PINNACLE
ARCHITECTURAL LIGHTING®

FINA F24D
24" Direct Suspended Architectual Round with Acoustic Solutions

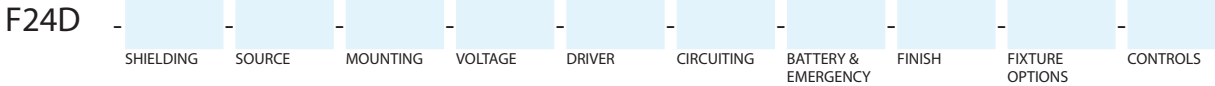4" (101.6mm)
4-1/4" (108mm)
21-15/16" (557.2mm)
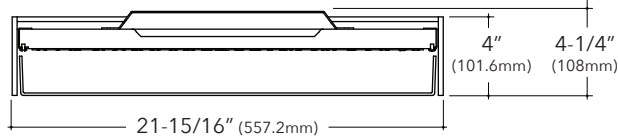
Key Features

- 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
- 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

LED | 5 YEAR LED WARRANTY | SMART | ETL LISTED US

Example Part #: F24D-A-830HO-AC348JB-U-PL2-1-0-W

F24D ‑ ___ ‑ ___ ‑ ___ ‑ ___ ‑ ___ ‑ ___ ‑ ___ ‑ ___ ‑ ___ ‑ ___

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

_ _	_ _ _ _ _ _	_ _ _ _ _ _	_
SHIELDING¹	**SOURCE²**	**MOUNTING³**	**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. 3	AC3_ _ _ _ _ _ - 3 AC to JB or ST AH4_ _ _ _ _ - 4 AC w/hub to JB or ST PP_ _ _ _ - Pendant Pipe to JB or ST PS_ _ _ _ - Pendant Swivel to JB or ST S - Surface Mount WA - Wall Mount 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**
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 (1%, 0-10v) OL4 - Osram 347v (1%, 0-10v) ND - Non-Dimming 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 1PB - Bodine 10W NA - Not Applicable (for specifying SA fixtures) Battery and Emergency pg. 4	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 4

_ _ _ _	_
FIXTURE OPTIONS	**CONTROLS⁴**
AM - Antimicrobial Paint GMF - Slow Blow Fusing 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

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
	3./4" (19mm)	3/4" (19mm)

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
- If Acoustic Solutions are specified for the direct portion of the fixture and the indirect portion is non-illuminated, acoustic material will be applied to the indirect side of the fixture.

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

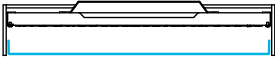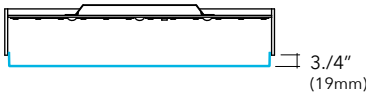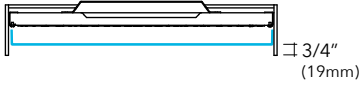| P25 - Grey	P26 - Heathered Grey	P34 - Teal	P36 - Dark Silver	P37 - Blue	PCC - Custom Color
					Please note there is a minimum order quantity for custom matching. Consult factory for order quantity, price and lead-time.

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.

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pg. 2

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

- 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 25 lbs

AC3___JB	AH4___JB	PP__JB	S
3 AC cables to fixture to J-Box	4 AC cables with hub to fixture to J-Box	Pendant Pipe to J-Box	Surface Mount Ceiling
		PS__JB	
		Pendant Swivel to J-Box	
AC3___ST	AH4___ST	PP__ST	WA
3 AC cables to fixture to Structure	4 AC cables with hub to fixture to Structure	Pendant Pipe to Structure	Surface Mount Wall
		PS__ST	
		Pendant Swivel to Structure	
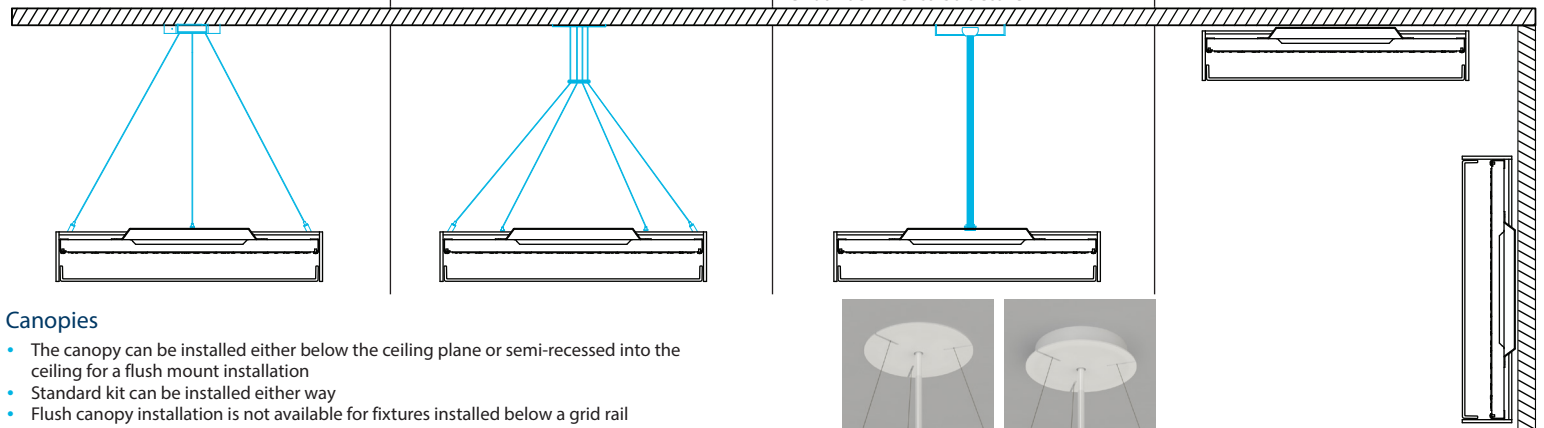
Canopies

- 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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pg. 3

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

PL2	Philips Advance Xitanium 1%, 0-10v
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
ES1	eldoLED SOLOdrive 0%, 0-10v Logarithmic
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
OL4	Osram Optotronic 347v 1%, 0-10v, requires 347v option
ND	Non-Dimming
NA	Not Applicable (for Sound Absorption)

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

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

0	No Battery
1PB	Bodine 10w
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: 1-1PB
- Emergency circuit only, 10w integral battery Ordering Code: E-1PB

Finish

- Powder-coat white painted finish on exposed trim

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

Fixture Options

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

| AM	Antimicrobial Paint
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	Any 0-10v	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)					

Photometrics

Satine Lens

Test #	ITL92433
Catalog #	F24D-AL-840HO
Lumens	4623 lm
Watts	39.1 W
Efficacy	118 LPW
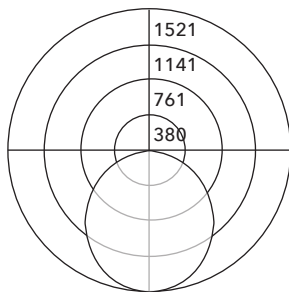
1521
1141
761
380

Candela Distribution

Vert Angle	Horizontal Angle 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
140	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 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℃ 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 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: 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 25 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. 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℃ 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, 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 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. LO, MO, and HO lumen packages are IC Rated, 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.

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