

# 4L-P-ID

MOD™ 4 LED PENDANT INDIRECT/DIRECT

## 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



## CONTROLS



## 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, 80 or 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 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 corners available in 90°, 120°, 135°. 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"

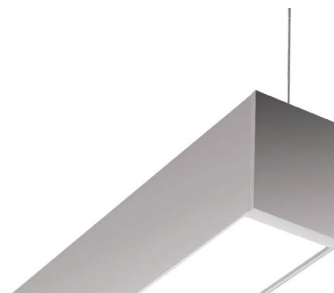
### ELECTRICAL

- 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

### CONTROLS

- Sensors install between diffusers
- NX Distributed Intelligence™: Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enabled emerging applications, such as Hubbell Lighting's SpectraSync™ Color Tuning Technology

MOD™ X



### RELATED PRODUCTS

- [Ø 2L-P-ID](#)  
 [Ø 3L-P-ID](#)  
 [Ø 6L-P-ID](#)

### SERVICE PROGRAMS



### CONTROLS (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

### CERTIFICATIONS

- DLC® (DesignLights Consortium) Qualified - see [www.designlights.org](http://www.designlights.org)
- CSA listed for damp location
- IBEW
- AF of L
- UL924
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 8/14/2020. See [Buy American Solutions](http://Buy American Solutions). Contact factory for configurations including SpectraSync, NX, or sensors.


### WARRANTY

- LED boards - 5 years
- LED drivers (standard) - 5 years
- LED drivers (Lutron) - 3 years
- See [www.litecontrol.com](http://www.litecontrol.com) for details

KEY DATA	
Lumen Range Per Foot	I: 300–1350 D: 300–1250
Wattage Range Per Foot	2.1–9.7
Efficacy Range (LPW)	111–148
Rated Life (Hours)	L70: >61,000 L90: >61,000

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 = Service Program



Click icon for a list of Quick-Ship options

## ORDERING GUIDE

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

CATALOG #

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

Finish/Color <sup>4</sup>	Color Temperature	Indirect Output/ft <sup>6</sup>	Direct Output/ft <sup>6</sup>	Driver	Circuiting
<b>C1</b> Matte White (Default)	<b>27K</b> 2700K <sup>3</sup> <b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>I030</b> 300 (min) <sup>7</sup> to <b>I135</b> 1350 (max)	<b>D030</b> 300 (min) <sup>7</sup> to <b>D125</b> 1250 (max)	<b>D01</b> 1% Dimming, 0-10V <b>D00</b> 1% Dim-to-Off, 0-10V <b>D05</b> SpectraSync 5% Dimming, 0-10V <sup>8</sup> <b>DS1</b> 1% Dimming w/ Soft Start, 0-10V <b>DS0</b> 1% Dim-to-Off w/ Soft Start, 0-10V <b>LEC</b> Hi-Lume 1% Ecosystem LED Driver <b>DALI</b> DALI <sup>3</sup> <b>DALIP</b> Powered by DALI (2.0) <sup>3</sup> <b>NDM</b> Non-Dimming	<b>1C</b> 1 Circuit <b>2C</b> 2 Circuit - Uplighting / Downlight
<b>C2</b> Textured Matte White	<b>50K</b> 5000K <sup>3</sup>				
<b>C3</b> Light Silver	<b>27K9</b> 2700K, 90 CRI <b>30K9</b> 3000K, 90 CRI <b>35K9</b> 3500K, 90 CRI <b>40K9</b> 4000K, 90 CRI				
<b>C4</b> Machined Aluminum	<b>50K9</b> 5000K, 90 CRI <sup>3</sup>				
<b>C5</b> Carbon Black	<b>2230TD</b> 2200K-3000K SpectraSync™ Dim-to-Warm <sup>5</sup> <b>2750T</b> 2700K-5000K SpectraSync™ Tunable White <sup>5</sup> <b>2765T</b> 2700K-6500K SpectraSync™ Tunable White <sup>5</sup>				
<b>C6</b> Textured Camera Black					
<b>CC</b> Custom Color					

