

# EDGE EV3WG

## 3" Recessed Linear Wall Grazer

### Key Features

- Extruded aluminum trim with formed cold rolled 20 gauge steel back box housing
- Edge Evolution Wall Grazer is designed to highlight textured wall surfaces
- Not recommended for smooth surfaces
- Offered with a 5-year limited warranty. Covers LED, driver and fixture
- UL and cUL listed. IC rated
- Approved for dry/damp location unless otherwise noted
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: EV3WG-830HO-26'-G1-U-OL2-1-0-W

**EV3WG** - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS

| -----   | -----   | -----  | ----  |
|---|---|--|---|
| CRI, CCT & OUTPUT   | LENGTH OR PATTERN <sup>1</sup>  | MOUNTING <sup>2</sup>  | VOLTAGE   |
| <b>27</b> _ - 2700K<br><b>30</b> _ - 3000K<br><b>35</b> _ - 3500K<br><b>40</b> _ - 4000K<br><b>CL</b> _ _ _ - Custom Lumens<br><b>CW</b> _ _ _ - Custom Watts<br><i>Lumen Output pg. 2</i><br>Example: 830HO is <b>8</b> = 80 CRI; <b>30</b> = 3000K;<br>HO = High Output; Blank = Standard Output  | _ _ - Individual Fixture<br>_ _ - Continuous Row<br><b>LI</b> _ <b>x</b> _ - Inside L Shape<br><b>LO</b> _ <b>x</b> _ - Outside L Shape<br><b>RI</b> _ <b>x</b> _ - Inside Rectangle<br><b>RO</b> _ <b>x</b> _ - Outside Rectangle<br><b>SI</b> _ - Inside Square<br><b>SO</b> _ - Outside Square<br><b>M</b> - Mod Layout<br><i>Length and Pattern pg. 2-3</i> | <b>G1(G)</b> - 1" (15/16") T Bar<br><b>G9(G)</b> - 9/16" T Bar<br><b>GS(G)</b> - Screw Slot T Bar<br><b>FL(F)</b> - 1/2" Flange<br><b>NF(N)</b> - Non Flange<br><b>SF(S)</b> - Spackle Flange<br><i>Mounting pg. 3</i>   | <b>U</b> - Universal (120 thru 277V)<br><b>1</b> - 120V<br><b>2</b> - 277V<br><b>3</b> - 347V<br><i>Voltage pg. 4</i>   |
| -----   | -   | ---  | ---   |
| DRIVER  | CIRCUITING  | BATTERY & EMERGENCY <sup>3</sup>   | FINISH  |
| <b>FSD</b> - Factory Select Driver (1%, 0-10v)<br><b>PL2</b> - Advance Xitanium (1%, 0-10v)<br><b>OL4</b> - Osram 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>PS1</b> - Advance Xitanium (50%/100%)<br><b>OL2</b> - Osram (1%, 0-10v)<br><i>Driver pg. 4</i> | <b>1</b> - Single Circuit<br><b>M</b> - Multi Circuit<br><b>E</b> - Emergency (entire fixture)<br><b>N</b> - Night Light (entire fixture)<br><i>Circuiting pg. 5</i>  | <b>0</b> - None<br><b>_FSG</b> - Factory Select ALCR<br><b>_FSB</b> - Factory Select Battery<br><b>_GI</b> - Iota ETS DR<br><b>_GB</b> - Bodine GTD<br><b>_P</b> - Bodine 10W<br><b>_IC</b> - Iota 10W (CEC Listed)<br><b>_E</b> - Emergency Circuit Section<br><b>_N</b> - Night Light Circuit Section<br><b>_L</b> - Life Safety Circuit Section<br><i>Battery and Emergency pg. 5</i> | <b>W</b> - White<br><b>S</b> - Metallic Silver<br><b>BL</b> - Textured Black<br><b>BR</b> - Bronze<br><b>GR</b> - Graphite<br><b>CC</b> - Custom Color<br><i>Finish pg. 5</i> |
| ---   |   |  |   |
| FIXTURE OPTIONS   | CONTROLS  |  |   |
| <b>CP</b> - Chicago Plenum<br><b>DSP</b> - Customer Supplied Battery/Driver/<br>Sensor<br><b>EF</b> - End Filler<br><i>Fixture Options pg. 5</i>  | Pinnacle is able to accommodate different control<br>solutions from different manufacturers. Consult<br>Factory for more information.   |  |   |

<sup>1</sup> Individual fixtures come in 2', 3', 4', 5', 6', 8' lengths. Continuous row come in 1' increments. For Patterns, specify pattern shape and overall dimensions. Example: LO6x4: L pattern that is 6'x4' <sup>2</sup>Specify mounting for individual or continuous length: G1, G9, GS, FL, NF & SF for continuous rows, G1G, G9G, GSG, FLF, NFN, SFS for individual lengths. <sup>3</sup> Enter quantity for Battery and Emergency, Example 2P.

