PINNACLE
ARCHITECTURAL LIGHTING®

ADEO AD24
2x4 Architectural Recessed

3" (76.2mm)
24" (609.6mm)
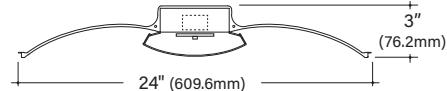
Key Features

- Formed 22 gauge cold rolled steel housing, 20 gauge available upon request
- 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
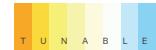
5 YEAR LED WARRANTY · DESIGNED IN DENVER CO. · TUNABLE · cULus · IC RATED · QUICKSHIP

Example Part #: AD24-A-830HO-G1-U-FSD-1-0-W

AD24	SHIELDING	CRI, CCT & OUTPUT	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS

SHIELDING	SOURCE QS [1,2]	MOUNTING	VOLTAGE [3]
A - Satine Lens QS	**_27_ _** - 2700K	**G1** - 15/16" Grid QS	**U** - Universal *(120 thru 277V)* QS
R - Round Perf	**_30_ _** - 3000K	**G9** - 9/16" Grid QS	**1** - 120V QS
L - Linear Perf	**_35_ _** - 3500K	**GS** - Screw Slot Grid QS	**2** - 277V QS
Shielding pg. 2	**_40_ _** - 4000K	**FL** - Flanged	**3** - 347V
	TW _ _ - 2CH Tunable White *(2700-6500K, 90CRI)*	**S** - Surface Mount	*Voltage pg. 3*
	CL_ _ _ _ _ _ - Custom Lumens	*Mounting pg. 3*	
	CW_ _ _ _ _ _ - Custom Watts		
	MOD - Mod options available		
	Lumen Output pg. 2-3		

DRIVER	CIRCUITING [4]	BATTERY & EMERGENCY	FINISH
FSD - Factory Select Driver *(1%, 0-10v)* QS	**1** - Single Circuit QS	**0** - None QS	**W** - White QS
PL2 - Advance Xitanium *(1%, 0-10v)*	**E** - Emergency QS	**FSB** - Factory Select Battery QS	**MOD** - Mod options available
OL2 - eldoLED Optotronic *(1%, 0-10v)*	*(entire fixture)*	**FSG** - Factory Select ALCR	*Finish pg. 5*
OL4 - eldoLED Optotronic 347v *(1%, 0-10v)*	**N** - Night Light QS	**GI** - Iota ETS DR	
EE1 - eldoLED ECOdrive *(1%, 0-10v)*	*(entire fixture)*	**GB** - Bodine GTD	
ES1 - eldoLED SOLOdrive *(0.1%, 0-10v)*	*Circuiting pg. 4*	**1ILL** - Iota 10W	
LH1 - Lutron Hi-lume *(1%, EcoSystem)*		**1PLL** - Bodine 10W	
PS1 - Advance Xitanium *(50%/100%)*		*Battery and Emergency pg. 4*	
MOD - Mod options available			
Driver pg. 4			

| FIXTURE OPTIONS [5]	CONTROLS
QS - QuickShip QS	**MOD** - Mod options available
TW - Through-wiring	*Controls pg. 6*
CP - Chicago Plenum QS	
AM - Antimicrobial Paint	
AR - Air Return	
FW6 - 6' Flex Whip QS	
GLR - Fast Blow Fusing QS	
DSP - Customer Supplied Battery/Driver/Sensor	
GMF - Slow Blow Fusing	
MOD - Mod options available	
Fixture Options pg. 5	

[1]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. [2]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. [3]Tunable White (**TW**) option only available with Universal (**U**), 120V (**1**) or 277V (**2**) options. [4]Consult factory for Emergency (**E**) or Night Light (**N**) options with Tunable White option. [5]If specifying QuickShip, **QS** must be used in fixture options 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
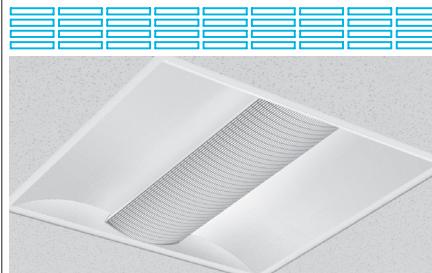
A	L	R
Satine Lens	Linear Slot	Round Perf

