

# EDGE EX33

## 3"x 3" Suspended Direct Linear

### Key Features

- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 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
- Maximum weight is 15 lbs. for a standard 4' fixture
- Buy American Act compliant



Example Part #: EX33-A-N-830HO-26'-AC48G1-U-OL2-1-0-W

**EX33** - **A** - **N** - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
DIRECT SHIELDING    INDIRECT SHIELDING    CRI, CCT & OUTPUT    LENGTH OR PATTERN    MOUNTING    VOLTAGE    DRIVER    CIRCUITING    BATTERY & EMERGENCY    FINISH    FIXTURE OPTIONS    CONTROLS

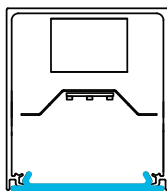
A	N	-----	----
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT	LENGTH OR PATTERN <sup>1</sup>
<b>A</b> - Satine Lens <i>Shielding pg. 2</i>	<b>N</b> - None <i>Shielding pg. 2</i>	<b>_27_</b> - 2700K <b>_30_</b> - 3000K <b>_35_</b> - 3500K <b>_40_</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - 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 <b>_ _</b> - Continuous Row <b>S</b> - Square <b>R_X</b> - Rectangle <b>L_X</b> - L Shape <b>U_X</b> - U-Shape <b>M</b> - Mod Layout <i>Length and Pattern pg. 2-3</i>
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MOUNTING <sup>2</sup>	VOLTAGE	DRIVER	CIRCUITING
<b>AC_G</b> - AC to Grid <b>AC_JB</b> - AC to J Box <b>AC_ST</b> - AC to Structure <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>PP_JB</b> - Pendant Pipe to J Box <b>PP_ST</b> - Pendant Pipe to Structure <b>WA</b> - Wall Mount <b>S</b> - Surface <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 4</i>	<b>OL2</b> - Osram (1%, 0-10v, standard) <b>OL3</b> - Osram 347v (10%, 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>L51</b> - Lutron 5-Series (5%, EcoSystem) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>PS1</b> - Advance Xitanium (50%/100%) <b>ND</b> - Non-Dimming <i>Driver pg. 4</i>	<b>1</b> - Single Circuit <b>M</b> - Multi Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <i>Circuiting pg. 4</i>
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BATTERY & EMERGENCY <sup>3</sup>	FINISH	CONTROLS	
<b>0</b> - None <b>_PL</b> - Bodine 10W Integral (low profile) <b>_IL</b> - Iota 10W Integral (low profile) <b>_E</b> - Emergency Section <b>_N</b> - Night Light Section <b>_L</b> - Life Safety Section <b>_G</b> - Bodine GTD <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <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. 5</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>	

<sup>1</sup> Individual fixtures come in 2', 3', 4', 5', 6', 8' & 12' lengths. Continuous row come in 1' increments. For Mod layouts specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. <sup>2</sup> Example AC48G9 = 48" AC to G9 grid. Specify AC length, 48", 120, 240". Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example AC48G1. Pendant Pipe, specify length 12", 18" 24". Example PP18JB = 18" Pendant Pipe to J Box. <sup>3</sup>Enter quantity for Battery and Emergency, Example 2PL.



Direct Shielding

**A**  
Satine Lens



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

80 CRI

	Color	Output	Watts <i>per foot</i>	Shielding <b>A</b> Satine	
				Lumens/ft	LPW
<b>830</b>	3000K	Standard	4.6	335	72.8
<b>830HO</b>	3000K	High	8.6	612	71.0
<b>835</b>	3500K	Standard	4.6	345	75.0
<b>835HO</b>	3500K	High	8.6	630	73.0
<b>840</b>	4000K	Standard	4.6	352	76.5
<b>840HO</b>	4000K	High	8.6	642	74.4