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.



## CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 90 CRI = R9≥50

## Custom Output- Lumens OR Wattage

|                 |   |  |
|-----------------|---|--|
| <b>CL</b> _____ | Specify CRI, CCT and desired lumens (i.e. CL835400) | 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                                       |

## 80 CRI

|              | Color | Output   | Watts<br>per foot | Shielding<br>WG<br>Wall Grazer<br>Lumens/ft | LPW  |
|--------------|-------|----------|-------------------|---|------|
| <b>830</b>   | 3000K | Standard | 6.0               | 303   | 50.3 |
| <b>830HO</b> | 3000K | High     | 10.3              | 479   | 46.6 |
| <b>835</b>   | 3500K | Standard | 6.0               | 316   | 52.4 |
| <b>835HO</b> | 3500K | High     | 10.3              | 500   | 48.7 |
| <b>840</b>   | 4000K | Standard | 6.0               | 324   | 53.8 |
| <b>840HO</b> | 4000K | High     | 10.3              | 513   | 49.9 |

## 90 CRI

|              |       |          |      |     |      |
|--------------|-------|----------|------|-----|------|
| <b>927</b>   | 2700K | Standard | 6.0  | 249 | 41.3 |
| <b>927HO</b> | 2700K | High     | 10.3 | 393 | 38.2 |
| <b>930</b>   | 3000K | Standard | 6.0  | 280 | 46.5 |
| <b>930HO</b> | 3000K | High     | 10.3 | 442 | 43.0 |
| <b>935</b>   | 3500K | Standard | 6.0  | 285 | 47.3 |
| <b>935HO</b> | 3500K | High     | 10.3 | 450 | 43.8 |
| <b>940</b>   | 4000K | Standard | 6.0  | 290 | 48.1 |
| <b>940HO</b> | 4000K | High     | 10.3 | 458 | 44.6 |

## Length

- Individual units cannot be joined, end plates are factory installed and cannot be removed
- Refer to Pattern section for specification and ordering options
- Continuous Rows are made up of even and odd length fixtures; designed to fall on-grid

| 2              | 3              | 4              | 5              | 6              | 8              | —                    |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
| Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Cont. Run            |
| 23" (584.2mm)  |                |                |                |                |                | Customizable         |
|                | 35" (889mm)    |                |                |                |                | length using field   |
|                |                | 47" (1193.8mm) |                |                |                | cutable non-illu-    |
|                |                |                | 59" (1498.6mm) |                |                | minated end fillers  |
|                |                |                |                | 71" (1803.4mm) |                | - max. length of 12" |
|                |                |                |                |                | 95" (2413mm)   | per side.            |
|                |                |                |                |                |                |                      |

Specify length >>>

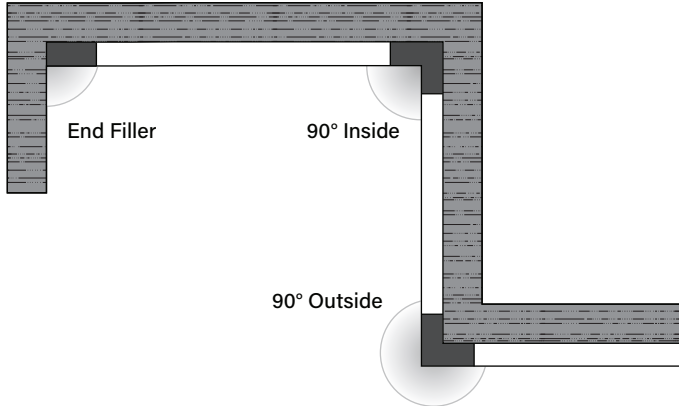


## Pattern

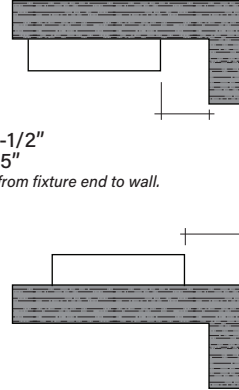
- Grazer is a complete perimeter lighting solution that includes inside corners, outside corners, and end fillers
- Corners are 90 degree and allow for +/- 5 degrees of adjustability to accommodate wall imperfections
- Specify runs to the nearest foot. Corners are slid into place to finish the perimeter lighting

