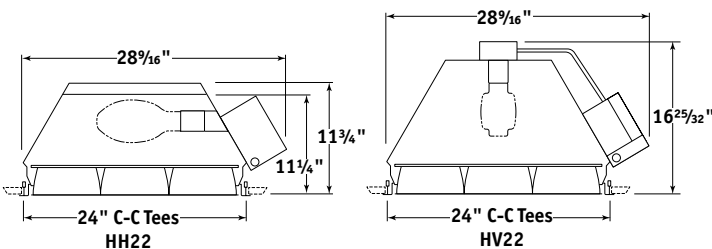


FEATURES

- Ideal for manufacturing areas, retail stores, and gymnasiums
- Metal halide lamp
- Horizontal or vertical lamp position
- Tempered glass overlay
- Ballast accessible from below
- Ballast housing is Label of aluminum for maximum heat dissipation
- Black reveal with air handling capabilities
- White powder coat finish, painted after fabrication
- Uses EISA compliant pulse start metal halide technology
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

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MODEL	LAMP TYPE		CEILING TYPE		CELLS WIDE BY CELLS LONG		AIR FUNCTION		VOLTAGE					
HH Horizontal Lamp Orientation HV Vertical Lamp Orientation	P Pulse Start, Metal Halide		F Flange G Grid		See Product Availability table below.		S Static A Air Handling		U 120V-277V 347 347V 480 480V QT Quad-Tap, 120V, 208V, 240V, 277V					
	SIZE		LAMP WATTS		LOUVER FINISH		AIR CONTROL							OPTIONS
	22 2' x 2'		175 175 Watt 200 200 Watt 250 250 Watt 320 320 Watt 350 350 Watt 400 400 Watt		LD Low Iridescent Semi-Specular LS Low Iridescent Specular		Blank None V Supply Vanes							GLR Fast Blow Fuse QR Quartz Restrike NYC NYC Compliant NYCU NYC Compliant, Union Label



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	LAMP WATTAGE	LOUVER CONFIGURATIONS
2' x 2'	1	P	175, 250, 320, 400	3 x 3 (9), 4 x 4 (16)

If desired lamp or louver configuration is not shown above, contact your local Columbia Lighting representative.

Specification Grade Static Troffer

FEATURES

- Fluorescent, energy efficient light source
- Excellent lamp-to-lens spacing
- Flush door is formed steel with mitered corners
- Hemmed or rolled edge housing
- Steel corner hinges ensure a snug door fit eliminating light leaks
- Doors are retained by cam latches and hinge from either side
- Spring loaded latches optional
- Recessed, surface or cable mount
- Row mounting available. Must specify at time of order
- Painted parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard
- Available with exclusive wiHUBB technology preinstalled



LENSED TROFFERS

ORDERING INFORMATION

4PS									
MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE					
4PS Specification Grade Static Troffer	1 One 2 Two 3 Three 4 Four 6 Six (2x4 only) See Product Availability table below.	G Inverted T-Bar F Overlap Flange M Modular SM Surface Mount CM Cable Mount ¹	A12 Pattern 12 Acrylic Lens A12125 Pattern 12 Acrylic Lense, 0.125" Nominal A15 Pattern 15 Acrylic Lens A19 Pattern 19 Acrylic Lens, 0.156" Nominal PC1 ½" × ½" × ½" Specular Silver Polystyrene Louver PC2 1½" × 1½" × 1" Specular Silver Polystyrene Louver For more shielding options see Door Frame and Diffuser Options page.	U 120V-277V 347 347V					
		DOOR		OPTIONS					
		FS White Flush Steel FA White Flush Aluminum RA White Regressed Aluminum SFA Silver Flush Aluminum SRA Silver Regressed Aluminum		F0735 35K 75CRI T8 Lamps Installed F0741 41K 75 CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 Lamps Installed EL Emergency Battery Pack Installed EL5 Emergency Battery Pack, T5 or T5HO C388 3-Wire Flex C488 4-Wire Flex H Heat Extract (No Dampers) GLR Fast Blow Fuse MS9 Master/Satellite Pair w/9' Harness SLL Spring Loaded Latches NYC NYC Compliant NYCU NYC Compliant, Union Label WIH wiHUBB Enabled ^{2,3}					
			BALLAST	NOTE: See Technical Section for other ballast options.					
SIZE	LAMP TYPE			E Electronic T8, Instant Start					
14 1' × 4'	14 2', T5: 14 Watt			3E 3-Lamp Electronic T8, Instant Start					
22 2' × 2'	17 2', T8: 17 Watt			4E 4-Lamp Electronic T8, Instant Start					
24 2' × 4'	24 2', T5HO: 24 Watt			EP Electronic T5 or T8, Programmed Start					
	28 4', T5: 28 Watt			3EP 3-Lamp Electronic T5HO or T8, Programmed Start					
	31U1 U-Bent, 1½" Leg Spacing T8: 31 Watt			4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start					
	32 4', T8: 32, 30, 28 or 25 Watt			ETT Electronic Twin Tube, Instant Start					
	32U6 U-Bent, 6" Leg Spacing T8: 32 Watt			ELW 2-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start					
	40TT Twin Tube Compact, 2G11 Base: 40 Watt			3ELW 3-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start					
	54 4', T5HO: 54 or 51 Watt			4ELW 4-Lamp Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start					
				EPTT Electronic Twin Tube, Programmed Start					

¹ Order hanger accessories separately.

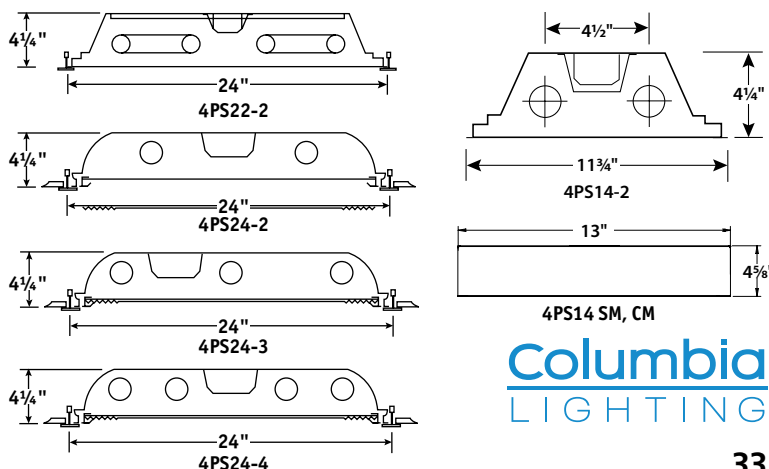
² Not available with Surface Mount Ceiling Types.

³ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	G TRIM HEIGHT*	F TRIM HEIGHT*	SM Trim height
1' × 4'	1	28, 32, 54	4¼"	4¾"	4⅝"
	2	28, 32, 54	4¼"	4¾"	4⅝"
	3	28, 32, 54	4¼"	4¾"	4⅝"
2' × 2'	2	14, 17, 24, 31U1, 32U6, 40TT	4¼"	*	4⅝"
	3	14, 17, 24, 31U1, 40TT	4¼"	*	4⅝"
	4	14, 17, 24	4¼"	*	4⅝"
2' × 4'	2	28, 32, 54	4¼"	4½"	5⅜"
	3	28, 32, 54	4¼"	4½"	5⅜"
	4	28, 32, 54	4¼"	4½"	5⅜"
	6	28, 32, 54	4¼"	4½"	5⅜"

*Some ceiling types and options may increase height of 2' × 2' units. Typically 4¼" high, some options may increase this to 6⅝". Please contact your Columbia Lighting representative for details.



Columbia
LIGHTING

ST8

Low Profile Specification Troffer

LENSED TROFFERS



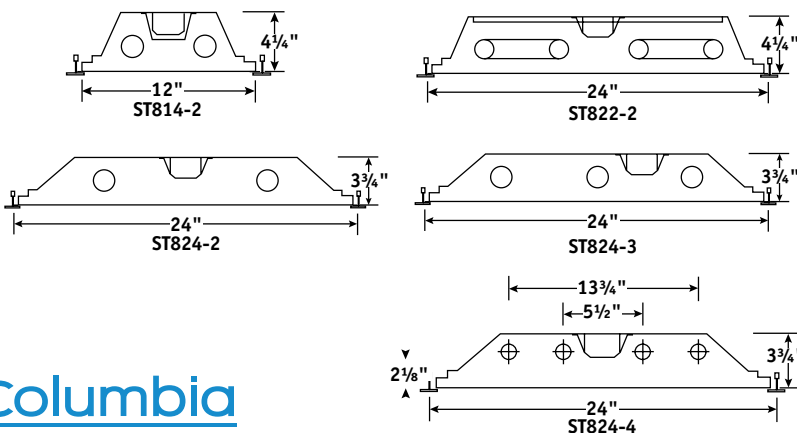
FEATURES

- Optical performance designed for T8 lamp technology
- 2 1/8" minimum spacing from bottom of lamp to bottom of lens
- Mechanical light seal
- Rolled fixture edges for comfortable handling
- Spring loaded latches optional
- Integral T-Bar clips (2' x 4' only)
- Snap-in ballast covers can be removed when lamps are installed
- Optional flush or regressed aluminum door frames available
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

ST8							
MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE			
ST8 Low Profile Specification Troffer	1 One 2 Two 3 Three 4 Four 6 Six 8 Eight <small>See Product Availability table below.</small>	G Inverted T-Bar F Overlap Flange	A12 Pattern 12 Acrylic 0.100" Nominal (Std.) A12.125 Pattern 12 Acrylic 0.125" Nominal A19 Pattern 19 Acrylic 0.156" Male Prism PC1 Silver Parabolic Louver 1/2" x 1/2" x 1/2" PC2 Silver Parabolic Louver 1 1/2" x 1/2" x 1" <small>For more shielding options see page 41.</small>	U 120V-277V 347 347V			

SIZE	LAMP TYPE	DOOR	BALLAST	OPTIONS
14 1' x 4'	17 2', T8: 17 Watt	FS Flush Steel	NOTE: See Technical Section for other ballast options.	F0735 35K 70CRI T8 Lamps Installed
22 2' x 2'	31U1 U-Bent, 1 3/8" Leg Spacing T8: 31 Watt (2 lamps)	FA Flush Aluminum	E Electronic T8, Instant Start	F0835 35K 80CRI T8 Lamps Installed
24 2' x 4'	28 4', T5: 28 Watt	RA Regressed Aluminum	3E 3-Lamp Electronic T8, Instant Start	EL Emergency Battery Pack
	32 4', T8: 32, 30, 28 or 25 Watt	PS Premium Steel	4E 4-Lamp Electronic T8, Instant Start	GLR Fast Blow Fuse
	32U6 U-Bent, 6" Leg Spacing T8: 32 Watt (2 or 3 lamps)	TFS Twin Flush Steel (4' x 4' only, includes one door with center support frame for two lenses)	EP Electronic T5 or T8, Programmed Start	MS9 Master/Satellite Pair w/9' Harness
	40TT Twin Tube Compact 2G11 Base: 40 Watt (2 or 3 lamps)		3EP 3-Lamp Electronic T5H0 or T8, Programmed Start	PAF Paint After Fabrication
	54 4', T5H0: 54 or 51 Watt		4EP 4-Lamp Electronic T5H0 (N/A 347V) or T8, Programmed Start	SLL Spring Loaded Latches
			EPTT Electronic Twin Tube, Programmed Start	NYC NYC Compliant
				NYCU NYC Compliant, Union Label



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	GRID TRIM HEIGHT
1' x 4'	1	28, 32, 54	4 7/8"
	2	28, 32, 54	4 3/4"
	3	28, 32, 54	4 7/8"
2' x 2'	2	17, 31U1, 32U6, 40TT	4 1/4"
	3	17, 31U1, 40TT	4 3/4"
	4	17	4 1/4"
2' x 4'	2	28, 32, 54	3 3/4"
	3	28, 32, 54	3 3/4"
	4	28, 32, 54	3 3/4"
	6	28, 32, 54	3 3/4"

Wet Location Lensed Troffer

FEATURES

- Wet label shallow housing troffer
- Gasketed to provide additional seal between door, lens, and housing
- Mitered corners standard on door frame
- Rolled or hemmed housing edges
- Mechanical light trap
- All metal parts are white powder coat, painted after fabrication
- UL listed 1598, cUL or CSA. Wet Location standard



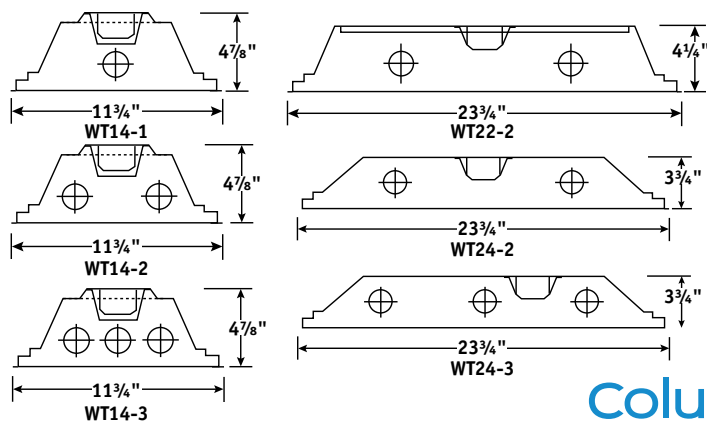
LENSED TROFFERS

ORDERING INFORMATION

WT									
MODEL	NO. OF LAMPS	CEILING TYPE	SHIELDING	VOLTAGE	SIZE	LAMP TYPE	DOOR	BALLAST	OPTIONS
WT Wet Location Lensed Troffer	1 One 2 Two 3 Three 4 Four 6 Six See Product Availability table below.	G Inverted T-Bar F Overlap Flange	A12 Pattern 12 Acrylic 0.100" Nominal (Std.) A12.125 Pattern 12 Acrylic 0.125" Nominal A19 Pattern 19 Acrylic 0.156" Male Prism DR12 High Impact Acrylic Pattern 12, .140" (Std.)	U 120V-277V 347 347V	14 1' x 4' 22 2' x 2' 24 2' x 4'	14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1½" Leg Spacing T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 or 51 Watt	FA White Flush Aluminum RA White Regressed Aluminum	E Electronic T8, Instant Start 3E 3-lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-lamp Electronic Programmed Start (T8, T5HO) Others available. 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start EPTT Electronic Twin Tube, Programmed Start	F0735 35K 70CRI T8 Lamps Installed F0835 35K 80CRI T8 Lamps Installed F5835 35K 80CRI T5 Lamps Installed GLR Fast Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	GRID TRIM HEIGHT
1' x 4'	1	28, 32, 54	4 7/8"
	2	28, 32, 54	4 3/4"
	3	28, 32, 54	4 7/8"
2' x 2'	2	14, 17, 24, 31U1, 32U6, 40TT	4 3/4"
	3	14, 17, 24, 31U1, 40TT	4 3/4"
	4	14, 17, 24	4 3/4"
2' x 4'	2	28, 32, 54	3 3/4"
	3	28, 32, 54	3 3/4"
	4	28, 32, 54	3 3/4"
	6	28, 32, 54	3 3/4"



5PA

Specification Grade Air Handling Troffer

LENSED TROFFERS



FEATURES

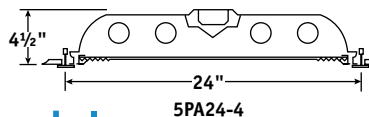
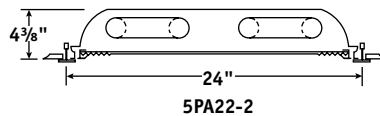
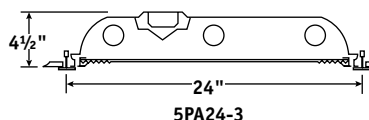
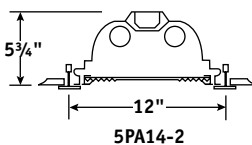
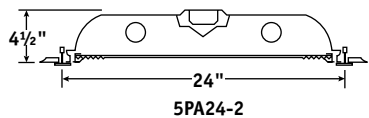
- Contoured housing maximizes uniform photometric performance
- Mitered corners on door presents a clean appearance
- Painted parts are treated with a five stage phosphate bonding process and finished with a baked white enamel; door is painted after fabrication
- Mechanical light trap prevents light leaks
- Unique stepped ballast cover prevents shadowing
- Black reveal with full air handling capabilities
- Doors are retained by spring steel latches and hinge from either side
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

5PA - [] - [] - [] - [] - [] - [] - [] - []

MODEL	NO. OF LAMPS	CEILING TYPE	DOOR	AIR HANDLING	AIR CONTROL	VOLTAGE
5PA Specification Grade Air Handling Troffer	1 One 2 Two 3 Three 4 Four 6 Six See Product Availability table below.	G Grid Overlap F Flange M Modular Fit-in Trim SG Slot Grid	FA White Flush Aluminum RA White Regressed Aluminum	S Static A Air Supply/Return H Heat Extract C Combination Supply/Extract	Blank None V Air Supply/Return Vanes D Heat Extract Dampers VD Supply/Return Vanes & Heat Extract Dampers	U 120V-277V 347 347V

SIZE	LAMP TYPE	SHIELDING	BALLAST	OPTIONS
14 1' x 4'	14 2', T5: 14 Watt	A12 Acrylic Prismatic Pattern 12	E Electronic T8, Instant Start	F0735 35K 75CRI T8 Lamps Installed
22 2' x 2'	17 2', T8: 17 Watt	A19 Acrylic Prismatic Pattern 19	3E 3-Lamp Electronic T8, Instant Start	F0835 35K 80CRI T8 Lamps Installed
24 2' x 4'	24 2', T5H0: 24 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1 5/8" Leg Spacing, T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing, T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5H0: 54 or 51 Watt	PC1 1/2" x 1/2" x 1/2" Specular Silver Polystyrene Louver PC2 1 1/2" x 1 1/2" x 1" Specular Silver Polystyrene Louver	4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5H0 or T8, Programmed Start 4EP 4-Lamp Electronic T5H0 (N/A 347V) or T8, Programmed Start ETT Electronic Twin Tube, Instant Start EPTT Electronic Twin Tube, Programmed Start	F5835 35K 80CRI T5 Lamps Installed EL Emergency Battery Pack GLR Fast Blow Fuse MS9 Master/Satellite w/9' Harness PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	GRID TRIM HEIGHT
1' x 4'	1	28, 32, 54	5 3/4"
	2	28, 32, 54	5 3/4"
	3	28, 32, 54	5 3/4"
2' x 2'	2	14, 17, 24, 31U1, 32U6, 40TT	4 3/8"
	3	14, 17, 24, 31U1, 40TT	4 3/8"
	4	14, 17, 24	4 3/8"
2' x 4'	2	28, 32, 54	4 1/2"
	3	28, 32, 54	4 1/2"
	4	28, 32, 54	4 1/2"
	6	28, 32, 54	4 1/2"

Vandal Resistant Specification Grade Troffer

FEATURES

- Flush steel or aluminum door frame secured by four or six tamper resistant screws
- Stainless steel tamper resistant screws optional
- High impact lens for maximum durability
- Grid, flange, or modular trims available
- Painted parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard



LENSED TROFFERS

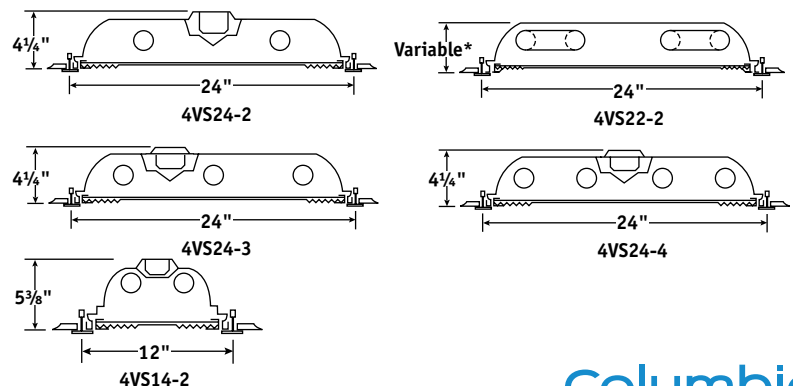
ORDERING INFORMATION

4VS										
MODEL	NO. OF LAMPS	CEILING TYPE	DOOR	VOLTAGE	TAMPER RESISTANT OPTIONS	SIZE	LAMP TYPE	SHIELDING	BALLAST	OPTIONS
4VS Vandal Resistant Specification Grade Troffer	2 Two 3 Three 4 Four See Product Availability table below.	G Grid Overlap F Flange M Modular Fit-in Trim	FS Flush Steel FA Flush Aluminum	U 120V-277V 347 347V	TP4 (4) Tamper Resistant Screws (Std.) TP6 (6) Tamper Resistant Screws TPS4 (4) Stainless Steel Tamper Resistant Screws TPS6 (6) Stainless Steel Tamper Resistant Screws	14 1' x 4' 22 2' x 2' 24 2' x 4'	14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1 1/8" Leg Spacing, T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing, T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 or 51 Watt	DR12 High Impact Acrylic Pattern 12, .140" (Std.) AT12 KSH Acri-Tuf, .140" LG250 Polycarbonate Acrylic Laminate Lens, .250" LG375 Polycarbonate Acrylic Laminate Lens, .375"	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start ETT Electronic Twin Tube, Instant Start EPTT Electronic Twin Tube, Programmed Start	F0735 35K 75CRI T8 Lamps Installed F0835 35K 80CRI T8 Lamps Installed F5835 35K 80CRI T5 Lamps Installed EL Emergency Battery Pack GLR Fast Blow Fuse H Heat Extract (No Dampers) MS9 Master/Satellite w/9' Harness PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	GRID TRIM HEIGHT*	FLANGE TRIM HEIGHT*
1' x 4'	1	28, 32, 54	5 3/8"	5 3/8"
	2	28, 32, 54	5 3/8"	5 3/8"
	3	28, 32, 54	5 3/8"	5 3/8"
2' x 2'	2	14, 17, 24, 31U1, 32U6, 40TT	*	*
	3	114, 17, 24, 31U1, 40TT	*	*
	4	14, 17, 24	*	*
2' x 4'	2	28, 32, 54	4 1/4"	4 1/2"
	3	28, 32, 54	4 1/4"	4 1/2"
	4	28, 32, 54	4 1/4"	4 1/2"
	6	28, 32, 54	4 1/4"	4 1/2"

*Some ceiling types and options may increase height of 2' x 2' units. Typically 4 3/8" high, some options may increase this to 6 1/8". Please contact your Columbia Lighting representative for details.



