

4L-P-ID

MOD™ 4 LED PENDANT INDIRECT/DIRECT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 2 SDCM color consistency
- End cap design eliminates visible diffuser seams/gaps
- TriGain® Technology provides superior color quality without compromising efficacy. The 4L-P-ID series delivers 90 CRI at 139 LPW
- Earthgrain Series by Litecontrol feature a wide selection of wood grain finish options. Choose from standard Maple, Oak, or Cherry or select a custom wood finish



CONTROLS TECHNOLOGY



SERVICE PROGRAM



SPECIFICATIONS

CONSTRUCTION

- Housing constructed from extruded aluminum
- End caps constructed from die cast aluminum with magnetic interface
- End caps overlap diffuser at each fixture end to eliminate gaps and LED visibility
- Dust cover constructed from clear acrylic lens with magnetic interface

OPTICS

- 2 SDCM color consistency, 90 CRI
- SOF: Soft diffuse acrylic lens
- REG: 1/2" regressed softglo lens with painted steel inserts. Output multiplier (.77)
- BWO: White blade baffle with softglo lens overlay. Output multiplier (.70)
- ASYM: Asymmetric Highly transmissive diffuse acrylic lens with linear prisms
- BAT: "Batwing" distribution created from highly transmissive diffuse acrylic lens with linear prisms
- DRP: 1/2" protruding soft diffuse "drop" lens
- Low peak angle with diffuser (LAPD) used to soften light appearance on close to wall/ceiling applications. Output multiplier (.9, 15° LPA loss)

INSTALLATION

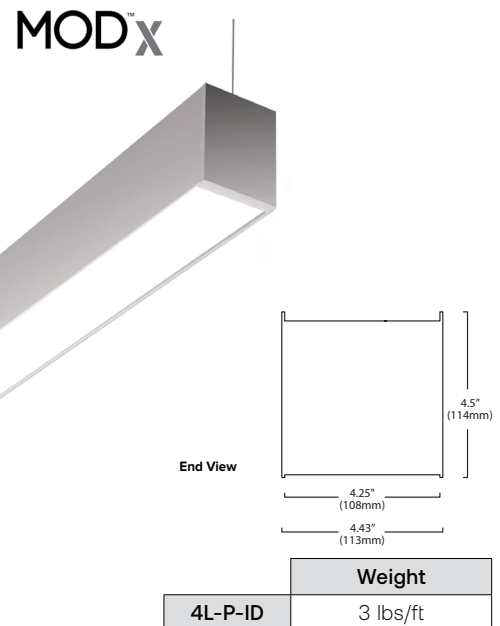
- Suspension required at every row joint. 3/64" diameter field-adjustable aircraft cables, ships separately
- Low profile cable gripper limits visibility while providing maximum horizontal balance adjustment
- Pendant locations at ends of rows (or individual fixtures) are 1/2" from fixture ends

INSTALLATION (CONTINUED)

- Pendant attachment allows for horizontal adjustment to "fine-tune" side-to-side leveling
- Illuminated system connectors in L (90°, 120°, 135°), X, and T shape configurations. One piece construction, ready to install, with diffusers that match adjoining fixtures. Corner system connectors must be used to form patterns. The length of each outside or inside illuminated corner is 12"

ELECTRICAL

- Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification. Indirect and direct hemispheres can be independently specified
- LED boards and drivers can be accessed and removed from fixture, while installed
- Entire LED module can be removed and replaced
- 1C (1 Circuit) Fixture wired for a single circuit
- 2C (2 Circuit uplight/downlight) Uplight and downlight switched/dimmed separately. Two power feeds required
- Non-feed: 2" diameter canopy covers provided (unless 5" non-feed cover is specified)
- Feed Cord: 4-wire, 7 amps max; 5-wire, 5 amps max.
- Emergency Battery: 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4'+ fixtures
- Current's patented TriGain® phosphor delivers 90 CRI color quality at 80 CRI efficacy



CONTROLS

- Sensors install between diffusers
- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- SpectraSync™ Color Tuning Technology: Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants

