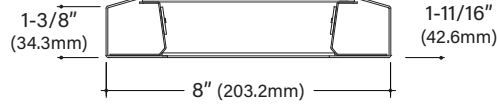


LINERO L8DI-A

Single Source Linear



Key Features

- One piece die-formed 18 gauge steel housing
- Highly reflective die-formed white painted steel reflector
- Die-cast aluminum end caps
- LINERO offered with a 5-year limited warranty that covers LED, driver and fixture
- UL and cUL Listed
- Approved for dry/damp location
- Maximum fixture weight is 17 lbs per standard 4' fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



QUICKSHIP



Example Part #: L8DI-A-70v-835HO-26'-AC48G1-U-OL2-1-0-W

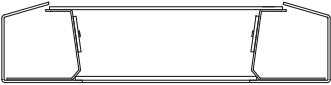
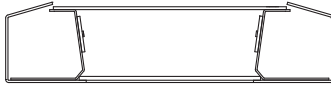

| L8DI-A | DISTRIBUTION | CRI, CCT & OUTPUT | LENGTH | MOUNTING | VOLTAGE | DRIVER | CIRCUITING | BATTERY & EMERGENCY | FINISH | FIXTURE OPTIONS | CONTROLS |
|---|---|---|---|----------|---------|--------|------------|---------------------|--------|-----------------|----------|
| L8DI-A | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HOUSING | DISTRIBUTION | CRI, CCT & OUTPUT <i>QS</i> ¹ | LENGTH ² | | | | | | | | |
| L8DI-A - LINERO 8 with Satine Lens <i>QS</i> <i>Shielding pg. 2</i> | 40 - 40% Direct / 60% Indirect <i>QS</i> 70 - 70% Direct / 30% Indirect <i>QS</i> 100 - 100% Direct <i>QS</i> <i>Shielding pg. 2</i> | 27 - 2700K 30 - 3000K 35 - 3500K (available with BIOS) 40 - 4000K (available with BIOS) CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2-5</i> | --- - Individual Fixture <i>QS</i> --- - Continuous Row <i>QS</i> <i>Length pg. 5</i> | | | | | | | | |
| MOUNTING ³ | VOLTAGE | DRIVER | CIRCUITING | | | | | | | | |
| AC - AC to Grid <i>QS</i> AC - AC to J Box <i>QS</i> AC - AC to Structure <i>QS</i> AC5 - 5" Non-Power Canopy <i>QS</i> AC5 - 5" Non-Power Canopy <i>QS</i> SQ - 5" Square Canopy <i>QS</i> SQ - 5" Square Canopy <i>QS</i> WA - Wall Mount <i>Mounting pg. 5</i> | U - Universal <i>QS</i> (120 thru 277V) 1 - 120V <i>QS</i> 2 - 277V <i>QS</i> 3 - 347V <i>Voltage pg. 6</i> | OL2 - Osram (1%, 0-10v, standard) <i>QS</i> OL5 - Osram (1%, 0-10v, AUX) OL5 - Osram (1%, 0-10v, DEXAL) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>QS</i> L51 - Lutron 5-Series (5%, EcoSystem) PL2 - Advance Xitanium (1%, 0-10v) <i>QS</i> ND - Non-Dimming <i>QS</i> <i>Driver pg. 6</i> | 1 - Single Circuit <i>QS</i> M - Multi Circuit E - Emergency <i>QS</i> (entire fixture) N - Night Light <i>QS</i> (entire fixture) <i>Circuiting pg. 6</i> | | | | | | | | |
| BATTERY & EMERGENCY ⁴ | FINISH | FIXTURE OPTIONS <i>QS</i> ⁵ | CONTROLS ⁶ | | | | | | | | |
| 0 - None <i>QS</i> IL - Iota Integral 10W (low profile) PL - Bodine 10W (low profile) <i>QS</i> E - Emergency circuit section N - Night Light circuit section L - Life Safety circuit section G - Bodine GTD <i>Battery and Emergency pg. 6</i> | W - White <i>QS</i> S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 7</i> | QS - Quick Ship <i>QS</i> <i>Fixture Options pg. 7</i> | DLMFC - Wattstopper DLM (wired) EASYS - Philips EasySense (wireless) SNSLM - Osram Sensilum (wireless) WVLX - Eaton WaveLinX (wireless) VDO - Lutron Vive Sensor (wireless) VRF - Lutron Vive Connected (wireless) ENL - Enlighted (wireless) <i>Controls pg. 7</i> | | | | | | | | |

