

# EDGE EX2D

## 2" Suspended Direct Linear

### Key Features

- 6063-T6 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- Room side maintenance for LED system
- 5-year limited warranty covers LED, driver and fixture
- ETL listed conforming to UL 1598 in US and CSA 250 in Canada
- Approved for dry/damp location unless otherwise noted
- Maximum weight is 20 lbs. for a standard 4' fixture
- Buy American Act compliant
- Run lengths available to an 1/8"



Example Part #: EX2D-HE-N-830HO-26'-AC48G1-U-OL2-1-0-W

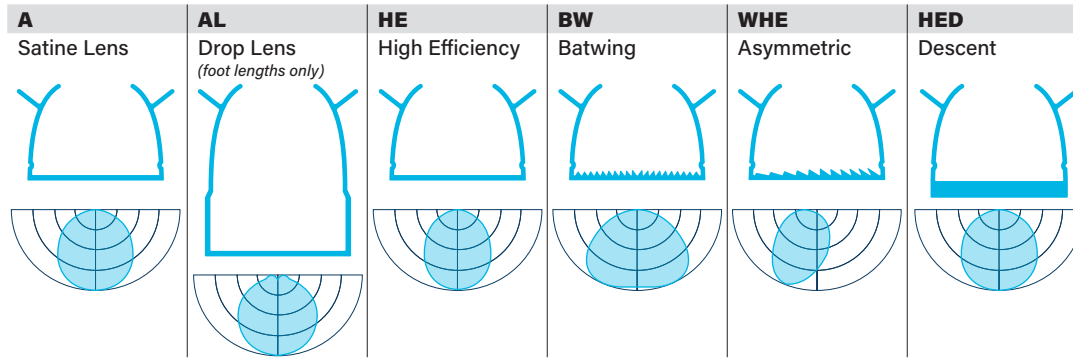
EX2D -		- N										
DIRECT SHIELDING		INDIRECT SHIELDING	SOURCE	LENGTH OR PATTERN	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS
--			N				-----			----		
DIRECT SHIELDING			INDIRECT SHIELDING				SOURCE QS.¹			LENGTH OR PATTERN²		
A - Satine Lens QS. AL - Drop Lens HE - High Efficiency QS. BW - Batwing QS. WHE - Asymmetric QS. HED - Descent Shielding pg. 2			N - None QS. Shielding pg. 2				27__ - 2700K 30__ - 3000K 35__ - 3500K (available as BIOS) 40__ - 4000K (available as BIOS) TW3 - Tunable White (Blanco 3) CL_____ - Custom Lumens CW_____ - Custom Watts MOD - Mod options available Lumen Output pg. 3			__ - Individual Fixture QS. __ - Continuous Row QS. S - Square QS. R_x - Rectangle QS. L_x - L Shape QS. U_x - U-Shape QS. T_x - T-Shape X_x_x - X-Shape MOD - Mod options available Length and Pattern pg. 3-4		
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MOUNTING³			VOLTAGE				DRIVER			CIRCUITING		
AC_G - (M)AC to Grid QS. AC_JB - (M)AC to J Box QS. AC_ST - (M)AC to Structure QS. AC5_G - 5" Non-Power Canopy AC5_JB - 5" Non-Power Canopy SQ_G - 5" Square Canopy SQ_JB - 5" Square Canopy WA - Wall Mount QS. S - Surface Mount QS. MOD - Mod options available Mounting pg. 4			U - Universal (120 thru 277V) QS. 1 - 120V QS. 2 - 277V QS. 3 - 347V Voltage pg. 5				FSD - Factory Select Driver (1%, 0-10v) QS. PL2 - Advance Xitanium (1%, 0-10v) QS. OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1- Lutron Hi-lume (1%, EcoSystem) PR1 - Advance Xitanium SR OL2 - Osram (1%, 0-10v) QS. MOD - Mod options available Driver pg. 5			1 - Single Circuit QS. M - Multi Circuit E - Emergency (entire fixture) QS. N - Night Light (entire fixture) QS. Circuiting pg. 6		
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BATTERY & EMERGENCY⁴			FINISH				FIXTURE OPTIONS⁵			CONTROLS⁶		
0 - None QS. FSG - Factory Select ALCR FSB - Factory Select Battery GI - Iota ETS DR GB - Bodine GTD PLL - Bodine 10W ILL - Iota 10W QS. E - Emergency Section N - Night Light Section L - Life Safety Section Battery and Emergency pg. 6			W - White QS. S - Metallic Silver QS. BL - Textured Black QS. BR - Bronze GR - Graphite CC - Custom Color Finish pg. 6				QS - QuickShip QS. TC - Indirect Top Cover (ac mounting only) DSP - Customer Supplied Battery/Driver/ Sensor MOD - Mod options available Fixture Options pg. 7			DLMFC - Wattstopper DLM (wired) DLMFS - Wattstopper LLC (wireless) EASYS - Philips EasySense (wireless) SNLSM - Encelium Sensilum (wireless) WVLX - Eaton Wavelinx (wireless) VDO - Lutron Vive Sensor (wireless) VRF - Lutron Vive Connected (wireless) ENL - Enlighted (wireless) MOD - Mod options available Controls pg. 7		