CERTIFICATIONS

- CSA listed for damp location
- IBEW
- AF of L
- UL924
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See [Buy America\(n\) Solutions](http://BuyAmerica(n)Solutions)
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant

WARRANTY

- LED boards - 5 years
- LED drivers (standard) - 5 years
- LED drivers (Lutron) - 3 years

KEY DATA	
Lumen Range Per Foot	I: 300-1350 D: 300-1250
Wattage Range Per Foot	4.6-21.9
Efficacy Range (LPW)	112-139
Rated Life (Hours)	L90: >60,000

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MOD™ 4 LED PENDANT INDIRECT/DIRECT

ORDERING GUIDE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Gray Highlighting = 10 Day Quick Ship Program



Example: 4L-P-ID-STD-8-08-SOF-C1-27K9-I030-D030-D01-1C-UNV-FA1

CATALOG #

4L	Series	Mounting	Fixture Distribution	Indirect Optical Distribution	Row Length (In Feet)	Max Length In Row	Direct Optical Distribution
4L MOD	MOD	P Pendant	ID Indirect/Direct IAD Indirect/ Asymmetric Direct	STD Standard LPA Low Peak Angle LPAD Low Peak Angle with Diffuser	—' Enter in foot increments	02 2', 609mm 03 3', 914mm 04 4', 1219mm 05 5', 1524mm 06 6', 1829mm 08 8', 2438mm	SOF Soft Diffuse Lens, Lambertian REG Regressed Diffuse Lens ¹ BWO Blade Baffle with Overlay ¹ ASYM Asymmetric Diffuse Lens ^{1,2} BAT Batwing Lens DRP Drop Lens ^{1,3}

Finish/Color ⁴	Color Temperature	Indirect Output/ft ⁶	Direct Output/ft ⁶	Driver	Circuiting
C1 Matte White (Default)	27K9 2700K, 90 CRI	I030 300 (min) ⁷	D030 300 (min) ⁷	D01 1% Dimming, 0–10V	1C 1 Circuit
C2 Textured Matte White	30K9 3000K, 90 CRI	to	to	D00 1% Dim-to-Off, 0–10V	2C 2 Circuit - Uplighting / Downlight
C3 Light Silver	35K9 3500K, 90 CRI	I135 1350 (max)	D125 1250 (max)	D05 SpectraSync 5% Dimming, 0–10V ⁸	
C4 Machined Aluminum	40K9 4000K, 90 CRI			DS1 1% Dimming w/ Soft Start, 0–10V	
C5 Carbon Black	50K9 5000K, 90 CRI ³			DS0 1% Dim-to-Off w/ Soft Start, 0–10V	
C6 Textured Camera Black	2230TD 2200K–3000K SpectraSync™ Dim-to-Warm ^{3,5}			LEC Hi-lume 1% Ecosystem LED Driver ³	
MPL Maple ³	2765T 2700K–6500K SpectraSync™ Tunable White ^{3,5}			DALI DALI ³	
OAK Oak ³				DALIP Powered by DALI (2.0) ³	
CHR Cherry ³				NDM Non-Dimming	
CC Custom Color					

OPTIONAL

Voltage	Suspension Kit ¹⁰	Nightlight	Emergency	Thru-wiring	Patterns ^{3,13}	Dust Cover	T-Bar Clips
UNV Universal Voltage (120V through 277V)	FA1 Suspension Kit, 51"	NL Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	EF 10W Emergency Battery Pack. Enter quantity. 2EF = 2 emergency batteries/row. (CEC Title 20 Compliant) ¹¹	W1 No Thru Wire W2 Provide Normal and Emergency/ Nightlight Thru Wiring ¹² W3 Provide Normal Thru Wiring Only	C90L Illuminated 90° L C120L Illuminated 120° L C135L Illuminated 135° L C90T Illuminated T C90X Illuminated X C__L Illuminated L 75°–179° in 1° increment (Ex: C77L)	L1 Clear Acrylic Dust Cover Lens	CB1 T-bar clip - 15/16" CB2 T-bar clip - 9/16" CB3 T-bar clip - 9/16" SS
347 347 Volt ^{3,9}	FA2 Suspension Kit, 87" FA3 Suspension Kit, 219" FA4 Suspension Kit, 363"						

