

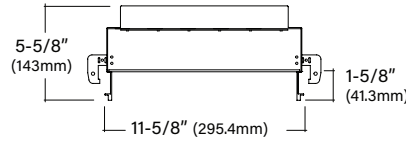


*Shown with GF mounting option



LiFT LF11

1x1 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 #: LF11-AR-930HO-GF-U-FSD-1-0-W



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SHIELDING	SOURCE ^{1,2}	MOUNTING	VOLTAGE ³
AR - Regress Satine Lens <i>Shielding pg. 2</i>	927 _ _ - 90CRI, 2700K 930 _ _ - 90CRI, 3000K 935 _ _ - 90CRI, 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 GF - Grid Ceiling with Flange FL - Flanged SF - Spackle Flange <i>Mounting pg. 3</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, standard) 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) <i>Driver pg. 4</i>	1 - Single Circuit E - Emergency (entire fixture) <i>Circuiting pg. 4</i>	0 - None GI - Iota ETS DR 1ICL - Iota 7w 1PCL - Bodine 6w <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 America Buy America Compliant <i>Fixture Options pg. 4</i>	MOD - Mod options available <i>Controls pg. 5</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 CRI, CCT and desired lumens (i.e. CL9352000)	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
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	
			A Satine Lens Watts	LPW
927LO	2700K	552	5.2	107
927MO		897	8.6	104
927HO		1228	12.3	100
930LO	3000K	577	5.2	111
930MO		937	8.6	109
930HO		1283	12.3	105
935LO	3500K	566	5.2	109
935MO		918	8.5	108
935HO		1264	12.3	103
940LO	4000K	584	5.2	113
940MO		948	8.5	111
940HO		1307	12.3	107

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

TWLO	2700 - 6500K	550	5.9	93
TWMO		950	10.1	94
TWHO		1200	13.8	87



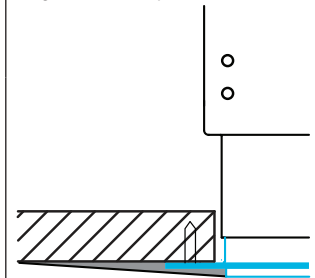
Mounting

- 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 10 lbs
- Refer to installation instructions during installation at the job site
- Approved for dry/damp location unless otherwise noted

G		GF		FL
1" Grid Mount <i>Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.</i>	9/16" Grid Mount <i>Works with 9/16" grid ceiling type. For tegular tile installations, fixture position will be flush to the bottom of the tile.</i>	Screw Slot Mounting <i>Works with screw slot and bolt slot ceiling types.</i>	1/2" Flange <i>Utilize for Center of Tile Mounting. Fixture provided with Grid Spanning Bracket.</i>	Flange <i>Utilize in drywall application when a flange is required.</i>
Standard Tile	Standard Tile	Tegular Tile	Standard Tile	
Tegular Tile	Tegular Tile		Tegular Tile	

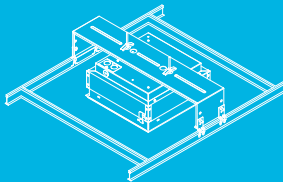
SF

Spackle Flange
Utilize in drywall application when a flangeless look is required.



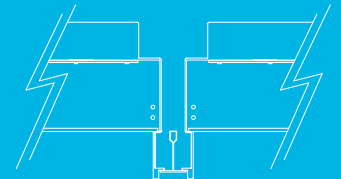
G vs. GF Installation

LiFT 1x1 can be ordered as either Grid Ceiling Flange (G) or 1/2" Flange (GF). The 1/2" flange (GF) is for mounting the fixture in the center of a tile. The grid ceiling flange (G) is for if you are making a pattern with LiFT and would want to mount this off center. The GF mounting option comes with a grid spanning bracket (as show to the side) that will hold the fixture in the center of the tile.



Side-by-Side Installation

LiFT has the ability to have 2 fixtures mounted side by side using the same grid. This detail allows LiFT to be installed in a pattern with only the space of the T-bar between the fixtures.



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 downloads page 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
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, LDE1
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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
- For more Battery options, see Pinnacle Resource Guide on downloads page at pinnacle-ltg.com

0	No Battery
GI	Iota ETS-DR, Emergency Control Device, UNV
1ICL	Iota 7w, Integral Lithium, Self Testing
1PCL	Bodine 6w, Integral Lithium, Self Testing

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 7 (watts) x 107 (LPW) = 749 battery lumen output

Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery Ordering Code: 1-1PCL
- Emergency circuit only, 10w integral battery Ordering Code: E-1ICL

Finish

- Powder-coat white painted finish on exposed trim

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

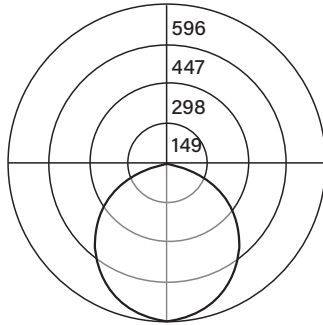
Ordering Code
AWNRR

Required Driver
OD1, PR1, OL5, PL5

Photometrics

Satine Lens

Test # KPL2015-106
Catalog # LF11-AR-940HO
Lumens 1550 lm
Watts 15 watts
Efficacy 103 LPW



Candela Distribution

Vert Angle	0	22.5	45	67.5	90
0	596	596	596	596	596
5	589	589	588	588	588
10	577	575	574	575	576
15	560	557	555	556	559
20	538	534	532	533	537
25	511	507	504	506	511
30	481	475	472	475	480
35	447	440	437	440	446
40	409	402	399	402	409
45	369	361	358	361	369
50	326	318	315	318	326
55	280	273	270	273	280
60	233	227	224	226	233
65	186	180	177	180	186
70	139	134	132	134	139
75	94	90	88	90	94
80	51	49	49	49	50
85	19	19	19	19	19
90	1	1	1	1	1

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6696	6497	6695
55	6277	6038	6268
65	5649	5391	5655
75	4674	4389	4664
85	2774	2776	2795

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: LiFT 1x1 Recessed does not fit into standard 1' x 1' grid spacing, see installs for grid mounting details. 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%. 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 = 53,200 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 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 115°F/46°C. 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. For more Battery options, see Pinnacle Resource Guide on downloads page 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: 10 lbs maximum.

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