

# 2L-W-ID

MOD™ 2 LED WALL 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

### OPTICAL PERFORMANCE

- 2 SDCM color consistency, 80 or 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
- DRP: ½" protruding soft diffuse "drop" lens

### INSTALLATION

- 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"
- Fixture weight: 3lbs/ft

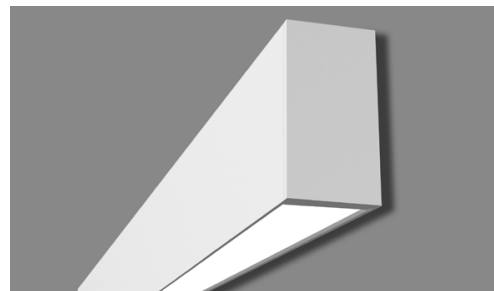
### ELECTRICAL

- 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
- 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
- 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>x</sup>



### RELATED PRODUCTS

- Ø [3L-W-ID](#) Ø [4L-W-ID](#) Ø [6L-W-ID](#)

### SERVICE PROGRAMS



### 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   | D: 300–1000                  |
| Wattage Range Per Foot | 3–12.1                       |
| Efficacy Range (LPW)   | 91–102                       |
| Rated Life (Hours)     | L70: >61,000<br>L90: >61,000 |

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MOD™ 2 LED WALL INDIRECT/DIRECT

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

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

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

 = Service Program



Click icon for a list of Quick-Ship options

## ORDERING GUIDE

**Example:** 2L-W-ID-LPAD-8-08-SOF-C1-27K-I030-D030-D01-1C-UNV

CATALOG #

| 2L     | Series | Mounting   | Fixture Distribution              | Indirect Optical Distribution | Row Length (In Feet)   | Max Length in Row  | Direct Optical Distribution |
|--------|--------|--|-----------------------------------|-------------------------------|--|--|-----------------------------|
| 2L MOD | W Wall | ID Indirect/Direct<br>IAD Indirect/Asymmetric Direct | LPAD Low Peak Angle with Diffuser | —' Enter in foot increments   | <b>02</b> 2', 609 mm<br><b>03</b> 3', 914 mm<br><b>04</b> 4', 1219 mm<br><b>05</b> 5', 1524 mm<br><b>06</b> 6', 1829 mm<br><b>08</b> 8', 2438 mm | <b>SOF</b> Soft Diffuse Lens, Lambertian<br><b>REG</b> Regressed Diffuse Lens <sup>1</sup><br><b>BWO</b> Blade Baffle with Overlay <sup>1</sup><br><b>ASYM</b> Asymmetric Diffuse Lens <sup>1,2</sup><br><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>I030</b> 300 (min)           | <b>D030</b> 300 (min)         | <b>D01</b> 1% Dimming, 0-10V                          | <b>1C</b> 1 Circuit                   |
| <b>C2</b> Textured Matte White  | <b>30K</b> 3000K   | to                              | to                            | <b>D00</b> 1% Dim-to-Off, 0-10V                       | <b>2C</b> 2 Circuit-Uplight/Downlight |
| <b>C3</b> Light Silver          | <b>35K</b> 3500K   | <b>I090</b> 900 (max)           | <b>D100</b> 1000 (max)        | <b>D05</b> SpectraSync 5% Dimming, 0-10V <sup>7</sup> |                                       |
| <b>C4</b> Machined Aluminum     | <b>40K</b> 4000K   |                                 |                               | <b>DS1</b> 1% Dimming w/ Soft Start, 0-10V            |                                       |
| <b>C5</b> Carbon Black          | <b>50K</b> 5000K <sup>3</sup>                                    |                                 |                               | <b>DS0</b> 1% Dim-to-Off w/ Soft Start, 0-10V         |                                       |
| <b>C6</b> Textured Camera Black | <b>27K9</b> 2700K, 90 CRI <sup>3</sup>                           |                                 |                               | <b>LEC</b> Hi-lume 1% Ecosystem LED Driver            |                                       |
| <b>CC</b> Custom Color          | <b>30K9</b> 3000K, 90 CRI  |                                 |                               | <b>DALI</b> DALI <sup>3</sup>                         |                                       |
|                                 | <b>35K9</b> 3500K, 90 CRI  |                                 |                               | <b>DALIP</b> Powered by DALI (2.0) <sup>3</sup>       |                                       |
|                                 | <b>40K9</b> 4000K, 90 CRI  |                                 |                               | <b>NDM</b> Non-Dimming                                |                                       |
|                                 | <b>50K9</b> 5000K, 90 CRI <sup>3</sup>                           |                                 |                               |   |                                       |
|                                 | <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> |                                 |                               |   |                                       |