Notes:

- Not Available with Patterns.
- Must be ordered with IAD.
- Additional lead time may be applicable. Contact factory.
- Visit currentlighting.com/litecontrol for details.
- Must be ordered with D05 Driver option; excludes 2' lengths and patterns.
- Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
- D030 not available in 2'.
- Must be ordered with 2230TD or 2765T option.
- Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEC) Dimming Drivers.
- Add suffix /V to replace all 2" non-feed canopy covers with 5" canopy covers.
FA1/V = 51" suspension kit w/ 5" canopies; canopies and feed cord are supplied in white regardless of fixture color unless otherwise specified.
- EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4" fixtures.
- Only applicable when specified with Emergency/Nightlight.
- Contact Factory for pattern configurations. Approval drawings required.

NX In-Fixture Control Options:

- Not available for row mounting. Only available with 0–10V Driver options.
Contact factory for Length restrictions.
- Refer to NX Integrated Controls Reference Table for Functionality of Options.

Control Options³

NX Networked – Wired

- NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor^{14,15}
- NXERM** NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming^{14,15}

NX Networked – Wireless

- NXWRM** NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming^{14,15}
- NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor^{14,15}

Sensors

- SD1** Daylight Sensor Required. Enter quantity. 2SD1 = 2 daylight sensors/row
- SO1** Occupancy Sensor Required. Enter quantity. 2SO1 = 2 occupancy sensors/row

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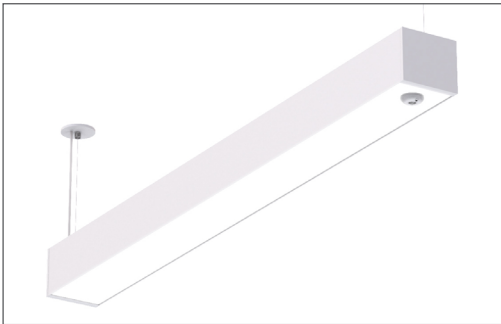
CONTROLS OPTIONS AND FUNCTIONALITY



Control Option Ordering Logic & Description			Control Option Functionality										Control Option Components	
			Sensor	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0–10V Dimming	On/Off Control	Bluetooth® App Programming	Sensor Height		
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	Requires ¹ NXBTC dongle	–		NXDSP
	NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓		Max: 12'	 	NXSMP2-LMI NXDSP
NX Wireless	NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓		Max: 12'		NXSMP2-LMI
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H

¹ NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network

4L-P-ID WITH NXWRM WIRELESS CONTROL OPTION



CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am-7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.



Apple iOS

CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

SpectraSync™ Color Tuning Technology:

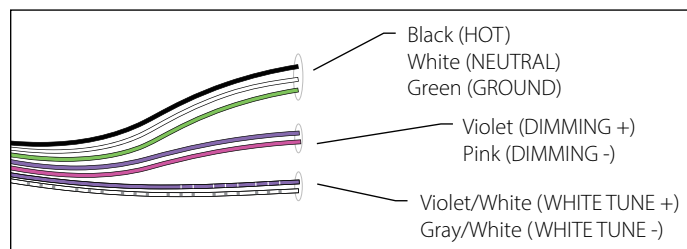
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASync COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Dim to Warm	2200K–3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space
Scheduled White	2700K–6500K	Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being

SpectraSync Tunable White

Available in 2765T (2700K–6500K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming

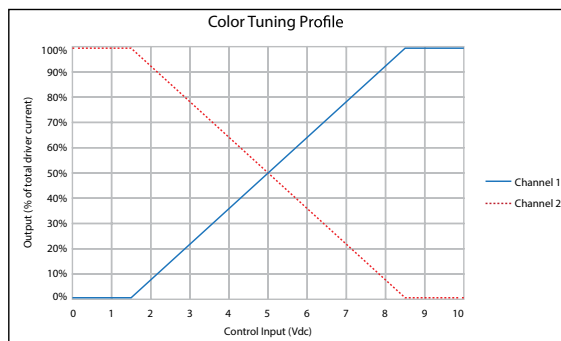


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and gray/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, DVSTV, and NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



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PERFORMANCE DATA TABLE

The table below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required.

