

# EDGE EX2D

## 2" Suspended Direct 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 #: EX2D-HE-N-IC37-26'-AC48G1-U-ND-1-0-W

**EX2D** - **-N** - SOURCE - LENGTH - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS

DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE	LENGTH <sup>1</sup>
HE - High Efficiency	N - None	IC37 - Indigo Clean LED, 3700K IC43 - Indigo Clean LED, 4300K Source pg. 2	-- - Individual Fixture -- - Continuous Row Source pg. 2
MOUNTING <sup>2</sup>	VOLTAGE	DRIVER <sup>3</sup>	CIRCUITING
_AC_ _G_ - (M)AC to Grid _AC_ _JB_ - (M)AC to J Box _AC_ _ST_ - (M)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 S - Surface Mount Source pg. 2	U - Universal (120 thru 277V) 1 - 120V 2 - 277V Source pg. 3	OL1 - Osram (10%, 0-10v) ND - Non-Dimming Source pg. 3	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Source pg. 3
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS	
0 - None _PLL - Bodine 10W _ILL - Iota 10W _E - Emergency Section _N - Night Light Section _L - Life Safety Section _G - Bodine GTD Source pg. 3	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Source pg. 3	AM - Antimicrobial Paint Source pg. 4	

<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 2PL.

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	11.4	1084	95.1
<b>IC43</b>	4300K	11.4	1109	97.3

**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
- 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
23" (584.2mm)	47" (1193.8mm)	71" (1803.4mm)	95" (2413mm)	Continuous runs available in 2' increments.

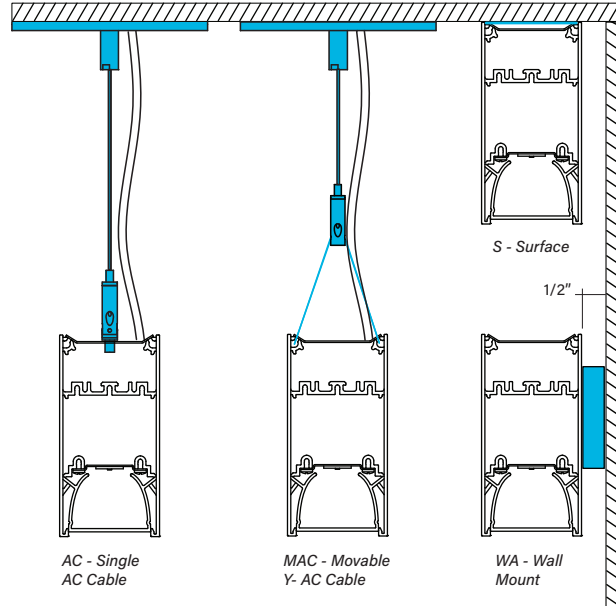
Specify in 2' increments >>>

**Mounting**

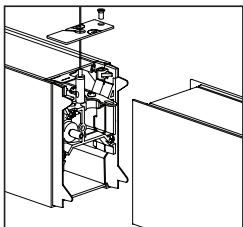
- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Maximum recommended movable mounting locations are 12" from end of 4'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

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## 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

## 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 EX2D 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 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>_PLL</b>	Philips Bodine 10w Integral Lithium Self Testing <i>CEC Listed</i>
<b>_ILL</b>	Iota 10w Integral Self Testing

### 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>_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

### 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>

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## Fixture Options

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

**AM** Antimicrobial Paint

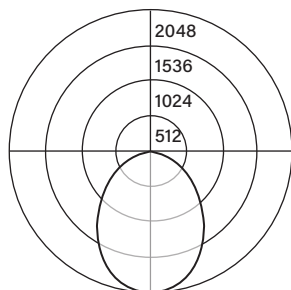
## Controls

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

## Photometrics

### Satine Lens

Test # ITL93371  
 Catalog # EX2D-HE-IC43-4  
 Lumens 4439 lm  
 Watts 45.4 W  
 Efficacy 97.7 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2048	2048	2048	2048	2048
5	2036	2036	2034	2031	2028
10	2000	1993	1983	1971	1965
15	1940	1919	1904	1874	1861
20	1857	1821	1789	1746	1727
25	1749	1702	1653	1592	1565
30	1618	1565	1499	1422	1393
35	1471	1414	1337	1247	1209
40	1315	1258	1168	1071	1035
45	1153	1098	1002	907	877
50	988	938	841	757	727
55	827	782	692	620	595
60	672	632	555	493	473
65	525	490	427	379	365
70	386	360	309	275	263
75	257	238	206	183	177
80	147	136	115	105	101
85	59	53	47	43	43
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23626	20532	17971
55	20891	17481	15031
65	18000	14640	12514
75	14388	11532	9909
85	9809	7814	7149

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.

**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) and 347 volt (3) options available. Must specify OL3 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 Osram Optronic 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), 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:** Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

**Labels:** ETL listed conforming to UL 1598 and CSA 250. 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.