te _____ Type _

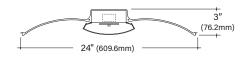






ADEO AD24

2x4 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 28 lbs Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant
- Indigo-Clean available, see Indigo-Clean specification sheets for details















Example Part #: AD24-A-830HO-G1-U-OL2-1-0-W

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

			_
SHIELDING	CRI, CCT & OUTPUT QS,1	MOUNTING	VOLTAGE
A - Satine Lens QS, R - Round Perf L - Linear Perf Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts Lumen Output pg. 2 Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output	G1 - 15/16" Grid $Q\S$, G9 - 9/16" Grid $Q\S$, GS - Screw Slot Grid $Q\S$, FL - Flanged S - Surface Mount Mounting pg. 3	U - Universal (120 thru 277V) QS _→ 1 - 120V QS _→ 2 - 277V QS _→ 3 - 347V Voltage pg. 3

DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
PL2 - Advance Xitanium (1%, 0-10v) QŞ, OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) QŞ, PS1 - Advance Xitanium (50%/100%) OL2 - Osram (1%, 0-10v) QŞ, ND - Non-Dimming Driver pg. 3	1 - Single Circuit QS↓ E - Emergency QS↓ (entire fixture) N - Night Light QS↓ (entire fixture) Circuiting pg. 4	0 - None Q , 1P - Bodine 10W Q , 1IC - lota 10W, CEC Listed Q , 1G - Bodine GTD Battery and Emergency pg. 4	W - White QS₊ Finish pg. 4

FIXTURE OPTIONS ²	CONTROLS
QS - QuickShip Q \mathbb{Q} TW - Through-wiring CP - Chicago Plenum Q \mathbb{Q} AM - Antimicrobial Paint AR - Air Return FW6 - 6' Flex Whip Q \mathbb{Q} GLR - Fast Blow Fusing Q \mathbb{Q} GMF - Slow Blow Fusing Fixture Options pg. 4	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

'Not all products qualify for DLC listing. For a complete listing of the ADEO products that qualify for DLC, please go to the DLC website. For Quickship CRI, CCT & Output see chart on page 4 ²QS must be used in fixture options section of part number to qualify.

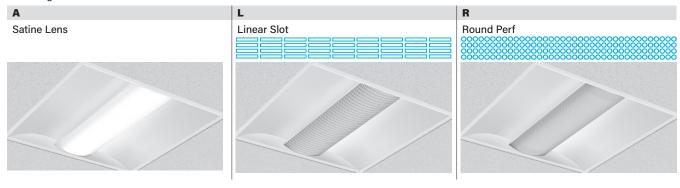
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Shielding

- 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



Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory. 80 CRI = R9≥19 and 90 CRI = R9≥61

 Not all products qualify for DLC listing. For a complete listing of the ADEO products that qualify for DLC, please go to the DLC website.