### OPTIONAL

Voltage	Suspension Kit <sup>10</sup>	Nightlight	Emergency	Thru-wiring	Patterns <sup>3,13</sup>	Dust Cover	T-Bar Clips
<b>UNV</b> Universal Voltage (120V through 277V)	<b>FA1</b> Suspension Kit, 51" <b>FA2</b> Suspension Kit, 87" <b>FA3</b> Suspension Kit, 219" <b>FA4</b> Suspension Kit, 363"	<b>NL</b> Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	<b>EF</b> 10W Emergency Battery Pack. Enter quantity. 2EF = 2 emergency batteries/row. <sup>11</sup>	<b>W1</b> No Thru Wire <b>W2</b> Provide Normal and Emergency/ Nightlight Thru Wiring <sup>12</sup> <b>W3</b> Provide Normal Thru Wiring Only	<b>C90L</b> Illuminated 90° Corner <b>C120L</b> Illuminated 120° Corner <b>C135L</b> Illuminated 135° Corner	<b>L1</b> Clear Acrylic Dust Cover Lens	<b>CB1</b> T-bar clip - 15/16" <b>CB2</b> T-bar clip - 9/16" <b>CB3</b> T-bar clip - 9/16" SS
<b>347</b> 347 Volt <sup>3,9</sup>							

### Control Options<sup>3</sup>

#### NX Standalone

**NXS** NX, PIR BT Occupancy/Daylight Sensor, Slide Mount<sup>14, 15, 16</sup>

#### NX Networked – Wired

**NXE** NX, Dual SmartPORTS<sup>14, 15</sup>

**NXES** NX, PIR BT Occupancy/Daylight Sensor, Slide Mount, Dual SmartPORTS<sup>14, 15</sup>

#### NX Networked – Wireless

**NXSW** NX Wireless, PIR BT Occupancy/Daylight Sensor<sup>14, 15, 16</sup>

**NXWE** NX Wireless Wireless Enabled<sup>14, 15</sup>

#### NX Networked – Wired/Wireless

**NXSWD** NX Wireless, PIR BT Occupancy/Daylight Sensor, Dual SmartPORTS<sup>14, 15, 16</sup>

**NXWD** NX Wireless, Dual SmartPORTS<sup>14, 15</sup>

#### Sensors

**SD1** Daylight Sensor Required. Enter quantity. 2SD1 = 2 daylight sensors/row

**SO1** Occupancy Sensor Required. Enter quantity. 2SO1 = 2 occupancy sensors/row

#### Notes:

- Not Available with Patterns.
- Must be ordered with IAD.
- Additional lead time may be applicable. Contact factory.
- Visit [www.litecontrol.com/finishes](http://www.litecontrol.com/finishes) 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, 2750T or 2765T Option
- Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEO) 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.
- NX Sensors with Bluetooth, BLE, provides remote commission only.

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## CONTROLS



### NX Distributed Intelligence™ Lighting Controls:

Supports both indoor and outdoor applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.

NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
<b>NX Standalone</b>								
NXS	NXSMP-SMI	No	Yes	Yes	Yes	Yes	Yes	Yes
<b>NX Networked – Wired</b>								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R <sup>1</sup>
NXES	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>NX Networked – Wireless</b>								
NXSW	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NXWE <sup>2</sup>	N/A	Yes	Yes	No	No	Yes	Yes	No <sup>3</sup>
<b>NX Networked – Wired/Wireless</b>								
NXSWD	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R <sup>1,3</sup>

- 1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network
- 2 Programming via App requires factory assistance
- 3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

### SpectraSync™ Color Tuning Technology:

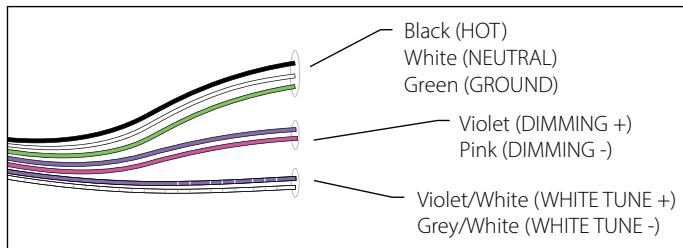
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCH 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-5000K 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-5000K 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 two options: 2750T (2700K–5000K) or 2765T (2700K–6500K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

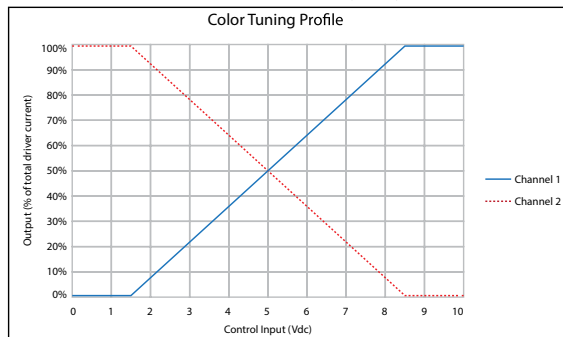


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### Controller Manufacturer Data

