

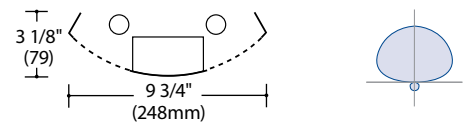
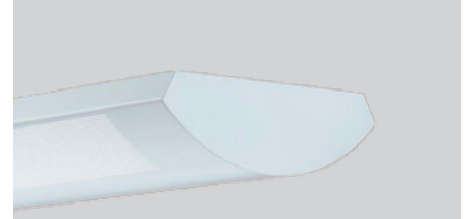
9800 Perforated Pendant Indirect

Fixture Type:

Project Name:

Ordering Guide

Feature	Code	Options	Description
Series		98	9800
Housing Style		PF	Perforated
Mounting		P	Pendant
Fixture distribution		I	Indirect
Row length (in feet)		—'	Enter in foot increments. Note fixture lengths below.
Max length in row		04 08 12	4', 1219mm 8', 2438mm 12', 3658mm
Finish/Color		C2 C6 CC	Textured, Matte White (Default) Textured, Camera Black Custom Color (Textured Only)
Lamping		2T5 3T5 4T5 2T5HO 3T5HO 4T5HO 2T8 3T8 4T8	2-Light T5 Lamping 3-Light T5 Lamping 4-Light T5 Lamping 2-Light T5HO Lamping 3-Light T5HO Lamping 4-Light T5HO Lamping 2-Light T8 Lamping 3-Light T8 Lamping 4-Light T8 Lamping
Ballast (non-dimming T5/HO)		NPN	Electronic, program-start
Ballast (non-dimming T8)		NIN NPN NIL NPL NIH NPH	Electronic Electronic, program-start Electronic, low-wattage Electronic, low-wattage, program-start Electronic, high light output Electronic, high light output, program-start
Ballast (dimming)		010V LVD DALI LLS	0-10V Dimming Line Voltage Dimming Dali System Light Level Switching 50/100 See <i>Ballast</i> section for additional dimming ballast options
Circuiting		1C 2C AC	1 Circuit 2 Circuit-In Board/ Out Board Alternate Lamp Compart Switch
Voltage		UNV 120 277 347	Universal Voltage 120 Volt 277 Volt 347 Volt
Suspension kit		FA1 FA2 FA3 FAX P6S SCP6 EQP6	Suspension Kit, 51" Suspension Kit, 87" Suspension Kit, 219" Suspension Kit, SPECIFY LENGTH Standard Stem Assy Sloped Ceiling, P6 Stem Assy Earthquake, P6 Stem Assy * Add suffix /V to replace all 2" non-feed canopy covers with 5" canopy covers. FA1/V = 51" suspension kit w/ 5" canopies; Stems (where applicable), canopies, and feed cord are supplied in white regardless of fixture color unless otherwise specified



Key Features

- Arcuate form factor
- Steel housing

9800 Perforated Pendant Indirect

Ordering Guide (continued)

Optional Features	Code	Options	Description
Nightlight		_NL	Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row
Emergency		_EF	Emergency Battery Required. Enter quantity. 2EF = 2 emergency batteries/row
Automatic Transfer Switch		_ATS	Automatic Transfer Switch Required. Enter quantity. 2ATS = 2 automatic transfer switches/row
Thru-wiring		W1 W2 W3	No Thru Wire Provide Normal and Emergency Thru Wiring* Provide Normal Thru Wiring Only *Only applicable when specified with emergency
End Caps		ECSS	End Cap, Shelf Style
High Performance Reflector		HPR	High Performance Reflector
Daylight Sensor		_SD2	Daylight Sensor Required. Enter quantity. 2SD2 = daylight sensors/row
Data connection		_DCF	Data connection cables required. Enter quantity. 2DCF = 2 cables/row
Pattern boxes		C90 C135 TEE CROSS	Non-lighted Corner connector, 90 Non-lighted Corner connector, 135 Pattern Box, "T" Shape Pattern Box, "X" Shape
Covers		L1	Lens Kit, Dust Cover
Fuse		F	Fuse
T-Bar Clips		CB1 CB2 CB3	T-bar clip - 15/16" T-bar clip - 9/16" T-bar clip - 9/16" SS *To be ordered with Luminaire Canopy Box, see page 4 for details

9800 Perforated Pendant Indirect

Details

Construction:

Housing-steel

End caps-flat, steel.

End caps-die-cast. Flat-style is standard. "Shelf-style" (ECSS) available as option.

