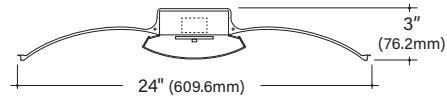




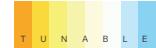
# ADEO AD22

## 2x2 Architectural Recessed



### Key Features

- Formed 22 gauge cold rolled steel housing
- Highly reflective die-formed white painted reflector
- Wiring access available on top of housing
- LED offered with a 5-year limited warranty. Covers LED, driver and fixture
- UL and cUL Listed, LO, MO, and HO lumen packages are IC Rated
- Approved for dry/damp location unless otherwise noted
- Room-Side Maintenance for LED system



QUICKSHIP

Example Part #: AD22-A-830HO-G1-U-FSD-1-0-W

### AD22

SHIELDING CRI, CCT & OUTPUT MOUNTING VOLTAGE DRIVER CIRCUITING BATTERY & EMERGENCY FINISH FIXTURE OPTIONS CONTROLS

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<b>SHIELDING</b>	<b>SOURCE QS<sup>1,2</sup></b>		<b>MOUNTING</b>	<b>VOLTAGE<sup>3</sup></b>
<b>A</b> - Satine Lens QS <sub>1</sub> <b>R</b> - Round Perf <b>L</b> - Linear Perf Shielding pg. 2	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>TW</b> - 2CH Tunable White (2700-6500K, 90CRI) <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <b>MOD</b> - Mod options available Lumen Output pg. 2-3	<b>G1</b> - 15/16" Grid QS <sub>1</sub> <b>G9</b> - 9/16" Grid QS <sub>1</sub> <b>GS</b> - Screw Slot Grid QS <sub>1</sub> <b>FL</b> - Flanged <b>S</b> - Surface Mount Mounting pg. 3	<b>U</b> - Universal (120 thru 277V) QS <sub>1</sub> <b>1</b> - 120V QS <sub>1</sub> <b>2</b> - 277V QS <sub>1</sub> <b>3</b> - 347V Voltage pg. 3	
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<b>DRIVER</b>	<b>CIRCUITING<sup>4</sup></b>	<b>BATTERY &amp; EMERGENCY</b>	<b>FINISH</b>	
<b>FSD</b> - Factory Select Driver (1%, 0-10v) QS <sub>1</sub> <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <b>OL4</b> - eldoLED Optotronic 347v (1%, 0-10v) <b>EE1</b> - eldoLED ECODrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0.1%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>MOD</b> - Mod options available Driver pg. 4	<b>1</b> - Single Circuit QS <sub>1</sub> <b>E</b> - Emergency (entire fixture) QS <sub>1</sub> <b>N</b> - Night Light (entire fixture) QS <sub>1</sub> Circuiting pg. 4	<b>0</b> - None QS <sub>1</sub> <b>FSB</b> - Factory Select Battery QS <sub>1</sub> <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>1ILL</b> - Iota 10W <b>1PLL</b> - Bodine 10W Battery and Emergency pg. 4	<b>W</b> - White QS <sub>1</sub> <b>MOD</b> - Mod options available Finish pg. 5	
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<b>Fixture Options<sup>5</sup></b>	<b>CONTROLS</b>			
<b>QS</b> - QuickShip QS <sub>1</sub> <b>TW</b> - Through-wiring <b>CP</b> - Chicago Plenum QS <sub>1</sub> <b>AM</b> - Antimicrobial Paint <b>AR</b> - Air Return <b>FW6</b> - 6' Flex Whip QS <sub>1</sub> <b>GLR</b> - Fast Blow Fusing QS <sub>1</sub> <b>DSP</b> - Customer Supplied Battery/Driver/Sensor <b>GMF</b> - Slow Blow Fusing <b>MOD</b> - Mod options available Fixture Options pg. 5	<b>MOD</b> - Mod options available Controls pg. 6			

<sup>1</sup>When specifying SOURCE the first \_ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending \_ are for specifying output, example 835HO - 80CRI, 3500K High Output. See output charts for more information. <sup>2</sup>When specifying Tunable White, use **TW** and then specify output, example TWHO - Tunable White 90CRI, High Output 2700-6500K. See output charts for more information. Tunable White option requires driver option **FSD** which provides separate 0-10v control leads for Intensity and CCT. <sup>3</sup>Tunable White (**TW**) option only available with Universal (**U**), 120V (**1**) or 277V (**2**) options. <sup>4</sup>Consult factory for Emergency (**E**) or Night Light (**N**) options with Tunable White option. <sup>5</sup>If specifying QuickShip, **QS** must be used in fixture options section of part number to qualify.

