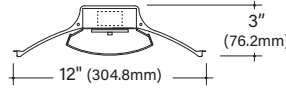


ADEO AD14

1x4 Architectural Recessed



Key Features

- Formed 20 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
- Maximum fixture weight is 15 lbs - Surface Mount box adds 10 lbs
- Room-Side Maintenance for LED system
- Indigo-Clean available, see Indigo-Clean specification sheets for details.



Example Part #: AD14-A-830HO-G1-U-FSD-1-0-W

AD14 - SHIELDING - CRI, CCT & OUTPUT - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

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

¹When specifying SOURCE the first _ is for specifying either 8 - 80CRI, 9 - 90CRI. The ending __ are for specifying output, example HO - High Output. . See output charts for more information. ²If specifying QS, QS must be used in fixture options section of part number to qualify.


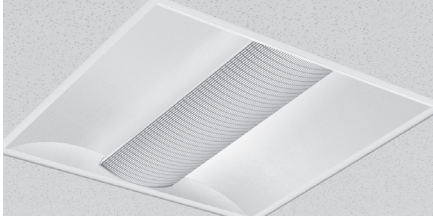
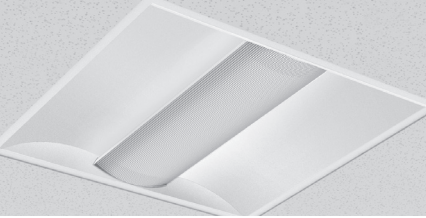
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



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	L	R
Satine Lens	Linear Slot	Round Perf
		

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output- Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL8351200)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW94015)	Specify watts between standard offering listed below

80 CRI

	Color	Output	Watts	Shielding					
				A		L		R	
				Satine Lens		Linear Slot		Round Perf	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
830LO	3000K	Low	18	2061	114.5	1224	68.0	1047	58.2
830MO	3000K	Middle	26	3075	118.3	1826	70.2	1562	60.1
830HO	3000K	High	36.4	4244	116.6	2521	69.3	2156	59.2
835LO	3500K	Low	18	2118	117.7	1258	69.9	1076	59.8
835MO	3500K	Middle	26	3160	121.5	1877	72.2	1605	61.7
835HO	3500K	High	36.4	4362	119.8	2591	71.2	2216	60.9
840LO	4000K	Low	18	2232	124.0	1326	73.7	1134	63.0
840MO	4000K	Middle	26	3331	128.1	1979	76.1	1692	65.1
840HO	4000K	High	36.4	4614	126.8	2741	75.3	2344	64.4

90 CRI

927LO	2700K	Low	18	1718	95.4	1020	56.7	873	48.5
927MO	2700K	Middle	26	2563	98.6	1522	58.5	1302	50.1
927HO	2700K	High	36.4	3538	97.2	2101	57.7	1797	49.4
930LO	3000K	Low	18	1899	105.5	1128	62.7	965	53.6
930MO	3000K	Middle	26	2832	108.9	1682	64.7	1439	55.3
930HO	3000K	High	36.4	3909	107.4	2322	63.8	1986	54.6
935LO	3500K	Low	18	1905	105.8	1132	62.9	968	53.8
935MO	3500K	Middle	26	2841	109.3	1688	64.9	1443	55.5
935HO	3500K	High	36.4	3922	107.7	2330	64.0	1992	54.7
940LO	4000K	Low	18	1991	110.6	1183	65.7	1011	56.2
940MO	4000K	Middle	26	2972	114.3	1765	67.9	1510	58.1
940HO	4000K	High	36.4	4116	113.1	2445	67.2	2091	57.4



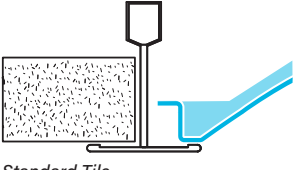
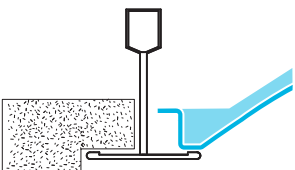
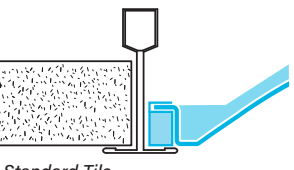
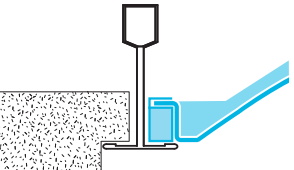
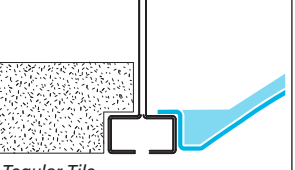
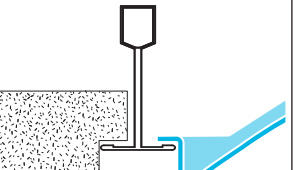
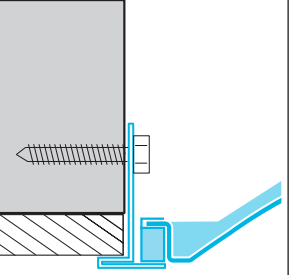
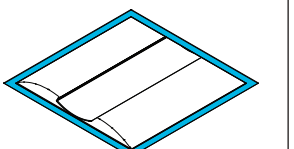
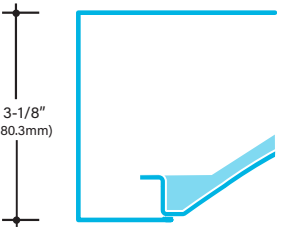
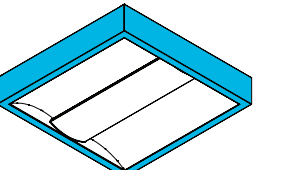
Direct Source: MOD Options