¹When specifying SOURCE the first _ is for specifying either **8** - 80CRI, **9** - 90CRI or **B** - BIOS. The ending _ are for specifying output, example **HO** - High Output. When specifying BIOS use **B** and then specify color temperature, either 3500K or 4000K, and output, example **B35HO** - BIOS 3500K High Output. See output charts for more information. BIOS dynamic available, please contact factory for more information. For Quick-ship CRI, CCT & Output see chart on page 7 ²Individual fixtures come in 4', 6' & 8' lengths. Continuous rows available in 2' increments, starting at 4'. ³Specify AC Cable length, standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example AC48G1. ⁴Enter quantity for Battery and Emergency, Example 2PL. ⁵QS must be used in fixture options section of part number to qualify. 1/8" increments not available for QS. ⁶Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 6 for driver options and more information.

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Distribution

| 40 | 70 | 100 |
|---|---|---|
| 40% Direct / 60% Indirect | 70% Direct / 30% Indirect | 100% Direct |
|  |  |  |

40% Direct Source: Static White¹

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

Custom Output- Lumens OR Wattage

| | | |
|-----------------|--|--|
| CL _____ | Specify CRI, CCT and desired lumens (i.e. CL835950) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CW _____ | Specify CRI, CCT and desired wattage (i.e. CW9409.5) | Specify watts between standard offering listed below |

80 CRI

| | Color | Lumens per foot | Shielding A | |
|---------------|-------|--------------------|--------------------|-------|
| | | | Satine Watts/ft | LPW |
| 830LO | 3000K | 400 | 2.6 | 154.7 |
| 830 | 3000K | 600 | 3.8 | 159.0 |
| 830HO | 3000K | 850 | 5.4 | 157.8 |
| 830VHO | 3000K | 1250 | 8.0 | 157.0 |
| 835LO | 3500K | 400 | 2.6 | 154.7 |
| 835 | 3500K | 600 | 3.8 | 159.0 |
| 835HO | 3500K | 850 | 5.4 | 157.8 |
| 835VHO | 3500K | 1250 | 8.0 | 157.0 |
| 840LO | 4000K | 400 | 2.6 | 154.7 |
| 840 | 4000K | 600 | 3.8 | 159.0 |
| 840HO | 4000K | 850 | 5.4 | 157.8 |
| 840VHO | 4000K | 1250 | 8.0 | 157.0 |

90 CRI

| | | | | |
|---------------|-------|------|-----|-------|
| 927LO | 2700K | 400 | 2.6 | 154.7 |
| 927 | 2700K | 600 | 3.8 | 159.0 |
| 927HO | 2700K | 850 | 5.4 | 157.8 |
| 927VHO | 2700K | 1250 | 8.0 | 157.0 |
| 930LO | 3000K | 400 | 2.6 | 154.7 |
| 930 | 3000K | 600 | 3.8 | 159.0 |
| 930HO | 3000K | 850 | 5.4 | 157.8 |
| 930VHO | 3000K | 1250 | 8.0 | 157.0 |
| 935LO | 3500K | 400 | 2.6 | 154.7 |
| 935 | 3500K | 600 | 3.8 | 159.0 |
| 935HO | 3500K | 850 | 5.4 | 157.8 |
| 935VHO | 3500K | 1250 | 8.0 | 157.0 |
| 940LO | 4000K | 400 | 2.6 | 154.7 |
| 940 | 4000K | 600 | 3.8 | 159.0 |
| 940HO | 4000K | 850 | 5.4 | 157.8 |
| 940VHO | 4000K | 1250 | 8.0 | 157.0 |

¹LPW and watts/ft based off 48" fixture size.