Specifications and dimensions subject to change without notice. Specification sheets that appear on [pinnacle-ltg.com](http://pinnacle-ltg.com) are the most recent version and supersede all other previously printed or electronic versions.



## Shielding

- Captive and hinged center lens
- Co-extruded acrylic lens with ribbed side channels evenly illuminates the side reflector giving the appearance of a fully lensed luminaire
- Highly reflective die-formed white painted reflector
- Wiring access available on top of housing

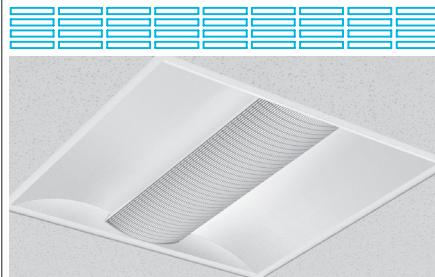
### Ordering Code

**A**

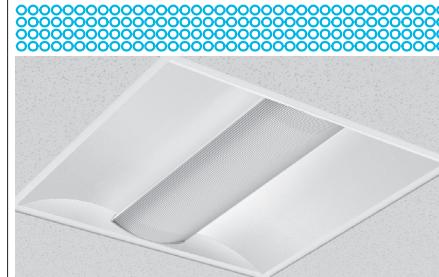
Satine Lens

**L**

Linear Slot

**R**

Round Perf



## Output

- Specify either 80 or 90 CRI for White light LED
- Longer lead-time may apply for 90 CRI or Tunable White option. Consult factory
- Tunable White option requires driver option FSD which provides separate 0-10v control leads for Intensity and CCT.
- Tunable White lumen packages shown at 4000K CCT setpoint
- 90 CRI = R9≥50

### Custom Output- Lumens OR Wattage

<b>CL_____</b>	Specify CRI, CCT and desired lumens (i.e. CL8351200)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW_____</b>	Specify CRI, CCT and desired wattage (i.e. CW94015)	Specify watts between standard offering listed below
<b>CLTW_____</b>	Specify desired lumens for Tunable White (i.e. CLTW3200)	Specify lumens between Tunable White offering listed below. Lumens are specified at 4000K CCT setpoint.

### 80 CRI

	Color	Output	Watts	Shielding							
				A Satine Lens		L Linear Slot		R Round Perf		Lumens	LPW
<b>830LO</b>	3000K	Low	16.8	2264	134	2152	76	1841	65		
<b>830MO</b>		Middle	28.5	3624	127	2815	74	2407	63		
<b>830HO</b>		High	38.2	4739	124	1350	80	1155	69		
<b>835LO</b>	3500K	Low	16.8	2274	135	2162	76	1849	65		
<b>835MO</b>		Middle	28.5	3639	128	2826	74	2418	63		
<b>835HO</b>		High	38.2	4759	124	1387	82	1186	70		
<b>840LO</b>	4000K	Low	16.8	2335	139	2219	78	1899	67		
<b>840MO</b>		Middle	28.5	3737	131	2902	76	2482	65		
<b>840HO</b>		High	38.2	4886	128	1115	66	954	57		

### 90 CRI

	Color	Output	Watts	Shielding							
				A Satine Lens		L Linear Slot		R Round Perf		Lumens	LPW
<b>927LO</b>	2700K	Low	16.8	1878	111	1192	71	1020	61		
<b>927MO</b>		Middle	28.5	3005	106	1785	63	1527	54		
<b>927HO</b>		High	38.2	3930	103	2334	61	1996	52		
<b>930LO</b>	3000K	Low	16.8	1923	114	1142	68	977	58		
<b>930MO</b>		Middle	28.5	3078	108	1828	64	1564	55		
<b>930HO</b>		High	38.2	4025	105	2391	63	2045	54		
<b>935LO</b>	3500K	Low	16.8	2007	119	1192	71	1020	61		
<b>935MO</b>		Middle	28.5	3213	113	1908	67	1632	57		
<b>935HO</b>		High	38.2	4201	110	2495	65	2134	56		
<b>940LO</b>	4000K	Low	16.8	2060	122	1224	73	1047	62		
<b>940MO</b>		Middle	28.5	3298	116	1959	69	1676	59		
<b>940HO</b>		High	38.2	4312	113	2561	67	2191	57		

