

# EDGE EV6

## 6" Recessed Linear

### Key Features

- Extruded aluminum trim with formed cold rolled 20 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
- Maximum fixture weight is 15lbs per 4ft fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: EV6-A-830HO-26'-G1-U-FSD-1-0-W



SHIELDING	CRI, CCT & OUTPUT <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>	MOUNTING <sup>3</sup>
<b>A</b> - Satine Lens <b>AL</b> - Drop Lens <b>R</b> - Regress Lens <b>V</b> - Path Lens <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 <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>U_x</b> - U Shape <b>S</b> - Square <b>WC_x</b> - Wall to Ceiling <b>M</b> - Mod Layout <i>Length and Pattern pg. 2-3</i>	<b>G1(G)</b> - 1" (15/16") T Bar <b>G9(G)</b> - 9/16" T Bar <b>GB(G)</b> - 9/16" Bevel T Bar <b>GS(G)</b> - Screw Slot T Bar <b>FL(F)</b> - 1/2" Flange <b>NF(N)</b> - Non Flange <b>SF(S)</b> - Spackle Flange <i>Mounting pg. 3</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>OL4</b> - Osram 347V (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>OL2</b> - Osram (1%, 0-10v) <i>Driver pg. 4</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>_FSG</b> - Factory Select ALCR <b>_G1</b> - Iota ETS DR <b>_GB</b> - Bodine GTD <b>_P</b> - Bodine 10W <b>_IC</b> - Iota 10W (CEC Listed) <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 <sup>5</sup>	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>CP</b> - Chicago Plenum <b>FIL</b> - Field Cut Illuminated Extension <b>MRF</b> - Fixed MR16 Halogen <b>LMRF</b> - Fixed MR16 LED <b>XLED</b> - Fixed Xicato LED <b>MRA</b> - Adjustable MR16 Halogen <b>LMRA</b> - Adjustable MR16 LED <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 <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>	

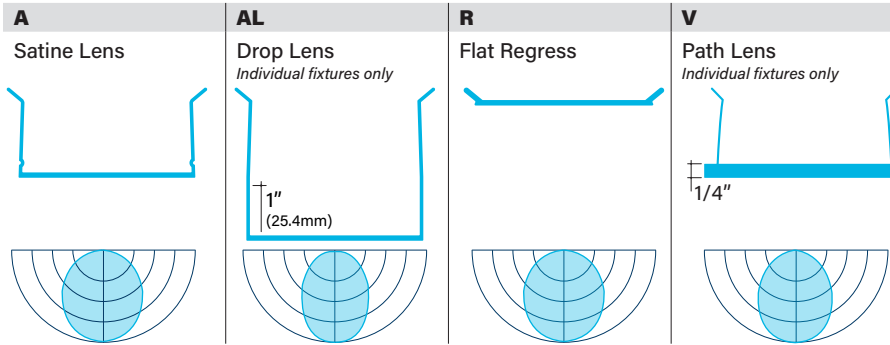
<sup>1</sup>When specifying CRI, CCT & OUTPUT the first \_ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending \_\_ are for specifying output, example **HO** - High Output. See output charts for more information. <sup>2</sup>Individual fixtures come in 2', 3', 4', 5', 6' & 8' lengths. Continuous 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 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>4</sup>Enter quantity for Battery and Emergency, Example 2P. <sup>5</sup>MRF, and LMRF options only available with 120v.

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

- Path Lens (V) surface rests 0.59" below housing for use with ceiling types that extrude below the ceiling level.



