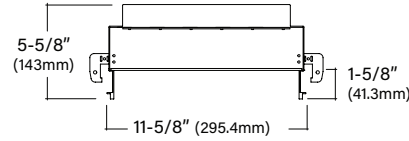


# LiFT LF14

## 1x4 Direct Recessed Architectural Square



### Key Features

- Formed 20 gauge cold rolled steel housing
- Highly reflective die-formed white painted reflector
- Fabricated, captive lens with 3 lens positions
- 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
- Maximum fixture weight is 27 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: LF14-AR-930HO-G-U-FSD-1-0-W

**LF14** - **AR** - **SHIELDING** - **CRI, CCT & OUTPUT** - **MOUNTING** - **VOLTAGE** - **DRIVER** - **CIRCUITING** - **BATTERY & EMERGENCY** - **FINISH** - **FIXTURE OPTIONS** - **CONTROLS**

<b>AR</b>	-----	-----	-
<b>SHIELDING</b>	<b>SOURCE<sup>1,2</sup></b>	<b>MOUNTING</b>	<b>VOLTAGE<sup>3</sup></b>
<b>AR</b> - Regressed Satine Lens	<b>927</b> __ - 90 CRI, 2700K <b>930</b> __ - 90 CRI, 3000K <b>935</b> __ - 90 CRI, 3500K <b>940</b> __ - 90CRI, 4000K <b>TW</b> __ - 2CH Tunable White (2700-6500K, 90CRI) <b>CL</b> _____ - Custom Lumens <b>CW</b> _____ - Custom Watts <i>Source pg. 2</i>	<b>G</b> - Grid Ceiling <i>(Fixture does not fit in standard grid spacing)</i> <b>FL</b> - Flanged <b>SF</b> - Spackle Flange <i>Mounting pg. 2</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 3</i>
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<b>DRIVER</b>	<b>CIRCUITING<sup>4</sup></b>	<b>BATTERY &amp; EMERGENCY</b>	<b>FINISH</b>
<b>FSD</b> - Factory Select Driver (1%, 0-10v) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <b>OL4</b> - eldoLED Optotronic 347v (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0.1%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <b>E</b> - Emergency ( <i>entire fixture</i> ) <i>Circuiting pg. 3</i>	<b>0</b> - None <b>FSB</b> - Factory Select Battery <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>1ILL</b> - Iota 10W, Integral <b>1PLL</b> - Bodine 10W Integral <i>Battery and Emergency pg. 4</i>	<b>W</b> - White <i>Finish pg. 4</i>
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<b>FIXTURE OPTIONS</b>	<b>CONTROLS</b>		
<b>CP</b> - Chicago Plenum <b>AM</b> - Antimicrobial Paint <b>FW6</b> - 6' Flex Whip <b>DSP</b> - Customer Supplied Battery/Driver/ Sensor <b>GMF</b> - Slow Blow Fusing <i>Fixture Options pg. 4</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.		

<sup>1</sup>When specifying SOURCE the ending \_\_ are for specifying output, example **HO** - High Output. See output charts for more information. <sup>2</sup>When 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. <sup>3</sup>Tunable White (TW) option only available with Universal (U), 120V (1) or 277V (2) options. <sup>4</sup>Consult factory for Emergency (E) options with Tunable White (TW) option.

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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

<b>CL</b> _____	Specify CCT and desired lumens (i.e. CL9352000)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CCT and desired wattage (i.e. CW94020)	Specify watts between standard offering listed below
<b>CLTW</b> _____	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 Watts	LPW
<b>927LO</b>	2700K	2388	19.2	124
<b>927MO</b>		3882	33.8	115
<b>927HO</b>		5311	48.1	110
<b>930LO</b>	3000K	2498	19.3	129
<b>930MO</b>		4055	33.8	120
<b>930HO</b>		5552	48.1	115
<b>935LO</b>	3500K	2447	19.2	127
<b>935MO</b>		3970	33.6	118
<b>935HO</b>		5467	48.2	113
<b>940LO</b>	4000K	2528	19.1	132
<b>940MO</b>		4101	33.5	122
<b>940HO</b>		5654	48.1	118

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

<b>TWLO</b>	2700 - 6500K	2400	20.5	117
<b>TWMO</b>		4000	35.3	113
<b>TWHO</b>		5300	48.0	110

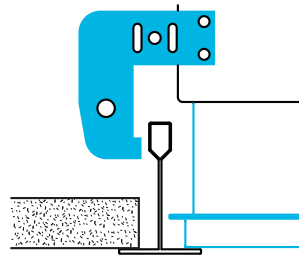
## Mounting

- 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

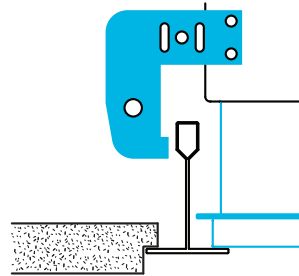
### G

#### 1" Grid Mount

Does not fit into standard 1' grid spacing, see installs for grid mounting details.  
Works with 15/16" grid ceiling types.  
See profile for fixture position in relation to ceiling grid and tile.



