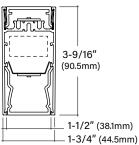
Project Name

\_ Type \_









# 1" Suspended Bidirectional Linear





# **Key Features**

- Co-extruded 1.5" lens delivers smooth, uniform lines of light
- Multiple shielding and lensing options for controlled light distributions
- Integral driver
- Pattern flexibility through illuminated connectors or non-illuminated hubs
- Complete family available in suspended, surface, wall, and recessed applications
- Product transparency with third-party verified Living Building Challenge (LBC) Declared







Example Part #: EX1DI-HE-HE-830HO-830-26'-AC48G1-U-FSD-1-0-W

EX1DI	-	-	-	-	-	-	-	-	-	-	-
	DIRECT SHIELDING	INDIRECT SHIELDING	DIRECT OUTPUT	INDIRECT OUTPUT	LENGTH OR PATTERN	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH

DIRECT SHIELDING	INDIRECT SHIELDING	DIRECT SOURCE <sup>1</sup>	INDIRECT SOURCE <sup>1</sup>
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens Shielding pg. 2	HE - High Efficiency BW - Batwing Lens WHE - Asymmetric Lens HEA - Ascent Lens Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts MOD - Mod options available Lumen Output pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts MOD - Mod options available Lumen Output pg. 3

			_	
LENGTH OR PATTERN <sup>2</sup> Individual Fixture Continuous Row  Illuminated Connectors S - Square R X - Rectangle U X X - U-Shape L X - L Shape T X X - T-Shape X X X - X - X-Shape  MOD - Mod options available Length and Pattern pg. 3-4	Non-Illuminated Hubs HS Square HR _ X Rectangle HU _ X _ X U-Shape HL _ X L-Shape HT _ X _ X Y-Shape HX _ X _ X X-Shape HT Triangle HH Hexagon HY _ X _ X Y-Shape	MOUNTING <sup>3</sup> ACG AC to Grid  ACJB - AC to J Box  ACST - AC to Structure  WA - Wall Mount  AC5G 5" Non-Power Canopy  AC5JB - 5" Square Canopy  SQJB - 5" Square Canopy  Mounting pg. 4	VOLTAGE U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 4	PRIVER  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 (1%, 0-10v) LH1- Lutron Hi-lume (1%, EcoSystem) PS1 - Advance Xitanium (50%/100%) MOD - Mod options available Driver pg. 5

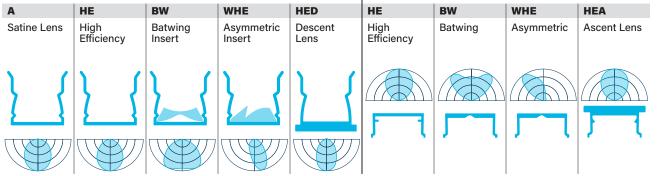
_			
CIRCUITING	BATTERY & EMERGENCY⁴	FINISH	FIXTURE OPTIONS⁵
1 - Single Circuit 2 - Dual Circuit (direct/indirect) M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 5	O - None _FSB - Factory Select Battery _FSG - Factory Select ALCR _GI - lota ETS DR _GB - Bodine GTD _PLL - Bodine 10W Battery and Emergency pg. 6	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pa. 6	<b>BA -</b> Buy America(n) Act and/or Build America Buy America Compliant

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. Individual fixtures come in 2, 3, 4, 5, 6, 7, & 8' lengths. Continuous row come in 1' increments. Patterns can use either an illuminated connector or a non-illuminated hub (**H**) see page 3 for more information and availability. For patterns Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4: 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 2PLL. Compliance is configuration dependent; consult factory for confirmation.



## **Direct Shielding**

# **Indirect Shielding**



#### CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

 Not all lumen package combinations can be accommodated, contact factory for more information.

Custom	Output -	Lumens	OR	Wattage

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

Direct 9	0 CRI													
927	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
927VHO	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0		N/A	82	12.2
930	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
930VHO	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
935	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
935VHO	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
940	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
940VHO	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

