# LITECONTROL
### making light work™

Fixture Type:

Project Name:

## Ordering Guide

| Feature | Code | Options | Description |
|---|---|---|---|
| *Series* | | 13L | Arcos |
| *Mounting* | | W | Wall |
| *Fixture distribution* | | ID | Indirect/Direct |
| *Uplight distribution* | | STD | Standard |
| *Row length (in feet)* | | ___' | Enter in foot increments. Note fixture lengths below. |
| *Max length in row* | | 03<br>04<br>06<br>08 | 3', 914mm<br>4', 1219mm<br>6', 1829mm<br>8', 2438mm |
| *Downlight diffuser* | | SOF<br>BWO | Soft Diffuse<br>Blade Baffle with Overlay |
| *Finish/Color* | | C1<br>C2<br>C4<br>C5<br>C6<br>CC | Matte White (Default)<br>Textured, Matte White<br>Machined Aluminum<br>Carbon Black<br>Textured, Camera Black<br>Custom Color |
| *Color temperature* | | 27K<br>30K<br>35K<br>40K<br>50K<br>27K9<br>30K9<br>35K9<br>40K9<br>50K9<br>2230TD<br>2750T<br>2765T | 2700K+<br>3000K<br>3500K<br>4000K<br>5000K+<br>2700K , 90 CRI+<br>3000K, 90 CRI<br>3500K, 90 CRI<br>4000K, 90 CRI<br>5000K, 90 CRI+<br>2200K-3000K SpectraSync™ Dim-to-Warm*<br>2700K-5000K SpectraSync™ Tunable White*<br>2700K-6500K SpectraSync™ Tunable White*<br>*Must be ordered with D05 Driver option; excludes 2' lengths |
| *Indirect output/ft* (specifiable in 50 lumens/ft increments) | | I025<br>I145 | 250 (not available in 3' individual)<br>1450 |
| *Direct output/ft* (specifiable in 50 lumens/ft increments) | | D015<br>D135 | 150 (not available in 3' individual)<br>1350 |
| *Driver* | | NDM<br>D05<br>D01<br>DS1<br>D00<br>DS0<br>LEC<br>DALI<br>DALIP | Non Dimming<br>5% Dimming, 0-10V*<br>1% Dimming, 0-10V<br>Soft Start 1% Dimming, 0-10V<br>Dim-to-off (1%), 0-10V<br>Soft-Start Dim-to-off (1%), 0-10V<br>Hi-lume 1% EcoSystem LED Driver<br>DALI+<br>Powered DALI (2.0)+<br>*Must be ordered with 2230TD, 2750T or 2765T Options |
| *Circuiting* | | 1C<br>2C | 1 Circuit<br>2 Circuit-Up Light/ Down Light |

+ Additional lead time may be applicable. Contact factory.
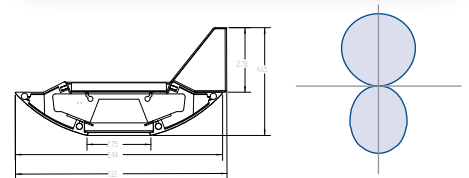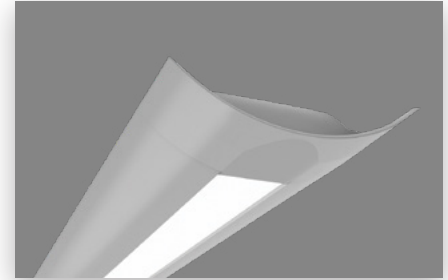


## Key Features

- Variable Intensity technology provides independently-adjustable uplight and downlight levels
- Windowless design provides for continuous lens along all fixture lengths
- 2 SDCM color variation

## Performance

| Nomenclature | Lumens/ft | W/ft | Efficacy |
|---|---|---|---|
| Uplight (STD distribution) | | | |
| I025 (min) | 250 | 1.9 | 131 |
| I050 | 500 | 3.4 | 146 |
| I075 | 750 | 5.2 | 146 |
| I100 | 1000 | 7.1 | 140 |
| I145 (max) | 1450 | 10.7 | 136 |
| | | | |
| Downlight | | | |
| D015 (min) | 150 | 1.7 | 87 |
| D025 | 250 | 2.5 | 101 |
| D050 | 500 | 4.7 | 107 |
| D075 | 750 | 6.9 | 108 |
| D090 | 900 | 8.5 | 106 |
| D135 (max) | 1350 | 13.0 | 104 |