### OPTIONAL

| Voltage                                  | Nightlight   | Emergency   | Thru-wiring   | Patterns <sup>3,11</sup>   | Dust Cover                              |
|--|--|---|---|--|---|
| <b>UNV</b> Universal Voltage (120V-277V) | <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>9</sup> | <b>W1</b> No Thru Wire<br><b>W2</b> Provide Normal and Emergency/ Nightlight Thru Wiring <sup>10</sup><br><b>W3</b> Provide Normal Thru Wiring Only | <b>C90L</b> Illuminated 90° Corner<br><b>C120L</b> Illuminated 120° Corner<br><b>C135L</b> Illuminated 135° Corner | <b>L1</b> Clear Acrylic Dust Cover Lens |
| <b>347</b> 347 Volt <sup>3,8</sup>       |  |   |   |  |   |

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

#### NX Standalone

**NXS** NX, PIR BT Occupancy/Daylight Sensor, Slide Mount<sup>12,13,14</sup>

#### NX Networked – Wired

**NXE** NX, Dual SmartPorts<sup>12,13</sup>

**NXES** NX, PIR BT Occupancy/Daylight Sensor, Slide Mount, Dual SmartPORTs<sup>12,13</sup>

#### NX Networked – Wireless

**NXSW** NX Wireless, PIR BT Occupancy/Daylight Sensor<sup>12,13,14</sup>

**NXWE** NX Wireless Wireless Enabled<sup>12,13</sup>

#### NX Networked – Wired/Wireless

**NXSWD** NX Wireless, PIR BT Occupancy/Daylight Sensor, Dual SmartPORTs<sup>12,13,14</sup>

**NXWD** NX Wireless, Dual Smart Ports<sup>12,13</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.
  - Must be ordered with 2230TD, 2750T 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.
  - 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 <a href="#">NXBTC/R</a> <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 <a href="#">NXBTC/R</a> <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:

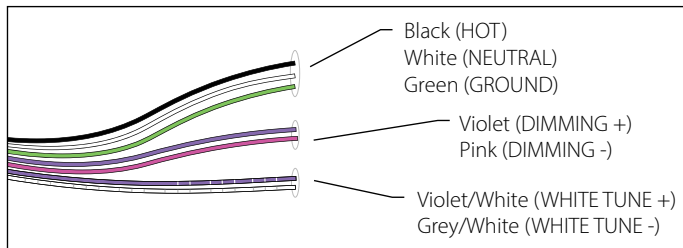
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



| 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<br>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<br>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.

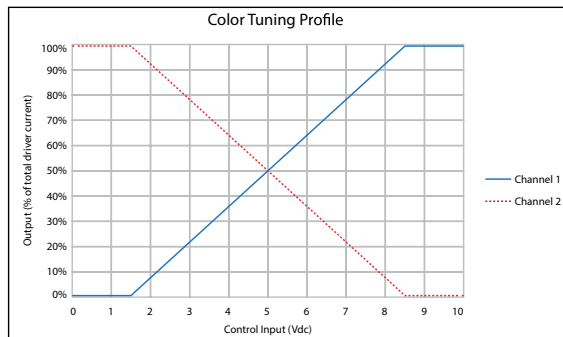


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### 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 NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



## 2L-W-ID

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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</b>   |           |      |          |
| I090 (Max)       | 900       | 12.8 | 94       |
| <b>Downlight</b> |           |      |          |
| D030 (min)       | 300       | 2.9  | 102      |
| D050             | 500       | 5.2  | 96       |
| D085             | 850       | 8.6  | 99       |
| D100             | 1000      | 12.1 | 91       |

