

# EDGE EX1D

1" Suspended Direct Linear

## Key Features

- 6063-T5 Extruded aluminum housing
- Room-Side Maintenance for LED System
- Wiring access available through bottom of housing
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted
- Maximum weight is 10 lbs. for a standard 4' fixture
- Buy American Act compliant
- Product transparency with third-party verified Living Building Challenge (LBC) Declared



Declare.



Example Part #: EX1D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX1D - DIRECT SHIELDING - N INDIRECT SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH

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DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>
<b>A</b> - Satine Lens <b>HE</b> - High Efficiency Lens <b>BW</b> - Batwing Insert <b>WHE</b> - Asymmetric Insert <b>HED</b> - Descent Lens <b>P</b> - Parabolic Louver <i>Shielding pg. 2</i>	<b>N</b> - None <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>S</b> - Square <b>R_X</b> - Rectangle <b>L_X</b> - L Shape <b>U_X_X</b> - U-Shape <b>T_X</b> - T-Shape <b>X_X</b> - X-Shape <b>MOD</b> - Mod options available <i>Length and Pattern pg. 3</i>
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MOUNTING <sup>3</sup>	VOLTAGE	DRIVER	CIRCUITING
<b>AC_G</b> - AC to Grid <b>AC_JB</b> - AC to J Box <b>AC_ST</b> - AC to Structure <b>WA</b> - Wall Mount <b>S</b> - Surface Mount <b>AC5_G</b> - 5" Non-Power Canopy <b>AC5_JB</b> - 5" Non-Power Canopy <b>SQ_G</b> - 5" Square Canopy <b>SQ_JB</b> - 5" Square Canopy <i>Mounting pg. 4</i>	<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. 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>
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BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS	CONTROLS
<b>0</b> - None <b>FBS</b> - Factory Select Battery <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>PLL</b> - Bodine 10W <b>E</b> - Emergency Section <b>N</b> - Night Light Section <b>L</b> - Life Safety Section <i>Battery and Emergency pg. 5</i>	<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. 5</i>	<b>DSP</b> - Customer supplied Batter/Driver/Sensor	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

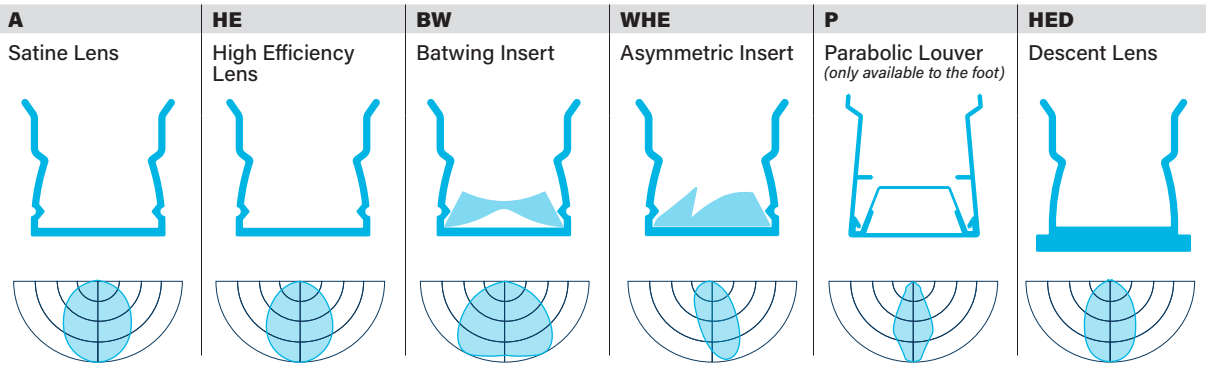
<sup>1</sup>When specifying CRI, CCT & OUTPUT the first \_ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending \_ are for specifying output, example **HO** - High Output. See output charts for more information. <sup>2</sup>Individual fixtures come in 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. <sup>3</sup>Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example: AC48G1 \*Enter quantity for Battery and Emergency, Example 2PL.

