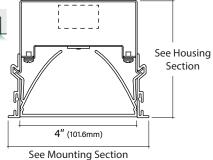
te \_\_\_\_\_\_Type



4" Recessed Perimeter



















# Key Features

HOUSING

- Extruded aluminum trim with formed cold rolled 20 gauge steel back box housing
- 5-year limited warranty covers LED, driver and fixture
- ETL Listed conforming to UL1598 in US and CSA 250 in Canada
- 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
- Indigo-Clean available, see Indigo-Clean specification sheets for details
- Product transparency with third-party verified Living Building Challenge (LBC) <u>Declared</u>

SHIELDING

Example Part #: EV4DPM2-HE-830HO-26'-G1-U-FSD-1-0-W

**LENGTH OR PATTERN<sup>2</sup>** 



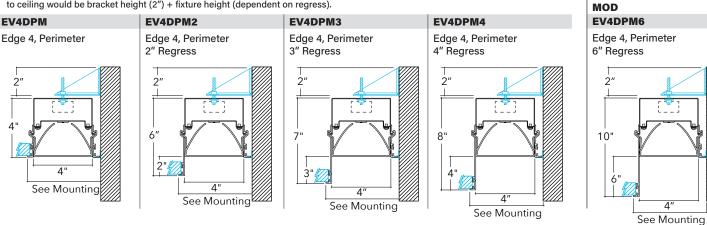
EV4DPM - Edge 3, Perimeter EV4DPM2 - Edge 3, Perimeter, 2" Regress EV4DPM3 - Edge 3, Perimeter, 3" Regress EV4DPM4 - Edge 3, Perimeter, 4" Regress MOD - Modifications Available Housing pg. 2	A - Satine Lens HE - High Efficiency Lens R - Regress Lens WHE - Asymmetric Lens Shielding pg. 2	_27 2700K _30 3000K _35 3500K (available as BIOS) _40 4000K (available as BIOS) CL Custom Lumens CW Custom Watts MOD - Mod options available Lumen Output pg. 2-3	Individual Fixture Continuous Row SI Inside Square SO Outside Square RI_x Inside Rectangle RO_x Outside Rectangle UI_x Inside U Shape UO_x Outside U Shape L_x Inside L Shape LO_x Outside L Shape
		_	
MOUNTING <sup>3</sup>	VOLTAGE	DRIVER	CIRCUITING
G1 - 1" (15/16") T Bar G9 - 9/16" T Bar GB - 9/16" Bevel T Bar GS - Screw Slot T Bar FL - 1/2" Flange NF - Non Flange SF - Spackle Flange MOD - Mod options available Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 5	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) OL4 - eldoLED Optotronic 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) L51 - Lutron 5-Series (5%, EcoSystem) PR1 - Advance Xitanium SR MOD - Mod options available Driver pg. 5	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 5
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS	CONTROLS <sup>6</sup>
O - None _FSB - Factory Select Battery _FSG - Factory Select ALCR _GB - Bodine GTD _GI - lota ETS DR _IC - lota 10W (CEC Listed) _P - Bodine 10W _E - Emergency Circuit Section _N - Night Light Circuit Section _L - Life Safety Circuit Section Battery and Emergency pg. 6	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 6	CP - Chicago Plenum GLR - Internal Fast Blow Fuse FIL- Field Cut Illuminated Extension DSP - Customer Supplied Battery/Driver/ Sensor MOD - Mod options available Fixture Options pg. 6	MOD - Mod options available Controls pg. 7

**SOURCE** 

When specifying SOURCE the first is for specifying either 8 - 80CRI, 9 - 90CRI or B - BIOS. The ending are for specifying output, example HO - High Output. When specifying BIOS use B and then specify color temperature, either 3500K or 4000K, and output, example B35HO - BIOS 3500K High Output. See output charts for more information. BIOS dynamic available, please contact factory for more information. Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1/8" increments. 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. Enter quantity for Battery and Emergency, Example 2P. Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 6 for driver options and dimensions subject to change without notice. Specification sheets that appear on pinnacle-Itg.com are the most recent version and supersede all other previously printed or electronic versions.

