

P-ID-L11 (Knife)
P-ID-L12 (Rail)
Pendant-Mounted LED Indirect/Direct

Product Description

LED indirect/direct pendants featuring VI (variable intensity) technology which provides independently-adjustable uplight & downlight levels with little impact on fixture efficacy. Windowless design provides for continuous lens, with no breaks/minimal seams, along all fixture lengths.



Ordering Guide

| Product Specifications | | | | | | | | | | | | | Options |
|------------------------|--------------|---------------------------|------------------------|---------------------|--|-------------------|----------------------------------|---------------------------------|-------------------|-------------------|--------------|------------|-------------------------------|
| Mounting | Distribution | Series | Length in feet (mm) | Downlight Diffusers | Distribution (INDIRECT) | CCT | Output/4' INDIRECT* | Output/4' DIRECT* | Finish | Dimming | Circuiting | Volts | |
| P (Pendant) | | L11 (Knife) L12 (Rail) | 04 (1219) 08 (2438) | SOF BW/SOF | STD (standard) LPA (low peak angle) | 30K 35K 40K | Min: 1000 (10) Max: 4000 (40) | Min: 600 (06) Max: 3500 (35) | CWM (matte white) | D10 LEC LHI | 1CWQ 2CWQ | 120 277 | LK (dust cover) CS/dlh |

*see page 3 & 4 for output options

Example Part Number: P-ID-L11-04-SOF-STD-30K-I10-D05-CWM-D10-1CWQ-120-LK

Features & Options

Housing styles: All housings are aluminum extrusions.

L11: Tapered, knife-edge design (9.0" W x 2.25"H)

L12: Rectilinear design with shadow reveal (6.0"W x 2.25"H)

Housing lengths: 4' (04)
8' (08)

Diffusers: All diffusers ship factory-installed. Diffusers about at 4' or 8' lengths, depending on row length. End cap design provides constant inward pressure to minimize diffuser seam appearance.

SOF: Softglo acrylic lens

BW/SOF: White blade baffle with softglo acrylic lens overlay

Uplight distribution:

STD: Standard option. Lambertian distribution

LPA: Low Peak Angle option. 112° peak intensity

LED Color Temperature:

27K: Not available

30K: 3000K

35K: 3500K

40K: 4000K

50K: Consult factory.

Output (Indirect): Can be specified to 100 lumens within below range regardless of uplight distribution.

| | Lumens / 4' | Nomenclature |
|------|-------------|--------------|
| Max: | 4000 | I40 |
| Min: | 1000 | I10 |

Output (Direct): Can be specified to 100 lumens within below range.

| | Lumens / 4' | Nomenclature |
|------|-------------|--------------|
| Max: | 3500 | D35 |
| Min: | 600 | D06 |

Finish: Matte white. Additional finish colors available upon request.

Wiring: 1 circuit (1CWQ) Fixture is wired such that uplight and downlight are switched together. Provided with factory-installed push-in style quick-connects.
2 circuit (2CWQ) Fixture is wired such that uplight and downlight are separate circuits.
-Each circuit individually switched/dimmed: two power feeds required.
-Both circuits switched/dimmed together: one power feed required

| Voltage: | 120V | (120) |
|----------|------|-------|
| | 277V | (277) |
| | 347V | n/a |



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Additional Details

- Row joining:** Each row joint/end cap requires (4) dowel pins (factory-supplied). Dowel pins provide preliminary alignment and temporary fixture support. 5/8" Philips pan-head screws (factory-supplied) install from above to ensure tight, consistent seams.
- End caps:** Die-cast aluminum. Sculpted only.
- Suspension feeds:** Suspension: Required at every row joint. Low-profile yoke-style.
- FAI/ACC:** Aircraft cable. 3/64" diameter field-adjustable. Ship separately.
- 51" length:** Standard
- 87" length:** Available (consult factory)
- 219" length:** Available (consult factory)
- Field accessibility:** LED boards and drivers can be accessed and removed from above fixture, while installed. If necessary, LED boards can be replaced either individually or as part of 4' module. See warranty details at www.litecontrol.com.

- Driver:**
- D10** Low-voltage dimming; fixture will be wired for low-voltage 0-10V dimming control. Dimming range is 100% to 10%.
- LEC** Lutron Ecosystem dimming; fixture will be wired with a Lutron A-series driver for compatibility with Ecosystem controls. Dimming range is 100% to 5%. Driver provides constant current output and uses constant current reduction dimming. See lutron.com for a list of compatible dimming devices.
- LHI** Lutron Hi-Lume 3-wire dimming; fixture will be wired with a Lutron A-series driver for compatibility with Hi-Lume controls. Dimming range is 100% to 5%. Driver provides constant current output and uses constant current reduction dimming. See lutron.com for a list of compatible dimming devices.
- Dust cover:** Available. Part # LK
- Controls:** Daylight sensor only (CS/dlh). Wattstopper part# FD301. Installs within diffuser window. Cover plate ensures clean assembly. Can be installed at any fixture join. Consult factory to specify or for additional control options.
- Emergency battery:**
- Integral:** Not available
- 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. Litecontrol reserves the right to change specifications without notice for product development and improvement.