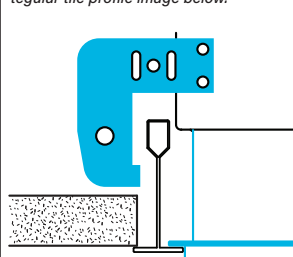
Standard Tile



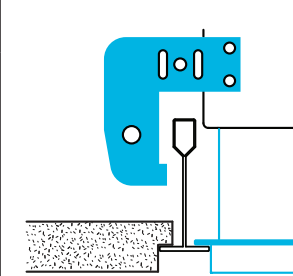
Tegular Tile

#### 9/16" Grid Mount

Does not fit into standard 1' grid spacing, see installs for grid mounting details.  
Works with 9/16" grid ceiling type. For tegular tile installations, fixture position will be flush to the bottom of the tile. See tegular tile profile image below.



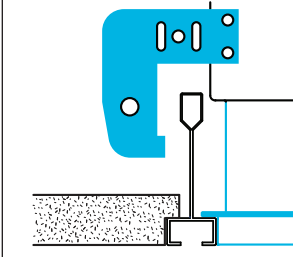
Standard Tile



Tegular Tile

#### Screw Slot Mounting

Does not fit into standard 1' grid spacing, see installs for grid mounting details.  
Works with screw slot and bolt slot ceiling types.

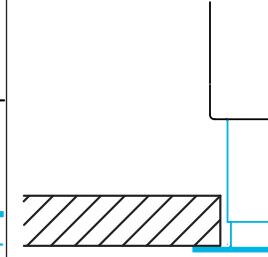


Tegular Tile

### FL

#### Flange

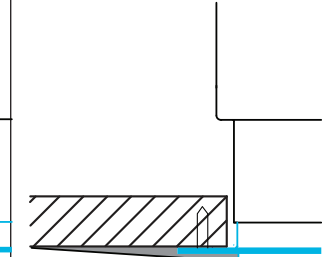
Utilize in drywall application when a flange is required.



### SF

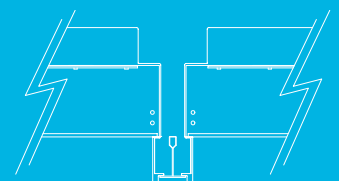
#### Spackle Flange

Utilize in drywall application when a flangeless look is required.



## 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.



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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

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	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	
<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear
DALI Drivers	
<b>EE3</b>	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL
Lutron Drivers	
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Drivers	
<b>PS1</b>	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

<b>1</b>	Single Circuit
<b>E</b>	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](http://pinnacle-ltg.com)

<b>0</b>	No Battery
<b>FSB</b>	Factory Select Battery (10w option)
<b>FSBST</b>	Factory Select Battery (10w, Self Testing)
<b>FSG</b>	Factory Select ALCR Emergency Control Device, UNV
<b>GI</b>	Iota ETS-DR, Emergency Control Device, UNV
<b>GB</b>	Bodine GTD, Emergency Control Device, 120v or 277v
<b>1ILL</b>	Iota 10w, Integral Lithium, Self Testing
<b>1PLL</b>	Bodine 10w, Integral Lithium, Self Testing

### For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 124 (LPW) = 1,240 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

<b>W</b>	White
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## Fixture Options

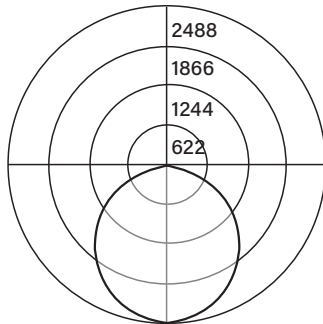
- Additional options to enhance the fixture and finish of the product

<b>CP</b>	Chicago Plenum
<b>AM</b>	Antimicrobial Paint
<b>FW6</b>	Flex Whip 6'
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>GMF</b>	Internal Slow Blow Fuse

## Photometrics

### Satine Lens

Test #	KPL2015-110
Catalog #	LF14-AR-940HO
Lumens	6792 lm
Watts	58 watts
Efficacy	117 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	2121	2121	2121	2121	2121
5	2096	2103	2114	2116	2115
10	2065	2070	2075	2072	2067
15	2017	2017	2013	2008	2003
20	1952	1946	1935	1928	1923
25	1871	1858	1842	1832	1827
30	1775	1755	1735	1722	1716
35	1664	1638	1613	1599	1593
40	1538	1508	1480	1463	1458
45	1400	1367	1335	1317	1312
50	1251	1216	1182	1163	1157
55	1093	1057	1020	1000	994
60	925	887	850	831	824
65	750	714	679	660	654
70	571	538	506	489	485
75	394	369	342	327	322
80	232	215	194	176	169
85	102	86	69	68	68
90	10	10	10	10	11

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6951	6628	6513
55	6687	6244	6086
65	6229	5637	5432
75	5342	4643	4371
85	4120	2780	2719

For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

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## 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 1x4 Recessed does not fit into standard 1' grid spacing, see installs for grid mounting details. 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%. 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 = 53,100 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at [pinnacle-ltg.com](http://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 89°F/27°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 to fixture. For more Battery options, see Pinnacle Resource Guide on download pages at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**Finish:** Powder-coat white painted finish on exposed trim.

**Controls:** Mod options available, consult with factory.

**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:** 27 lbs maximum.

**Buy American Act Compliant**

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