

# EDGE EX31

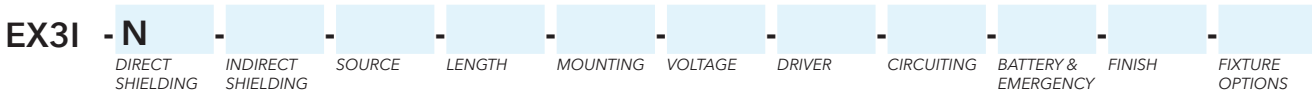
## 3" Suspended Indirect Linear

### Key Features

- Boards and driver are specifically for Indigo Clean®
- Indigo Clean® emits 405nm light which targets bacteria & produces intra-cellular Reactive Oxygen Species (ROS)
- Standard, white luminaire that provides on-demand disinfection when light is on
- Laboratory-tested disinfection
- Unlike UV disinfection, light is safe for occupants
- Proven effectiveness per independent lab test results
- Provides a cleaner, safer environment, even in areas normal cleaning doesn't reach



Example Part #: EX31-N-HE-IC37-26'-AC48G1-U-ND-1-0-W



N		---	
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE	LENGTH <sup>1</sup>
N - None	HE - High Efficiency	IC37 - Indigo Clean LED, 3700K IC43 - Indigo Clean LED, 4300K Source pg. 2	__ - Individual Fixture __ - Continuous Row Length pg. 2
MOUNTING <sup>2</sup>		VOLTAGE	DRIVER <sup>3</sup>
AC__G - AC to Grid AC__JB - AC to J Box AC__ST - AC to Structure 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 Mounting pg. 2	U - Universal (120 thru 277V) 1 - 120V 2 - 277V Voltage pg. 3	OL1 - Osram (10%, 0-10v) ND - Non-Dimming Driver pg. 3	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 3
BATTERY & EMERGENCY <sup>4</sup>		FINISH	FIXTURE OPTIONS
0 - None _PL - Bodine 10W Integral _IL - Iota 10W Integral _E - Emergency Section _N - Night Light Section _L - Life Safety Section _G - Bodine GTD Battery and Emergency pg. 3	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 3	AM - Antimicrobial Paint Fixture Options pg. 4	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

<sup>1</sup>Individual fixtures come in 2', 4', 6' & 8' lengths. Continuous row come in 2' increments. <sup>2</sup>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. <sup>3</sup>While we do offer dimmable driver options, please note that dimming is not recommended with Indigo-Clean fixtures as it can reduce the efficiency of disinfection. <sup>4</sup>Enter quantity for Battery and Emergency, Example 2P.

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.



Source

- 80 CRI = R9≥19

Indigo Clean LED

	Color	Watt <i>per foot</i>	Shielding <b>HE</b> High Efficiency	
			<i>Lumens/ft</i>	<i>LPW</i>
<b>IC37</b>	3700K	10.8	1174	108.7
<b>IC43</b>	4300K	10.8	1191	110.3

Length

- Individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, add 3/16" (4.7mm) for each end plate or 3/8" (9.5mm) to the overall length of the row
- Individual fixtures come in 2', 4', 6' & 8' lengths. Continuous rows come in 2' increments

2	4	6	8	-
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run <i>Continuous runs available in 2' increments.</i>
23" (584.2mm)				
	47" (1193.8mm)			
		71" (1803.4mm)		
			95" (2413mm)	

