

# EDGE EX31

## 3" Suspended Indirect Linear

### Key Features

- 6063-T6 Extruded aluminum housing
- Room side maintenance for LED system
- 5-year limited warranty covers LED, driver and fixture
- ETL listed conforming to UL 1598 in US and CSA 250 in Canada
- Approved for dry/damp location unless otherwise noted
- Maximum weight is 20 lbs. for a standard 4' fixture
- Buy American Act compliant
- Run lengths Available to an 1/8"
- Indigo-Clean available, see Indigo-Clean specification sheets for details
- Product transparency with third-party verified Living Building Challenge (LBC) Declared



Example Part #: EX31-N-HE-830HO-26'-AC48G1-U-FSD-1-0-W

EX31 - **N** - **INDIRECT SHIELDING** - **SOURCE** - **LENGTH** - **MOUNTING** - **VOLTAGE** - **DRIVER** - **CIRCUITING** - **BATTERY & EMERGENCY** - **FINISH** - **FIXTURE OPTIONS**

|   |  |   |   |
|---|--|---|---|
| <b>N</b>  | ---  | -----   | ----  |
| <b>DIRECT SHIELDING</b>   | <b>INDIRECT SHIELDING</b>  | <b>SOURCE</b> <sup>Q<sub>S</sub></sup> <sup>1,2</sup>   | <b>LENGTH</b> <sup>3</sup>  |
| <b>N</b> - None<br><i>Shielding pg. 2</i>   | <b>HE</b> - High Efficiency <sup>Q<sub>S</sub></sup><br><b>BW</b> - Batwing <sup>Q<sub>S</sub></sup><br><b>WHE</b> - Asymmetric <sup>Q<sub>S</sub></sup><br><b>HEA</b> - Ascent<br><b>MOD</b> - Mod options available<br><i>Shielding pg. 2</i>          | <b>_27_</b> - 2700K<br><b>_30_</b> - 3000K<br><b>_35_</b> - 3500K<br><b>_40_</b> - 4000K<br><b>TW</b> - 2CH Tunable White (2700-6500K, 90CRI)<br><b>CL</b> - Custom Lumens<br><b>CW</b> - Custom Watts<br><b>MOD</b> - Mod options available<br><i>Lumen Output pg. 2-3</i>   | <b>_</b> - Individual Fixture <sup>Q<sub>S</sub></sup><br><b>_</b> - Continuous Row <sup>Q<sub>S</sub></sup><br><b>MOD</b> - Mod options available<br><i>Length pg. 3</i>   |
| -----   | -  | ---   | -   |
| <b>MOUNTING</b> <sup>4</sup>  | <b>VOLTAGE</b> <sup>5</sup>  | <b>DRIVER</b>   | <b>CIRCUITING</b> <sup>6</sup>  |
| <b>AC</b> - <b>G</b> - AC to Grid <sup>Q<sub>S</sub></sup><br><b>AC</b> - <b>JB</b> - AC to J Box <sup>Q<sub>S</sub></sup><br><b>AC</b> - <b>ST</b> - AC to Structure <sup>Q<sub>S</sub></sup><br><b>AC5</b> - <b>G</b> - 5" Non-Power Canopy<br><b>AC5</b> - <b>JB</b> - 5" Non-Power Canopy<br><b>SQ</b> - <b>G</b> - 5" Square Canopy<br><b>SQ</b> - <b>JB</b> - 5" Square Canopy<br><b>WA</b> - Wall Mount <sup>Q<sub>S</sub></sup><br><b>MOD</b> - Mod options available <i>Mounting pg. 4</i> | <b>U</b> - Universal (120 thru 277V) <sup>Q<sub>S</sub></sup><br><b>1</b> - 120V <sup>Q<sub>S</sub></sup><br><b>2</b> - 277V <sup>Q<sub>S</sub></sup><br><b>3</b> - 347V<br><i>Voltage pg. 4</i>   | <b>FSD</b> - Factory Select Driver (1%, 0-10v) <sup>Q<sub>S</sub></sup><br><b>PL2</b> - Advance Xitanium (1%, 0-10v)<br><b>OL2</b> - eldoLED Optotronic (1%, 0-10v)<br><b>OL4</b> - eldoLED Optotronic 347v (1%, 0-10v)<br><b>EE1</b> - eldoLED ECODrive (1%, 0-10v)<br><b>ES1</b> - eldoLED SOLOdrive (0.1%, 0-10v)<br><b>LH1</b> - Lutron Hi-lume (1%, EcoSystem)<br><b>PR1</b> - Advance Xitanium SR<br><b>MOD</b> - Mod options available <i>Driver pg. 5</i> | <b>1</b> - Single Circuit <sup>Q<sub>S</sub></sup><br><b>M</b> - Multi Circuit<br><b>E</b> - Emergency ( <i>entire fixture</i> ) <sup>Q<sub>S</sub></sup><br><b>N</b> - Night Light ( <i>entire fixture</i> ) <sup>Q<sub>S</sub></sup><br><i>Circuiting pg. 5</i>   |
| ---   | ---  | ---   | ---   |
| <b>BATTERY &amp; EMERGENCY</b> <sup>7</sup>   | <b>FINISH</b>  | <b>FIXTURE OPTIONS</b> <sup>8</sup>   | <b>CONTROLS</b> <sup>9</sup>  |
| <b>0</b> - None <sup>Q<sub>S</sub></sup><br><b>_FSB</b> - Factory Select Battery <sup>Q<sub>S</sub></sup><br><b>_FSG</b> - Factory Select ALCR<br><b>_GI</b> - Iota ETS DR<br><b>_GB</b> - Bodine GTD<br><b>_ILL</b> - Iota 10W Integral<br><b>_PLL</b> - Bodine 10W Integral<br><i>Battery and Emergency pg. 6</i>   | <b>W</b> - White <sup>Q<sub>S</sub></sup><br><b>S</b> - Metallic Silver <sup>Q<sub>S</sub></sup><br><b>BL</b> - Textured Black <sup>Q<sub>S</sub></sup><br><b>BR</b> - Bronze<br><b>GR</b> - Graphite<br><b>CC</b> - Custom Color<br><i>Finish pg. 6</i> | <b>QS</b> - Quick Ship <sup>Q<sub>S</sub></sup><br><b>DSP</b> - Customer Supplied Battery/Driver/<br>Sensor<br><b>MOD</b> - Mod options available<br><i>Fixture Options pg. 6</i>   | <b>DLMFS</b> - Wattstopper LLC (wireless)<br><b>EASYS</b> - Philips EasySense (wireless)<br><b>SNSLM</b> - Encelium Sensillum (wireless)<br><b>WVLX</b> - Eaton WaveLinX (wireless)<br><b>VDO</b> - Lutron Vive Sensor (wireless)<br><b>VRF</b> - Lutron Vive Connected (wireless)<br><b>MOD</b> - Mod options available<br><i>Controls pg. 7</i> |