1. When specifying SOURCE the first \_ is for specifying either 8 - 80CRI, or 9 - 90CRI. The ending \_ are for specifying output, example HO - High Output. If specifying QS output is 80 CRI, all color temperatures, all lumen packages. Does not include Tunable White. See output charts for more information. 2. Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1/8" increments. For Mod layouts specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. 3. Specify AC Cable: Standard single AC = AC or Movable AC = MAC; Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example: AC48G1 4. Enter quantity for Battery and Emergency, Example 2P. 5. QS must be used in fixture options section of part number to qualify. 1/8" increments not available for QS. LMRP option only available with 120v. 6. Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information.

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.



## Direct Shielding



## Indirect Shielding

N
None

## Source: White LED<sup>1</sup>

- 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

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

### 80 CRI

	Color	Lumens per foot	Shielding <sup>1</sup>											
			A Satine LPW	Watts/ft	AL Drop LPW	Watts/ft	HE High Efficiency LPW	Watts/ft	BW Batwing LPW	Watts/ft	WHE Asymmetric LPW	Watts/ft	HED Descent LPW	Watts/ft
<b>830</b>	3000K	500	101	4.9	101	4.9	119	4.2	119	4.2	116	4.3	98	5.1
<b>830HO</b>	3000K	750	101	7.4	103	7.3	119	6.3	119	6.3	116	6.5	99	7.6
<b>830VHO</b>	3000K	1000	103	9.8	105	9.5	122	8.2	122	8.2	119	8.4	99	10.1
<b>835</b>	3500K	500	102	4.9	105	4.8	123	4.1	123	4.1	120	4.2	101	5.0
<b>835HO</b>	3500K	750	104	7.2	107	7.0	123	6.1	123	6.1	120	6.3	101	7.5
<b>835VHO</b>	3500K	1000	106	9.4	107	9.3	126	8.0	126	7.9	123	8.2	102	9.8
<b>840</b>	4000K	500	102	4.9	105	4.8	123	4.1	123	4.1	120	4.2	101	5.0
<b>840HO</b>	4000K	750	104	7.2	107	7.0	123	6.1	123	6.1	120	6.3	101	7.5
<b>840VHO</b>	4000K	1000	106	9.4	107	9.3	126	8.0	126	7.9	123	8.2	102	9.8

### 90 CRI

<b>927SO</b>	2700K	500	82	6.1	83	6.0	99	5.1	99	5.1	96	5.2	79	6.4
<b>927HO</b>	2700K	750	84	9.0	85	8.8	98	7.6	99	7.6	98	7.7	80	9.3
<b>927VHO</b>	2700K	1000	82	12.2	83	12.0	100	10.0	100	10.0	97	10.3	79	12.7
<b>930SO</b>	3000K	500	89	5.6	91	5.5	105	4.7	106	4.7	103	4.9	86	5.8
<b>930HO</b>	3000K	750	91	8.3	93	8.1	108	7.0	108	7.0	105	7.1	88	8.5
<b>930VHO</b>	3000K	1000	90	11.1	92	10.8	108	9.3	108	9.2	107	9.4	86	11.6
<b>935SO</b>	3500K	500	89	5.6	91	5.5	105	4.8	105	4.8	103	4.9	86	5.8
<b>935HO</b>	3500K	750	90	8.3	92	8.1	107	7.0	107	7.0	105	7.2	88	8.6
<b>935VHO</b>	3500K	1000	90	11.1	92	10.9	108	9.3	108	9.3	106	9.4	86	11.7
<b>940SO</b>	4000K	500	89	5.6	91	5.5	105	4.8	105	4.8	103	4.9	86	5.8
<b>940HO</b>	4000K	750	90	8.3	92	8.1	107	7.0	107	7.0	105	7.2	88	8.6
<b>940VHO</b>	4000K	1000	90	11.1	92	10.9	108	9.3	108	9.3	106	9.4	86	11.7



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

## Custom Output - Lumens OR Wattage

<b>CLB</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CWB</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

## BIOS

	Color	Lumens per foot	Shielding <sup>1</sup>		HE High Efficiency		BW Batwing	
			A Satine					
			LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft
<b>B35</b>	3500K	500	61	8.2	74	6.8	72	6.9
<b>B35HO</b>	3500K	750	61	12.4	74	10.2	71	10.5
<b>B40</b>	4000K	500	63	7.9	76	6.6	73	6.8
<b>B40HO</b>	4000K	750	62	12.2	76	9.9	73	10.2

<sup>1</sup>LPW and watts/ft based off 48" fixture size.