**VI**

**Quick Find** litecontrol.com **13L-W**

**HUBBELL** Lighting

## Ordering Guide (cont)

| Voltage | | | |
|---|---|---|---|
| *Voltage* | | UNV | Universal Voltage |
| | | 347 | 347 Volt*+ |
| | | | *Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEC) Dimming Drivers. |

| Optional Features | Code | Options | Description |
|---|---|---|---|
| *Nightlight* | | NL | Nightlight Circuit Required.  Enter quantity. 2NL = 2 nightlight circuits/row |
| *Emergency* | | EF | 10W Emergency Battery Backup. Enter quantity. 2EF = 2 Emergency batteries/row. See details for restrictions |
| *Thru-wiring* | | W1 | No Thru Wire |
| | | W2 | Provide Normal and Emergency/Nightlight Thru Wiring* |
| | | W3 | Provide Normal Thru Wiring Only *Only applicable when specified with Emergency/Nightlight |
| *Dust cover* | | L1 | Clear Acrylic Dust Cover Lens |

| Control Options | Code | Options | Description |
|---|---|---|---|
| *NX*\*+ | | NXE | NX Enabled, Dual SmartPorts |
| | | NXWE | NX Wireless Enabled |
| | | NXES | NX Enabled, Dual SmartPorts, PIR Occupancy Sensor, Dimming Daylight Harvesting |
| | | NXS | NX, PIR Occupancy Sensor, Dimming Daylight Harvesting (standalone) |
| | | NXSW | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting |
| | | NXWD | NX Wireless Enabled, Dual SmartPORTs |
| | | NXSWD | NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, Dual SmartPORTs *Not available for row mounting; Only available with 0-10V Driver options; Contact factory for Length restrictions |
| *Sensors*+ | | SD1 | Daylight Sensor Required.  Enter quantity. 2SD1 = 2 daylight sensors/row |

+ Additional lead time may be applicable. Contact factory.

**HUBBELL Lighting**

## Details

**Construction:**
Extruded aluminum housing

**Finish:**
Visit www.litecontrol.com/finishes for details.

**Downlight diffuser:**
SOF-Softglo acrylic lens (ships installed)
BWO-While blade baffle with softglo lens overlay (ships installed)

**CCT:**
27K-2700K output multiplier (0.95)
30K-3000K output multiplier (0.98)
35K-3500K output multiplier (1.00)*
40K-4000K output multiplier (1.03)
50K-5000K output multiplier (1.05)
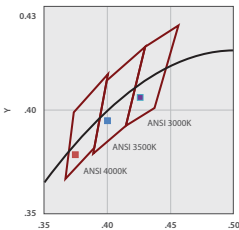27K9-2700K 90 CRI output multiplier (0.83)
30K9-3000K 90 CRI output multiplier (0.85)
35K9-3500K 90 CRI output multiplier (0.88)
40K9-4000K 90 CRI output multiplier (0.90)
50K9-5000K 90 CRI output multiplier (0.93)
*Scale all values from 35K



**Color variation:**
2 step MacAdam ellipse

**Output (Vi Technology):**
Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed & labeled to specification. See Output section for available increments.

**Output:**
Indirect and direct hemispheres can be independently specified. Specify each in 50 lumen increments/ft within the below range:

|          | Lumens/ft | Nomenclature |
|----------|-----------|--------------|
| Indirect |           |              |
| Min:     | 250       | I025         |
| Max:     | 1450      | I145         |
| Direct   |           |              |
| Min:     | 150       | D015         |
| Max:     | 1350      | D135         |

**Circuiting:**
1C (1 Circuit) Uplight and downlight switched/dimmed together.
2C (2 Circuit uplight/downlight) Uplight and downlight switched/dimmed separately.  Two power feeds required.

**Mounting:**
Wall brackets ship separately. Install over standard 2x4" junction box.
2 brackets required for each fixture section. Each bracket installs 12" in from fixture end.

**Thru wiring:**
See separate LC-Thruwire spec sheet for additional details.

**Driver:**
NDM: Non-dimming.  Fixture will be wired for fixed light output.
D05: Osram 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.
D01: 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control.
DS1: Soft-Start 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
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)

**NX Distributed Intelligence:** NX DISTRIBUTED INTELLIGENCE™
Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enables emerging applications such as Hubbell Lighting's SpectraSync™ color tuning technology.
See separate NX™ Application Guide for additional details.
See Hubbell Controls Solution NX Brochure.

**Sensors:**
SD1: Daylight sensor only (Wattstopper part# FD301).  Installs within diffuser; cover plate ensures clean fit/finish.  Can be installed at any fixture joint.
NX: NX Sensors installs between diffusers.
See separate Controls Options Guide for additional details.

**Row joining:**
Each row joint/end cap requires dowel pins (factory-supplied) which provide preliminary alignment and fixture support.  5/8" Phillips pan-head screws (factory-supplied) install from above to ensure tight, consistent seams.