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

### DIRECT



### INDIRECT

N  
None

## 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 <b>A</b>		<b>HE</b>		<b>BW</b>		<b>WHE</b>		<b>P</b>		<b>HED</b>	
			Satine Lens LPW	Watts/ft	High Efficiency LPW	Watts/ft	Batwing LPW	Watts/ft	Asymmetric LPW	Watts/ft	Louver LPW	Watts/ft	Descent LPW	Watts/ft
<b>830</b>	3000K	500	92	5.4	116	4.3	84	5.9	101	4.9	73	6.9	102	4.9
<b>830HO</b>	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3	73	10.3	101	7.4
<b>830VHO</b>	3000K	1000	93	10.7	118	8.5	84	11.9	105	9.5	70	14.3	103	9.7
<b>835</b>	3500K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
<b>835HO</b>	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
<b>835VHO</b>	3500K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4
<b>840</b>	4000K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
<b>840HO</b>	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
<b>840VHO</b>	4000K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4

### Direct 90 CRI

<b>927</b>	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
<b>927HO</b>	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
<b>927VHO</b>	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0	N/A		82	12.2
<b>930</b>	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
<b>930HO</b>	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
<b>930VHO</b>	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
<b>935</b>	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
<b>935HO</b>	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
<b>935VHO</b>	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
<b>940</b>	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
<b>940HO</b>	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
<b>940VHO</b>	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

## Direct Source: 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** TIR Optics

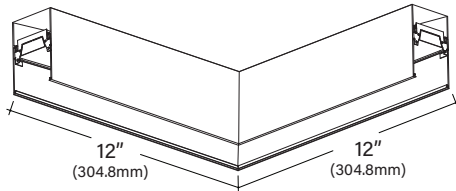


## Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, add 1/8" (3.2mm) for each end plate or 1/4" (6.4mm) to the overall length of the row
- For patterns, refer to Pattern section on next page
- P Shielding option only available to the foot

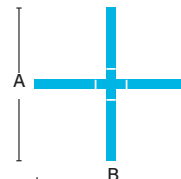
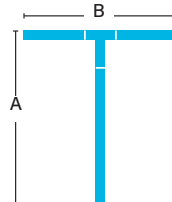
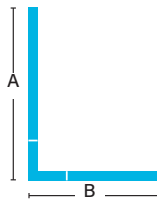
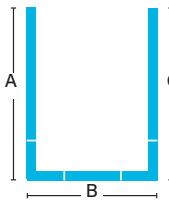
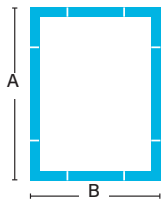
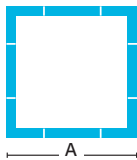
2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)							
	36" (914.4mm)						
		48" (1219.2mm)					
			60" (1524mm)				
				72" (1828.8mm)			
					84" (2133.6mm)		
						96" (2438.4mm)	
							Specify to the 1' >>>

## Pattern

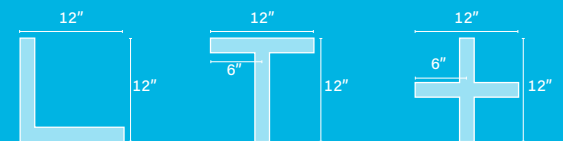


- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory

S_	R_x	U_x x	L_x	T_x	X_x
Square Provide A dimension Example: <b>S4'</b> Minimum Length-4'x4'	Rectangle Provide Ax B dimensions Example: <b>R4'x4'</b> Minimum Length-4'x4'	U-Shape Provide Ax BxC dimensions Example: <b>U3'x4'x3'</b> Minimum Length-3'x4'x3'	L-Shape Provide Ax B dimensions Example: <b>L3'x3'</b> Minimum Length-3'x3'	T-Shape Provide Ax B dimensions Example: <b>T3'x5'</b> Minimum Length-3'x5'	X-Shape Provide Ax B dimensions Example: <b>X5'x5'</b> Minimum Length-5'x5'



Horizontal Details: Every Connection is 12" x 12" in Overall Dimension



## 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

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

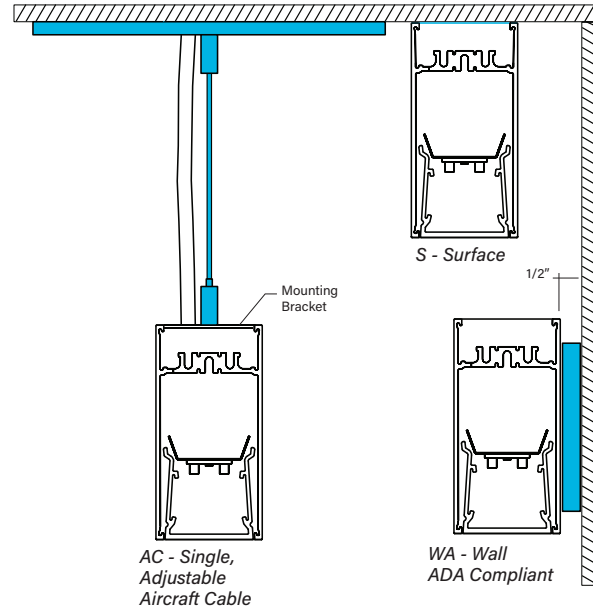


## Mounting

- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240", or 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4" (1219.2mm) and 8" (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