## 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

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	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 per foot	Shielding <b>A</b>		<b>AL</b>		<b>R</b>		<b>V</b>	
				Satine Lumens/ft	LPW	Drop Lumens/ft	LPW	Regress Lumens/ft	LPW	Path Lumens/ft	LPW
<b>830</b>	3000K	Standard	4.6	411	88.9	469	101.4	411	88.9	398	85.9
<b>830HO</b>	3000K	High	8.7	752	86.9	866	100.1	752	86.9	734	84.9
<b>835</b>	3500K	Standard	4.6	423	91.5	483	104.3	423	91.5	409	88.4
<b>835HO</b>	3500K	High	8.7	774	89.4	890	102.9	774	89.4	755	87.3
<b>840</b>	4000K	Standard	4.6	431	93.2	492	106.3	431	93.2	417	90.1
<b>840HO</b>	4000K	High	8.7	788	91.1	907	104.9	788	91.1	770	89.0

### 90 CRI

<b>927</b>	2700K	Standard	4.6	325	70.2	371	80.1	325	70.2	314	67.9
<b>927HO</b>	2700K	High	8.7	594	68.7	684	79.0	594	68.7	580	67.1
<b>930</b>	3000K	Standard	4.6	379	81.9	432	93.4	379	81.9	367	79.4
<b>930HO</b>	3000K	High	8.7	693	80.1	798	92.3	693	80.1	677	78.3
<b>935</b>	3500K	Standard	4.6	381	82.4	434	93.8	381	82.4	368	79.6
<b>935HO</b>	3500K	High	8.7	696	80.5	801	92.6	696	80.5	679	78.5
<b>940</b>	4000K	Standard	4.6	385	83.2	439	94.9	385	83.2	372	80.4
<b>940HO</b>	4000K	High	8.7	704	81.4	810	93.6	704	81.4	687	79.4

## 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)	Specify nominal overall row length to the 1/8"

Specify to the 1/8" >>>

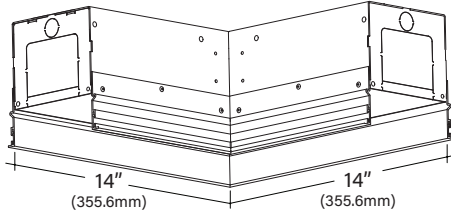
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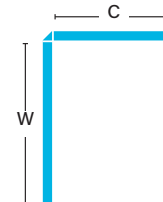
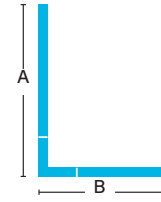
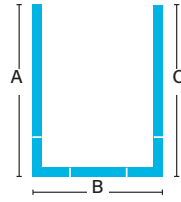
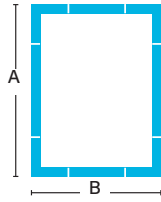
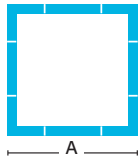


**Pattern**

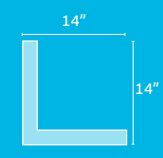


- Specify pattern shape and overall dimensions (includes corner dimensions)
- 90 degree horizontal corners are 14"x14" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only Available with "A" Lens
- Not all drivers available with all patterns; consult factory

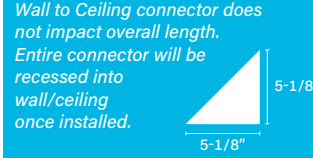
S_	R_x	U_x_x	L_x	WC_x	M
<b>Square</b> Provide A dimension Example: <b>S4'</b> Nominal Length- 4'x4' Minimum Length- 4'3"x4'3"	<b>Rectangle</b> Provide AxB dimensions Example: <b>R4'x4'</b> Nominal Length- 4'x4' Minimum Length- 4'3"x4'3"	<b>U-Shape</b> Provide AxBxC dimensions Example: <b>U3'x4'x3'</b> Nominal Length- 3'x4'x3' Minimum Length- 3'1"x4'3"x3'1"	<b>L-Shape</b> Provide AxB dimensions Example: <b>L3'x3'</b> Nominal Length- 3'x3' Minimum Length- 3'1"x3'1"	<b>Wall to Ceiling</b> Provide WxC dimensions Example: <b>WC2'x2'</b> Nominal Length- 2'x2' Minimum Length- 1'11"x1'11"	<b>ModLayout</b> For patterns or lengths not shown or standard



