

## EDGE EX3WW

3" Suspended Direct Linear Wall Wash

### Key Features

- 6063-T5 Extruded aluminum housing
- Extruded aluminum module with micro reflector for perfect wall washing illumination
- Wiring access available through bottom of housing
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted
- Buy American Act compliant



Example Part #: EX3-WW-N-830HO-26'-AC48G1-U-OL2-1-0-W

**EX3** - **WW** - **N** - **CRI, CCT & OUTPUT** - **LENGTH OR PATTERN** - **MOUNTING** - **VOLTAGE** - **DRIVER** - **CIRCUITING** - **BATTERY & EMERGENCY** - **FINISH** - **FIXTURE OPTIONS**

WW	N	---	---
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT <a href="#">QS</a> <sup>1</sup>	LENGTH <sup>2</sup>
<b>WW</b> - Wall Wash <a href="#">QS</a> <i>Shielding pg. 2</i>	<b>N</b> - None <a href="#">QS</a> <i>Shielding pg. 2</i>	<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 <i>Lumen Output pg. 2</i>  <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output; Blank = Standard Output</i>	<b>---</b> - Individual Fixture <a href="#">QS</a> <b>---</b> - Continuous Row <a href="#">QS</a> <i>Length pg. 2</i>
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MOUNTING <sup>3</sup>	VOLTAGE	DRIVER	CIRCUITING
<b>AC_G</b> - (M)AC to Grid <a href="#">QS</a> <b>AC_JB</b> - (M)AC to J Box <a href="#">QS</a> <b>AC_ST</b> - (M)AC to Structure <a href="#">QS</a> <b>AC5_G</b> - 5" Non-Power Canopy <b>AC5_JB</b> - 5" Non-Power Canopy <b>SQ_G</b> - 5" Square Canopy <b>SQ_JB</b> - 5" Square Canopy <b>S</b> - Surface Mount <a href="#">QS</a> <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <a href="#">QS</a> <b>1</b> - 120V <a href="#">QS</a> <b>2</b> - 277V <a href="#">QS</a> <b>3</b> - 347V <i>Voltage pg. 3</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10V) <a href="#">QS</a> <b>PL2</b> - Advance Xitanium (1%, 0-10V) <a href="#">QS</a> <b>OL4</b> - Osram 347V (1%, 0-10V) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10V) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10V) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>OL2</b> - Osram (1%, 0-10V) <a href="#">QS</a> <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <a href="#">QS</a> <b>M</b> - Multi Circuit <b>E</b> - Emergency (entire fixture) <a href="#">QS</a> <b>N</b> - Night Light (entire fixture) <a href="#">QS</a> <i>Circuiting pg. 4</i>
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BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS <sup>5</sup>	CONTROLS
<b>0</b> - None <a href="#">QS</a> <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>PLL</b> - Bodine 10W <a href="#">QS</a> <b>ILL</b> - Iota 10W Integral CEC Listed <a href="#">QS</a> <b>E</b> - Emergency Section <b>N</b> - Night Light Section <b>L</b> - Life Safety Section <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <a href="#">QS</a> <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 4</i>	<b>QS</b> - QuickShip <a href="#">QS</a> <b>MRF</b> - Fixed MR16 (Halogen) <b>LMRF</b> - Fixed MR16 (LED) <b>LC</b> - Clear Lens <b>DSP</b> - Customer Supplied Battery/Driver/ Sensor <b>B</b> - Baffle <i>Fixture Options pg. 5</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

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. If specifying QS output is 80 CRI, all color temperatures, all lumen packages. Does not include BIOS or Tunable White. See output charts for more information. BIOS dynamic available, please contact factory for more information

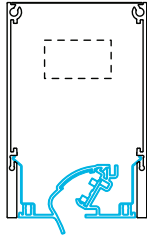
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## Direct Shielding

**WW**

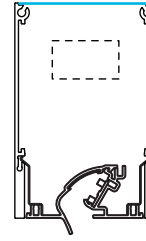
Wall Wash



## Indirect Shielding

**N**

None



## Output

- 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

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835400)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

### 80 CRI

	Color	Output	Watts per foot	Shielding <b>WW</b> Wall Wash Lumens/ft	LPW
<b>830</b>	3000K	Standard	6.0	329	54.6
<b>830HO</b>	3000K	High	10.3	511	49.7
<b>835</b>	3500K	Standard	6.0	343	56.9
<b>835HO</b>	3500K	High	10.3	534	52.0
<b>840</b>	4000K	Standard	6.0	352	58.4
<b>840HO</b>	4000K	High	10.3	548	53.3

### 90 CRI

<b>927</b>	2700K	Standard	6.0	270	44.8
<b>927HO</b>	2700K	High	10.3	420	40.9
<b>930</b>	3000K	Standard	6.0	304	50.5
<b>930HO</b>	3000K	High	10.3	471	45.8
<b>935</b>	3500K	Standard	6.0	309	51.3
<b>935HO</b>	3500K	High	10.3	481	46.8
<b>940</b>	4000K	Standard	6.0	314	52.1
<b>940HO</b>	4000K	High	10.3	489	47.6

## Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, add 1/2" (12.7mm) to the overall length of the row to account for end plates

2	3	4	5	6	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)						
36" (914.4mm)						
48" (1219.2mm)						
60" (1524mm)						
72" (1828.8mm)						
96" (2438.4mm)						

