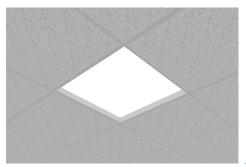
Project Name

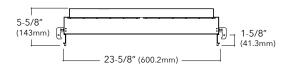
_ Type _







2x2 Direct Recessed Architectural Square



Key Features

- Formed 20 gauge cold rolled steel housing Highly reflective die-formed white painted reflector
- LiFT 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 #: LF22-AR-930HO-G-U-FSD-1-0-W

LF22 - AR CRI, CCT & OUTPUT BATTERY & SHIELDING MOUNTING VOLTAGE DRIVER CIRCUITING FIXTURE CONTROLS FINISH EMERGENCY OPTIONS

AR			-
SHIELDING	SOURCE ^{1,2}	MOUNTING	VOLTAGE ³
AR - Regressed Satine Lens	927 90 CRI, 2700K 930 90 CRI, 3000K 935 90 CRI, 3500K 940 90CRI, 4000K TW 2CH Tunable White (2700-6500K, 90CRI) CL Custom Lumens CW Custom Watts Source pg. 2	G - Grid Ceiling FL - Flanged SF - Spackle Flange Mounting pg. 2	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 3

	_		
DRIVER	CIRCUITING ⁴	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) PS1 - Advance Xitanium (50%/100%) Driver pg. 4		O - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD 1ILL - Iota 10W, Integral 1PLL- Bodine 10W Integral Battery and Emergency pg. 4	W - White Finish pg. 4

FIXTURE OPTIONS⁵	CONTROLS
CP - Chicago Plenum	MOD - Mod options available
AM - Antimicrobial Paint	Controls pg. 4
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	

'When specifying SOURCE the ending __ are for specifying output, example HO - High Output. See output charts for more information. ²When specifying Tunable White, use TW and then specify output, example TWHO - Tunable White option requires driver option FSD which provides separate 0-10v control leads for Intensity and CCT. *Tunable White (TW) option only available with Universal (U), 120V (1) or 277V (2) options. Consult factory for Emergency (E) options with Tunable White (TW) option. Compliance is configuration dependent; consult factory for confirmation.

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Source

- 90 CRI = R9≥50
- Longer lead-time may apply for Tunable White option. Consult factory
- Tunable White option requires driver option FSD which provides separate 0-10v

control leads for Intensity and CCT.

Tunable White lumen packages shown at 4000K CCT setpoint

Custom Output- Lumens OR Wattage Specify CCT and desired lumens (i.e. CL9352000) Specify lumens between standard offering listed below. Lumens are specified per color temp CW Specify CCT and desired wattage (i.e. CW94020) Specify watts between standard offering listed below Specify desired lumens for Tunable White (i.e. CLTW3200) CLTW Specify lumens between Tunable White offering listed below. Lumens are specified at 4000K CCT setpoint.

90 CRI

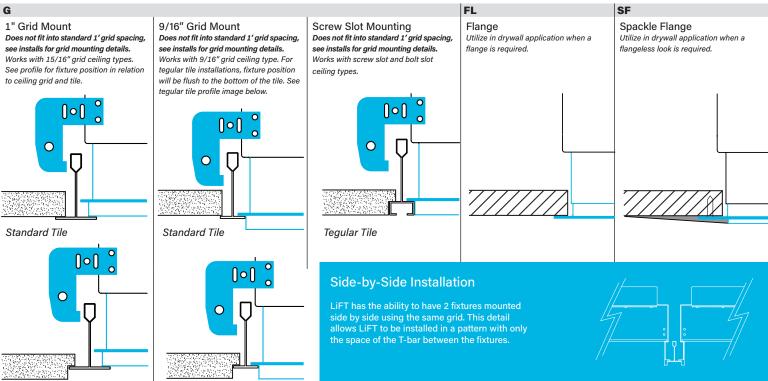
	Color	Lumens	Shielding AR Satine Lens	S LPW
927LO		2487	19.2	130
927MO	2700K	4044	33.8	120
927HO		5532	48.1	115
930LO		2602	19.3	135
930MO	3000K	4223	33.8	125
930HO		5782	48.1	120
935LO		2549	19.2	133
935MO	3500K	4135	33.6	123
935HO		5694	48.2	118
940LO		2633	19.1	138
940MO	4000K	4271	33.5	127
940HO		5889	48.1	122

