

# EDGE EVL

Recessed Linear Outline

## Key Features

- Extruded aluminum trim with formed cold rolled 20 gauge steel back box housing
- EVL LED 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 #: EVL-830HO-26'-G1-U-OL1-1-0-W

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

HOUSING	CRI, CCT & OUTPUT <i>QS</i> <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>	MOUNTING <sup>3</sup>
<b>EVLS</b> - Outline Shallow (4-1/4" tall) <i>QS</i> <i>Housing pg. 2</i>	<b>EVL</b> - Outline (5-1/4" tall) <i>QS</i> <b>EVLS</b> - Outline Shallow (4-1/4" tall) <i>QS</i> <i>Housing pg. 2</i>	___ - Individual Fixture <i>QS</i> ___ - Continuous Row <i>QS</i> <b>LI_x_</b> - Inside L Shape <b>LO_x_</b> - Outside L Shape <b>RI_x_</b> - Inside Rectangle <b>RO_x_</b> - Outside Rectangle <b>SI_</b> - Inside Square <b>SO_</b> - Outside Square <b>M</b> - Mod Layout <i>Length and Pattern pg. 2-3</i>	<b>G1</b> - 1" (15/16") T Bar <i>QS</i> <b>G9</b> - 9/16" T Bar <i>QS</i> <b>GB</b> - 9/16" Bevel T Bar <b>GS</b> - Screw Slot T Bar <b>FL</b> - 1/2" Flange <i>QS</i> <b>NF</b> - Non Flange <i>QS</i> <b>SF</b> - Spackle Flange <i>QS</i> <i>Mounting pg. 3</i>
VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY <sup>4</sup>
<b>U</b> - Universal <i>QS</i> (120 thru 277V) <b>1</b> - 120V <i>QS</i> <b>2</b> - 277V <i>QS</i> <b>3</b> - 347V <i>Voltage pg. 4</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <i>QS</i> <b>PL2</b> - Advance Xitanium (1%, 0-10v) <i>QS</i> <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <i>QS</i> <b>OL4</b> - eldoLED Optotronic 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%) <i>Driver pg. 4</i>	<b>1</b> - Single Circuit <i>QS</i> <b>M</b> - Multi Circuit <b>E</b> - Emergency <i>QS</i> (entire fixture) <b>N</b> - Night Light <i>QS</i> (entire fixture) <i>Circuiting pg. 5</i>	<b>0</b> - None <i>QS</i> <b>FSB</b> - Factory Select Battery <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>IC</b> - Iota 10w Integral (CEC listed) <i>QS</i> <b>P</b> - Bodine 10w Integral <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. 5</i>
FINISH	FIXTURE OPTIONS	CONTROLS	
<b>W</b> - White <i>QS</i> <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. 5</i>	<b>QS</b> - QuickShip <i>QS</i> <b>CP</b> - Chicago Plenum <i>QS</i> <b>GLR</b> - Internal Fast Blow Fuse <i>QS</i> <b>LGR</b> - Low Glare Reflector <b>DSP</b> - Customer Supplied Battery/Driver/ Sensor <b>EF</b> - End Fillers <i>QS</i> <i>Fixture Options pg. 5</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.	

When specifying SOURCE the first \_ is for specifying either 8 - 80CRI, 9 - 90CRI or B - BIOS. The ending \_\_\_ are for specifying output, example HO - High Output. When specifying BIOS use B and then specify color temperature, either 3500K or 4000K, and output, example B35HO - BIOS 3500K High Output. If specifying QS output is 80 CRI, all color temperatures, all lumen packages. Does not include BIOS or Tunable White. See output charts for more information. BIOS dynamic available, please contact factory for more information

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### 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. CW9405)	Specify watts between standard offering listed below

### 80 CRI

	Color	Output	Watts <i>per foot</i>		
				Lumens/ft	LPW
<b>830</b>	3000K	Standard	3.1	200	64.0
<b>830HO</b>	3000K	High	6.0	381	63.5
<b>830VHO</b>	3000K	Very High	8.1	492	60.9
<b>835</b>	3500K	Standard	3.1	209	66.9
<b>835HO</b>	3500K	High	6.0	398	66.3
<b>835VHO</b>	3500K	Very High	8.1	514	63.7
<b>840</b>	4000K	Standard	3.1	214	68.5
<b>840HO</b>	4000K	High	6.0	409	68.2
<b>840VHO</b>	4000K	Very High	8.1	527	65.3