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

- CRI >90, R9 >92
- 3 Channel tunable white for precise black body curve CCT
- Allows for high color consistency between fixtures
- Self-commissioning with Wattstopper DLM integrated controls
- Requires Control Ordering Code **B3LM** (pg. 6)
- Requires Drive Ordering Code **EC2** (pg. 4)

## Blanco 3 Tunable White (TW3)

	Range	Shielding <sup>1</sup>		HE High Efficiency		BW Batwing	
		A Satine					
		Lumens/ft	LPW	Watts/ft	Lumens/ft	LPW	Watts/ft
<b>TW3</b>	2700-6500K	627	74	8.5	747	88	8.5

<sup>1</sup>LPW and watts/ft based off 48" fixture size.

## 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
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>		Required Driver	Required Control
	Color Changing RGB LED	EC1/EC4	DMX
	Color Changing RGB-W LED	EC1/EC4	DMX
	2 Channel Tunable White		

## Length

- For Continuous Runs, add 3/16" (4.7mm) for each end plate or 3/8" (9.5mm) to the overall length of the row
- BIOS and Blanco3 are only available in foot lengths

2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run
24-3/8" (619.1mm)							Specify nominal overall row length to the 1/8" Longer lead-time may apply for lengths to the 1/8". Consult factory.
36-3/8" (934.8mm)							
48-3/8" (1228.7mm)							
60-3/8" (1533.5mm)							
72-3/8" (1838.3mm)							
84-3/8" (2143.1mm)							
96-3/8" (2447.9mm)							

Specify to the 1/8" >>>>

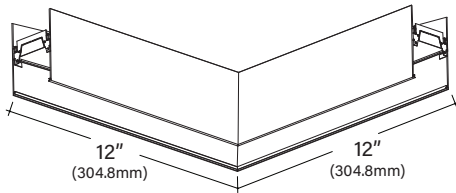
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## Pattern



- 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
- Only available with "A" or "HE" lens options

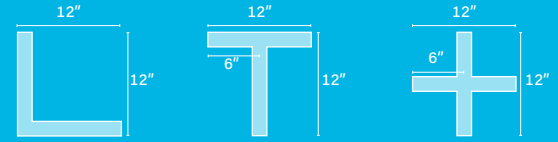
S_	R_x_	U_x_x_	L_x_	T_x_	X_x_	M
Square Provide A dimension Example: <b>S4'</b> Minimum Length-4'x4'	Rectangle Provide Ax B dimensions Example: <b>R4'x4'</b> Minimum Length-4'x4'	U-Shape Provide Ax BxC dimensions Example: <b>U3'x4'x3'</b> Minimum Length-3'x4'x3'	L-Shape Provide Ax B dimensions Example: <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'	Mod Layout For patterns or lengths not shown or standard

## 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

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

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

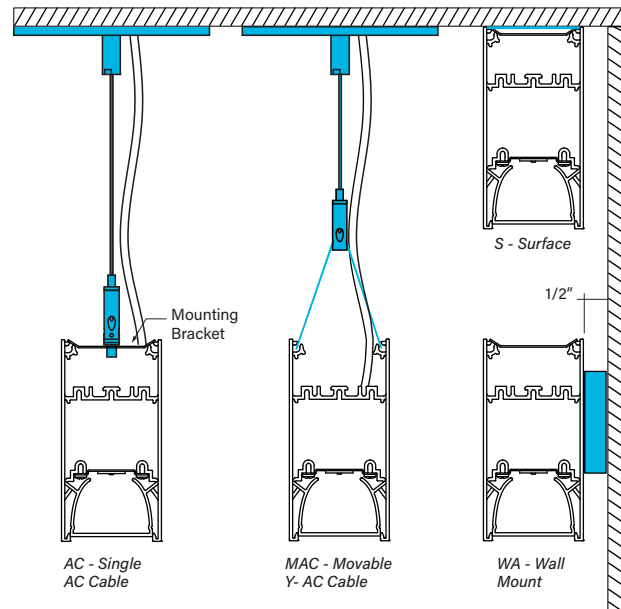


## Mounting

- 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
- Maximum recommended movable mounting locations are 12" from end of 4' fixture and 18" from end of 8' fixture
- AC Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