2 CH Tunable White (2700-6500K, 90CRI)

TWLO	2700 - 6500K	2500	20.5	122
TWMO		4200	35.3	119
TWHO		5500	48.0	114

Mounting

- LiFT 1x2 Recessed does not fit into standard 1' grid spacing, see installs for grid mounting details.
- Designed to install into acoustical grid and inaccessible ceilings
- Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Maximum fixture weight is 16 lbs
- Refer to installation instructions during installation at the job site
- Approved for dry/damp location unless otherwise noted



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Tegular Tile

Voltage

- Some LIFT configurations will not accommodate all voltage options; consult with factory 347 volt not available with Tunable White (TW) option

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 LIFT 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	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	
OD1	eldoLED Optotronic 1%, DEXAL	
Lutron Drivers		
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1	
Alternate Drivers		
PS1	Signify Advance Xitanium Step Dimming 50%/100%	

Circuiting

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

1	Single Circuit
E	Emergency Circuit only

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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
FSB	Factory Select Battery (10w option)
FSBST	Factory Select Battery (10w, Self Testing)
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
1ILL	lota 10w, Integral Lithium, Self Testing
1PLL	Bodine 10w, Integral Lithium, Self Testing

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 130 (LPW) = 1,300 battery lumen output

Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery
- Emergency circuit only, 10w integral battery

Ordering Code: 1-1FSB Ordering Code: E-1PLL

Finish

- Powder-coat white painted finish on exposed trim
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

w	White
VV	vviiite

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
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Controls

· Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Controls: MOD Options

- Specify MOD in the part number for any of the below options
- Control Options may require specific driver. Refer to the chart below

Consult factory for MOD specification details, pricing, and lead-time information

Ordering Code **AWNR**

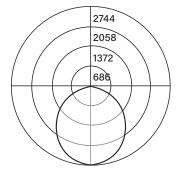
Required Driver OD1, PR1, OL5, PL5

MOD Lutron Athena Connected

Photometrics

Satine Lens

Test # KPL2015-109 Catalog # LF22-AR-940HO Lumens 7074 lm Watts 58.3 watts 121 LPW Efficacy



Candela Distribution

Vert	Horizontal Angle						
Angle							
	0	22.5	45	67.5	90		
0	2742	2742	2742	2742	2742		
5	2728	2724	2718	2719	2721		
10	2672	2666	2659	2662	2665		
15	2586	2577	2570	2573	2579		
20	2472	2462	2455	2459	2467		
25	2337	2324	2316	2322	2331		
30	2183	2169	2159	2166	2178		
35	2014	1998	1989	1996	2009		
40	1832	1816	1805	1813	1827		
45	1641	1624	1615	1622	1637		
50	1443	1427	1419	1425	1440		
55	1242	1226	1218	1224	1238		
60	1039	1024	1016	1022	1037		
65	838	823	816	822	835		
70	639	626	619	625	639		
75	446	434	429	434	446		
	1	I	1	1	1		

97 97 100

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6801	6695	6786
55	6348	6221	6326
65	5813	5656	5794
75	5047	4862	5048
85	3312	3264	3353

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

98 96

85

Approvals & Certifications

Construction: Formed 20 gauge cold rolled steel housing. Highly reflective die-formed white painted reflector. Wiring access available on top of housing. Lens is removable for room-side maintenance of lens, driver and LED boards.

Shielding: Single piece extruded diffuse acrylic lens creating a fully luminous fixture.

Mounting: Designed to install into acoustical grid and inaccessible ceilings. Specify G for acoustical grid ceiling. Specify FL or SF for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with

White 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 = >60,000 hours, L90 = 52,900 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

Tunable White LED: 2 channel solution with 2700K and 6500K LED, 90CRI only, R9 >50. Lumen packages available shown at 4000K CCT setpoint, lumen output varies based on CCT. Use multipliers for other CCT; 2700K = .91 3000K= .93 3500K=.97 4000K=1.0 5000K=1.044 6500K=1.078.

Color & Lumen 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. Ambient operating range: -20°F/-30°C to 96°F/27C. For more driver options, see Pinnacle Resource Guide. Some configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1) or Emergency circuit (E). Some LiFT 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: Powder-coat white painted finish on exposed trim.

Controls: Mod options available, consult with factory.

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. LO, MO, and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

Fixture Weight: 25 lbs maximum.

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

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