

# EDGE EV1D

## 1" Recessed Linear

### Key Features

- Extruded aluminum trim with formed cold rolled 18 gauge steel back box housing
- Highly reflective die-formed white painted steel reflector
- 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 #: EV1D-HE-830HO-26'-G1-U-FSD-1-0-W

## EV1D - SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS

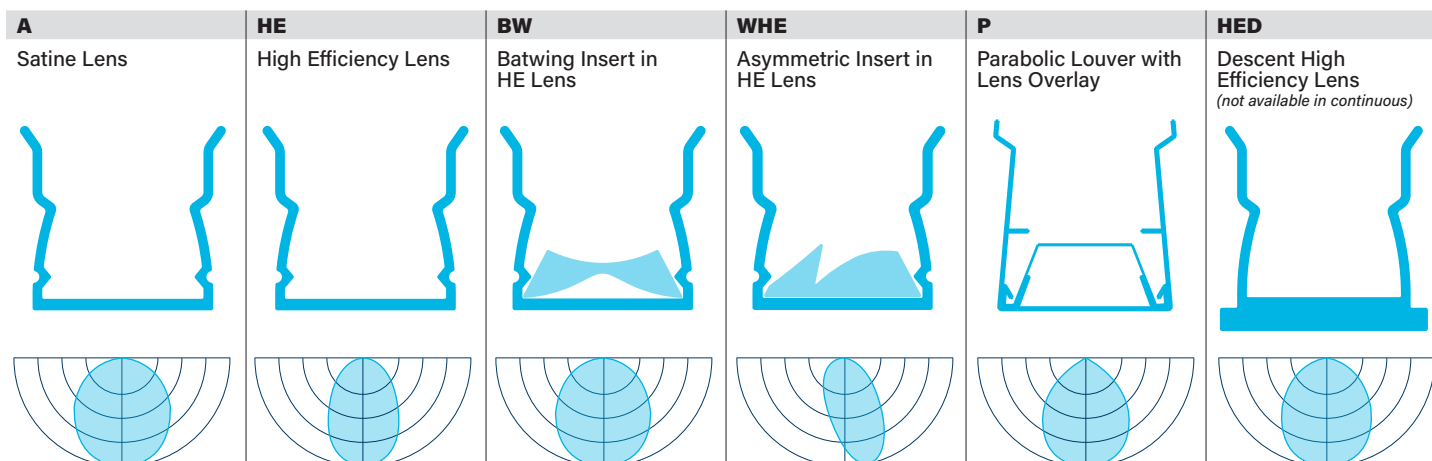
SHIELDING	SOURCE <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>	MOUNTING <sup>3</sup>
<b>A</b> - Satine Lens <b>HE</b> - High Efficiency Lens <b>BW</b> - Batwing Insert in HE Lens <b>WHE</b> - Asymmetric Insert in HE Lens <b>HED</b> - Descent High Efficiency Lens <b>P</b> - Parabolic Louver with Lens Overlay <i>Shielding pg. 2</i>	<b>_27_</b> - 2700K <b>_30_</b> - 3000K <b>_35_</b> - 3500K <b>_40_</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <b>MOD</b> - Mod options available <i>Lumen Output pg. 2</i>	<b>_</b> - Individual Fixture <b>_</b> - Continuous Row <b>L_x_</b> - L Shape <b>R_x_</b> - Rectangle <b>T_x_</b> - T-Shape <b>S_</b> - Square <b>U_x_</b> - U-Shape <b>X_x_x_</b> - X-Shape <b>WC_x_</b> - Wall to Ceiling <b>MOD</b> - Mod options available <i>Length and Pattern pg. 3</i>	<b>G1</b> - 1" (15/16") T Bar <b>G9</b> - 9/16" T Bar <b>GB</b> - 9/16" Bevel T Bar <b>GS</b> - Screw Slot T Bar <b>FL</b> - 1/2" Flange <b>NF</b> - Non Flange <b>SF</b> - Spackle Flange <b>MOD</b> - Mod options available <i>Mounting pg. 4</i>
VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY <sup>4</sup>
<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 4</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED (1%, 0-10v) <b>OL4</b> - eldoLED 347V (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0.1%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>MOD</b> - Mod options available <i>Driver pg. 5</i>	<b>1</b> - Single Circuit <b>M</b> - Multi Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <i>Circuiting pg. 5</i>	<b>0</b> - None <b>_FSB</b> - Factory Select Battery <b>_FSG</b> - Factory Select ALCR <b>_G1</b> - Iota ETS DR <b>_GB</b> - Bodine GTD <b>_PLL</b> - Bodine 10W <b>_E</b> - Emergency Circuit Section <b>_N</b> - Night Light Circuit Section <b>_L</b> - Life Safety Circuit Section <i>Battery and Emergency pg. 6</i>
FINISH	FIXTURE OPTIONS	CONTROLS	
<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 6</i>	<b>FIL</b> - Field Cut Illuminated Extension <b>CP</b> - Chicago Plenum <b>PM</b> - Perimeter Mount <b>RC</b> - Rotating Crossbar <b>GLR</b> - Internal Fast Blow Fuse <b>DSP</b> - Customer Supplied Battery/Driver/Sensor <b>FW6</b> - 6' Flex Whip <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>	

