L Ρ Α С Ε ARCHITECTURAL LIGHTING®

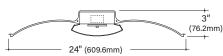
Project Name _

Date __

_ Туре _



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 .
- . Maximum fixture weight is 15 lbs - Surface Mount Box adds 10 lbs
- . Room-Side Maintenance for LED system
- Indigo-Clean available, see Indigo-Clean specification sheets for details .



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

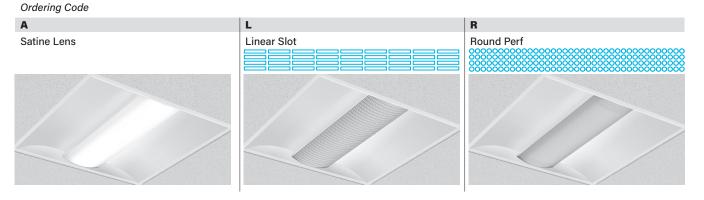
AD22	NTING VOLTAGE DRIVER CIRCUITING	BATTERY & FINISH FIXTURE CONT EMERGENCY OPTIONS	TROLS	
			_	
SHIELDING	SOURCE QS_1	MOUNTING	VOLTAGE	
A - Satine Lens QS₊ R - Round Perf L - Linear Perf Shielding pg. 2	_27 2700K _ 30 3000K _ 35 3500K _ 40 4000K CL Custom Lumens CW Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	G1 - 15/16" Grid Q_{S_*} G9 - 9/16" Grid Q_{S_*} GS - Screw Slot Grid Q_{S_*} FL - Flanged S - Surface Mount <i>Mounting pg. 3</i>	U - Universal (120 thru 277V) QS, 1 - 120V QS, 2 - 277V QS, 3 - 347V Voltage pg. 3	
	-			
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	
FSD - Factory Select Driver (1%, 0-10v) Q PL2 - Advance Xitanium (1%, 0-10v) Q OL2 - eldoLED Optotronic (1%, 0-10v) Q 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%, <i>EcoSystem</i>) PS1 - Advance Xitanium (50%/100%) MOD - Mod options available <i>Driver pg. 4</i>	1 - Single Circuit <i>Q</i> S _▶ E - Emergency (<i>entire fixture</i>) <i>Q</i> S _▶ N - Night Light (<i>entire fixture</i>) <i>Q</i> S _▶ <i>Circuiting pg. 4</i>	0 - None $Q_{s_{\bullet}}^{S_{\bullet}}$ FSB - Factory Select Battery $Q_{s_{\bullet}}^{S_{\bullet}}$ FSG - Factory Select ALCR GI - lota ETS DR GB - Bodine GTD 1IC - lota 10W, CEC Listed $Q_{s_{\bullet}}^{S_{\bullet}}$ 1P - Bodine 10W $Q_{s_{\bullet}}^{S_{\bullet}}$ <i>Battery and Emergency pg. 4</i>	W - White QS. MOD - Mod options available <i>Finish pg.</i> 5	
FIXTURE OPTIONS ²	CONTROLS			
QS - QuickShip QS_{\star} TW - Through-wiring CP - Chicago Plenum QS_{\star} AM - Antimicrobial Paint AR - Air Return FWG - 6' Flex Whip QS_{\star} GLR - Fast Blow Fusing QS_{\star} DSP - Customer Supplied Battery/Driver/ Sensor GMF - Slow Blow Fusing BA - Buy American Act Compliant MOD - Mod options available Fixture Options pg. 5	MOD - Mod options available <i>Controls pg.</i> 6			

When specifying SOURCE the first _ is for specifying either 8 - 80CRI, 9 - 90CRI. The ending _ are for specifying output, example HO - High Output. See output charts for more information. ²If specifying QS, 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



Output

- . Specify either 80 or 90 CRI
- . Longer lead-time may apply for 90 CRI. Consult factory.
- 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

	Color	Output	Watts	Shieldir	ng				
				Α		L		R	
				Satine Le	ens	Linear Sl	ot	Round P	erf
				Lumens	LPW	Lumens	LPW	Lumens	LPW
830LO	3000K	Low	19.6	2131	108.7	1266	64.6	1082	55.2
B30MO	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
B35MO	3500K	Middle	30.9	3424	110.8	2034	65.8	1739	56.3
B35HO	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

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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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

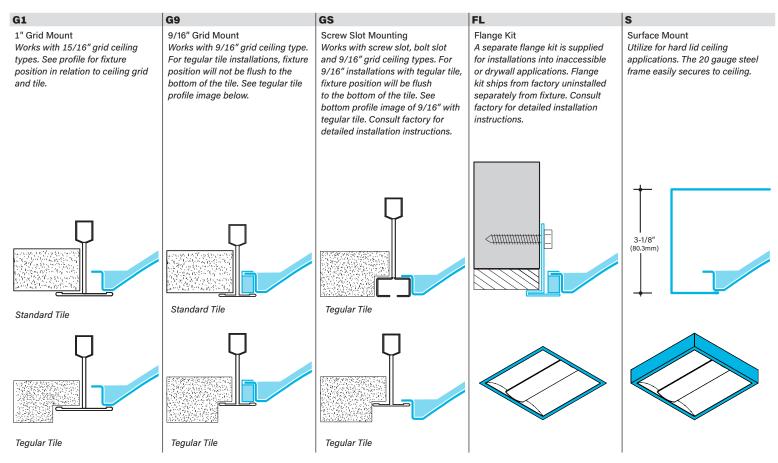
		Required Driver	Required Control
	Color Changing RGB LED	EC1/EC4	DMX
MOD	Color Changing RGB-W LED	EC1/EC4	DMX
	2 Channel Tunable White		
	Dynamic BIOS		