## Housing

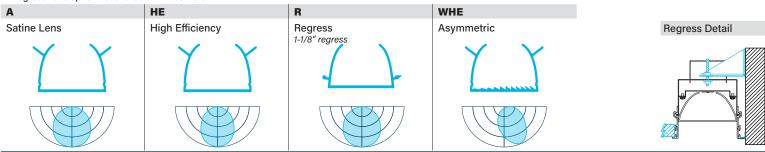
Mounting bolt allows for adjustability of mount height. If fixture is flushed to mount bracket, distance to ceiling would be bracket height (2") + fixture height (dependent on regress).



# Shielding

- Regress Lens option uses housing with backbox. Back box does not impact mounting, see detail.
- Asymmetric Lens option recommended for use pointing away from wall.

  Regress Lens option not available with corners.



# Source: White LED1

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

- 90 CRI = R9≥50
- LPW and watts/ft based off 47" fixture size.

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					

ou Chi										
	Color	Lumens	Shield	ling <sup>1</sup>						
		per foot	A	Ū	HE		R		WHE	
			Satine		High Ef	iciency	Regres	ss	Asymi	metric
			LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft
830	3000K	500	114	4.4	126	4.0	103	4.9	123	4.1
830HO	3000K	750	114	6.6	130	5.8	103	7.3	127	5.9
830VHO	3000K	1000	117	8.5	131	7.6	104	9.6	130	7.7
835	3500K	500	118	4.3	130	3.9	104	4.8	127	4.0
835HO	3500K	750	117	6.4	134	5.6	106	7.1	131	5.7
835VHO	3500K	1000	120	8.3	136	7.4	107	9.4	132	7.6
840	4000K	500	118	4.3	130	3.9	104	4.8	127	4.0
840HO	4000K	750	117	6.4	134	5.6	106	7.1	131	5.7
840VHO	4000K	1000	120	8.3	136	7.4	107	9.4	132	7.6
90 CRI										
	070016	LE00	0.4	l = 0	100	147	100	100	100	140
927	2700K	500	94	5.3	106	4.7	83	6.0	103	4.8
927HO	2700K	750	96	7.8	108	6.9	85	8.8	105	7.1
930	3000K	500	103	4.9	115	4.3	91	5.5	113	4.4
930HO	3000K	750	103	7.3	115	6.5	92	8.1	112	6.7
935	3500K	500	103	4.9	115	4.3	90	5.5	112	4.5
935HO	3500K	750	102	7.3	115	6.5	92	8.1	112	6.7
940	4000K	500	103	4.9	115	4.3	90	5.5	112	4.5
940HO	4000K	750	102	7.3	115	6.5	92	8.1	112	6.7

1LPW and watts/ft based off 47" fixture size.







## Source: BIOS<sup>1</sup>

- CRI >84, R9 >90
- Spectrum focused lighting for circadian stimulus
- High EML or M/P ratio: .8 for 3500K, .9 for 4000K

- COI: ≤3.3
- Available for use with most Driver or Control options

Custom Output - Lumens OR Wattage								
CLB						CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp  Specify watts between standard offering listed below	
BIOS								
	Color   Lumens   Shielding <sup>1</sup>   HE							
B35	3500K	500	Satine LPW	Watts/ft	High Effi	Watts/ft		
B35HO	3500K	750	69.3	10.8	82	9.2		

# **Direct Source: MOD Options**

3500K

4000K 500

4000K 750

4000K 1000

Specify MOD in the part number for any of the below options

1000

72.0

6.9

10.5

N/A

- All RGB\_ Source Options will require specific driver and control
- Consult factory for MOD specification details, pricing, and lead-time information