M46

Specification Grade Circular Regressed Static Troffer

LENSED TROFFERS

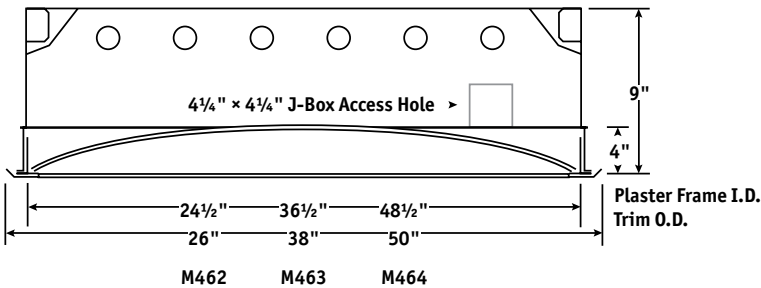


FEATURES

- Meets demanding architectural and aesthetic requirements
- 9" deep housing ensures no lamp imaging in lens
- Deep plaster flange accommodates various ceiling thicknesses
- 18-gauge steel plaster ring eliminates light leaks
- Steel lens clips hold lens firmly in place
- Thick, arched acrylic diffuser conceals light source yet permits high transmission of light
- White powder coat finish, painted after fabrication
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

M46	-		-	F	-	FS	-	OP	-		-	
MODEL	NO. OF LAMPS	CEILING TYPE	DOOR	SHIELDING	VOLTAGE							
M46 Specification Grade Circular Regressed Static Troffer	2 Two 4 Four 6 Six 8 Eight See Product Availability table below.	F Overlap Flange	FS White Flush Steel (Std.)	OP Translucent White Lens	U 120V-277V 347 347V							
SIZE	LAMP TYPE	BALLAST		OPTIONS								
2 2' Diameter 3 3' Diameter 4 4' Diameter	14 2', T5: 14 Watt 17 2', T8: 17 Watt 21 3', T5: 21 Watt 24 2', T5HO: 24 Watt 25 3', T8: 25 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1½" Leg Spacing, T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing, T8: 32 Watt 39 3', T5HO: 38 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 or 51 Watt	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start		EL Emergency Battery Pack GLR Fast Blow Fuse NYC NYC Compliant NYCU NYC Compliant, Union Label								



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	HEIGHT
2' Diameter	2	31U1, 32U6, 40TT	9"
	4	14, 17, 24	9"
	6	14, 17, 24	9"
3' Diameter	4	21, 25, 39	9"
	6	21, 25, 39	9"
4' Diameter	4	28, 32, 54	9"
	6	28, 32, 54	9"
	8	28, 32, 54	9"

Note: M46 must be installed prior to ceiling.

HH/HV Lensed

Recessed HID Lensed Troffer

FEATURES

- Ideal for manufacturing areas, retail stores, and gymnasiums
- Horizontal or vertical lamp position
- Choice of tempered glass or acrylic lens with tempered glass overlay
- Ballast accessible from below
- Ballast housing is Label of aluminum for maximum heat dissipation
- White powder coat finish, painted after fabrication
- Uses EISA compliant pulse start metal halide technology
- Louvered version also available, see Parabolics section
- UL listed 1598, cUL or CSA. Damp Location standard



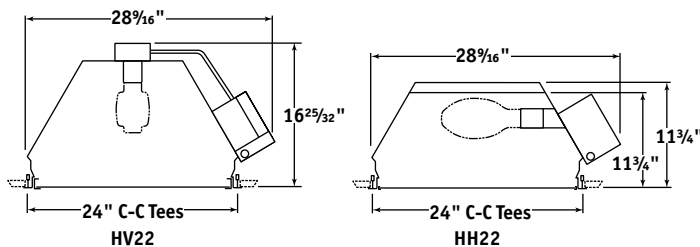
LENSED TROFFERS

ORDERING INFORMATION

MODEL	LAMP TYPE	CEILING TYPE	SHIELDING	VOLTAGE	OPTIONS
HH Horizontal Lamp Orientation HV Vertical Lamp Orientation	P Pulse Start Metal Halide	G Grid F Flange	TG73 Tempered Glass, Pattern 73 CTGY12 Clear Tempered Glass with A12 Underlay DP Drop Polycarbonate Lens ²	347 347V 480 480V QT Quad-Tap, 120V, 208V, 240V, 277V	GLR Fast Blow Fuse QR Quartz Restrike NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE	LAMP WATTS	DOOR	AIR HANDLING	WIRED TO	
22 2' x 2'	175 175 Watt 200 200 Watt 250 250 Watt 320 320 Watt 350 350 Watt 400 400 Watt ¹	FS White Flush Steel FA White Flush Aluminum RA White Regressed Aluminum	S Static	277 277V (Std.) 120 120V 208 208V 240 240V	

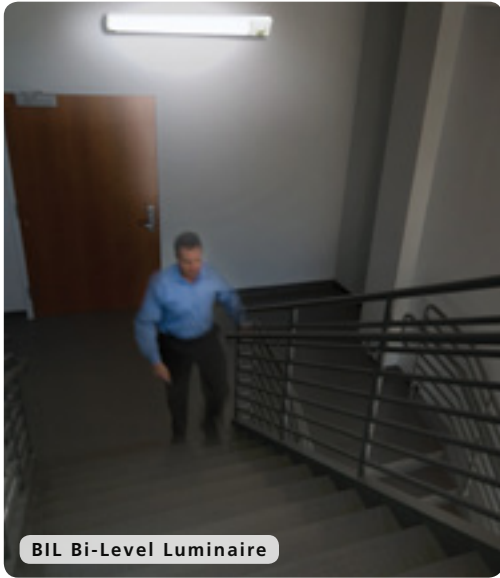
¹400W horizontal positioned lamp listed for Marked Spacing only. See specification sheet for details.

²Available with FS door only.



APPLICATION PHOTOS

APPLICATION PHOTOS



BIL Bi-Level Luminaire



LHV Versabay® Fluorescent High Bay

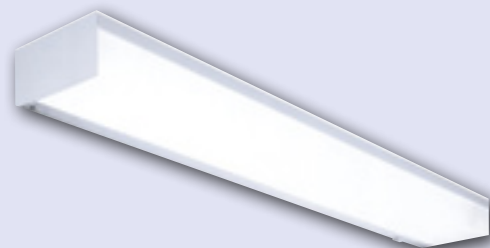


ST8 Low Profile Specification Troffer

Low Profile Wall Mount

FEATURES

- Low profile
- Downlight only or up/downlight, with or without uplight reflector
- One piece clear prismatic acrylic diffuser with 25% DR
- Diffuser easily removable for lamp access and cleaning
- Heavy gauge steel housing with embossments
- Injection molded thermoplastic, textured end caps
- All metal parts are powder coated white after fabrication
- Choice of T5, T8, or Twin Tube lamps
- UL listed 1598, cUL or CSA. Damp Location standard



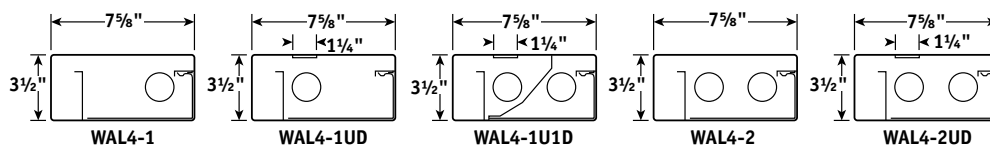
SURFACE

ORDERING INFORMATION

MODEL	SIZE	LAMP TYPE	VOLTAGE	OPTIONS
WAL Low Profile Wall Mount	2 2' 3 3' 4 4'	17 2' T8: 17 Watt 25 3' T8: 25 Watt 28 4' T5: 28 Watt 32 4' T8: 32, 30, 28 or 25 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt (2' and 4' units only, see table below) 54 4' T5HO: 54 or 51 Watt	U 120V-277V 347 347V	EL Emergency Battery Pack GCO Grounded Convenience Outlet (120V only) GLR Fast Blow Fuse PSW Pull Switch, One Circuit (120V only) RSWD Rotary Switch, Wired to the Downlight Circuit on a Two Circuit Unit (120V only) PSWD Pull Switch, Wired to the Downlight Circuit on a Two Circuit Unit (120V only) 4PSW Four-way Pull Switch, for Two Circuit, 2-Lamp Units (120V only) LUB Less Uplight Baffle NSW Night Light With Rotary Switch (120V only) NL Incandescent Night Light Socket (120V only) PL7 Fluorescent Night Light for 7W T-4 G23 lamp. (Lamp not included). PL ballast will default to fixture voltage unless specified. Not available in 2' unit with battery pack. PL9 Fluorescent Night Light for 9W T-4 G23 lamp. (Lamp not included). PL ballast will default to fixture voltage unless specified. Not available in 2' unit with battery pack. PL13 Fluorescent Night Light for 13W T-4 GX23 lamp. (Lamp not included). PL ballast will default to fixture voltage unless specified. Not available in 2' unit with battery pack. NYC NYC Compliant NYCU NYC Compliant, Union Label
	NO. OF LAMPS 1 1-Lamp, Downlight 2 2-Lamps, Downlight 1UD 1-Lamp, Uplight & Downlight 1U1D 1-Lamp Uplight, 1-Lamp Downlight 2UD 2-Lamps, Uplight & Downlight See Product Availability table below.	BALLAST E Electronic T8, Instant Start 11E Two 1-Lamp Ballasts, Instant Start EP Electronic T5 or T8, Programmed Start EPTT Electronic Twin Tube, Programmed Start		

PRODUCT AVAILABILITY

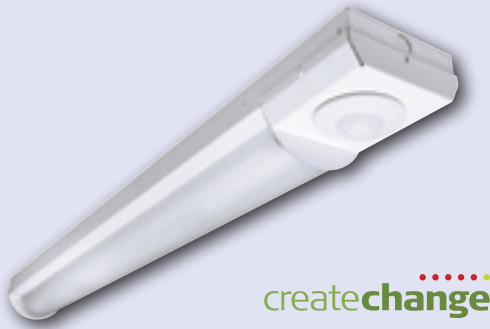
SERIES	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE
WAL2	1	1	17, 40TT
	2	2	17, 40TT
WAL3	1	1	25
	2	2	25
WAL4	1	1	28, 32, 54
	2	2	28, 32, 54
	1	2	40TT
	2	4	40TT



BIL

Bi-Level Luminaire

SURFACE



createchange

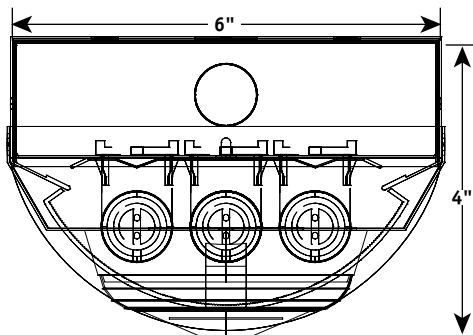
FEATURES

- Energy saving luminaire with integrated occupancy controls
- Bi-level light control offers safety and security
- Ideal for stairwells, parking structures, restrooms and areas where maximum light levels are not needed when area is unoccupied
- Contains a single low wattage 2' T8 lamp for constant light output while the 4' T8 lamps are controlled by an integral occupancy sensor
- Hubbell Building Automation- Internally mounted Passive Infrared Occupancy sensor with 360° coverage lens and a 2:1 radius to height ratio coverage pattern.
- Sensor includes adjustable time delay and motion sensitivity
- White aluminum body allows for greater heat dissipation
- Tool-less access to ballast for ease of maintenance
- Can be surface mounted or suspended
- Multiple ballast options available for needed energy savings and light output
- Fail-safe operation switches light level to 100% if sensor is damaged
- UL Listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

BIL	4	2	32		U	
MODEL BIL Bi-Level Luminaire	NO. OF LAMPS IN CROSS SECTION 2 Two See Product Availability table below.	PRIMARY BALLAST EP Electronic T8, 0.88 Ballast Factor, Programmed Start EPLW Electronic T8, 0.77 Ballast Factor, Low Wattage, Programmed Start EPHL Electronic T8, 1.18 Ballast Factor, High Light Output, Programmed Start	VOLTAGE U 120V-277V	OPTIONS F0730 30K 75CRI T8 Lamps Installed F0735 35K 75CRI T8 Lamps Installed F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed EL Emergency Battery Pack NYC NYC Compliant NYCU NYC Compliant, Union Label		
SIZE 4 4'	LAMP TYPE 32 4', T8: 32, 30, 28 or 25 Watt and 2', T8: 17 Watt					

Ballast Type	UNOCCUPIED (1) 17 WATT T8 LAMP		OCCUPIED (1) 17 WATT T8 LAMP & (2) 32 WATT T8 LAMPS	
	Watts	Lumens	Watts	Lumens
EP (0.88 BF)	15	989	74	4669
EPLW (0.77 BF)	15	989	62	4208
EPHL (1.18 BF)	15	989	90	5170



PRODUCT AVAILABILITY

SIZE	NO. OF CONTROLLED LAMPS	CONTROLLED LAMP TYPE	NO. OF CONSTANT LAMPS	CONSTANT LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	2	32	1	17	6"	54"	4"

Injection Molded/Extruded Wraparound

FEATURES

- Clear injection molded acrylic prismatic diffuser, flat bottom with vertical sides (MWN/MWW)
- Clear extruded acrylic prismatic diffuser, flat bottom, vertical sides, and injection molded luminous ends (EWN/EWW)
- Lens positively secured by torsion springs and can be easily removed
- Heavy gauge steel housing with embossments
- Sturdy metal end pieces provide overall strength to the fixture
- End cap has a clean appearance (knockout provided for continuous row only)
- Optional spacers allow direct mounting on combustible low density cellulose fiberboard ceilings
- White powder coat finish is applied after fabrication on all metal parts, less ballast cover (baked white enamel)
- Surface or stem mount
- UL listed 1598, cUL or CSA. Damp Location standard



WRAPS

ORDERING INFORMATION

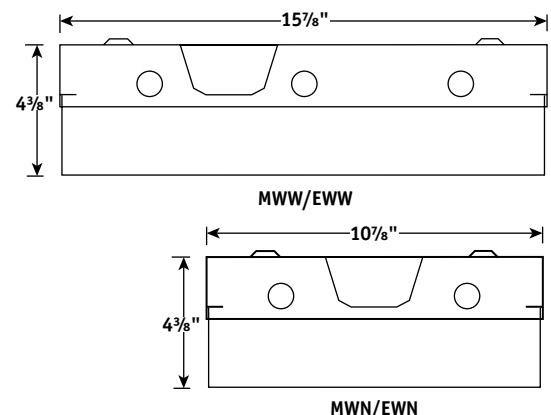
MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
Injection Molded Wrap	4 4'	2 Two 3 Three 4 Four See Product Availability table below.	28 4', T5: 28 Watt	NOTE: See Technical Section for other ballast options.	U 120V-277V	CS2 Ceiling Spacer
MWN 10 ⁷ / ₈ " Narrow	8 8'		32 4', T8: 32, 30, 28 or 25 Watt	E Electronic Instant Start (Std.)	120 120V	EL Emergency Battery Pack
MWW 15 ⁷ / ₈ " Wide			54 4', T5HO: 54 or 51 Watt	3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start	347 347V	GLR Fast Blow Fuse
Extruded Wrap				EP Electronic T5 or T8, Programmed Start		NL Compact Twin Tube Fluorescent Night Light in G23 Base for 5W, 7W, 9W or GX23 Base for 13W. (120V or 277V; Lamp not included)
EWN 10 ⁷ / ₈ " Narrow				3EP 3-Lamp Electronic T5HO or T8, Programmed Start		SB3 Stem Mounting Bracket (Required for 3-Lamp units only)
EWW 15 ⁷ / ₈ " Wide				4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start		NYC NYC Compliant NYCU NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)

- S18** 18" Stem w/Canopy
- SS18** 18" 45° Swivel Stem w/Canopy

PRODUCT AVAILABILITY

SERIES	No. of lamps in cross section	No. Of lamps in fixture	Lamp Type	Lamp length	WIDTH	LENGTH	HEIGHT
MWN4/EWN4	2	2	28, 32, 54	4'	10 ⁷ / ₈ "	4'	4 ³ / ₈ "
MWN8/EWN8	2	4	28, 32, 54	4'	10 ⁷ / ₈ "	8'	4 ³ / ₈ "
MWW4/EWW4	2	2	28, 32, 54	4'	15 ⁷ / ₈ "	4'	4 ³ / ₈ "
	3	3	28, 32, 54	4'	15 ⁷ / ₈ "	4'	4 ³ / ₈ "
	4	4	28, 32, 54	4'	15 ⁷ / ₈ "	4'	4 ³ / ₈ "
MWW8/EWW8	2	4	28, 32, 54	4'	15 ⁷ / ₈ "	8'	4 ³ / ₈ "
	3	6	28, 32, 54	4'	15 ⁷ / ₈ "	8'	4 ³ / ₈ "
	4	8	28, 32, 54	4'	15 ⁷ / ₈ "	8'	4 ³ / ₈ "



Specification Grade Wraparound

WRAPS



FEATURES

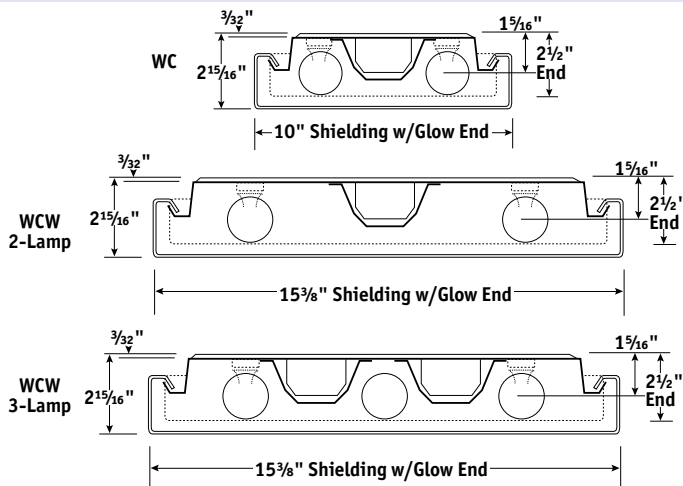
- Clear acrylic prismatic diffuser, flat bottom with vertical sides, and injection molded glow ends
- Two, three, or four-lamp cross sections
- Heavy gauge steel housing die embossed for maximum rigidity
- Heat sink embossments and levelling projections allow direct mounting of HPF fixtures on combustible low density cellulose fiberboard ceilings
- All metal parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- Hinges from either side
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
WC	10" Wide	2 2'	14 2', T5: 14 Watt	E Electronic Instant Start (Std.)	U 120V-277V	DR 50% DR High Impact Lens
WCW	15 3/8" Wide	2 Two	17 2', T8: 17 Watt	3E 3-Lamp Electronic T8, Instant Start	120 120V	EL Emergency Battery Pack
		3 Three	24 2', T5HO: 24 Watt	4E 4-Lamp Electronic T8, Instant Start	347 347V	GLR Fast Blow Fuse
		4 Four	28 4', T5: 28 Watt	24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start		NL Incandescent Night Light, 120V only
		See Product Availability table below.	32 4', T8: 32, 30, 28 or 25 Watt	EP Electronic T5 or T8, Programmed Start		PAF Paint After Fabrication
			54 4', T5HO: 54 Watt	3EP 3-Lamp Electronic T5HO or T8, Programmed Start		SB3 Stem Mounting Bracket (Required for 3-Lamp units only)
				4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start		NYC NYC Compliant
				24EP (1) 2-Lamp and (1) 4-Lamp Electronic T5 or T8, Programmed Start		NYCU NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)

- S18 18" Stem w/Canopy
- SS18 18" 45° Swivel Stem w/Canopy



PRODUCT AVAILABILITY

SERIES	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	LAMP LENGTH	WIDTH	LENGTH	HEIGHT
WC2	2	2	14, 17, 24	2'	10"	2'	2 15/16"
WC4	2	2	28, 32, 54	4'	10"	4'	2 15/16"
WC8	2	4	28, 32, 54	4'	10"	8'	2 15/16"
WCW2	2	2	14, 17, 24	2'	15 3/8"	2'	2 15/16"
	4	4	14, 17, 24	2'	15 3/8"	2'	2 15/16"
WCW4	2	2	28, 32, 54	4'	15 3/8"	4'	2 15/16"
	3	3	28, 32, 54	4'	15 3/8"	4'	2 15/16"
	4	4	28, 32, 54	4'	15 3/8"	4'	2 15/16"
WCW8	2	4	28, 32, 54	4'	15 3/8"	8'	2 15/16"
	3	6	28, 32, 54	4'	15 3/8"	8'	2 15/16"
	4	8	28, 32, 54	4'	15 3/8"	8'	2 15/16"

Low Profile Wraparound

FEATURES

- Clear acrylic prismatic diffuser with flat bottom and vertical sides
- Two, three, or four-lamp cross sections
- Hinges from either side
- White steel end plates with flush knockouts for continuous row mounting
- Heavy gauge steel housing die embossed for maximum rigidity
- Heat sink embossments and levelling projections allow direct mounting of HPF fixtures on combustible low density cellulose fiberboard ceilings
- All metal parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard



WRAPS

ORDERING INFORMATION

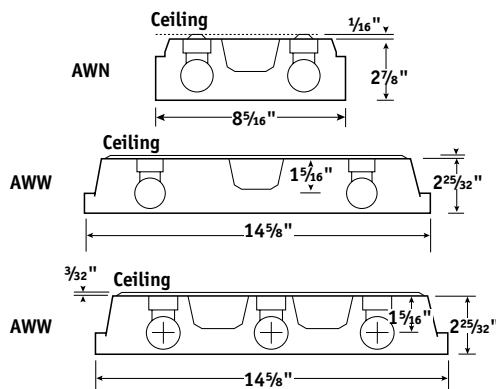
MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
AWN 8 ⁵ / ₁₆ " Wide	2 2'	2 Two	14 2', T5: 14 Watt	E Electronic Instant Start (Std.)	U 120V-277V	EL Emergency Battery Pack
AWW 14 ⁵ / ₈ " Wide	4 4'	3 Three	17 2', T8: 17 Watt	3E 3-Lamp Electronic T8, Instant Start	347 347V	GLR Fast Blow Fuse
	8 8'	4 Four	24 2', T5HO: 24 Watt	4E 4-Lamp Electronic T8, Instant Start		NL Incandescent Night Light
		See Product Availability table below.	28 4', T5: 28 Watt	24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start		PAF Paint After Fabrication
			32 4', T8: 32, 30, 28 or 25 Watt	EP Electronic T5 or T8, Programmed Start		SB3 Stem Mounting Bracket (Required for 3-Lamp units only)
			54 4', T5HO: 54 Watt	3EP 3-Lamp Electronic T5HO or T8, Programmed Start		NYC NYC Compliant
				4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start		NYCU NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)

- S18** 18" Stem w/Canopy
- SS18** 18" 45° Swivel Stem w/Canopy

PRODUCT AVAILABILITY

SERIES	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	LAMP LENGTH	WIDTH	LENGTH	HEIGHT
AWN2	2	2	14, 17, 24	2'	8 ⁵ / ₁₆ "	2'	2 ⁷ / ₈ "
AWN4	2	2	28, 32, 54	4'	8 ⁵ / ₁₆ "	4'	2 ⁷ / ₈ "
AWN8	2	4	28, 32, 54	4'	8 ⁵ / ₁₆ "	8'	2 ⁷ / ₈ "
AWW4	2	2	28, 32, 54	4'	14 ⁵ / ₈ "	4'	2 ²⁵ / ₃₂ "
	3	3	28, 32, 54	4'	14 ⁵ / ₈ "	4'	2 ²⁵ / ₃₂ "
	4	4	28, 32, 54	4'	14 ⁵ / ₈ "	4'	2 ²⁵ / ₃₂ "
AWW8	2	4	28, 32, 54	4'	14 ⁵ / ₈ "	8'	2 ²⁵ / ₃₂ "
	3	6	28, 32, 54	4'	14 ⁵ / ₈ "	8'	2 ²⁵ / ₃₂ "
	4	8	28, 32, 54	4'	14 ⁵ / ₈ "	8'	2 ²⁵ / ₃₂ "



Vandal Resistant Wraparound

WRAPS



FEATURES

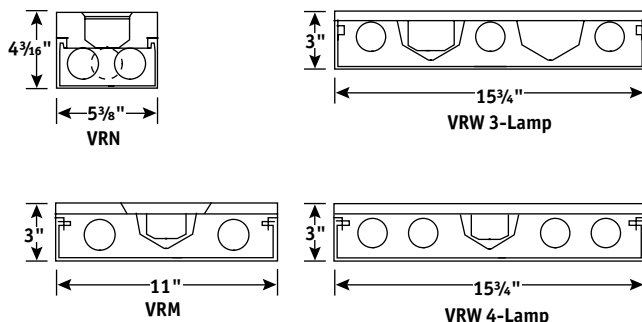
- Ideal for vandal-prone areas, such as schools, hallways, dormitories, restrooms, bus stops, and locker rooms
- Effective, secure illumination mounts to ceilings or walls
- Rugged, 16 gauge heavy duty steel housing
- Diffuser is UV stabilized .130" thick, one-piece, prismatic polycarbonate for high-impact protection
- Formed end cap welded to housing for additional strength
- Wireway extends below lamp to protect lamp for impact breakage
- White powder coat finish painted after fabrication
- For ceiling, wall, or pendant - individual or continuous row
- Six tamper-resistant screws protect against unauthorized entry
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

VR		4		32			
MODEL	WIDTH	SIZE	NO. OF LAMPS	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
VR Vandal Resistant Wraparound	N Narrow (5 3/8") M Medium (11") W Wide (15 3/4")	4 4'	1 One (VRN) 2 Two (VRN, VRM) 3 Three (VRW) 4 Four (VRW) <i>See Product Availability table below.</i>	32 4', T8: 32, 30, 28 or 25 Watt	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start	U 120V-277V 347 347V	NYC NYC Compliant NYCU NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)

- VRSCR** Tamper Resistant Screwdriver
- GLRK** Fast Blow Fuse Kit
- ELF** Bulk Emergency Battery Pack (Bulk shipped for field installable)
- S18** 18" Stem w/Canopy
- SS18** 18" 45° Swivel Stem w/Canopy



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4' VRN	1	32	5 3/8"	48 1/4"	4 3/16"
	2	32	5 3/8"	48 1/4"	4 3/16"
4' VRM	2	32	11"	48 1/4"	3"
4' VRW	3	32	15 3/4"	48 1/4"	3"
	4	32	15 3/4"	48 1/4"	3"

LHR NARROW

Narrow Fluorescent High Bay

INDUSTRIALS

FEATURES

- Extremely efficient fluorescent luminaire replaces HID in retail and industrial applications
- Open optics or optional white cross baffle softly diffuses light
- Excellent vertical footcandles
- Solid top or optional 15% uplight
- Rounded edges and corners for safe handling and installation
- UL listed 1598, cUL or CSA. Damp Location standard



ORDERING INFORMATION

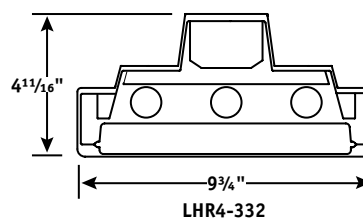
LHR						
MODEL	NO. OF LAMPS	REFLECTOR	UPLIGHT	VOLTAGE		
LHR Narrow Fluorescent High Bay	2 Two 3 Three See Product Availability table below.	M4R MIRO®-4 Specular, 95% Reflectance LS Specular Anodized Aluminum GW Gloss White Powder Coat	U 15% Uplight ST Solid Top	U 120V-277V 347 347V (H0 only) 480 480V (H0 only)		
SIZE	LAMP TYPE	BALLAST	OPTIONS			
4 48" 8 96"	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5H0: 54 or 51 Watt	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start 3EHL 3-Lamp Electronic T8, 1.2 Ballast Factor, High Light Output, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5H0 (N/A 347V) or T8, Programmed Start 24EP (1) 2-Lamp and (1) 4-Lamp Electronic T5H0 (N/A 347V or 480V) or T8, Programmed Start	F0841 41K 82CRI 32W T8 Lamps Installed F5841 41K 82CRI T5 or T5H0 Lamps Installed F3C5 3-Conductor 5' Feed Cord Wired to Fixture F3C10 3-Conductor 10' Feed Cord Wired to Fixture F3C15 3-Conductor 15' Feed Cord Wired to Fixture GLH5 5' Adjustable Cable Kit GLH10 10' Adjustable Cable Kit GLH15 15' Adjustable Cable Kit GLR Fast Blow Fuse LHRNWG Wire Guard for Narrow Body LHR OS1K Occupancy Sensor Kit, 120V-347V, One Relay ¹ WCB White Cross Baffle NYC NYC Compliant* NYCU NYC Compliant, Union Label*			

¹Use programmed start ballast. Not recommended for use with instant start.

*Note: 2-Lamp option only.

PRODUCT AVAILABILITY

MODEL	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
LHR4	2	2	28, 32, 54	9¾"	48½"	4¼"
	3	3	28, 32, 54	9¾"	48½"	4¼"
LHR8	2	2	28, 32, 54	9¾"	96½"	4¼"
	3	3	28, 32, 54	9¾"	96½"	4¼"



LHE

Efficient High Bay

INDUSTRIALS

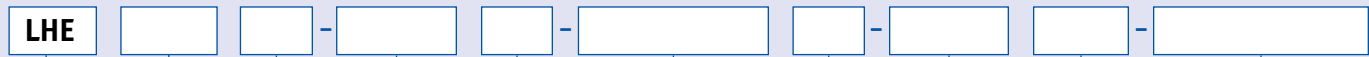


Shown with WCB option.

FEATURES

- T5HO high bay performance at an affordable price
- White cross baffle or prismatic acrylic lens options provide lamp shielding and enhanced aesthetics
- Wire guards or cages available for impact protection
- Rotary locking lampholders keep lamps secure
- Can be row mounted
- KOs standard on end caps
- Efficiency up to 95%
- Optional uplight, feed cords and plugs, or occupancy sensors to fit most applications
- Fast and flexible GLH adjustable cable option provides simplifies mounting in virtually any application, whether new construction or retrofit
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION



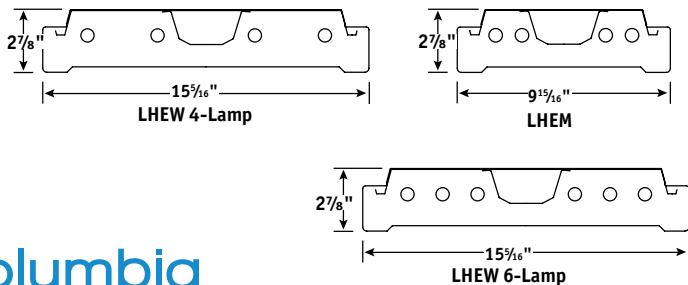
MODEL	SIZE	NO. OF LAMPS	SHIELDING	UPLIGHT	VOLTAGE
LHE Efficient High Bay	4 48" 8 96" (LHEM only)	2 Two (LHEM only) 4 Four 6 Six (LHEW only) See Product Availability table below.	Blank None WCB White Steel Cross Baffle* PA Prismatic Acrylic Wraparound Lens*	ST Solid Top (No uplight) U Uplight	U 120V-277V 347 347V (HO only) 480 480V (HO only)
OPTIONS					
F5830 30K 82CRI T5 or T5HO Lamps Installed F5835 35K 82CRI T5 or T5HO Lamps Installed F5841 41K 82CRI T5 or T5HO Lamps Installed F5850 50K 82CRI T5HO Lamps Installed C6TL15_ 6' Cord and Twist-Lock™ Plug 15A (Add Voltage: 1=120, 2=277) C6TL20_ 6' Cord and Twist-Lock™ Plug 20A (Add Voltage 1=120, 2=277) C6P15_ 6' Cord and Straight Blade Plug 15A (Add Voltage: 1=120, 2=277) EL Emergency Battery Pack F3C* 3-Conductor Feed Cord Wired to Fixture F4C* 4-Conductor Feed Cord Wired to Fixture GLR Fast Blow Fuse LHHB Universal Hanger Bracket LSR Specular Anodized Aluminum Insert (solid top only) M4R MIRO®-4 Specular 95% Reflectance Insert (solid top only) OS1K Occupancy Sensor Kit, 120V-347V, One Relay ¹ PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label					
BODY	LAMP TYPE	BALLAST			
M Medium Body, 9 ¹⁵ / ₁₆ " W Wide Body, 15 ¹ / ₁₆ "	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 or 51 Watt	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start 3EHL 3-Lamp Electronic T8, 1.2 Ballast Factor, High Light Output, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO (N/A 347V) (6-Lamp only) or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start 24EP (1) 2-Lamp and (1) 4-Lamp Electronic T5HO (N/A 347V or 480V) or T8, Programmed Start			
ACCESSORIES (ORDER SEPARATELY)					
GLH5 5' Adjustable Cable Kit* GLH10 10' Adjustable Cable Kit* GLH15 15' Adjustable Cable Kit* LHTF Fixture Safety Tether LHTWCB White Cross Baffle Safety Tether LHEMWG Wire Guard for LHEM (Order Two for LHEM8) LHEWWG Wire Guard for LHEW LHEMCG Cage Guard for LHEM (Order Two for LHEM8) LHEWCG Cage Guard for LHEW					

*N/A with wire guard. May be used with cage guard.

*Use with LHHB.

*Replace asterisk above with length in feet – 5', 10', or 15'.

¹Use programmed start ballast. Not recommended for use with instant start.



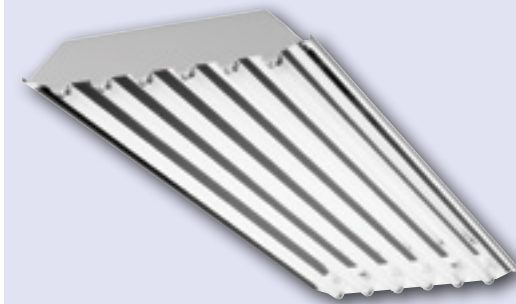
PRODUCT AVAILABILITY

MODEL	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
LHEM4	2	2	28,32, 54	9 ⁷ / ₈ "	48"	2 ⁷ / ₈ "
	4	4	28, 54	9 ⁷ / ₈ "	48"	2 ⁷ / ₈ "
LHEM8	2	4	28,32, 54	9 ⁷ / ₈ "	96"	2 ⁷ / ₈ "
	4	8	28, 54	9 ⁷ / ₈ "	96"	2 ⁷ / ₈ "
LHEW4	4	4	28, 32, 54	15 ¹ / ₁₆ "	48"	2 ⁷ / ₈ "
	6	6	28, 32, 54	15 ¹ / ₁₆ "	48"	2 ⁷ / ₈ "

Slim Body Linear High Bay

FEATURES

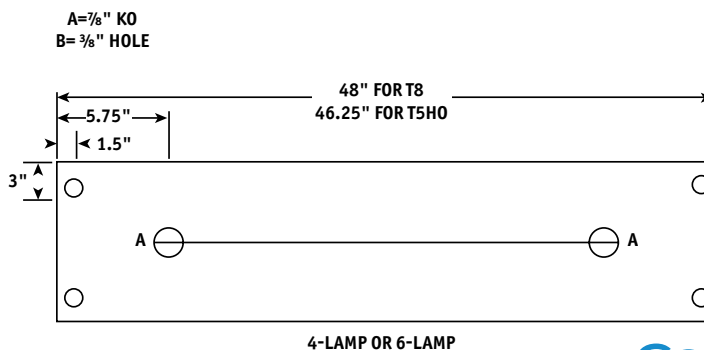
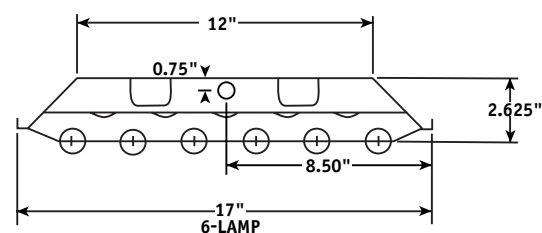
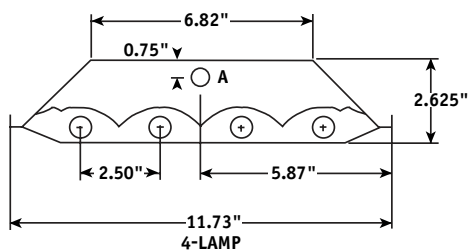
- Used in high and low bay, aisle and task lighting applications
- Ideal for mounting heights ranging 8 ft. to 40 ft.
- Rugged 20 gauge riveted full body steel housing
- 95% specular aluminum reflectors to precise control or finished white reflectors available for wide light distribution
- Tool-less ballast access for easy service
- V-hangers included for chain hanging



ORDERING INFORMATION

LHS	4					U		
MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	REFLECTOR	VOLTAGE	LAMPS INSTALLED			
LHS Slim Body Linear High Bay	4 4'	4 Four 6 Six	M4R Aluminum 95% Reflective, Specular Silver (Narrow Beam) GW Gloss White (Wide Beam)	U 120V-277V	T8 F0841 85CRI, 4100K F0850 85CRI, 5000K T5H0 F5841 85CRI, 4100K F5850 85CRI, 5000K			
ACCESSORIES (ORDER SEPARATELY)			LAMP TYPE	BALLAST	OPTIONS			
LHTG5 Y-Fit Toggle Hanger, 5' Adjustable, Pair	GLH5 5', Adjustable Cable Kit	OS1K Occupancy Sensor Kit, 120-347V, one relay*	32 4', T8: 32, 30, 28 or 25 Watt	T8	F3C5 3-Conductor Cord			
LHTG10 Y-Fit Toggle Hanger, 10' Adjustable, Pair	GLH10 10', Adjustable Cable Kit	OS2K Occupancy Sensor Kit, 120-347V, two relay*	54 4', T5H0: 54 or 51 Watt	4EHL (1) 4-Lamp Electronic T8 High Light Output, Instant Start	F4C5 4-Conductor Cord			
	GLH15 15', Adjustable Cable Kit			3EHL (2) 3-Lamp Electronic T8 High Light Output, Instant Start	C8TL15_ 8' Cord and Twist-Lock™ Plug 15A (Add Voltage: 1=120, 2=277)			
				4EPHL (1) 4-Lamp Electronic T8 High Light Output, Programmed Start	C8P151 8' Cord and Straight Blade Plug 15A, 120V			
				3EPHL (2) 3-Lamp Electronic T8 High Light Output, Programmed Start	EL Emergency Battery Pack, T8 1100-1200 Lumens, 1-Lamp or T5H0 1150 Lumens, 1-Lamp			
				T5H0	WG Cage Type Wire Guard			
				4EP (1) 4-Lamp Electronic T5H0, Programmed Start	NYC NYC Compliant			
				24EP (1) 4-Lamp and (1) 2-Lamp Electronic T5H0, Programmed Start	NYCU NYC Compliant, Union Label			

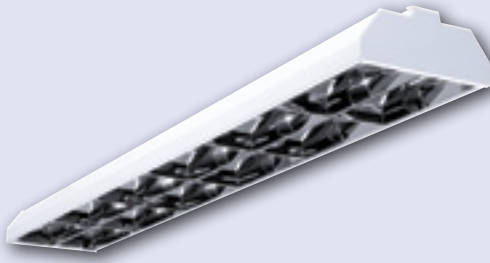
Use programmed start ballast. Not recommended for use with an instant start. For more occupancy/daylight harvesting sensor accessories contact your Columbia Lighting representative.



LHB

High-Performance Shielded High Bay

INDUSTRIALS



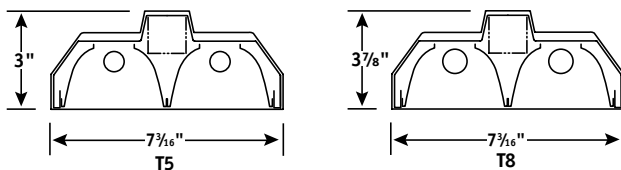
FEATURES

- Optimized to improve upon HID high and low bay fixtures in a wide variety of applications
- Employs and enhances T5 technology to its fullest advantage
- Ultra-high efficiency up to 98.7%
- Precision "Brio" T5-dedicated louvers employ accurate contours to drive light downward
- Enhanced aesthetics ideal for retail, offices, or lobbies
- Optional uplight
- Rotary locking lampholders keep lamps secure
- Asymmetric and double wall wash available for higher vertical footcandles
- Fast and flexible GLH adjustable cable system adapts to virtually any requirement, whether new construction or retrofit
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

LHB	2						
MODEL	NO. OF LAMPS	LOUVER FINISH	UPLIGHT	VOLTAGE	OPTIONS		
LHB High-Performance Shielded High Bay	2 Two See Product Availability table below.	M4R MIRO [®] -4 Specular, 95% Reflectance MA Matte Anodized Aluminum	ST Solid Top (No uplight) U Uplight 15%	U 120V-227V 347 347V	F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F5830 30K 82CRI T5 or T5HO Lamps Installed F5835 35K 82CRI T5 or T5HO Lamps Installed F5841 41K 82CRI T5 or T5HO Lamps Installed F5850 50K 82CRI T5HO Lamps Installed 1WW Asymmetric Wall Wash 2WW Double Wall Wash C6TL15 6' Cord and Twist-Lock™ Plug 15A (Add Voltage: 1=120, 2=277) C6TL20 6' Cord and Twist-Lock™ Plug 20A (Add Voltage: 1=120, 2=277) C6P15 6' Cord and Straight Blade Plug 15A (Add Voltage: 1=120, 2=277) EL Emergency Battery Pack F3C* 3-Conductor Feed Cord Wired to Fixture F4C* 4-Conductor Feed Cord Wired to Fixture GLR Fast Blow Fuse OS1K Occupancy Sensor Kit, 120V-347V, One Relay ¹ NYC NYC Compliant NYCU NYC Compliant, Union Label		
SIZE	LAMP TYPE	CELL CONFIGURATION	BALLAST				
4 48" (Nominal) 8 96" (Nominal)	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 Watt	26 2 Cells Wide by 6 Cells Long (4') 212 2 Cells Wide by 12 Cells Long (8')	E Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EHL Electronic T8, High Light Output, Instant Start EP Electronic T5 or T8, Programmed Start				
ACCESSORIES (ORDER SEPARATELY)							
LHTF Fixture Safety Tether GLH5 5' Adjustable Cable Kit GLH10 10' Adjustable Cable Kit GLH15 15' Adjustable Cable Kit							

¹Use programmed start ballast. Not recommended for use with instant start.



PRODUCT AVAILABILITY

MODEL	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
LHB4	2	2	28, 54	7 1/16"	46 5/8"	3"
	2	2	32	7 1/16"	48 3/4"	3 7/8"
LHB8	2	4	28, 54	7 1/16"	93 3/16"	3"
	2	4	32	7 1/16"	96 3/4"	3 7/8"

Note: Not intended for surface mounting. Provide a minimum of 3" clearance.