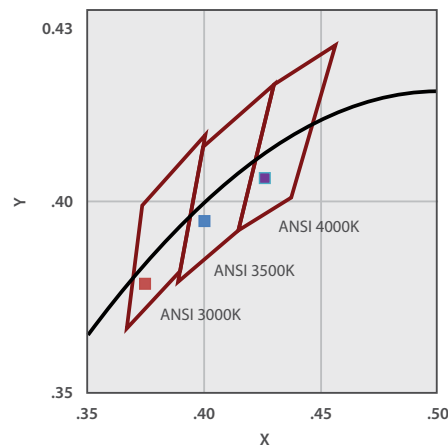
Technology Details

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 |

Color variation: 3-step MacAdam ellipse maximum, both within fixture and fixture-to-fixture.

Color Temperatures:



Life: Tested in accordance to IESNA LM79-2008. Life extrapolations based on IESNA TM-21-11

- LED:** 96,000 hours (L70)
- Driver:** Standard: 100,000 hours
- Lutron:** 50,000 hours

Min. starting temp:

Max. operating temp:

Warranty: see www.litecontrol.com for warranty details

- LED boards:** 5 years
- LED drivers:** Standard: 5 years
- Lutron:** 3 years

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Intensity Options

Using VI technology, output can be specified to 100 lumens (per 4'). This allows specification of wattage consumption in <1W/ft increments.

| | Minimum Lumens / 4' | Maximum Lumens / 4' |
|-------------------------|---------------------|---------------------|
| Indirect Output: | 1000 | 4000 |
| Direct Output: | 600 | 3500 |

| Product Specifications | | | | | | | | | | | | | Options |
|------------------------|--------------|---------------------------|------------------------|---------------------|--|-------------------|----------------------------------|---------------------------------|-------------------|-------------------|--------------|------------|---------------------------|
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Specify based on **required distribution**. Assume a **70/30 distribution** is required:

- Example 1** P-ID-L11-04-SOF-STD-35K-**I35** - **D15** -CWM-1CWQ-120
 Indirect output: 3500 lumens Direct output: 1500 lumens = 5000 total lumens, 48W (per 4')
- Example 2** P-ID-L11-04-SOF-STD-35K-**I24** - **D10** -CWM-1CWQ-120
 Indirect output: 2400 lumens Direct output: 1000 lumens = 3400 total lumens, 32W (per 4')

Specify based on **power density**. Assume required input power is **34W per 4'**:

- Example 1** P-ID-L11-04-SOF-STD-35K-**I30** - **D06** -CWM-1CWQ-120
 Indirect output: 3000 lumens Direct output: 600 lumens = 3600 total lumens, 85/15 Distribution
- Example 2** P-ID-L11-04-SOF-STD-35K-**I24** - **D10** -CWM-1CWQ-120
 Indirect output: 2400 lumens Direct output: 1000 lumens = 3400 total lumens, 70/30 Distribution
- Example 3** P-ID-L11-04-SOF-STD-35K-**I10** - **D20** -CWM-1CWQ-120
 Indirect output: 1000 lumens Direct output: 2000 lumens = 3000 total lumens, 35/65 Distribution

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Fixture Output/Wattage

| Uplight: STD Distribution | | |
|---------------------------|---------|-----------------|
| Output-Specified | Wattage | Efficacy (lm/W) |
| 1000 (I10, min) | 9 | 111 |
| 2000 (I20) | 17 | 117 |
| 3000 (I30) | 26 | 115 |
| 4000 (I40, max) | 37 | 109 |

| Uplight: LPA Distribution | | |
|---------------------------|---------|-----------------|
| Output-Specified | Wattage | Efficacy (lm/W) |
| 1000 (I10, min) | 10 | 96 |
| 2000 (I20) | 19 | 104 |
| 3000 (I30) | 29 | 103 |
| 4000 (I40, max) | 40 | 101 |

| Downlight | | |
|------------------|---------|-----------------|
| Output-Specified | Wattage | Efficacy (lm/W) |
| 500 (D05, min) | TBD | TBD |
| 1000 (D10) | 12 | 86 |
| 1500 (D15) | 17 | 88 |
| 2000 (D20) | 23 | 87 |
| 2500 (D25) | 29 | 85 |
| 3000 (D30) | 36 | 83 |
| 3500 (D35, max) | 44 | 81 |

Knife and Rail can also be programmed to match traditional fluorescent outputs:
(Estimates only; actual output depends on selected fluorescent fixture)

| Lamping | Distribution (I/D) | Output-Indirect | Output-Direct | Part Code (output only) | Wattage | Efficacy (lm/W) |
|---------|--------------------|-----------------|---------------|-------------------------|---------|-----------------|
| 1-T5/T8 | 80/20 | 2000 | 600 | I20/D05 | 25 | 105 |
| 1-T5/T8 | 65/35 | 1500 | 1000 | I15/D10 | 25 | 102 |
| 1-T5/T8 | 35/65 | 1000 | 1500 | I10/D15 | 26 | 96 |
| 1-T5HO | 80/20 | 3200 | 800 | I32/D08 | 38 | 106 |
| 1-T5HO | 65/35 | 2500 | 1500 | I25/D15 | 39 | 104 |
| 1-T5HO | 35/65 | 1500 | 2500 | I15/D25 | 42 | 95 |
| 2-T5/T8 | 80/20 | 4000 | 1000 | I40/D10 | 48 | 103 |
| 2-T5/T8 | 65/35 | 3300 | 1700 | I33/D17 | 49 | 103 |
| 2-T5/T8 | 35/65 | 1700 | 3300 | I17/D33 | 55 | 91 |

