roiect Name			

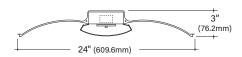
_ Type







2x2 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

- Room-Side Maintenance for LED system
- Buy American Act compliant
- Indigo-Clean available, see Indigo-Clean specification sheets for details

















Example Part #: AD22-A-830HO-G1-U-OL2-1-0-W

AD22	-	-	-	-	-	-	-	-	-	-
	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 \mathbb{S}_{\bullet} G9 - 9/16" Grid Q \mathbb{S}_{\bullet} GS - Screw Slot Grid Q \mathbb{S}_{\bullet} FL - Flanged S - Surface Mount Mounting pg. 3	U - Universal (120 thru 277V) Q \(\) 1 - 120V Q \(\) 2 - 277V Q \(\) 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 (60%/100%) OL2 - Osram (1%, 0-10v) QŞ, FSD - Factory Select Driver (1%, 0-10v) QŞ, Driver pg. 3	1 - Single Circuit Q $\ \ \ \ \ \ \ \ \ \ \ \ \ $	0 - None QS₂ 1P - Bodine 10W QS₂ 1IC - Iota 10W, CEC Listed QS₂ FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD Battery and Emergency pg. 4	W - White QS₅ Finish pg. 4

FIXTURE OPTIONS ²	CONTROLS
QS - QuickShip Q \(\subseteq \) TW - Through-wiring CP - Chicago Plenum Q \(\subseteq \) AM - Antimicrobial Paint AR - Air Return FW6 - 6' Flex Whip Q \(\subseteq \) GLR - Fast Blow Fusing Q \(\subseteq \) 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.

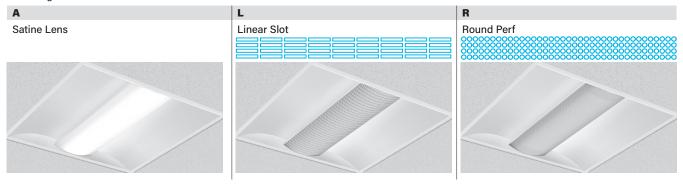
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Shielding

- 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					
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 Le	ens	Linear SI	ot	Round Po	erf
				Lumens	LPW	Lumens	LPW	Lumens	LPW
830LO	3000K	Low	19.6	2131	108.7	1266	64.6	1082	55.2
830MO	3000K	Middle	30.9	3332	107.8	1979	64.0	1692	54.8
830HO	3000K	High	41.7	4311	103.4	2561	61.4	2190	52.5
835LO	3500K	Low	19.6	2190	111.7	1301	66.4	1113	56.8
835MO	3500K	Middle	30.9	3424	110.8	2034	65.8	1739	56.3
835HO	3500K	High	41.7	4431	106.3	2632	63.1	2251	54.0
840LO	4000K	Low	19.6	2328	118.8	1383	70.6	1183	60.3
840MO	4000K	Middle	30.9	3635	117.6	2160	69.9	1845	59.7
840HO	4000K	High	41.7	4713	113.0	2800	67.1	2394	57.4

840HO	4000K	High	41.7	4/13	113.0	2800	67.1	2394	57.4
90 CRI									
927LO	2700K	Low	19.6	1867	95.3	1109	56.6	948	48.4
927MO	2700K	Middle	30.9	2915	94.3	1732	56.0	1481	47.9
927HO	2700K	High	41.7	3780	90.6	2245	53.8	1920	46.0
930LO	3000K	Low	19.6	1963	100.2	1166	59.5	997	50.9
930MO	3000K	Middle	30.9	3069	99.3	1823	59.0	1559	50.5
930HO	3000K	High	41.7	3971	95.2	2359	56.6	2017	48.4
935LO	3500K	Low	19.6	1969	100.5	1170	59.7	1000	51.0
935MO	3500K	Middle	30.9	3079	99.6	1829	59.2	1564	50.6
935HO	3500K	High	41.7	3984	95.5	2366	56.8	2024	48.5
940LO	4000K	Low	19.6	2077	106.0	1234	62.9	1055	53.8
940MO	4000K	Middle	30.9	3243	105.0	1926	62.3	1647	53.3
940HO	4000K	High	41.7	4204	100.8	2497	59.9	2136	51.2

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AD22_LED_SPEC_SEPT2021 pg. 2



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 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
Ī	2	277 volt
	3	347 volt

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AD22_LED_SPEC_SEPT2021 pg. 3





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	
FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	Osram Optotronic, 1%, 0-10v
OL4	Osram 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% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
OL5	Osram Optotronic 1%, 0-10v, AUX
DALI Drivers	
OD1	Osram Optotronic 1%, DEXAL
EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)
EE4	eldoLED SOLOdrive .1%, DALI (linear)
OD2	Osram Optotronic 1%, DALI 2 Channel
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Driv	ers
PS1	Signify Advance Xitanium Step Dimming 50%/100%
PR1	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
EH1	ELV 120v only, 0-10v universal
OD1	Osram Optotronic 1%, DEXAL

pg. 4



$^{+}$

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	ota 10w Integral, CEC Listed					
FSG	Factory Select ALCR, Automatic Load Control Relay					
GI	Iota ETS DR, Emergency Lighting Control Device					
GB	Bodine GTD, Emergency Lighting Control Device					

- 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						
СР	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	Moi	unting	Volt	age	Drive	er	Ci	rcuiting	Bat	tery	Fir	nish	Optio	ons
1	10-Day															
A		packages	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% Factory Select Driver (1%, 0-10v)	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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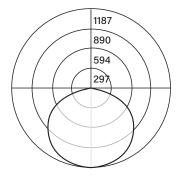
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AD22_LED_SPEC_SEPT2021 pg. 5

Photometrics

Satine Lens

Test #: ITL88941
Part #: AD22A-840MO
Total Lumens: 3635 lm
Total 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	Average	Average	Average
Degrees	0-Deg	45-Deg	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-itg.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 15 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 = 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-Itg.

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. 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 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 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

Buy American Act Compliant

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

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AD22_LED_SPEC_SEPT2021 pg. 6