- Canopies and pendants match fixture finish, power cords are white, grey, 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 20 lbs for a standard 4' fixture
- Top Cover is optional on AC mounting fixtures, Top Cover is standard on others

<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>MAC_G1</b>	Moveable AC 1" (15/16") T-Bar
<b>MAC_G9</b>	Moveable AC 9/16" T-Bar
<b>MAC_GS</b>	Moveable AC Screw Slot T-Bar
<b>MAC_JB</b>	Moveable AC Junction Box
<b>MAC_ST</b>	Moveable AC Structure
<b>MAC5_G</b>	Moveable AC 5" (127mm) Non-Power Canopy
<b>MAC5_JB</b>	Moveable AC 5" (127mm) Non-Power Canopy
<b>MSQ_G</b>	Moveable AC 5" (127mm) Square Canopy
<b>MSQ_JB</b>	Moveable AC 5" (127mm) Square Canopy
<b>WA</b>	Wall Mount
<b>S</b>	Surface Mount



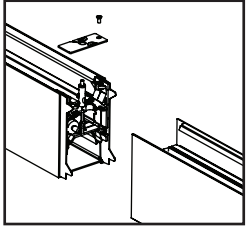
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## Straight EDGE Joint System



- The Straight EDGE Joint comes standard for all runs.
- Two connection points – one to cinch fixtures together, the other to perfectly align all fixtures in a run.
- Factory-installed light shields on both sides of the fixture ensure no light leaks.
- Patented.

## 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

<b>MOD</b>	Recessed to Suspended
	Pendant Pipe

## Voltage

- Some EX2D 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 = PL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EX2D 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, 0.1% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear
<b>OL5</b>	Osram Optotronic 1%, 0-10v, AUX
<b>PL5</b>	Advance Xitanium 1%, 0-10v, AUX
DALI Drivers	
<b>EE3</b>	eldoLED ECOdrive .1%, DALI (logarithmic)
<b>ES3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<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>PR1</b>	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
<b>OD1</b>	Osram Optotronic 1%, DEXAL
<b>EH1</b>	ELV 120v only, 0-10v universal
<b>EC2</b>	Constant Voltage LED driver, 120v or 277v required

## Driver: MOD Options

- Specify **MOD** in the part number for any of the below options
- MOD specifications are subject to longer lead-times. Consult factory for more information

<b>MOD</b>	Power Over Ethernet
------------	---------------------



## How to Specify Circuiting, Battery and Emergency

- 1**
- Select fixture circuiting from options below
  - Some EX2D 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 EX2D configurations will not accommodate all circuiting options, consult with factory

### Battery and/or Emergency If Required

- 0** 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 location dependant on configuration, consult factory
- No battery option available for 2' lengths
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct 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>_FSB</b>	Factory Select Battery (10w option)
<b>_FSBST</b>	Factory Select Battery (Self Testing)
<b>_ILL</b>	lota 10w Integral Lithium, Self Testing
<b>_IRH</b>	lota 20w Remote
<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 Automatic Load Control Relay (ALCR), UNV
<b>_GI</b>	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
<b>_GB</b>	Bodine GTD, Generator Transfer 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>grey 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

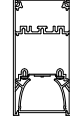
- Additional options to enhance the fixture and finish of the product

QS	Quick Ship
DSP	Customer Supplied Battery/Driver/Sensor
TC	Indirect Top Cover (ac mounting only)

## 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

MOD	Remote Driver
	End Power Feed



\*Cross section with TC Option

## Quick Ship

Shielding	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish
10-Day							
A HE BW WHE	80 CRI, all color temperatures, all lumen packages See pg 2	(M)AC48G_ (M)AC48JB (M)AC48ST W S	U 1 2	Universal (120-277) 120V 277V	FSD PL2 OL2	1 E N	0 _ILL S BL
		(M)AC to Grid (M)AC to J-BOX (M)AC to Structure Wall Mount Surface Mount		Factory Select Driver (1%, 0-10v) Advance Xitanium 0-10v, 1% Osram 0-10v, 1%	Single Circuit Emergency Night Light	None lota 10w Integral	White Silver Black

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Black QuickShip only available in 4', 6', and 8' individual lengths. Consult factory for larger projects.