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40% Direct Source: BIOS¹

- CRI >84, R9 >90
- Spectrum focused lighting for circadian stimulus
- High EML or M/P ratio: .8 for 3500K, .9 for 4000K
- CRI: ≤3.3
- Available for use with most Driver or Control options

Custom Output- Lumens OR Wattage

| | | |
|------------------|--|--|
| CLB _____ | Specify CRI, CCT and desired lumens (i.e. CL835950) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CWB _____ | Specify CRI, CCT and desired wattage (i.e. CW9409.5) | Specify watts between standard offering listed below |

80 CRI

| | Color | Lumens per foot | Shielding A | |
|---------------|-------|--------------------|-----------------------|------|
| | | | Satine Watts/ft | LPW |
| 835LO | 3500K | 400 | 4.3 | 93.6 |
| 835 | 3500K | 600 | 6.5 | 93.0 |
| 835HO | 3500K | 850 | 9.4 | 90.8 |
| 835VHO | 3500K | 1250 | 14.3 | 87.2 |
| 840LO | 4000K | 400 | 4.3 | 93.0 |
| 840 | 4000K | 600 | 6.3 | 95.5 |
| 840HO | 4000K | 850 | 9.1 | 93.3 |
| 840VHO | 4000K | 1250 | 14.0 | 89.6 |

70% Direct Source: Static White¹

Custom Output- Lumens OR Wattage

| | | |
|-----------------|--|--|
| CL _____ | Specify CRI, CCT and desired lumens (i.e. CL835950) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CW _____ | Specify CRI, CCT and desired wattage (i.e. CW9409.5) | Specify watts between standard offering listed below |

80 CRI

| | Color | Lumens per foot | Shielding A | |
|---------------|-------|--------------------|-----------------------|-------|
| | | | Satine Watts/ft | LPW |
| 830LO | 3000K | 400 | 3.4 | 117.5 |
| 830 | 3000K | 600 | 4.8 | 123.7 |
| 830HO | 3000K | 850 | 6.9 | 123.3 |
| 830VHO | 3000K | 1250 | 10.4 | 119.6 |
| 835LO | 3500K | 400 | 3.4 | 117.5 |
| 835 | 3500K | 600 | 4.8 | 123.7 |
| 835HO | 3500K | 850 | 6.9 | 123.3 |
| 835VHO | 3500K | 1250 | 10.4 | 119.6 |
| 840LO | 4000K | 400 | 3.4 | 117.5 |
| 840 | 4000K | 600 | 4.8 | 123.7 |
| 840HO | 4000K | 850 | 6.9 | 123.3 |
| 840VHO | 4000K | 1250 | 10.4 | 119.6 |

90 CRI

| | | | | |
|---------------|-------|------|------|-------|
| 927LO | 2700K | 400 | 3.5 | 117.3 |
| 927 | 2700K | 600 | 4.8 | 123.7 |
| 927HO | 2700K | 850 | 6.9 | 123.3 |
| 927VHO | 2700K | 1250 | 10.4 | 119.6 |
| 930LO | 3000K | 400 | 3.4 | 117.5 |
| 930 | 3000K | 600 | 4.8 | 123.7 |
| 930HO | 3000K | 850 | 6.9 | 123.3 |
| 930VHO | 3000K | 1250 | 10.4 | 119.6 |
| 935LO | 3500K | 400 | 3.4 | 117.5 |
| 935 | 3500K | 600 | 4.8 | 123.7 |
| 935HO | 3500K | 850 | 6.9 | 123.3 |
| 935VHO | 3500K | 1250 | 10.4 | 119.6 |
| 940LO | 4000K | 400 | 3.4 | 117.5 |
| 940 | 4000K | 600 | 4.8 | 123.7 |
| 940HO | 4000K | 850 | 6.9 | 123.3 |
| 940VHO | 4000K | 1250 | 10.4 | 119.6 |

¹LPW and watts/ft based off 48" fixture size.

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70% Direct Source: BIOS¹

Custom Output- Lumens OR Wattage

| | | |
|------------------|--|--|
| CLB _____ | Specify CRI, CCT and desired lumens (i.e. CL835950) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CWB _____ | Specify CRI, CCT and desired wattage (i.e. CW9409.5) | Specify watts between standard offering listed below |

80 CRI

| | Color | Lumens per foot | Shielding A Satine Watts/ft | LPW |
|---------------|-------|--------------------|---|------|
| 835LO | 3500K | 400 | 5.2 | 77.6 |
| 835 | 3500K | 600 | 7.9 | 76.1 |
| 835HO | 3500K | 850 | 11.5 | 73.7 |
| 835VHO | 3500K | 1250 | 17.8 | 70.2 |
| 840LO | 4000K | 400 | 5.0 | 79.7 |
| 840 | 4000K | 600 | 7.7 | 78.2 |
| 840HO | 4000K | 850 | 11.2 | 75.8 |
| 840VHO | 4000K | 1250 | 17.3 | 72.2 |