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

- Hubbell Control Solutions (HCS): NX Distributed Intelligence™ Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, DVSTV, and NFTV 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
<b>Uplight (STD Distribution)</b>			
I030 (min)	300	2.1	146
I050	500	3.4	148
I075	750	5.2	146
I100	1000	7.1	142
I120	1200	8.7	138
<b>Uplight (LPA Distribution)</b>			
I030	300	2.4	137
I050	500	3.6	138
I075	750	5.6	133
I100	1000	7.8	128
I120	1200	9.7	124
<b>Downlight</b>			
D030 (min)	300	2.6	118
D050	500	3.8	118
D075	750	6.5	115
D110	1100	9.0	111

(wattage may vary up to 5% from published)

### Output Restrictions

Driver options listed below are not available for the output and length as shown.

Restrictions - Indirect		Output STD		
		300	350	400
Length (feet)	2	Not Available	Not Available	Not Available

Restrictions - Indirect		Output LPA		
		300	350	400
Length (feet)	2	Not Available	Not Available	Not Available

Restrictions - Direct		Output LPA
		300
Length (feet)	2	Not Available

### Output Multiplier Table

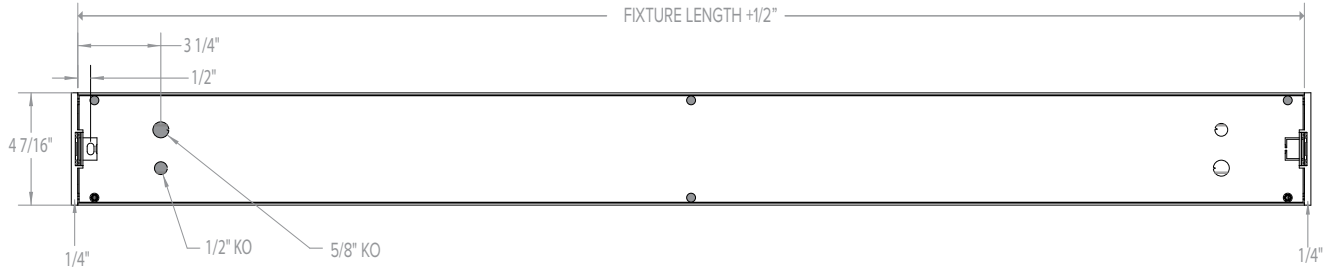
Photometrics for the 4L are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

Option	2700K	3000K	3500K	4000K	5000K	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
SOF	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
REG	0.73	0.75	0.77	0.79	0.81	0.64	0.65	0.68	0.69	0.72
BWO	0.67	0.69	0.70	0.72	0.76	0.63	0.53	0.47	0.42	0.39
ASYM	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
BAT	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
DRP	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
LPAD	0.86	0.88	0.90	0.93	0.95	0.75	0.77	0.79	0.81	0.84

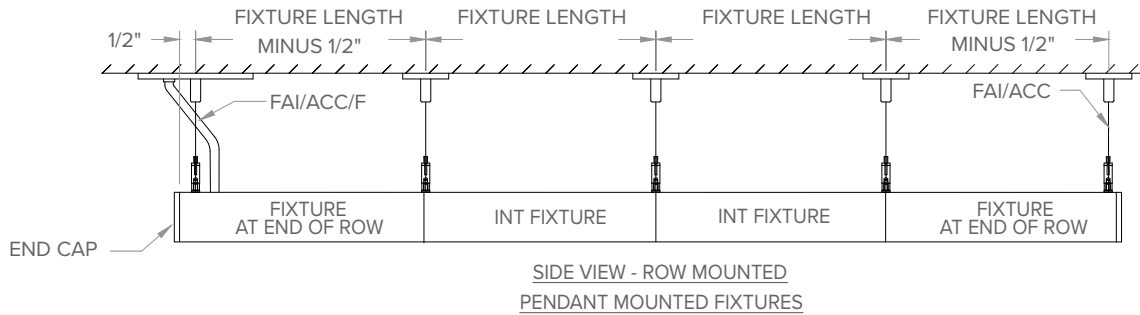
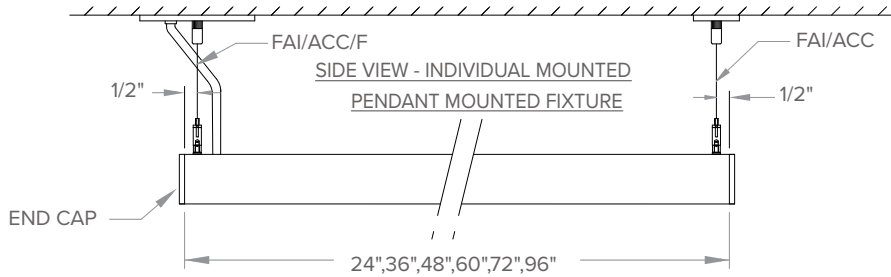
# 4L-P-ID