(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 - Direct |   | Output LPA      |                 |            |            |            | 950 | 1000 |
|-----------------------|---|-----------------|-----------------|------------|------------|------------|-----|------|
|                       |   | 300             | 350             | 400        | 450        | 500        |     |      |
| Length (feet)         | 2 | LEC, DALI, 347V | LEC, DALI, 347V | DALI, 347V | DALI, 347V | DALI, 347V | LEC | LEC  |
|                       | 3 | DALI, 347V      | DALI, 347V      |            |            |            | LEC | LEC  |
|                       | 4 |                 |                 |            |            |            | LEC | LEC  |
|                       | 5 |                 |                 |            |            |            | LEC | LEC  |
|                       | 6 |                 |                 |            |            |            | LEC | LEC  |
|                       | 8 |                 |                 |            |            |            | LEC | LEC  |

### Output Multiplier Table

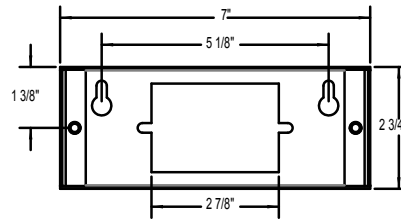
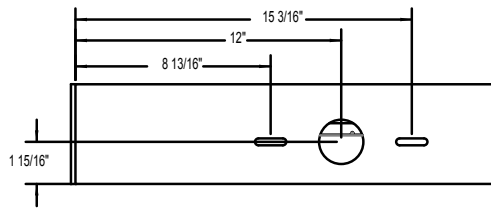
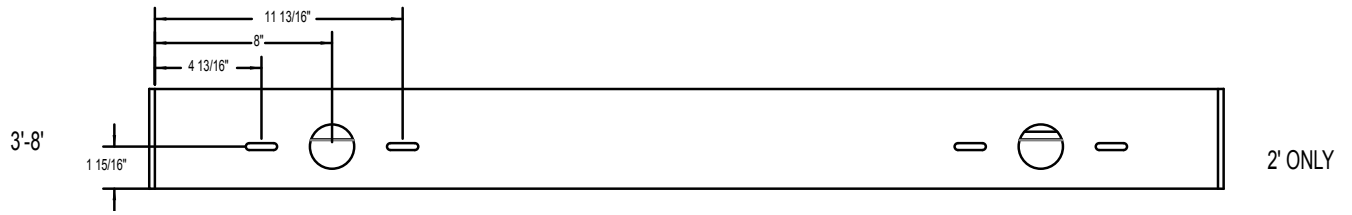
Photometrics for the 4L are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

| 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         |

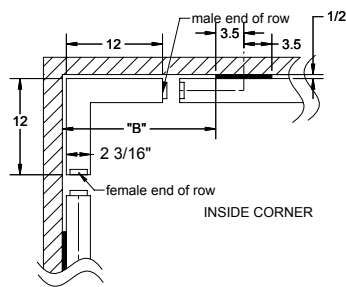
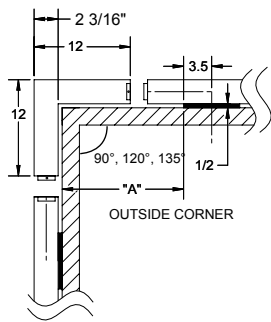
# 2L-W-ID

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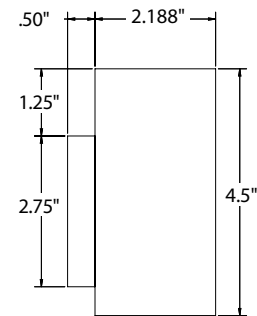
## DIMENSIONS