100% Direct Source: Static White¹

Custom Output- Lumens OR Wattage

| | | |
|-----------------|--|--|
| CL _____ | Specify CRI, CCT and desired lumens (i.e. CL835950) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CW _____ | Specify CRI, CCT and desired wattage (i.e. CW9409.5) | Specify watts between standard offering listed below |

80 CRI

| | Color | Lumens per foot | Shielding A Satine Watts/ft | LPW |
|---------------|-------|--------------------|---|-------|
| 830LO | 3000K | 400 | 3.3 | 122.4 |
| 830 | 3000K | 600 | 4.6 | 130.1 |
| 830HO | 3000K | 850 | 6.5 | 129.8 |
| 830VHO | 3000K | 1250 | 9.8 | 127.5 |
| 835LO | 3500K | 400 | 3.3 | 122.4 |
| 835 | 3500K | 600 | 4.6 | 130.1 |
| 835HO | 3500K | 850 | 6.5 | 129.8 |
| 835VHO | 3500K | 1250 | 9.8 | 127.5 |
| 840LO | 4000K | 400 | 3.3 | 122.4 |
| 840 | 4000K | 600 | 4.6 | 130.1 |
| 840HO | 4000K | 850 | 6.5 | 129.8 |
| 840VHO | 4000K | 1250 | 9.8 | 127.5 |

90 CRI

| | Color | Lumens per foot | Shielding A Satine Watts/ft | LPW |
|---------------|-------|--------------------|---|-------|
| 927LO | 2700K | 400 | 3.3 | 122.4 |
| 927 | 2700K | 600 | 4.6 | 130.1 |
| 927HO | 2700K | 850 | 6.5 | 129.8 |
| 927VHO | 2700K | 1250 | 9.8 | 127.5 |
| 930LO | 3000K | 400 | 3.3 | 122.4 |
| 930 | 3000K | 600 | 4.6 | 130.1 |
| 930HO | 3000K | 850 | 6.5 | 129.8 |
| 930VHO | 3000K | 1250 | 9.8 | 127.5 |
| 935LO | 3500K | 400 | 3.3 | 122.4 |
| 935 | 3500K | 600 | 4.6 | 130.1 |
| 935HO | 3500K | 850 | 6.5 | 129.8 |
| 935VHO | 3500K | 1250 | 9.8 | 127.5 |
| 940LO | 4000K | 400 | 3.3 | 122.4 |
| 940 | 4000K | 600 | 4.6 | 130.1 |
| 940HO | 4000K | 850 | 6.5 | 129.8 |
| 940VHO | 4000K | 1250 | 9.8 | 127.5 |

¹LPW and watts/ft based off 48" fixture size.

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100% Direct Source: BIOS¹

Custom Output- Lumens OR Wattage

| | | |
|------------------|--|--|
| CLB _____ | Specify CRI, CCT and desired lumens (i.e. CL835950) | Specify lumens between standard offering listed below. Lumens are specified per color temp |
| CWB _____ | Specify CRI, CCT and desired wattage (i.e. CW9409.5) | Specify watts between standard offering listed below |

80 CRI

| | Color | Lumens per foot | Shielding A | |
|---------------|-------|--------------------|-----------------------|------|
| | | | Satine Watts/ft | LPW |
| 835LO | 3500K | 400 | 5.1 | 77.8 |
| 835 | 3500K | 600 | 7.9 | 76.3 |
| 835HO | 3500K | 850 | 11.5 | 74.0 |
| 835VHO | 3500K | 1250 | 17.7 | 70.4 |
| 840LO | 4000K | 400 | 5.0 | 79.9 |
| 840 | 4000K | 600 | 7.7 | 78.4 |
| 840HO | 4000K | 850 | 11.2 | 76.0 |
| 840VHO | 4000K | 1250 | 17.3 | 72.4 |

¹LPW and watts/ft based off 48" fixture size.