- 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

MOD		RQD Driver	RQD Control
	Color Changing RGB LED	EC1/EC4	DMX
	Color Changing RGB-W LED	EC1/EC4	DMX
	2 Channel Tunable White		
	Dynamic BIOS		

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

G1	G9	GS	FL	S
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>
 <p>Standard Tile</p>  <p>Tegular Tile</p>	 <p>Standard Tile</p>  <p>Tegular Tile</p>	 <p>Tegular Tile</p>  <p>Tegular Tile</p>	 	 <p>3-1/8" (80.3mm)</p> 

Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 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 ADEO configurations will not accommodate all driver options; consult with factory

0-10V Drivers	
FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v (requires 347v)
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
OL5	eldoLED Optotronic 1%, 0-10v, AUX
PL5	Advance Xitanium 1%, 0-10v, AUX
DALI Drivers	
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL
OD2	eldoLED Optotronic 1%, DALI 2 Channel
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Drivers	
PS1	Signify Advance Xitanium Step Dimming 50%/100%
PR1	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
OD1	eldoLED Optotronic 1%, DEXAL
EH1	ELV 120v only, 0-10v universal

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

1	Single Circuit
E	Emergency Circuit only
N	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

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

Battery & Emergency Ordering Examples

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

MOD	Wood Grain
	Metallic Silver
	Textured Black
	Bronze
	Graphite
	Custom Color
	Natural

Fixture Options

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

QS	Quick Ship
TW	Through-Wiring
CP	Chicago Plenum
AM	Antimicrobial Paint
AR	Air Return
FW6	Flex Whip 6'
GLR	Internal Fast Blow Fuse
DSP	Customer Supplied Battery/Driver/Sensor
GMF	Internal Slow Blow Fuse
BA	Buy American Act Compliant

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

MOD	Remote Driver
	End Power Feed



Quick Ship

	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	Options
10-Day								
A	80 CRI, All color temperatures, all lumen packages <i>See pg 4&5</i>	G1 1" Grid G9 9/16" Grid GS Screw Slot	U Universal 1 120V 2 277V	FSD Factory Select Driver (7%, 0-10v)	1 Single E Emergency N Night Light	0 None FSB Factory Select Battery	W White	CP Chicago Plenum FW6 Flex Whip 6' GLR 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

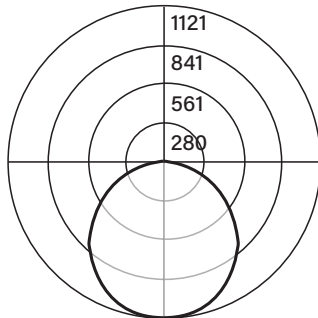
- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Required Driver	
	Encelium Sensilum	OD1, OL5
	Enlighted (Wireless) - ENLI	Any 0-10v
	Enlighted (Wireless) - ENLC	Any 0-10v

Photometrics

Satine Lens

Test #	ITL88948
Catalog #	AD14A-840MO
Lumens	3331 lm
Watts	26 W
Efficacy	128 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1121	1121	1121	1121	1121
5	1115	1116	1116	1117	1117
10	1100	1099	1103	1104	1103
15	1074	1071	1080	1084	1082
20	1039	1034	1047	1053	1053
25	993	988	1006	1014	1015
30	938	936	956	967	968
35	876	876	898	912	916
40	806	810	835	851	855
45	731	739	765	781	787
50	651	663	690	707	715
55	567	581	609	628	637
60	480	497	525	545	555
65	390	409	438	458	466
70	299	320	347	364	373
75	210	231	252	264	265
80	125	143	156	169	173
85	55	63	75	85	85
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3062	3204	3296
55	2928	3145	3289
65	2733	3069	3266
75	2403	2884	3032
85	1869	2549	2888



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 15 lbs - Surface Mount box adds 10 lbs

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 = 123,100 hours and L90 = 36,700 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.

CRI, CCT & Output: Four lumen packages available. Low (LO), Medium (MO), High (HO) and Very High (VHO). 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 OL4 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, HO and VHO 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.