INDIVIDUAL MOUNTING



PATTERNS



END CAP VIEW

# 2L-W-ID

MOD™ 2 LED WALL INDIRECT/DIRECT

## PHOTOMETRY

### 2L-W-IAD-LPA-4-ASYM-IND-CX-35K-I050-D050

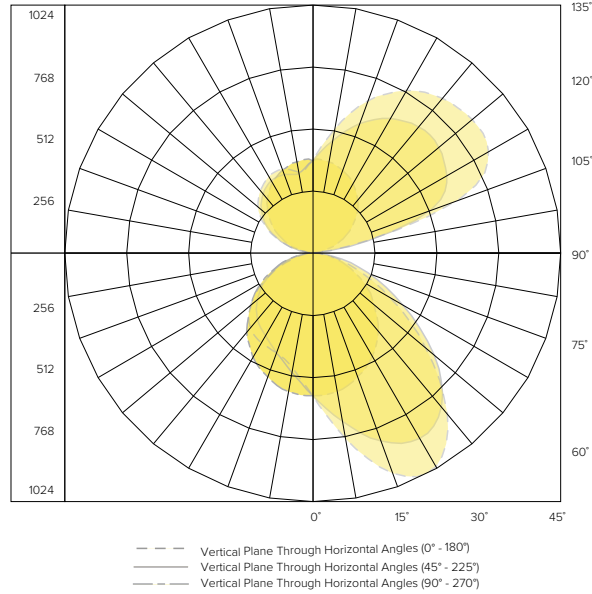
#### LUMINAIRE DATA

|                  |   |
|------------------|---|
| Description      | 2L Wall Indirect/Direct, Soft Diffuse Lens, 3500K |
| Delivered Lumens | 4000  |
| Watts            |   |
| Efficacy         | 87  |
| Mounting         | Wall  |

#### ZONAL LUMEN SUMMARY

| Zone  | Lumens  | % Luminaire |
|-------|---------|-------------|
| 0-40  | 896.16  | 22.4        |
| 0-60  | 1613.68 | 40.3        |
| 0-90  | 1999.5  | 50.0        |
| 0-180 | 3999.96 | 100.0       |

#### POLAR GRAPH



### 2L-X-D-04-DRP-CX-35K-D050

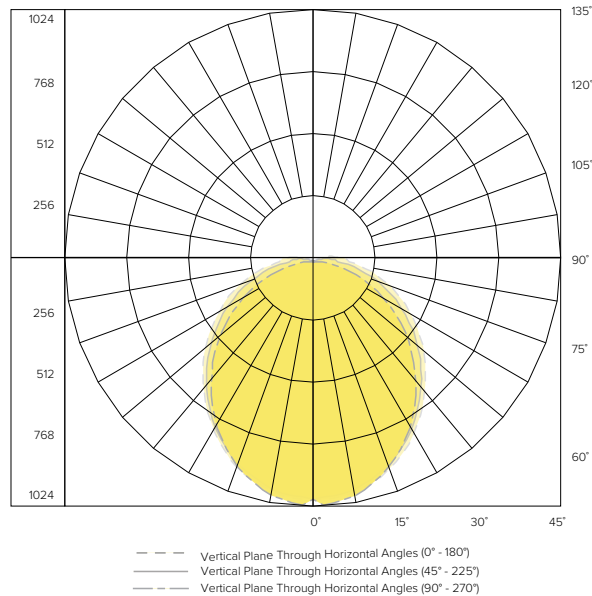
#### LUMINAIRE DATA

|                  |   |
|------------------|---|
| Description      | 2L Wall Indirect/Direct, Soft Diffuse Lens, 3500K |
| Delivered Lumens | 2000  |
| Watts            |   |
| Efficacy         | 95  |
| Mounting         | Wall  |

#### ZONAL LUMEN SUMMARY

| Zone  | Lumens  | % Luminaire |
|-------|---------|-------------|
| 0-40  | 801.88  | 40.1        |
| 0-60  | 1408.37 | 70.4        |
| 0-90  | 1904.98 | 95.2        |
| 0-180 | 1999.98 | 100.0       |