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

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*
CLTW_ _ _ _	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 Lumens	LPW	L Linear Slot Lumens	LPW	R Round Perf Lumens	LPW
830LO	3000K	Low	21.9	3134	143	1862	85	1592	73
830MO		Middle	29.6	4177	141	2482	84	2122	72
830HO		High	37.1	5195	140	3086	83	2639	71
830VHO		Very High	55.9	7415	133	4405	79	3767	67
835LO	3500K	Low	21.9	3147	144	1869	85	1599	73
835MO		Middle	29.6	4195	142	2492	84	2131	72
835HO		High	37.1	5217	141	3099	84	2650	71
835VHO		Very High	55.9	7446	133	4423	79	3783	68
840LO	4000K	Low	21.9	3231	148	1919	88	1642	75
840MO		Middle	29.6	4307	146	2559	86	2188	74
840HO		High	37.1	5357	144	3182	86	2721	73
840VHO		Very High	55.9	7646	137	4542	81	3885	69

90 CRI

	Color	Output	Watts	Satine Lens Lumens	LPW	Linear Slot Lumens	LPW	Round Perf Lumens	LPW
927LO	2700K	Low	21.9	2599	119	1544	70	1320	60
927MO		Middle	29.6	3464	117	2058	70	1760	59
927HO		High	37.1	4308	116	2559	69	2189	59
927VHO		Very High	55.9	6149	110	3653	65	3124	56
930LO	3000K	Low	21.9	2662	122	1581	72	1352	62
930MO		Middle	29.6	3549	120	2108	71	1803	61
930HO		High	37.1	4413	119	2621	71	2242	60
930VHO		Very High	55.9	6299	113	3742	67	3200	57
935LO	3500K	Low	21.9	2778	127	1650	75	1411	64
935MO		Middle	29.6	3703	125	2200	74	1881	64
935HO		High	37.1	4605	124	2736	74	2340	63
935VHO		Very High	55.9	6573	118	3905	70	3340	60
940LO	4000K	Low	21.9	2852	130	1694	77	1449	66
940MO		Middle	29.6	3801	128	2258	76	1931	65
940HO		High	37.1	4728	127	2808	76	2402	65
940VHO		Very High	55.9	6748	121	4009	72	3428	61

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

	Color	Output	Watts	Satine Lens Lumens	LPW	Linear Slot Lumens	LPW	Round Perf Lumens	LPW
TWLO	2700 - 6500K	Low	29.1	3100	106.6	1851	63.7	1583	54.4
TWMO		Middle	39.2	4100	104.7	2451	62.6	2096	53.5
TWHO		High	48.8	5100	104.6	3046	62.4	2605	53.4
TWVHO		Very High	82.7	7400	89.5	4422	53.5	3782	45.7

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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
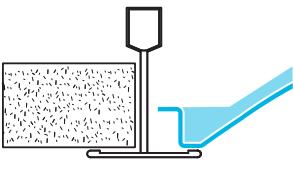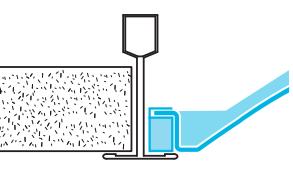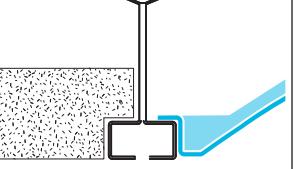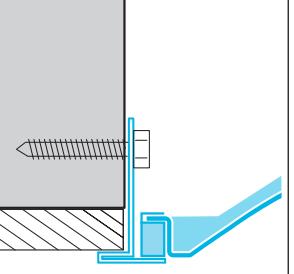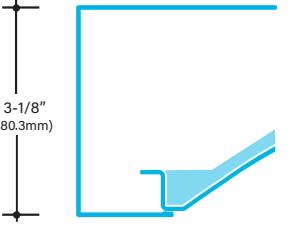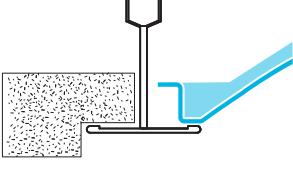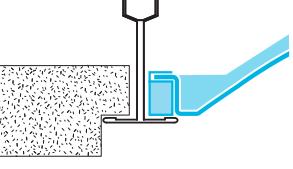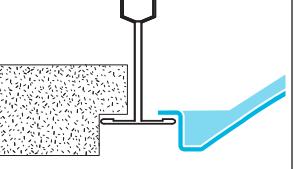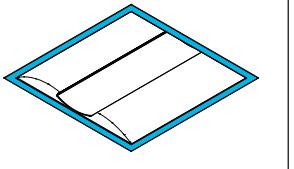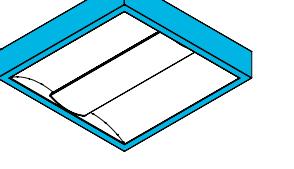
		Required Driver	Required Control
MOD	Color Changing RGB LED	EC1	DMX
	Color Changing RGB-W LED	EC1	DMX