Nomenclature	Lumens/Ft	W/Ft	Efficacy
Uplight (STD Distribution)			
I030 (min)	300	2.0	146
I050	500	3.3	152
I075	750	5.0	151
I100	1000	6.8	145
I135 (max)	1350	9.6	141
Uplight (LPA Distribution)			
I030 (min)	300	2.3	131
I050	500	3.7	137
I075	750	5.4	138
I100	1000	7.3	136
I135 (max)	1350	10.0	134
Downlight			
D030 (min)	300	2.5	120
D050	500	4.1	122
D075	750	6.2	120
D125 (max)	1250	10.2	122

(wattage may vary up to 5% from published)

Output Multiplier Table

Photometrics for the MOD Family are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

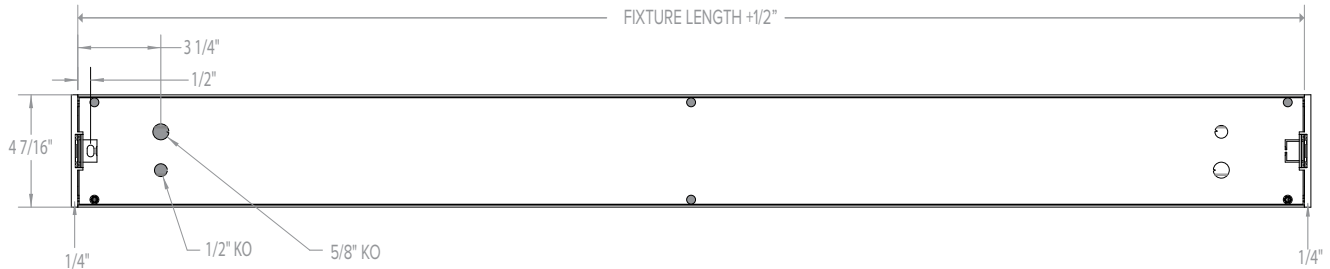
Option	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
SOF	0.89	0.96	1.00	1.00	0.99
REG	0.69	0.74	0.77	0.77	0.76
BWO	0.62	0.67	0.70	0.70	0.69
ASYM	0.89	0.96	1.00	1.00	0.99
BAT	0.89	0.96	1.00	1.00	0.99
DRP	0.89	0.96	1.00	1.00	0.99
LPAD	0.80	0.86	0.90	0.90	0.89

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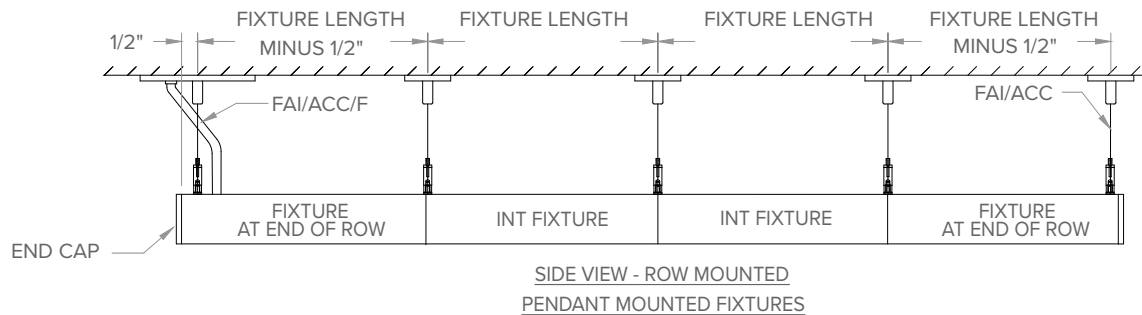
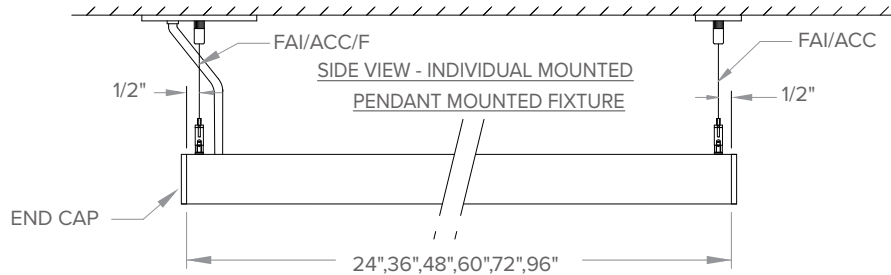
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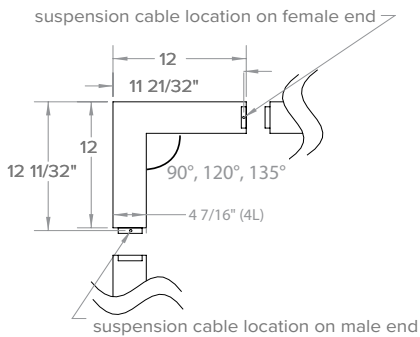
DIMENSIONS



