

See Housing
Section

EDGE EV2DPM

2" Recessed Perimeter

Key Features

- Extruded aluminum trim with formed cold rolled 18 gauge steel back box housing
- Highly reflective white painted steel reflector
- 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



Example Part #: EV2DPM2-HE-830HO-26'-G1-U-PL2-1-0-W

HOUSING	SHIELDING	SOURCE	LENGTH OR PATTERN	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS
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HOUSING	SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²
EV2DPM - Edge 2, Perimeter EV2DPM2 - Edge 2, Perimeter, 2" Regress EV2DPM3 - Edge 2, Perimeter, 3" Regress <i>Housing pg. 2</i>	A - Satine Lens HE - High Efficiency Lens R - Regress Lens <i>Shielding pg. 2</i>	_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 <i>Lumen Output pg. 2-3</i>	_ - 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 LI_x - Inside L Shape LO_x - Outside L Shape <i>Length pg. 3-4</i>

MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
G1(G) - 1" (15/16") T Bar G9(G) - 9/16" T Bar GB(G) - 9/16" Bevel T Bar GS(G) - Screw Slot T Bar FL(F) - 1/2" Flange NF(N) - Non Flange SF(S) - Spackle Flange <i>Mounting pg. 4</i>	U - Universal <i>(120 thru 277V)</i> 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 5</i>	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - Osram (1%, 0-10v) OL4 - Osram 347V (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) L51 - Lutron 5-Series (5%, EcoSystem) PR1 - Advance Xitanium SR <i>Driver pg. 5</i>	1 - Single Circuit M - Multi Circuit E - Emergency <i>(entire fixture)</i> N - Night Light <i>(entire fixture)</i> <i>Circuiting pg. 5</i>

BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS	CONTROLS ⁵
0 - None _FSG - Factory Select ALCR _GB - Bodine GTD _GI - Iota ETS DR _P - Bodine 10W _IC - Iota 10W _E - Emergency Circuit Section _N - Night Light Circuit Section _L - Life Safety Circuit Section <i>Battery and Emergency pg. 5-6</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 6</i>	CP - Chicago Plenum GLR - Internal Fast Blow Fuse FIL - Field Cut Illuminated Extension <i>Fixture Options pg. 6</i>	B3LM - Wattstopper Blanco 3 DLM (wired) <i>Controls pg. 6</i>

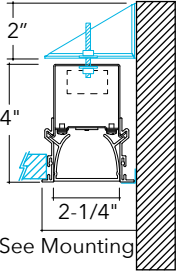
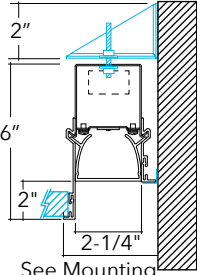
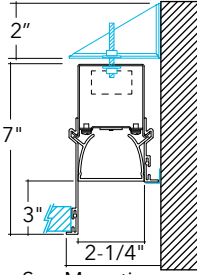
¹When specifying SOURCE the first _ is for specifying either **8** - 80CRI, **9** - 90CRI or **B** - BIOS. The ending _ are for specifying output, example **HO** - High Output. When specifying BIOS use **B** and then specify color temperature, either 3500K or 4000K, and output, example **B35HO** - BIOS 3500K High Output. See output charts for more information. BIOS dynamic available, please contact factory for more information. ²Individual fixtures come in **2', 3', 4', 5', 6', 7' & 8'** lengths. Continuous row come in 1/8" increments. For Patterns, specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify mounting for individual or continuous length: **G1, G9, GS, FL, NF & SF** for continuous rows, **G1G, G9G, GSG, FLF, NFN & SFS** for individual lengths. ⁴Enter quantity for Battery and Emergency, Example 2P. ⁵Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information.

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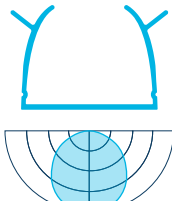
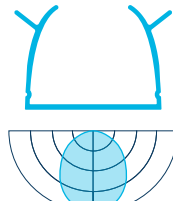
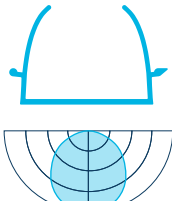
Housing

- 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).

