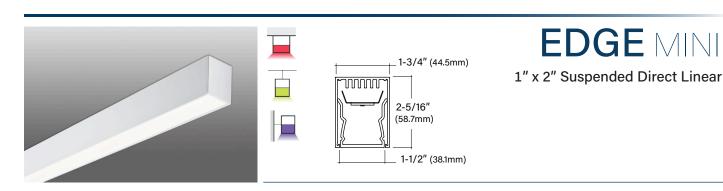
## PINNAL CLE

Project Name

Date

Туре



#### **Key Features**

- Requires a remote mounted driver/battery per fixture
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 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



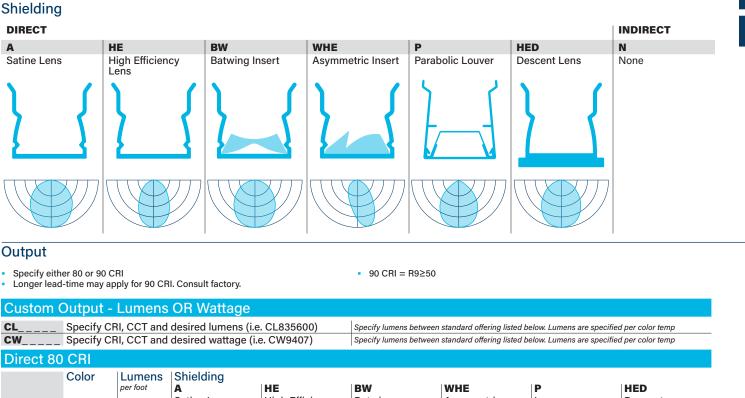
Example Part #: EX12D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

	DRIVER CIRCUITING BATTERY & FINIS EMERGENCY	SH
Ν		
INDIRECT SHIELDING	SOURCE <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>
N - None Shielding pg. 2	<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>	<pre> Individual Fixture  Continuous Row S Square R_x Rectangle L_x L Shape U_x_x U-Shape T_x T-Shape X_x X-Shape MOD - Mod options available Length and Pattern pg. 3</pre>
_		_
VOLTAGE	DRIVER	CIRCUITING
U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 4	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1- Lutron Hi-lume (1%, EcoSystem) Driver pg. 4	<ul> <li>1 - Single Circuit</li> <li>M - Multi Circuit</li> <li>E - Emergency (entire fixture)</li> <li>N - Night Light (entire fixture)</li> <li>Circuiting pg. 5</li> </ul>
FINISH	CONTROLS	
W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.	
	DIPUT       PATTERN         N       INDIRECT SHIELDING         N - None       Shielding pg. 2         Shielding pg. 2       -         VOLTAGE       U - Universal (120 thru 277V)         1 - 120V       2 - 277V         3 - 347V       Yoltage pg. 4         FINISH       W - White         S - Metallic Silver       BL - Textured Black         BR - Bronze       -	UTPUT     PATTERN     EMERGENCY       N

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: GTI=15/16'', G9=9/16'', GS=Screw Slot; AII EX12 fixtures require a remote driver. Distance from Remote Box to Fixture cannot exceed 10ft. Based on the size and application of the remote box, specify RB (Remote Box) or RC (Remote Canopy) at the end of the Mounting portion of the part number. See page 3 for details. Wall Mount and Surface Mount options only work with RB. <sup>4</sup>Enter quantity for Battery and Emergency, Example 2PL. Specifications sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

# EDGEMINI

Suspended Direct Linear



	Color	Lumens	Shielding											
	per foot		A		HE		BW		WHE		P		HED	
			Satine I	Lens	High Efficiency		Batwing		Asymmetric		Louver		Descent	
			LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/f
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

#### **Direct 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

the below options
 Consult factory for MOD specification details, pricing, and lead-time information

MOD TIR Optics

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#### PINNACLE RCHITECTURAL LIGHTING® Р

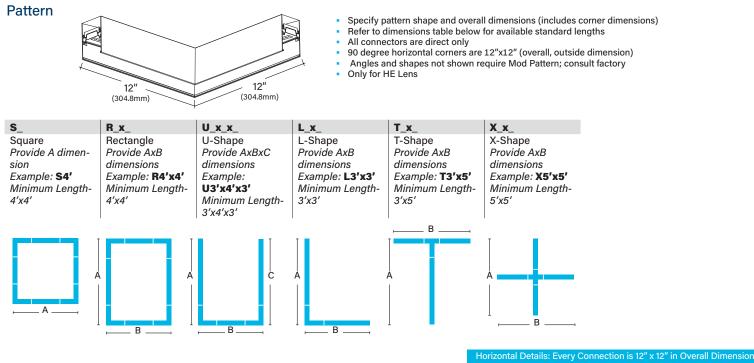
# EDGEMINI

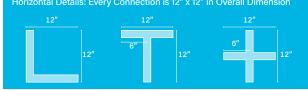
**Suspended Direct** Linear

### Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, 1/2'' [12.7mm) to the overall length of the row to account for end caps For patterns, refer to Pattern section on next page







### 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
MOD	Hubs Connectors

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# EDGEMINI

non-power canopies

Suspended Direct Linear

MM

S - Surface

1/2'

າກກາກກາ

WA - Wall

ADA Compliant

Canopies and pendants match fixture finish, power cords are white, grey, or black

depending on fixture finish. See Finish section for additional details.

