LITECONTROL
making light work™

DATE: LOCATION:

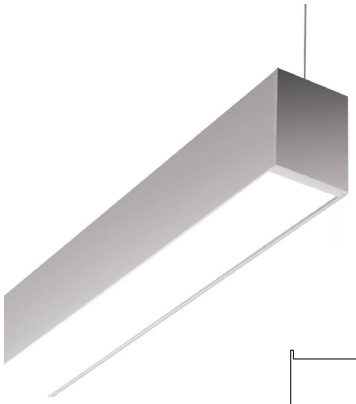
TYPE: PROJECT:

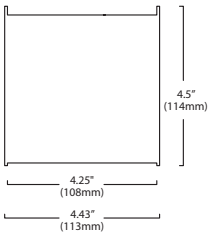
CATALOG #:

4L-P-D

MOD™ 4" LED PENDANT DIRECT

MOD™ X





End View

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-D series delivers 90 CRI at 122 LPW

VI BAA TAA TriGain® technology

CONTROLS TECHNOLOGY

NX CONNECT NX WIRED NX WIRELESS SpectraSync™ Color Tuning Technology

SERVICE PROGRAM

QS10

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

OPTICAL PERFORMANCE

- 2 SDCM color consistency, 90 CRI
- SOF: Soft diffuse acrylic lens
- REG: ½" 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: ½" protruding soft diffuse "drop" lens

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 ½" from fixture ends
- Pendant attachment allows for horizontal adjustment to "fine-tune" side-to-side leveling
- Square and Triangle non-illuminated connectors match fixture width for continuous look

INSTALLATION (CONTINUED)

- 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
- 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

	Weight
4L-P-D	3 lbs/ft

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

- CSA listed for damp location
- IBEW
- AF of L
- UL924
- 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.
- 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	D: 300–1250
Wattage Range Per Foot	2.5–11.2
Efficacy Range (LPW)	112–122
Rated Life (Hours)	L90: >60,000

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Gray Highlighting = 10 Day Quick Ship Program QS10

ORDERING GUIDE

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

CATALOG #

4L –

Series	Mounting	Fixture Distribution	Row Length (In Feet)	Max Length In Row	Direct Optical Distribution	Finish/Color [4]
4L MOD	**P** Pendant	**D** Direct	**__'** Enter in foot increments	**02** 2', 609mm	**SOF** Soft Diffuse Lens, Lambertian	**C1** Matte White (Default)
		AD Asymmetric Direct		**03** 3', 914mm	**REG** Regressed Diffuse Lens [1]	**C2** Textured Matte White
				04 4', 1219mm	**BWO** Blade Baffle with Overlay [1]	**C3** Light Silver
				05 5', 1524mm	**ASYM** Asymmetric Diffuse Lens [1, 2]	**C4** Machined Aluminum
				06 6', 1829mm	**BAT** Batwing Lens	**C5** Carbon Black
				08 8', 2438mm	**DRP** Drop Lens [1, 3]	**C6** Textured Camera Black
						CC Custom Color

– | Color Temperature | Direct Output/ft [6] | Driver | Circuiting | Voltage | Suspension Kit [10] |
|---|---|---|---|---|---|
| **27K9** 2700K, 90 CRI [3] | **D030** 300 (min) [7] | **D01** 1% Dimming, 0–10V | **1C** 1 Circuit | **UNV** Universal Voltage (120V through 277V) | **FA1** Suspension Kit, 51" |
| **30K9** 3000K, 90 CRI | *to* | **D00** 1% Dim-to-Off, 0–10V | | **347** 347 Volt [3, 9] | **FA2** Suspension Kit, 87" |
| **35K9** 3500K, 90 CRI | **D125** 1250 (max) | **D05** SpectraSync 5% Dimming, 0–10V [8] | | | **FA3** Suspension Kit, 219" |
| **40K9** 4000K, 90 CRI | | **DS1** 1% Dimming w/ Soft Start, 0–10V | | | **FA4** Suspension Kit, 363" |
| **50K9** 5000K, 90 CRI [3] | | **DS0** 1% Dim-to-Off w/ Soft Start, 0–10V | | | |
| **2230TD** 2200K–3000K SpectraSync™ Dim-to-Warm [3, 5] | | **LEC** Hi-lume 1% Ecosystem LED Driver [3] | | | |
| **2765T** 2700K–6500K SpectraSync™ Tunable White [3, 5] | | **DALI** DALI [3] | | | |
| | | **DALIP** Powered by DALI (2.0) [3] | | | |
| | | **NDM** Non-Dimming | | | |

OPTIONAL

– | Nightlight | Emergency | Thru-wiring | Patterns [3, 13] | T-Bar Clips [14] |
|---|---|---|---|---|
| **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 | **C90L** Illuminated 90° Corner | **CB1** T-bar clip - 15/16" |
| | | **W2** Provide Normal and Emergency/ Nightlight Thru Wiring [12] | **C120L** Illuminated 120° Corner | **CB2** T-bar clip - 9/16" |
| | | **W3** Provide Normal Thru Wiring Only | **C135L** Illuminated 135° Corner | **CB3** T-bar clip - 9/16" SS |

