

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
- Product transparency with third-party verified Living Building Challenge (LBC) Declared



Declare.



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

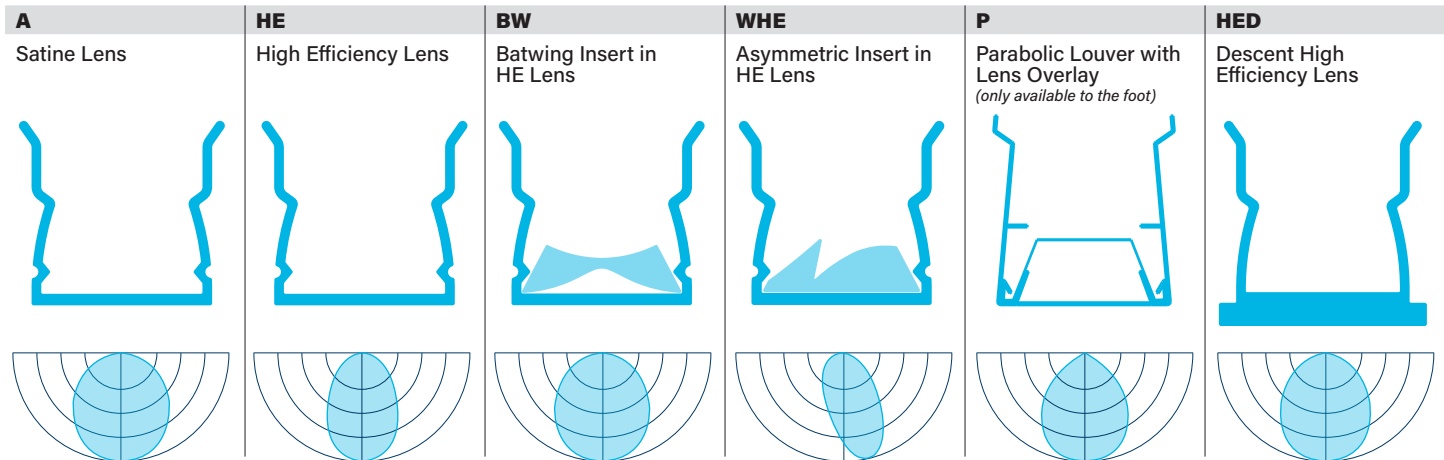
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SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²	MOUNTING
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert in HE Lens WHE - Asymmetric Insert in HE Lens HED - Descent High Efficiency Lens P - Parabolic Louver with Lens Overlay <i>Shielding pg. 2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

¹When 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. ²Individual 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' ³Enter quantity for Battery and Emergency, Example 2PLL. ⁴Compliance is configuration dependent; consult factory for confirmation.

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

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	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
830	3000K	500	92	5.4	114	4.4	86	5.8	103	4.9	74	6.7	103	4.9
830HO	3000K	750	93	8.0	113	6.6	88	8.5	105	7.2	N/A		102	7.3
830VHO	3000K	1000	N/A		117	8.6	N/A		N/A		N/A		N/A	
835	3500K	500	95	5.3	117	4.3	88	5.7	106	4.7	77	6.5	104	4.8
835HO	3500K	750	96	7.8	117	6.4	90	8.3	108	6.9	N/A		106	7.1
835VHO	3500K	1000	N/A		120	8.4	N/A		108	9.2	N/A		N/A	
840	4000K	500	95	5.3	117	4.3	88	5.7	106	4.7	77	6.5	104	4.8
840HO	4000K	750	96	7.8	117	6.4	90	8.3	108	6.9	N/A		106	7.1
840VHO	4000K	1000	N/A		120	8.4	N/A		108	9.2	N/A		N/A	

Direct 90 CRI

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

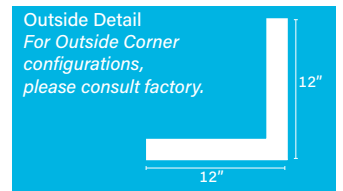
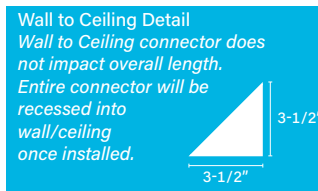
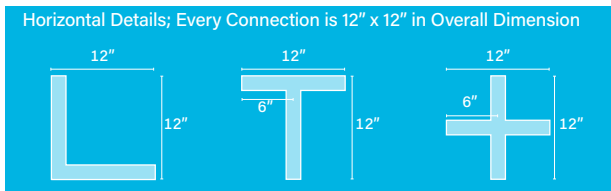
- All individual units cannot be joined, end trims are factory installed and cannot be removed
- Continuous Rows are made up of even and odd length fixtures; designed to fall on-grid
- Choose fixture length for Individual or Continuous Row length; for patterns refer to Pattern section on page 6
- P Shielding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