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



Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt

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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

FSDFactory Select Driver 1%, 0-10vPL2Advance Xitanium 1%, 0-10vPL4Advance Xitanium 347v 1%, 0-10v, requires 347vOL2eldoLED Optotronic, 1%, 0-10vOL4eldoLED Optotronic 347v, 1% 0-10v (requires 347v)EE1eldoLED ECOdrive 1%, 0-10v LogarithmicEE2eldoLED ECOdrive 1%, 0-10v LinearES1eldoLED SOLOdrive 0-10v, 0.1% LogarithmicES2eldoLED Optotronic 1%, 0-10v, AUXPL5Advance Xitanium 1%, 0-10v, AUXDALI DriversEE3eldoLED ECOdrive 1%, DALI (logarithmic)ES3eldoLED Optotronic 1%, DALI (logarithmic)OD2eldoLED Optotronic 1%, DALI 2 ChannelLutron DriversLH1Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1Alternate DriversPS1Signify Advance Xitanium SR, requires EASYS, VDO or VRFOD1eldoLED Optotronic 1%, DEXAL	0-10V Drivers	
PL4Advance Xitanium 347v 1%, 0-10v, requires 347vOL2eldoLED Optotronic, 1%, 0-10vOL4eldoLED Optotronic 347v, 1% 0-10v (requires 347v)EE1eldoLED ECOdrive 1%, 0-10v LogarithmicEE2eldoLED ECOdrive 1%, 0-10v LinearES1eldoLED SOLOdrive 0-10v, 0.1% LogarithmicES2eldoLED Optotronic 1%, 0-10v, AUXPL5Advance Xitanium 1%, 0-10v, AUXDALI DriversEE3eldoLED ECOdrive 1%, DALI (logarithmic)ES3eldoLED Optotronic 1%, DALI (logarithmic)OD2eldoLED Optotronic 1%, DALI 2 ChannelLH1Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1Alternate DriversPS1Signify Advance Xitanium SR, requires EASYS, VDO or VRF	FSD	Factory Select Driver 1%, 0-10v
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PS1 Signify Advance Xitanium Step Dimming 50%/100% PR1 Philips Advance Xitanium SR, requires EASYS, VDO or VRF	LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
PR1 Philips Advance Xitanium SR, requires EASYS, VDO or VRF	Alternate Driv	vers
	PS1	Signify Advance Xitanium Step Dimming 50%/100%
OD1 eldoLED Optotronic 1%, DEXAL	PR1	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
	OD1	eldoLED Optotronic 1%, DEXAL
EH1 ELV 120v only, 0-10v universal	EH1	ELV 120v only, 0-10v universal

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

1	Single Circuit
E	Emergency Circuit only
Ν	Night Light Circuit only

Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes

0	No Battery
FSB	Factory Select Battery (10w option)
FSBST	Factory Select Battery (10w, Self Testing)
FSG	Factory Select Automatic Load Control Relay (ALCR), UNV
GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
GB	Bodine GTD, Generator Transfer Device, 120v or 277v
11C	lota 10w Integral
1ILL	Iota 10w Integral Lithium, Self Testing
1IRH	lota 20w Remote
1P	Bodine 10w Integral
1PRH	Bodine 20w Remote
1PLL	Bodine 10w Integral Lithium, Self Testing

- 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

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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
BA	Buy American Act Complaint
тw	Through-Wiring
СР	Chicago Plenum
АМ	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 γ.

MOD	Remote Driver
MOD	End Power Feed

Quick Ship

	CRI, CCT & Output Mounting			Voltage Driver		Circuiting		Battery		Fir	Finish Optic		ons			
	10-Day															
1	A	80 CRI, All color tem- peratures, all lumen packages <i>See pg 4&5</i>	G9	9/16" Grid Screw	U 1 2	Universal 120V 277V	OL2	Advance Xitanium 0-10v, 1% Osram 0-10v, 1% Factory Select		Single Emergency Night Light	1P	Factory Se- lect Battery Bodine 10w Integral lota 10w	W	White	FW6	Chicago Plenum Flex Whip 6' 18-gauge Internal Fast- Blow Fuse
				Slot				Driver (1%, 0-10v)			1IC	Integral				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

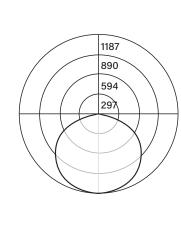
- Specify **MOD** in the part number for any of the below options Control Options may require specific driver. Refer to the chart below
- · Consult factory for MOD specification details, pricing, and lead-time information

		Rwquired Driver
MOD	Encelium Sensilum	OD1, OL5
	Enlighted (Wireless) - ENLI	Any 0-10v
	Enlighted (Wireless) - ENLC	Any 0-10v

Photometrics







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-ltq.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 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. 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%. 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-ltg. com.

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.

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 Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568 AD22_LED_SPEC_OCT2024