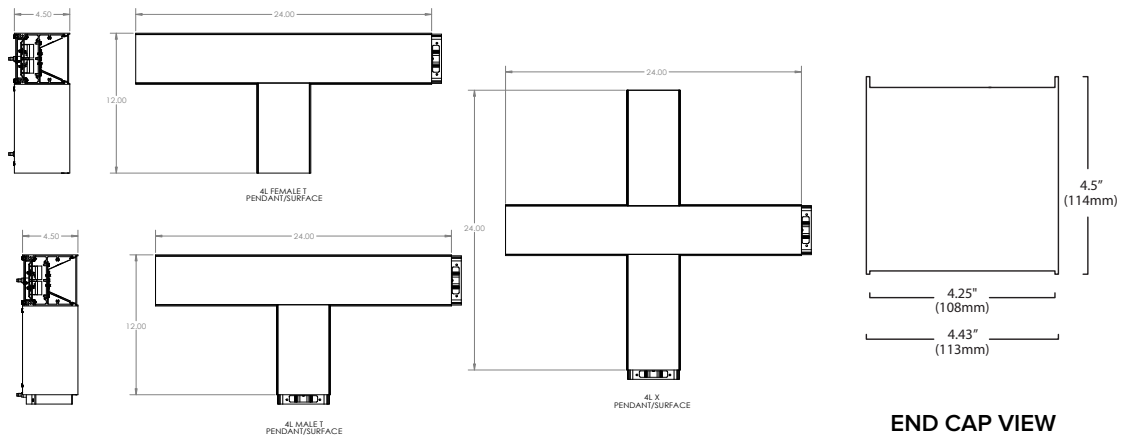
INDIVIDUAL MOUNTING



ROW MOUNTING



PATTERNS



END CAP VIEW

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PHOTOMETRY

4L-P-ID-STD-4-SOF-CX-35K9-I075-D075

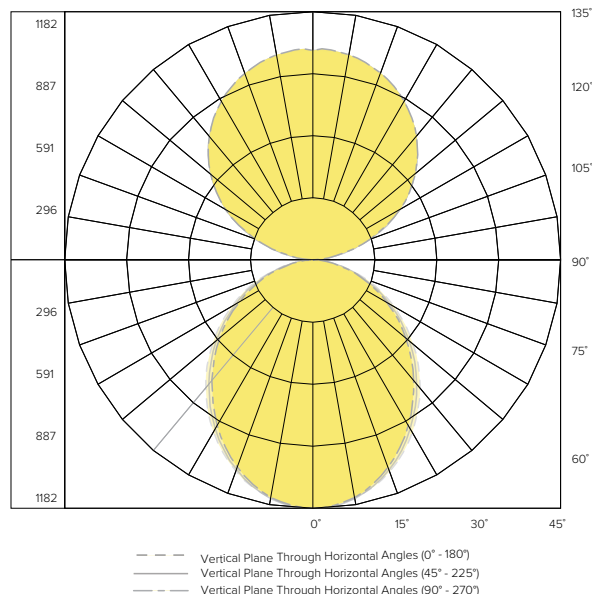
LUMINAIRE DATA

Description	4L Linear Pendant, 3500K
Delivered Lumens	5966
Watts	44.8
Efficacy	133
Mounting	Pendant