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Indirect	80 CRI									
	Color	Lumens per foot	Shielding <b>HE</b>		BW		WHE		HEA	
			High Efficie	ency	Batwing		Asymmetric		Ascent	
			Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW
830	3000K	500	124	4.0	117	4.3	70	7.2	110	4.5
830HO	3000K	750	124	6.1	117	6.4	70	10.7	110	6.8
830VHO	3000K	1000	127	7.9	120	8.3	69	14.6	113	8.8
835	3500K	500	124	4.0	121	4.1	72	6.9	114	4.4
835HO	3500K	750	128	5.9	121	6.2	73	10.3	113	6.6
835VHO	3500K	1000	131	7.6	124	8.1	70	14.4	117	8.6
840	4000K	500	128	3.9	121	4.1	71	7.0	117	4.3
840HO	4000K	750	129	5.8	121	6.2	69	10.9	113	6.6
840VHO	4000K	1000	126	7.9	121	8.3	64	15.7	112	8.9
Indirect	90 CRI									
927	2700K	500	103	4.9	97	5.1	58	8.7	91	5.5
927HO	2700K	750	103	7.3	99	7.6	56	13.5	93	8.1
927VHO	2700K	1000	104	9.6	98	10.2	N/	'A	92	10.8
930	3000K	500	110	4.6	104	4.8	63	8.0	100	5.0
930HO	3000K	750	112	6.7	106	7.1	61	12.3	99	7.5
930VHO	3000K	1000	113	8.9	106	9.4	60	16.7	101	9.9
935	3500K	500	109	4.6	104	4.8	62	8.0	99	5.0
935HO	3500K	750	112	6.7	106	7.1	61	12.3	99	7.6
935VHO	3500K	1000	112	8.9	107	9.3	60	16.8	100	10.0
940	4000K	500	109	4.6	104	4.8	62	8.0	99	5.0
940HO	4000K	750	112	6.7	106	7.1	61	12.3	99	7.6
940VHO	4000K	1000	112	8.9	107	9.3	60	16.8	100	10.0

## 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 plates are factory installed and cannot be removed
- For Continuous runs, add 1/4" (6.4mm) for each end plate or 1/2" (12.7mm) to the overall length of the row
- For patterns, refer to Pattern section on next page
- P Shielding option only available to the foot







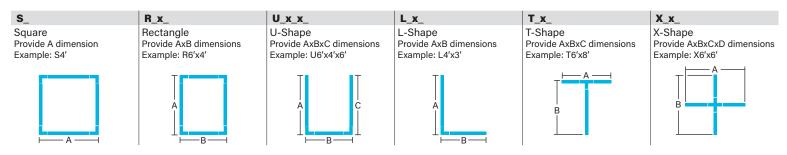




#### Pattern - Illuminated Connectors

- Specify pattern shape and dimensions per leg(s)
- All illuminated connectors are direct only
- Length specified will reflect overall pattern dimensions

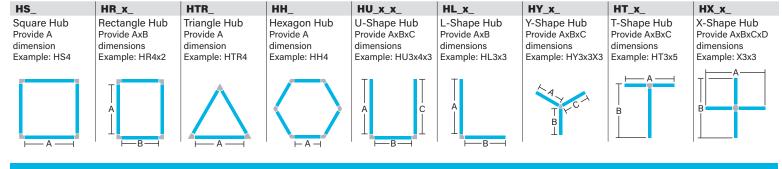
- Angles and shapes not shown require MOD Pattern; consult factory
- For MOD patterns factory drawings and sign off required



#### Pattern - Non Illuminated Hubs

- Specify pattern shape and dimensions per leg(s)
- Length specified will not reflect overall pattern dimensions
- Patterns cannot be used with S mounting

- Angles and shapes not shown require MOD Pattern; consult factory
- For MOD patterns factory drawings and sign off required
- Got to page 7 to sketch multi Hub layout





#### 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

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

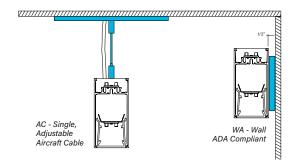


#### Mounting

- 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

ACG1	Aircraft Cable to 1" (15/16") T-Bar
ACG9	Aircraft Cable to 9/16" T-Bar
ACGS	Aircraft Cable to Screw Slot T-Bar
ACJB	Aircraft Cable to Junction Box
ACST	Aircraft Cable to Structure
AC5_G_	5" (127mm) Non-Power Canopy
AC5_JB	5" (127mm) Non-Power Canopy
SQG_	5" (127mm) Square Canopy
SQJB	5" (127mm) Square Canopy
WA	Wall Mount (ADA Compliant, 1/2" off the wall)

- 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 12 lbs for a standard 4' fixture
- For a wall mounted fixture with an indirect asymmetric lens, light will be directed away from the wall as a standard



#### Voltage

Some EX1DI 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 EX1DI configurations will not accommodate all driver options; consult with factory

0-10V Driver	s de la companya de
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
<b>DALI Drivers</b>	
EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
<b>Lutron Drive</b>	rs
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Dri	vers
PS1	Advance Xitanium Step Dimming 50%/100%
EH1	ERP 1%, Line Voltage and ELV, requires 120v

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# $\frac{1}{4}$

## How to specify Circuiting, Battery and Emergency



- Select fixture circuiting from options below
- Some EX1DI configurations will not accommodate all circuiting options, consult with factory