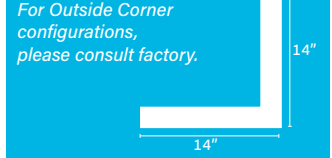
**Horizontal Details**



**Wall to Ceiling Detail**



**Outside Detail**



**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
<b>G1 Continuous Run or Pattern</b> 1" (15/16") T-Bar Flange to Flange: 5-13/16" (147.6mm)	<b>G9</b> 9/16" T-Bar For tegular tile installations, fixture position will not be flush to the bottom of the tile Flange to Flange: 5-13/16" (147.6mm)	<b>GB</b> 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: 5-13/16" (147.6mm)	<b>GS</b> 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: 5-13/16" (147.6mm)	<b>FL</b> Exposed Standard 1/2" Flange Detail Flange to Flange: 6-1/8" (155.6mm)	<b>NF</b> Metal Pan or Millwork Flange to Flange: 5-1/2" (139.7mm)	<b>SF</b> Drywall, Flangeless Detail Flange to Flange: 7" (177.8mm)
 Standard Tile	 Standard Tile	 Tegular Tile	 Tegular Tile	 Standard Tile	 Standard Tile	 Standard Tile
 Tegular Tile	 Tegular Tile	 Standard Tile	 Tegular Tile	 Standard Tile	 Standard Tile	 Standard Tile

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## Voltage

- Some EV6 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 EV6 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% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear

### DALI Drivers

<b>EE3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>EE4</b>	eldoLED SOLOdrive .1%, DALI (linear)
<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 EV6 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 EV6 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 to fixture and requires an additional drop
- 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>_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 ALCR, Automatic Load Control Relay
<b>_GI</b>	Iota ETS DR, Emergency Lighting Control Device
<b>_GB</b>	Bodine GTD, Emergency Lighting Control Device
<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

- Consult factory for MR16 configurations
- FIL has 2" min - 12" max length
- FIL Option angle range is 40° to 90°
- FIL Option is not IC rated

<b>CP</b>	Chicago Plenum
<b>FIL</b>	Field Cut Illuminated Extension
<b>MRF</b>	Fixed MR16 Halogen <i>(only available with 120v)</i>
<b>LMRF</b>	Fixed MR16 LED <i>(only available with 120v)</i>
<b>XLED</b>	Fixed Xicato LED
<b>MRA</b>	Adjustable MR16 Halogen
<b>LMRA</b>	Adjustable MR16 LED
<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

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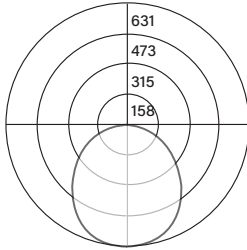
## Controls

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

## Photometrics

### Satine Lens

Test #	ITL86394
Catalog #	EV6A-840-4
Lumens	1724 lm
Watts	18.5 W
Efficacy	93 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	631	631	631	631	631
5	627	627	627	627	627
10	619	616	616	616	615
15	602	598	599	599	596
20	582	575	578	575	574
25	553	546	548	545	543
30	521	514	516	512	508
35	483	476	477	473	470
40	442	436	436	432	429
45	399	393	393	389	386
50	354	350	348	344	343
55	308	304	303	300	298
60	261	257	256	254	253
65	213	211	209	207	207
70	167	165	163	162	162
75	121	119	118	118	118
80	78	77	76	75	75
85	38	37	37	36	36
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3722	3666	3599
55	3535	3477	3418
65	3321	3257	3225
75	3087	3009	3009
85	2851	2774	2697

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. Highly reflective die-formed white painted steel reflector.

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

**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. 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 = 135,200 hours and L90 = 40,300 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. 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 OL4 in Driver section when 347 volt (3) is selected. Some Evolution 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 112°F/44°C. For more driver options, see Pinnacle Resource Guide. Some Evolution 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), 50 watt max halogen lamp electronic transformer (120v), MR16 installed as an independent circuit. MR16 to match fixture voltage. 277v not available. Consult factory for MR16 configurations. Pinnacle's MR16 applications are to be used with Soraa lamps with a maximum of 13 transformers on one circuit.

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