#### POLAR GRAPH

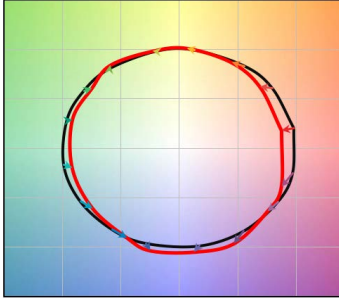


# 2L-W-ID

MOD™ 2 LED WALL INDIRECT/DIRECT

## TM-30 DATA

### COLOR VECTOR GRAPHIC



### 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  |

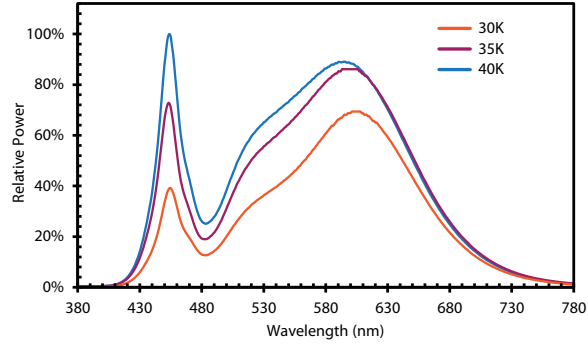
\*Graphics shown are at 35K

— Reference Illuminant — Test Source

### COLOR CHARACTERISTICS:

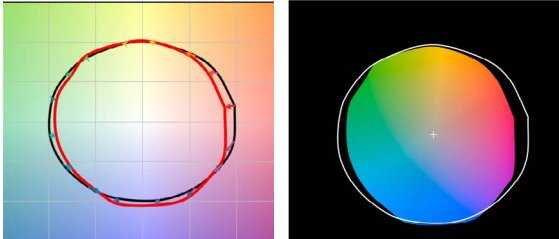
| Value           | Ordering Code |         |         |
|-----------------|---------------|---------|---------|
|                 | 30K           | 35K     | 40K     |
| R <sub>f</sub>  | 83            | 82      | 82      |
| R <sub>g</sub>  | 96            | 96      | 96      |
| CCT (K)         | 3009          | 3494    | 3975    |
| D <sub>uv</sub> | -0.0009       | -0.0004 | -0.0003 |
| x               | 0.435         | 0.4052  | 0.3814  |
| y               | 0.4012        | 0.3898  | 0.3768  |
| CIE Ra          | 83            | 83      | 84      |

### SPECTRAL DISTRIBUTION:

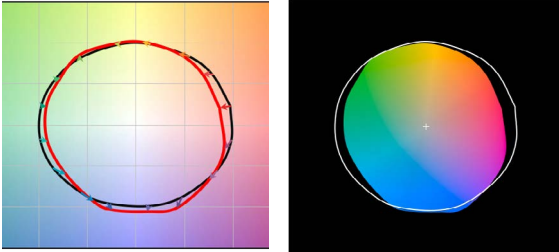


### COLOR VECTOR GRAPHIC:

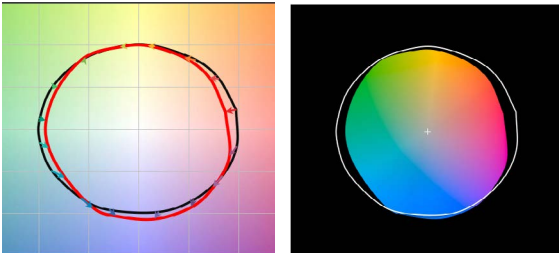
30K



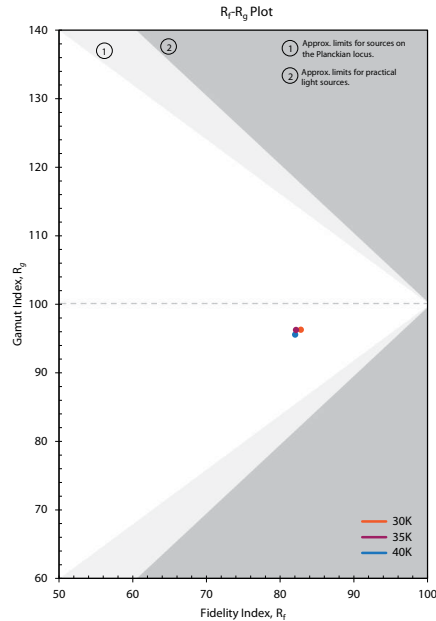
35K



40K



### COLOR GAMUT/FIDELITY PLOT:



### CRI: 80 MINIMUM

| CCT | CRI | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|-----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| 30K | 83  | 82 | 91 | 97 | 81 | 82 | 89 | 84 | 62 | 13 | 79  | 79  | 69  | 84  | 99  |
| 35K | 83  | 81 | 89 | 95 | 81 | 81 | 85 | 86 | 65 | 13 | 73  | 79  | 62  | 83  | 97  |
| 40K | 84  | 82 | 90 | 94 | 82 | 82 | 85 | 87 | 68 | 17 | 74  | 80  | 60  | 84  | 97  |

## 2L-W-ID

MOD™ 2 LED WALL INDIRECT/DIRECT

### 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