## Controls

- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; comissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- One drop per sensor typical, consult factory for more information

	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitation
DLMFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, one RJ45 ports	OL2, OL4	Not available with Battery
DLMFS	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR1, 0-10v	0-10v requires interface
EASYS	Philips EasySense	SNS-210	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
SNSLM	Encelium Sensilum	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
WLVX	Eaton Wavelinx	SWPD1, NSP3IVMVD01	WaveLinx WCL, Daylight	Wireless	Any 0-10v	Not available with 347 volt
VDO	Lutron Vive Sensor	DFCSJ-OEM-OCC	Vive, Daylight/PIR Occupancy	Wireless	OD1, PR1	Not available with 347 volt
VRF	Lutron Vive Connected	DFCSJ-OEM-RF	Vive	Wireless	OD1, PR1	Not available with 347 volt
ENLI	Enlighted	SU-5E-IOT, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt
ENLC	Enlighted	SU-5E-CL, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt

## Controls: Tunable White

- Pinnacle Lighting offers easy to specify tunable white solutions for integrated building control solutions or standalone controls
- Pinnacle Lighting fixtures ship technology ready; comissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout or placement

	Solution	Components	Network/Sensor	Connection	RQD Drivers	RQD LED	RQD Controls	Limitations
B3LM	Legrand Wattstopper Blanco 3	BLM3-DLM	Digital Lighting Management (DLM)	Wired, two RJ45 ports	EC2	TW3	B3LM	Not available with 347 volt

## Controls: 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

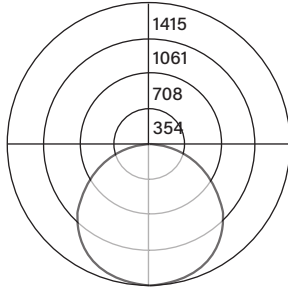
MOD	Required Driver
Enlighted (Wireless) - ENLI	Any 0-10v
Enlighted (Wireless) - ENLC	Any 0-10v
Encelium Sensilum	OD1, OL5
Acuity nLight Air Wireless Connected	EE6, ES6



## Photometrics

### Satine Lens

Test #	ITL91441
Catalog #	EX2D-A-840VHO-4
Lumens	3986 lm
Watts	37.5 W
Efficacy	106 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1415	1415	1415	1415	1415
5	1410	1409	1408	1407	1406
10	1393	1387	1388	1387	1386
15	1365	1353	1356	1355	1352
20	1323	1307	1313	1312	1306
25	1271	1252	1258	1254	1249
30	1207	1187	1191	1187	1182
35	1132	1115	1117	1108	1103
40	1050	1032	1032	1023	1017
45	957	943	939	929	923
50	858	843	837	827	823
55	752	737	729	717	712
60	636	623	613	601	598
65	518	504	495	484	479
70	392	384	370	361	360
75	270	261	251	244	239
80	152	146	140	135	133
85	54	54	50	46	47
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19610	19241	18913
55	18997	18416	17986
65	17760	16971	16422
75	15115	14052	13380
85	8977	8312	7814

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-T6 Extruded aluminum housing. Highly reflective steel white painted reflector.

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

**Mounting:** Aircraft cable and wall mount available. Select from 2 aircraft cable options. Select the straight aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers or the moveable adjustable Y-cable mount. The Y-Cable design allows for adjustable mounting locations. 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 20 lbs. for a standard 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](http://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. 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.

**Tunable White LED:** Blanco 3; 3 Channel tunable white for precise black body curve CCT. Self-commissioning with Wattstopper DLM integrated controls. Custom lumen output and color temperature configurations require use of controls.

**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 122°F/50°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:** DLM utilizes wired network connections for digital control through switching and dimming. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PIR using eldoLED LED drivers. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PDT using eldoLED LED drivers. nLight Air rIO module provides wireless control using eldoLED LED drivers. EasySense sensor provides daylight harvesting and PIR occupancy detection using the SR LED driver; the Philips app provides advanced configurations. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL driver. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL driver. Wavelinx Connected Lighting sensor provides wireless control and daylight harvesting using 0-10V LED drivers. Lutron Vive sensor provides wireless control, daylight harvesting and PIR occupancy detection using DEXAL or SR LED drivers. Lutron Vive module provides wireless control using DEXAL or SR LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for IOT platform using 0-10v LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for Connected platform using 0-10v LED drivers.

**Labels:** ETL listed conforming to UL 1598 and CSA 250. Standard, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Fixture Weight:** Maximum fixture weight is 20lbs per 4' fixture.

**Buy American Act Compliant**

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