Premium Turret Industrial

FEATURES

- Specification grade, heavy duty, one-piece steel housing
- Easy installation. Fully assembled. Ships in one carton
- Optional deep "V" reflector provides 35° crosswise shielding with T8 lamps and 39° shielding with T12 lamps
- Available with 10% uplight or solid top for 100% downlight
- Optional full end plates
- Textile mill option eliminates upturned edges on the reflector to inhibit the accumulation of lint and dust
- White powder coat finish painted after fabrication
- Embossed ribs and aperture edges provide superior rigidity
- Heavy gauge metal spring loaded turret style sockets provide excellent lamp retention
- UL listed 1598, cUL or CSA. Damp Location standard



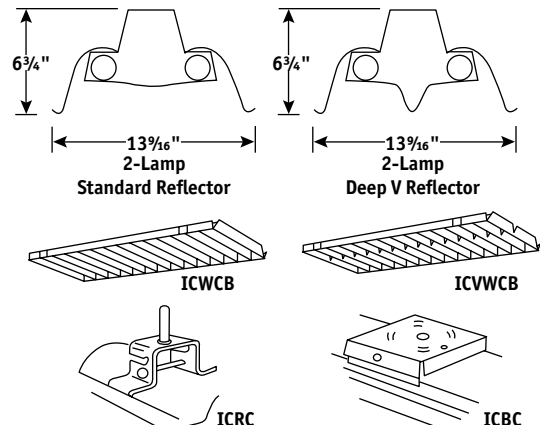
ORDERING INFORMATION

IC	-	-	-	-	-	-	-
MODEL		NO. OF LAMPS IN CROSS SECTION		REFLECTOR TYPE		VOLTAGE	OPTIONS
IC Premium Turret Industrial		<ul style="list-style-type: none"> 2 Two 3 Three 4 Four See Product Availability table below.		<ul style="list-style-type: none"> U Apertured 10% Uplight Reflector ST Solid Top 0% Uplight Reflector¹ VR Deep V Apertured Uplight Reflector (2-Lamp only) TU 10% Uplight Textile Reflector TST Solid Top Textile Reflector¹ ¹ Not recommended with HO units.		<ul style="list-style-type: none"> U 120V-277V 347 347V 	<ul style="list-style-type: none"> BC1 Branch Circuit Wiring Single Circuit (For more branch circuit wiring options see page 113) ICFC Full End Caps ICNC No End Caps (Row mounting) EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse RIF Radio Interference Filter NYC NYC Compliant NYCU NYC Compliant, Union Label
	SIZE		LAMP TYPE		BALLAST		
	<ul style="list-style-type: none"> 4 4' 8 8' 		<ul style="list-style-type: none"> 32 4', T8: 32, 30, 28 or 25 Watt 48HO 4', T12: 60 Watt 96 8', T12: 75 or 60 Watt 96T8 8', T8: 59 Watt 96HO 8', T12: 110 or 95 Watt 96T8HO 8', T8: 86 Watt 		NOTE: See Technical Section for other ballast options. <ul style="list-style-type: none"> E Electronic, Instant Start 3E 3-Lamp Electronic T8 (32W), Instant Start 4E 4-Lamp Electronic T8 (32W), Instant Start EP Electronic, Programmed Start LE Energy Saving Magnetic T12 (1-Lamp 48HO only) 		
							ACCESSORIES (ORDER SEPARATELY)
							<ul style="list-style-type: none"> ICWG4 4' Wire Guard ICFSA12 Steel Door with A12 Lens ICWCB White Cross Baffle for Std. Reflector ICVWCB White Cross Baffle for "V" Reflector ICRC Rod Clamp Hanger ICBC Box/Conduit Clamp Hanger ICCN Channel Connector ICHCH Chain Hanger Assembly ICAC Reflector Aligner OS1K Occupancy Sensor Kit, 120/277/347V, One Relay¹

¹Use programmed start ballast. Not recommended for use with instant start. For more occupancy/daylight harvesting sensor accessories see page 101.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	2	2	32	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
	2	2	48HO	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
	3	3	32	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
	4	4	32	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
4' (Deep V Reflector)	2	2	32	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
	2	2	48HO	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
8'	2	4	32	13 ¹ / ₁₆ "	98 ¹ / ₄ "	6 ³ / ₄ "
	2	2	96, 96T8, 96HO, 96T8HO	13 ¹ / ₁₆ "	98 ¹ / ₄ "	6 ³ / ₄ "
	3	6	32	13 ¹ / ₁₆ "	98 ¹ / ₄ "	6 ³ / ₄ "
	3	3	96, 96T8, 96HO, 96T8HO	13 ¹ / ₁₆ "	98 ¹ / ₄ "	6 ³ / ₄ "
8' (Deep V Reflector)	4	4	96, 96T8, 96HO, 96T8HO	13 ¹ / ₁₆ "	98 ¹ / ₄ "	6 ³ / ₄ "
	2	4	32	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
	2	2	96, 96T8, 96HO, 96T8HO	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "
	2	2	96, 96T8, 96HO, 96T8HO	13 ¹ / ₁₆ "	49 ¹ / ₈ "	6 ³ / ₄ "





FEATURES

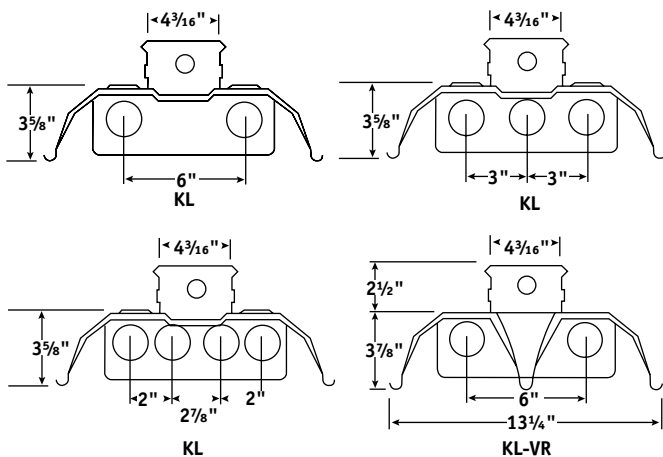
- Heavy gauge steel housing with longitudinal ribs
- Die embossed reflector with ribs
- Wide variety of reflectors available including specular, deep V, and solid top
- Standard reflector has smooth extruded apertures with 15% uplight
- Spring loaded turret lampholders
- Individual or continuous row mounting
- All parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

KL					
MODEL KL Premium Industrial	NO. OF LAMPS 2 Two 3 Three 4 Four See Product Availability table below.	REFLECTOR TYPE U Apertured Uplight Reflector (Std.) SLR Apertured Specular (95% Reflector) Finish SRST ¹ Specular Reflector, Solid Top ST ¹ Solid Top VR Deep V Apertured Uplight Reflector (2 lamps only)*	VOLTAGE U 120V-277V 347 347V	OPTIONS BC1 Branch Circuit Wiring Single Circuit EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label	
SIZE	LAMP TYPE	BALLAST			
4 4'	28 4', T5: 28 Watt	E Electronic, Instant Start			
8 8'	32 4', T8: 32, 30, 28 or 25 Watt	3E 3-Lamp Electronic T8 (32W), Instant Start			
16 16' (Two housing)	48HO 4', T12: 60 Watt	4E 4-Lamp Electronic T8 (32W), Instant Start			
	54 4', T5HO: 54 or 51 Watt	EP Electronic, Programmed Start			
	96 8', T12: 75 or 60 Watt	24E (1) 2-Lamp and (1) 4-Lamp Electronic T8 (32W), Instant Start			
	96T8 8', T8: 59 Watt	3EP 3-Lamp Electronic T5HO or T8, Programmed Start			
	96HO 8', T12: 110 or 95 Watt	4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start			
96T8HO 8', T8: 86 Watt		Instant Start ballasts available for 32, 96, and 96T8. Programmed Start ballasts available for all except 96 and 96T8.			

ACCESSORIES (ORDER SEPARATELY)	
S18	18" Stem, 8° Swivel Stem and Canopy
SS18	18", 45° Swivel Stem and Canopy
KHC	24" Chain Hanger Assembly
KLEC	Full Depth Endcap (pair)
OS1K	Occupancy Sensor Kit, 120V-347V, One Relay ¹

¹Use programmed start ballast. Not recommended for use with instant start.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	2	2	28, 32, 54	13 3/8"	49 7/16"	6 1/8"*
	2	2	48HO	13 3/8"	48"	6 1/8"*
	3	3	28, 32, 54	13 3/8"	49 7/16"	6 1/8"
	4	4	28, 32, 54	13 3/8"	49 7/16"	6 1/8"
8'	2	4	28, 32, 54	13 3/8"	98 13/16"	6 1/8"*
	2	2	96T8, 96HO, 96T8HO	13 3/8"	96"	6 1/8"*
	3	6	28, 32, 54	13 3/8"	98 13/16"	6 1/8"
	3	3	59, 96HO, 96T8HO	13 3/8"	96"	6 1/8"
	4	4	96T8	13 3/8"	96"	6 1/8"
16' (Two housings)	2	8	28, 32, 54	13 3/8"	197 7/8"	6 1/8"*
	2	4	96T8, 96HO, 96T8HO	13 3/8"	192"	6 1/8"*
	3	12	28, 32, 54	13 3/8"	197 7/8"	6 1/8"
	3	6	96T8, 96HO, 96T8HO	13 3/8"	192"	6 1/8"
	4	8	28, 32, 96T8	13 3/8"	192"	6 1/8"
	4	16	28, 32, 54	13 3/8"	197 7/8"	6 1/8"

*VR reflector option increases fixture depth to 6 3/8".

FEATURES

- Die formed steel housing with knockouts for stems or chain hangers
- Die embossed reflector with ribs
- Most models available with 5% uplight
- Individual or continuous row mounting
- Channel ends double as joiners
- All parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard

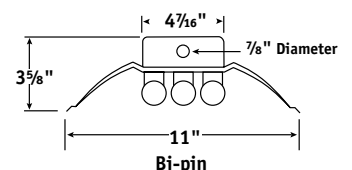
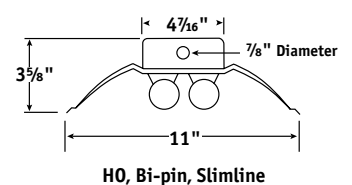
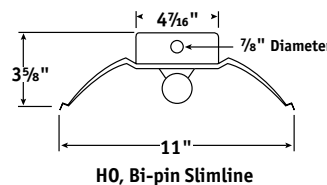


CSR	-	-	-	-	-	-
MODEL CSR Industrial	NO. OF LAMPS 1 One 2 Two 3 Three (T8 or T5) <small>See Product Availability table below.</small>	REFLECTOR TYPE ST Solid Top Reflector (Std.) U Apertured Reflector for 5% Uplight (Standard) (Solid Reflector not recommended with H0 units) SLR Apertured Reflector with 95% Reflector Specular Silver Finish	VOLTAGE U 120V-277V 347 347V	OPTIONS BC1 Branch Circuit Wiring Single Circuit EL Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label		
SIZE 4 4' 8 8' 16 16' (Two housings)	LAMP TYPE 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 48HO 4', T12: 60 Watt 54 4', T5HO: 54 or 51 Watt 96 8', T12: 75 or 60 Watt 96T8 8', T8: 59 Watt 96HO 8', T12: 110 or 95 Watt 96T8HO 8', T8: 86 Watt	BALLAST NOTE: See Technical Section for other ballast options. E Electronic, Instant Start 3E 3-Lamp Electronic T8 (32W), Instant Start 4E 4-Lamp Electronic T8 (32W), Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8 (32W), Instant Start EP Electronic, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start Instant Start ballasts available for 32, 96, and 96T8. Programmed Start ballasts available for all except 96 and 96T8.	ACCESSORIES (ORDER SEPARATELY) CSRWG Wireguard CSHC Chain Hanger (pair) CSTH Slide Tong Hanger (pair) OS1K Occupancy Sensor Kit, 120/277/347V, One Relay ¹			

¹Use programmed start ballast. Not recommended for use with instant start. For more occupancy/daylight harvesting sensor accessories see page 101.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	2	2	28, 32	11"	48"	3 5/8"
	2	2	48HO, 54	11"	48"	4 1/2"
	3	3	28, 32, 54	11"	48"	3 5/8"
8'	2	4	28, 32, 54	11"	96"	3 5/8"
	2	2	96T8	11"	96"	3 5/8"
	2	2	96HO, 96T8HO	11"	96"	4 1/2"
	3	6	28, 32	11"	96"	3 5/8"
16' (Two housings)	2	8	28, 32, 54	11"	192"	3 5/8"
	2	4	28, 54, 96T8	11"	192"	3 5/8"
	2	4	54, 96HO, 96T8HO	11"	192"	4 1/2"



K

Heavy Duty Channel

STRIPLIGHTS

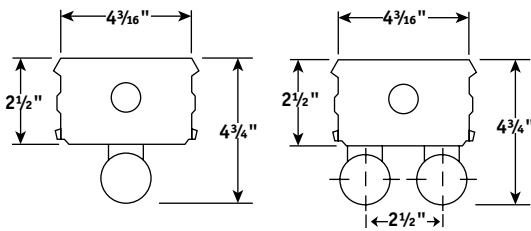


FEATURES

- Steel housing with longitudinal ribs for extra strength
- Ballast cover retained by ¼ turn fasteners
- Individual or row mounting, surface, or suspended
- All metal parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

K						
MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	BALLAST	VOLTAGE	OPTIONS	
K Heavy Duty Channel	4 4' 8 8' 16 16' (Two housings)	1 One 2 Two See Product Availability table below.	E Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5, T8, or T12 (96HO only), Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start	U 120V-277V 347 347V	BC1 Branch Circuit Wiring, Single Circuit (For more branch circuit wiring options see page 113) UN Full Height End Channels GLR Fast Blow Fuse EL Emergency Battery Pack PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label	
		LAMP TYPE			ACCESSORIES (ORDER SEPARATELY)	
		28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 48HO 4', T12: 60 Watt 54 4', T5HO: 54 or 51 Watt 96T8 8', T8: 59 Watt 96HO 8', T12: 110 or 95 Watt 96T8HO 8', T8: 86 Watt			CSWG4 4' Wire Guard (w/o reflector) CSR4 4' Symmetric Reflector CSRA4 4' Asymmetric Reflector S18 18" Stem, 8° Swivel Stem and Canopy SS18 18", 45° Swivel Stem and Canopy KHC 24" Chain Hanger Assembly KTH Tong Hanger (Pair)	



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. of LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	1	1	28, 32, 48HO, 54	4 3/16"	48"	2 1/2"
	2	2	28, 32, 48HO, 54	4 3/16"	48"	2 1/2"
8'	1	1	28, 54, 96T8, 96HO, 96T8HO	4 3/16"	96"	2 1/2"
	2	2	28, 54, 96T8, 96HO, 96T8HO	4 3/16"	96"	2 1/2"
16' (Two housings)	1	2	28, 54, 96T8, 96HO, 96T8HO	4 3/16"	192"	2 1/2"
	2	4	28, 54, 96T8, 96HO, 96T8HO	4 3/16"	192"	2 1/2"

Straight-Sided Utility Channel

FEATURES

- Die formed steel housing with heat sink embossments for cooler running ballasts
- Ballast cover retained by ¼ turn fasteners
- Individual or row mounting, surface or suspended
- Channel ends double as joiners
- All metal parts are treated with a five stage phosphate bonding process and finished with baked white enamel
- UL listed 1598, cUL or CSA. Damp Location standard



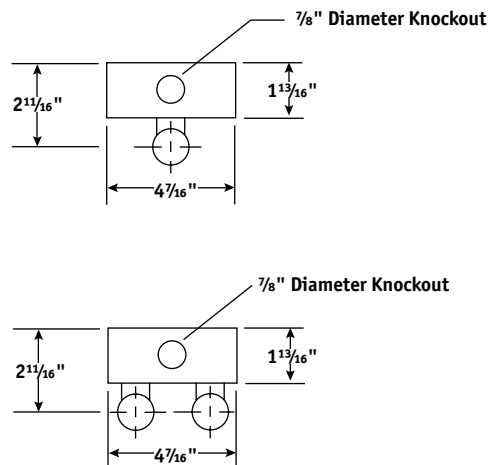
STRIPLIGHTS

ORDERING INFORMATION

MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
CS Straight-Sided Utility Channel	2 2' 3 3' 4 4' 6 6' 8 8' 16 16' (Two housings)	1 One 2 Two 3 Three See Product Availability table below.	14 2', T5: 14 Watt 17 2', T8: 17 Watt 21 3', T5: 21 Watt 24 2', T5HO: 24 Watt 25 3', T8: 25 Watt 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 39 3', T5HO: 39 Watt 54 4', T5HO: 54 or 51 Watt 96 8', T12: 75 or 60 Watt 96T8 8', T8: 59 Watt	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5 or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start	U 120V-277V 347 347V	BC1 Branch Circuit Wiring, Single Circuit (For more branch circuit wiring options see page 113) GLR Fast Blow Fuse EL Emergency Battery Pack PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label
ACCESSORIES (ORDER SEPARATELY)						
						CSWG3 3' Wire Guard CSWG4 4' Wire Guard CSR4 4' Symmetric Reflector CSRA4 4' Asymmetric Reflector CSRU4 4' Symmetric Reflector 5% Uplight S18 18" Stem, 8° Swivel Stem and Canopy SS18 18", 45° Swivel Stem, and Canopy CSHC Chain Hanger Assembly

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
2'	1	1	14, 17, 24	4 ⁷ / ₁₆ "	24"	1 ¹³ / ₁₆ "
	2	2	14, 17, 24	4 ⁷ / ₁₆ "	24"	1 ¹³ / ₁₆ "
	3	3	17	4 ⁷ / ₁₆ "	24"	1 ¹³ / ₁₆ "
3'	1	1	21, 25, 39	4 ⁷ / ₁₆ "	36"	1 ¹³ / ₁₆ "
	2	2	21, 25, 39	4 ⁷ / ₁₆ "	36"	1 ¹³ / ₁₆ "
	3	3	25	4 ⁷ / ₁₆ "	36"	1 ¹³ / ₁₆ "
4'	1	1	28, 32, 54	4 ⁷ / ₁₆ "	48"	1 ¹³ / ₁₆ "
	2	2	28, 32, 54	4 ⁷ / ₁₆ "	48"	1 ¹³ / ₁₆ "
	3	3	28, 32, 54	4 ⁷ / ₁₆ "	48"	1 ¹³ / ₁₆ "
6'	1	1	21, 25, 39	4 ⁷ / ₁₆ "	72"	1 ¹³ / ₁₆ "
	2	2	21, 25, 39	4 ⁷ / ₁₆ "	72"	1 ¹³ / ₁₆ "
	3	6	21, 25, 39	4 ⁷ / ₁₆ "	72"	1 ¹³ / ₁₆ "
8'	1	2	28, 32, 54	4 ⁷ / ₁₆ "	96"	1 ¹³ / ₁₆ "
	1	1	54, 96T8	4 ⁷ / ₁₆ "	96"	1 ¹³ / ₁₆ "
	2	4	28, 32, 54	4 ⁷ / ₁₆ "	96"	1 ¹³ / ₁₆ "
	2	2	54, 96T8	4 ⁷ / ₁₆ "	96"	1 ¹³ / ₁₆ "
	2	2	28, 32	4 ⁷ / ₁₆ "	96"	1 ¹³ / ₁₆ "
	3	6	28, 32	4 ⁷ / ₁₆ "	96"	1 ¹³ / ₁₆ "
16'	1	4	28, 32, 54	4 ⁷ / ₁₆ "	192"	1 ¹³ / ₁₆ "
	1	2	54, 96T8	4 ⁷ / ₁₆ "	192"	1 ¹³ / ₁₆ "
	2	8	28, 32, 54	4 ⁷ / ₁₆ "	192"	1 ¹³ / ₁₆ "
	2	4	54, 96T8	4 ⁷ / ₁₆ "	192"	1 ¹³ / ₁₆ "



SS

Staggered Strip

STRIPLIGHTS



FEATURES

- Die formed steel channel
- Flexible field adjustment for easy installation
- Offset channel accepts adjoining fixtures
- Three inch overlap provides uniform illumination
- Available with one or two lamps
- Symmetric and asymmetric reflectors available
- UL listed 1598, cUL or CSA. Damp Location standard

ORDERING INFORMATION

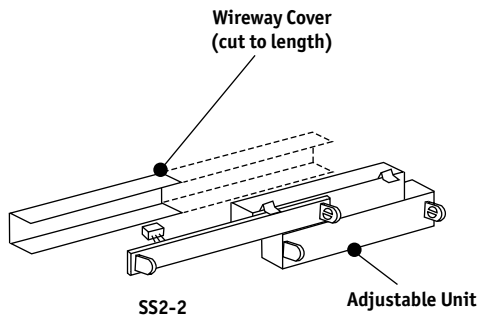
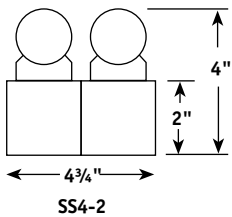
SS	-			-		-	
MODEL	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	REFLECTOR TYPE	VOLTAGE	OPTIONS		
SS Staggered Strip (Individual units)	1 One 2 Two See Product Availability table below.	17 2', T8: 17 Watt 25 3', T8: 25 Watt 32 4', T8: 32, 30, 28 or 25 Watt	Blank No Reflector SYM Symmetric Reflector ASYM Asymmetric Reflector Specify reflector on fixture and order desired reflector as accessory.	U 120V-277V 347 347V	ADJ Adjustable 1-Lamp 4' or 2-Lamp 2' Only BC1 Branch Circuit Wiring, Single Circuit (For more branch circuit wiring options see page 113) EL Emergency Battery Pack GLR Fast Blow Fuse LR Left/Right Switching PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label		

SIZE	
1-Lamp Length	2-Lamp Length
2 24"	2 27"
3 36"	3 39"
4 48"	4 51"
6 69"	6 75"
8 93"	8 99"

For rows, contact your local Columbia Lighting representative.