90 CRI

<b>927</b>	2700K	Standard	4.6	265	57.6
<b>927HO</b>	2700K	High	8.6	484	56.1
<b>930</b>	3000K	Standard	4.6	309	67.2
<b>930HO</b>	3000K	High	8.6	564	65.4
<b>935</b>	3500K	Standard	4.6	311	67.6
<b>935HO</b>	3500K	High	8.6	567	65.7
<b>940</b>	4000K	Standard	4.6	314	68.3
<b>940HO</b>	4000K	High	8.6	573	66.4

Length

- All individual units cannot be joined, SJT cord and end plates are factory installed and cannot be removed
- For Continuous Runs, add 1/16" (1.6mm) for each end plate or 1/8" (3.2mm) to the overall length of the row
- For patterns, refer to Pattern section on next page

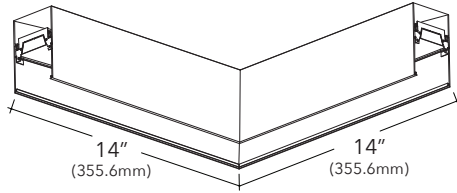
2	3	4	5	6	8	12	–
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run <i>Specify nominal overall row length to the 1'</i>
24-1/8" (612.7mm)							
36-1/8" (917.6mm)							
48-1/8" (1222.4mm)							
60-1/8" (1527.2mm)							
72-1/8" (1831.9mm)							
96-1/8" (2441.6mm)							
144-1/8" (3660.8mm)							

Specify to the 1'

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.

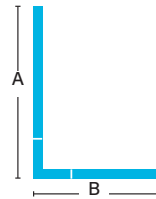
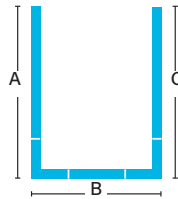
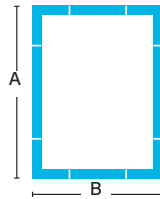
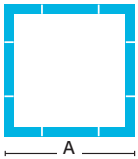


**Pattern**



- 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 14"x14" (overall, outside dimension)
- Not all drivers available with all patterns; consult factory
- Angles and shapes not shown require Mod Pattern; consult factory

<b>S_</b>	<b>R_x</b>	<b>U_x_x</b>	<b>L_x</b>	<b>M</b>
Square Provide A dimension Example: <b>S4'</b> Nominal Length- 4'x4' Minimum Length- 4'4"x4'4"	Rectangle Provide AxB dimensions Example: <b>R4'x4'</b> Nominal Length- 4'x4' Minimum Length- 4'4"x4'4"	U-Shape Provide AxBxC dimensions Example: <b>U3'x4'x3'</b> Nominal Length- 3'x4'x3' Minimum Length- 3'2"x4'4"x3'2"	L-Shape Provide AxB dimensions Example: <b>L3'x3'</b> Nominal Length- 3'x3' Minimum Length- 3'2"x3'2"	ModLayout For patterns or lengths not shown or standard

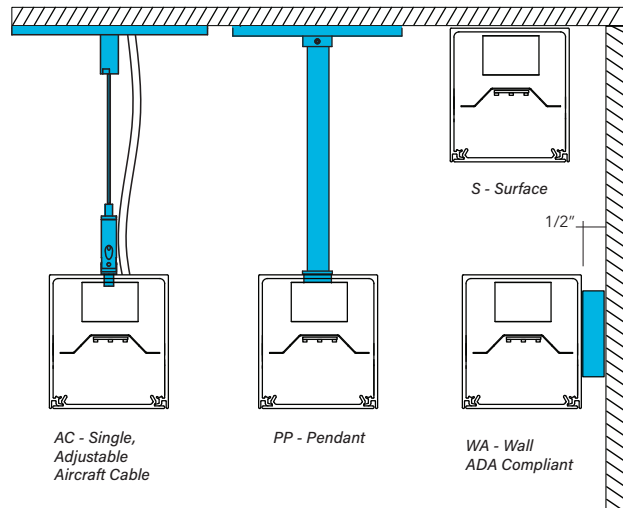


**Mounting**

- Specify cable length in ordering code (AC48G1)
- Standard 48" adjustable cable. Specify up to 350"
- End plates and standard white power cord attached at factory
- Aircraft Cable (AC) mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- 3/8" diameter pendant pipe lengths are 12', 18', and 24"

