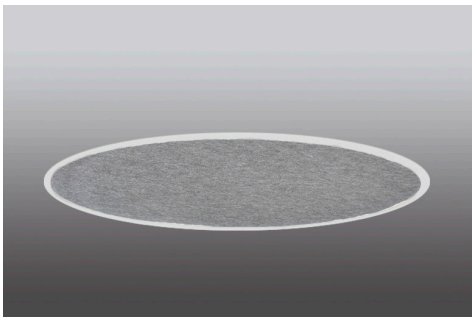
PINNACLE ARCHITECTURAL LIGHTING®

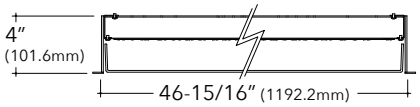
Project Name _____

Date _____ Type _____



FINA F48D

48" Direct Recessed Architectural Round with Sound Absorption



Key Features

- 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
- 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 70 lbs
- Room-side maintenance for LED system
- Buy American Act compliant
- Apparent Noise Reduction Coefficient (NRC) is up to 1.8

Example Part #: F48D-A-830HO-G-U-PL2-1-0-W

F48D - [SHIELDING] - [SOURCE] - [MOUNTING] - [VOLTAGE] - [DRIVER] - [CIRCUITING] - [BATTERY & EMERGENCY] - [FINISH] - [FIXTURE OPTIONS] - [CONTROLS]

__	______	______	_
SHIELDING[1]	**SOURCE**[2]	**MOUNTING**	**VOLTAGE**
A - Flush Satine Lens **AL** - Drop Satine Lens **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*	**_27__** - 2700K **_30__** - 3000K **_35__** - 3500K **_40__** - 4000K **CL_____** - Custom Lumens **CW_____** - Custom Watts **NA** - Not Applicable *(for specifying SA fixtures)* *Source pg. 2*	**G** - Grid Ceiling **FL** - Flanged **NF** - Non-Flanged **SF** - Spackle Flange *Mounting pg. 3*	**U** - Universal *(120 thru 277V)* **1** - 120V **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)* **PS1** - Advance Xitanium *(50%/100%)* **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 **1P** - Bodine 10W **1I** - Iota 10W **1IC** - Iota 10W, CEC Listed **1G** - Bodine GTD **FSG** - Factory Select ALCR **GI** - Iota ETS DR **GB** - Bodine GTD **NA** - Not Applicable *(for specifying SA fixtures)* *Battery and Emergency pg. 4*	**W** - White *Finish pg. 5*

____	____
FIXTURE OPTIONS	**CONTROLS**[3]
CP - Chicago Plenum **AM** - Antimicrobial Paint **FW6** - 6' Flex Whip **GMF** - Slow Blow Fusing **NA** - Not Applicable *(for specifying SA fixtures)* *Fixture Options pg. 5*	**DLMFC** - Wattstopper DLM *(wired)* **ENLI** - Enlighted IOT *(remote)* **ENLC** - Enlighted Connected Lighting *(remote)* **NA** - Not Applicable *(for specifying SA fixtures)* *Controls pg. 5*

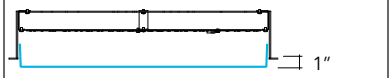
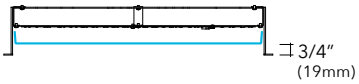
[1]SOURCE. When specifying a fixture with only Sound Absorption (no lit components), use NA for the following sections of the part number: SOURCE, VOLTAGE, DRIVER, CIRCUITING, BATTERY & EMERGENCY, or CONTROLS. [2]When specifying SOURCE the first _ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending _ _ are for specifying output, example **HO** - High Output. See output charts for more information. [3]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

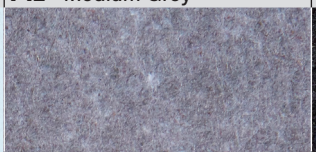
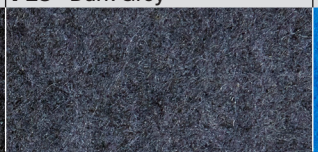
Ordering Code

A or **ASF**	**AL**	**AR** or **ASR**
Flush Satine Lens or Acoustic Solution	Drop Satine Lens	Regress Satine Lens or Acoustic Solution
		

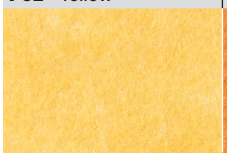
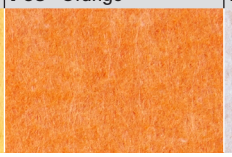
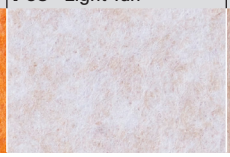
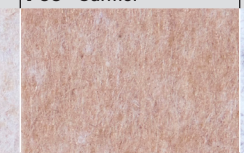
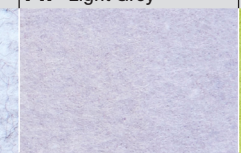
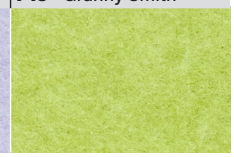
Acoustic Solutions

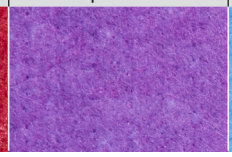
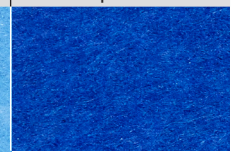
- 9mm PET Polyester Fiber acoustic panel
- Recyclable and contains up-to 90% post-consumer content
- Use SAFP_ _ or SARP_ _ for direct panels
- Colors below are for representation purposes, color may vary from photograph, contact factory for sample
- Specify the color of the Sound Absorption with the numeric code below in the Shielding portion of the part number. For example, SAFP04 for Direct Sound Absorption, Flush Mounting, White 04

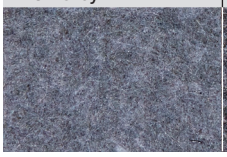
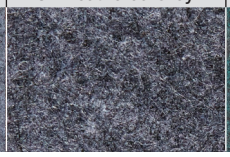
Standard Colors

P04 - White	**P12 -** Medium Grey	**P27 -** Black	**P28 -** Dark Grey	**P33 -** Royal Blue
				

Secondary Colors - May increase lead-time for order. Consult Factory.