<sup>1</sup>When specifying SOURCE the first \_ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending \_ \_ are for specifying output, example 835HO - 80CRI, 3500K High Output. See output charts for more information. <sup>2</sup>When specifying Tunable White, use **TW** and then specify output, example TWHO - Tunable White 90CRI, High Output 2700-6500K. See output charts for more information. Tunable White option requires driver option **FSD** which provides separate 0-10v control leads for Intensity and CCT. <sup>3</sup>Individual fixtures come in **2', 3', 4', 5', 6', 7' & 8'** lengths. Continuous row come in 1/8" increments. For Patterns specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. <sup>4</sup>Specify AC Cable: Standard single AC = **AC** or Movable AC = **MAC**; Specify AC length standard AC is 48"; Specify grid: **G1**=15/16", **G9**=9/16", **GS**=Screw Slot. Example: AC48G1 \*Tunable White (**TW**) option only available with Universal (**U**), 120V (**1**) or 277V (**2**) options. <sup>5</sup>Consult factory for Emergency (**E**) or Night Light (**N**) options with Tunable White (**TW**) option. <sup>6</sup>Enter quantity for Battery and Emergency, Example 2P. <sup>7</sup>When ordering QuickShip, **QS** must be used in fixture options section of part number to qualify. 1/8" increments not available for QS. <sup>8</sup>Controls can only be used with Single Circuit (**1**) or Emergency Circuit (**E**). See Controls chart on page 5 for driver options and more information.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