### 2 CH Tunable White (2700-6500K, 90CRI)

	Color	Output	Watts	Shielding							
				A Satine Lens		L Linear Slot		R Round Perf		Lumens	LPW
<b>TWLO</b>	2700 - 6500K	Low	24.1	2300	95.3	1391	57.6	1189	49.3		
<b>TWMO</b>		Middle	41.8	3600	86.2	2177	52.1	1862	44.6		
<b>TWHO</b>		High	45.2	4600	101.7	2781	61.5	2379	52.6		

Specifications and dimensions subject to change without notice. Specification sheets that appear on [pinnacle-ltg.com](http://pinnacle-ltg.com) are the most recent version and supersede all other previously printed or electronic versions.

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AD22\_LED\_SPEC\_JANUARY2026



## Direct Source: MOD Options

- Specify **MOD** in the part number for any of the below options
- All RGB\_Source Options will require specific driver and control

- Consult factory for **MOD** specification details, pricing, and lead-time information

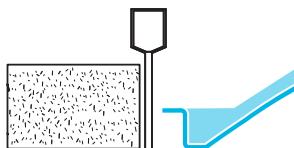
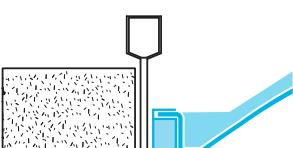
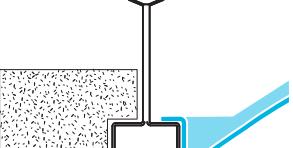
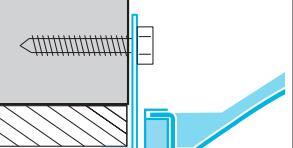
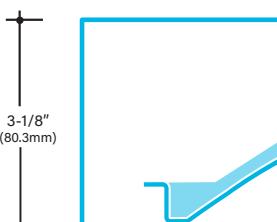
<b>MOD</b>	Color Changing RGB LED
	Color Changing RGB-W LED

Required Driver	Required Control
EC1	DMX
EC1	DMX

## 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 15 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

<b>G1</b>	<b>G9</b>	<b>GS</b>	<b>FL</b>	<b>S</b>
1" Grid Mount <i>Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.</i>	9/16" Grid Mount <i>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.</i>	Screw Slot Mounting <i>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.</i>	Flange Kit <i>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.</i>	Surface Mount <i>Utilize for hard lid ceiling applications. The 20 gauge steel frame easily secures to ceiling.</i>
 Standard Tile	 Standard Tile	 Tegular Tile	 Tegular Tile	 3-1/8" (80.3mm)

## Voltage

- Some ADEO configurations will not accommodate all voltage options; consult with factory
- 347 volt not available with Tunable White (TW) option

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt



## Driver

- Standard Driver Option = PL2
- 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

### 0-10V Drivers

<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECODrive 1%, 0-10v, Logarithmic
<b>EE2</b>	eldoLED ECODrive 1%, 0-10v, Linear
<b>ES1</b>	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0.1%, 0-10v, Linear
<b>OL5</b>	eldoLED Optotronic 1%, 0-10v, AUX , Dim to Off
<b>PL5</b>	Advance Xitanium 1%, 0-10v, AUX, Dim to Off

### DALI Drivers

<b>EE3</b>	eldoLED ECODrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link
<b>PR1</b>	Advance Xitanium SR, DALI 2, Self powered link

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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### Alternate Drivers

<b>PS1</b>	Advance Xitanium Step Dimming 50%/100%
<b>EH1</b>	ERP 1%, Line Voltage and ELV, requires 120v

## Drivers: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

**MOD** Power Over Ethernet

## Circuiting

- Select fixture circuiting from options below
- Some ADEO configurations will not accommodate all circuiting options; consult with factory
- Consult factory for Emergency (E) or Night Light (N) circuit with Tunable White (TW)

<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
- For Tunable White (TW) option, battery with illuminate 6500K LED unless otherwise specified.
- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide
- Consult factory for Emergency Control Devices with Tunable White (TW) option