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 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
1" Grid Mount	9/16" Grid Mount	Screw Slot Mounting	Flange Kit	Surface Mount
Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.	*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.*	*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.*	*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.*	*Utilize for hard lid ceiling applications. The 20 gauge steel frame easily secures to ceiling.*

Standard Tile — *Standard Tile* — *Tegular Tile*

3-1/8" (80.3mm)

Tegular Tile — *Tegular Tile* — *Tegular Tile*

Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt

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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 option
EE1	eldoLED ECOdrive 1%, 0-10v, Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v, Linear
ES1	eldoLED SOLOdrive 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0.1%, 0-10v, Linear
OL5	eldoLED Optotronic 1%, 0-10v, AUX , Dim to Off
PL5	Advance Xitanium 1%, 0-10v, AUX, Dim to Off
DALI Drivers	
EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
OD1	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6, Self powered link
PR1	Advance Xitanium SR, DALI 2, Self powered link
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Drivers	
PS1	Advance Xitanium Step Dimming 50%/100%
EH1	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) option

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
- 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

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

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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

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

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 *See pg 4&5*	G1 G9	1" Grid 9/16" Grid	U 1 2	Universal 120V 277V	FSD	Factory Select Driver *(1%, 0-10v)*	1 E N	Single Emergency Night Light	0 FSB	None Factory Select Battery	W	White	CP FW6 GLR	Chicago Plenum Flex Whip 6' 18-gauge Internal Fast-Blow Fuse
		GS	Screw Slot												

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

Photometrics

Satine Lens

Test #	ITL88956
Catalog #	AD24A-840MO
Lumens	4195 lm
Watts	32.1 W
Efficacy	131 LPW
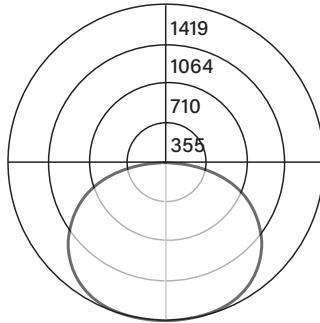
1419
1064
710
355

Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1419	1419	1419	1419	1419
5	1413	1412	1413	1413	1413
10	1393	1390	1395	1396	1394
15	1360	1354	1364	1367	1364
20	1313	1304	1319	1324	1323
25	1251	1244	1262	1270	1271
30	1180	1175	1196	1207	1209
35	1098	1097	1121	1134	1138
40	1009	1011	1037	1054	1060
45	912	919	947	969	974
50	810	820	853	876	884
55	705	716	752	779	785
60	594	610	649	679	686
65	481	501	542	576	585
70	364	391	436	474	488
75	253	283	332	373	389
80	150	182	232	264	276
85	62	90	114	134	142
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1838	1908	1963
55	1751	1868	1950
65	1622	1827	1972
75	1393	1828	2141
85	1014	1864	2321

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP or IAS accredited testing laboratory. Testing conducted at 25℃ 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 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.

White LED: 25ºC 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 = 134,700 hours and L90 = 40,100 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.

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; 2700 = .91 3000K= .93 3500K=.97 4000K=1.0 5000K=1.044 6500K=1.078.

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 98°F/35°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: 28 lbs maximum - Surface mount box adds 10 lbs.

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

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AD24_LED_SPEC_JANUARY2026

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