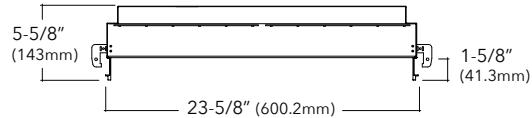


LiFT LF22

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	SHIELDING	CRI, CCT & OUTPUT	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	Fixture Options	CONTROLS
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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 <i>Source pg. 2</i>	G - Grid Ceiling FL - Flanged SF - Spackle Flange <i>Mounting pg. 2</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 3</i>

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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%) <i>Driver pg. 4</i>	1 - Single Circuit E - Emergency (entire fixture) <i>Circuiting pg. 3</i>	0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD IILL - Iota 10W, Integral 1PLL - Bodine 10W Integral <i>Battery and Emergency pg. 4</i>	W - White <i>Finish pg. 4</i>

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Fixture Options ⁵	CONTROLS
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 <i>America Buy America Compliant</i> <i>Fixture Options pg. 4</i>	MOD - Mod options available <i>Controls pg. 4</i>

¹When 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 90CRI, High Output 2700-6500K. See output charts for more information. Tunable White option requires driver option **FSD** which provides separate 0-10v control leads for Intensity and CCT.

³Tunable White (TW) option only available with Universal (U), 120V (1) or 277V (2) options. ⁴Consult factory for Emergency (E) options with Tunable White (TW) option. ⁵Compliance is configuration dependent; consult factory for confirmation.

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.



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

CL	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
CLTW	Specify desired lumens for Tunable White (i.e. CLTW3200)	Specify lumens between Tunable White offering listed below. Lumens are specified at 4000K CCT setpoint.

90 CRI

Color	Lumens	Shielding	
		AR	Satine Lens
927LO	2700K	2487	19.2
		4044	33.8
		5532	48.1
930LO	3000K	2602	19.3
930MO		4223	33.8
930HO		5782	48.1
935LO	3500K	2549	19.2
935MO		4135	33.6
935HO		5694	48.2
940LO	4000K	2633	19.1
940MO		4271	33.5
940HO		5889	48.1

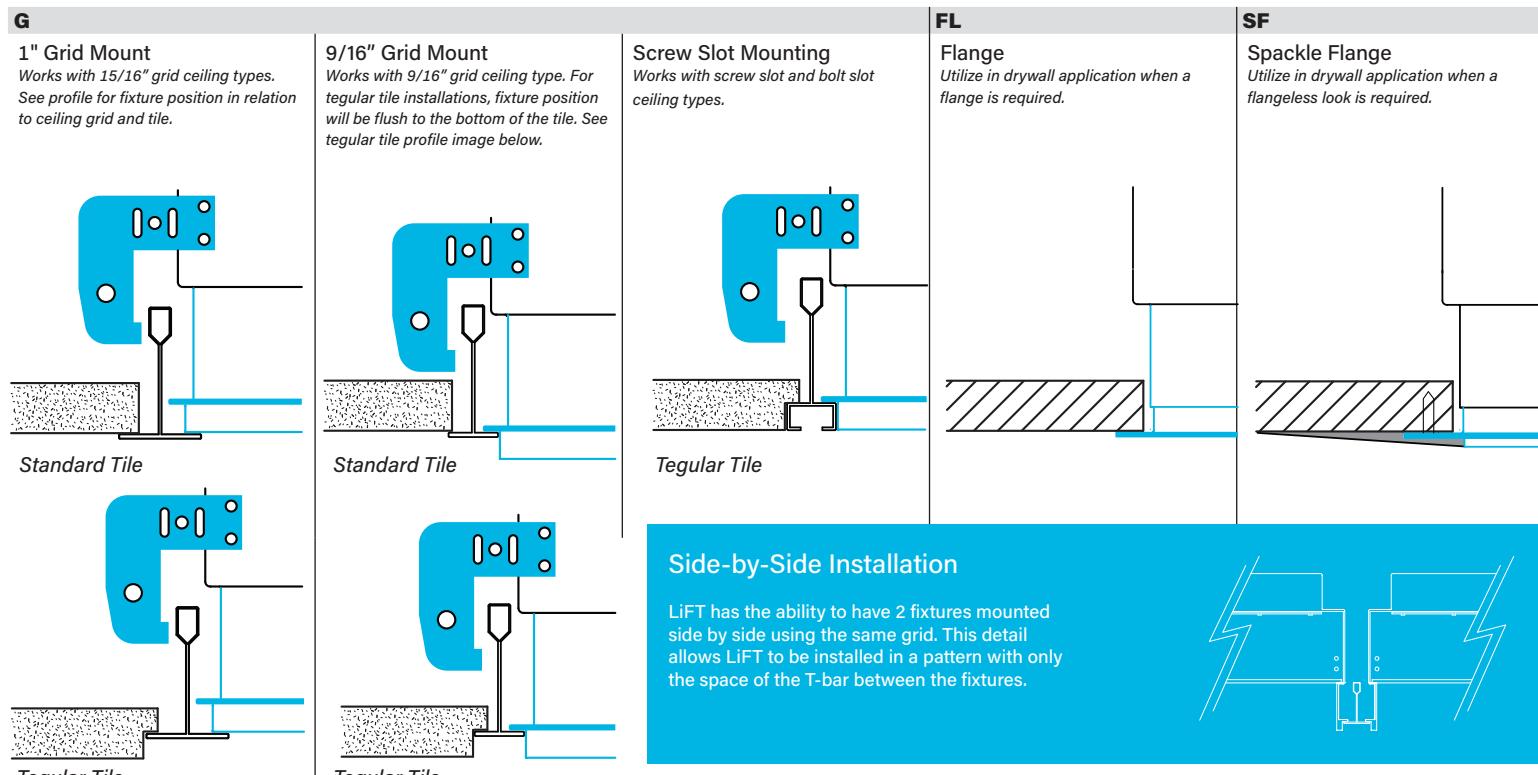
2 CH Tunable White (2700-6500K, 90CRI)

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

Mounting

- 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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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
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Alternate Drivers

PS1	Signify Advance Xitanium Step Dimming 50%/100%
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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



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	Iota ETS-DR, Emergency Control Device, UNV
GB	Bodine GTD, Emergency Control Device, 120v or 277v
1ILL	Iota 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	Ordering Code: 1-1FSB
▪ Emergency circuit only, 10w integral battery	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
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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

MOD	Lutron Athena Connected
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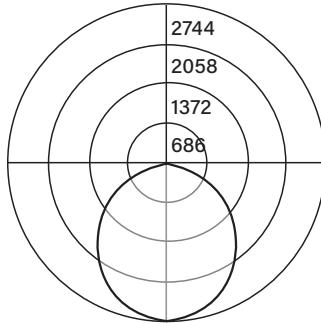
Ordering Code AWNR	Required Driver OD1, PR1, OL5, PL5
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Photometrics

Satine Lens

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



Candela Distribution

Vert Angle	Horizontal 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
80	264	255	252	255	264
85	98	96	97	97	100
90	4	4	4	4	3

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

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 retention wires.

White LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. Lumenaire 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. MacAdams 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.