<b>0</b>	No Battery
<b>FSB</b>	Factory Select Battery (10w option)
<b>FSBST</b>	Factory Select Battery (10w, Self Testing)
<b>FSG</b>	Factory Select ALCR Emergency Control Device, UNV
<b>GI</b>	Iota ETS-DR, Emergency Control Device, UNV
<b>GB</b>	Bodine GTD, Generator Transfer Device, 120v or 277v
<b>1ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>1PLL</b>	Bodine 10w Integral Lithium, Self Testing

### Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery
- Emergency circuit only, 10w integral battery

Ordering Code: 1-1FSB

Ordering Code: E-1FSB

### 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

**Finish**

- Powder-coat white painted finish on exposed trim

**W** White

**Finish: MOD Options**

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>	Wood Grain
	Metallic Silver
	Textured Black
	Bronze
	Graphite
	Custom Color
	Natural

**Fixture Options**

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

<b>QS</b>	Quick Ship
<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>GLR</b>	Internal Fast Blow Fuse
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>GMF</b>	Internal Slow Blow Fuse

**Fixture Options: MOD Options**

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>	Remote Driver
	End Power Feed

**Quick Ship**

	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	Options							
<b>10-Day</b>															
<b>A</b>	80 CRI, All color temperatures, all lumen packages See pg 4&5	<b>G1</b> <b>G9</b> <b>GS</b>	1" Grid 9/16" Grid Screw Slot	<b>U</b> <b>1</b> <b>2</b>	Universal 120V 277V	<b>FSD</b>	Factory Select Driver (1%, 0-10v)	<b>1</b> <b>E</b> <b>N</b>	Single Emergency Night Light	<b>0</b> <b>FSB</b>	None Factory Select Battery	<b>W</b>	White	<b>CP</b> <b>FW6</b> <b>GLR</b>	Chicago Plenum Flex Whip 6' 18-gauge Internal Fast- Blow Fuse

Consult Factory for projects that are larger than 200 units.



## Controls

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

## Controls: MOD Options

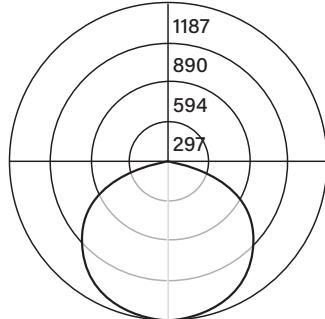
- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Wattstopper PLUS SensiLUM	Ordering Code	Required Driver
	Lutron Athena Sensor	SNSLM	OD1, OL5
	Lutron Athena Connected	AWNS	OD1, PR1, OL5, PL5

## Photometrics

### Satine Lens

Test #	ITL88941
Catalog #	AD22A-840MO
Lumens	3635 lm
Watts	30.9 W
Efficacy	118 LPW



### Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	1187	1187	1187	1187	1187	
5	1183	1184	1184	1184	1185	
10	1170	1170	1169	1170	1171	
15	1146	1144	1145	1149	1150	
20	1109	1108	1111	1117	1118	
25	1061	1062	1068	1076	1079	
30	1006	1007	1016	1027	1031	
35	941	945	956	971	975	
40	868	874	890	908	914	
45	791	798	817	837	844	
50	706	716	740	762	770	
55	618	630	656	681	689	
60	525	540	567	597	606	
65	429	447	479	509	522	
70	332	351	385	422	434	
75	234	257	296	334	351	
80	144	165	206	237	245	
85	65	80	101	118	125	
90	0	0	0	0	0	

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3266	3373	3485
55	3146	3339	3507
65	2964	3309	3606
75	2639	3339	3959
85	2177	3383	4187

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 or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions

## Applications & Certificates

**Construction:** Formed 22 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 satin 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.

**White LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%. 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 = 107,300 hours and L90 = 32,000 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).

**Tunable White LED:** 2 channel solution with 2700K and 6500K LED, 90CRI only, R9 >50. Lumen packages available shown at 4000K CCT setpoint, lumen output varies based on CCT. Use multipliers for other CCT; 2700K = .91 3000K = .93 3500K = .97 4000K = 1.0 5000K = 1.044 6500K = 1.078.

**CRI, CCT & Output:** Three lumen packages available. Low (LO), Medium (MO) and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on Color Temperature & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 90 CRI = R9 ≥ 50.

**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 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 91°F/33°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 1598 listed. LO, MO, and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

**Fixture Weight:** 15 lbs maximum - Surface Mount box adds 10 lbs

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