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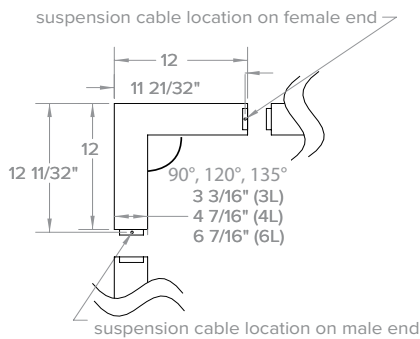
## DIMENSIONS



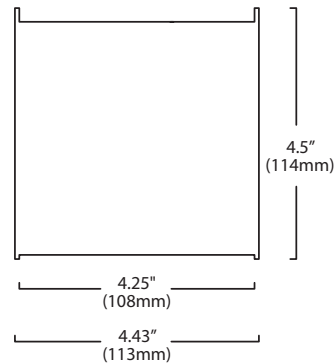
INDIVIDUAL MOUNTING



ROW MOUNTING



PATTERNS



END CAP VIEW

# 4L-P-ID

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## PHOTOMETRY

### 4L-P-ID-STD-4-SOF-X-CX-35K-I100-D100

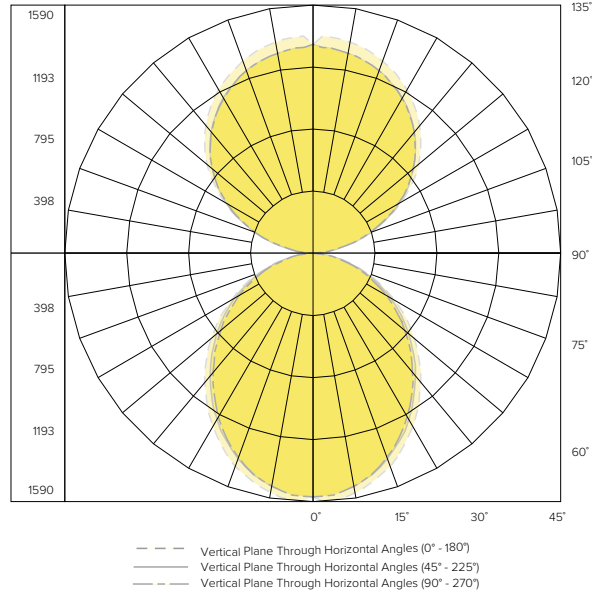
#### LUMINAIRE DATA

Description	4L Pendant Indirect, Standard Uplight, Soft Diffuse Lens, 3500K
Delivered Lumens	7999
Watts	65.0W
Efficacy	123
Mounting	Pendant

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1886	23.6
0-60	3215	40.2
0-90	4000	50.0
0-180	7999	100.0

#### POLAR GRAPH



### 4L-P-ID-LPA-4-SOF-X-CX-35K-I100-D100

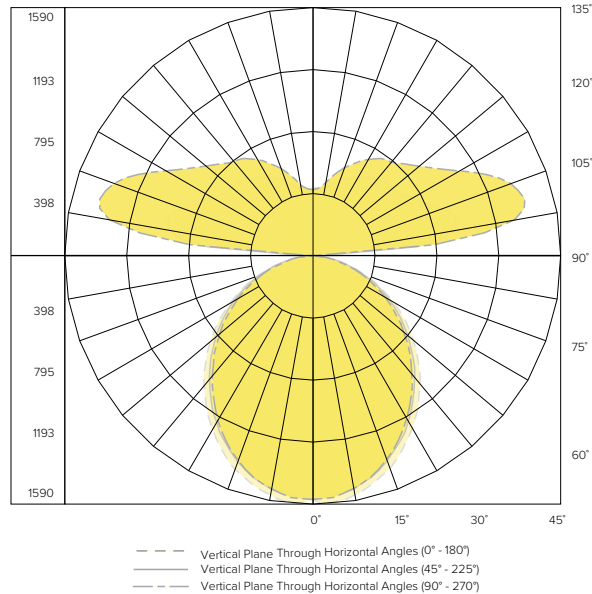
#### LUMINAIRE DATA

Description	4L Pendant Indirect, Low Peak Angle Uplight, Soft Diffuse Lens, 3500K
Delivered Lumens	8000
Watts	67.0W
Efficacy	119
Mounting	Pendant