		Required Driver	Required Control
	Color Changing RGB LED	EC1/EC4	DMX
MOD	Color Changing RGB-W LED	EC1/EC4	DMX
MOD	Color Changing RGB-A LED	EC1/EC4	DMX
	2 Channel Tunable White		
	Dynamic BIOS		

79

83

84

81

12.7

6.0

8.9

12.3

# Length

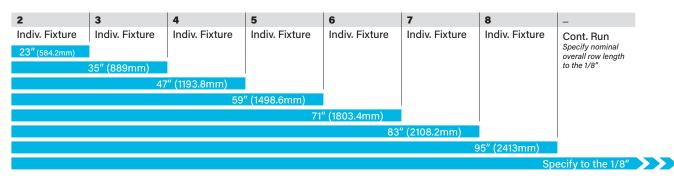
**B35VHO** 

**B40H0** 

**B40VHO** 

**B40** 

- All 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
- BIOS is only available in foot lengths



# $^{+}$

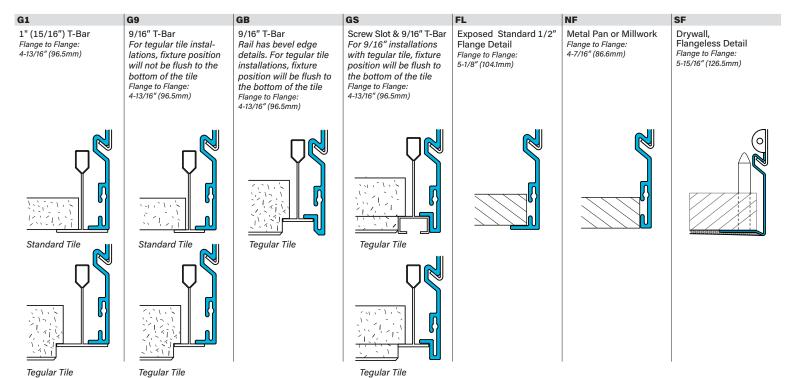
#### Pattern

- Specify pattern shape and overall dimensions (includes corner dimensions)
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Use with Field Cut Illuminated extensions (FIL) to fit to wall to wall dimensions
- Not all drivers available with all patterns; consult factory

SI_	SO_	RI_x_	RO_x_	UI_x_x_	UO_x_x_	LI_x_	LO_x_
Square, Inside (SI) or Outside (SO) Provide overall length dimension for each fixture leg  Rectangle, Inside (RI) or Outside (RO) Provide overall length dimension for each fixture leg				U-Shape, Inside ( <b>UI</b> ) or Outs <i>Provide overall leng</i> <i>each fixture leg</i>		L-Shape, Inside ( <b>LI</b> ) or Outsi <i>Provide overall leng</i> <i>each fixture leg</i>	
Field Cut Illur Extension (FI						12"	2"

## Mounting

- 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



# Mounting: 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 Alternative Ceiling Solutions

# Voltage

Some EV4D 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 EV4D configurations will not accommodate all driver options; consult with factory

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
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
OL5	eldoLED Optotronic 1%, 0-10v, AUX
PL5	Advance Xitanium 1%, 0-10v, AUX
DALI Drivers	
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL
OD2	eldoLED Optotronic 1%, DALI 2 Channel
<b>Lutron Drivers</b>	s
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only
<b>Alternate Driv</b>	vers
PS1	Signify Advance Xitanium Step Dimming 50%/100%
PR1	Philips Advance Xitanium SR, requires EASYS, VDO, or VRF
EH1	ELV 120v only, 0-10v universal
EC2	Constant Voltage LED Driver, 120v of 277v required

# **Driver: 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 Power Over Ethernet

# How to Specify Circuiting, Battery and Emergency



- Select fixture circuiting from options below
- Some EV4D configurations will not accommodate all circuiting options, consult with factory

# Circuiting

1	Single Circuit
M	Multi Circuit (Not available with controls)
E	Emergency Circuit only (uses nIO EZ PH ER with NLIGHT)
N	Night Light Circuit only

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.