Mounting:

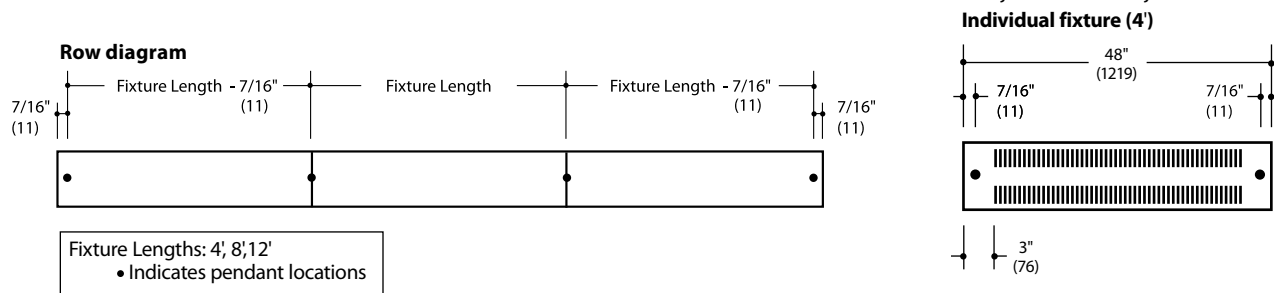
Provided with P6S (5/8" dia., 3/8" NPT) stems, or 3/32" diameter aircraft cable assemblies. Stems with 0-45° swivel joints are available. Aircraft cable is provided at fixed lengths (with 1/4-20 stud adjustment for leveling purposes), or may be ordered with "field-adjustable" fittings that allow unlimited vertical positioning and adjustment. See Stems & Aircraft Cables sheet for further details.

Stem lengths

P6S stems are available in eight standard lengths from 6" to 36" (nominal). The actual ceiling-to-top-of-fixture dimensions are: 5", 8", 11", 14", 17", 23", 27", and 35". Refer to Standard Length Stem Assemblies sheet for dimensional information on sloped ceiling (SC/P6) and earthquake (EQ/P6) stem assemblies.

Suspension mounting locations

Pendant locations at ends of rows or individual fixtures are 7/16" from fixture end. Pendant locations for in-row joints are at the joint.



Distribution:

100/0 (nominal) indirect/direct.

Finish/Color:

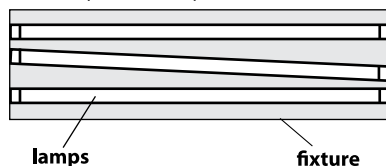
Visit www.litecontrol.com/finishes for details.

Lamping:

Available in two or three-lamp T8 cross-sections. In one and three-lamp configurations, center lamp is diagonally-positioned to provide symmetrical distribution.

Top view: 1-lamp and 3-lamp T8 lamp position

Center lamp is inserted *diagonally* on 1-lamp and 3-lamp T8 fixtures



Cross-section lamping



Ballast:

Electronic Ballast (ELB), high power factor, thermally protected Class P, Sound Rated A, less than 10% THD, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

Additional Dimming Ballast Options:

LE30	Lutron EcoSystem-3 Wire	(Normal Ballast Factor)
LEH0	Lutron EcoSystem-H Series	(Normal Ballast Factor)
LEH7	Lutron EcoSystem-H Series	(High Ballast Factor)
LEI0	Lutron EcoSystem-Intelligent	(Normal Ballast Factor)
LH3D	Lutron HiLume 3D-3 Wire	(Normal Ballast Factor)
LH37	Lutron HiLume 3D-3 Wire	(High Ballast Factor)
LHHL	Lutron HiLume-Traditional	(Normal Ballast Factor)
LHID	Lutron HiLume-3D Intelligent	(Normal Ballast Factor)
LHI7	Lutron HiLume-3D Intelligent	(High Ballast Factor)

Circuiting:

1C (1 Circuit) Fixture wired for a single circuit.

2C (2 Circuit) Inline lamps are switched separately.

AC (alternate lamp compartment switching) Fixtures wired so every other lamp section can be separately switched/dimmed

AF (alternate fixture switching) Fixtures wired so every other fixture segment can be separately switched/dimmed

Suspension Kit:

3/64" diameter field-adjustable aircraft cable. Ship separately. Suspension required at every row joint.

Nightlight:

See separate LC-Nightlight spec sheet for additional details.

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Details (continued)

Emergency:

Battery-powered ballast from a listed manufacturer will operate one lamp for 90 minutes.

Thru wiring:

See separate LC-Thruwire spec sheet for additional details.

High Performance Reflector:

Die-formed specular aluminum reflector

Sensors:

Daylight sensor only (Wattstopper part# FD301). Installs between diffusers. See separate LC-Controls spec sheet for additional details.

Data Connection:

Lutron EcoSystem data feed

Pattern Boxes:

Steel.

Fuse:

Slow or fast blow; determined by Litecontrol.

