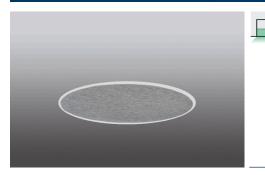
roiect Name			

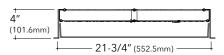
_ Туре







24" Direct Recessed Architectural Round with Sound Absorption



Key Features

SHIELDING1

A - Flush Satine Lens

AL - Drop Satine Lens

- Extruded aluminum housing is rolled and welded for seamless finish with 3/4" trim
- Aluminum top cover conceals all electrical components. Highly reflective die-formed white painted steel reflector

SOURCE²

27 **-** 2700K

30 **_ -** 3000K

- Sound Absorption available in specific configurations
- FINA offered with a 5-year limited warranty. Covers LED, driver and fixture
- ETL Listed conforming to UL1598 in US and CSA 250 in Canada
- Maximum fixture weight is 25 lbs
- Room-side maintenance for LED system
- Buy American Act compliant
- Apparent Noise Reduction Coefficient (NRC) is up to 1.9









VOLTAGE

1 - 120V

U - Universal (120 thru 277V)





Example Part #: F24D-A-830HO-G-U-PL2-1-0-W

F24D 7	SHIELDING	SOURCE	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS

AR - Regress Satine Lens ASF Acoustic Solution Flush (use P to specify color) ASR Acoustic Solution Regress (use P to specify color) Shielding pg. 2	_35 3500K _40 4000K CL Custom Lumens CW Custom Watts NA - Not Applicable (for specifying SA fixtures) Source pg. 3	NF - Non-Flanged SF - Spackle Flange Mounting pg. 3	2 - 277V 3 - 347V NA - Not Applicable (for specifying SA fixtures) Voltage pg. 4
	_		
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) OL2 - Osram Optotronic (1%, 0-10v) OL4 - Osram Optotronic 347v (1%, 0-10v) NA - Not Applicable (for specifying SA fixtures) Driver pg. 4	1 - Single Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) NA - Not Applicable (for specifying SA fixtures) Circuiting pg. 4	0 - None 1G - Bodine GTD 1PB - Bodine 10W FSG - Factory Select ALCR GI - lota ETS DR GB - Bodine GTD NA - Not Applicable (for specifying SA fixtures) Battery and Emergency pg. 4	W - White Finish pg. 4

MOUNTING

G - Grid Ceiling

FL - Flanged

FIXTURE OPTIONS	CONTROLS ³
CP - Chicago Plenum AM - Antimicrobial Paint FW6 - 6' Flex Whip GMF - Slow Blow Fusing DSP - Customer Supplied Battery/Driver/ Sensor NA - Not Applicable (for specifying SA fixtures) Fixture Options pg. 4	DLMFC - Wattstopper DLM (wired) ENLI - Enlighted IOT (remote) ENLC - Enlighted Connected Lighting (remote) NA - Not Applicable (for specifying SA fixtures) Controls pg. 5

When specifying a fixture with only Sound Absorption (no lit components), use NA for the following sections of the part number: SOURCE, VOLTAGE, DRIVER, CIRCUITING, BATTERY & EMERGENCY, or CONTROLS. When specifying SOURCE the first _ is for specifying either **8** - 80CRI, The ending _ _ are for specifying output, example **HO** - High Output. See output charts for more information. *Controls can only be used with Single Circuit (1) or Emergency Circuit (E), cannot be used with any battery options. See Controls chart on page 5 for driver options and more information.

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.

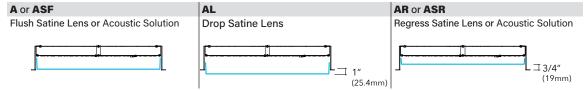


Shielding

White virgin acrylic lens with matte finish, removable for LED access

Lens available in 3 positions

Ordering Code



Acoustic Solutions

- 12mm PET Polyester Fiber acoustic panel
- Recyclable and contains up-to 90% post-consumer content Use SAFP_ or SARP_ for direct panels
- Colors below are for representation purposes, color may vary from photograph, contact factory for sample.