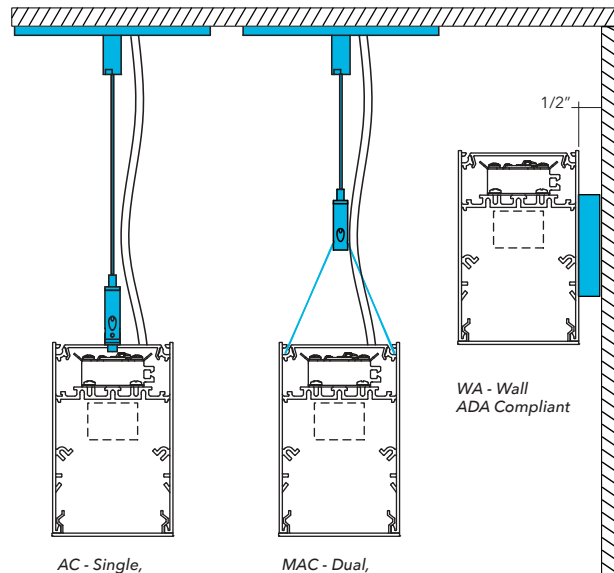
Specify in 2' increments >>>

Mounting

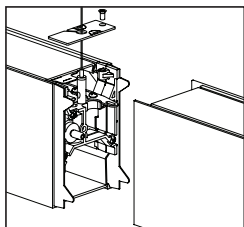
- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable, specify 48", 120", 240", or 350"
- End plates and standard white power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Maximum recommended movable mounting locations are 12" from end of 4' fixture and 18" from end of 8' fixture
- 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 20 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>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



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.



## Voltage

- Some EX3I configurations will not accommodate all voltage options; consult with factory

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt

## Driver

- Standard Driver Option = OL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX3I configurations will not accommodate all driver options; consult with factory

<b>OL1</b>	Osram Optotronic 10%, 0-10v
<b>ND</b>	Non-Dimming

## How to specify Circuiting, Battery and Emergency

1

- Select fixture circuiting from options below
- Some EX3I 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 EX3I 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 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>_PL</b>	Philips Bodine 10w Integral
<b>_IL</b>	Iota 10w Integral

## 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>	Philips Bodine GTD, Generator Transfer Device section

### 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

### 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

**AM** Antimicrobial Paint

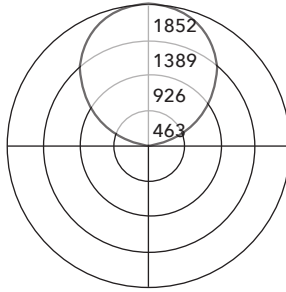
## Controls

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

## Photometrics

### Open

Test # ITL93374  
 Catalog # EX31-HE-IC43-4  
 Lumens 4766  
 Watts 43.3  
 Efficacy 110



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	23	45.0	68	90.0
90	0	0	0	0	0
95	73	74	74	73	72
100	165	169	171	171	169
105	283	283	285	283	284
110	409	409	413	410	408
115	546	543	543	543	544
120	687	679	682	680	680
125	830	819	822	819	819
130	975	959	964	959	957
135	1114	1099	1104	1097	1097
140	1256	1236	1242	1233	1233
145	1385	1365	1372	1364	1360
150	1507	1484	1491	1483	1482
155	1609	1588	1600	1589	1587
160	1697	1680	1687	1681	1680
165	1764	1753	1758	1754	1752
170	1813	1809	1809	1808	1806
175	1841	1841	1841	1840	1840
180	1852	1852	1852	1852	1852

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 die-formed white painted reflector.

**Shielding:** Diffuse snap in lens or over optic. High Efficiency (HE) & Ascent (HEA) are snap in options. Batwing (BW) & Asymmetric (WHE) are over optics.

**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.

**Indigo Clean LED:** Spectrum focused lighting for continuous environmental disinfection. 25°C test environment. Lumen output/wattage has a margin of +/- 5%. 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. L70 = 80,000 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).

**Voltage:** Universal (U), 120 volt (1), 277 volt (2). Some EX configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Osram Optron Non-dimming = ND. 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 120°F/49°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) or Night Light circuit (N). 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, graphite, textured black or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

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

**Labels:** UL and cUL Listed. Approved for dry/damp location unless otherwise noted.

**Fixture Weight:** Maximum fixture weight is 20 lbs for a standard 4' fixture.

**Buy American Act Compliant**

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