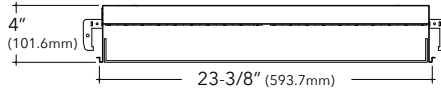


# LiFT LF22D

2x2 Direct Recessed Architectural Square  
with Sound Absorption



## Key Features

- Formed 20 gauge cold rolled steel housing
- Highly reflective die-formed white painted reflector
- Fabricated, captive lens with 3 lens positions
- Sound Absorption available in specific configurations
- 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 25 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant
- Apparent Noise Reduction Coefficient (NRC) is up to 1.7



Example Part #: LF22D-A-830HO-G-U-PL2-1-0-W



SHIELDING <sup>1</sup>	SOURCE <sup>2</sup>	MOUNTING	VOLTAGE
<b>A</b> - Satine Lens <b>AR</b> - Regress Satine Lens <b>AL</b> - Drop Satine Lens <b>ASF</b> - Acoustic Solution Flush <i>(use P__ to specify color)</i> <b>ASR</b> - Acoustic Solution Regress <i>(use P__ to specify color)</i> <i>Shielding pg. 2</i>	<b>_27</b> - 2700K <b>_30</b> - 3000K <b>_35</b> - 3500K <b>_40</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Source pg. 3</i>	<b>G</b> - Grid Ceiling <b>FL</b> - Flanged <b>SF</b> - Spackle Flange <i>Mounting pg. 4</i>	<b>U</b> - Universal <i>(120 thru 277V)</i> <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Voltage pg. 4</i>
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
<b>PL2</b> - Advance Xitanium <i>(1%, 0-10v)</i> <b>PS1</b> - Advance Xitanium <i>(50%/100%)</i> <b>EE1</b> - eldoLED ECOdrive <i>(1%, 0-10v)</i> <b>ES1</b> - eldoLED SOLOdrive <i>(0%, 0-10v)</i> <b>LH1</b> - Lutron Hi-lume <i>(1%, EcoSystem)</i> <b>L51</b> - Lutron 5-Series <i>(5%, EcoSystem)</i> <b>OL2</b> - Osram Optotronic <i>(1%, 0-10v)</i> <b>OL4</b> - Osram Optotronic 347V <i>(1%, 0-10v)</i> <b>ND</b> - Non-Dimmtoing <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Driver pg. 4</i>	<b>1</b> - Single Circuit <b>E</b> - Emergency <i>(entire fixture)</i> <b>N</b> - Night Light <i>(entire fixture)</i> <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Circuiting pg. 5</i>	<b>0</b> - None <b>1P</b> - Bodine 10W Integral <b>1I</b> - Iota 10W <b>1IC</b> - Iota 10W, Integral <i>(CEC Listed)</i> <b>1G</b> - Bodine GTD <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Battery and Emergency pg. 5</i>	<b>W</b> - White <i>Finish pg. 5</i>
FIXTURE OPTIONS	CONTROLS <sup>3</sup>		
<b>CP</b> - Chicago Plenum <b>AM</b> - Antimicrobial Paint <b>FW6</b> - 6' Flex Whip <b>GMF</b> - Slow Blow Fusing <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Fixture Options pg. 5</i>	<b>DLMFC</b> - Wattstopper DLM <i>(wired)</i> <b>ENLI</b> - Enlighted IOT <i>(remote)</i> <b>ENLC</b> - Enlighted Connected Lighting <i>(remote)</i> <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Controls pg. 5</i>		

<sup>1</sup>When specifying a fixture with only Sound Absorption (no lit components), use NA for the following sections of the part number: SOURCE, VOLTAGE, DRIVER, CIRCUITING, BATTERY & EMERGENCY, or CONTROLS.  
<sup>2</sup>When specifying SOURCE the first \_\_ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending \_\_ are for specifying output, example **HO** - High Output. See output charts for more information. <sup>3</sup>Controls can only be used with Single Circuit (1) or Emergency Circuit (E), cannot be used with any battery options. See Controls chart on page 5 for driver options and more information.

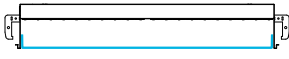
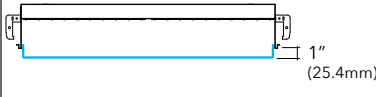
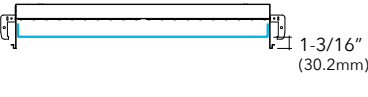
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## Shielding

- Fabricated, captive lens with 3 lens positions
- Highly reflective white reflectors maintain uniform lens brightness

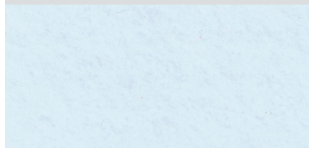
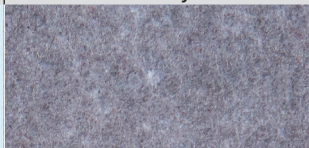
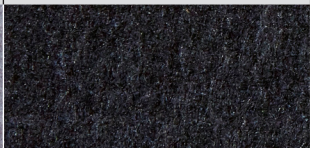


### Ordering Code

<b>A or ASF</b>	<b>AL</b>	<b>AR or ASR</b>
Flush Satine Lens or Acoustic Solution	Drop Satine Lens	Regress Satine Lens or Acoustic Solution
		

## 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, SAF04 for Direct Sound Absorption, Flush Mounting, White 04.

### Standard Colors

<b>P04</b> - White	<b>P12</b> - Medium Grey	<b>P27</b> - Black	<b>P28</b> - Dark Grey	<b>P33</b> - Royal Blue
				

### Secondary Colors - May increase lead-time for order. Consult Factory.

<b>P02</b> - Yellow	<b>P03</b> - Orange	<b>P05</b> - Light Tan	<b>P06</b> - Carmel	<b>P10</b> - Silver	<b>P11</b> - Light Grey	<b>P13</b> - Granny Smith
						
<b>P14</b> - Lime	<b>P16</b> - Dark Blue	<b>P17</b> - Red	<b>P18</b> - Dark Red	<b>P19</b> - Purple	<b>P22</b> - