

EDGE EV1

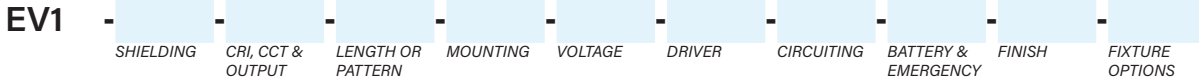
1" Recessed Linear

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 #: EV1-HE-830HO-26'-G1-U-OL2-1-0-W



SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH OR PATTERN ²	MOUNTING ³
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 <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 M - Mod Layout <i>Length and Pattern pg. 2-3</i>	G1(G) - 1" (15/16") T Bar G9(G) - 9/16" T Bar GB(G) - 9/16" Bevel T Bar GS(G) - Screw Slot T Bar FL(F) - 1/2" Flange NF(N) - Non Flange SF(S) - Spackle Flange <i>Mounting pg. 3</i>

VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY ⁴
U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	OL2 - Osram (1%, 0-10v, standard) OL3 - Osram 347V (10%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) L51 - Lutron 5-Series (5%, EcoSystem) PL2 - Advance Xitanium (1%, 0-10v) PS1 - Advance Xitanium (50%/100%) ND - Non-Dimming <i>Driver pg. 4</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 4</i>	0 - None PL - Bodine 10W (low profile) E - Emergency Circuit Section N - Night Light Circuit Section L - Life Safety Circuit Section G - Bodine GTD <i>Battery and Emergency pg. 4</i>

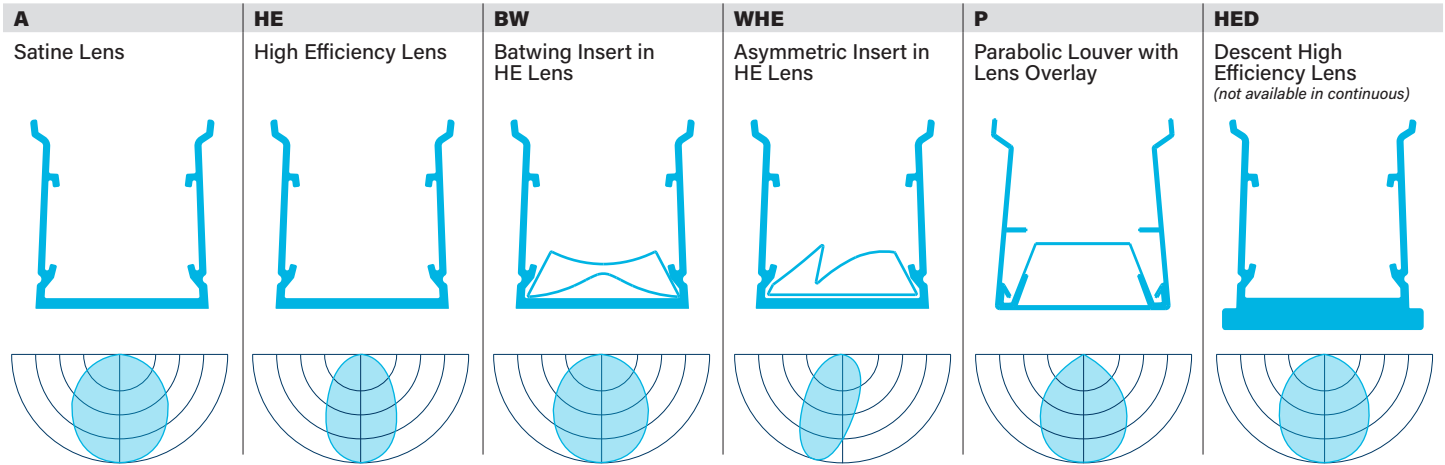
FINISH	FIXTURE OPTIONS	CONTROLS
W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	CP - Chicago Plenum PM - Perimeter Mount RC - Rotating Crossbar GLR - Internal Fast Blow Fuse <i>Fixture Options pg. 5</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

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'. ³Specify 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.

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Shielding



CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

80 CRI

	Color	Output	Watts per foot	Shielding											
				A Satine Lens		HE High Efficiency		BW Batwing		WHE Asymmetric		P Louver		HED Descent	
				Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW
830	3000K	Standard	4.5	347	77.1	412	91.6	327	72.7	365	81.1	273	60.7	377	83.8
830HO	3000K	High	8.6	641	74.5	761	88.5	604	70.2	676	78.6	504	58.6	698	81.2
835	3500K	Standard	4.5	357	79.3	424	94.2	336	74.7	376	83.6	281	62.4	388	86.2
835HO	3500K	High	8.6	658	76.6	782	90.9	621	72.2	695	80.8	519	60.3	717	83.4
840	4000K	Standard	4.5	365	81.0	432	96.0	343	76.2	383	85.1	286	63.6	396	88.0
840HO	4000K	High	8.6	670	77.8	797	92.7	633	73.6	708	82.3	529	61.5	731	85.0

90 CRI

927	2700K	Standard	4.5	274	60.8	325	72.2	259	57.6	289	64.2	216	48.0	298	66.2
927HO	2700K	High	8.6	506	58.8	601	69.9	478	55.6	534	62.1	399	46.4	551	64.1
930	3000K	Standard	4.5	320	71.1	380	84.4	302	67.1	337	74.9	252	56.0	348	77.3
930HO	3000K	High	8.6	591	68.7	701	81.5	557	64.8	623	72.4	465	54.1	643	74.8
935	3500K	Standard	4.5	321	71.3	382	84.9	303	67.3	339	75.3	253	56.2	349	77.6
935HO	3500K	High	8.6	592	68.8	704	81.9	559	65.0	625	72.7	467	54.3	645	75.0
940	4000K	Standard	4.5	326	72.4	386	85.8	306	68.0	342	76.0	256	56.9	354	78.7
940HO	4000K	High	8.6	598	69.5	711	82.7	565	65.7	632	73.5	472	54.9	653	75.9

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
23" (584.2mm)							Specify nominal overall row length to the 1/8"
	35" (889mm)						
		47" (1193.8mm)					
			59" (1498.6mm)				
				71" (1803.4mm)			
					83" (2108.2mm)		
						95" (2413mm)	
							Specify to the 1/8" >>>

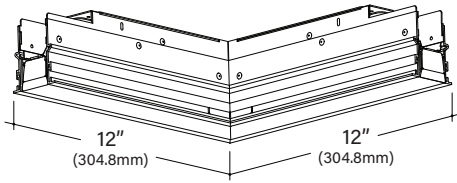
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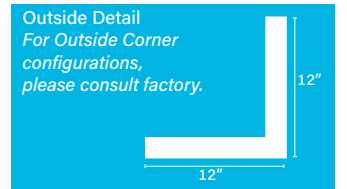
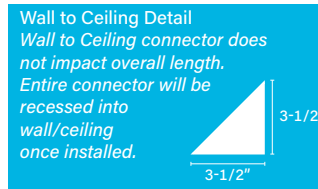
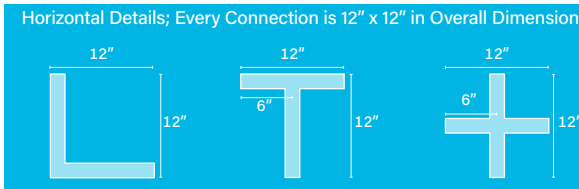
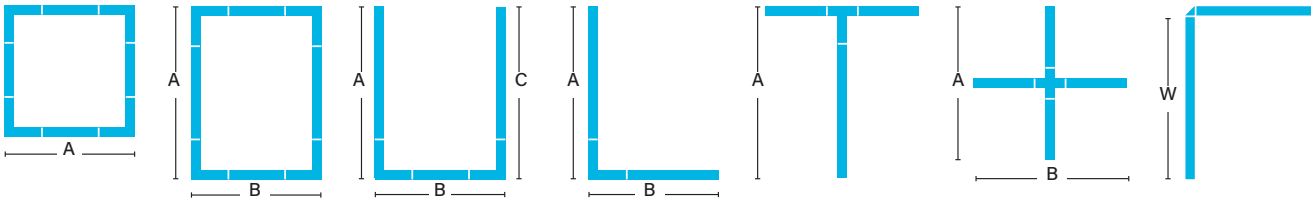


Pattern



- 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 Square Provide A dimension Example: S4' Nominal Length- 4'x4' Minimum Length- 3'11"x3'11"	R_x Rectangle Provide AxB dimensions Example: R4'x4' Nominal Length- 4'x4' Minimum Length- 3'11"x3'11"	U_x x U-Shape Provide AxBxC dimensions Example: U3'x4'x3' Nominal Length- 3'x4'x3' Minimum Length- 2'11"x3'11"x2'11"	L_x L-Shape Provide AxB dimensions Example: L3'x3' Nominal Length- 3'x3' Minimum Length- 2'11"x2'11"	T_x T-Shape Provide AxB dimensions Example: T3'x5' Nominal Length- 3'x5' Minimum Length- 2'11"x4'10"	X_x X-Shape Provide AxB dimensions Example: X5'x5' Nominal Length- 5'x5' Minimum Length- 4'10"x4'10"	WC_x Wall to Ceiling Provide WxC dimensions Example: WC2'x2' Nominal Length- 2'x2' Minimum Length- 1'11"x1'11"	M ModLayout For patterns or lengths not shown or standard
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Mounting

- Individual Units Specify G_G, FLF, SFS, NFN
- Continuous runs Specify G_, FL, SF, NF
- 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

G1G Individual Unit	G9G	GBG	GSG	FLF	NFN	SFS
G1 Continuous Run or Pattern 1" (15/16") T-Bar Flange to Flange: 2-5/16" (58.7mm)	G9 9/16" T-Bar For tegular tile installations, fixture position will not be flush to the bottom of the tile Flange to Flange: 2-5/16" (58.7mm)	GB 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)	GS 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)	FL Exposed Standard 1/2" Flange Detail Flange to Flange: 2-5/8" (66.7mm)	NF Metal Pan or Millwork Flange to Flange: 2" (50.1mm)	SF 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	

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Voltage

- Some EV1 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 = OL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EV1 configurations will not accommodate all driver options; consult with factory

OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
OL3	Osram Optotronic 347v 10%, 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 0%, 0-10v Linear
ES1	eldoLED SOLOdrive 0%, 0-10v Logarithmic
ES2	eldoLED SOLOdrive 0%, 0-10v Linear
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
L51	Lutron 5-Series 5%, EcoSystem, LDE5
PL2	Advance Xitanium 1%, 0-10v
PS1	Advance Xitanium Step Dimming 50%/100%
ND	Non-Dimming

How to specify Circuiting, Battery and Emergency

- 1**
- Select fixture circuiting from options below
 - Some EV1 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

- 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 EV1 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
_PL	Bodine 10w Low Profile

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE
_G	Bodine GTD, Generator Transfer Device section

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

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- $92.3 \text{ (LPW)} \times 10 \text{ (watts)} = 923 \text{ battery lumen output}$



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

CP	Chicago Plenum
PM	Perimeter Mount
RC	Rotating Crossbar
GLR	Internal Fast Blow Fuse

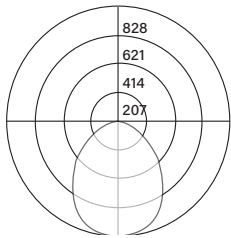
Controls

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

Photometrics

High Efficiency Lens

Test #	ITL86985
Catalog #	EV1HE-840-4
Lumens	1726 Lm
Watts	19.9 W
Efficacy	87 LPW



Candela Distribution

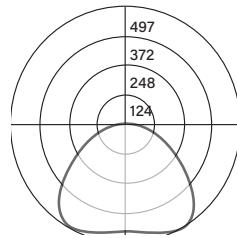
Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	828	828	828	828	828
5	823	824	823	822	821
10	810	808	804	799	796
15	787	779	769	757	751
20	753	739	722	699	690
25	710	689	662	629	614
30	657	632	595	554	537
35	596	569	524	477	459
40	528	499	449	404	387
45	457	429	379	336	323
50	385	361	315	277	266
55	317	296	256	225	216
60	253	234	203	179	172
65	194	180	156	140	135
70	142	132	116	103	100
75	97	90	79	72	70
80	58	54	48	44	44
85	26	24	21	20	20
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14181	11775	10034
55	12136	9795	8273
65	10063	8103	6991
75	8216	6745	5967
85	6677	5393	5136

Batwing Lens

Test #	ITL86987
Catalog #	EV1BW-840-4
Lumens	1371 Lm
Watts	19.9 W
Efficacy	69 LPW



Candela Distribution

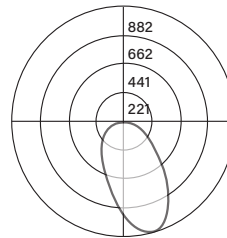
Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	445	445	445	445	445
5	443	447	451	452	453
10	436	443	450	456	459
15	424	432	447	463	470
20	408	417	443	471	483
25	387	397	436	477	494
30	362	374	422	474	497
35	334	348	400	459	484
40	303	317	371	431	454
45	270	284	335	388	409
50	236	248	293	337	352
55	202	210	248	282	293
60	168	174	203	228	236
65	135	138	159	176	182
70	103	104	118	129	133
75	73	73	81	87	89
80	46	45	49	51	52
85	22	20	21	21	21
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8386	10419	12705
55	7728	9489	11229
65	7030	8267	9448
75	6198	6887	7576
85	5454	5317	5317

Asymmetric Lens

Test #	ITL86988
Catalog #	EV1WHE-840-4
Lumens	1532 Lm
Watts	19.9 W
Efficacy	77 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	715	715	715	715	715
5	803	777	711	651	626
10	862	819	696	580	538
15	879	839	672	513	463
20	848	830	637	451	402
25	769	790	593	398	353
30	664	724	543	351	314
35	554	641	487	309	283
40	450	548	428	271	254
45	361	457	367	236	229
50	289	373	310	203	201
55	230	297	255	172	174
60	181	231	204	142	145
65	140	175	158	113	116
70	103	126	117	85	88
75	71	85	81	60	62
80	44	51	49	37	38
85	20	23	23	17	16
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11226	14201	11411
55	8805	11374	9779
65	7254	9110	8210
75	6061	7208	6841
85	5045	5726	5726

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 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. All 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 = 117,400 hours and L90 = 35,000 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.

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. 80 CRI = R9≥19 and 90 CRI = R9≥61.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 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 Osram 0-10V, 1% = OL2. 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 92°F/33°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.

MR16: Ideal for conference rooms, corridors, wall washing, retail spaces and training facilities where accent lighting is required. Fully enclosed compartment eliminates light from entering into our fixture areas. For LED and Halogen lamps (lamps are not included). Consult factory for other lamp types. Standard 60 watt max LED electronic transformer (120v or 277v), 50 watt max halogen lamp transformer (120v or 277v), MR16 installed as an independent circuit. MR16 to match fixture voltage. 277v dimmer must be sourced. Consult factory for MR16 configurations.

Controls: Specify PD for daylight sensor, requires 0-10v driver. Some EDGE configurations will not accommodate all control options; consult with factory.

Labels: UL and cUL 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.