#### Circuiting

1	Single Circuit
2	Dual Circuit (direct/indirect)
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 EX1DI configurations will not accommodate all circuiting options, consult with factory

#### Battery and/or Emergency If Required

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, requires 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

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	lota 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
- Emergency only, 10w Integral Battery
- Single circuit, GTD required
- Ordering Code: 1-1PL
  Ordering Code: E-1PL
- Ordering Code: 1-1G

#### **Finish**

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- W White (white cord/white canopy)

  S Metallic Silver (white cord/silver canopy)

  BL Textured Black (black cord/black canopy)

  BR Bronze (white cord/bronze canopy)

  GR Graphite (white cord/graphite canopy)

  CC Custom Color (white cord/color match canopy)
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

# **Fixture Options**

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

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

#### Controls

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

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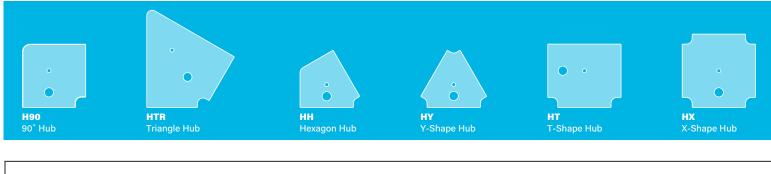
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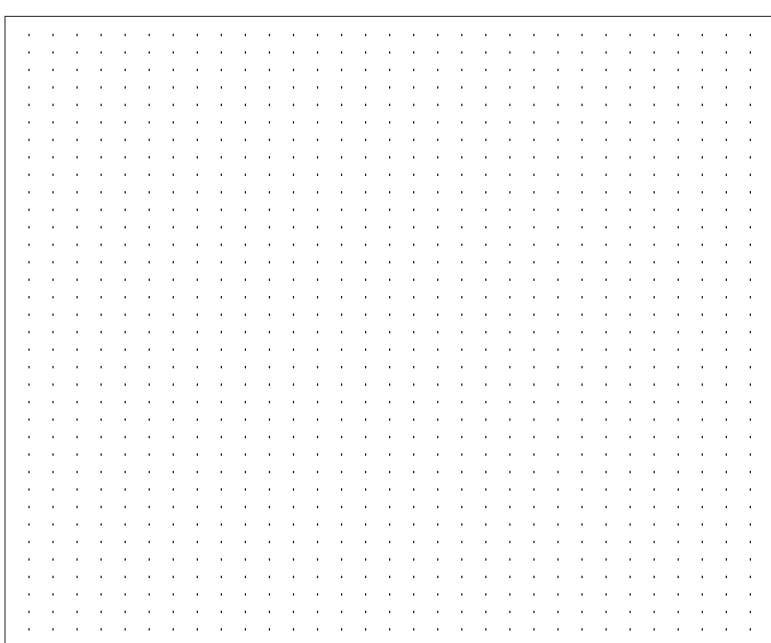
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#### Multi Hub Layout

- Use the below to sketch your desired pattern. Available hubs are listed in the legend. Label your pattern components according to legend to simplify specification.
- Label the linear sections with fixture/run length.

- Cannot use connector with another connector.
- All lengths are to the foot only.
- Pinnacle will create factory drawings based off sketch to confirm dimensions and layout.





#### **Photometrics**

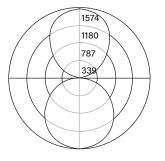
#### **High Efficiency Lens**

Test # KPL2015-59 Catalog # EX1DI-A-HE-840VHO-840VHO-4

 Lumens
 7791

 Watts
 69.2

 Efficacy
 113 LPW



# Candela Distribution

Vert	Horizontal Angle				
Angle					
	0	22.5	45	67.5	90
0	1374	1374	1374	1374	1374
5	1362	1374	1365	1366	1366
10	1344	1356	1347	1348	1347
15	1314	1326	1316	1317	1316
25	1222	1230	1222	1219	1219
35	1088	1097	1086	1082	1081
45	923	923	917	907	906
55	724	724	715	706	703
65	505	501	490	483	483
75	265	265	257	253	252
85	68	66	62	60	59
90	2	2	2	2	2
95	56	55	54	52	50
105	203	203	194	185	180
115	414	411	403	378	371
125	663	663	645	624	610
135	935	938	919	896	884
145	1180	1186	1167	1154	1148
155	1362	1374	1362	1355	1350
165	1485	1501	1487	1488	1484
175	1544	1561	1549	1551	1548
180	1560	1560	1560	1560	1560

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28087	27897	27546
55	27147	26808	26379
65	25694	24954	24605
75	22055	21328	20942
85	16830	15421	14673

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:** 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 = 65,500 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at 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≥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 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. Contact factory 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 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 <a href="here">here</a>.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

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