### 90 CRI

<b>927</b>	2700K	Standard	3.1	164	52.5
<b>927HO</b>	2700K	High	6.0	313	52.2
<b>927VHO</b>	2700K	Very High	8.1	404	50.0
<b>930</b>	3000K	Standard	3.1	185	59.2
<b>930HO</b>	3000K	High	6.0	351	58.5
<b>930VHO</b>	3000K	Very High	8.1	454	56.2
<b>935</b>	3500K	Standard	3.1	188	60.2
<b>935HO</b>	3500K	High	6.0	358	59.7
<b>935VHO</b>	3500K	Very High	8.1	463	57.3
<b>940</b>	4000K	Standard	3.1	191	61.1
<b>940HO</b>	4000K	High	6.0	365	60.8
<b>940VHO</b>	4000K	Very High	8.1	471	58.3

### Length

- Individual units cannot be joined, end trims 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)	35" (889mm)	47" (1193.8mm)	59" (1498.6mm)	71" (1803.4mm)	95" (2413mm)	Customizable length using feild cutable non-illuminated end fillers - max. length of 12" per side.

Specify length

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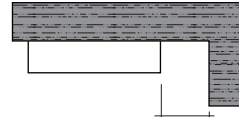
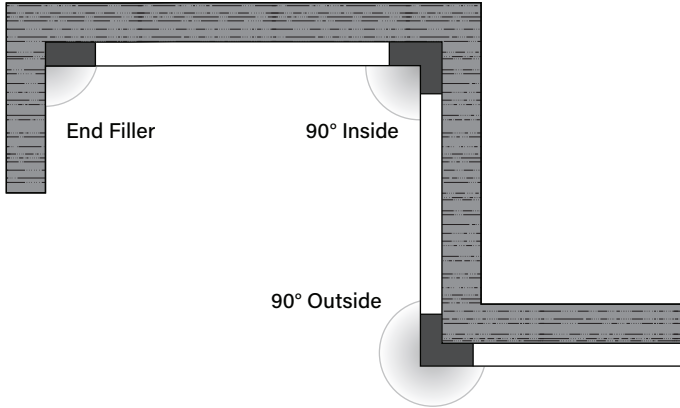


**Pattern**

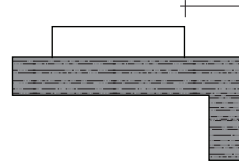
- Outline is a complete perimeter lighting solution that includes inside corners, outside corners, and end fillers
- Corners are 90 degree and allow for +/- 5 degrees of adjustability to accommodate wall imperfections
- Specify runs to the nearest foot. Corners are slid into place to finish the perimeter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

- Field cut End Fillers have a maximum length of 12" & recommended length of 6"
- Inside and Outside corners are field cut. Detailed length information will be on Factory Drawings
- Inside Corners are illuminated while Outside Corners are unilluminated
- 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) Provide overall length dimension for each fixture leg		Rectangle, Inside (RI) or Outside (RO) Provide overall length dimension for each fixture leg		U-Shape, Inside (UI) or Outside (UO) Provide overall length dimension for each fixture leg		L-Shape, Inside (LI) or Outside (LO) Provide overall length dimension for each fixture leg		Mod Layout For 45 degrees, patterns or lengths not shown or standard



Inside Corners:  
Min. Length - 7"  
Max. Length - 13"  
Length is measured from fixture end to wall.

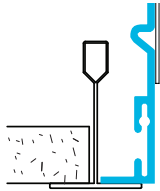
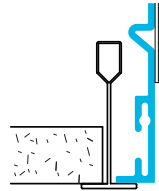
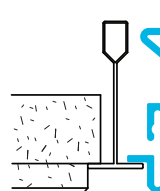
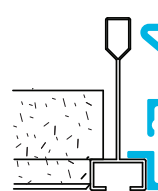
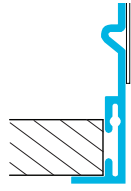
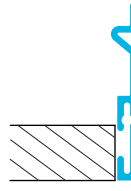
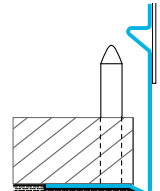
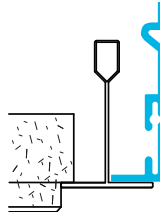
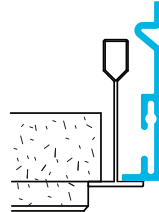
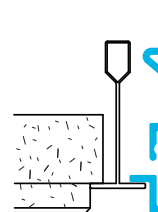


Outside Corners:  
Min. Length - 0"  
Max. Length - 9-1/2"  
Length is measured from fixture end to wall.

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**

- 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

G1	G9	GB	GS	FL	NF	SF
1" (15/16") T-Bar	9/16" T-Bar For tegular tile installations, fixture position will not be flush to the bottom of the tile	9/16" T-Bar 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 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 EVL 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 EVL 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
<b>OD2</b>	eldoLED 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

- Select fixture circuiting from options below
  - Some EVL 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 EVL 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
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### 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 (10w, Self Testing)
<b>_ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>_IRH</b>	Iota 20w Remote
<b>_PRH</b>	Bodine 20w Remote
<b>_PLL</b>	Bodine 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

<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>QS</b>	QuickShip
<b>CP</b>	Chicago Plenum
<b>GLR</b>	Internal Fast Blow Fuse
<b>LGR</b>	Low Glare Reflector <i>(for patterns utilizing inside corners only)</i> <i>not recommended for straight runs, cannot be added in the field</i>
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>EF</b>	End Fillers, comes as pair adds upto 12" per end <i>(6" recommended)</i>

### Quick Ship

	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	Options
<b>10-Day</b>								
<b>EVL</b>	80 CRI, all color temperatures, all lumen packages <i>See pg 5&amp;6</i>	<b>G1(G)</b> 1" Grid <b>G9(G)</b> 9/16" Grid <b>FL(F)</b> Flanged <b>NF(N)</b> Non-Flanged	<b>U</b> Universal <i>(120-277)</i> <b>1</b> 120V <b>2</b> 277V	<b>FSD</b> Factory Select Driver <i>(1%, 0-10v)</i> <b>PL2</b> Advance Xitanium 0-10v, 1% <b>OL2</b> Osram 0-10v, 1%	<b>1</b> Single Circuit <b>E</b> Emergency <b>N</b> Night Light	<b>0</b> None <b>1IC</b> Iota 10w Integral	<b>W</b> White	<b>CP</b> Chicago Plenum <b>GLR</b> Internal Fast-Blow Fuse <b>EF</b> End Fillers

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

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## Controls

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

## Photometrics

### Outline

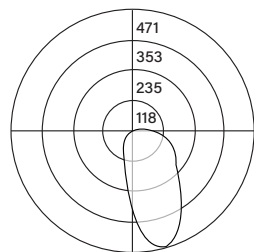
Test #	ITL84678
Catalog #	EVL-840-4
Lumens	856 lm
Watts	12.5 W
Efficacy	68 LPW

### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	442	442	442	442	442
5	463	458	439	425	416
10	465	466	435	393	342
15	446	458	428	318	210
20	416	438	416	219	88
25	377	411	401	120	44
30	329	377	383	62	10
35	283	337	360	35	3
40	242	293	336	8	2
45	206	251	308	5	1
50	179	210	278	4	0
55	157	174	245	3	0
60	144	145	210	2	0
65	131	122	174	2	0
70	120	108	136	1	0
75	110	93	98	1	0
80	98	80	61	1	0
85	88	68	26	1	0
90	77	55	3	1	0
95	65	43	0	1	0
100	47	26	0	1	0
105	30	16	0	0	0
110	21	9	0	0	0
115	13	3	0	0	0
120	7	1	0	0	0
125	1	1	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1632	2444	7390
55	1180	1648	7027
65	968	1157	6441
75	818	915	5341
85	686	709	2775



### Outline - LRG

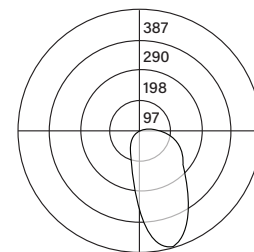
Test #	ITL84678
Catalog #	EVL-840-4-LGR
Lumens	746 lm
Watts	12.6 W
Efficacy	59 LPW

### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	171	171	171	171	171
5	263	238	171	115	94
10	337	300	170	72	56
15	376	341	168	55	34
20	384	364	165	37	21
25	368	370	161	24	16
30	341	356	156	19	13
35	307	333	150	16	10
40	273	304	143	13	7
45	241	269	133	11	5
50	216	235	124	8	2
55	197	203	113	6	0
60	185	176	101	3	0
65	175	155	88	2	0
70	165	142	74	2	0
75	153	128	58	2	0
80	141	113	41	2	0
85	127	97	25	2	0
90	114	82	3	1	0
95	103	69	8	1	0
100	82	52	8	1	0
105	67	40	7	1	0
110	53	19	6	1	0
115	37	3	5	1	0
120	1	2	5	1	0
125	0	2	4	1	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4745	6053	4751
55	3993	4848	4910
65	3786	4063	5132
75	3644	3864	5374
85	3507	3577	5807



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 with for perfect perimeter illumination.

**Mounting:** Outline 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. 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 = 136,200 hours and L90 = 41,100 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:** 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 OL4 in Driver section when 347 volt (3) is selected. Some Outline 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 Outline 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. 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:** Consult Factory.

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

**Buy American Act Compliant**

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