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1886	23.6
0-60	3215	40.2
0-90	4000	50.0
0-180	8000	100.0

#### POLAR GRAPH



# 4L-P-ID

MOD™ 4 LED PENDANT INDIRECT/DIRECT

## PHOTOMETRY CONTINUED

### 4L-P-D-4-DRP-X-CX-35K-D100

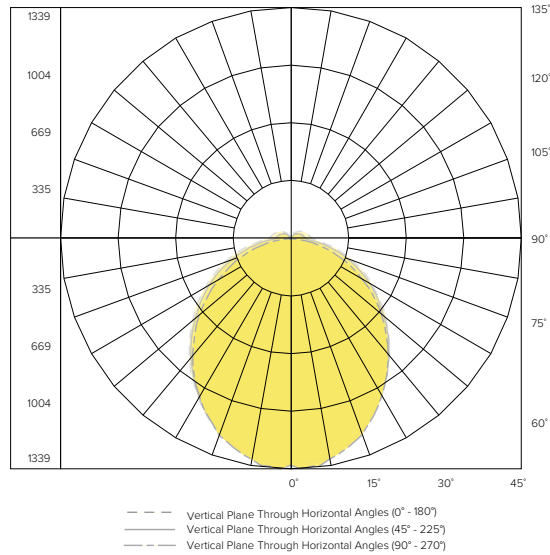
#### LUMINAIRE DATA

Description	4L Pendant Indirect, Drop Lens, 3500K
Delivered Lumens	3969
Watts	36.0W
Efficacy	110
Mounting	Pendant

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1613	40.6
0-60	2798	70.5
0-90	3678	92.7
0-180	3969	100.0

#### POLAR GRAPH



### 4L-P-D-4-BAT-X-CX-35K-D100

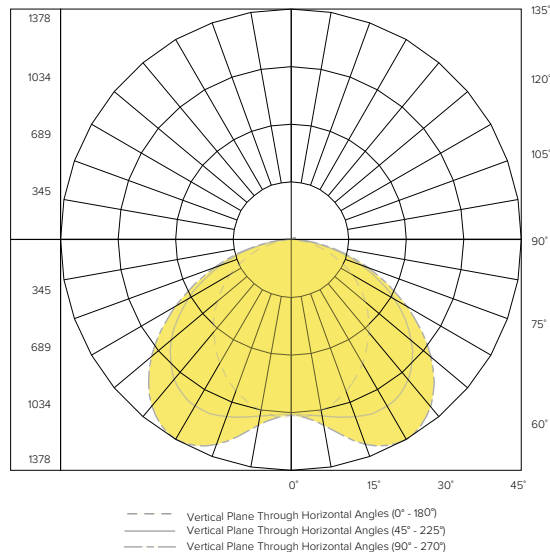
#### LUMINAIRE DATA

Description	4L Pendant Indirect, Batwing Lens, 3500K
Delivered Lumens	4000
Watts	36.0W
Efficacy	111
Mounting	Pendant

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1626	40.6
0-60	3056	76.4
0-90	3948	98.7
0-180	4000	100.0

#### POLAR GRAPH

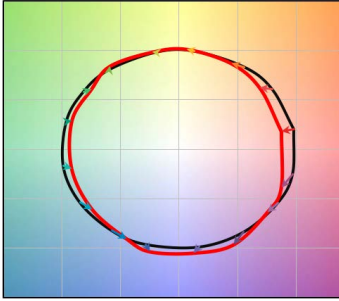


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## TM-30 DATA

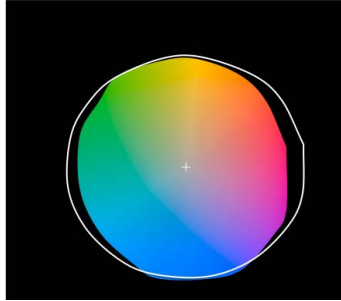
COLOR VECTOR GRAPHIC



\*Graphics shown are at 35K

— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC



TEST RESULTS - 3500K	
Value	80+ CRI
CCT (K)	3494
CIE R <sub>a</sub>	83
D <sub>UV</sub>	-0.0004
R <sub>f</sub>	82
R <sub>g</sub>	96
x	0.4052
y	0.3898



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DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG #: \_\_\_\_\_

## 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