- Field cut End Fillers have a maximum length of 6"
- Inside and Outside corners are field cut. Detailed length information will be on Factory Drawings
- End Fillers, Inside and Outside Corners are all Non-illuminated.
- See installation instructions for detailed information

| SI_  | SO_ | RI_x  | RO_x | UI_x_x  | UO_x_x | LI_x  | LO_x | M   |
|--|-----|---|------|---|--------|---|------|---|
| Square, Inside (SI) or Outside (SO)<br>Provide overall length dimension for each fixture leg |     | Rectangle, Inside (RI) or Outside (RO)<br>Provide overall length dimension for each fixture leg |      | U-Shape, Inside (UI) or Outside (UO)<br>Provide overall length dimension for each fixture leg |        | L-Shape, Inside (LI) or Outside (LO)<br>Provide overall length dimension for each fixture leg |      | Mod Layout<br>For 45 degrees, patterns or lengths not shown or standard |



Inside Corners:  
Min. Length - 6-1/2"  
Max. Length - 15"  
Length is measured from fixture end to wall.



Outside Corners:  
Min. Length - 0"  
Max. Length - 5-1/2"  
Length is measured from fixture end to wall.

All fixture lengths within a pattern will be rounded to the nearest foot. End fillers and Corners (both field cut) will be used to complete the pattern. Factory Drawings will reflect all fixture, corner, and end filler locations and will need to be approved before an order is entered.

## Mounting

- Individual Units: specify G\_G, FLF, SFS, NFN
- Continuous Units: specify G\_, FL, SF, NF
- All individual units cannot be joined, end trims are factory installed and cannot be removed
- Designed to install into acoustical grid and inaccessible ceilings

- Grid retention brackets integral to housing and require mechanical attachment
- Each housing contains 4 grid retention brackets
- Tie off fixture to structure with retention wires
- Approved for dry/damp location unless otherwise noted

| G1G Individual Unit          | G9G   | GBG  | GSG   | FLF                                 | NFN                   | SFS                        |
|------------------------------|---|--|---|-------------------------------------|-----------------------|----------------------------|
| G1 Continuous Run or Pattern | G9  | GB   | GS  | FL                                  | NF                    | SF                         |
| 1" (15/16") T-Bar            | 9/16" T-Bar<br>For tegular tile installations, fixture position will not be flush to the bottom of the tile | 9/16" T-Bar<br>Rail has bevel edge details. For tegular tile installations, fixture position will be flush to the bottom of the tile | Screw Slot & 9/16" T-Bar<br>For 9/16" installations with tegular tile, fixture position will be flush to the bottom of the tile | Exposed Standard 1/2" Flange Detail | Metal Pan or Millwork | Drywall, Flangeless Detail |
|                              |   |  |   |                                     |                       |                            |
| Standard Tile                | Standard Tile   | Tegular Tile   | Tegular Tile  |                                     |                       |                            |
|                              |   |  |   |                                     |                       |                            |
| Tegular Tile                 | Tegular Tile  |  | Tegular Tile  |                                     |                       |                            |

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## Voltage

- Some EV3WG configurations will not accommodate all voltage options; consult with factory

|          |           |
|----------|-----------|
| <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 EV3WG 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>        | Osram Optotronic, 1%, 0-10v                               |
| <b>OL4</b>        | Osram 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                        |
| DALI Drivers      |   |
| <b>EE3</b>        | eldoLED ECOdrive .1%, DALI (logarithmic)                  |
| <b>ES3</b>        | eldoLED SOLOdrive .1%, DALI (logarithmic)                 |
| <b>OD1</b>        | Osram Optotronic 1%, DEXAL                                |
| <b>OD2</b>        | Osram Optotronic 1%, DALI 2 Channel                       |
| Lutron Drivers    |   |
| <b>LH1</b>        | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
| <b>LH4</b>        | Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only       |
| Alternate Drivers |   |
| <b>PS1</b>        | Signify Advance Xitanium Step Dimming 50%/100%            |
| <b>EH1</b>        | ELV 120v only, 0-10v universal                            |

## How to specify Circuiting, Battery and Emergency

1

- Select fixture circuiting from options below
- Some EV3WG configurations will not accommodate all circuiting options, consult with factory

## 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 EV3WG 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 2P*
- 90 minute battery runtime; test button is remote
- No battery option available for 2' lengths
- Entire fixture is on battery for lengths up to 5'
- Half of fixture is on battery for 6' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

|               |   |
|---------------|---|
| <b>0</b>      | No Battery                                |
| <b>_FSB</b>   | Factory Select Battery (10w option)       |
| <b>_FSBST</b> | Factory Select Battery (Self Testing)     |
| <b>_IC</b>    | Iota 10w Integral                         |
| <b>_ILL</b>   | Iota 10w Integral Lithium, Self Testing   |
| <b>_IRH</b>   | Iota 20w Remote                           |
| <b>_P</b>     | Bodine 10w Integral                       |
| <b>_PLL</b>   | Bodine 10w Integral Lithium, Self Testing |
| <b>_PRH</b>   | Bodine 20w Remote                         |