BALLAST
NOTE: See Technical Section for other ballast options.
E Electronic T8, Instant Start
3E 3-Lamp Electronic T8, Instant Start
4E 4-Lamp Electronic T8, Instant Start
EP Electronic T5 or T8, Programmed Start
3EP 3-Lamp Electronic T5 or T8, Programmed Start
4EP 4-Lamp Electronic T5HO (N/A 247V) or T8, Programmed Start

REFLECTOR ACCESSORIES (ORDER SEPARATELY)
SSR Symmetric Reflector (2 pieces)
SSRA Asymmetric Reflector (1 piece)
SSRAK Asymmetric Kicker Reflector (1 piece)
SSRD Symmetric Deep Reflector (2 pieces)
SSRDA Asymmetric Deep Reflector (1 piece)



PRODUCT AVAILABILITY

Size	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	Lamp Type	Width	Length	Height
2'	1	1	14, 17, 24	4 3/4"	24"	2"
	2	2	14, 17, 24	4 3/4"	27"	2"
3'	1	1	21, 25, 39	4 3/4"	36"	2"
	2	2	21, 25, 39	4 3/4"	39"	2"
4'	1	1	28, 32, 54	4 3/4"	48"	2"
	2	2	28, 32, 54	4 3/4"	51"	2"
6'	1	2	21, 25, 39	4 3/4"	69"	2"
	2	4	21, 25, 39	4 3/4"	75"	2"
8'	1	2	28, 32, 54	4 3/4"	93"	2"
	2	4	28, 32, 54	4 3/4"	99"	2"

4' adjustable unit is 24" telescoping housing wit 48" lamp.
2' adjustable unit is 27" telescoping housing wit 24" lamp.

Enclosed and Gasketed Fiberglass Industrial

FEATURES

- Non-metallic fiberglass housing with waterproof 1/2" threaded hubs
- Fully gasketed
- Wet location standard
- Molded ABS thermoplastic latches
- One piece, impact resistant acrylic diffuser with smooth surface
- All metal parts are treated with a five stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA, Wet Location Standard



EXTREME ENVIRONMENT

ORDERING INFORMATION

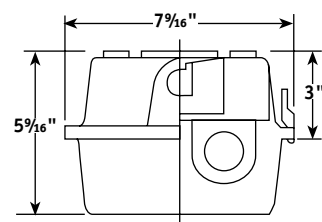
LUN							
MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS	
LUN Enclosed and Gasketed Fiberglass Industrial	2 2'	1 One	17 2', T8: 17 Watt	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP Electronic, Programmed Start 3EP 3-Lamp Electronic, Programmed Start 4EP 4-Lamp Electronic, Programmed Start 24EP (1) 2-Lamp and (1) 4-Lamp Electronic, Programmed Start	U 120V-277V 347 347V	DR 50% DR Acrylic Lens	
	4 4'	2 Two	28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 48HO 4', T12HO: 60 Watt ¹ 48T8HO 4', T8HO: 44 Watt 54 4', T5HO: 54 Watt 96 8', T12: 75 or 60 Watt 96T8 8', T8: 59 Watt 96HO 8', T12HO: 110 or 95 Watt ¹ 96T8HO 8', T8HO: 86 Watt			GLR Fast Blow Fuse PP Clear Prismatic Polycarbonate Lens SSL Stainless Steel Latches SSLTP Stainless Steel Tamper Resistant Latches TP Tamper Resistant Latches NYC NYC Compliant NYCU NYC Compliant, Union Label	
	8 8'	3 Three				Note: Contact your local Columbia Lighting representative for a list of available battery packs.	
		See Product Availability table below.					
						ACCESSORIES (ORDER SEPARATELY)	
						HUBK Stem Hanging Kit LUNHK Hanging Kit PEBU End Bracket Universal Surface Mount Kit	

¹High Output units should not be surface mounted or mounted in areas with warm ambient temperatures.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
2'	1	1	17	7 ⁹ / ₁₆ "	25 ¹³ / ₁₆ "	6 ¹ / ₈ "
	2	2	17	7 ⁹ / ₁₆ "	25 ¹³ / ₁₆ "	6 ¹ / ₈ "
4'	1	1	28, 32, 54	7 ⁹ / ₁₆ "	49 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
	2	2	28, 32, 48HO, 48T8HO, 54	7 ⁹ / ₁₆ "	49 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
	3*	3	32	7 ⁹ / ₁₆ "	49 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
8'	1	2	28, 32, 54	7 ⁹ / ₁₆ "	97 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
	1	1	96HO	7 ⁹ / ₁₆ "	97 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
	2	4	28, 32, 54	7 ⁹ / ₁₆ "	97 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
	2	2	96, 96T8, 96HO, 96T8HO	7 ⁹ / ₁₆ "	97 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "
	3*	6	32	7 ⁹ / ₁₆ "	97 ¹³ / ₁₆ "	5 ⁹ / ₁₆ "

*3-Lamp ballast required.

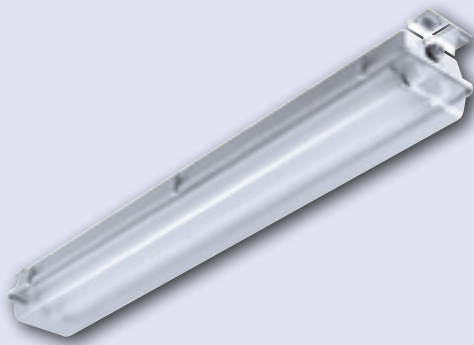


Wet location in traditional (lens down) mounting position only.

FNPV

Performer Series, Severe Environment

EXTREME ENVIRONMENT

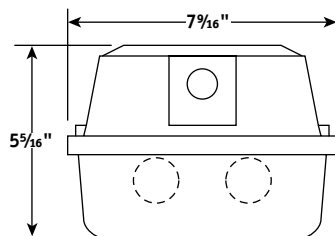


FEATURES

- Wet location certified for ceiling and wall mount
- Nylon or stainless steel latches available with tamper resistant screws
- For use in wet locations where moisture and washdown are prevalent
- 25°C ambient listed
- For use in outdoor, hosedown, corrosive location, and high ambient conditions
- NSF listed
- Accessible drop-down ballast tray
- UL 1598 wet location listed
- Listed as electrical enclosure for thru-branch wiring
- Conduit hubs available in die-cast aluminum or 316 stainless steel
- Mounting accessories in stainless or galvanized steel

ORDERING INFORMATION

FNPV	2					2H	
MODEL FNPV Performer Series, Severe Environment	NO. OF LAMPS IN CROSS SECTION 2 Two	LENS Blank Acrylic Crepe, 25% DR DR Acrylic Crepe, 100% DR CA Clear Acrylic, 25% DR OA Opal Acrylic, 25%DR PP Clear Prismatic Polycarbonate ¹		VOLTAGE U 120V-277V 347 347V (HO only) 220 220V ⁴ 220/50 220V, 50 HZ ³ 240/50 240V, 50 HZ ³		ENTRIES 2H (2) ½" Aluminum Hubs	OPTIONS GLR Fast Blow Fuse MLID Marine Listed, Indoor Drip Proof NFS National Sanitation Foundation Listed SSL Stainless Steel Latches SSLTP Stainless Steel Tamper Resistant Latches TP Tamper Resistant Latches NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE 2 2' 4 4' 8 8'	LAMP TYPE 14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 48T8HO 4', T8HO: 44 Watt 96T8 8', T8: 59 Watt 96T8HO 8', T8HO: 86 Watt		BALLAST² NOTE: See Technical Section for other ballast options. E (1 or 2) 2-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP (1 or 2) 2-Lamp Electronic T5 or T8, Programmed Start 4EP 4-Lamp Electronic, Programmed Start		ACCESSORIES³ (ORDER SEPARATELY) PTBS Top Bracket Surface Mount, 2 Per Kit, 304 Stainless PTBS3 Top Bracket Surface Mount, 3 Per Kit, 304 Stainless (8' units only) PTBA Top Bracket Wall/Angle Kit, 2 Per Kit, 304 Stainless PTBA3 Top Bracket Wall/Angle Kit, 3 Per Kit, 304 Stainless (8' units only) PEBUHSMS End Bracket Universal Surface Mount Kit for 2H Hub option TPSD Tamper Resistant Screwdriver		
¹ Wet location ceiling mount only (no IP65). ² Ballasts may not be available in all combinations of lamp/voltage/starting temp/THD shown above. ³ Fusing not available.							



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
2'	2	2	14, 17, 24	6 5/8"	25 15/16"	5"
4'	2	2	28, 32, 48T8HO	7 9/16"	49 13/16"	5 5/16"
8'	2	2	96T8, 96T8HO	7 9/16"	97 13/16"	5 3/8"
	2	4	28, 32, 48T8HO	7 9/16"	97 13/16"	5 3/8"

Enclosed and Gasketed Aluminum Industrial

FEATURES

- Aluminum housing for superior heat dissipation
- Fully gasketed
- Injection molded PVC ends
- Polypropylene latches
- One piece, impact resistant acrylic diffuser with smooth surface
- All parts are treated with a five-stage phosphate bonding process and finished with a baked white enamel
- UL listed 1598, cUL or CSA. Damp Location Standard. Wet Location option



EXTREME ENVIRONMENT

ORDERING INFORMATION

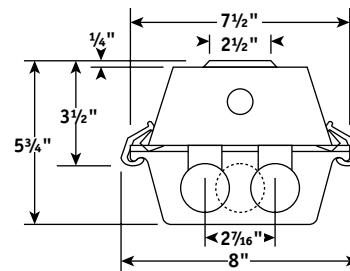
MODEL	SIZE	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
LU Enclosed and Gasketed Aluminum Industrial	4 4' 8 8'	1 One 2 Two <i>See Product Availability table below.</i>	32 4', T8: 32, 30, 28 or 25 Watt 48HO 4', T12: 60 Watt ¹ 48T8HO 4', T8: 44 Watts ¹ 96 8', T12: 75 or 60 Watt 96T8 8', T8: 59 Watt 96HO 8', T12: 110 or 95 Watt ¹ 96T8HO 8', T8: 86 Watt ¹	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start EP Electronic T8 and T12, Programmed Start LE Energy Saving Magnetic T12 (1-Lamp 48HO only, specify voltage)	U 120V-277V 120 120V 277 277V 347 347V	DR 100% DR Acrylic Lens EL Emergency Battery Pack (N/A with Wet Location) GLR Fast Blow Fuse WL Wet Location* NYC NYC Compliant NYCU NYC Compliant, Union Label <i>*Wet location in traditional (lens down) mounting position only.</i>

ACCESSORIES (ORDER SEPARATELY)

- HUBK** Stem Hanging Kit
- SSHK** Stainless Steel Hanging Kit (Chain not included)
- PEBU** End Bracket Universal Surface Mount Kit

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	1	1	32, 48HO, 48T8HO	8"	50 1/4"	5 3/4"
	2	2	32, 48HO, 48T8HO	8"	50 1/4"	5 3/4"
8'	1	2	32, 48HO, 48T8HO	8"	98 1/4"	5 3/4"
	1	1	96, 96T8, 96HO, 96T8HO	8"	98 1/4"	5 3/4"
	2	4	32, 48HO, 48T8HO	8"	98 1/4"	5 3/4"
	2	2	96, 96T8, 96HO, 96T8HO	8"	98 1/4"	5 3/4"



Steel or Aluminum All Weather Industrial

EXTREME ENVIRONMENT



FEATURES

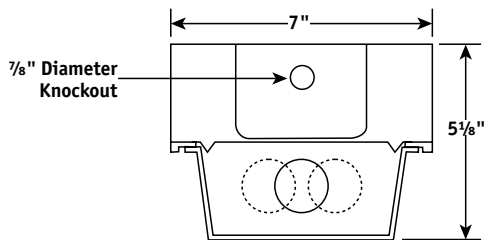
- Choice of 20 gauge steel or .040" thick aluminum housing
- Steel is damp location, aluminum is damp or wet location
- Lens is enclosed in extruded aluminum frame
- One piece extruded prismatic high impact lens, smooth exterior
- Thick PVC gasket is recessed into fixture body
- Shielding secured with steel latches and full length hinge
- All metal parts have a high reflectance outdoor baked white enamel finish
- Ceiling mount only
- UL listed 1598, cUL or CSA Damp Location standard, Wet Location option for 47A

ORDERING INFORMATION

MODEL	NO. OF LAMPS IN CROSS SECTION	BALLAST	VOLTAGE	LENS	OPTIONS
47A Aluminum Housing	1 One	NOTE: See Technical Section for other ballast options.	U 120V-277V	DR12 Pat #12 High Impact (Standard)	EL Factory Installed Damp Label Battery Pack (N/A wet label units)
47S Steel Housing	2 Two	E Electronic T8, Instant Start	347 347V	CPP Clear Prismatic Polycarbonate	GLR Fast Blow Fuse
	See Product Availability table below.	4E 4-Lamp Electronic T8, Instant Start		OP Frost Glaze Acrylic Lens	TP Tamper Resistant Latches
		EP Electronic, Programmed Start		UV UV Blocking Acrylic Lens	WL Wet Location* (47A only)
		4EP 4-Lamp Electronic, Programmed Start			NYC NYC Compliant
		LE Energy Saving Magnetic T12 (96HO only)			NYCU NYC Compliant, Union Label

SIZE	LAMP TYPE
4 4'	32 4', T8: 32 Watt
8 8'	48HO 4', T12HO: 60 Watt ¹
	48T8HO 4', T8HO: 44 Watt
	96 8', T12: 75 or 60 Watt
	96T8 8', T8: 59 Watt ¹
	96HO 8', T12HO: 110 or 95 Watt ¹
	96T8HO 8', T8HO: 86 Watt ¹

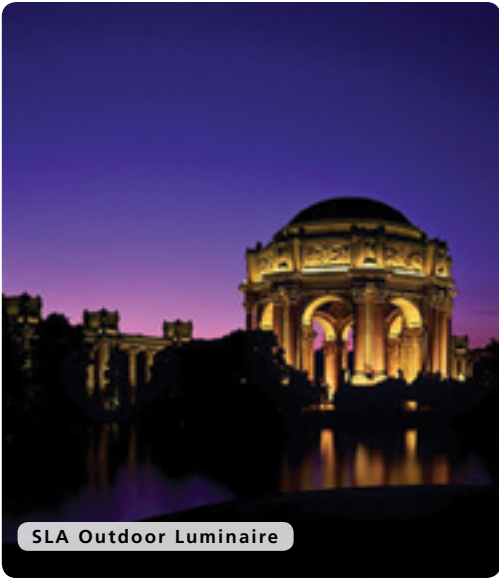
¹High Output units should not be surface mounted.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS IN CROSS SECTION	NO. OF LAMPS IN FIXTURE	LAMP TYPE	WIDTH	LENGTH	HEIGHT
4'	1	1	32, 48HO, 48T8HO	7"	51"	5 1/8"
	2	2	32, 48HO, 48T8HO	7"	51"	5 1/8"
8'	1	2	32, 48HO, 48T8HO	7"	99"	5 1/8"
	1	1	96T8, 96HO, 96T8HO	7"	99"	5 1/8"
	2	4	32, 48HO, 48T8HO	7"	99"	5 1/8"
	2	2	96T8, 96HO, 96T8HO	7"	99"	5 1/8"

APPLICATION PHOTOS



SLA Outdoor Luminaire



CS Utility Channel



LHR Narrow Fluorescent High Bay

CRS

Cleanroom, Class 1

EXTREME ENVIRONMENT



FEATURES

- Class 1 Cleanroom certified for any application
- 1½" T-Bar standard, 1" or 2" optional
- Recessed, flange trim, or surface
- Anodized extruded aluminum door frame
- One-piece, 18 gauge stainless or carbon steel doors available
- UL listed 1598, cUL or CSA. Damp Location standard, Wet Location option
- Meets Federal Standard No. 209E for Class 1 cleanrooms and ISO 14644-1 Class 6 cleanrooms

ORDERING INFORMATION

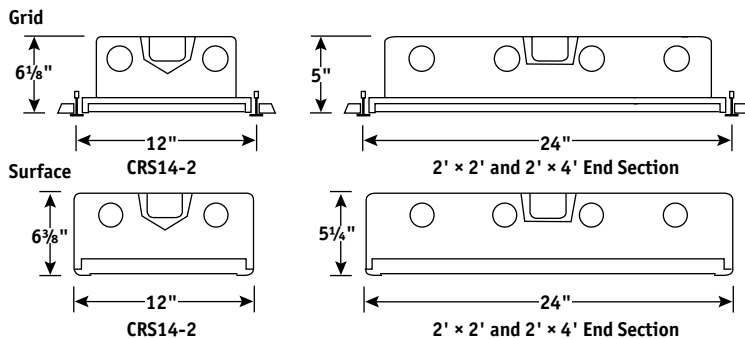
CRS							
MODEL	NO. OF LAMPS IN CROSS SECTION	CEILING TYPE	DOOR	BALLAST²	VOLTAGE		
CRS Cleanroom, Class 1	2 Two 3 Three 4 Four 6 Six See Product Availability table below.	G Lay-in Inverted 1½" Grid F Flange with Wing Hangers S Surface Mount	FA Flush Aluminum FCS Flush One-Piece Carbon Steel Door ¹ FSS Flush One-Piece Stainless Steel Door ¹	NOTE: See Technical Section for other ballast options. E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start EPTT Electronic Twin Tube, Programmed Start	U 120V-277V 347 347V		
SIZE	LAMP TYPE	LENS		OPTIONS			
14 1' × 4'	14 2', T5: 14 Watt	A12 Pattern 12 Acrylic Lens		1T 1" T-Bar			
22 2' × 2'	17 2', T8: 17 Watt	A12125 Pattern 12 Acrylic Lens, 0.125" Nominal		2T 2" T-Bar (1' × 4' and 2' × 4' only)			
24 2' × 4'	24 2', T5HO: 24 Watt	A12125M Pattern 12 Acrylic Lens, 0.125" Minimum		GLR Fast Blow Fuse ⁴			
	28 4', T5: 28 Watt	A19 Pattern 19 Acrylic Lens, 0.156" Nominal		RIF Radio Interference Filter ^{3,4}			
	31U1 U-Bent, 1⅝" Leg Spacing T8: 31 Watt	A19 Pattern 19 Acrylic Lens, 0.156" Nominal		WL Wet Location (N/A with Emergency Battery Pack)			
	32 4', T8: 32, 30, 28 or 25 Watt	RF12125 Pattern 12 Acrylic Lens, Radio Frequency Suppressed, 0.125" Nominal ³		NYC NYC Compliant			
	32U6 U-Bent, 6" Leg Spacing T8: 32 Watt	SASRF Surgical Symmetric/Asymmetric Configuration with RFI Grounding Overlay		NYCU NYC Compliant, Union Label			
	40TT Twin Tube Compact, 2G11 Base: 40 Watt						
	54 4', T5HO: 54 Watt						

¹Not Available for 1½" or 2" grid, RF12125 or SASRF lens.

²Ballasts may not be available in all combinations of lamp/voltage/starting temp/THD shown above. Contact your local Columbia Lighting Representative for more details.

³When using electronic ballasts, Radio Frequency Interference (RFI) cannot be blocked by an RFI filtering lens to the levels specified by MIL std 461. RFI reflected back onto the primary line by the ballast can be blocked by this RFI filter.

⁴One per ballast.



PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	HEIGHT
1' × 4'	2	28, 32, 54	5¼"
	3	28, 32	5¼"
2' × 2'	2	14, 17, 24, 32U6, 40TT	5"
	3	14, 17, 24, 40TT	5"
	4	14, 17, 24	5"
2' × 4'	2	28, 32, 54	5"
	3	28, 32, 54	5"
	4	28, 32, 54	5"
	6	28, 32, 54	5"

FEATURES

- Class 1000 Cleanroom certified
- Low profile, 3½" depth
- Choice of doors from steel to extruded aluminum, open from either side
- Diffuser easily removable for lamp access and cleaning
- Heavy gauge steel housing with embossments for added strength
- Mitered corners
- All parts are powder coated white and painted after fabrication
- Spring loaded steel latches
- Available in pendant mount and row mounting arrangements
- UL listed 1598, cUL or CSA. Damp Location standard

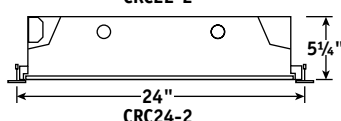
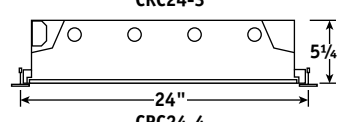
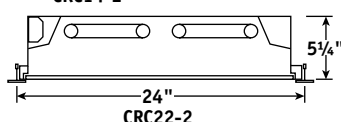
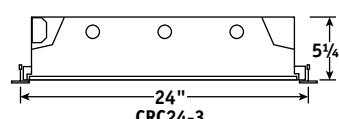
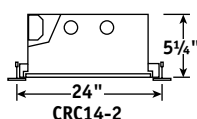


ORDERING INFORMATION

CRC				FA			
MODEL	NO. OF LAMPS	CEILING TYPE	DOOR	BALLAST	VOLTAGE		
CRC Cleanroom, Class 1000	2 Two 3 Three 4 Four (N/A in 1' x 4')	G Lay-in Inverted 1" or 1½" Grid F Flange (Wing Hangers)	FA Flush Aluminum	NOTE: See Technical Section for other ballast options. E Electronic Instant Start (Std.) 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start EP Electronic T5 or T8, Programmed Start 3EP 3-Lamp Electronic T5HO or T8, Programmed Start 4EP 4-Lamp Electronic T5HO (N/A 347V) or T8, Programmed Start EPTT Electronic Twin Tube, Programmed Start	U 120V-277V 347 347V		
	See Product Availability table below.					OPTIONS	
SIZE	LAMP TYPE	SHIELDING					
14 1' x 4'	14 2', T5: 14 Watt	A12 Pattern 12 Acrylic Lens	A19 Pattern 19 Acrylic Lens, 0.156" Nominal	F0730	30K 75CRI T8 Lamps Installed		
22 2' x 2'	17 2', T8: 17 Watt	A12125 Pattern 12 Acrylic Lens, 0.125" Nominal		F0735	35K 75CRI T8 Lamps Installed		
24 2' x 4'	24 2', T5HO: 24 Watt 28 4', T5: 28 Watt 31U1 U-Bent, 1½" Leg Spacing T8: 31 Watt 32 4', T8: 32, 30, 28 or 25 Watt 32U6 U-Bent, 6" Leg Spacing T8: 32 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt 54 4', T5HO: 54 Watt	A12125M Pattern 12 Acrylic Lens, 0.125" Minimum		F0741	41K 75CRI T8 Lamps Installed		
				2T	Modified Housing for 2" T-Bar		
				C388	⅜" Flex w/3 No. 18 Wires		
				C384	⅜" Flex w/3 No. 14 Wires		
				C488	⅜" Flex w/4 No. 18 Wires		
				C424	½" Flex w/4 No. 14 Wires		
				GLR	Fast Blow Fuse		
				WL	Wet Location (N/A with Emergency Battery Pack)		
				NYC	NYC Compliant		
				NYCU	NYC Compliant, Union Label		

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS	LAMP TYPE	HEIGHT
1' x 4'	2	28, 32, 34, 54	5¼"
	3	28, 32, 34	5¼"
2' x 2'	2	14, 17, 24, 31U1, 32U6, 40TT	5¼"
	3	14, 17, 24	5¼"
	4	14, 17	5¼"
2' x 4'	2	28, 32, 34, 54	5¼"
	3	28, 32, 34, 54	5¼"
	4	28, 32, 34	5¼"



SLA

Outdoor Sign and Façade Luminaire

OUTDOOR



FEATURES

- Wet location sign light can be mounted in any direction and still operate properly and retain its wet location approval
- Asymmetric reflector provides outstanding distribution for a crisp clean appearance
- Choice of lamps allows maximum flexibility for any application
- Outdoor ballast box is standard, indoor box available for lamps
- Integrated ballast used for T5 lamping (damp location only)
- 360° aiming provides illumination for signage, eye-catching highlights to facilitate flow of foot traffic or grazing angles for added definition to architectural features
- Extruded aluminum reflector available in white or anodized gray finish
- Easy to aim with adjustable nut, stays in place with die cast ends, that interlock with cast socket housing

ORDERING INFORMATION (T8, T12)

SLA	-	1	-	-	-	-	-	-		
MODEL	NO. OF LAMPS IN CROSS SECTION	OPTIONS	NO. OF LAMPS OPERATED	LAMP TYPE	VOLTAGE	OPTIONS	SIZE ¹	LAMP TYPE	BALLAST BOX MODEL	BALLAST
SLA Outdoor Sign and Façade Luminaire	1 One	DR High Impact Lens ANO Anodized Diffuse Exterior (Gray)	1 One 2 Two	See housing Lamp Type.	U 120V-277V (T8 and T5 only) 347 347V	GRAY Gray Ballast Box (Std. White) NYC NYC Compliant NYCU NYC Compliant, Union Label	4 4' 6 6' 8 8'	32 4', T8: 32, 30, 28 or 25 Watt 48 4', T12: Slimline 48HO 4', T12: High Output 72 6', T12: Slimline 72HO 6', T12: High Output 96 8', T12: Slimline 96T8 8', T8: 59 Watt 96HO 8', T12: 110 or 95 Watt 96T8HO 8', T8: 86 Watt	SLBB Standard Ballast Box (Outdoor vertical mount) SLBI Indoor Ballast Box T8	E Electronic T8 (N/A in HO), Instant Start EP Electronic, Programmed Start LE Energy Saving Magnetic T12 (96 only) Electronic ballast remote mounting lead lengths vary. Contact factory.

ORDERING INFORMATION (T5)

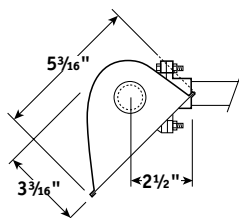
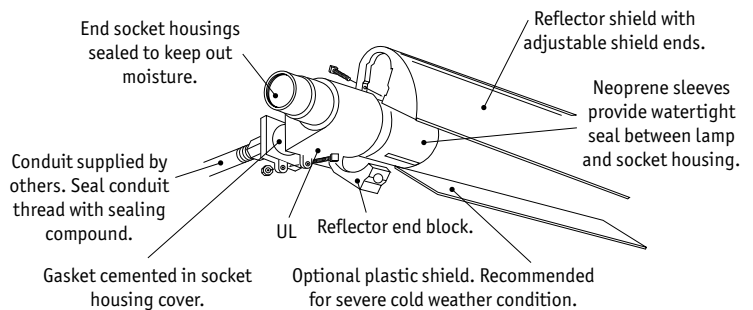
SLA	-	1	-	-	-	EP	-	-
MODEL	SIZE ¹	NO. OF LAMPS IN CROSS SECTION	LAMP TYPE	OPTIONS	BALLAST	VOLTAGE	OPTIONS	
SLA Outdoor Sign and Façade Luminaire	4 4' 6 6' 8 8'	1 One	28 4', T5: 28 Watt (Indoor only) 54 4', T5HO: 54 or 51 Watt (Indoor only)	Blank Gloss White ANO Anodized Diffuse Exterior (Gray)	EP Electronic, Programmed Start	U 120V-277V (T8 and T5 only) 347 347U	NYC NYC Compliant NYCU NYC Compliant, Union Label	

¹Sizes shown are based on nominal housing lengths. Where units will be mounted in rows, please provide row information. E.g. One 16' row consisting of (2) SLA8-154-EPU.

PRODUCT AVAILABILITY

SIZE	NO. OF LAMPS in Cross section	No. of Lamps in Fixture	LAMP TYPE	Width	Length*	HEIGHT
4'	1	1	28, 32, 54	5 ³ / ₁₆ "	51 ¹ / ₄ "	3 ³ / ₁₆ "
	1	1	48HO	5 ³ / ₁₆ "	49 ³ / ₄ "	3 ³ / ₁₆ "
6'	1	1	72HO	5 ³ / ₁₆ "	73 ³ / ₄ "	3 ³ / ₁₆ "
8'	1	1	96T8, 96HO	5 ³ / ₁₆ "	97 ³ / ₄ "	3 ³ / ₁₆ "



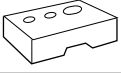




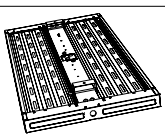
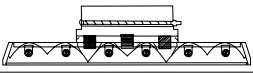

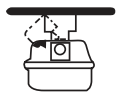


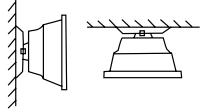
*Length is measured center-to-center on mounting arms.



Accessories

Mounting Accessories

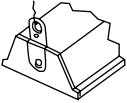
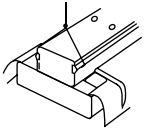
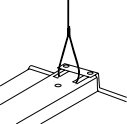
SURFACE MOUNT HANGERS

Surface Mount Hangers	Cat. No.	Description	For Use With
	ITB-4	Hanger for mounting close to ceiling on T-Bar grid system	All surface mounted fixtures
	CS-2	Ceiling spacer for mounting directly to outlet box. Used for mounting fixtures below combustible low density cellulose fiberboard ceilings. Maintains 1½" spacing.	All surface mounted fixtures
	CS-4	All purpose spacer (1½" × 2¼" × 4"), maintains 1" spacing on any type of installation	All surface mounted fixtures
	CS-5	All purpose spacer with special T-Bar clip and stud for mounting to an inverted T-Bar ceiling. Maintains 1½" spacing.	All surface mounted fixtures
	CSZT	Zip tee hanger 1½" spacer. Designed for ¼" wide T-Bars.	CS and CSR series except HO and VHO models
	KZT	Zip tee hanger 1½" spacer. Designed for ¼" wide T-Bars.	CSR-HO and VHO, K, KL, KL-V, and KT
	CSTH	Slide tong hanger for ungrooved channel. Maintains 1½" spacing.	CS and CSR series (RS and SL) (Use KTH and HO and VHO series)
	KTH	Slide tong hanger with 7/8" hole. Maintains 1½" spacing.	K, KL, KL-V, and KT
	LHVTH	Slide tong hanger with 7/8" hole.	LHV
	LHSH6	Slide tong hanger with 9/16" holes	LHR 6-Lamp fixtures
	LHSH4	Slide tong hanger with 9/16" holes	LHR 4-Lamp fixtures
	PEBU	End surface mounting bracket for 2H3S hub options	LUN, LU, FNPS
	PEBUHMS	End surface mounting bracket for 2H and 2HS hub options	FNPV, FNPS
	PEBA	End surface mounting bracket with 90° adjustment for 2H3S hub options	LUN, LU, FNPS
	PEBAHMS	End surface mounting bracket with 90° adjustment for 2H and 2HS hub options	FNPV, FNPS
	PTBS	Surface mounting bracket, 304 Stainless steel, 2 brackets	FNPV, FNPS, FDPS, FNPH, FDPH
	PTBS3	Surface mounting bracket, 304 Stainless steel, 3 brackets	FNPV, FNPS, FDPS, FNPH, FDPH
	PTBA	Surface mounting bracket, 304 Stainless steel, wall mount with 90° adjustment in 15° increments, 2 brackets	FNPV, FNPS, FDPS, FNPH, FDPH
	PTBA3	Surface mounting bracket, 304 Stainless steel, wall mount with 90° adjustment in 15° increments, 3 brackets	FNPV, FNPS, FDPS, FNPH, FDPH
	FSPHB	Top bracket suspension kit, 304 Stainless Steel	FSPH
	FSPHWA	Top bracket wall/angle kit, 304 Stainless Steel	FSPH

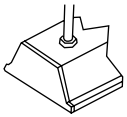
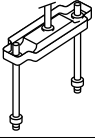
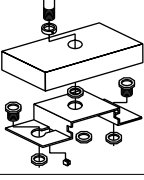
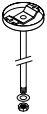
Accessories

Mounting Accessories

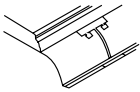

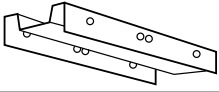

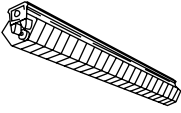
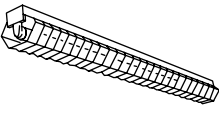


CHAIN AND CABLE HANGERS

Chain and Cable Hangers	Cat. No.	Description	For Use With
	LUNHK	Chain hanging (chain not included)	LUN, LU
	SSHK	Stainless Steel hanging kit (chain not included)	LU, restricted use on LUN series (Contact your local Columbia Lighting representative)
	CSHC	Chain hanging assembly includes two 24" lengths of chain and two hanger hooks.	CS and CSR (Bi-pin and Slimline)
	KHC	Chain hanging assembly includes two 14" lengths of chain and two hanger hooks.	K, KL, KL-V, KT, and CSR (H0)
	ICHC	Chain hanger assembly, #3 size cable, 12'.	IC
	GLH5 GLH10 GLH20	Cable hangers, #2 size cable with loop-end, 5', 10', and 20' lengths, adjustable	All industrials
	LHVQM5 LHVQM10 LHVQM20	Y-Fit Hook Cable Hangers, #2 size cable, 5', 10', and 20' lengths, adjustable	LHV
	CM24 CM48	Single point mount cable with canopy kit, pair. (Feed and non-feed ends) 24" or 48" with barrel adjuster.	STP. Others may require field drilling of mounting holes.

PENDANT/STEM MOUNTING ACCESSORIES

Pendant/Stem Mounting	Cat. No.	Description	For Use With
	HUBK	Stem hanging kit consists of two die cast hubs, two "O" rings and locknuts. Hubs are threaded for 1/2" pipe. Housings must be drilled to install hubs.	LUN, FNPV, LU, FNPS, FDPS, FNPH, FDPH
	S18D	Double canopy (2) 18" stems	All 4' RO and PT
	SB3	Stem hanger adaptor bracket for 3-lamp surface mounted units. Reduces total number of mounting points required.	MWW 3-lamp EWW 3-lamp AWW 3-lamp WCW 3-lamp
	S18	Swivel canopy, one 18" stem - all white finish, 8° swivel	Individual or continuous row mounting of most surface and industrial fixtures
	SS18	Swivel canopy, one 18" stem - all white finish, 45° swivel	
	C18	Swivel canopy only - all white finish, 8° swivel	
	S018	One 18" stem only - all white finish	

REFLECTOR ACCESSORIES AND WIREGUARDS

Chain Hangers	Cat. No.	Description	For Use With
	CSRAC	Full range aligners (set of two) for aligning reflector flanges and closing gaps between two reflectors. White	CSR
	KLRAC		KL
	KLVRAC		KL-V
	KLEC	Reflector end closure (per end). Baked white enamel	KL and KL-V
	KC2	Heavy duty 10" sleeve coupler	K, KL, KL-V, KT and CSR (HO)
 LHVWG-6 shown	LHVWG-4	Wireguard, white, 4-lamp LHV	LHV 4-lamp
	LHVWG-6	Wireguard, white, 6-lamp LHV	LHV 6-lamp
	LHRWG4K	Wireguard, white, 4-lamp LHR	LHR 4-lamp
	LHRWG6K	Wireguard, white, 6-lamp LHR	LHR 6-lamp
	LHRNWG	Wireguard, white, LHR Narrow Body	LHR Narrow
	LHEMWG	Wireguard, chrome, LHEM fixtures	LHEM
	LHEWWG	Wireguard, chrome, LHEW fixtures	LHEW
	ICWG4	4 ft. Wireguard, white	IC
	KLWG4		KL
	CSRWG4-4PK		CSR
	CSRWG2-4PK	2 ft. Wireguard, white	CSR
	CSRWG3-4PK	3 ft. Wireguard, white	CSR
	CSWG2-24PK	2 ft. Wireguard, white	CS
	CSWG3-12PK	3 ft. Wireguard, white	CS
	CSWG4	4 ft. Wireguard, white	K, CS
	CHWG2-12PK	2 ft. Wireguard, white	CH
	CHWG3-12PK	3 ft. Wireguard, white	CH
	CHWG4-12PK	4 ft. Wireguard, white	CH
		KLEGG	Metal egg crate louver, 4 ft., White Two required for 8 ft. fixtures
	KLFA12	Framed acrylic shielding. Two required for 8 ft. units. Cannot be combined with the KLWG4	KL (not available with KL-V)

SENSOR ACCESSORIES FOR INDUSTRIAL AND STRIP FIXTURES¹



- Digital passive infrared (PIR) sensor
- Unique Smart Cycling™ for improved lamp life, dual output version only
- Single and dual timer operation
- Supports mounting heights up to 45 ft.
- Photosensor version available for daylight harvesting
- Kit includes "plug and play" wiring that enables use with standard fixtures



HIGH BAY, INDUSTRIAL AND STRIP FIXTURE ACCESSORY OFFERING (INCLUDES SNAP ON EXTENSION ADAPTOR*)

- OS1K Occupancy sensor kit, 120/277/347V, one relay
- OS2K Occupancy sensor kit, 120/277/347V, two relay
- OS480K Occupancy sensor kit, 480V, one relay
- ODS1K Occupancy sensor kit with daylight harvesting photosensor, 120/277/347V, one relay
- ODS2K Occupancy sensor kit with daylight harvesting photosensor, 120/277/347V, two relay
- ODS480 Occupancy sensor kit with daylight harvesting photosensor, 480V, one relay

*Extension adaptor needed when the height of the edge of the ballast cavity knockout is greater than or equal to 1.5" from bottom side of housing or reflector
*Extension adaptor should be used to position the sensor below the bottom of the reflector for full field of view coverage

LHV SENSOR ACCESSORY OFFERING* (INCLUDES EASY TO INSTALL LHV SNAP ON BRACKET)

- LHVOS1 LHV Occupancy sensor kit, 120/277/347V, one relay
- LHVOS2 LHV Occupancy sensor kit, 120/277/347V, two relay
- LHVOS480 LHV Occupancy sensor kit, 480V, one relay
- LHVODS1 LHV Occupancy sensor kit with daylight harvesting photosensor, 120/277/347V, one relay
- LHVODS2 LHV Occupancy sensor kit with daylight harvesting photosensor, 120/277/347V, two relay
- LHVODS480 LHV Occupancy sensor kit with daylight harvesting photosensor, 480V, one relay

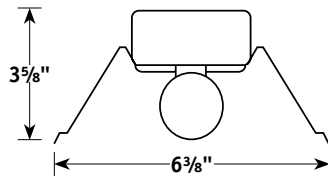
¹ Programmed start ballasts recommended for use with sensor accessories.

*Factory installed sensor options available with LHV fixture, see page 60.

Accessories

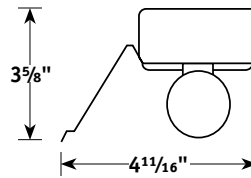
Reflector Accessories

REFLECTORS FOR CH 1-LAMP CHANNELS



Symmetric

- CHR2** Symmetric reflector for 2' fixtures.
- CHR3** Symmetric reflector for 3' fixtures.
- CHR4** Symmetric reflector for 4' fixtures

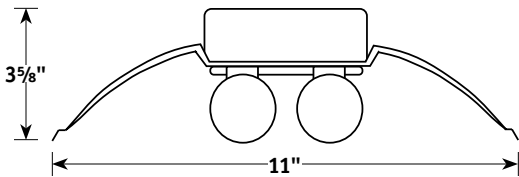


Asymmetric

- CHRA2** Asymmetric reflector for 2' fixtures.
- CHRA4** Asymmetric reflector for 4' fixtures.

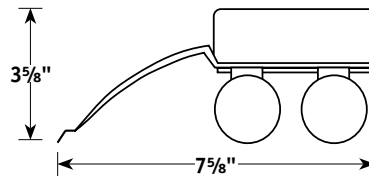
CHR and CHRA reflectors are secured to channel with sheet metal screws provided.
CHR and CHRA reflectors are pre-finished with baked enamel, 86% minimum reflectance.
Polyester powder coat paint after fabrication (PAF) available as option.

REFLECTORS FOR CS AND K 1- OR 2-LAMP CHANNELS



Symmetric - CSR4

- Symmetric reflector for 4' fixtures (order two for 8' units).
- Center saddles are required for 8' channels.
- For CS channel order center saddle CSSAD.
- For K channel order center saddle KSAD.

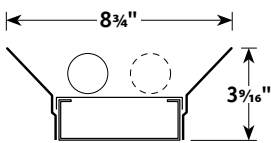


Asymmetric - CSRA4

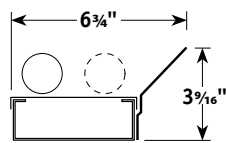
- Asymmetric reflector for 4' fixtures (order two for 8' units).
- Center saddles are required for 8' channels.
- For CS channel order center saddle CSSAD.
- For K channel order center saddle KSAD.

CSR and CSRA reflectors are attached with captive quarter turn fasteners included.
CSR and CSRA reflectors are pre-finished with baked enamel, 86% minimum reflectance.
Polyester powder coat paint after fabrication (PAF) available as option.

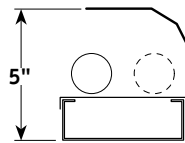
REFLECTORS FOR SS 1 OR 2-LAMP STAGGERED STRIPS



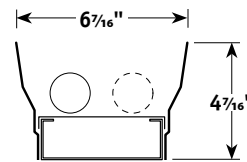
SSR
Symmetric
(2 pieces)



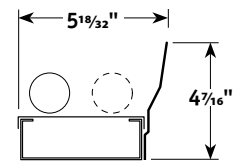
SSRA
Asymmetric
(1 piece)



SSRAK
Asymmetric Kicker
(1 piece only)



SSRD
Symmetric Deep
(2 pieces)



SSRDA
Asymmetric Deep
(1 piece)

Ordering Guide: Show reflector as option on strip catalog number. (Example: SS4-132SYM-EU-SSR)

Notes

1. Symmetric reflectors consist of two pieces.
2. Asymmetric reflectors consist of one piece.
3. Adjustable housings require 4' reflectors for field adjustment.
4. Use of reflector(s) on staggered strip requires modification to strip housing. Bulk reflectors should not be ordered except as replacements.
5. Reflectors attach with sheet metal screws, provided.

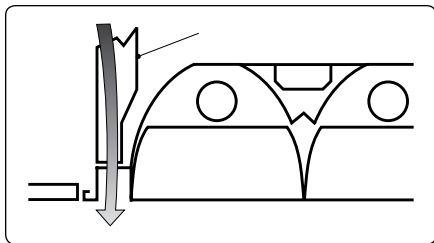
Reflectors are pre-finished with baked white enamel, 86% minimum reflectance.
Polyester powder coat paint after fabrication (PAF) available as option.

Recessed Options

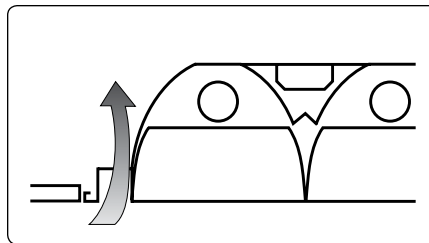
Air Handling

BASIC AIR FUNCTIONS

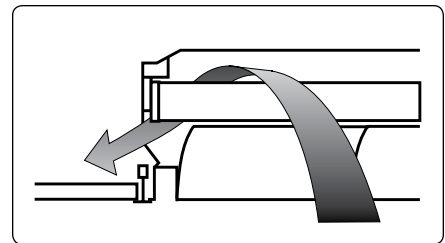
Designation	Description	Air Function
-S	Static	No air flows through fixture.
-A	Air Supply/Return	Air flows into room from plenum or back into plenum from room. We provide slots in housing. For optional vanes, see below.
-H	Heat Extract	Slots are provided in end cap or back of housing (instead of through black reveal). Units without a black reveal feature slots in door for air passage to lamp compartment. For optional dampers, see below.
-C	Combined	Both the -A and -H functions above are combined in one unit.



