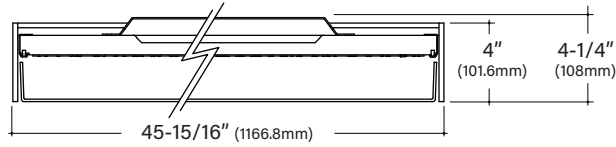




# FINA F48DI

48" Direct / Indirect Suspended Architectural Round



## Key Features

- Aluminum housing is rolled and welded for seamless finish with 1/4" 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
- IC Rated, UL and cUL Listed, approved for dry/damp location
- Maximum fixture weight is 70 lbs
- Room-side maintenance for LED system
- Buy American Act compliant



Example Part #: F48DI-A-830-830-AC348JB-U-PL2-1-0-W

**F48DI** - SHIELDING - DIRECT SOURCE - INDIRECT SOURCE - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS

SHIELDING	DIRECT SOURCE <sup>1</sup>	INDIRECT SOURCE <sup>1</sup>	MOUNTING <sup>2</sup>
<b>A</b> - Flush Satine Lens <b>AL</b> - Drop Satine Lens <b>AR</b> - Regress Satine Lens <i>Shielding pg. 2</i>	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 2</i>	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 3</i>	<b>AC3</b> - 3 AC to JB or ST <b>AH4</b> - 4 AC w/hub to JB or ST <b>PP</b> - Pendant Pipe to JB or ST <b>PS</b> - Pendant Swivel to JB or ST <i>Mounting pg. 3</i>

VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY
<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 4</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <b>PL2</b> - Advance Titanium (1%, 0-10v) <b>PS1</b> - Advance Titanium (50%/100%) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>OL2</b> - Osram (1%, 0-10v) <b>OL4</b> - Osram 347V (1%, 0-10v) <i>Driver pg. 4</i>	<b>1</b> - Single Circuit <b>2</b> - Dual Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <i>Circuiting pg. 4</i>	<b>0</b> - None <b>1P</b> - Bodine 10W <b>1I</b> - Iota 10W <b>1IC</b> - Iota 10W (CEC Listed) <b>1G</b> - Bodine GTD <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <i>Battery &amp; Emergency pg. 4</i>

FINISH	FIXTURE OPTIONS	CONTROLS <sup>3</sup>
<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 5</i>	<b>AM</b> - Antimicrobial Paint <b>GMF</b> - Slow Blow Fusing <i>Fixture Options pg. 5</i>	<b>DLMFC</b> - Wattstopper DLM (wired) <b>ENLI</b> - Enlighted IOT (remote) <b>ENLC</b> - Enlighted Connected Lighting (remote) <i>Controls pg. 5</i>

<sup>1</sup>When specifying SOURCE the first \_ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending \_ \_ are for specifying output, example **HO** - High Output. <sup>2</sup>Example: AC348JB. AC3 = 3 Aircraft Cables, 48 = 48" long cables, JB = connects to junction box. Standard AC cable lengths are 48" and 120", field adjustable. Standard pendant lengths are 12", 18", or 24". <sup>3</sup>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.

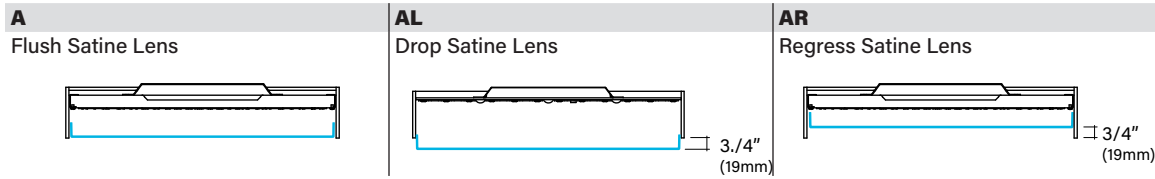
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## Shielding

- White virgin acrylic lens with matte finish, removable for LED access
- Lens available in 3 positions

### Ordering Code



## Direct 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

## Custom Output- Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL8352000)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW94020)	Specify watts between standard offering listed below

### 80 CRI

	Color	Shielding <b>A, AL, AR</b> Satine Lens		
		Lumens	Watts	LPW
<b>830LO</b>	3000K	9082	81.5	111
<b>830MO</b>	3000K	15653	142.6	110
<b>830HO</b>	3000K	21947	207.4	106
<b>835LO</b>	3500K	9638	82.3	117
<b>835MO</b>	3500K	16740	143.8	116
<b>835HO</b>	3500K	23315	208.7	112
<b>840LO</b>	4000K	9681	82.1	118
<b>840MO</b>	4000K	16723	143.4	117
<b>840HO</b>	4000K	23476	208.4	113

### 90 CRI

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



**Indirect 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

**Custom Output- Lumens OR Wattage**

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL8352000)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW94020)	Specify watts between standard offering listed below

**80 CRI**

	Color	Shielding		
		LO		
		Clear Lens Overlay		
		Lumens	Watts	LPW
<b>830LO</b>	3000K	5837	40.8	143
<b>830MO</b>	3000K	8582	60.9	141
<b>830HO</b>	3000K	11216	84.7	132
<b>835LO</b>	3500K	6079	40.7	149
<b>835MO</b>	3500K	8954	60.8	147
<b>835HO</b>	3500K	11722	84.7	138
<b>840LO</b>	4000K	6245	40.7	153
<b>840MO</b>	4000K	9184	60.8	151
<b>840HO</b>	4000K	11925	84.7	141

