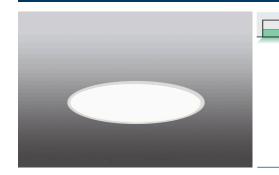
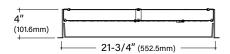
te ______ Type _____





FINA F24D

24" Direct Recessed Architectural Round



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
- Room-side maintenance for LED system











Example Part #: F24D-A-930HO-G-U-FSD-1-0-W

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

			_
SHIELDING	SOURCE ¹	MOUNTING	VOLTAGE
A - Flush Satine Lens AL - Drop Satine Lens AR - Regress Satine Lens Shielding pg. 2	927 2700K 930 3000K 935 3500K 940 4000K CL Custom Lumens CW Custom Watts Source pg. 2	G - Grid Ceiling FL - Flanged NF - Non-Flanged SF - Spackle Flange <i>Mounting pg. 3</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 3

	_		
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
FSD - Factory Select Driver (1%, 0-10v) 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) Driver pg. 3	1 - Single Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4	0 - None FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD IICL - Iota 7W Integral 1PB - Bodine 10W 1PCL - Bodine 6W Integral Battery and Emergency pg. 4	W - White Finish pg. 4

FIXTURE OPTIONS ²	CONTROLS ³
CP - Chicago Plenum AM - Antimicrobial Paint FW6 - 6' Flex Whip DSP - Customer Supplied Battery/Driver/ Sensor GMF - Slow Blow Fusing BA - Buy America(n) Act and/or Build America Buy America Compliant Fixture Options pg. 4	DLMFC - Wattstopper DLM (wired) Controls pg. 4

When specifying SOURCE use the ending __ are for specifying output, example **HO** - High Output. See output charts for more information. ²Compliance is configuration dependent; consult factory for confirmation. ³Controls can only be used with Single Circuit (1) or Emergency Circuit (E), cannot be used with any battery options. See Controls chart on page 4 for driver options and more information.

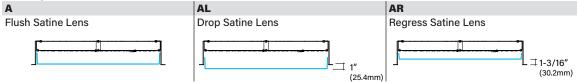
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Shielding

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

Ordering Code



Source: White LED

• 90 CRI = R9≥50

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		

90 CRI

	Color	Shielding		
		A, AL, AR		
		Satine Lens	3	
		Lumens	Watts	LPW
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

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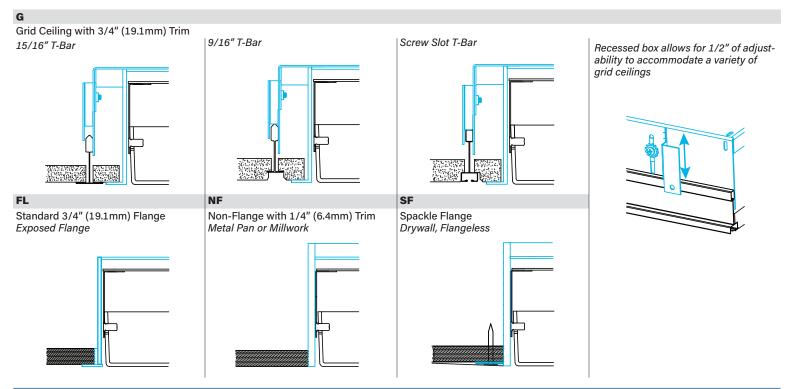


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Mounting

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

Maximum fixture weight is 25 lbs



Voltage

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

U	Universal
1	120 volt
2	277 volt
3	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

at primation regions.				
0-10V Drivers				
FSD	Factory Select Driver 1%, 0-10v			
PL2	Advance Xitanium, 1%, 0-10v			
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 0-10v, 0.1% Logarithmic			
ES2	eldoLED SOLOdrive 0-10v, 0% Linear			
DALI Drivers				
EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6			
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6			
Lutron Drivers				
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDF1			

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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

Battery & Emergency

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

0	No Battery	
FSG	Factory Select ALCR Emergency Control Device, UNV	
GI	lota ETS-DR, Emergency Control Device, UNV	
GB	Bodine GTD, Emergency Control Device, 120v or 277v	
1ICL	lota 7w, Integral Lithium, Self Testing	
1PB	Bodine 10w, Integral	
1PCL	Bodine 6w, Integral Lithium, Self Testing	

 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: 1-1PCL
Ordering Code: E-1PCL

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'
DSP	Customer Supplied Battery/Driver/Sensor
GMF	Internal Slow Blow Fuse

Domestic content option - compliance is configuration dependent; consult factory for conformation

BA Buy America(n) Act and/or Build America Buy America Compliant

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 drop/sensor per run 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

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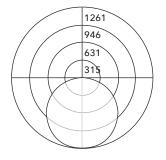
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Photometrics

Satine Lens

Test # Scaled from ITL92432
Catalog # F24D-A-940HO
Lumens 3605 Im
Watts 41.3 W
Efficacy 87 LPW



Candela Distribution

Vert Angle	Horizontal Angle
	0
0	1260
5	1261
10	1244
15	1217
20	1177
25	1126
30	1066
35	999
40	922
45	839
50	750
55	654
60	554
65	450
70	344
75	238
80	140
	1

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	5122	5122	5122
55	4921	4921	4921
65	4597	4597	4597
75	3975	3975	3975
85	2991	2991	2991

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

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.

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.

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. TM-21-21 Lifetime Rating L70 = >102,000 hours, L90 = 52,600 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.com.

CRI, CCT & Output: Not all lumen packages available. 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 CRI, CCT & Output page. 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 PL4 or OL4 in Driver section when 347 volt (3) is selected. Some configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. 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. Some 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 utlizes wired network connections for digital control through switching and dimming with 0-10v LED drivers.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. 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

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

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