## Direct Shielding

| N    |
|------|
| None |

## Indirect Shielding

| HE              | BW                    | WHE                      | HEA                                       |
|-----------------|-----------------------|--------------------------|---|
| High Efficiency | Batwing<br>Over Optic | Asymmetric<br>Over Optic | Ascent<br>Not available with MAC mounting |
|                 |                       |                          |   |

## Shielding MOD Options

- Specify **MOD** in the part number for any of the below options
- MOD specifications are subject to longer lead-times. Consult factory for more information

| MOD | Clear lens overlay |
|-----|--------------------|
|-----|--------------------|

## Indirect Source

- Specify either 80 or 90 CRI for White light LED
- Longer lead-time may apply for 90 CRI or Tunable White option. Consult factory
- Tunable White option requires driver option FSD which provides separate 0-10V control leads for Intensity and CCT.
- Tunable White lumen packages shown at 4000K CCT setpoint
- 90 CRI = R9≥50

## Custom Output - Lumens OR Wattage

|                   |  |   |
|-------------------|--|---|
| <b>CL</b> _____   | Specify CRI, CCT and desired lumens (i.e. CL835500)      | Specify lumens between standard offering listed below. Lumens are specified per color temp              |
| <b>CW</b> _____   | Specify CRI, CCT and desired wattage (i.e. CW9407)       | Specify watts between standard offering listed below  |
| <b>CLTW</b> _____ | Specify desired lumens for Tunable White (i.e. CLTW3200) | Specify lumens between Tunable White offering listed below. Lumens are specified at 4000K CCT setpoint. |

### 80 CRI

|               | Color | Lumens<br>per foot | Shielding <sup>1</sup>       |          |                      |          |                          |          |                      |          |
|---------------|-------|--------------------|------------------------------|----------|----------------------|----------|--------------------------|----------|----------------------|----------|
|               |       |                    | HE<br>High Efficiency<br>LPW | Watts/ft | BW<br>Batwing<br>LPW | Watts/ft | WHE<br>Asymmetric<br>LPW | Watts/ft | HEA<br>Ascent<br>LPW | Watts/ft |
| <b>830</b>    | 3000K | 500                | 140                          | 3.6      | 131                  | 3.8      | 119                      | 4.2      | 125                  | 4.0      |
| <b>830HO</b>  |       | 750                | 146                          | 5.1      | 135                  | 5.5      | 119                      | 6.3      | 125                  | 6.0      |
| <b>830VHO</b> |       | 1000               | 147                          | 6.8      | 137                  | 7.3      | 122                      | 8.2      | 128                  | 7.8      |
| <b>835</b>    | 3500K | 500                | 145                          | 3.4      | 135                  | 3.7      | 123                      | 4.1      | 125                  | 4.0      |
| <b>835HO</b>  |       | 750                | 151                          | 5.0      | 141                  | 5.3      | 122                      | 6.1      | 129                  | 5.8      |
| <b>835VHO</b> |       | 1000               | 148                          | 6.8      | 141                  | 7.1      | 126                      | 8.0      | 133                  | 7.5      |
| <b>840</b>    | 4000K | 500                | 145                          | 3.4      | 135                  | 3.7      | 123                      | 4.1      | 125                  | 4.0      |
| <b>840HO</b>  |       | 750                | 151                          | 5.0      | 141                  | 5.3      | 122                      | 6.1      | 129                  | 5.8      |
| <b>840VHO</b> |       | 1000               | 148                          | 6.8      | 141                  | 7.1      | 126                      | 8.0      | 133                  | 7.5      |