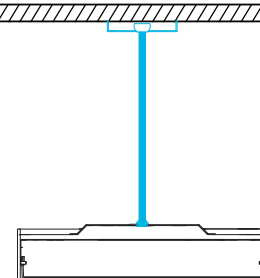
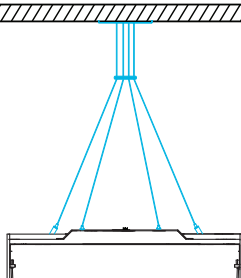
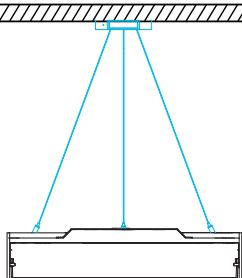
**90 CRI**

<b>927LO</b>	2700K	4835	40.8	119
<b>927MO</b>	2700K	7110	60.9	117
<b>927HO</b>	2700K	9231	84.7	109
<b>930LO</b>	3000K	5090	40.8	125
<b>930MO</b>	3000K	7486	60.9	123
<b>930HO</b>	3000K	9720	84.7	115
<b>935LO</b>	3500K	5090	40.8	125
<b>935MO</b>	3500K	7486	60.9	123
<b>935HO</b>	3500K	9720	84.7	115
<b>940LO</b>	4000K	5414	40.8	133
<b>940MO</b>	4000K	7962	60.9	131
<b>940HO</b>	4000K	10338	84.7	122

**Mounting**

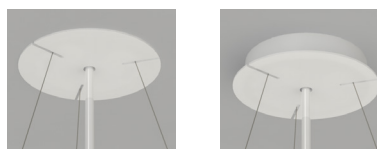
- Aircraft cables and pendants mount directly to a standard junction box or structure
- Canopies and pendants match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details.
- Must specify overall pendant length of 12", 18" or 24"
- Must specify cable length, either 48" or 120" standard, field adjustable
- Maximum fixture weight is 70 lbs

<b>AC3_JB</b> 3 AC cables to fixture to J-Box	<b>AH4_JB</b> 4 AC cables with hub to fixture to J-Box	<b>PP_JB</b> Pendant Pipe to J-Box
<b>AC3_ST</b> 3 AC cables to fixture to Structure	<b>AH4_ST</b> 4 AC cables with hub to fixture to Structure	<b>PS_JB</b> Pendant Swivel to J-Box
		<b>PP_ST</b> Pendant Pipe to Structure
		<b>PS_ST</b> Pendant Swivel to Structure



**Canopies**

- The canopy can be installed either below the ceiling plane or semi-recessed into the ceiling for a flush mount installation
- Standard kit can be installed either way
- Flush canopy installation is not available for fixtures installed below a grid rail



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## Voltage

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

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt

## 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

<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	Osram Optotronic, 1%, 0-10v
<b>OL4</b>	Osram Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0-10v, 0% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear

### DALI Drivers

<b>EE3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>EE4</b>	eldoLED SOLOdrive .1%, DALI (linear)
<b>OD1</b>	Osram Optotronic 1%, DEXAL
<b>OD2</b>	Osram Optotronic 1%, DALI 2 Channel

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>LH4</b>	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only

### Alternate Drivers

<b>PS1</b>	Signify Advance Xitanium Step Dimming 50%/100%
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## Circuiting

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

<b>1</b>	Single Circuit
<b>2</b>	Dual Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## 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

<b>0</b>	No Battery
<b>1IC</b>	Iota 10w Integral
<b>1ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>1IRH</b>	Iota 20w Remote
<b>1P</b>	Bodine 10w Integral
<b>1PLL</b>	Bodine 10w Integral Lithium, Self Testing
<b>1PRH</b>	Bodine 20w Remote
<b>FSG</b>	Factory Select Automatic Load Control Relay (ALCR)
<b>GI</b>	Emergency Transfer Switch (ETS) DR Emergency Control Device
<b>GB</b>	Bodine GTD, Generator Transfer Device

### 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: 1-1PB
- Emergency circuit only, 10w integral battery      Ordering Code: E-1PB



## Finish

- Powder-coat white painted finish on exposed trim

<b>W</b>	White <i>(white cord/white canopy)</i>
<b>S</b>	Metallic Silver <i>(grey cord/silver canopy)</i>
<b>BL</b>	Textured Black <i>(black cord/black canopy)</i>
<b>BR</b>	Bronze <i>(white cord/bronze canopy)</i>
<b>GR</b>	Graphite <i>(white cord/graphite canopy)</i>
<b>CC</b>	Custom Color <i>(white cord/color match canopy)</i>

## Fixture Options

- Additional options to enhance the fixture and finish of the product

<b>AM</b>	Antimicrobial Paint
<b>GMF</b>	Internal Slow Blow Fuse

## 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; commissioning 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
<b>DLMFC</b>	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2, OL4	None
<b>ENLI</b>	Enlighted IOT	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt
<b>ENLC</b>	Enlighted Connected Lighting	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt

## 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 top of housing.

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

**Mounting:** Aircraft cable, Pendant, Surface and Wall mount available. Aircraft Cable and pendant supplied with 5" (127mm) canopies. Refer to installation instructions for appropriate ceiling detail. Maximum fixture weight is 70 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. Must specify OL4 in Driver section when 347 volt (3) is selected. 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, metallic silver, textured black, graphite, or bronze painted finish, consult factory for chip of standard paint finishes. Contact factory for additional custom color and finish options.

**Controls:** DLM utilizes 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. LO, MO, and HO lumen packages are IC Rated, 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.