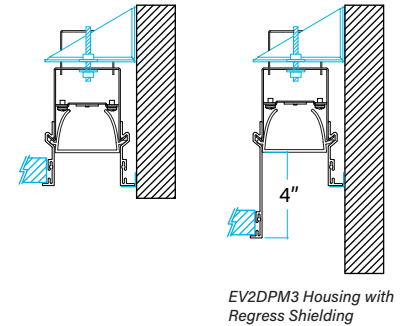
EV2DPM	EV2DPM2	EV2DPM3
Edge 2, Perimeter	Edge 2, Perimeter 2" Regress	Edge 2, Perimeter 3" Regress
		

Shielding

- Regress Lens option uses housing with backbox. Back box does not impact mounting. see detail.

A	HE	R
Satine Lens	High Efficiency	Regress 1-1/8" regress
		

Regress Detail



Source: White LED¹

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

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 ¹		HE	
			A Satine LPW	Watts/ft	High Efficiency LPW	Watts/ft
830	3000K	500	101.6	4.9	120	4.2
830HO	3000K	750	102.5	7.3	121	6.2
830VHO	3000K	1000	N/A		121	8.3
835	3500K	500	104.4	4.8	123	4.1
835HO	3500K	750	104.8	7.2	124	6.1
835VHO	3500K	1000	N/A		124	8.1
840	4000K	500	104.9	4.8	124	4.0
840HO	4000K	750	106.1	7.1	125	6.0
840VHO	4000K	1000	N/A		126	8.0

90 CRI

927	2700K	500	84.1	5.9	101	4.9
927HO	2700K	750	85.3	8.8	102	7.3
930	3000K	500	87.0	5.7	105	4.8
930HO	3000K	750	87.9	8.5	105	7.1
935	3500K	500	89.0	5.6	106	4.7
935HO	3500K	750	89.9	8.3	108	7.0
940	4000K	500	88.3	5.7	105	4.7
940HO	4000K	750	89.2	8.4	107	7.0

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

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Source: BIOS¹

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

BIOS

	Color	Lumens per foot	Shielding ¹		HE	
			A		High Efficiency	
			Satine LPW	Watts/ft	LPW	Watts/ft
B35	3500K	500	63.4	7.9	77	6.5
B35HO	3500K	750	62.0	12.1	77	9.7
B40	4000K	500	63.4	7.9	77	6.5
B40HO	4000K	750	62.0	12.1	77	9.7

Source: Blanco³

- 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 ¹			HE		
		A			High Efficiency		
		Satine Lumens/ft	LPW	Watts/ft	Lumens/ft	LPW	Watts/ft
TW3	2700- 6500K	647	77	8.5	769	91	8.5

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

Length

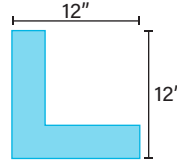
- All individual units cannot be joined, end trims are factory installed and cannot be removed
- Refer to Pattern section for specification and ordering options
- Continuous Rows are made up of even and odd length fixtures; designed to fall on-grid
- BIOS and Blanco3 are only available in foot lengths

2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1/8"
23" (584.2mm)							
	35" (889mm)						
		47" (1193.8mm)					
			59" (1498.6mm)				
				71" (1803.4mm)			
					83" (2108.2mm)		
						95" (2413mm)	
Specify to the 1/8" >>>>							

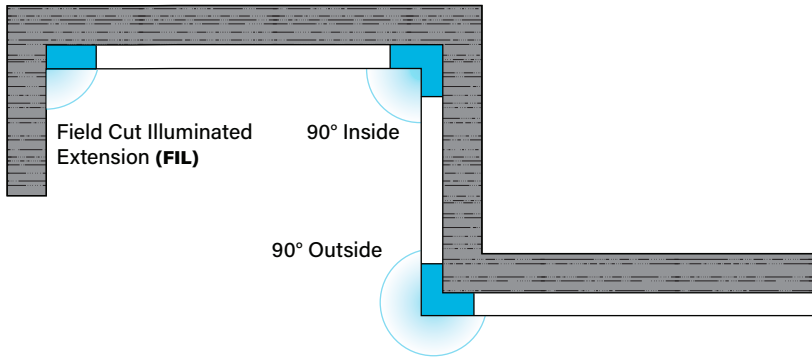


Pattern

- 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 (UI) or Outside (UO) Provide overall length dimension for each fixture leg		L-Shape, Inside (LI) or Outside (LO) Provide overall length dimension for each fixture leg	