<sup>1</sup>When specifying CRI, CCT & OUTPUT the first \_ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending \_\_ are for specifying output, example **HO** - High Output. See output charts for more information. <sup>2</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>3</sup>Specify grid for individual or continuous length: G1, G9 & GS for continuous rows, G1G, G9G & GSG for individual lengths. \*Enter quantity for Battery and Emergency, Example 2BS.

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.



### Shielding



### 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. CL835600)	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 lumens between standard offering listed below. Lumens are specified per color temp

### Direct 80 CRI

	Color	Lumens per foot	Shielding											
			A Satine Lens		HE High Efficiency		BW Batwing		WHE Asymmetric		P Louver		HED Descent	
			LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft
<b>830</b>	3000K	500	92	5.4	114	4.4	86	5.8	103	4.9	74	6.7	103	4.9
<b>830HO</b>	3000K	750	93	8.0	113	6.6	88	8.5	105	7.2	N/A		102	7.3
<b>830VHO</b>	3000K	1000	N/A		117	8.6	N/A		N/A		N/A		N/A	
<b>835</b>	3500K	500	95	5.3	117	4.3	88	5.7	106	4.7	77	6.5	104	4.8
<b>835HO</b>	3500K	750	96	7.8	117	6.4	90	8.3	108	6.9	N/A		106	7.1
<b>835VHO</b>	3500K	1000	N/A		120	8.4	N/A		108	9.2	N/A		N/A	
<b>840</b>	4000K	500	95	5.3	117	4.3	88	5.7	106	4.7	77	6.5	104	4.8
<b>840HO</b>	4000K	750	96	7.8	117	6.4	90	8.3	108	6.9	N/A		106	7.1
<b>840VHO</b>	4000K	1000	N/A		120	8.4	N/A		108	9.2	N/A		N/A	

### Direct 90 CRI

<b>927</b>	2700K	500	74	6.7	94	5.3	71	7.0	84	5.9	63	8.0	83	6.0
<b>927HO</b>	2700K	750	N/A		95	7.9	N/A		86	8.7	N/A		85	8.9
<b>927VHO</b>	2700K	1000	N/A		N/A		N/A		N/A		N/A		N/A	
<b>930</b>	3000K	500	81	6.2	103	4.9	76	6.6	93	5.4	67	7.4	90	5.5
<b>930HO</b>	3000K	750	83	9.1	102	7.3	N/A		94	8.0	N/A		92	8.2
<b>930VHO</b>	3000K	1000	N/A		N/A		N/A		N/A		N/A		N/A	
<b>935</b>	3500K	500	81	6.2	102	4.9	75	6.6	92	5.4	67	7.5	90	5.6
<b>935HO</b>	3500K	750	82	9.1	102	7.4	N/A		94	8.0	N/A		92	8.2
<b>935VHO</b>	3500K	1000	N/A		N/A		N/A		N/A		N/A		N/A	
<b>940</b>	4000K	500	81	6.2	102	4.9	75	6.6	92	5.4	67	7.5	90	5.6
<b>940HO</b>	4000K	750	82	9.1	102	7.4	N/A		94	8.0	N/A		92	8.2
<b>940VHO</b>	4000K	1000	N/A		N/A		N/A		N/A		N/A		N/A	

