

# 3L-S-D

MOD™ 3 LED SURFACE 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 3L-S-D series delivers 90 CRI at 116 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



## 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

### OPTICAL PERFORMANCE

- 2 SDCM color consistency, 90 CRI
- SOF: Soft diffuse acrylic lens
- 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

### INSTALLATION

- 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"

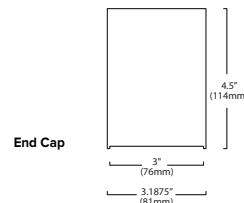
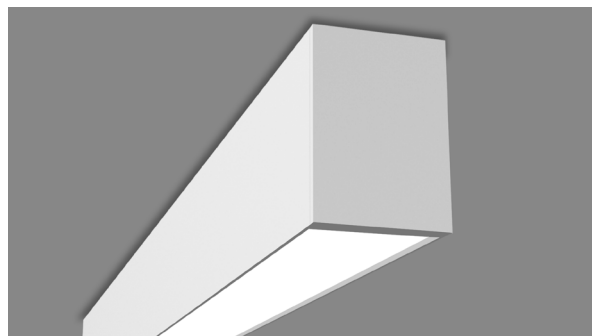
### ELECTRICAL

- 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
- Emergency Battery: 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4'+ fixtures. Test switch located on side of housing
- 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

MOD<sup>™</sup>X



|        | Weight   |
|--------|----------|
| 3L-S-D | 3 lbs/ft |

### 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 | 2.6-10.9     |
| Efficacy Range (LPW)   | 109-116      |
| Rated Life (Hours)     | L90: >60,000 |

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Gray Highlighting = 10 Day Quick Ship Program



## ORDERING GUIDE

Example: 3L-S-D-8-08-SOF-C1-27K9-D030-D01-1C-UNV

CATALOG #

| 3L     |           |                                  |                             |                                                                                                        |                                                                                                                                      |                                                                                                                                                                                                                                               |
|--------|-----------|----------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series | Mounting  | Fixture Distribution             | Row Length (In Feet)        | Max Length in Row                                                                                      | Direct Optical Distribution                                                                                                          | Finish/Color <sup>4</sup>                                                                                                                                                                                                                     |
| 3L MOD | S Surface | D Direct<br>AD Asymmetric Direct | —' Enter in foot increments | 02 2', 609 mm<br>03 3', 914 mm<br>04 4', 1219 mm<br>05 5', 1524 mm<br>06 6', 1829 mm<br>08 8', 2438 mm | SOF Soft Diffuse Lens, Lambertian<br>ASYM Asymmetric Diffuse Lens <sup>1,2</sup><br>BAT Batwing Lens<br>DRP Drop Lens <sup>1,3</sup> | C1 Matte White (Default)<br>C2 Textured Matte White<br>C3 Light Silver<br>C4 Machined Aluminum<br>C5 Carbon Black<br>C6 Textured Camera Black<br>MPL Maple <sup>3</sup><br>OAK Oak <sup>3</sup><br>CHR Cherry <sup>3</sup><br>CC Custom Color |

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

## OPTIONAL

| Nightlight                                                                      | Emergency                                                                                                              | Thru-wiring                                                                                                                    | Patterns <sup>3,12</sup>                                                                                                                                                             |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) <sup>10</sup> | W1 No Thru Wire<br>W2 Provide Normal and Emergency/ Nightlight Thru Wiring <sup>11</sup><br>W3 Provide Normal Thru Wiring Only | C90L Illuminated 90° L<br>C120L Illuminated 120° L<br>C135L Illuminated 135° L<br>C90T Illuminated T<br>C90X Illuminated X<br>C__L Illuminated L 75°-179° in 1° increment (Ex: C77L) |

Notes:

- Not Available with Patterns.
  - Must be ordered with AD.
  - Additional lead time may be applicable. Contact factory.
  - Visit [currentlighting.com/litecontrol](http://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
  - EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
  - 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 Options<sup>3</sup>

### NX Networked – Wired

- NXE NX Wired Dual RJ45 SmartPORTS, without Sensor<sup>13,14</sup>
- NXERM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming<sup>13,14</sup>

### NX Networked – Wireless

- NXWRM NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming<sup>13,14</sup>
- NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor<sup>13,14</sup>

### 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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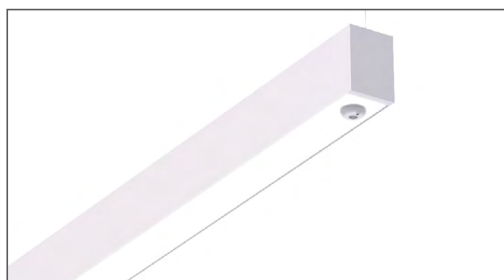
## CONTROLS OPTIONS AND FUNCTIONALITY



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

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

### 3L-S-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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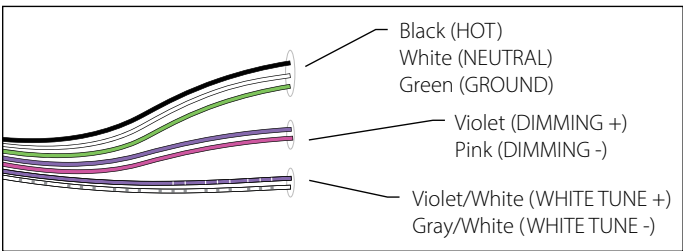
CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

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.