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

S_	R_x	U_x x	L_x	T_x	X_x	WC_x
Square Provide A dimension Example: S4' Nominal Length- 4'x4' Minimum Length- 3'11"x3'11"	Rectangle Provide Ax B dimensions Example: R4'x4' Nominal Length- 4'x4' Minimum Length- 3'11"x3'11"	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Nominal Length- 3'x4'x3' Minimum Length- 2'11"x3'11"x2'11"	L-Shape Provide Ax B dimensions Example: L3'x3' Nominal Length- 3'x3' Minimum Length- 2'11"x2'11"	T-Shape Provide Ax B dimensions Example: T3'x5' Nominal Length- 3'x5' Minimum Length- 2'11"x4'10"	X-Shape Provide Ax B dimensions Example: X5'x5' Nominal Length- 5'x5' Minimum Length- 4'10"x4'10"	Wall to Ceiling Provide WxC dimensions Example: WC2'x2' Nominal Length- 2'x2' Minimum Length- 1'11"x1'11"



Length or Pattern: MOD Options

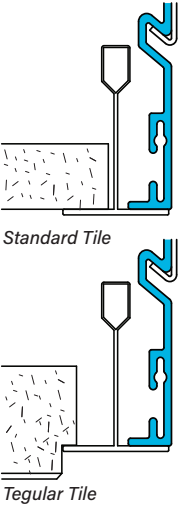
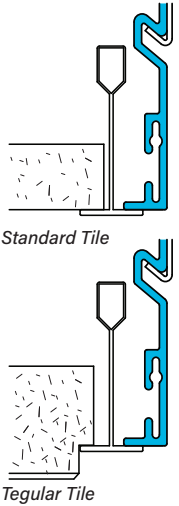
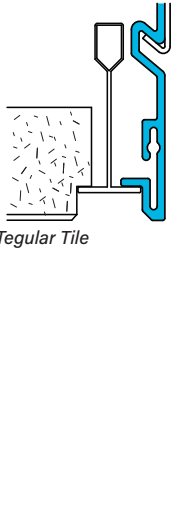
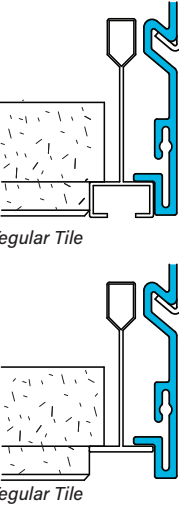
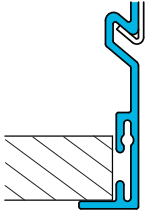
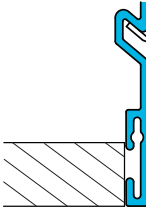
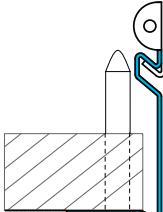
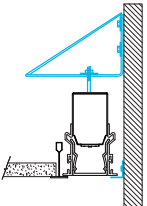
- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information
- Perimeter mount mod will be mounted on wall surface with room side of fixture being taller than wall side

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

- 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

G1	G9	GB	GS	FL	NF	SF
1" (15/16") T-Bar Flange to Flange: 2-5/16" (58.7mm)	9/16" T-Bar For tegular tile instal- lations, fixture position will not be flush to the bottom of the tile Flange to Flange: 2-5/16" (58.7mm)	9/16" T-Bar Rail has bevel edge details. For tegular tile installations, fixture position will be flush to the bottom of the tile Flange to Flange: 2-5/16" (58.7mm)	Screw Slot & 9/16" T-Bar For 9/16" installations with tegular tile, fixture position will be flush to the bottom of the tile Flange to Flange: 2-5/16" (58.7mm)	Exposed Standard 1/2" Flange Detail Flange to Flange: 2-5/8" (66.7mm)	Metal Pan or Millwork Flange to Flange: 2" (50.1mm)	Drywall, Flangeless Detail Flange to Flange: 3-1/2" (88.9mm)
						
Standard Tile	Standard Tile	Tegular Tile	Tegular Tile			
Tegular Tile	Tegular Tile		Tegular Tile			
					PM	
					Optional Perimeter Mounting Includes bracket and wall rail	

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

MOD	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

U	Universal
1	120 volt
2	277 volt
3	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

FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v option
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v, Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v, Linear
ES1	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0.1%, 0-10v, Linear

DALI Drivers

EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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Alternate Drivers

PS1	Advance Xitanium Step Dimming 50%/100%
EH1	ERP 1%, Line Voltage and ELV, requires 120v

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

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	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

0	No Battery
_FSB	Factory Select Battery 10w, Integral Lithium
_FSBST	Factory Select Battery 10w, Integral Lithium, Self Testing
_PLL	Bodine 10w Integral Lithium, Self Testing
_ILL	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

_FSG	Factory Select ALCR, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Control Device, UNV
_GB	Bodine GTD, Emergency Control Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	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

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
S	Metallic Silver
BL	Textured Black
GR	Graphite
BR	Bronze
CC	Custom Color

Fixture Options

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

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

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
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Controls

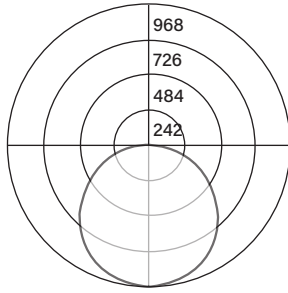
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information



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. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions

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.

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 = 64,700 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at 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.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard and HO lumen packages are IC Rated, 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 15lbs per 4' fixture.

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