Length

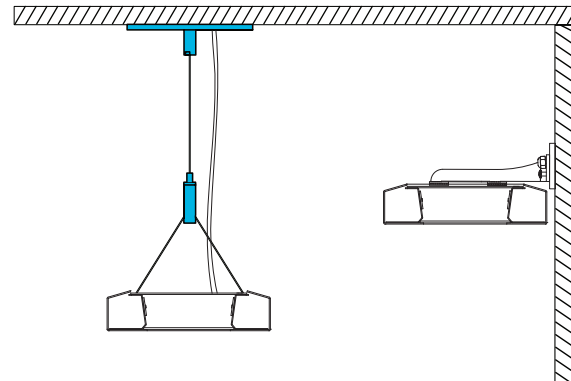
- All individual units cannot be joined, end caps are factory installed and cannot be removed
- Add 3/8" for each end cap or 3/4" to the overall length of the row
- Aperture sizes vary, 4' fixtures have a single 45-7/16" long aperture, 6' fixtures have two 33-11/16" long apertures, and 8' fixtures have two 45-7/16" long apertures

| 4 | 6 | 8 | — |
|---------------------------------------|--------------------|--------------------|--|
| Individual Fixture | Individual Fixture | Individual Fixture | Continuous Run |
| 48" (1,219mm) | 72" (1,829mm) | 96" (2,438mm) | Continuous rows available in 2' increments, starting at 4' |
| Specify to the 2', starting at 4' >>> | | | |

Mounting

- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 350"
- Adjustable aircraft cable mounts on 4'-0" (1,219mm), 6' (1,829mm) or 8'-0" (3,438mm) center
- End caps and standard white power cord attached at factory
- Aircraft Cable supplied with 5" (127mm) power and 2" (51mm) non-power canopies
- Canopies match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 17 lbs. per 4' fixture

| | |
|---------------|------------------------------------|
| AC_G1 | Adjustable AC to 1" (15/16") T-Bar |
| AC_G9 | Adjustable AC to 9/16" T-Bar |
| AC_GS | Adjustable AC to Screw Slot T-Bar |
| AC_JB | Adjustable AC to Junction Box |
| AC_ST | Adjustable AC to Structure |
| AC5_G | 5" (127mm) Non-Power Canopy |
| AC5_JB | 5" (127mm) Non-Power Canopy |
| SQ_G | 5" (127mm) Square Canopy |
| SQ_JB | 5" (127mm) Square Canopy |
| WA | Wall Mount |



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Voltage

- Some LINERO configurations will not accommodate all voltage options; consult with factory

| | |
|----------|-----------|
| U | Universal |
| 1 | 120 volt |
| 2 | 277 volt |
| 3 | 347 volt |

Driver

- Standard Driver Option = OL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some LINERO configurations will not accommodate all driver options; consult with factory

| | |
|------------|---|
| OL2 | Osram Optotronic 1%, 0-10v |
| OL3 | Osram Optotronic, 347v 10%, 0-10v (requires 347v) |
| OL5 | Osram Optotronic 1%, 0-10v, AUX |
| OD1 | Osram Optotronic 1%, DEXAL |
| EE1 | eldoLED ECOdrive 1%, 0-10v Logarithmic |
| EE6 | eldoLED ECOdrive 1%, for nLight Air Wireless |
| ES1 | eldoLED SOLOdrive 0%, DALI Logarithmic |
| ES6 | eldoLED SOLOdrive 0%, for nLight Air Wireless |
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
| L51 | Lutron 5-Series 5%, EcoSystem, LDE5 |
| PL2 | Advance Xitanium 1%, 0-10v |
| PR1 | Advance Xitanium SR, 5% |
| ND | Non-Dimming |

How to specify Circuiting, Battery and Emergency

- 1**
- Select fixture circuiting from options below
 - Some LINERO configurations will not accommodate all circuiting options, consult with factory

Circuiting

| | |
|----------|--------------------------|
| 1 | Single Circuit |
| M | Multi Circuit |
| E | Emergency Circuit only |
| N | Night Light Circuit only |

- 2** + **3**
- Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency section options below; factory shop drawing required
 - Some LINERO configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

- 0** No battery or specific emergency section required

Battery

- Select battery section type if required, indicate total QTY. *Example 2PL*
- 90 minute battery runtime; test button is integral to fixture
- For more battery options available, see Pinnacle Resource Guide

| | |
|------------|-----------------------------------|
| 0 | No battery |
| _IL | Iota 10w Integral (low profile) |
| _PL | Bodine 10w Integral (low profile) |

