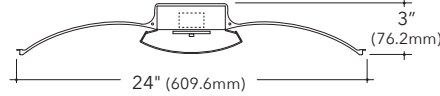




# ADEO AD24

## 2x4 Architectural Recessed



### 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 #: AD24-A-IC37-G1-U-ND-1-0-W



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SHIELDING	OUTPUT	MOUNTING	VOLTAGE
<b>A</b> - Satine Lens	<b>IC37</b> - Indigo Clean LED, 3700K <b>IC43</b> - Indigo Clean LED, 4300K <i>Lumen Output pg. 2</i>	<b>G1</b> - 15/16" Grid <b>G9</b> - 9/16" Grid <b>GS</b> - Screw Slot Grid <b>FL</b> - Flanged <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>
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DRIVER <sup>1</sup>	CIRCUITING	BATTERY & EMERGENCY	FINISH
<b>OL1</b> - Osram (10%, 0-10v) <b>ND</b> - Non-Dimming <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <b>E</b> - Emergency ( <i>entire fixture</i> ) <b>N</b> - Night Light ( <i>entire fixture</i> ) <i>Circuiting pg. 3</i>	<b>0</b> - None <b>1P</b> - Bodine 10W <b>1I</b> - Iota 10W <b>1IC</b> - Iota 10W, CEC Listed <b>1G</b> - Bodine GTD <i>Battery &amp; Emergency pg. 3</i>	<b>W</b> - White <i>Finish pg. 3</i>
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FIXTURE OPTIONS <sup>2</sup>	CONTROLS		
<b>TW</b> - Through-wiring <b>CP</b> - Chicago Plenum <b>AM</b> - Antimicrobial Paint <b>AR</b> - Air Return <b>FW6</b> - 6' Flex Whip <b>GMF</b> - Slow Blow Fusing <i>Fixture Options pg. 3</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>		

<sup>1</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>2</sup> Flex Whip (FW6) option not available with Chicago Plenum (CP) option.

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.



## Output

- 80 CRI R9 ≥ 23

## Indigo Clean LED

	Color	Watts	Shielding A	
			Satine Lens Lumens	LPW
IC37	3700K	60.2	5549	92.2
IC43	4300K	60.2	5631	93.5

## Mounting

- Designed to install into acoustical grid and inaccessible ceilings
- Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Maximum fixture weight is 28 lbs - Surface Mount Box adds 10 lbs
- Refer to installation instructions during installation at the job site
- Approved for dry/damp location unless otherwise noted

G1	G9	GS	FL	S
<p><b>1" Grid Mount</b> Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.</p>	<p><b>9/16" Grid Mount</b> Works with 9/16" grid ceiling type. For tegular tile installations, fixture position will not be flush to the bottom of the tile. See tegular tile profile image below.</p>	<p><b>Screw Slot Mounting</b> Works with screw slot, bolt slot and 9/16" grid ceiling types. For 9/16" installations with tegular tile, fixture position will be flush to the bottom of the tile. See bottom profile image of 9/16" with tegular tile. Consult factory for detailed installation instructions.</p>	<p><b>Flange Kit</b> A separate flange kit is supplied for installations into inaccessible or drywall applications. Flange kit ships from factory uninstalled separately from fixture. Consult factory for detailed installation instructions.</p>	<p><b>Surface Mount</b> Utilize for hard lid ceiling applications. The 20 gauge steel frame easily secures to ceiling.</p>
<p>Standard Tile</p>	<p>Standard Tile</p>	<p>Tegular Tile</p>		<p>3-1/8" (80.3mm)</p>
<p>Tegular Tile</p>	<p>Tegular Tile</p>	<p>Tegular Tile</p>		



## Voltage

- Some ADEO 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

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

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

## Circuiting

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

<b>1</b>	Single Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

<b>0</b>	No Battery
<b>1P</b>	Philips Bodine 10w Integral, CEC Listed
<b>1I</b>	Iota 10w Integral
<b>1IC</b>	Iota 10w Integral, CEC Listed
<b>1G</b>	Philips Bodine GTD

**For Approximate Battery Lumen Output**

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 92.3 (LPW) = 923 battery lumen output

**Battery & Emergency Ordering Examples**

- Single circuit, 10w integral battery      Ordering Code: 1-1P
- Emergency circuit only, 10w integral battery      Ordering Code: E-1P

## Finish

- Powder-coat white painted finish on exposed trim

<b>W</b>	White
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## Fixture Options

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

<b>TW</b>	Through-Wiring
<b>CP</b>	Chicago Plenum
<b>AM</b>	Antimicrobial Paint
<b>AR</b>	Air Return
<b>FW6</b>	Flex Whip 6'
<b>GMF</b>	Internal Slow Blow Fuse

## Controls

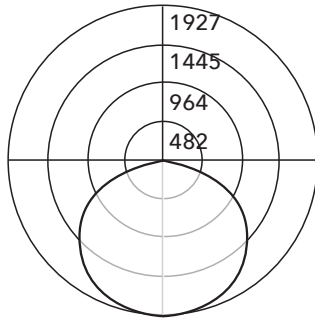
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.



## Photometrics

### Satine Lens

Test #: ITL93380  
Part #: AD24A-IC43  
Total Lumens: 5631 lm  
Total Watts: 60.2 W  
Efficacy: 93.5 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1927	1927	1927	1927	1927
5	1917	1916	1918	1918	1917
10	1890	1886	1893	1894	1892
15	1846	1836	1850	1853	1852
20	1780	1768	1789	1795	1794
25	1695	1687	1712	1720	1722
30	1597	1591	1619	1633	1636
35	1485	1483	1516	1533	1539
40	1362	1366	1400	1421	1427
45	1227	1236	1278	1303	1312
50	1090	1102	1144	1173	1183
55	943	960	1007	1040	1053
60	794	816	864	901	915
65	639	669	720	763	778
70	488	520	576	623	641
75	334	373	438	490	510
80	201	240	302	341	354
85	88	118	151	175	187
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2472	2575	2644
55	2342	2501	2616
65	2154	2427	2623
75	1839	2411	2808
85	1439	2468	3057

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:** Formed 20 gauge cold rolled steel housing. Highly reflective die-formed white painted reflector. Wiring access available on top of housing. Captive and hinged center lens swings open for room-side maintenance of lens, driver and LED boards.

**Shielding:** Co-extruded acrylic lens with ribbed side channels evenly illuminates the side reflector giving the appearance of a fully luminous aperture. Available with standard satine lens or optional clear lens with linear slot or round perf insert.

**Mounting:** Designed to install into acoustical grid and inaccessible ceilings. Specify G1, G9 or GS for acoustical grid ceiling. Specify FL for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with retention wires. Maximum fixture weight is 28 lbs - Surface Mount box adds 10 lbs

**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).

**Output:** One lumen package available. 80 CRI is available for 3700K and 4300K. 80 CRI = R9≥23.

**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 ADEO configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Osram 0-10V, 10% = OL1. 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 102°F/39°C. For more driver options, see Pinnacle Resource Guide. Some ADEO configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some ADEO 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 integral to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish:** Powder-coat white painted finish on exposed trim.

**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:** 28 lbs maximum - Surface mount box adds 10 lbs.

**Buy American Act Compliant**

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