SUPPLY



RETURN



EXTRACT THROUGH END CAP

Note: Some units extract air through back of fixture housing.

AIR FUNCTION CONTROL OPTIONS

Vanes (V) Also referred to as air pattern blades or directional air vanes.

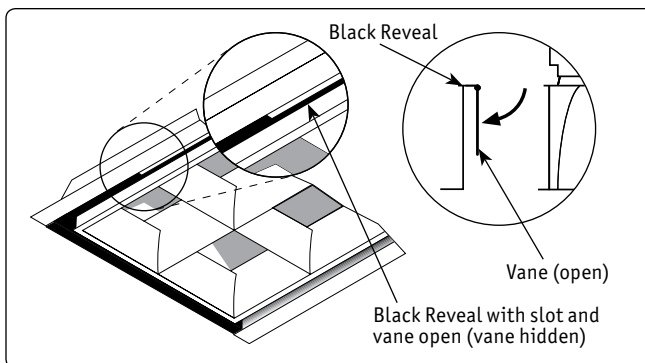
Vanes work with supply/return air (-A or -C). Vanes open outward, from 0 to 90 degrees, like a door swinging open. To control air flow, adjust opening as desired or close completely. When used on a -C fixture, vanes operate independently of dampers.

Dampers (D) Also referred to as heat removal dampers or control dampers.

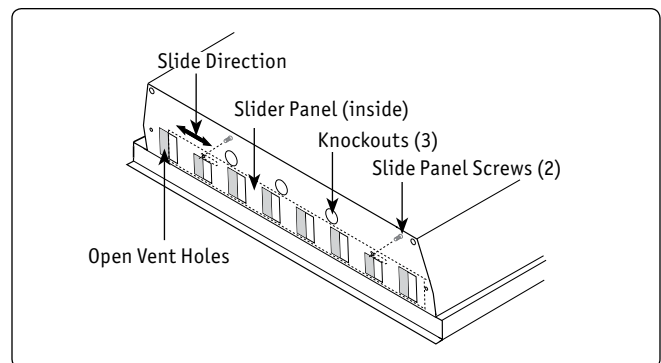
Dampers work with extract air (-H, -C). Dampers slide open, like a window. To control air flow, adjust opening as desired or close entirely. When used on a -C fixture, dampers are controlled independently of vanes.

Designation	Description
-AV	Air Supply/Return with Vanes
-CV	Combined with Vanes Only
-CVD	Combined with Vanes and Dampers

Designation	Description
-HD	Heat Extract with Dampers
-CD	Combined with Dampers Only



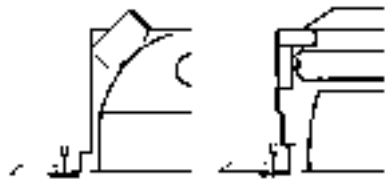
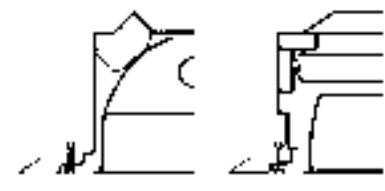
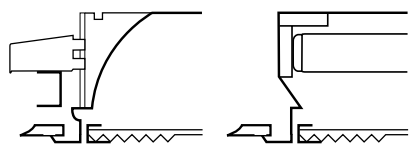
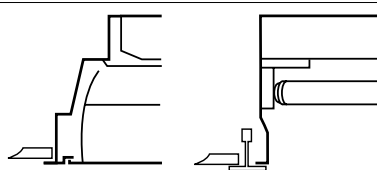
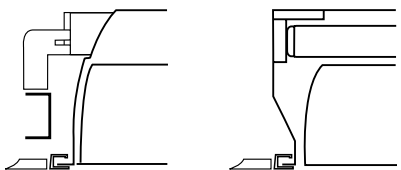
AIR WITH VANES (SUPPLY/RETURN OPTIONS)



DAMPERS (EXTRACT OPTION)

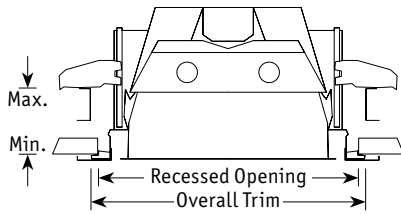
Recessed Options

Ceiling Trims

Ceiling Type	Recommended Trim	Cross Section	Availability
1" T-Bar	G (Grid)	 <p>For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 1½" allowed.</p>	45, 4PS, 4VS, 5PA, 6PA, AC, BR, CRC, CRF, CRS, EMI, EMS, EMX, EPC, FW, HC, HH, HV, JT8, STR, STRL, STS, STSL, VC, VHC, WT, ZPT
¾" Slot Grid	SG (Slot Grid)	 <p>For slot grid type ceilings with nominal ¾" face and ⅜" tall shoulder, louver will be level with the ceiling plane.</p>	45, 5PA, 6PA, BR, HC, P4, PW, STR, STRL, STS, STSL
Hard Ceiling	F (Flange)	 <p>For tile, plaster, or plasterboard type ceilings. Overlapping extruded aluminum trim conceals edges of ceiling opening. Wing hanger suspension system included. Designate INT (intermediate) or EOR (end of row) for fixtures in row applications.</p> <p>For fixtures not available with integral (F) flanges, order (G) trim with corresponding Flange Kit (see pg. 106)</p>	45, 4PS, 4VS, 5PA, 6PA, AC, CRC, CRS, FLSB, HC, HH, HV, HZ, LHG, LSL, M46, P2, P4, ST8, VHC, WT NP and CRC series flange use yoke hanging system (not illustrated).
1" Tee across fixture ends. Supplied side trim support ceiling tile along length	GT (Integral Cross -tee)	 <p>For lay-in installation in grid ceilings. Fixture mounts on exposed tees at ends of fixture. Sides act as integral cross-tee to support tile, eliminating need for intermediary tees. Designed for nominal 1" tees.</p>	4594, BR04, LSL84, NP, PVHC94, VHC94
Metal Pan	M (Modular)	 <p>For metal pan ceilings "Fit-in" style extruded trim aligns with modular tile joints. Fixture is supported from concealed suspension and includes all adjustable wing hangers.</p>	45, 4PS, 4VS, 5PA, 6PA, HC, LHG, P2, P4
<p>Recessed units available for Surface Mount (SM) applications: 45, BR, CRS, EMS, EPC, FW, HC, LHG, LSL, P2, P4, PW, STR, STRL, STS, STSL, VHC, ZPT. Refer to ordering guide to build.</p>			

Recessed Options

Flange Trims



DIMENSIONAL EXAMPLE

TECHNICAL

PARABOLICS

Series	Size	Vertical Wing Hanger Adjust		Overall Trim Dimensions		Single or Row		Rough-In Dimensions			
		Min.	Max.	Width	Length	Width	Length	Specify option INT (intermediate) or EOR (end of row).			
								Row Length			
		Nom. Length	Multiply by	Plus	Example						
P4, HC	1' x 4'	1 1/4"	4 1/4"	12 13/16"	48 13/16"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 7/8"	24 13/16"	24 13/16"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 7/8"	24 13/16"	48 13/16"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
45	1' x 4'	1"	3 1/4"	12 13/16"	48 13/16"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 7/8"	24 13/16"	24 13/16"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 7/8"	24 13/16"	48 13/16"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
VHC, PVHC	9" x 4"	2"	4"	10 1/2"	48 3/4"	9 7/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"

LENSED TROFFERS

Series	Size	Vertical Wing Hanger Adjust		Overall Trim Dimensions		Single or Row		Rough-In Dimensions			
		Min.	Max.	Width	Length	Width	Length	Specify option INT (intermediate) or EOR (end of row).			
								Row Length			
		Nom. Length	Multiply by	Plus	Example						
4PS, 4VS	1' x 4'	7/8"	3"	12 3/4"	48 3/4"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	2 7/8"	24 3/4"	24 1/4"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	2 7/8"	24 3/4"	48 3/4"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
5PA	1' x 4'	7/8"	3"	12 3/4"	48 3/4"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1 1/4"	2 7/8"	24 3/4"	24 1/4"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	2 7/8"	24 3/4"	48 3/4"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
6PA	1' x 4'	1 1/4"	4 1/4"	12 13/16"	48 13/16"	12 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
	2' x 2'	1"	3 3/8"	24 13/16"	24 13/16"	24 1/8"	24 1/8"	24"	# in row	1/8"	(24" x 2) + 1/8" = 48 1/8"
	2' x 4'	1"	3 3/8"	24 13/16"	48 13/16"	24 1/8"	48 1/8"	48"	# in row	1/8"	(48" x 2) + 1/8" = 96 1/8"
ST8, WT	1' x 4'	1"	3 3/16"	12 3/4"	49 5/8"	12 1/8"	48 1/8"	48"	# in row	7/8"	(48" x 2) + 7/8" = 96 1/8"
	2' x 2'	1"	3 3/16"	24 3/4"	24 5/8"	24 1/8"	24 1/8"	24"	# in row	7/8"	(24" x 2) + 7/8" = 48 1/8"
	2' x 4'	1"	3 3/16"	24 3/4"	49 5/8"	24 1/8"	48 1/8"	48"	# in row	7/8"	(48" x 2) + 7/8" = 96 1/8"

Recessed Accessories

Flange Kit and Plaster Frame Information

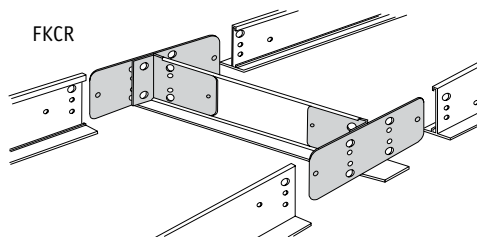
FLANGE KITS

Flange kits are extruded aluminum frames that act as individual fixture T-Bar frames to support the weight of any G (grid) trim recessed fixture in drywall or plaster ceilings. Kits snap together without the use of tools (18 gauge galvanized corner clips provided) and are hung by tie wire (by others) from the ceiling support structure.

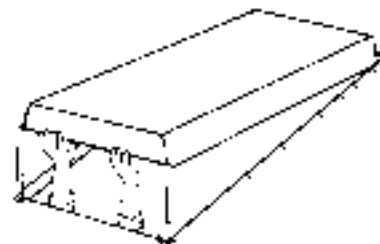
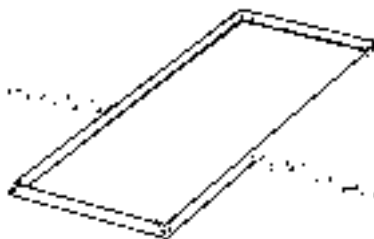
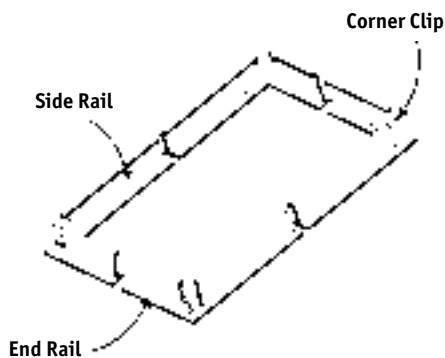
From the room side flange kits mimic the appearance of T-Bars in a baked white enamel finish. Consult chart for ceiling cut out dimension.

For continuous row applications order flange kits plus one FKCR, continuous row flange connector kit, for each joint between fixtures. (One less than the number of fixtures in the row.)

FLANGE KIT		CEILING OPENING	
Catalog No.	Size	Width	Length
FK14	1' x 4'	12 $\frac{3}{8}$ "	48 $\frac{3}{8}$ "
FK22	2' x 2'	24 $\frac{3}{8}$ "	24 $\frac{3}{8}$ "
FK24	2' x 4'	24 $\frac{3}{8}$ "	48 $\frac{3}{8}$ "
FK44	4' x 4'	48 $\frac{3}{8}$ "	48 $\frac{3}{8}$ "
FK81	8" x 1'	8 $\frac{3}{8}$ "	12 $\frac{3}{8}$ "
FK82	8" x 2'	8 $\frac{3}{8}$ "	24 $\frac{3}{8}$ "
FK84	8" x 4'	8 $\frac{3}{8}$ "	48 $\frac{3}{8}$ "



FLANGE KIT INSTALLATION INSTRUCTIONS



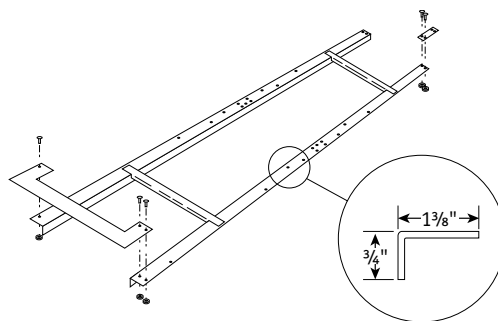
1. Cut ceiling opening to proper dimensions. Slip fit corner clips into side and end rails. No tools are required.
2. Place Flange Kit in ceiling opening and wire each corner to ceiling structure. Pull up tight against ceiling.
3. Place grid trim troffer in Flange Kit.

PLASTER FRAMES

Plaster frames are galvanized steel rails used to trim ceiling openings primarily in wet plaster applications. They are installed during ceiling construction and help maintain the correct opening dimensions for installation of flange trimmed recessed fixtures. See fixture specification sheet for dimensions required for framing to support the weight of the fixture.

Use plaster inside dimensions for framing opening in dry ceilings. Framing (by others) required to support the weight of the fixture.

Catalog No.	Description	Nominal Size	Inside Dimension
PL14	Individual	1' x 4'	12" x 48 $\frac{3}{8}$ "
PL14R	For Rows	1' x 4'	-
PL22	Individual	2' x 2'	24" x 24 $\frac{3}{8}$ "
PL24	Individual	2' x 4'	24" x 48 $\frac{3}{8}$ "
PL24R	For Rows	2' x 4'	-
PL44	Individual	4' x 4'	48" x 48 $\frac{3}{8}$ "



Plaster Frames:

- For mounting any Columbia Lighting flanged troffer in a plaster ceiling
- Provides a clean, finished appearance

Standards Compliance

HOW TO ACHIEVE A FIRE RATING

UL publishes a book called The Fire Resistance Directory each February. A supplement is issued each August. The Fire Resistance Directory contains instructions for fire rated ceiling systems. Each approved ceiling system has a design number. The fire rated ceiling system is achieved by selecting a design number and following instructions, which include spacing criteria, enclosure requirements, and so on. When complete, the system carries a rating (for example: one hour). FR option provides a label indicating the fixture is suitable for use in such ceiling systems. Many ceiling designs required an enclosure or "tent" of fire resistant material over the back of the fixtures. These enclosures are either built on-site, sometimes of ceiling tile material, or purchased as one-piece molded covers.

Fire Rated Troffers: Debunking the Myth

WHAT IS A FIRE RATED LABEL?

Columbia Lighting can provide a fire rated label (FR option) which states that our recessed light fixtures are manufactured in accordance with UL1598 and, therefore, can be installed in a fire rated ceiling system. There are no additional requirements of a recessed fixture in order for it to be used in a fire rated design.

I NEED A FIRE RATED TROFFER.

A true fire rated troffer does not exist because UL does not list troffers as "fire rated". Instead, they list ceiling systems which may include UL listed troffers as part of that system.

BUT MY INSPECTOR SAYS I NEED ONE.

Your inspector has authority and jurisdiction over your project. However, a better understanding of the fire rated ceiling system process can help in your discussions. Order the FR option where required by local authorities.

I REMEMBER FIRE RATED TROFFERS FROM JOBS PAST.

UL listed three ceiling designs using a special fire rated troffer many years ago. Columbia Lighting (and a few others) offered this troffer, which consisted of a recessed unit with a sheet of fire resistant material attached to the back of it. Since all three ceilings have been obsolete for decades (some exceptions in Canada), Columbia Lighting no longer manufactures this troffer. Instead, we manufacture in accordance with UL 1598, which allows our recessed fixtures to be installed in a fire rated ceiling system.

FIRE RATED ENCLOSURES

An FR label does not indicate whether or not "tenting" of the fixtures is required; all installation must be in accordance with the UL Fire Rated Ceiling design.

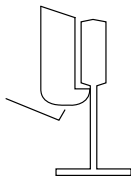
T-BAR LOCK CLIPS

Four integral T-Bar lock clips are standard on many Columbia Lighting recessed fixtures. Integral clips are built according to the rigorous demands of UL 1598. Where integral clips are not available, a parts bag is provided containing two clips for attachment to the housing structure. Four clips are available upon request.

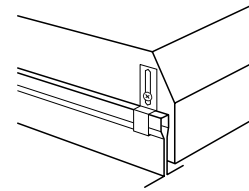
INTEGRAL CLIP

Fixture is equipped with integral T-Bar Clips at each end. To engage T-Bar, bend clip outward and lock under T-Bar.

For installation in the following NEMA ceiling types: -G -GR -NFG -NFSG -SS



NON-INTEGRAL CLIP



DAMP AND WET LOCATION LABELS

Columbia fixtures will be labeled suitable for installation in damp locations (most fixtures) or wet locations (select extreme environment and outdoor fixtures) as called out on the specification sheets. Installation of a dry-location listed customer specified component such as an emergency inverter requires the fixture to be labeled for dry location use only.

BALLAST DISCONNECT

All Columbia fixtures are in compliance with NEC and CEC requirements for ballast disconnects by including integral ballast disconnects in required fixtures.

The following fixtures are excluded from the ballast disconnect requirement:

- Hazardous location fixtures—HZ, FLSB, FNPH, FDPH, FSPH, CRS (with D2 option)
- Fixtures with emergency battery pack options

Fire Rated Label

This fixture is equipped with premium low heat ballasts to prevent ballast cycling when installed in a fire rated ceiling system. This fixture is compatible with UL Fire Rated Ceiling designs when installed in accordance with the UL Fire Resistance Directory.

Ballast Options

Ballast Types

BALLAST TYPES

Columbia Lighting supplies ballasts from a variety of reputable vendors whose products conform to Columbia Lighting's standard specifications (pg. 107). See Ballast Specified Vendor Options to order a particular manufacturer's product or ballast series. All ballast information is based on manufacturer's published literature and is subject to change without notice.

ELECTRONIC BALLAST TYPES

Start Method	Definition	Designation	Characteristics
Electronic Instant Start	Strikes lamp without filament preheating. Lowest wattage draw option for applications without control systems. Used for T8 bi-pin and slimline lamp types. Ballasts for F32T8 full or reduced wattage lamps are NEMA Premium qualified.	E	Standard (.87-1.0 BF)
		E104	EnergyMax 1.04 BF
		EHL	High light output (1.18-1.2 BF)
		ELW	Low wattage (.77-.78 BF)
		ETT	Twin Tube lamp types
Electronic Programmed Start	Recommended for frequently switched applications including occupancy sensor controlled lighting because programmed filament preheating can help extend lamp life. Remote mounting distance more restricted than with instant start. Sometimes called programmed rapid start. Available for all 2-pin lamp types. Ballasts for F32T8 full or reduced wattage lamps are NEMA Premium qualified and parallel wired.	EP	Standard, 0.88 BF
		EPTT	Twin Tube lamp types
		EP_	Alternate ballast factors. Eg. EP95, EP115 for T5 lamp types, EP104 for T8 lamp types
		EPHL	High light output (1.15 - 1.20 ballast factor)
		EPSP5	Parallel Wired for T5 lamps
Electronic Step Dimming	Electronic programmed start ballast with two hot leads to allow both lamps to switching between 100% and 50% light levels for energy management. Requires two switched leads from same panel. Not suitable for remote mounting. 2-lamp ballasts.	ESD	Standard BF (T5 or T8 bi-pin)
		ESD104	EnergyMax 1.04 BF (T8 Bi-pin)
		ESD80	Alternate ballast factor for 54T5H0
Electronic Full Dimming	Responds to either line voltage or low voltage signals to dim lamps from 100% to 10% or lower, depending on model. Many ED ballast types require voltage specified. Not suitable for remote mounting.	ED_	Add vendor and ballast series compatible with control system. Eg. ED120 LUTEC10

MAGNETIC BALLAST TYPES

Start Method	Definition	Designation	Characteristics
Low Power Factor	Also called normal power factor (NPF). Labeled for residential use only.	L	For residential fixtures using 2', 3', or 4' Bi-pin T12 lamp types.

Ballast Options

Ballast Quantities and Specified Vendors

BALLAST QUANTITIES






Fixtures with 3, 4, 6, and 8 lamps will be supplied with two ballasts standard. Optional ballast quantities are available.

See also Master-Satellite option for ballast quantity options on tandem-wired pairs. In tandem-length fixtures with more than one ballast, lamps are wired side by side unless left and right (LR option) is specified.

Number of Lamps in Fixture	Standard Designation	Optional Ballast Designation
1 or 2	Provides one ballast	Adding 11, such as 11E or 11EP, provides two (2) ballasts in 2-lamp fixtures
3	Provides two ballasts, one on inboard lamp, one on outboard	Adding 3, such as 3E or 3EP, provides one (1) 3-lamp ballast
4	Provides two ballasts, one on inboard lamps, one on outboard	Adding 4, such as 4E or 4EP, provides one (1) 4-lamp ballast
6	Must specify	Adding 24 (eg.), such as 24E or 24EP, provides a 2-lamp and 4-lamp ballast (recommended). 3E or 3EP provides (2) 3-lamp ballasts
8	4E provides two (2) 4-lamp ballasts wired on lamps 1, 4, 5, 8 and 2, 3, 6, 7	Consult factory

SPECIFIED VENDORS*

Specify ballast type, optional ballast quantity and vendor option. Eg. 3ED120LUTFDB

Vendor	Vendor Specified Designation	Vendor and Series Specified Designation	Vendor's Series Name (normal ballast factor unless noted)
	LUT	LUTHIL	Hi-Lume Dimming
		LUTES	EcoSystem incl. E1/E2 only (Dimming)
		LUTESSW	EcoSystem incl. sensor wires (Dimming)
		LUTEHD	EcoSystem H
	ULT	ULTHE	Ultim8
		ULTHP	High Performance
 imagination at work	GE	GEMAXH	Ultramax High BF
		GEMAXL	Ultramax Low BF
		GEMAXN	Ultramax
	SYL	SYLQHE	High Efficiency
		SYLPSX	Extreme
		SYLPHO	Helios Dimming
		SYLDIM	Powersense Dimming
	ADV	ADVCEN	Centium
		ADVIOP	Optanium
		ADVMK10	Mark X Dimming
		ADVMK7	Mark VII Dimming

*Others available, call out ballast catalog number in fixture description. Dimming ballasts use ED plus voltage and vendor designation.