Custom Output- Lumens OR Wattage

Middle

Very High

Very High

High

Low

High

Middle

32.1

40.7

63.7

24.2

32.1

40.7

63.7

3500K

3500K

3500K

4000K

4000K

4000K

4000K

3569

4436

6352

2824

3742

4657

6727

111.2

109.0

99.7

116.7

116.6

114.4

105.6

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

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935MO

935HO

940LO

940MO

940HO

940VHO

935VHO

_	Color	Output	Watts	Shieldin	g				
				A	-	L		R	
				Satine Le	ns	Linear SI	ot	Round Po	erf
				Lumens	LPW	Lumens	LPW	Lumens	LPW
830LO	3000K	Low	24.2	2922	120.7	1736	71.7	1484	61.3
830MO	3000K	Middle	32.1	3862	120.3	2294	71.5	1962	61.1
830HO	3000K	High	40.7	4801	118.0	2852	70.1	2439	59.9
830VHO	3000K	Very High	63.7	6874	107.9	4083	64.1	3492	54.8
835LO	3500K	Low	24.2	3003	124.1	1784	73.7	1526	63.0
835MO	3500K	Middle	32.1	3969	123.6	2358	73.4	2016	62.8
835HO	3500K	High	40.7	4934	121.2	2931	72.0	2506	61.6
835VHO	3500K	Very High	63.7	7065	110.9	4197	65.9	3589	56.3
840LO	4000K	Low	24.2	3165	130.8	1880	77.7	1608	66.4
840MO	4000K	Middle	32.1	4195	130.7	2492	77.6	2131	66.4
840HO	4000K	High	40.7	5220	128.3	3101	76.2	2652	65.2
840VHO	4000K	Very High	63.7	7541	118.4	4479	70.3	3831	60.1
90 CRI									
927LO	2700K	Low	24.2	2435	100.6	1447	59.8	1237	51.1
927MO	2700K	Middle	32.1	3219	100.3	1912	59.6	1635	50.9
927HO	3500K	High	40.7	4001	98.3	2377	58.4	2033	49.9
927VHO	3500K	Very High	63.7	5730	89.9	3403	53.4	2911	45.7
930LO	3000K	Low	24.2	2692	111.2	1599	66.1	1368	56.5
930MO	3000K	Middle	32.1	3557	110.8	2113	65.8	1807	56.3
930HO	3000K	High	40.7	4422	108.6	2627	64.5	2246	55.2
930VHO	3000K	Very High	63.7	6332	99.4	3761	59.0	3217	50.5
935LO	3500K	Low	24.2	2700	111.6	1604	66.3	1372	56.7

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2120

2635

3773

1677

2223

2766

3996

66.0

64.7

59.2

69.3

69.2

68.0

62.7

AD24_LED_SPEC_JUNE2021 pg. 2

1813

2253

3227

1435

1901

2366

3417

56.5

55.4

50.7

59.3

59.2

58.1

53.6

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 Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.	9/16" Grid Mount 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.	Screw Slot Mounting 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.	Flange Kit 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.	Surface Mount 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

U	Universal
1	120 volt
2	277 volt
3	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

PL2	Advance Xitanium 1%, 0-10v
OL4	Osram Optronic 347v, 1%, 0-10v (requires 347v)
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0%, 0-10v Logarithmic
ES2	eldoLED SOLOdrive 0%, 0-10v Linear
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
PS1	Advance Xitanium Step Dimming 50%/100%
OL2	Osram Optronic 1%, 0-10v, nominal 1% dimming range
ND	Non-Dimming

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

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AD24_LED_SPEC_JUNE2021 pg. 3



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

0	No Battery
1P	Bodine 10w Integral, CEC Listed
1IC	lota 10w Integral, CEC Listed
1G	Bodine GTD

- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

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

W	White

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
GMF	Internal Slow Blow Fuse

Quick Ship

	CRI, CCT & Output	Μοι	unting	Volt	age	Drive	er	Ci	rcuiting	Bat	ttery	Fin	nish	Optio	ons
10-Da	10-Day														
A	80 CRI, All color tem- peratures, all lumen packages See pg 4&5	G9	1" Grid 9/16" Grid Screw Slot	U 1 2	Universal 120V 277V	LH1 OL2	Advance Xitanium 0-10v, 1% Lutron LDE1 Osram 0-10v, 1% Non dimming	1 E N	Single Emergency Night Light		Bodine 10w Integral Iota 10w Integral	W	White	FW6	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.

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pg. 4

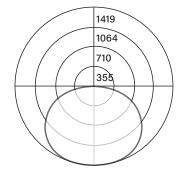
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pg. 5

Photometrics

Satine Lens

Test #: ITL88956
Part #: AD24A-840MO
Total Lumens: 4195 lm
Total Watts: 32.1 W
Efficacy: 131 LPW



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	Average	Average	Average
Degrees	0-Deg	45-Deg	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 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

LED: 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 = 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.

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. 80 CRI = R9≥19 and 90 CRI = R9≥61.

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 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.

Buy American Act Compliant

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

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