Specify to the 1' >>>

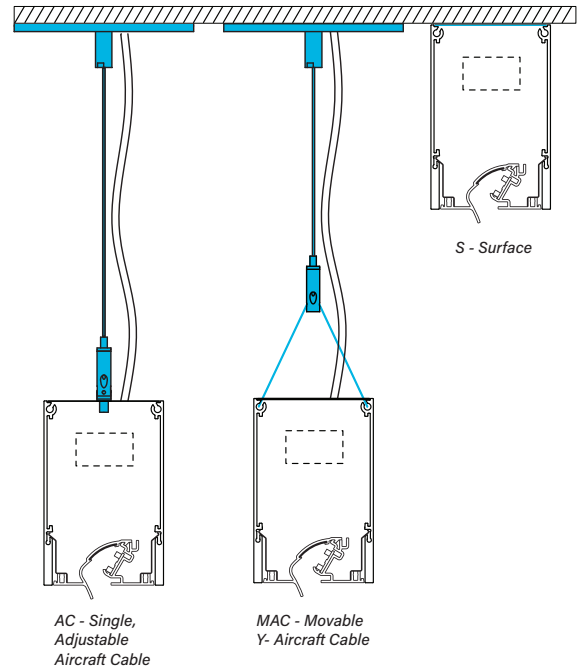


## Mounting

- Specify cable length in ordering code (AC48G1)
- Standard 48" adjustable cable. Specify up to 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

- 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 10 lbs for a standard 4' fixture
- Designed to be 12"-18" away from wall for optimal performance

<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>S</b>	Surface Mount



## Voltage

- Some EX3WW 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 EX3WW configurations will not accommodate all driver options; consult wit 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% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear

### DALI Drivers

<b>EE3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>EE4</b>	eldoLED SOLOdrive .1%, DALI (linear)
<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>EH1</b>	ELV 120v only, 0-10v universal

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## How to specify Circuiting, Battery and Emergency

1

- Select fixture circuiting from options below
- Some EX3WW 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 EX3WW configurations will not accommodate all circuiting options, consult with factory

### Battery and/or Emergency If Required

<b>0</b>	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 is remote to fixture and requires an additional drop
- 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>_IC</b>	Iota 10w Integral
<b>_ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>_IRH</b>	Iota 20w Remote
<b>_P</b>	Bodine 10w Integral
<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 ALCR, Automatic Load Control Relay
<b>_GI</b>	Iota ETS DR, Emergency Lighting Control Device
<b>_GB</b>	Bodine GTD, Emergency Lighting Control Device
<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: 1-1P |
| • 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

<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
- Consult factory for MR16 configurations
- Specify CC-C to match housing. If not specified, canopy will be standard matte white

<b>QS</b>	Quick Ship
<b>MRF</b>	Fixed MR16 Halogen <i>(only available with 120v)</i>
<b>LMRF</b>	Fixed MR16 LED <i>(only available with 120v)</i>
<b>LC</b>	Clear Lens
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>B</b>	Baffle

## Quick Ship

Shielding	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish
10-Day							
WW	80 CRI, All color temperatures, all lumen packages See pg 5&6	(M)AC48G_ (M)AC to Grid (M)AC48JB (M)AC to J_BOX (M)AC48ST (M)AC to Stucture S Surface Mount	U Universal (120 - 277) 1 120V 2 277V	FSD Factory Select Driver (1%, 0-10v) PL2 Advance Xitanium 0-10v, 1% OL2 Osram 0-10v, 1%	1 Single Circuit E Emergency N Night Light	1P Bodine 10w Integral 1LL Iota 10w Integral	W White

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Consult factory for larger projects.

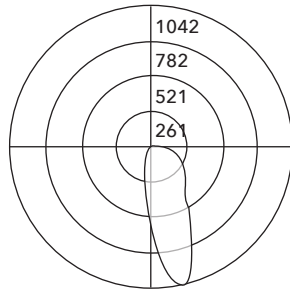
## Controls

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

## Photometrics

### Wall Wash

Test #	ITL82933
Catalog #	EX3WW-840-4
Lumens	1406 lm
Watts	24.1 W
Efficacy	58 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	566	566	566	566	566
5	793	731	567	434	371
10	996	891	563	301	230
15	1038	999	554	210	140
20	903	1016	541	144	88
25	709	926	523	96	69
30	581	765	503	73	57
35	470	611	476	61	48
40	411	509	446	50	39
45	373	408	412	41	29
50	342	351	376	33	11
55	316	310	336	24	4
60	287	275	292	7	3
65	252	243	248	3	1
70	214	208	204	2	1
75	173	167	157	1	0
80	146	124	106	1	0
85	122	95	41	0	0
90	95	70	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19888	24775	38132
55	17529	20163	38110
65	15088	17640	38063
75	11620	14192	38811
85	9643	10232	28436

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

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## Applications & Certificates

**Construction:** 6063-T5 Extruded aluminum housing.

**Shielding:** Extruded aluminum module with micro reflector for perfect wall wash illumination.

**Mounting:** Aircraft cable, wall and surface 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. (See installation instructions for MR16 mounting detail). 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.

**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. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 122,900 hours and L90 = 36,600 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).

**CRI, CCT & Lumen Output:** 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. 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.

**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 Evolution 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 96°F/35°C. For more driver options, see Pinnacle Resource Guide. Some Evolution configurations will not accommo-

date 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 Evolution 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 or for additional custom color and finish options.

**MR16:** Ideal for conference rooms, corridors, wall washing, retail spaces and training facilities where accent lighting is required. Fully enclosed compartment eliminates light from entering into our fixture areas. For LED and Halogen lamps (lamps are not included). Consult factory for other lamp types. Standard 60 watt max LED electronic transformer (120v), 50 watt max halogen lamp electronic transformer (120v), MR16 installed as an independent circuit. MR16 to match fixture voltage, 277v not available. Consult factory for MR16 configurations. Pinnacle's MR16 applications are to be used with Sora lamps with a maximum of 13 transformers on one circuit.

**Controls** Consult factory.

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

**Buy American Act Compliant**

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