**End caps:**
Die-cast aluminum.  Sculpted-style only.

**Field accessibility:**
LED boards and drivers can be accessed an removed from above fixture, while installed.  LED boards can be replaced either individually or as part of 4' module.

**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 with two distinct SpectraSync™ Color Tuning Technology.
Dim to Warm: Dim to Warm mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed. (Available with 2200K-3000K).
Tunable White: Tunable White offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material  and colors or the aesthetics of the space. (Available with 2700K-5000K or 2700K-6500K).
See separate SpectraSync™ Tech Sheet for additional details.
See separate NX™ Solutions Guide for additional details.

**HUBBELL Lighting**

## Details (cont)

**Nightlight:**
See separate LC-Nightlight spec sheet for additional details.

**Emergency:**
EF - 10W battery powered driver.
Provides a minimum of 90 minutes of emergency lighting.
Inverter-Compatible. Provided by others.

**Fixture weight:**
3 lbs/ft.  End cap 0.5 lbs each.

**Ratings:**
CSA listed for damp locations. 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.  Contact factory
for configurations including Emergency Battery, NX, or sensors.

**Warranty:**
LED boards-5 years
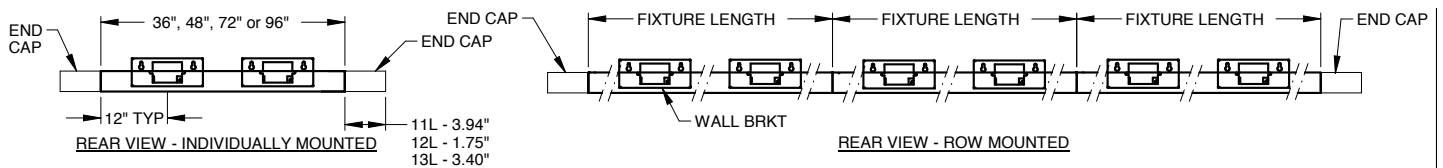LED drivers (standard)-5 years
LED drivers (Lutron)-3 years

**CRI:**
80 minimum

| CCT | CRI | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|-----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| 30K | 82 | 81 | 89 | 94 | 80 | 80 | 84 | 85 | 65 | 19 | 73 | 78 | 63 | 83 | 96 |
| 35K | 83 | 82 | 90 | 94 | 81 | 81 | 85 | 87 | 68 | 24 | 75 | 78 | 62 | 84 | 97 |
| 40K | 83 | 82 | 89 | 92 | 81 | 81 | 83 | 88 | 70 | 23 | 72 | 78 | 55 | 84 | 95 |

**Rated life:**
Tested in accordance to LM79-2008 & derived from EPA TM-21 calculator
L70: 280,000 hours (calculated per TM-21 extrapolated curve)
L70: >61,000 hours (reported per TM-21/LM80 6x's limitation)
L90: 72,000 hours (calculated per TM-21 extrapolated curve)
L90: >61,000 hours (reported per TM-21/LM80 6x's limitation)

Litecontrol reserves the right to change specifications without notice.



END CAP

36", 48", 72" or 96"

END CAP
END CAP

FIXTURE LENGTH   FIXTURE LENGTH   FIXTURE LENGTH   END CAP

WALL BRKT

12" TYP
REAR VIEW - INDIVIDUALLY MOUNTED

11L - 3.94"
12L - 1.75"
13L - 3.40"

REAR VIEW - ROW MOUNTED

**Quick Find** litecontrol.com  **13L-W**

HUBBELL   **HUBBELL** Lighting

# Photometry

**Fixture**: 11L-W-ID-STD-04-04-SOF-C1-35K-I100/D085
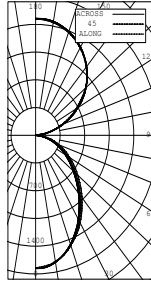**CCT**: 3500K
**Output**: I100/D085
**Nominal lumens:** Indirect: 1000/ft.  Direct 850/ft.
**Efficacy**: 131 lm/W
**Test report**: 11L-W-ID-STD-04-04-SOF-C1-35K-I100/D085



### ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LUMINAIRE |
|---|---|---|
| 0-30 | 1226 | 14.90 |
| 0-40 | 1925 | 23.40 |
| 0-60 | 3153 | 38.34 |
| 0-90 | 3876 | 47.13 |
| 40-90 | 1952 | 23.73 |
| 60-90 | 723 | 8.79 |
| 90-180 | 4347 | 52.87 |
| 0-180 | 8225 | 100.0 |

**Quick Find** litecontrol.com **13L-W**

**HUBBELL** Lighting