Ballast Options

Ballast Characteristics and Total System Watts

BALLAST CHARACTERISTICS

General Definitions

POWER FACTOR

Measure of how effectively ballast converts power source into usable watts. Ideal power factor would measure 1.0.

CREST FACTOR

Measure specifying the ratio of peak current to R.M.S. current in the waveform used to drive programmed start lamps. High crest factors shorten lamp life.

TOTAL HARMONIC DISTORTION

Measure of magnitude of input current harmonics compared with amplitude of fundamental frequency current.

BALLAST FACTOR

Lamp manufacturers publish lumen data based upon a "reference ballast" built to meet ANSI standards. Ballast factor is a measure of how well a ballast performs in comparison to the "reference ballast" as a percentage of rated lumen output.

COLUMBIA LIGHTING BALLAST SPECIFICATIONS

All factory-choice normal ballast factor electronic ballasts meet the following specifications. Optional ballast factors and customer specified vendor available as options.

Ballast must be high power factor, (min. .95), Class P, UL listed, meet IEEE and ANSI requirements C62 .41 Category A for transient protection and FCC Regulations, Class A for electromagnetic interference. Operates at voltage variance of +/- 10%, crest factor of <1.7, total harmonic distortion (THC) <10% for primary lamp type, minimum ballast factor (BF) of .87 (.95 for T5/T5HO lamp types). Ballast must start lamps at 0°F ambient temperature.



All ballasts for F32T8 full and reduced wattage lamps must be NEMA premium qualified.

TOTAL SYSTEM WATTS

The Total System Watts refer to the ballast and lamp watts consumed per luminaire. Input watts are based upon ANSI watts as published by ballast manufacturer's literature which is subject to change without notice. Ballast information shown is generic and serves as an approximation only; actual input watts vary according to specific ballast manufacturer and ballast number. For exact input wattage contact either the ballast manufacturer or Columbia Lighting Technical Support. Wattage published in Columbia IES photometric tests represents actual measured watts.

Total System Watts (Watts/Volts = Amps)

Ballast Type	Catalog Designation	Lamp Type	No. of Lamps	Input Watts*
Electronic Programmed Start T5	EP	F14/T5	1	19
	EP	F14/T5	2	34
	EP	F24/T5HO	1	28
	EP	F24/T5HO	2	53
	EP	F28/T5	1	34
	EP	F28/T5	2	66
	EP	F54/T5HO	1	63
	EP	F54/T5HO	2	121
	3EP	F54/T5HO	3	182
	4EP	F54/T5HO	4	240
	EP80	F54/T5HO	2	96
	EP95	F28/T5	2	60
	EP115	F28/T5	2	69
	ESD80	F54/T5HO	2	96/52
	ESD95	F28/T5	2	60/28
	ESD104	F32/T8	2	65/32.5
ESD115	F28/T5	1, 2	71/34	
Electronic Programmed Start T8	EP	F32/T8	1	31
	EP	F32/T8	2	62
	EP104	F32/T8	2	65
	3EP	F32/T8	3	92
	4EP	F32/T8	4	119

Ballast Type	Catalog Designation	Lamp Type	No. of Lamps	Input Watts*
Electronic Instant Start T8	E	F32/T8	1	30
	E	F32/T8	2	56
	3E	F32/T8	3	85
	4E	F32/T8	4	112
	E	F96/T8	1	70
	E	F96/T8	2	108
	E	F96/H0/T8	1	100
	E	F96/H0/T8	2	185
	E104	F32/T8	2	67/66
	E104	F32/T8 (28 watt)	2	60/59
	E105	F32/T8 (25 watt)	2	51/51
	Electronic T12	E	F96/T12/ES	1
E		F96/T12/ES	2	105
EP		F96/T12/H0	1	119
EP		F96/T12/H0	2	208
Electronic TT	ETT	F40/TT	1	39
	ETT	F40/TT	2	68
	3ETT	F40/TT	3	99
	EPTT	F40TT	1	38
	EPTT	F40TT	2	76
3EPTT	F40TT	3	110	

*Where published input watts differ between 120/277V the higher (120V) wattage is given. For 2 level step dim ballasts (ESD types) both high and low output wattages are given.

Electrical Options

EMERGENCY BATTERY PACKS INSTALLED

Luminaires with factory installed battery packs will bear the UL Emergency equipment label. Dry location labeling standard. Standard inverter options below are not suitable for cold temperature starting, damp or wet location labeling. Optional inverters available for these applications. Consult factory or specify vendor's catalog number.

EL	350-450 lumens for one 2'-4' lamp (T8, T12, U-Bent, TT)	EL141	1100-1400 lumens for one 2'-8' lamp (T8, T12, U-Bent, TT)
EL61	500-600 lumens for one 2'-4' lamp (T8, T12, U-Bent, TT)	EL142	1100-1400 total lumens for two 2'-4' lamps
EL71	600-700 lumens for one 2'-8' lamp (T8, T12, U-Bent, TT)	EL5*	390-700 lumens for one 2'-4' T5/T5HO
EL72	600-700 total lumens for two 2'-8' lamps (T8, T12, U-Bent)	EL5H*	725-1250 lumens for one 2'-4' T5/T5HO

*These inverters not available in some 2' fixtures due to space constraints. Remote mounting using accessory enclosure (by others) recommended.

FUSING


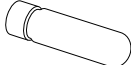
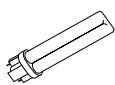



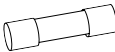
Fusing is available on all fixtures to prevent over current from being transmitted upstream through the fixture as may be possible due to a dead short fault in a ballast. Specify GLR (fast blow) or GMF (slow blow) fusing options. Fuses are not UL listed to break under load and therefore are not a substitute for the in-fixture ballast disconnects supplied standard where required by the National Electric Code.

FIXTURE FLEX AND LEADS

Fixture flex (also called pre-wire or whip) is a UL listed lighting component for recessed fixtures to provide the electrical wiring between the junction box and recessed fixture. Flex may be no longer than 6'. Typical cables use 3/8" flexible conduit and three or four 18 gauge leads. Flex cables are shipped pre-wired to the recessed fixture. Add option designation to catalog number after ballast options. Eg. C388

CABLE	NO. OF WIRES	CABLE DIAMETER	WIRE GAUGE
C Cable	3 3	8 3/8"	8 18 gauge
	4 4	2 1/2"	4 14 gauge
	5 5		2 12 gauge

MISCELLANEOUS FIXTURES AND ELECTRICAL OPTIONS (ADD AS SUFFIX ON END OF CATALOG STRING)

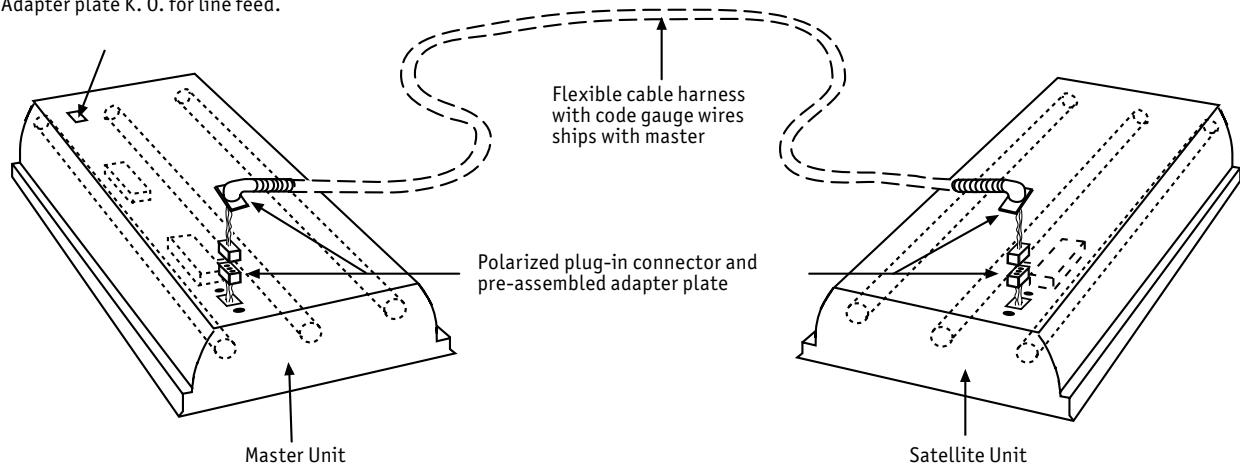
Fixture/Option	Cat. No.	Description	For Use With
	PSW	Pull switch, one circuit, 120V only	Selected strips, surface units and industrials. Contact factory for applications
	PSWD	Pull switch, wired to the downlight circuit on a two circuit unit, 120V only	
	4PSW	Four-way pull switch for two circuit, two lamp unit, 120V only	
	NL	Medium base lampholder for 15W, 25W, 40W, or 60W T10 lamp. Lamp not included. 120V only	AWN, SM units
	PL7	Fluorescent Night Light for 7W, T-4, G23 lamp	4PS, SM, and WAL series
	PL9	Fluorescent Night Light for 9W, T-4, G23 lamp	
	PL13	Fluorescent Night Light for 13W, T-4, GX23 lamp	
		Lamp not included. PL ballast will default to fixture voltage unless specified	
	GCO	Grounded convenience outlet (120V only)	WPM, WM, WAL, UCS and UC Standard on SA, W
	C6P15_	6' Cord and Straight Blade Plug NEMA 5-15P, 15A (Add Voltage: 1 = 120, 2 = 277)	All industrial fixtures
	C6TL15_	6' Cord and Twist-Lock™ Plug NEMA L5-15P, 15A (Add Voltage: 1 = 120, 2 = 277)	
	C6TL20_	6' Cord and Twist-Lock™ Plug NEMA L5-20P, 20A (Add Voltage: 1 = 120, 2 = 277)	
	F3C_	3-Conductor feed cord, 18ga stranded wire (Add length needed: 5 = 5', 10 = 10', or 15 = 15')	All industrial fixtures
	F4C_	4-Conductor feed cord, 18ga stranded wire (Add length needed: 5 = 5', 10 = 10', or 15 = 15')	
	GLR	Fast blow fuse, fuse amps based on fixture ordered	All fixtures

Wiring Options

Master/Satellite Wiring Harness

DETAIL FOR 2' x 4' 3-LAMP LUMINAIRES

Adapter plate K. O. for line feed.

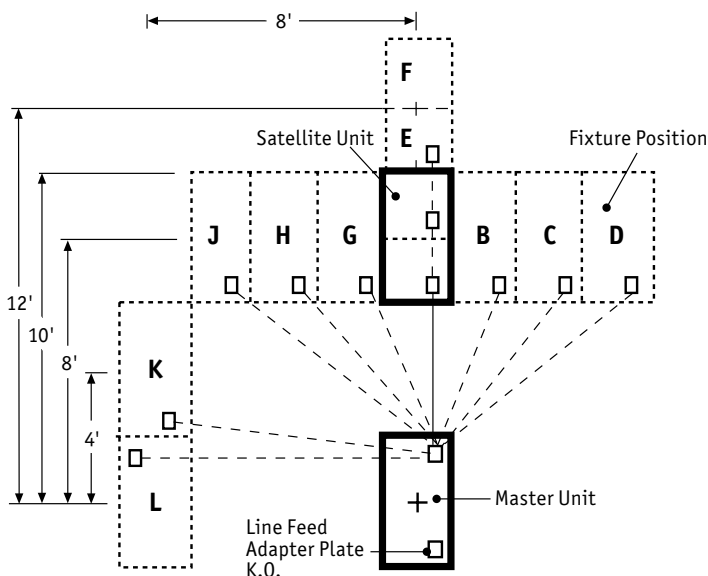


Ballast	Master	Satellite
E, EP	(2) 2-Lamp	(1) 2-Lamp
24E, 24EP	(1) 2-Lamp + (1) 4-Lamp	None

All wired for inboard-outboard

- Master/satellite units bear appropriate UL labels.
- Single units must be ordered to fill odd number layouts.
- Harness may be ordered with any Columbia Lighting 3-Lamp recessed luminaires.
- In master/satellite pairs requiring emergency inverters, UL requires that the inverter be located in the master and power lamps in the master.
- Many programmed start ballasts including all dimming and step dimming ballasts are not suitable for master/satellite applications due to lamp lead length restrictions. See ballast vendor technical data for more information.
- Available on most recessed fixtures. Not available on M46, WT, or AC series.

LAYOUT OPTIONS



Position	Minimum Length Harness Required
A	6'
B	7'
C	8'
D	9'
E	8'
F	10'
G	7'
H	7'
J	8'
K	9'
L	9'
Harness length must be specified on order.	

Caution: Some electronic ballasts can only be wired with harnesses less than 11' or are not suitable for remote mounting. Consult with ballast manufacturer before specifying.

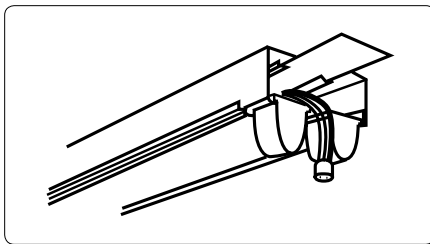
Wiring Options

Branch Circuits

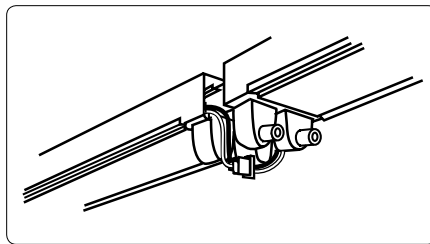
FEATURES

Plug-On Branch Circuit Wiring System features complete branch circuit wiring. You supply the feeder; Plug-On does the rest. The system will handle all popular voltage/phase combinations – 2 or 3 wire, 120V, 277V, or 240V, and 3-phase, 4 wire 120/208V or 277/480V-20 amp rating. It is UL listed and combines the following features:

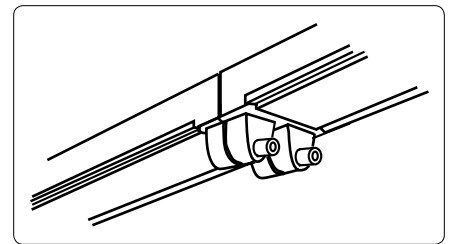
- Available on all continuous row surface mounted fixtures for up to 20 amp circuit runs. Supplied as single or multiple circuit with these fixtures: Surface (PT, AW), Strips (CS, CN, K, LB, KT, CHW, SS), Industrials (KL, CSR).
- Can be arranged in any circuit control for single circuit (BC1) or alternating 2 (BC2A, BC2B) or 3 circuit (BC3A, BC3B, BC3C) configurations.
- May be used with any conventional hanging method – chain, Zip-Tee, slide clamp, stem, or stud.
- Eliminates critical fit or lineup of adjacent fixtures.
- Complete, ready for connection as shipped – no separate parts to misplace. Connectors snap-lock for positive mechanical connection and are color coded for instant identification.
- Carton and channel marked for ballast circuit identity – aids installation, distribution, and maintenance.
- Free factory consulting on coordination of order is recommended to assure proper application.



Mount fixture in any economical, familiar manner.



Make electrical connection at same time as mounting next fixture. No need to come back. Power must be off when making connection.



Add lamps and move on to next fixture.

Catalog Number	-Suffix	Description
1 Circuit: 120V-277V (2 Wire)	-BC1	Ballasts connected to black/white wires
2 Circuit: 120V/240V or 120-277V (3 Wire)	-BC2A	Ballasts connected to black/white wires
	-BC2B	Ballasts connected to red/white wires
3 Circuit: 3 Phase 120V/208V or 277V/480V (4 Wire)	-BC3A	Ballasts connected to black/white wires
	-BC3B	Ballasts connected to red/white wires
	-BC3C	Ballasts connected to blue/white wires
3 Circuit with Ground (4 Wire)	-BC3AG	Ballasts connected to black/white wires
	-BC3BG	Ballasts connected to red/white wires
	-BC3CG	Ballasts connected to blue/white wires
4 Circuit with Ground (5 Wire)	-BC4AG	Ballasts connected to black/white wires
	-BC4BG	Ballasts connected to red/white wires
	-BC4CG	Ballasts connected to blue/white wires
	-BC4DG	Ballasts connected to yellow/white wires

Example: For 3-phase 277/480 volt supermarket lighting job, using CS8-232-EU fixtures, with fixtures to be connected alternately to A-B-C phases through the store, order: CS8-232-EU-BC3A – 1/3 of fixtures
 CS8-232-EU-BC3B – 1/3 of fixtures
 CS8-232-EU-BC3C – 1/3 of fixtures

Lamp and Packaging Options

LAMP OPTIONS

Many fixtures can be ordered with lamps pre-installed. Some fixture designs are not available pre-lamped because there is no installation or shipping advantage. Lamp options listed below provide the factory's choice of reputable vendors. Insert lamp option after ballast voltage designation in fixture catalog number. NFO and reduced wattage designations provide lamps meeting applicable NEMA Premium and CEE listing criteria.

Color Rendering Index (CRI) refers to how accurately the lamps phosphor blend reproduces colors compared with a natural source (sunlight). Color temperature refers to how warm (3000°K) or cool (4100°K) the light appears. Candlelight represents an extreme warm (reddish) temperature while sunlight represents an extreme cool (blue-white) temperature.

Please specify vendor's catalog number if a specific vendor, series or lamp feature is required. Reduced wattage lamps may not be suitable for dimming or cold temperature applications. Consult vendor's specification.

LAMP PROFILE (F = FLUORESCENT)	COLOR RENDERING INDEX	COLOR TEMPERATURE	LAMP SHAPE
F0 T8 (full wattage) F030 4' T8 reduced wattage (30W) ¹ F028 4' T8 reduced wattage (28W) ¹ F025 4' T8 reduced wattage (25W) ¹ NFO 4' T8, NEMA Premium Full wattage (32W) F5 T5 or T5HO FTT Twin Tube	7 Minimum 75 8 Minimum 82 (T8) or 85 (T5) (Required for NEMA Premium/CEE)	30 3000°K 35 3500°K 41 4100°K	Blank Straight or Twin Tube U6 U-Lamp 6" Leg Spacing U1 U-Lamp 1½" Leg Spacing

PACKAGING OPTIONS

Products are shipped in individual cartons standard. In fixtures ordered in pallet quantities or greater specify choice of job packaging to ease fixture handling and reduce job site waste disposal. Option available on lensed and parabolic troffers.

- JP** Job pack. Fixtures less cartons, with protective outer packaging and stretch-wrapped to standard 4-way pallet.
- PN** Job pack narrow, less cartons, with protected outer packaging and stretch-wrapped to 4-way pallet no greater than 24" inches wide.
- PWCS** Cartoned, stretch-wrapped to standard pallet.
- PNCS** Cartoned, stretch-wrapped to narrow pallet.
- PW** Less cartons, stretch-wrapped to wide pallet.

¹Not recommended for use with step or full dimming.

FLICKERING LAMPS

1. New lamps need to be seasoned.

In the case of dimming ballasts, most manufacturers recommend 100 burning hours before dimming.

2. Line voltage varies.

Check to see that line voltage current is constant.

3. Air movement across lamp.

Check to make sure that HVAC is not directed across lamps, lowering temperature of lamps.

CYCLING OF BALLAST

1. Line voltage varies.

Check line voltage to make sure constant power is supplied.

2. Replace lamps to verify ballast problem.

3. Insulation covering fixtures.

Check to make sure that fixtures are not covered. Excess heat will cause thermal protector to cycle.

4. Fixtures are mounted on ceiling directly.

Verify that fixtures are designed to be mounted directly to ceiling. If not, an air space must be provided between ceiling and fixtures.

SLOW STARTING

1. Programmed Start ballast versus Instant Start ballast.

Programmed Start ballasts pre-heat the cathode and then ignite lamps. Instant Start ballasts use a high voltage surge to start lamps instantly. Programmed Start ballasts are slower starting but easier on lamps due to pre-heating of cathodes.

2. Line voltage too low.

Check line for correct voltage as required by ballast. (See "Fixtures Do Not Light")

3. Incorrect lamp.

Make sure lamps are compatible with ballast.

4. Low ambient temperatures.

Is temperature above 50°? Some ballasts require higher starting temperatures to start properly.

FIXTURES DO NOT LIGHT

1. Is the power on?

2. Lamp compatibility.

Cross check lamps against ballast designation listed on ballast case. Some energy saving lamps and ballasts are not compatible.

3. Incorrect or loose wiring.

Disconnect power and check all wiring connections.

4. Check fuses if supplied.

Disconnect power before removing. Check with ohmmeter or test equipment. Reinstall and energize.

5. Line voltage low.

Voltage range for 120 volts is 112 minimum and 125 maximum. Voltage range for 277 volts is 255 minimum and 289 maximum.

6. Low ambient temperature.

Fluorescent lamps are hard to start at temperatures below 50°F.

7. Are lamps properly engaged in the lampholders?

Check to make sure that pins are properly engaged.

NOISE

1. Are all components secure?

Check ballast mounting and look for loose fixture components.

2. Is there furniture in the space?

Empty rooms magnify sound, emphasizing the normal operating hum. The sound which seemed so loud in an empty space will normally disappear once the room has been filled with furniture, partitions, and equipment.

3. Is the ballast functioning correctly?

Replace ballast if necessary.

4. What is the sound rating of the ballast?

Verify the ballast's proper sound rating for the environment. If the sound rating is inappropriate, remote mount the ballast or replace it with a ballast with the appropriate sound rating.

Columbia
LIGHTING

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