<b>AC_G1</b>	Aircraft Cable 1" (15/16") T-Bar
<b>AC_G9</b>	Aircraft Cable 9/16" T-Bar
<b>AC_GS</b>	Aircraft Cable Screw Slot T-Bar
<b>AC_JB</b>	Aircraft Cable Junction Box
<b>AC_ST</b>	Aircraft Cable Structure
<b>AC5_G</b>	Aircraft Cable 5" (127mm) Non-Power Canopy
<b>AC5_JB</b>	Aircraft Cable 5" (127mm) Non-Power Canopy
<b>SQ_G</b>	Aircraft Cable 5" (127mm) Square Canopy
<b>SQ_JB</b>	Aircraft Cable 5" (127mm) Square Canopy
<b>WA</b>	Wall Mount
<b>S</b>	Surface Mount

- Canopies and pendants match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details.
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 10 lbs for a standard 4' fixture
- Top Cover is optional on AC mounting fixtures, Top Cover is standard on others



## Voltage

- Some EX1D 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 EX1D 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>	Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v option
<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 0.1%, 0-10v, Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0.1%, 0-10v, Linear

### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6

### 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>	Advance Xitanium Step Dimming 50%/100%
<b>EH1</b>	ERP 1%, Line Voltage and ELV, requires 120v

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## How to specify Circuiting, Battery and Emergency

- 1
  - Select fixture circuiting from options below
  - Some EX1D 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 EX1D 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 2PL*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Battery not available for lengths under 4'

- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct 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

#### 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 Control Device, UNV
<b>_GB</b>	Bodine GTD, Emergency Control 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 <i>(white cord/white canopy)</i>
<b>S</b>	Metallic Silver <i>(white cord/silver canopy)</i>
<b>BL</b>	Textured Black <i>(black cord/black canopy)</i>
<b>BR</b>	Bronze <i>(white cord/bronze canopy)</i>
<b>GR</b>	Graphite <i>(white cord/graphite canopy)</i>
<b>CC</b>	Custom Color <i>(white cord/color match canopy)</i>

### Fixture Options

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

<b>DSP</b>	Customer supplied Battery/Driver/Sensor
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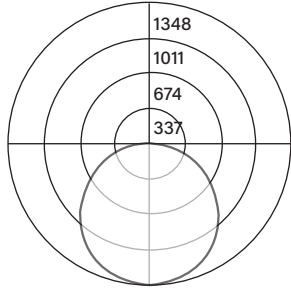
## Controls

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

## Photometrics

### High Efficiency Lens

Test #	KPL2015-57
Catalog #	EX1D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1337	1337	1337	1337	1337
5	1325	1337	1328	1330	1329
10	1308	1320	1310	1312	1311
15	1279	1290	1280	1281	1280
20	1239	1249	1240	1240	1239
25	1189	1197	1189	1186	1186
30	1128	1136	1128	1123	1122
35	1059	1068	1057	1053	1052
40	983	986	978	972	970
45	899	899	892	883	881
50	806	805	796	789	769
55	704	705	696	687	685
60	599	597	590	580	581
65	491	488	477	470	470
70	375	373	365	359	357
75	258	258	250	247	245
80	153	150	146	143	145
85	66	64	61	59	58
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28469	28277	27921
55	27516	27172	26738
65	26044	25293	24939
75	22355	21618	21227
85	17058	15632	14873

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:** 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

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

**Mounting:** Aircraft cable, wall and surface mount available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 10 lbs for a standard 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. TM-21-21 Lifetime Rating L70 = >72,000 hours, L90 = 65,700 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**CRI, CCT & 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≥250.

**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 115°F/46°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 (M), Emergency circuit (E) 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 EX 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. Canopies painted white unless specified differently in the options section of the part number. Contact factory 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 approved for dry/damp location unless otherwise noted.

**Sustainability:** All EDGE 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 10 lbs for a standard 4' fixture.

**Buy American Act Compliant**

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