Control Options [3]

NX Networked – Wired

NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor [15, 16]
NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming [15, 16]

NX Networked – Wireless

NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming [15, 16]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor [15, 16]

Sensors

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

Notes:

1 Not Available with Patterns.
2 Must be ordered with AD.
3 Additional lead time may be applicable. Contact factory.
4 Visit currentlighting.com/litecontrol for details.
5 Must be ordered with D05 Driver option; excludes 2' lengths and patterns.
6 Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
7 D030 not available in 2'
8 Must be ordered with 2230TD or 2765T option
9 Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEC) Dimming Drivers
10 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.
11 EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
12 Only applicable when specified with Emergency/Nightlight.
13 Contact Factory for pattern configurations. Approval drawings required.
14 Includes Luminaire Canopy Box.

NX In-Fixture Control Options:

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

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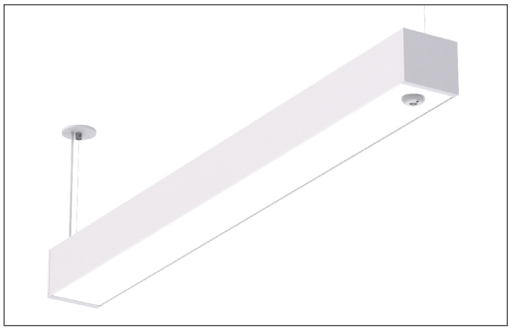
CONTROLS OPTIONS AND FUNCTIONALITY

NX LIGHTING CONTROLS™

	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 NXBTC dongle [1]	–		NXDSP
NX Wired	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
NX Wireless	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-D 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

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4L-P-D

MOD™ 4" LED PENDANT DIRECT

CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

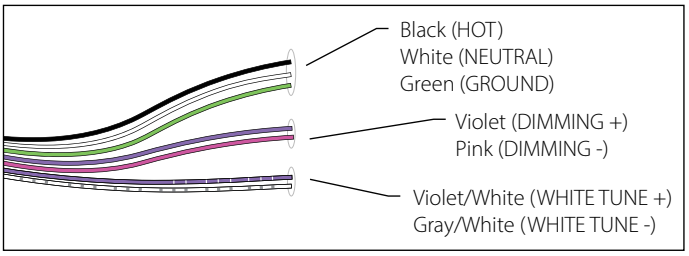
SpectraSync™ Color Tuning Technology:

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.

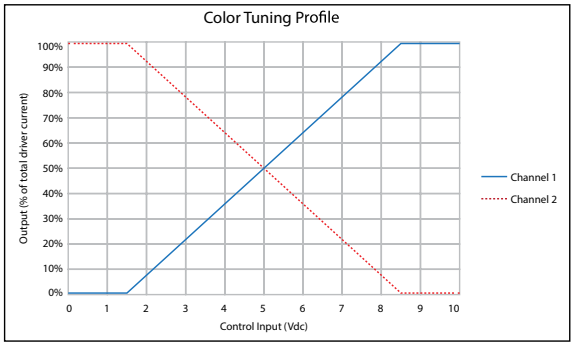


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and gray/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



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
Downlight			
D030 (min)	300	2.5	120
D050	500	4.1	122
D075	750	6.2	120
D125	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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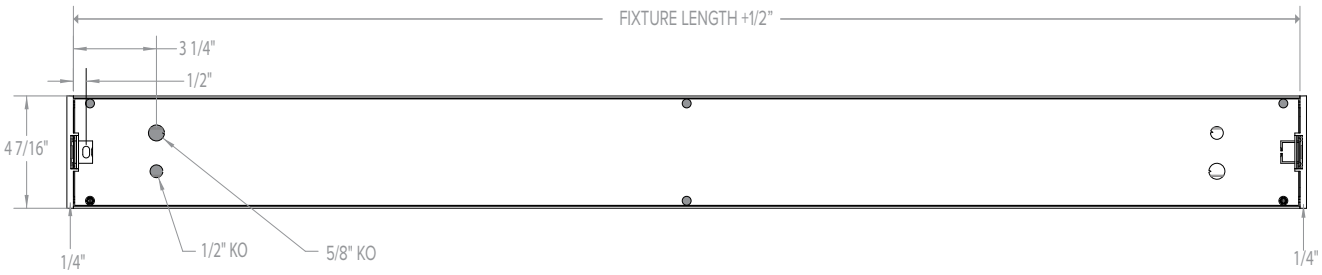
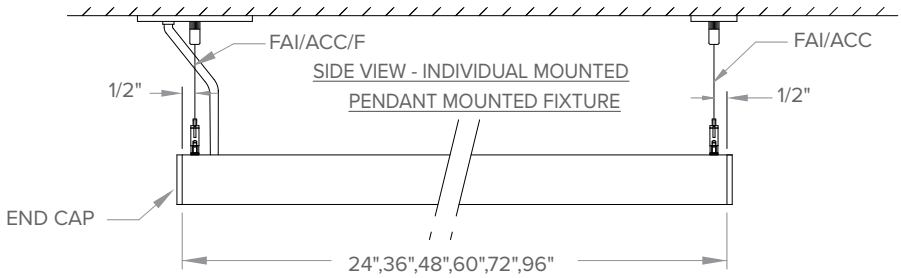
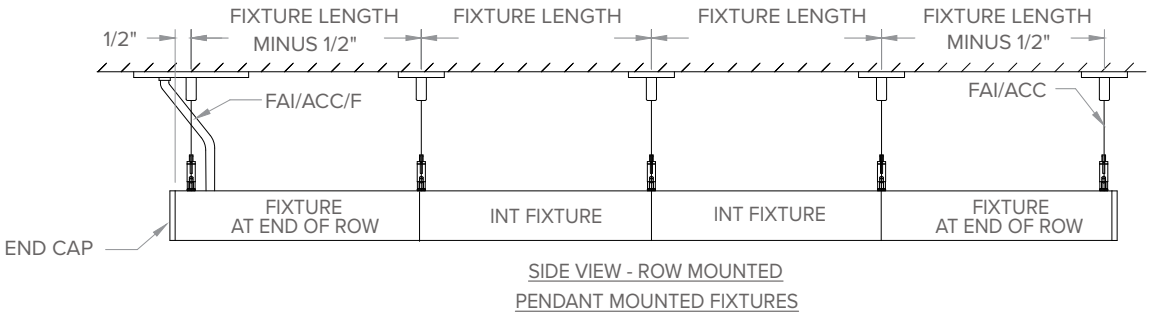
DIMENSIONS