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

| | |
|-----------|---|
| _E | Emergency circuit section |
| _N | Night Light circuit section |
| _L | Life Safety circuit section NO THROUGH WIRE |
| _G | Bodine GTD, Generator Transfer Device section |

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery Ordering Code: E-1PL
- Single circuit, GTD required Ordering Code: 1-1G

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section
Ordering Code: 1-1PL1E
- Multi circuit, (2) 10w battery, (2) emergency sections
Ordering Code: M-2PL2E
- Single circuit, (1) night light section
Ordering Code: 1-1N



Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

| | |
|-----------|---|
| W | White <i>(white cord/white canopy)</i> |
| S | Metallic Silver <i>(grey cord/silver canopy)</i> |
| BL | Textured Black <i>(black cord/black canopy)</i> |
| BR | Bronze <i>(white cord/bronze canopy)</i> |
| GR | Graphite <i>(white cord/graphite canopy)</i> |
| CC | Custom Color <i>(white cord/color match canopy)</i> |

Fixture Options

- Additional options to enhance the fixture and finish of the product

QS Quick Ship

Quick Ship

| Distribution | | CRI, CCT & Output | Mounting | Voltage | Driver | Circuiting | Battery | Finish | | | | | | |
|--------------|-------------|---|----------|---------------|--------|------------|----------------|-----------------|------------------|----------------|-------------|------------|---------------|-------|
| 10-Day | | | | | | | | | | | | | | |
| 40 | 40% Direct | 80 CRI, All color temperatures, all lumen packages Including custom See pg 2-3 | AC__GX | Grid | U | Universal | OL2 | Osram 0-10v, 1% | 1 | Single Circuit | 1PL | Bodine 10w | W | White |
| 70 | 70% Direct | | AC__JB | Junction | | | (120 thru 277) | PL2 | Advance Xitanium | E | Emergency | | Integral | |
| 100 | 100% Direct | | AC__ST | Box Structure | 1 | 120 V | | LH1 | Lutron LDE1 | N | Night Light | | (low profile) | |
| | | | | 2 | 277V | | | | | | | | | |

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Consult factory for larger projects.

Controls

- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- One drop/sensor per run typical, contact factory for more information

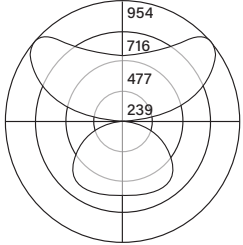
| | Solution | Components | Network/Sensor | Connection | Required Drivers | Limitations |
|--------------|------------------------------|--------------------|-----------------------------------|-----------------------|------------------|-----------------------------|
| DLMFC | Legrand Wattstopper DLM | LMFC-011 | Digital Lighting Management (DLM) | Wired, one RJ45 ports | Any 0-10v | Not available with Battery |
| EASYS | Philips EasySense | SNS-200 | Daylight/PIR Occupancy | Wireless to switches | PR1 | Not available with 347 volt |
| SNSLM | Osram Sensuslum | EN-CLM-PIR-DD-ZB | Encelium, Daylight/PIR Occupancy | Wireless | OD1, OL5 | Not available with 347 volt |
| WLVX | Eaton WaveLinx | SWPD1, MSP3IVMVDC1 | WaveLinx WCL, Daylight | Wireless | Any 0-10v | Not available with 347 volt |
| VDO | Lutron Vive Sensor | DFCSJ-OEM-OCC | Vive, Daylight/PIR Occupancy | Wireless | OD1, PR1 | Not available with 347 volt |
| VRF | Lutron Vive Connected | DFCSJ-OEM-RF | Vive | Wireless | OD1, PR1 | Not available with 347 volt |
| ENLI | Enlighted IOT | SU-5E-IOT, CU-4E | Enlighted, Daylight/PIR Occupancy | Wireless | Any 0-10v | Not available with 347 volt |
| ENLC | Enlighted Connected Lighting | SU-5E-CL, CU-4E | Enlighted, Daylight/PIR Occupancy | Wireless | Any 0-10v | Not available with 347 volt |



Photometrics

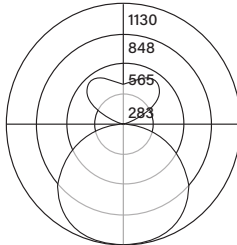
Satine Lens 40% Direct

| | |
|-----------|--------------------------|
| Test # | ITL90501-GONIOPHOTOMETRY |
| Catalog # | L8DI-A-40-835VHO-4 |
| Lumens | 4917 |
| Watts | 31.7 |
| Efficacy | 155.1104101 |