### 90 CRI

|               |       |      |     |     |     |     |     |      |     |     |
|---------------|-------|------|-----|-----|-----|-----|-----|------|-----|-----|
| <b>927</b>    | 2700K | 500  | 118 | 4.2 | 110 | 4.5 | 99  | 5.1  | 102 | 4.9 |
| <b>927HO</b>  |       | 750  | 118 | 6.4 | 110 | 6.8 | 98  | 7.6  | 104 | 7.2 |
| <b>927VHO</b> |       | 1000 | 121 | 8.3 | 113 | 8.9 | 100 | 10.0 | 105 | 9.5 |
| <b>930</b>    | 3000K | 500  | 124 | 4.0 | 120 | 4.2 | 105 | 4.7  | 111 | 4.5 |
| <b>930HO</b>  |       | 750  | 129 | 5.8 | 120 | 6.3 | 107 | 7.0  | 111 | 6.8 |
| <b>930VHO</b> |       | 1000 | 132 | 7.6 | 123 | 8.2 | 108 | 9.3  | 114 | 8.8 |
| <b>935</b>    | 3500K | 500  | 124 | 4.0 | 120 | 4.2 | 105 | 4.8  | 111 | 4.5 |
| <b>935HO</b>  |       | 750  | 128 | 5.8 | 119 | 6.3 | 107 | 7.0  | 110 | 6.8 |
| <b>935VHO</b> |       | 1000 | 132 | 7.6 | 122 | 8.2 | 107 | 9.3  | 113 | 8.8 |
| <b>940</b>    | 4000K | 500  | 124 | 4.0 | 120 | 4.2 | 105 | 4.8  | 111 | 4.5 |
| <b>940HO</b>  |       | 750  | 128 | 5.8 | 119 | 6.3 | 107 | 7.0  | 110 | 6.8 |
| <b>940VHO</b> |       | 1000 | 132 | 7.6 | 122 | 8.2 | 107 | 9.3  | 113 | 8.8 |

## 2 CH Tunable White (2700-6500K, 90CRI)

|              |                 |      |       |     |       |     |     |     |
|--------------|-----------------|------|-------|-----|-------|-----|-----|-----|
| <b>TW</b>    | 2700 -<br>6500K | 500  | 118.4 | 4.2 | 109.6 | 4.6 | N/A | N/A |
| <b>TWHO</b>  |                 | 750  | 114.3 | 6.6 | 105.4 | 7.1 |     |     |
| <b>TWVHO</b> |                 | 1000 | 110.3 | 9.1 | 101.3 | 9.9 |     |     |



Indirect Source: MOD Options

- Specify **MOD** in the part number for any of the below options
- All RGB\_ Source Options will require specific driver and control
- Consult factory for **MOD** specification details, pricing, and lead-time information

| MOD |                          | Required Driver | Required Control |
|-----|--------------------------|-----------------|------------------|
|     |                          | EC1/EC4         | DMX              |
|     | Color Changing RGB LED   |                 |                  |
|     | Color Changing RGB-W LED | EC1/EC4         | DMX              |

Length

- Individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, add 3/16" (4.7mm) for each end plate or 3/8" (9.5mm) to the overall length of the row
- For patterns, refer to Pattern section on next page

| 2                        | 3              | 4              | 5              | 6              | 7              | 8              | —  |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Indiv. Fixture           | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Cont. Run  |
| 24-3/8" (619.1mm)        |                |                |                |                |                |                | Specify nominal overall row length to the 1/8" Longer lead-time may apply for lengths to the 1/8" Consult factory. |
| 36-3/8" (934.8mm)        |                |                |                |                |                |                |  |
| 48-3/8" (1228.7mm)       |                |                |                |                |                |                |  |
| 60-3/8" (1533.5mm)       |                |                |                |                |                |                |  |
| 72-3/8" (1838.3mm)       |                |                |                |                |                |                |  |
| 84-3/8" (2143.1mm)       |                |                |                |                |                |                |  |
| 96-3/8" (2447.9mm)       |                |                |                |                |                |                |  |
| Specify to the 1/8" >>>> |                |                |                |                |                |                |  |

