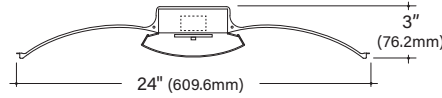


ADEO AD22

2x2 Architectural Recessed



Key Features

- Formed 22 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
- Room-Side Maintenance for LED system



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

AD22 - 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 <i>Shielding pg. 2</i>	_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 <i>Lumen Output pg. 2-3</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 ⁴	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. 4</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 1ILL - Iota 10W 1PLL - Bodine 10W <i>Battery and Emergency pg. 4</i>	W - White ^{QS} MOD - Mod options available <i>Finish pg. 5</i>
FIXTURE OPTIONS ⁵	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 ^{QS} DSP - Customer Supplied Battery/Driver/ Sensor GMF - Slow Blow Fusing 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 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.

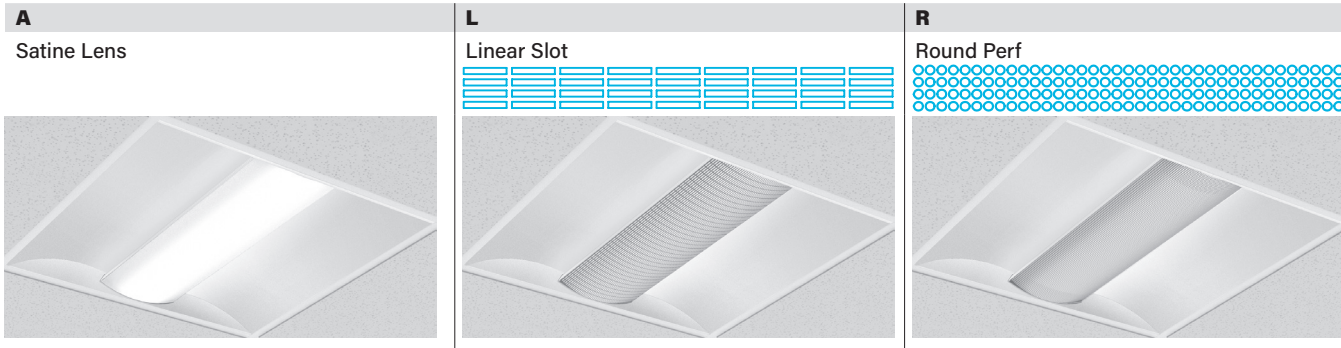
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



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



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		L Linear Slot		R Round Perf	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
830LO	3000K	Low	16.8	2264	134	1345	80	1150	68
830MO		Middle	28.5	3624	127	2152	76	1841	65
830HO		High	38.2	4739	124	2815	74	2407	63
835LO	3500K	Low	16.8	2274	135	1350	80	1155	69
835MO		Middle	28.5	3639	128	2162	76	1849	65
835HO		High	38.2	4759	124	2826	74	2418	63
840LO	4000K	Low	16.8	2335	139	1387	82	1186	70
840MO		Middle	28.5	3737	131	2219	78	1899	67
840HO		High	38.2	4886	128	2902	76	2482	65

90 CRI

927LO	2700K	Low	16.8	1878	111	1115	66	954	57
927MO		Middle	28.5	3005	106	1785	63	1527	54
927HO		High	38.2	3930	103	2334	61	1996	52
930LO	3000K	Low	16.8	1923	114	1142	68	977	58
930MO		Middle	28.5	3078	108	1828	64	1564	55
930HO		High	38.2	4025	105	2391	63	2045	54
935LO	3500K	Low	16.8	2007	119	1192	71	1020	61
935MO		Middle	28.5	3213	113	1908	67	1632	57
935HO		High	38.2	4201	110	2495	65	2134	56
940LO	4000K	Low	16.8	2060	122	1224	73	1047	62
940MO		Middle	28.5	3298	116	1959	69	1676	59
940HO		High	38.2	4312	113	2561	67	2191	57

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

TWLO	2700 - 6500K	Low	24.1	2300	95.3	1391	57.6	1189	49.3
TWMO		Middle	41.8	3600	86.2	2177	52.1	1862	44.6
TWHO		High	45.2	4600	101.7	2781	61.5	2379	52.6

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AD22_LED_SPEC_SEPTEMBER2025



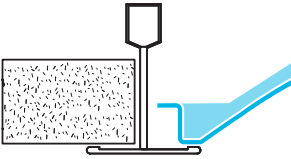
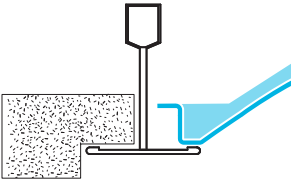
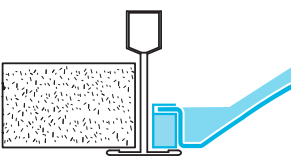
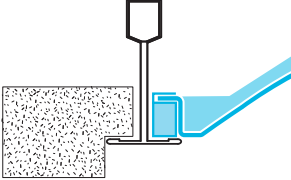
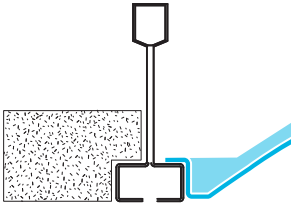
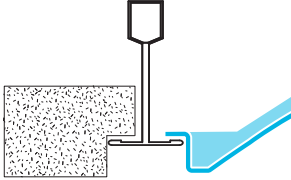
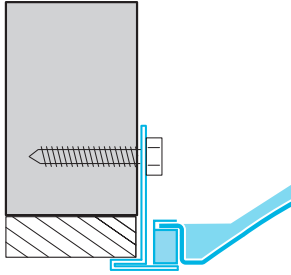
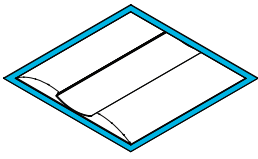
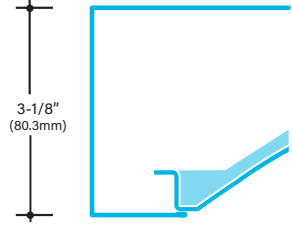
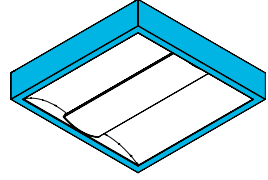
Direct Source: MOD Options

- 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
	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
- 347 volt not available with Tunable White (TW) option

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
- 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
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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)

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



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

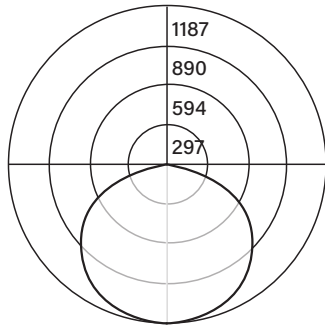
- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

		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 #	ITL88941
Catalog #	AD22A-840MO
Lumens	3635 lm
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 Degrees	Average 0-Deg	Average 45-Deg	Average 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-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%. Luminance 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-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: 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. 90 CRI = R9≥50.

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 1598 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

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