Mounting

- Individual Units, specify G_G, FLF, SFS, NFN
- Continuous Units, specify G_, FL, SF, NF
- 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

G1G Individual Unit	G9G	GBG	GSG	FLF	NFN	SFS
G1 Continuous Run or Pattern 1" (15/16") T-Bar Flange to Flange: 3-1/16" (77.8mm)	G9 9/16" T-Bar For tegular tile installations, fixture position will not be flush to the bottom of the tile Flange to Flange: 3-1/16" (77.8mm)	GB 9/16" T-Bar Rail has bevel edge details. For tegular tile installations, fixture position will be flush to the bottom of the tile Flange to Flange: 3-1/16" (77.8mm)	GS Screw Slot & 9/16" T-Bar For 9/16" installations with tegular tile, fixture position will be flush to the bottom of the tile Flange to Flange: 3-1/16" (77.8mm)	FL Exposed Standard 1/2" Flange Detail Flange to Flange: 3-3/8" (85.7mm)	NF Metal Pan or Millwork Flange to Flange: 2-11/16" (68.2mm)	SF Drywall, Flangeless Detail Flange to Flange: 4-1/4" (108mm)
 Standard Tile Tegular Tile	 Standard Tile Tegular Tile	 Tegular Tile	 Tegular Tile	 	 	

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Voltage

- Some EV2D 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 = PL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EV2D 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	Osram Optotronic, 1%, 0-10v
OL4	Osram 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% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
OL5	Osram Optotronic 1%, 0-10v, AUX

DALI Drivers

EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)
EE4	eldoLED SOLOdrive .1%, DALI (linear)
OD1	Osram Optotronic 1%, DEXAL
OD2	Osram Optotronic 1%, DALI 2 Channel

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only

Alternate Drivers

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

How to Specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
 - Some EV2D configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit <i>(Not available with controls)</i>
E	Emergency Circuit only <i>(uses nIO EZ PH ER with NLIGHT)</i>
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 EV2D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency *If Required*

0	No battery or specific emergency section required
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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
_P	Bodine 10w Integral
_IC	Iota 10w Integral <i>(CEC Listed)</i>

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- $92.3 \text{ (LPW)} \times 10 \text{ (watts)} = 923 \text{ battery lumen output}$

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Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_E	Emergency circuit section <i>(NLIGHT ONLY full housing not sections)</i>
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE
_G	Bodine GTD, Generator Transfer Device section

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 Ordering Code: 1-1P1E
- Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2P2E
- 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
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

CP	Chicago Plenum
GLR	Internal Fast Blow Fuse
FIL	Field Cut Illuminated Extension

Controls: Tunable White

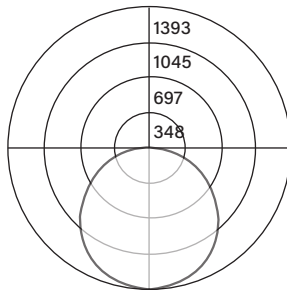
- Pinnacle Lighting offers easy to specify tunable white solutions for integrated building control or standalone controls
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E),
- Contact factory for any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

Photometrics

Satine Lens

Test # ITL91423
Catalog # EV2D-A-840VHO-4
Lumens 3984 lm
Watts 36.2 w
Efficacy 110 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1393	1393	1393	1393	1393
5	1388	1387	1388	1390	1390
10	1372	1370	1375	1375	1373
15	1343	1339	1347	1345	1343
20	1302	1295	1302	1301	1298
25	1250	1241	1250	1247	1243
30	1187	1178	1186	1183	1178
35	1114	1105	1112	1105	1102
40	1032	1024	1028	1021	1018
45	942	935	937	930	927
50	846	838	838	832	828
55	739	730	731	723	722
60	627	621	618	612	610
65	508	505	499	494	491
70	387	383	377	375	374
75	264	263	258	255	256
80	148	146	146	145	144
85	52	53	54	55	54
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19508	19404	19197
55	18867	18663	18433
65	17602	17290	17013
75	14937	14597	14484
85	8737	9073	9073

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.

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Applications & Certificates

Housing: Formed cold-rolled 18 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 on-grid). 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. All 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. 80 CRI = R9≥19 and 90 CRI = R9≥61.

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 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: ETL listed conforming to UL1598 abd 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 15lbs per 4' fixture.

Buy American Act Compliant

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