Length or Pattern: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

| MOD | Specify MOD for patterns, lengths or angles not shown above |
|-----|---|
|     | 45- 180 degree angles                                       |
|     | Single-piece welded housings up to 4' x 4                   |

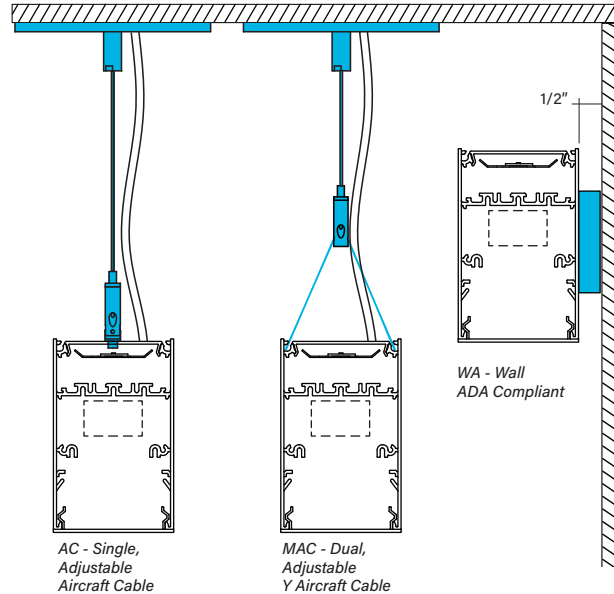


## Mounting

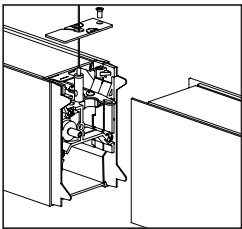
- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable, specify 48", 120", 240", or 350"
- End plates and standard white power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Maximum recommended movable mounting locations are 12" from end of 4' fixture and 18" from end of 8' fixture
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies and pendants match fixture finish, power cords are white 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 20 lbs for a standard 4' fixture
- MAC options not available with HEA lens option
- For a wall mounted fixture with an indirect asymmetric lens, light will be directed away from the wall as a standard

|                |  |
|----------------|--|
| <b>AC_G1</b>   | Aircraft Cable 1" (15/16") T-Bar           |
| <b>AC_G9</b>   | Aircraft Cable 9/16" T-Bar                 |
| <b>AC_GS</b>   | Aircraft Cable Screw Slot T-Bar            |
| <b>AC_JB</b>   | Aircraft Cable Junction Box                |
| <b>AC_ST</b>   | Aircraft Cable Structure                   |
| <b>AC5_G</b>   | Aircraft Cable 5" (127mm) Non-Power Canopy |
| <b>AC5_JB</b>  | Aircraft Cable 5" (127mm) Non-Power Canopy |
| <b>SQ_G</b>    | Aircraft Cable 5" (127mm) Square Canopy    |
| <b>SQ_JB</b>   | Aircraft Cable 5" (127mm) Square Canopy    |
| <b>MAC_G1</b>  | Movable AC 1" (15/16") T-Bar               |
| <b>MAC_G9</b>  | Movable AC 9/16" T-Bar                     |
| <b>MAC_GS</b>  | Movable AC Screw Slot T-Bar                |
| <b>MAC_JB</b>  | Movable AC Junction Box                    |
| <b>MAC_ST</b>  | Movable AC Structure                       |
| <b>MAC5_G</b>  | Movable AC 5" (127mm) Non-Power Canopy     |
| <b>MAC5_JB</b> | Movable AC 5" (127mm) Non-Power Canopy     |
| <b>MSQ_G</b>   | Movable AC 5" (127mm) Square Canopy        |
| <b>MSQ_JB</b>  | Movable AC 5" (127mm) Square Canopy        |
| <b>WA</b>      | Wall Mount                                 |



## Straight EDGE Joint System



- The Straight EDGE Joint comes standard for all runs.
- Two connection points – one to cinch fixtures together, the other to perfectly align all fixtures in a run.
- Factory-installed light shields on both sides of the fixture ensure no light leaks.
- Patented.