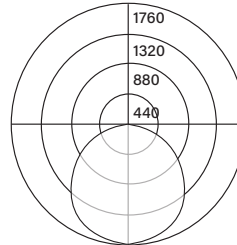
Satine Lens 70% Direct

| | |
|-----------|--------------------------|
| Test # | ITL90508-GONIOPHOTOMETRY |
| Catalog # | L8DI-A-70-840VHO-4 |
| Lumens | 5009 |
| Watts | 41.9 |
| Efficacy | 119.5 |



Satine Lens 100% Direct

| | |
|-----------|--------------------------|
| Test # | ITL90514-GONIOPHOTOMETRY |
| Catalog # | L8D-A-100-840VHO-4 |
| Lumens | 4971 |
| Watts | 39.5 |
| Efficacy | 125.8 |



Candela Distribution

| Vert Angle | Horizontal Angle | | | | |
|------------|------------------|------|-----|------|-----|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 637 | 637 | 637 | 637 | 637 |
| 5 | 635 | 636 | 637 | 639 | 639 |
| 15 | 625 | 625 | 639 | 650 | 651 |
| 25 | 595 | 599 | 627 | 651 | 658 |
| 35 | 542 | 552 | 590 | 621 | 632 |
| 45 | 466 | 477 | 516 | 548 | 558 |
| 55 | 367 | 377 | 408 | 434 | 443 |
| 65 | 253 | 260 | 279 | 296 | 303 |
| 75 | 132 | 135 | 144 | 152 | 157 |
| 85 | 30 | 31 | 32 | 33 | 35 |
| 90 | 0 | 0 | 0 | 0 | 0 |
| 95 | 55 | 62 | 92 | 114 | 111 |
| 100 | 113 | 129 | 213 | 268 | 263 |
| 105 | 164 | 196 | 335 | 416 | 418 |
| 115 | 255 | 309 | 519 | 661 | 673 |
| 125 | 321 | 389 | 613 | 829 | 862 |
| 135 | 368 | 440 | 618 | 880 | 954 |
| 145 | 408 | 473 | 589 | 747 | 832 |
| 155 | 454 | 496 | 568 | 631 | 656 |
| 165 | 506 | 519 | 550 | 573 | 583 |
| 175 | 540 | 542 | 544 | 547 | 549 |
| 180 | 545 | 545 | 545 | 545 | 545 |

Candela Distribution

| Vert Angle | Horizontal Angle | | | | |
|------------|------------------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1129 | 1129 | 1129 | 1129 | 1129 |
| 5 | 1125 | 1125 | 1126 | 1127 | 1127 |
| 15 | 1094 | 1092 | 1106 | 1116 | 1116 |
| 25 | 1023 | 1022 | 1053 | 1074 | 1078 |
| 35 | 912 | 918 | 957 | 986 | 996 |
| 45 | 767 | 778 | 817 | 847 | 858 |
| 55 | 597 | 606 | 637 | 663 | 671 |
| 65 | 407 | 413 | 433 | 449 | 457 |
| 75 | 212 | 215 | 223 | 230 | 233 |
| 85 | 48 | 48 | 49 | 51 | 50 |
| 90 | 0 | 0 | 0 | 0 | 0 |
| 95 | 13 | 17 | 19 | 16 | 13 |
| 100 | 32 | 37 | 40 | 39 | 34 |
| 105 | 63 | 69 | 71 | 71 | 69 |
| 115 | 166 | 177 | 187 | 193 | 201 |
| 125 | 267 | 304 | 352 | 384 | 394 |
| 135 | 330 | 383 | 456 | 504 | 520 |
| 145 | 363 | 412 | 495 | 543 | 559 |
| 155 | 376 | 407 | 473 | 519 | 534 |
| 165 | 374 | 386 | 419 | 447 | 458 |
| 175 | 367 | 368 | 372 | 376 | 378 |
| 180 | 366 | 366 | 366 | 366 | 366 |