### Direct 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** TIR Optics



## Length

- All individual units cannot be joined, end trims are factory installed and cannot be removed
- Continuous Rows are made up of even and odd length fixtures; designed to fall on-grid
- Choose fixture length for Individual or Continuous Row length; for patterns refer to Pattern section on page 6

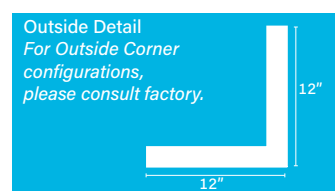
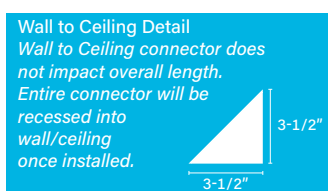
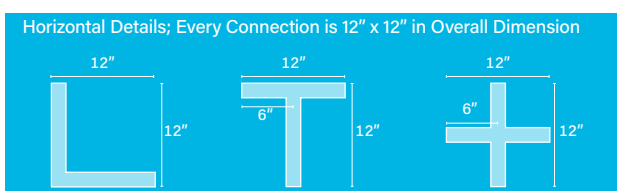
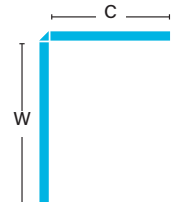
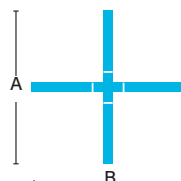
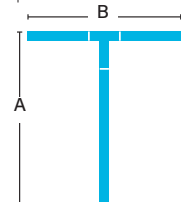
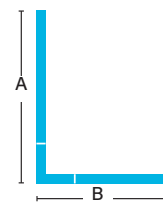
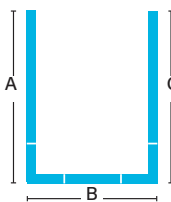
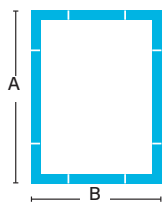
2	3	4	5	6	7	8	–
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1/8"
23" (584.2mm)	35" (889mm)	47" (1193.8mm)	59" (1498.6mm)	71" (1803.4mm)	83" (2108.2mm)	95" (2413mm)	

Specify to the 1/8"

## Pattern

- Specify pattern shape and overall dimensions (includes corner dimensions)
- 90 degree corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only available with HE lens option

<b>S</b> Square	<b>R x</b> Rectangle	<b>U x x</b> U-Shape	<b>L x</b> L-Shape	<b>T x</b> T-Shape	<b>X x</b> X-Shape	<b>WC x</b> Wall to Ceiling
Provide A dimension	Provide Ax B dimensions	Provide Ax BxC dimensions	Provide Ax B dimensions	Provide Ax B dimensions	Provide Ax B dimensions	Provide WxC dimensions
Example: <b>S4'</b>	Example: <b>R4'x4'</b>	Example: <b>U3'x4'x3'</b>	Example: <b>L3'x3'</b>	Example: <b>T3'x5'</b>	Example: <b>X5'x5'</b>	Example: <b>WC2'x2'</b>
Nominal Length- 4'x4'	Nominal Length- 4'x4'	Nominal Length- 3'x4'x3'	Nominal Length- 3'x3'	Nominal Length- 3'x5'	Nominal Length- 5'x5'	Nominal Length- 2'x2'
Minimum Length- 3'11"x3'11"	Minimum Length- 3'11"x3'11"	Minimum Length- 2'11"x3'11"x2'11"	Minimum Length- 2'11"x2'11"	Minimum Length- 2'11"x4'10"	Minimum Length- 4'10"x4'10"	Minimum Length- 1'11"x1'11"