## Mounting: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

|            |                       |
|------------|-----------------------|
| <b>MOD</b> | Recessed to Suspended |
|            | Pendant Pipe          |

## Voltage

- Some EX3I configurations will not accommodate all voltage options; consult with factory
- 347 volt not available with Tunable White (TW) option

|          |           |
|----------|-----------|
| <b>U</b> | Universal |
| <b>1</b> | 120 volt  |
| <b>2</b> | 277 volt  |
| <b>3</b> | 347 volt  |



## Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX3I configurations will not accommodate all driver options; consult with factory

### 0-10V Drivers

|            |   |
|------------|---|
| <b>FSD</b> | Factory Select Driver 1%, 0-10v                         |
| <b>PL2</b> | Signify Advance Xitanium 1%, 0-10v                      |
| <b>PL4</b> | Advance Xitanium 347v 1%, 0-10v, requires 347v          |
| <b>OL2</b> | eldoLED Optotronic 1%, 0-10v                            |
| <b>OL4</b> | eldoLED Optotronic 347v, 1% 0-10v, requires 347v option |
| <b>EE1</b> | eldoLED ECOdrive 1%, 0-10v Logarithmic                  |
| <b>EE2</b> | eldoLED ECOdrive 1%, 0-10v Linear                       |
| <b>ES1</b> | eldoLED SOLOdrive 0-10v, 0.1% Logarithmic               |
| <b>ES2</b> | eldoLED SOLOdrive 0-10v, 0% Linear                      |
| <b>OL5</b> | Advance Xitanium 1%, 0-10v, AUX, Dim to Off             |
| <b>PL5</b> | eldoLED Optotronic 1%, 0-10v, AUX, Dim to Off           |

### DALI Drivers

|            |  |
|------------|--|
| <b>EE3</b> | eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6    |
| <b>ES3</b> | eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6 |
| <b>OD1</b> | eldoLED Optotronic 1%, DEXAL                     |
| <b>EE4</b> | eldoLED ECOdrive 1%, DALI 2, Linear, DT6         |
| <b>ES4</b> | eldoLED SOLOdrive 0.1%, DALI 2, Linear, DT6      |
| <b>PR1</b> | Advance Xitanium SR, DALI 2, Self powered link   |

### Lutron Drivers

|            |   |
|------------|---|
| <b>LH1</b> | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
|------------|---|

### Alternate Drivers

|            |  |
|------------|--|
| <b>PS1</b> | Signify Advance Xitanium Step Dimming 50%/100% |
| <b>EH1</b> | ELV 120v only, 0-10v universal                 |

## Driver: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

|            |                     |
|------------|---------------------|
| <b>MOD</b> | Power Over Ethernet |
|------------|---------------------|

## How to specify Circuiting, Battery and Emergency

1

- Select fixture circuiting from options below
- Some EX3I configurations will not accommodate all circuiting options, consult with factory
- Consult factory for Emergency (E) or Night Light (N) circuit with Tunable White (TW)

## Circuiting

|          |                          |
|----------|--------------------------|
| <b>1</b> | Single Circuit           |
| <b>M</b> | Multi Circuit            |
| <b>E</b> | Emergency Circuit only   |
| <b>N</b> | 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 EX3I configurations will not accommodate all circuiting options, consult with factory

## Battery and/or Emergency If Required

|          |   |
|----------|---|
| <b>0</b> | 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 remote to fixture and requires an additional drop
- No battery option available for 2' lengths
- Entire direct fixture housing is on battery for lengths up to 5'

- Half of direct fixture is on battery for 6' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide
- For Tunable White (TW) option, battery will illuminate 6500K LED unless otherwise specified

|               |  |
|---------------|--|
| <b>0</b>      | No Battery                                 |
| <b>_FSB</b>   | Factory Select Battery (10w option)        |
| <b>_FSBST</b> | Factory Select Battery (10w, Self Testing) |
| <b>_PLL</b>   | Bodine 10w Integral Lithium, Self Testing  |
| <b>_ILL</b>   | Iota 10w Integral Lithium, Self Testing    |