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1415.81	23.70
0-60	2405.66	40.30
0-90	2983.53	50.0
0-180	5965.63	100.0

POLAR GRAPH



4L-P-ID-LPA-4-SOF-CX-35K9-I075-D075

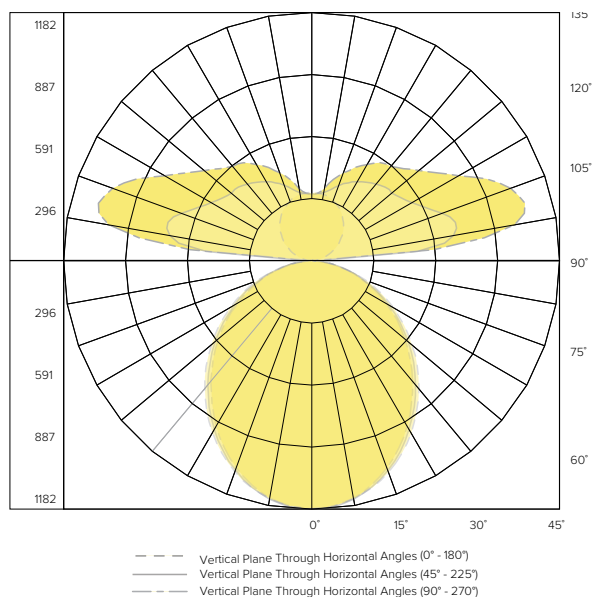
LUMINAIRE DATA

Description	4L Linear Pendant, 3500K
Delivered Lumens	5965
Watts	46.7
Efficacy	128
Mounting	Pendant

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1415.81	23.70
0-60	2405.66	40.30
0-90	2983.53	50.00
0-180	5965.63	100.00

POLAR GRAPH

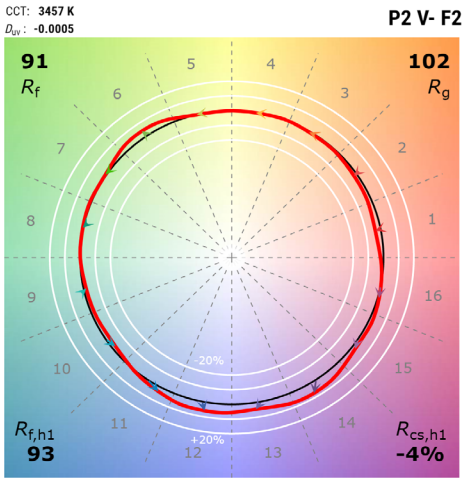


FINISHES



TM-30 DATA

COLOR VECTOR GRAPHIC



*Graphics shown are at 35K
— Reference Illuminant — Test Source

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ADDITIONAL INFORMATION

Driver

D01	100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
D00	Dim-to-Off 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
D05	100%–5% dimming range. Fixture will be wired for low voltage 0–10V dimming control. Only applicable if either 2230TD, 2750T or 2765T is selected.
DS1	Soft-Start 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
DS0	Soft-Start Dim-to-Off 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
LEC	Hi-Lume 1% EcoSystem LED Driver with Soft-On, Fade-to-Black dimming technology.
DALI	DALI compatible.
DALIP	Self-Powered DALI bus (e.g. DEXAL).
NDM	Non-dimming. Fixture will be wired for fixed light output.

Rated Life

Tested in accordance to LM79-2008 & derived from EPA TM-21 calculator

L70: 280,000 (calculated per TM-21 extrapolated curve)

L70: >61,000 (reported per TM-21/LM80 6x's limitation)

L90: 72,000 (calculated per TM-21 extrapolated curve)

L90: >61,000 (reported per TM-21/LM80 6x's limitation)

Rated Life (Driver)

Standard = 100,000 hours

Lutron = 50,000 hours