## Length or Pattern: MOD Options

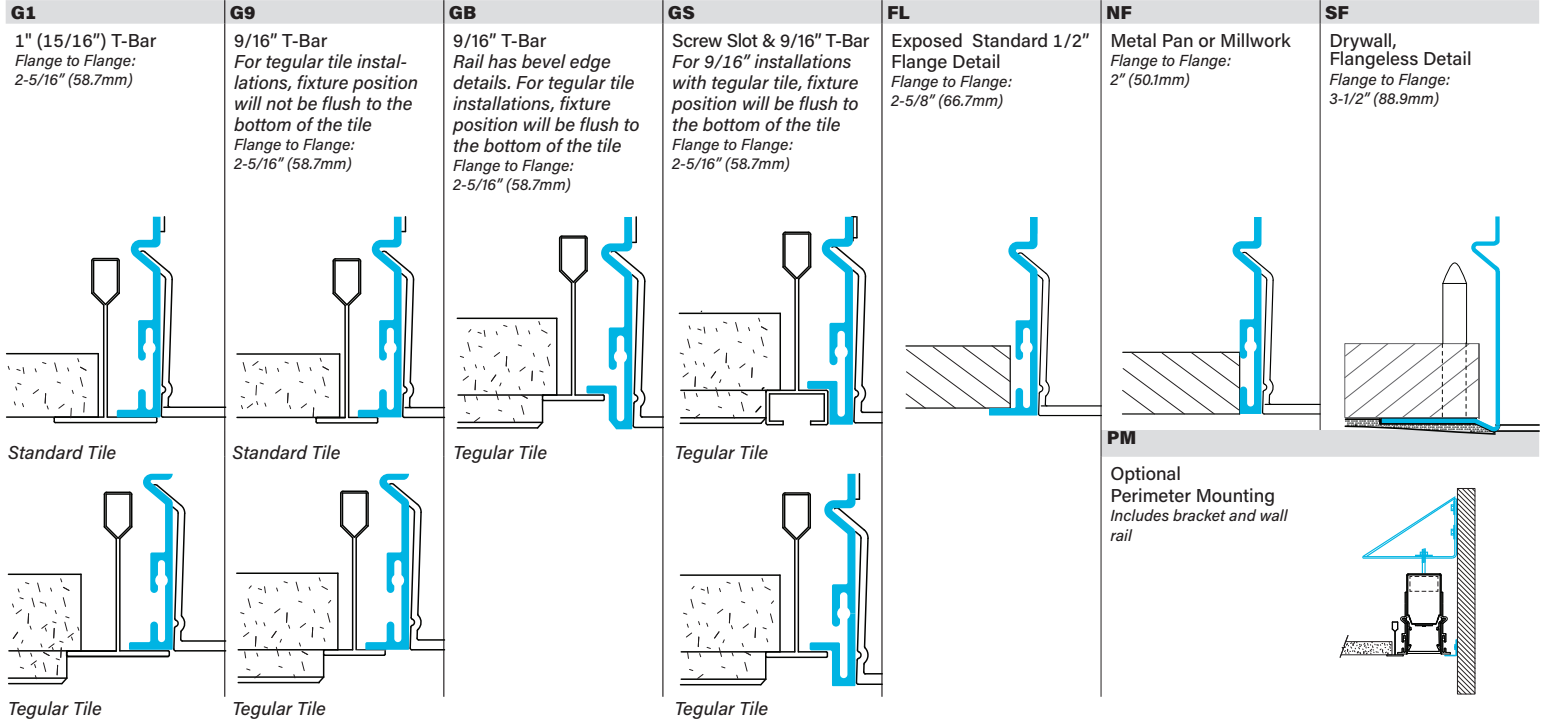
- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information
- Perimeter mount mod will be mounted on wall surface with room side of fixture being taller than wall side