### 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

## Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected
- Consult factory for Emergency Control Devices with Tunable White (TW) option

|             |  |
|-------------|--|
| <b>_FSG</b> | Factory Select ALCR Emergency Control Device, UNV  |
| <b>_GI</b>  | Iota ETS-DR, Emergency Control Device, UNV         |
| <b>_GB</b>  | Bodine GTD, Emergency Control Device, 120v or 277v |
| <b>_E</b>   | Emergency circuit section                          |
| <b>_N</b>   | Night Light circuit section                        |
| <b>_L</b>   | Life Safety circuit section NO THROUGH WIRE        |

### Battery OR Emergency Ordering Examples

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

## 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

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

## Fixture Options

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

|            |   |
|------------|---|
| <b>QS</b>  | 10 day Quick Ship                       |
| <b>DSP</b> | Customer Supplied Battery/Driver/Sensor |

## Fixture Options: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

|            |                |
|------------|----------------|
| <b>MOD</b> | Remote Driver  |
|            | End Power Feed |

## Quick Ship

| Shielding       | CRI, CCT & Output   | Mounting                                    | Voltage   | Driver          | Circuiting                          | Battery                | Finish  |           |                                |              |                          |
|-----------------|---|---|---|-----------------|-------------------------------------|------------------------|---|-----------|--------------------------------|--------------|--------------------------|
| 10-Day          |   |   |   |                 |                                     |                        |   |           |                                |              |                          |
| HE<br>BW<br>WHE | 80 CRI, all color temperatures, all lumen packages<br><i>See pg 2</i> | (M)AC48G<br>(M)AC48JB<br>(M)AC48ST<br><br>W | (M)AC to Grid<br>(M)AC to J-BOX<br>(M)AC to Structure<br>Wall Mount | U<br><br>1<br>2 | Universal (120-277)<br>120V<br>277V | FSD<br><br>1<br>E<br>N | Factory Select Driver (1%, 0-10v)<br><br>Single Circuit<br>Emergency<br>Night Light | 0<br>_FSB | None<br>Factory Select Battery | W<br>S<br>BL | White<br>Silver<br>Black |

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

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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## 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 per sensor typical, consult factory for more information
- Must specify required driver in Driver section
- Consult factory for available Controls with Tunable White (TW) option

|              | Solution                 | Components            | Network/Sensor                   | Connection           | Required Drivers  | Limitation                  |
|--------------|--------------------------|-----------------------|----------------------------------|----------------------|-------------------|-----------------------------|
| <b>DLMFS</b> | Legrand Wattstopper LLLC | LMFS-601-W / LMFI-111 | Wireless DLM Fixture Sensor      | Wireless             | OD1, PR1 or 0-10V | 0-10v requires interface    |
| <b>EASYS</b> | Philips EasySense        | SNS-210               | Daylight/PIR Occupancy           | Wireless to switches | PR1               | Not available with 347 volt |
| <b>SNSLM</b> | Encelium Sensilum        | EN-CLM-PIR-DD-ZB      | Encelium, Daylight/PIR Occupancy | Wireless             | OD1, OL5          | Not available with 347 volt |
| <b>WLVX</b>  | Eaton Wavelinx           | SWPD1, NSP3IVMVD1     | WaveLinx WCL, Daylight           | Wireless             | Any 0-10v         | Not available with 347 volt |
| <b>VDO</b>   | Lutron Vive Sensor       | DFCSJ-OEM-OCC         | Vive, Daylight/PIR Occupancy     | Wireless             | OD1, PR1          | Not available with 347 volt |
| <b>VRF</b>   | Lutron Vive Connected    | DFCSJ-OEM-RF          | Vive                             | Wireless             | OD1, PR1          | Not available with 347 volt |