Canopy covers:

Non-feed-2" diameter (unless 5" non-feed cover is specified). Feed-5" diameter.

Feed cord:

4-wire, 7 amps max; 5-wire, 5 amps max.

Ratings:

UL listed for damp locations. IBEW. AF of L.

Warranty:

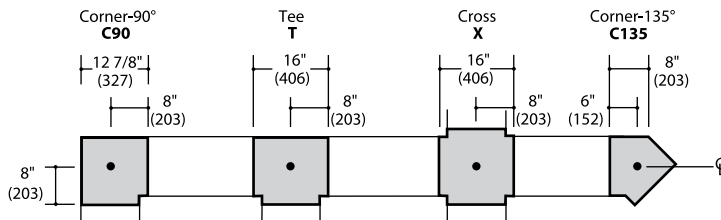
1 year
see www.litecontrol.com for details

Luminaire Canopy Box:

See separate [LC instructions](#) for additional details
*For use with Grid Ceilings only

T-Bar Clips:

See separate [LC instructions](#) for additional details
*For use with Grid Ceilings only



9800 Perforated Pendant Indirect

Photometry

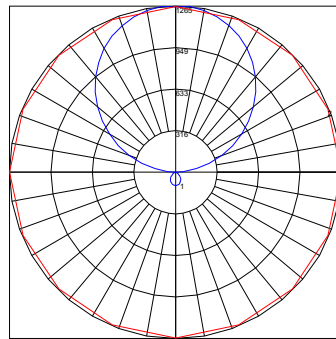
Fixture: 98-PF-P-I-24T8-ELB

Lamping: 2-T8

Efficiency: 84%

Distribution: 94/6

Test report: 26721000



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
90-180°	4547.84	78.40	93.50
0-90°	314.08	5.40	6.50
0-180°	4861.92	83.80	100.00

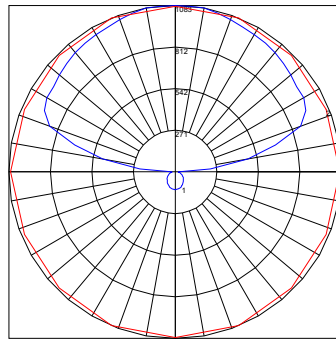
Fixture: 98-PF-P-I-24T8-HPR-ELB

Lamping: 2-T8

Efficiency: 80%

Distribution: 93/7

Test report: 29821000



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
90-180°	4321.34	74.50	93.20
0-90°	313.15	5.40	6.80
0-180°	4634.49	79.90	100.00

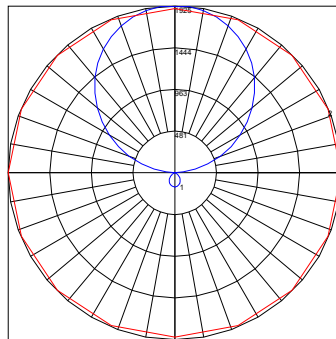
Fixture: 98-PF-P-I-34T8-ELB

Lamping: 3-T8

Efficiency: 84%

Distribution: 94/6

Test report: 27631000



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
90-180°	6850.65	78.70	93.80
0-90°	454.37	5.20	6.20
0-180°	7305.01	84.00	100.00

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Photometry (continued)

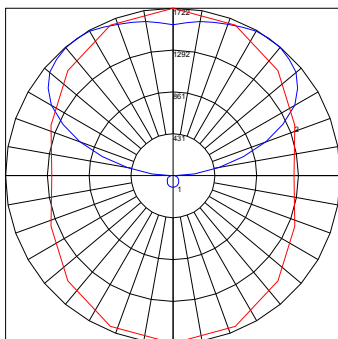
Fixture: 98-PF-P-I-24T8-HPR-ELB

Lamping: 3-T8

Efficiency: 77%

Distribution: 95/5

Test report: 29831000



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
90-180°	6386.51	73.40	95.10
0-90°	327.15	3.80	4.90
0-180°	6713.66	77.20	100.00

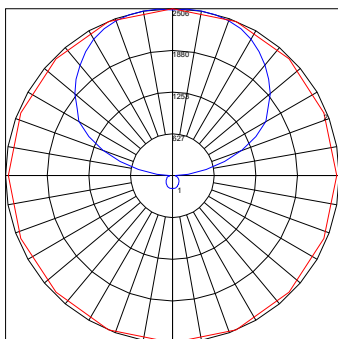
Fixture: 98-P-F-P-I-44T8-ELB

Lamping: 4-T8

Efficiency: 77%

Distribution: 94/6

Test report: 27641000



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
90-180°	8429.99	72.70	93.90
0-90°	547.66	4.70	6.10
0-180°	8977.65	77.40	100.00