EV4DPM\_LED\_SPEC\_NOV2024 pg. 5





- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section options below; factory shop drawing required
- Some EV4D 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 2P
- 90 minute battery runtime; test button location dependant on configuration, consult factory
- No battery option available for 2' & 3' 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

0	No Battery
_FSB	Factory Select Battery (10w option)
_FSBST	Factory Select Battery (10w, Self Testing)
_IC	lota 10w Integral
_ILL	lota 10w Integral Lithium, Self Testing
_IRH	Iota 20w Remote
_P	Bodine 10w Integral
_PRH	Bodine 20w Remote
_PLL	Bodine 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 Automatic Load Control Relay (ALCR), UNV
_GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
_GB	Bodine GTD, Generator Transfer 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 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

Multi circuit, (2) 10w battery, (2) emergency sections

Single circuit, (1) night light section

Ordering Code: 1-1P1E Ordering Code: M-2P2E

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
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
- FIL has 2" min 12" max length

СР	Chicago Plenum
GLR	Internal Fast Blow Fuse
DSP	Customer Supplied Battery/Driver/Sensor
FIL	Field Cut Illuminated Extension

- FIL Option angle range is 40° to 90°
- FIL Option is not IC rated

# **Fixture Options: 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

Remote Driver





# **Direct Source: MOD Options**

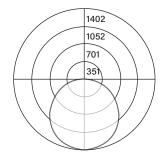
- Specify **MOD** in the part number for any of the below options
- Control Options may require specific driver. Refer to the chart below
- Consult factory for MOD specification details, pricing, and lead-time information

		Required Driver
	Legrand Wattstopper DLM	OL2, OL4
	Encelium Sensilum	OD1, OL5
MOD	Enlighted (Wireless) - ENLI	Any 0-10v
	Enlighted (Wireless) - ENLC	Any 0-10v
	Acuity nLight Air Wireless Connected	EE6, ES6

# **Photometrics**

#### Satine Lens

Catalog # EV2D-A-840VHO-4 Lumens 4020 lm Watts 34.7 w 116 LPW Efficacy



#### Candela Distribution

Angle

5					
	0	22.5	45	67.5	90
0	1400	1400	1400	1400	1400
5	1393	1395	1397	1398	1399
10	1379	1382	1382	1379	1381
15	1348	1344	1350	1350	1348
20	1306	1298	1306	1307	1304
25	1253	1245	1253	1254	1247
30	1191	1178	1185	1184	1183
35	1112	1104	1112	1108	1105
40	1030	1023	1029	1027	1024
45	940	932	935	932	930
50	839	834	836	833	830
55	734	730	730	729	727
60	624	618	619	618	615
65	507	504	503	501	503
70	388	386	387	388	387
75	269	268	271	273	274
80	156	160	164	166	168
85	65	66	70	73	73
90	0	0	0	0	0

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

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	10950	10892	10833
55	10541	10483	10440
65	9882	9804	9804
75	8561	8625	8720
85	6143	6616	6899

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.

# **Applications & Certificates**

**Housing:** Formed cold-rolled 20 gauge steel housing. Highly reflective die-formed white painted steel 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 ongrid). 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.

White 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 = 146,500 hours and L90 = 45,000 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. 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.

**BIOS LED:** Spectrum focused lighting for circadian stimulus. EML or M/P ratio: .8 for 3500K, .9 for 4000K. COI >3.0. 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.

**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 EDGE 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 98°F/37°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 location dependant on configuration, consult factory. 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.

**Controls:** (B3LM) Wattstopper control of Intensity and CCT for tunable white, allows simple integration into a Wattstopper DLM control system. Blanco 3 offers the highest quality tunable white by mixing three channels of white LEDs for precise black body curve CCT. Uses constant voltage LED driver (EC2), BLM and Blanco 3 channel LED arrays (TW3).

**Labels:** UL and cUL 1598 listed. Standard, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Sustainability:** All 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 15lbs per 4' fixture.

#### **Buy American Act Compliant**

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