- 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 jobsite
- Maximum fixture weight is 15 lbs for a standard 4' fixture

<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>PP_JB</b>	Pendant Pipe Junction Box
<b>PP_ST</b>	Pendant Pipe Structure
<b>WA</b>	Wall Mount
<b>S</b>	Surface





## Voltage

- Some EX33 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 = OL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX33 configurations will not accommodate all driver options; consult with factory

<b>OL2</b>	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
<b>OL3</b>	Osram Optotronic 347v 10%, 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>ES1</b>	eldoLED SOLOdrive 0%, 0-10v Logarithmic
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PS1</b>	Advance Xitanium Step Dimming 50%/100%
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>L51</b>	Lutron 5-Series 5%, EcoSystem, LDE5
<b>ND</b>	Non-Dimming

## How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
  - Some EX33 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

- Battery and emergency section options are available in addition to fixture circuit
  - Select battery and emergency section options below; factory shop drawing required
  - Some EX33 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 2PL*
- 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 fixture is on battery for 6' or 8'; 1/3 of fixture is on battery 12' housing lengths
- For more battery options available, see Pinnacle Resource Guide

<b>0</b>	No battery
<b>_PL</b>	Bodine 10w Integral <i>(low profile)</i>
<b>_IL</b>	Iota 10w Integral <i>(low profile)</i>

### 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>_E</b>	Emergency circuit section
<b>_N</b>	Night Light circuit section
<b>_L</b>	Life Safety circuit section NO THROUGH WIRE
<b>_G</b>	Bodine GTD, Generator Transfer Device section

#### For Approximate Battery Lumen Output

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

#### 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

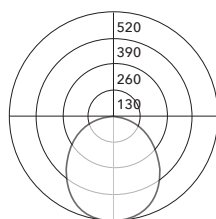
<b>W</b>	White (white cord/white canopy)
<b>S</b>	Metallic Silver (grey cord/silver canopy)
<b>BL</b>	Textured Black (black cord/black canopy)
<b>BR</b>	Bronze (white cord/bronze canopy)
<b>GR</b>	Graphite (white cord/graphite canopy)
<b>CC</b>	Custom Color (white cord/color match canopy)

## Controls

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

## Photometrics Satine Lens

Test #	ITL86382
Catalog #	EX33-A-N-840-4
Lumens	1406 lm
Watts	18.4 W
Efficacy	76 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	520	520	520	520	520
5	517	516	515	515	515
10	510	505	505	504	504
15	496	492	491	490	488
20	479	471	472	470	468
25	455	446	447	444	441
30	428	419	419	415	413
35	397	389	388	384	382
40	363	357	355	351	348
45	327	321	320	316	315
50	290	285	284	279	279
55	252	249	247	243	243
60	214	210	209	206	206
65	175	172	170	168	168
70	138	135	132	131	131
75	100	98	97	96	96
80	64	62	61	61	61
85	32	31	30	29	29
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5080	4970	4891
55	4819	4722	4644
65	4555	4422	4369
75	4238	4108	4065
85	3981	3724	3595

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-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

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

**Mounting:** Aircraft cable, Pendant Pipe and Wall mount available. The aircraft cable mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Pendant Pipe lengths are 12", 18", and 24". Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 15 lbs. per 4' fixture.

**LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. 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. L70 = 136,200 hours and L90 = 41,100 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 & 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 OL3 in Driver section when 347 volt (3) is selected. Some EX configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Osram 0-10V, 1% = OL2. 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 114°F/46°C. For more driver options, see Pinnacle Resource Guide. Some EX 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), Night Light circuit (N) or Life Safety (L). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

**Battery & Emergency:** Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish:** Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Pendants and canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

**Controls:** Consult factory.

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

**Fixture Weight:** Maximum fixture weight is 15 lbs. per 4' fixture.

**Buy American Act Compliant**

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