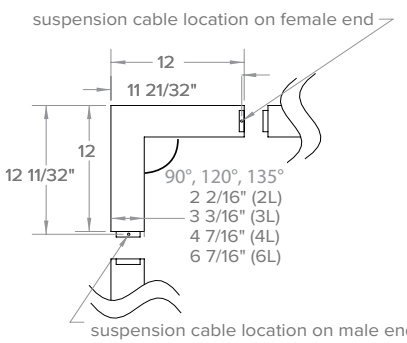


INDIVIDUAL MOUNTING

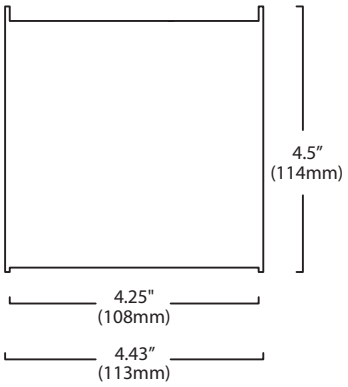




ROW MOUNTING



PATTERNS



END CAP VIEW

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MOD™ 4" LED PENDANT DIRECT

PHOTOMETRY

4L-P-D-4-SOF-CX-35K9-D075

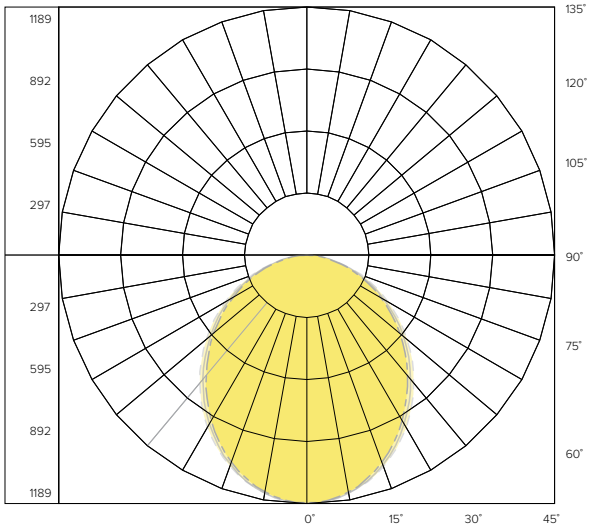
LUMINAIRE DATA

Description	**MOD 4L Linear Direct**
Delivered Lumens	**3000**
Watts	**25**
Efficacy	**120**
Mounting	**Pendant**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1423.75	47.50
0–60	2419.07	80.60
0–90	2999.9	100.0
0–180	2999.9	100.0

POLAR GRAPH



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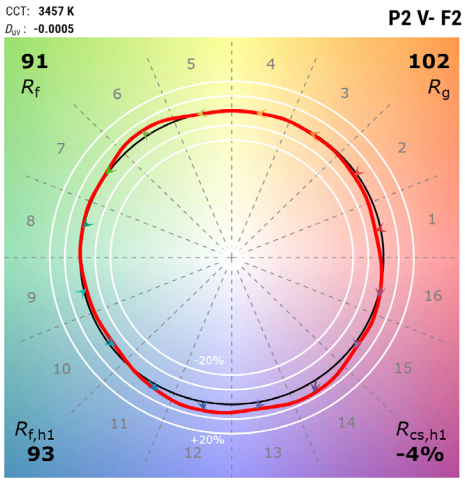
TM-30 DATA

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

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