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



## Mounting

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



## 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
	Alternative Ceiling Solutions
	Combination Rails
	Perimeter mount with 2" Drop
	Perimeter mount with 3" Drop
	Perimeter mount with 4" Drop

## Voltage

- Some EV1D 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 EV1D 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

### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive .1%, DALI (logarithmic)
<b>ES3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL

### Lutron Drivers

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

**MOD** Power Over Ethernet

## How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
  - Some EV1D 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

- Battery and emergency section options are available in addition to fixture circuit
  - Select battery and emergency section options below; factory shop drawing required
  - Some EV1D 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 remote to fixture
- Battery not available for lengths under 4'
- Entire fixture is on battery for lengths up to 5'
- Half of fixture is on battery for 6', 7' 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, Integral Lithium
<b>_FSBST</b>	Factory Select Battery 10w, Integral Lithium, Self Testing
<b>_PLL</b>	Bodine 10w Integral Lithium, Self Testing
<b>_ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>_PRH</b>	Bodine 20w Remote, Single conduit flex
<b>_IRH</b>	Iota 20w Remote, Dual conduit flex

### 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 ALCR, Emergency Control Device, UNV
<b>_GI</b>	Iota ETS-DR, Emergency Transfer Switch, 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: 1-1PL
- Emergency only, 10w Integral Battery      Ordering Code: E-1PL
- Single circuit, GTD required              Ordering Code: 1-1G

### 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

<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>FIL</b>	Field Cut Illuminated Extension
<b>CP</b>	Chicago Plenum
<b>PM</b>	Perimeter Mount
<b>RC</b>	Rotating Crossbar
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>GLR</b>	Internal Fast Blow Fuse
<b>FW6</b>	6' Flex Whip

## Controls

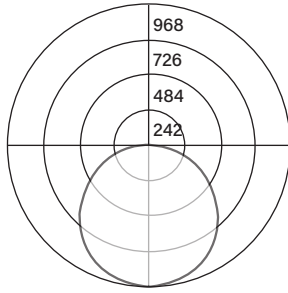
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**Photometrics**

**Satine Lens**

Test # KPL2015-70  
 Catalog # EV1D-A-840HO-4  
 Lumens 2781  
 Watts 28.2  
 Efficacy 99 LPW



**Candela Distribution**

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	961	961	961	961	961
5	953	961	955	958	958
10	941	950	945	948	949
15	920	930	927	929	930
20	891	902	900	901	900
25	854	867	864	863	862
30	812	823	820	819	818
35	763	773	769	767	766
40	707	716	713	709	707
45	644	653	650	645	644
50	580	586	581	576	576
55	508	513	507	502	503
60	431	435	428	423	424
65	351	355	351	346	344
70	270	271	267	264	263
75	187	188	183	181	183
80	110	111	109	108	107
85	46	48	47	46	44
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20414	20608	20404
55	19837	19808	19633
65	18591	18606	18244
75	16191	15858	15862
85	11922	12084	11346

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:** Formed cold-rolled 20 gauge steel housing. Highly reflective die-formed white painted aluminum reflector.

**Shielding:** Diffuse snap-in acrylic lens, removable for maintenance.

**Mounting:** EDGE 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). Consult factory for detailed installation instructions. Maximum fixture weight is 15lbs per 4' fixture.

**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 = 254,800 hours and L90 = 80,200 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**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 103°F/39°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), Life Safety (L) or Night Light circuit (N). 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 EDGE 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.

**Controls:** Mod options available, consult with factory.

**Labels:** UL and cUL 1598 listed. Standard and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Fixture Weight:** Maximum fixture weight is 15lbs per 4' fixture.

### Buy American Act Compliant

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