Specify the color of the Sound Absorption with the numeric code below in the Shielding portion of the part number. For example, SAF04 for Direct Sound Absorption, Flush Mounting, White 04



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



Source: White LED

- 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

Sound Absorption

NA Not applicable (for Sound Absorption fixtures)

Custom Output-Lumens OR Wattage

CL	Specify CRI, CCT and desired lumens (i.e. CL8352000)	Specify lumens between standard offering listed below. Lumens are specified per color temp

CW_____ Specify CRI, CCT and desired wattage (i.e. CW94020) Specify watts between standard offering listed below

80 CRI

	Color	Shielding		
		A, AL, AR		
		Satine Lens	;	
		Lumens	Watts	LPW
830LO	3000K	1738	16.5	105
830MO	3000K	2984	27.7	108
830HO	3000K	4174	38.9	107
835LO	3500K	1849	16.7	111
835MO	3500K	3178	28.0	114
835HO	3500K	4448	39.2	114
840LO	4000K	1866	16.7	112
840MO	4000K	3201	27.9	115
840HO	4000K	4476	39.1	114

90 CRI

927LO	2700K	1497	17.2	87
927MO	2700K	2526	29.2	86
927HO	2700K	3472	41.5	84
930LO	3000K	1508	17.1	88
930MO	3000K	2548	28.9	88
930HO	3000K	3504	41.0	86
935LO	3500K	1508	17.1	88
935MO	3500K	2548	28.9	88
935HO	3500K	3504	41.0	86
940LO	4000K	1551	17.2	90
940MO	4000K	2622	29.1	90
940HO	4000K	3605	41.3	87

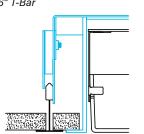
Mounting

- Designed to install into acoustical grid and inaccessible ceilings
- Tie off fixture to structure with retention wires

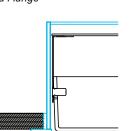
Maximum fixture weight is 25 lbs

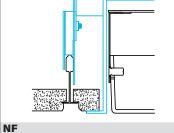


Grid Ceiling with 3/4" (19.1mm) Trim 15/16" T-Bar



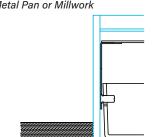
Standard 3/4" (19.1mm) Flange Exposed Flange

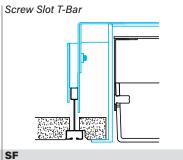




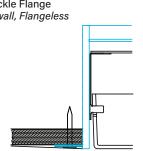
9/16" T-Bar

Non-Flange with 1/4" (6.4mm) Trim Metal Pan or Millwork

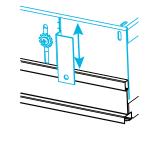




Spackle Flange Drywall, Flangeless



Recessed box allows for 1/2" of adjustability to accommodate a variety of grid ceilings



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



Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt
NA	Not Applicable (for Sound Absorption)

Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more Driver options, see Pinnacle Resource Guide on download pages

at pinnacle-ltg.com

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

0-10V Drivers		
FSD	Factory Select Driver 1%, 0-10v	
OL2	Osram Optotronic, 1%, 0-10v	
OL4	Osram 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 0-10v, 0% Logarithmic	
ES2	eldoLED SOLOdrive 0-10v, 0% Linear	
DALI Drivers		
EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)	
EE4	eldoLED SOLOdrive .1%, DALI (linear)	
Lutron Drivers		
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1	
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only	

Circuiting

- Select fixture circuiting from options below
- Some FINA configurations will not accommodate all circuiting options; consult with factory

1	Single Circuit
E	Emergency Circuit only
N	Night Light Circuit only
NA	Not Applicable (for Sound Absorption)

Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes
- Test button is remote to fixture

0	No Battery
1IRC	Iota 10w Remote
1PB	Bodine 10w Integral
1PRS	Bodine 7w Remote, Self Testing
1PRD	Bodine 10w Remote, Dual Flex
FSG	Factory Select Automatic Load Control Relay (ALCR)
GI	Emergency Transfer Switch (ETS) DR Emergency Control Device
GB	Bodine GTD, Generator Transfer Device