Candela Distribution

| Vert Angle | Horizontal Angle | | | | |
|------------|------------------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1760 | 1760 | 1760 | 1760 | 1760 |
| 5 | 1752 | 1752 | 1751 | 1753 | 1754 |
| 15 | 1690 | 1681 | 1697 | 1706 | 1703 |
| 25 | 1555 | 1548 | 1579 | 1597 | 1600 |
| 35 | 1366 | 1363 | 1401 | 1426 | 1435 |
| 45 | 1130 | 1136 | 1172 | 1197 | 1206 |
| 55 | 871 | 873 | 903 | 925 | 934 |
| 65 | 590 | 593 | 610 | 624 | 632 |
| 75 | 305 | 306 | 314 | 320 | 324 |
| 85 | 68 | 69 | 69 | 71 | 73 |
| 90 | 0 | 0 | 0 | 0 | 0 |

Luminaire Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 12833 | 13310 | 13696 |
| 55 | 12194 | 12642 | 13076 |
| 65 | 11210 | 11590 | 12008 |
| 75 | 9463 | 9742 | 10052 |
| 85 | 6265 | 6357 | 6726 |

Luminaire Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 5249 | 5812 | 6285 |
| 55 | 5096 | 5665 | 6151 |
| 65 | 4768 | 5258 | 5710 |
| 75 | 4062 | 4431 | 4831 |
| 85 | 2741 | 2924 | 3198 |

Luminaire Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 8639 | 9202 | 9664 |
| 55 | 8290 | 8845 | 9317 |
| 65 | 7670 | 8160 | 8612 |
| 75 | 6524 | 6862 | 7170 |
| 85 | 4386 | 4478 | 4569 |



Approvals & Certifications

Construction: One piece die-formed 18 gauge steel housing in a 6-7/8" (174mm) by 1-11/16" (42mm) profile with a 1-3/8" (34mm) side profile. Standard 4'-0" (1,219mm), 6'-0" (1,828mm) and 8'-0" (3,438mm) fixtures can be joined to create continuous runs. Standard high reflectance die-formed white painted aluminum.

Shielding: Direct: white satine lens with matte finish. Indirect: 40/60 distribution uses a batwing diffuser, 70/30 distribution uses a perforated reflector and clear dust guard, 100 distribution uses a steel top cover. 4' fixtures have a single 45-7/16" long aperture, 6' fixtures have two 33-11/16" long apertures, and 8' fixtures have two 45-7/16" long apertures.

Mounting: Adjustable aircraft cable, or wall mounts available. Air Craft Cable mounts on 4'-0" (1,219mm), 6'-0" (1,828mm) and 8'-0" (3,438mm) centers. Refer to installation instructions for appropriate ceiling detail. Maximum fixture weight is 17 lbs. per 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection for 40%, 70% and 100%: L70 lifetime - 130,000 hours and L90 lifetime - 39,000 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

BIOS LED: Spectrum focused lighting for circadian stimulus. EML or M/P ratio: .8 for 3500K, .9 for 4000K. COI >3.0. Not all lumen packages available. Two lumen packages available. Standard, and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page.

CRI, CCT & Lumen Output: Two lumen packages available. Standard and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61. Fixture performance and photometric data based on 8' configuration for worst case input voltage. Published lumen or wattage data based on OL1 configuration.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 in Driver section when 347 volt (3) is selected. Some LINERO configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Osram 0-10V, 1% = OL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range for 40%, 70% and 100%: -23F/-30C to 125F/52C For more driver options, see Pinnacle Resource Guide. Some LINERO configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E), Night Light circuit (N) or Life Safety (L). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some LINERO configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish, consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: DLM utilizes wired network connections for digital control through switching and dimming with 0-10v LED drivers. nLight Air rIO module provides wireless control using eldoLED LED drivers. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PIR or PDT using eldoLED LED drivers. EasySense sensor provides daylight harvesting and PIR occupancy detection using the SR driver; the Philips app provides advanced configurations. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL LED driver. WaveLinx Connected Lighting sensor provides wireless control and daylight harvesting using 0-10V LED drivers. Lutron Vive sensor provides wireless control, daylight harvesting and PIR occupancy detection using DEXAL or SR LED drivers. Lutron Vive module provides wireless control using DEXAL or SR LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for IOT platform using 0-10v LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for Connected platform using 0-10v LED drivers.

Labels: UL and cUL Listed. Approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 17 lbs (per 4' fixture).

Buy American Act Compliant

Warranty: LINERO LED offered with a 5-year limited warranty. Covers LED, driver and fixture.