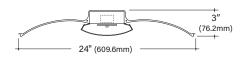
_ Туре __







2x4 Architectural Recessed



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

PS1 - Advance Xitanium (50%/100%)

MOD - Mod options available

Driver pg. 4













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. R - Round Perf L - Linear Perf Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K TW 2CH Tunable White (2700-6500K, 90CRI) CL Custom Lumens CW Custom Watts MOD - Mod options available Lumen Output pg. 2-3	G1 - 15/16" Grid Q \S \bullet G9 - 9/16" Grid Q \S \bullet GS - Screw Slot Grid Q \S \bullet FL - Flanged \bullet S - Surface Mount <i>Mounting pg.</i> 3	U - Universal (120 thru 277V) QS, 1 - 120V QS, 2 - 277V QS, 3 - 347V Voltage pg. 3
	-		
DRIVER	CIRCUITING⁴	BATTERY & EMERGENCY	FINISH
FSD - Factory Select Driver (1%, 0-10v)Q 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)	1 - Single Circuit QS, E - Emergency QS, (entire fixture) N - Night Light QS, (entire fixture) Circuiting pg. 4	O - None QŞ, FSB - Factory Select Battery QŞ, FSG - Factory Select ALCR GI - lota ETS DR GB - Bodine GTD 1ILL - lota 10W	W - White Q \S MOD - Mod options available Finish pg. 5

1PLL - Bodine 10W

Battery and Emergency pg. 4

FIXTURE OPTIONS ⁵	CONTROLS
QS - QuickShip Q \mathbb{S}_{+} TW - Through-wiring CP - Chicago Plenum Q \mathbb{S}_{+} AM - Antimicrobial Paint AR - Air Return FW6 - 6' Flex Whip Q \mathbb{S}_{+} GLR - Fast Blow Fusing \mathbb{S}_{+} DSP - Customer Supplied Battery/Driver/Sensor GMF - Slow Blow Fusing MOD - Mod options available Fixture Options pg. 5	MOD - Mod options available Controls pg. 6

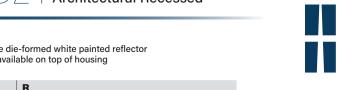
When specifying SOURCE the first _ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending _ are for specifying output, example 835HO - 80CRI, 3500K High Output. See output charts for more information. ²When specifying Tunable White, use **TW** and then specify output, example TWHO - Tunable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

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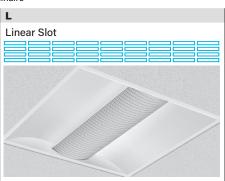


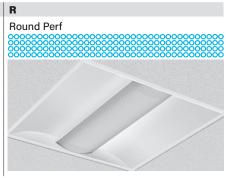
Shielding

- 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









Output

TWVHO

- Specify either 80 or 90 CRI for White light LED
- Longer lead-time may apply for 90 CRI or Tunable White option. Consult factory

Very High 82.7

7400

- 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.		

.TW	Specify desired lumens for Tunable White (i.e. CLI W3200)				Specify lumens between Tunable White offering listed below. Lumens are specified at 4000K CCT set				
0 CRI									
	Color	Output	Watts	Shielding	1				
	COIOI	Juiput	valis	A	,	L		R	
				Satine Ler	ns	Linear SI	ot	Round P	erf
				Lumens	LPW	Lumens	LPW	Lumens	LPW
30LO		Low	21.9	3134	143	1862	85	1592	73
OMO		Middle	29.6	4177	141	2482	84	2122	72
BOHO	— 3000K	High	37.1	5195	140	3086	83	2639	71
0VHO		Very High	55.9	7415	133	4405	79	3767	67
35LO		Low	21.9	3147	144	1869	85	1599	73
35MO		Middle	29.6	4195	142	2492	84	2131	72
35HO	— 3500K	High	37.1	5217	141	3099	84	2650	71
S5VHO		Very High	55.9	7446	133	4423	79	3783	68
IOLO		Low	21.9	3231	148	1919	88	1642	75
OMO		Middle	29.6	4307	146	2559	86	2188	74
0HO	— 4000K	High	37.1	5357	144	3182	86	2721	73
OVHO		Very High	55.9	7646	137	4542	81	3885	69
CRI		, , , 3					1 -		
		1.	lava	1	1	1	1	1	laa
7L0		Low	21.9	2599	119	1544	70	1320	60
7MO	2700K	Middle	29.6	3464	117	2058	70	1760	59
7HO		High	37.1	4308	116	2559	69	2189	59
7VH0		Very High	55.9	6149	110	3653	65	3124	56
30LO		Low	21.9	2662	122	1581	72	1352	62
ВОМО	— 3000K	Middle	29.6	3549	120	2108	71	1803	61
30HO		High	37.1	4413	119	2621	71	2242	60
30VHO		Very High	55.9	6299	113	3742	67	3200	57
35LO		Low	21.9	2778	127	1650	75	1411	64
35MO	— 3500K	Middle	29.6	3703	125	2200	74	1881	64
5HO		High	37.1	4605	124	2736	74	2340	63
35VHO		Very High	55.9	6573	118	3905	70	3340	60
10LO		Low	21.9	2852	130	1694	77	1449	66
10MO	- 4000K	Middle	29.6	3801	128	2258	76	1931	65
ЮНО		High	37.1	4728	127	2808	76	2402	65
10VHO		Very High	55.9	6748	121	4009	72	3428	61
CH Tuna	able Whit	e (2700-6	500K, 9	OCRI)					
VLO		Low	29.1	3100	106.6	1851	63.7	1583	54.4
WMO	2700 -	Middle	39.2	4100	104.7	2451	62.6	2096	53.5
WHO	6500K	High	48.8	5100	104.6	3046	62.4	2605	53.4
140/110		17.	00.7	7400	00.5	4.400	F0 F	0700	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
	Color Changing RGB LED	EC1	DMX
MOD	Color Changing RGB-W LED	EC1	DMX
	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 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
- 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 Driver	s
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Driv	vers
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

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	lota 10w Integral Lithium, Self Testing
1PLL	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

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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

	Wood Grain
	Metallic Silver
	Textured Black
MOD	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
MOD	End Power Feed

Quick Ship

		CRI, CCT & Output	Μοι	unting	Volt	age	Drive	er	Ci	rcuiting	Batte	ery	Fir	ish	Optio	ons
1	10-Day															
-	4	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		Factory Select Driver (1%, 0-10v)	E	Single Emergency Night Light	0 FSB	None Factory Se- lect Battery	W	White	FW6	Chicago Plenum Flex Whip 6' 18-gauge Internal Fast- Blow Fuse

Consult Factory for projects that are larger than 200 units.

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pg. 5



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

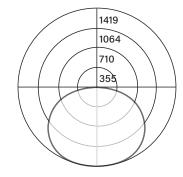
• Consult factory for MOD specification details, pricing, and lead-time information

		Ordering Code	Required Driver
MOD	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



Candela Distribution

Horizontal Angle Angle 22.5 67.5 n

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 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 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: 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 = 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; 2700K = .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 = 89≥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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