

# EDGE EX4D

## 4" Suspended Direct Linear

### Key Features

- Boards and driver are specifically for Indigo Clean®
- Indigo Clean® is safe and effective at killing SARS-CoV-2, Influenza-A, Staph Aureus and a list of pathogens that negatively impact health
- 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 #: EX4D-HE-N-IC37-26'-AC48G1-U-ND-1-0-W



HE	N	SOURCE	LENGTH <sup>1</sup>
<b>HE</b> - High Efficiency	<b>N</b> - None	<b>IC32</b> - Indigo Clean LED, 3200K <b>IC37</b> - Indigo Clean LED, 3700K <b>IC43</b> - Indigo Clean LED, 4300K <i>Source pg. 2</i>	--- - Individual Fixture --- - Continuous Row <i>Length pg. 2</i>
MOUNTING <sup>2</sup>	VOLTAGE	DRIVER <sup>3</sup>	CIRCUITING
<b>_AC_ _G_</b> - (M)AC to Grid <b>_AC_ _JB</b> - (M)AC to J Box <b>_AC_ _ST</b> - (M)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>WA</b> - Wall Mount <b>S</b> - Surface Mount <i>Mounting pg. 2</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <i>Voltage pg. 3</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED Optotronic (10%, 0-10v) <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <b>M</b> - Multi Circuit <b>E</b> - Emergency ( <i>entire fixture</i> ) <b>N</b> - Night Light ( <i>entire fixture</i> ) <i>Circuiting pg. 3</i>
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS	CONTROLS
<b>0</b> - None <b>_P</b> - Bodine 10W <b>_IC</b> - Iota 10W Integral (CEC Listed) <b>_E</b> - Emergency Section <b>_N</b> - Night Light Section <b>_L</b> - Life Safety Section <b>_G</b> - Philips Bodine GTD <i>Battery and Emergency pg. 3</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. 3</i>	<b>AM</b> - Antimicrobial Paint <i>Fixture Options pg. 4</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', 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>IC32</b>	3200K	12.9	1270	98.4
<b>IC37</b>	3700K	12.9	1303	101
<b>IC43</b>	4300K	12.9	1333	103.3

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

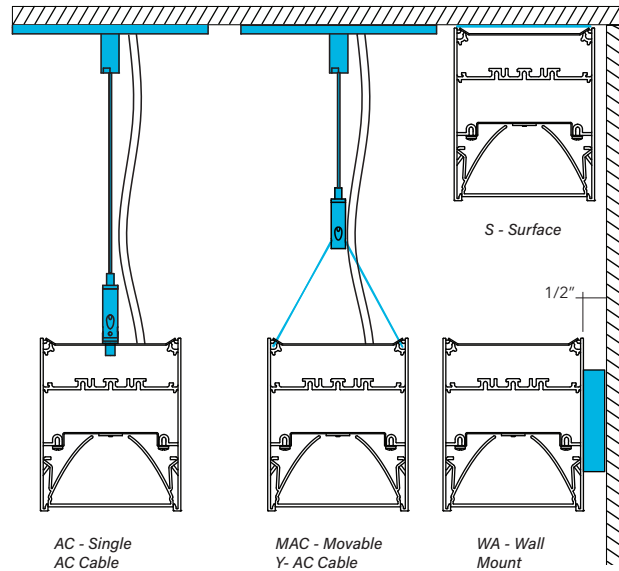
2	4	6	8	-
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run <i>Continuous runs available in 2' increments.</i>
23" (584.2mm)	47" (1193.8mm)	71" (1803.4mm)	95" (2413mm)	
Specify in 2' increments >>>				

Mounting

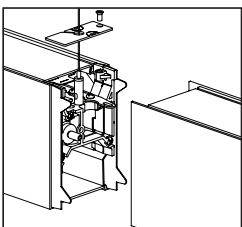
- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Maximum recommended movable mounting locations are 12" from end of 4' 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
<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 EX4D 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 = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EX4D configurations will not accommodate all driver options; consult with factory

0-10V Drivers	
<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v

## How to Specify Circuiting, Battery and Emergency

1

- Select fixture circuiting from options below
- Some EX4D 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 EX4D 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>_IC</b>	Iota 10w Integral
<b>_P</b>	Bodine 10w Integral

#### For Approximate Battery Lumen Output

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

### 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 <i>(NIGHT ONLY full housing not sections)</i>
<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: 1-1PL
- 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

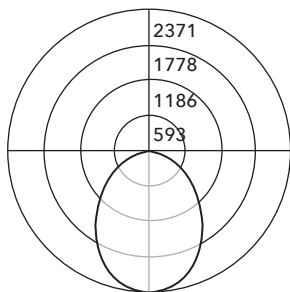
## Controls

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

## Photometrics

### Satine Lens

Test # ITL93368  
 Catalog # EX4D-HE-IC43-4  
 Lumens 5334 lm  
 Watts 51.4 W  
 Efficacy 103.7 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2371	2371	2371	2371	2371
5	2357	2357	2355	2352	2352
10	2316	2307	2306	2298	2292
15	2248	2227	2223	2209	2197
20	2152	2119	2111	2082	2067
25	2026	1987	1969	1922	1897
30	1878	1836	1799	1739	1710
35	1711	1668	1613	1538	1505
40	1530	1486	1421	1332	1298
45	1341	1297	1219	1133	1093
50	1151	1110	1028	944	911
55	964	927	847	770	740
60	785	749	677	613	588
65	614	585	525	472	454
70	451	430	384	345	331
75	308	290	259	233	227
80	180	170	152	137	134
85	78	72	64	58	57
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15457	14050	12598
55	13698	12036	10515
65	11841	10125	8755
75	9699	8156	7148
85	7294	5985	5330

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 and volt (2). 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 127°F/53°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 UL1598 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.