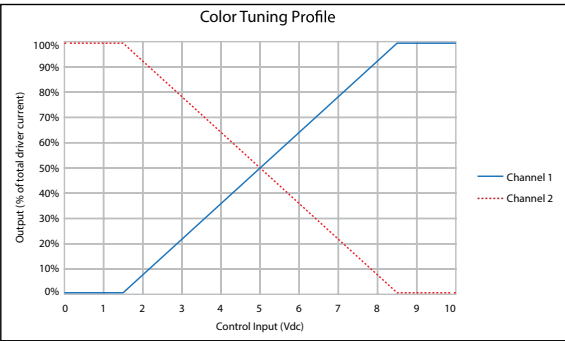
Table with 3 columns: Mode, Kelvin Range, Description. Rows include Dim to Warm, Tunable White, and Scheduled White.

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 Control Room Controllers (NXRC) and In-fixture Controllers (NXFM)
• Lutron: DDTV, 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       | 2.6  | 114      |
| D050         | 500       | 4.3  | 116      |
| D075         | 750       | 6.6  | 113      |
| D125         | 1250      | 10.9 | 115      |

(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.

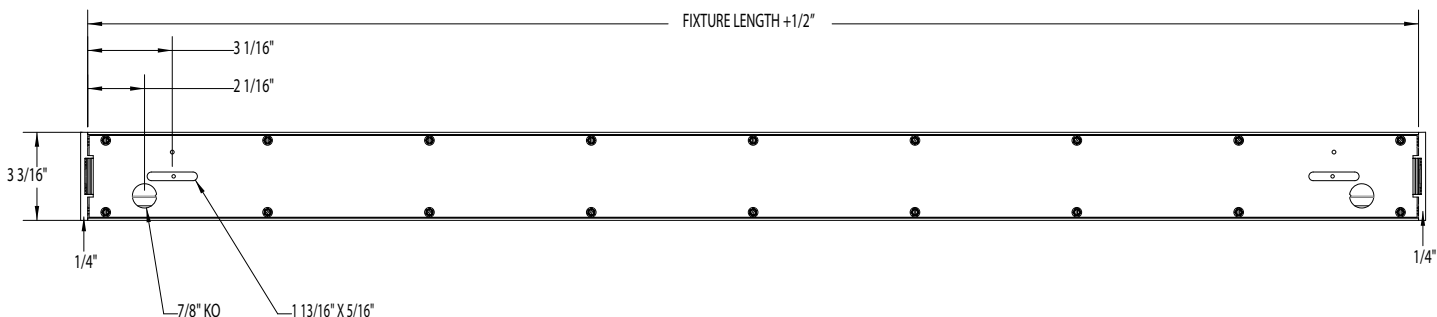
| Option | 2700K 90 CRI | 3000K 90 CRI | 3500K 90 CRI | 4000K 90 CRI | 5000K 90 CRI |
|--------|--------------|--------------|--------------|--------------|--------------|
| SOF    | 0.89         | 0.96         | 1.00         | 1.00         | 0.99         |
| BWO    | 0.62         | 0.67         | 0.70         | 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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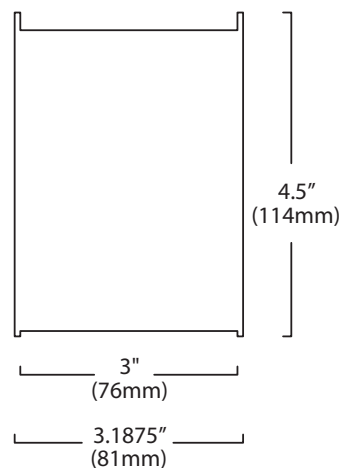
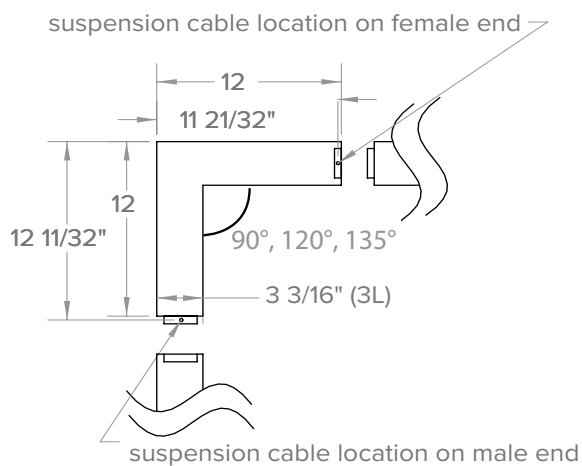
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## DIMENSIONS