P02 - Yellow	**P03 -** Orange	**P05 -** Light Tan	**P06 -** Carmel	**P10 -** Silver	**P11 -** Light Grey	**P13 -** Granny Smith
						

P14 - Lime	**P16 -** Dark Blue	**P17 -** Red	**P18 -** Dark Red	**P19 -** Purple	**P22 -** Sky Blue	**P23 -** Deep Blue
						

P25 - Grey	**P26 -** Heathered Grey	**P34 -** Teal	**P36 -** Dark Silver	**P37 -** Blue	**PCC -** Custom Color
					Please note there is a minimum order quantity for custom matching. Consult factory for order quantity, price and lead-time.

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	9082	81.5	111
830MO	3000K	15653	142.6	110
830HO	3000K	21947	207.4	106
835LO	3500K	9638	82.3	117
835MO	3500K	16740	143.8	116
835HO	3500K	23315	208.7	112
840LO	4000K	9681	82.1	118
840MO	4000K	16723	143.4	117
840HO	4000K	23476	208.4	113

90 CRI

927LO	2700K	7681	84.8	91
927MO	2700K	12982	150.4	86
927HO	2700K	17883	221.4	81
930LO	3000K	7917	84.3	94
930MO	3000K	13367	149.2	90
930HO	3000K	18451	219.3	84
935LO	3500K	7917	84.3	94
935MO	3500K	13367	149.2	90
935HO	3500K	18451	219.3	84
940LO	4000K	8310	84.3	99
940MO	4000K	14051	149.5	94
940HO	4000K	19409	220.1	88

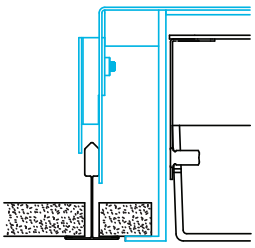
Mounting

- Designed to install into acoustical grid and inaccessible ceilings
- Tie off fixture to structure with retention wires
- Maximum fixture weight is 70 lbs

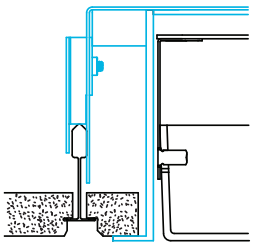
G

Grid Ceiling with 3/4" (19.1mm) Trim

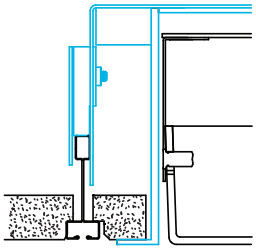
15/16" T-Bar



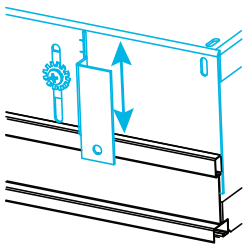
9/16" T-Bar



Screw Slot T-Bar



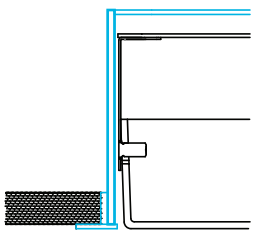
Recessed box allows for 1/2" of adjust-ability to accommodate a variety of grid ceilings



FL

Standard 3/4" (19.1mm) Flange

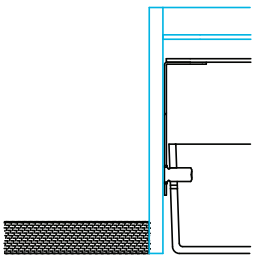
Exposed Flange



NF

Non-Flange with 1/4" (6.4mm) Trim

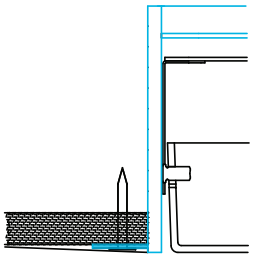
Metal Pan or Millwork



SF

Spackle Flange

Drywall, Flangeless



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 = PL2
- 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
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 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)
OD1	Osram Optotronic 1%, DEXAL
OD2	Osram Optotronic 1%, DALI 2 Channel
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
Alternate Drivers	
PS1	Signify Advance Xitanium Step Dimming 50%/100%

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

0	No Battery
1P	Bodine 10w Integral
1C	Iota 10w Integral
1IC	Iota 10w Integral, *CEC Listed*
1G	Bodine GTD, Generator Transfer Device
FSG	Factory Select ALCR, Automatic Load Control Relay
GI	Iota ETS DR, Emergency Lighting Control Device
GB	Bodine GTD, Emergency Lighting Control Device
NA	Not Applicable *(for Sound Absorption)*

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

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

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
DLMFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2, OL4	None
ENLI	Enlighted IOT	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt
ENLC	Enlighted Connected Lighting	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt
NA	Not Applicable (for Sound Absorption)					

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 70 lbs.

LED: 25ºC 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 integral 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 utlizes 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: 70 lbs maximum

Buy American Act compliant

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