For more Battery options, see Pinnacle Resource Guide on download pages at pinnacle-ltg.com

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
- Emergency circuit only, 10w integral battery

Ordering Code: 1-1PB Ordering Code: E-1PB

Finish

· Powder-coat white painted finish on exposed trim

White

Fixture Options

Additional options to enhance the fixture and finish of the product

CP	Chicago Plenum
AM	Antimicrobial Paint
FW6	Flex Whip 6'
GMF	Internal Slow Blow Fuse
NA	Not Applicable (for Sound Absorption)

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



Controls

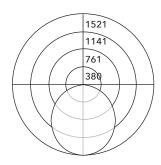
- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; comissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- Contact factory for any non-standard configurations for layout, placement, or EM options
- One sensor per housing typical, contact factory for more information

		Solution	Components	Network/Sensor	Connection	RQD Drivers	Limitation		
DLI	MFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2, OL4	None		
ENI	LI	Enlighted IOT	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt		
ENI	LC	Enlighted Connected Lighting	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt		
NΔ		Not Applicable (for Sound Absorption)							

Photometrics

Satine Lens

Test # ITL92433 F24D-AL-840HO Catalog # 4623 lm Lumens Watts 39.1 W Efficacy 118 LPW



Candela Distribution

Vert Angle	Horizontal An
	0
0	1520
5	1521
10	1505
15	1472
20	1426
25	1367
30	1298
35	1219
40	1131
45	1035
50	931
55	819
60	701
65	579
70	453
75	328
80	211
85	115
90	45
95	38
100	31
105	25
110	20
115	15
120	10
125	7
130	3
135	1

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average	
Degrees	0-Deg	45-Deg	90-Deg	
45	6260	6260	6260	
55	5995	5995	5995	
65	5581	5581	5581	
75	4844	4844	4844	
85	3882	3882	3882	

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

Approvals & Certifications

Construction: Extruded aluminum housing is rolled and welded for seamless finish with minimal trim detail. Aluminum top cover conceals all electrical components. Highly reflective die-formed white painted steel reflector. Wiring access on both sides and top of housing.

Shielding: Single piece diffuse lens creating a fully luminous housing. Available with standard satine lens.

Acoustic Solutions: Acoustic Solutions panels may be specified in place of lit fixture components to aid in Acoustic Control within a space. Acoustic Solutions material is a 9mm PET Polyester Fiber acoustic panel, containing up to 90% post-consumer content, made by others. Acoustic testing was completed by Riverbank Acoustic. For specific reports, contact Pinnacle directly.

Mounting: Designed to install into acoustical grid and inaccessible ceilings. Recessed, aircraft cable, pendant and surface mount available. For recessed, specify G for acoustical grid ceiling. Specify FL, NF, or SF for inaccessible ceilings. Tie off fixture to structure with retention wires. Maximum fixture weight is 25 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 = 146,500 hours and L90 = 45,000 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), Mid (MO) and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & 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), 347 volt (3) options available. Some FINA

configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Advance 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. For more driver options, see Pinnacle Resource Guide on download pages at pinnacle-ltg.com. Some FINA configurations will not accommodate all driver options.

Circuiting: Select from Single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some FINA 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 remote to fixture. For more Battery options, see Pinnacle Resource Guide on download pages at pinnacle-ltg.com.

Finish: Standard powder-coat textured white consult factory for chip of standard paint finishes. Contact factory for additional custom color and finish options.

Controls: DLM utilzes wired network connections for digital control through switching and dimming with 0-10v LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for IOT platform using 0-10v LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for Connected platform using 0-10v LED drivers.

Labels: ETL Listed conforming to UL1598 in US and CSA 250 in Canada. Standard and High output lumen packages are IC Rated for recessed fixtures and are approved for dry/ damp location unless otherwise noted.

Fixture Weight: 25 lbs maximum

Buy American Act compliant

Warranty: FINA 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