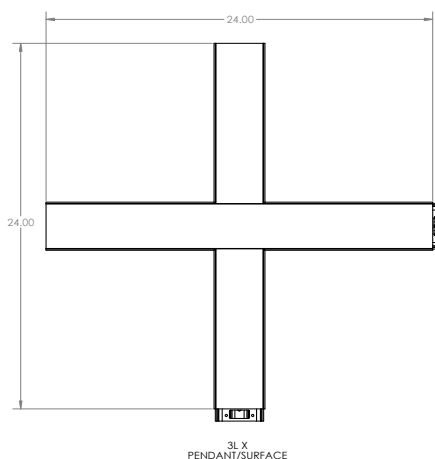
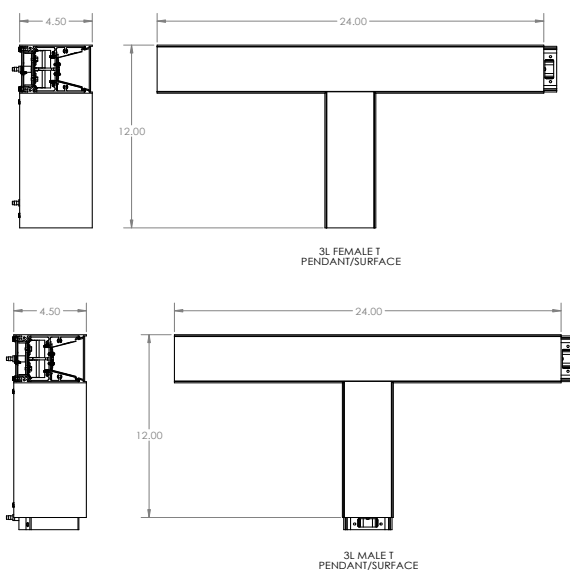


## INDIVIDUAL MOUNTING



## PATTERNS

## END CAP VIEW



## 3L-S-D

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### PHOTOMETRY

#### 3L-P-D-4-SOF-CX-35K9-D075

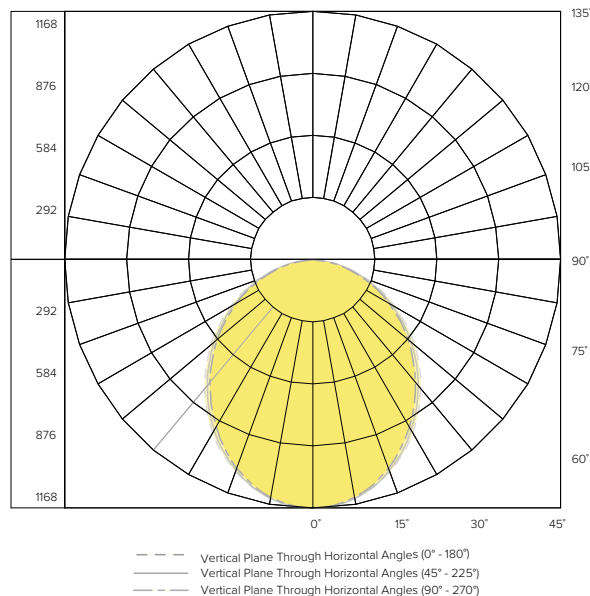
##### LUMINAIRE DATA

|                  |                      |
|------------------|----------------------|
| Description      | MOD 4L Linear Direct |
| Delivered Lumens | 3000                 |
| Watts            | 26.5                 |
| Efficacy         | 113                  |
| Mounting         | Surface              |

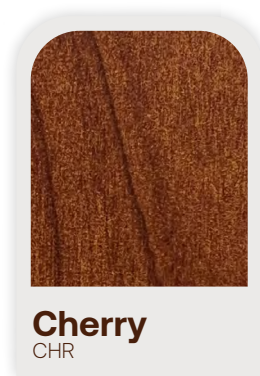
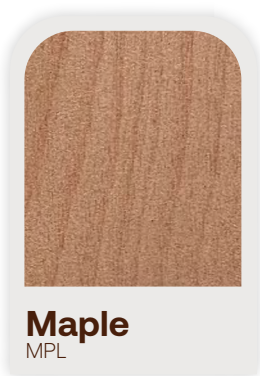
##### ZONAL LUMEN SUMMARY

| Zone  | Lumens  | % Luminaire |
|-------|---------|-------------|
| 0-40  | 1408.15 | 46.90       |
| 0-60  | 2406.05 | 80.20       |
| 0-90  | 2999.83 | 100.00      |
| 0-180 | 2999.83 | 100.00      |

##### POLAR GRAPH

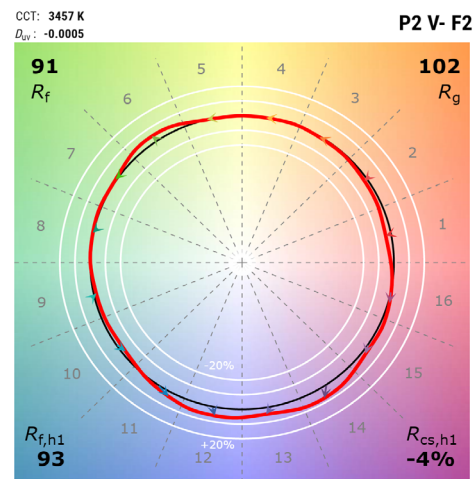


### FINISHES



### 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