### 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

|             |  |
|-------------|--|
| <b>_FSG</b> | Factory Select Automatic Load Control Relay (ALCR), UNV          |
| <b>_GI</b>  | Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV |
| <b>_GB</b>  | Bodine GTD, Generator Transfer 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: 1-1P
- Emergency only, 10w Integral Battery      Ordering Code: E-1P
- Single circuit, GTD required      Ordering Code: 1-1G

### Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section      Ordering Code: 1-1P1E
- Multi circuit, (2) 10w battery, (2) emergency sections      Ordering Code: M-2P2E
- 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

|           |                 |
|-----------|-----------------|
| <b>W</b>  | White           |
| <b>S</b>  | Metallic Silver |
| <b>BL</b> | Textured Black  |
| <b>GR</b> | Graphite        |
| <b>BR</b> | Bronze          |
| <b>CC</b> | Custom Color    |

## Fixture Options

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

|            |   |
|------------|---|
| <b>CP</b>  | Chicago Plenum                                  |
| <b>DSP</b> | Customer Supplied Battery/Driver/Sensor         |
| <b>EF</b>  | End Fillers, comes as pair adds upto 6" per end |

## Controls

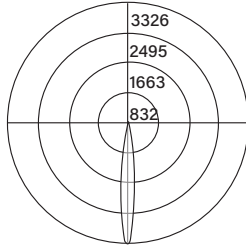
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information



## Photometrics

### Wall Grazer

|           |             |
|-----------|-------------|
| Test #    | ITL82935    |
| Catalog # | EV3WG-840-4 |
| Lumens    | 1296 lm     |
| Watts     | 24.1 W      |
| Efficacy  | 54 LPW      |



### Candela Distribution

| Vert Angle | Horizontal Angle |      |      |      |      |
|------------|------------------|------|------|------|------|
|            | 0                | 22.5 | 45   | 67.5 | 90   |
| 0          | 3320             | 3320 | 3320 | 3320 | 3320 |
| 5          | 2001             | 2489 | 3309 | 2795 | 2315 |
| 10         | 726              | 1339 | 3258 | 1496 | 686  |
| 15         | 233              | 617  | 3166 | 543  | 135  |
| 20         | 93               | 273  | 3012 | 164  | 28   |
| 25         | 51               | 134  | 2812 | 50   | 7    |
| 30         | 36               | 78   | 2582 | 17   | 2    |
| 35         | 27               | 53   | 2324 | 7    | 1    |
| 40         | 21               | 39   | 2046 | 4    | 0    |
| 45         | 16               | 31   | 1761 | 3    | 0    |
| 50         | 12               | 24   | 1465 | 3    | 0    |
| 55         | 7                | 19   | 1174 | 3    | 0    |
| 60         | 8                | 15   | 898  | 2    | 0    |
| 65         | 7                | 12   | 635  | 2    | 0    |
| 70         | 2                | 12   | 404  | 2    | 0    |
| 75         | 2                | 7    | 210  | 1    | 0    |
| 80         | 2                | 7    | 74   | 1    | 0    |
| 85         | 2                | 6    | 10   | 0    | 0    |
| 90         | 2                | 5    | 0    | 0    | 0    |

### Luminance Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45               | 134           | 287            | 26856          |
| 55               | 60            | 190            | 21552          |
| 65               | 63            | 129            | 15227          |
| 75               | 19            | 85             | 7596           |
| 85               | 22            | 86             | 800            |

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

## Applications & Certificates

**Construction:** Extruded aluminum trim with formed cold rolled 20 gauge steel back box housing.

**Shielding:** Extruded aluminum module for perfect wall grazer illumination.

**Mounting:** Evolution is designed to install into acoustical grid and inaccessible ceilings. Specify GXG, FLF, SFS, NFN for individual, unjoinable units (individual units will fall on-grid). Specify GX, FL, SF, NF for continuous runs (runs designed to fall on-grid). Grid retention brackets are integral to housing. Each housing contains 4 grid retention brackets. Consult factory for detailed installation instructions.

**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. Lifetime Projection L70 = 122,900 hours and L90 = 36,600 hours. MacAdam 3-Step Ellipses. Not all products are lighting facts listed. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**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. 90 CRI = R9≥50. 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 OL4 in Driver section when 347 volt (3) is selected. Some Grazer configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Advance Xitanium 0-10V, 1% = PL2. 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 96°F/35°C. For more driver options, see Pinnacle Resource Guide. Some Grazer 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 Grazer 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, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes or for additional custom color and finish options.

**Labels:** UL and cUL Listed. Standard and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Buy American Act Compliant**

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