Refer to installation instructions during installation at the job site

Approved for dry/damp location unless otherwise noted

Maximum fixture weight is 10 lbs for a standard 4' fixture

MMM

AC - Single,

Adjustable

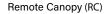
Aircraft Cable

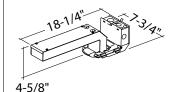
#### Mounting

- Requires a remote mounted driver/battery per fixture specify remote type
- Total distance from remote box to fixture cannot exceed 10ft.
- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 350"
- End trims 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)

ACG1R_	Aircraft Cable 1" (15/16") T-Bar
ACG9R_	Aircraft Cable 9/16" T-Bar
ACGSR_	Aircraft Cable Screw Slot T-Bar
ACJBR_	Aircraft Cable Junction Box
ACSTR_	Aircraft Cable Structure
AC5G_R_	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JBR_	Aircraft Cable 5" (127mm) Non-Power Canopy
SQG_R_	Aircraft Cable 5" (127mm) Square Canopy
SQJBR_	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount (only works with RB)
S	Surface Mount (only works with RB)

Remote Box (RB)





All EX12 fixtures require a remote driver. Specify Remote Box (RB) for all standard remote driver applications. Specify Remote Canopy (RC) for smaller spaces and hard ceilings. The Remote Canopy option fits in to a standard, 4 ½" opening for a canopy in a hard ceiling application. Total distance from remote box to fixture cannot exceed 10ft.

#### Voltage

Some EX12 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

#### Driver

- Requires a remote mounted driver per fixture
- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EX12D configurations will not accommodate all driver options;
- consult with factory
  Osram and Lutron Drivers have remote distance limitation of 10'. Consult factory for specific configurations
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult factory for specific configurations

Integral Driver							
EL1	ERP Power 1%, 0-10v, requires 120 or 277						
<b>Remote Dr</b>	iver						
0-10V Drivers							
FSD	Factory Select Driver (1%, 0-10v)						
PL2	Signify Advance Xitanium 1%, 0-10v						
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v						
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 0-10v, 0.1% Logarithmic						
ES1	eldoLED SOLOdrive 0-10v, 0% Linear						
<b>DALI Drivers</b>							
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)						
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)						
OD1	eldoLED Optotronic 1%, DEXAL						
<b>Lutron Driver</b>	S						
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1						
Alternate Driv	vers						
PS1	Signify Advance Xitanium Step Dimming 50%/						
EH1	ELV 120v only, 0-10v universal						

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EX12D\_LED\_SPEC\_JULY2024

# EDGEMINI

### How to specify Circuiting, Battery and Emergency



Select fixture circuiting from options below

Some EX12D configurations will not accommodate all circuiting options, consult with factory

#### Circuiting

1	Single Circuit
М	Multi Circuit
E	Emergency Circuit only
Ν	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

Select battery and emergency section options below; lactory shop drawing required
 Some EX12D configurations will not accommodate all circuiting options, consult with factory

#### Battery and/or Emergency If Required

0

0

**FSB** 

PLL

ILL

PRH

IRH

**FSBST** 

No battery or specific emergency section required

#### Battery

Battery will be remote mounted with driver.

No 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

Factory Select Battery 10w, Integral Lithium

Bodine 10w Integral Lithium, Self Testing

lota 10w Integral Lithium, Self Testing

lota 20w Remote, Dual conduit flex

Bodine 20w Remote, Single conduit flex

Factory Select Battery 10w, Integral Lithium, Self Testing

• 1	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

**Battery OR Emergency Ordering Examples** 

Ear An	provimata P	ottory	mon Ou	tout
FUL AP	proximate B	ballery LL	umen Ou	iput

Single circuit, 10w Integral Battery Ordering Code: 1-1PL

- 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
- Emergency only, 10w Integral Battery Ordering Code: E-1PL Factory Select ALCR, Emergency Control Device, UNV FSG Single circuit, GTD required Ordering Code: 1-1GB lota ETS-DR, Emergency Transfer Switch, UNV GI GB Bodine GTD, Generator Transfer Device, 120v or 277v **Combination Section Ordering Examples** E Emergency circuit section Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1PL1E Night Light circuit section Ν • Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2PL2E Life Safety circuit section NO THROUGH WIRE 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

W	White (white cord/white canopy)					
S	Metallic Silver (grey 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)					

#### Controls

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

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## PINNAL LIGHTING<sup>®</sup>

# EDGEMINI



### **Photometrics**

#### **High Efficiency Lens**

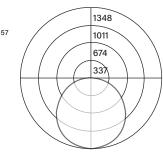
 Test #
 Scaled from KPL2015-57

 Catalog #
 EX12D-A-840VHO-4

 Lumens
 3819

 Watts
 39.7

 Efficacy
 96 LPW



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		

Candela Distribution

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

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

For all available IES files, please visit our website at pinnacle-Itq.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. Lifetime Projection L70 = 254,800 hours and L90 = 80,200 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 $\geq$ 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/46C. 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.

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.