## Controls: MOD Options

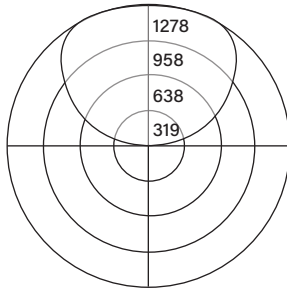
- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

| MOD | Encelium Sensilum                    | Required Driver |
|-----|--------------------------------------|-----------------|
|     | Enlighted (Wireless) - ENLI          | OD1, OL5        |
|     | Enlighted (Wireless) - ENLC          | Any 0-10v       |
|     | Acuity nLight Air Wireless Connected | Any 0-10v       |
|     |                                      | EE6, ES6        |

## Photometrics

### Open

Test # Scaled from ITL94462  
Catalog # EX3I-HE-840VHO-4  
Lumens 4000 lm  
Watts 27 w  
Efficacy 148 LPW



### Candela Distribution

| Vert Angle | Horizontal Angle |      |      |      |      |
|------------|------------------|------|------|------|------|
|            | 0                | 23   | 45.0 | 68   | 90   |
| 90         | 4                | 57   | 61   | 44   | 39   |
| 95         | 47               | 121  | 153  | 120  | 105  |
| 100        | 106              | 184  | 245  | 213  | 194  |
| 105        | 175              | 252  | 341  | 338  | 324  |
| 110        | 254              | 335  | 428  | 458  | 460  |
| 115        | 352              | 428  | 522  | 561  | 575  |
| 120        | 458              | 533  | 620  | 663  | 675  |
| 125        | 579              | 642  | 727  | 763  | 778  |
| 130        | 695              | 757  | 835  | 869  | 880  |
| 135        | 807              | 861  | 946  | 976  | 986  |
| 140        | 904              | 955  | 1048 | 1084 | 1093 |
| 145        | 996              | 1029 | 1124 | 1171 | 1187 |
| 150        | 1072             | 1095 | 1171 | 1220 | 1236 |
| 155        | 1138             | 1149 | 1207 | 1243 | 1257 |
| 160        | 1189             | 1194 | 1234 | 1258 | 1266 |
| 165        | 1229             | 1230 | 1254 | 1268 | 1272 |
| 170        | 1255             | 1257 | 1267 | 1275 | 1276 |
| 175        | 1270             | 1271 | 1273 | 1275 | 1277 |
| 180        | 1275             | 1275 | 1275 | 1275 | 1275 |

For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com). Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions.

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## Applications & Certificates

**Construction:** 6063-T6 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

**Shielding:** Diffuse snap in lens or over optic. High Efficiency (HE) & Ascent (HEA) are snap in options. Batwing (BW) & Asymmetric (WHE) are over optics.

**Mounting:** Aircraft cable and wall mount available. The aircraft cable mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 20 lbs for a standard 4' fixture.

**White LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. 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. TM-21-21 Lifetime Rating L70 = >72,000 hours, L90 = 69,700 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**Tunable White LED:** 2 channel solution with 2700K and 6500K LED, 90CRI only, R9 >50. Lumen packages available shown at 4000K CCT setpoint, lumen output varies based on CCT. Use multipliers for other CCT; 2700K = .91 3000K = .93 3500K = .97 4000K = 1.0 5000K = 1.044 6500K = 1.078.

**CRI, CCT & Lumen Output:** Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). 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. 90 CRI = R9≥50.

**Voltage:** Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. 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: -20°F/-30°C to 122°F/50°C. For more driver options, see Pinnacle Resource Guide. Some EDGE configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E) or Night Light circuit (N). Some EX 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 remote to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish:** Standard powder-coat textured white, metallic silver, graphite, textured black 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:** Standard options available, refer to Controls section table for available options, component part number(s), connection type, required driver and limitations. Mod options available, consult with factory.

**Labels:** ETL listed conforming to UL 1598 in US and CSA 250 in Canada. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

**Sustainability:** All models are Living Building Challenge (LBC) Declared with third-party verification. The Declare Label from ILFI provides transparent insights into materials, sourcing, and environmental impact, promoting informed, sustainable choices that benefit both people and the planet. View the label [here](#).

**Fixture Weight:** Maximum fixture weight is 20 lbs for a standard 4' fixture.

**Buy American Act Compliant**

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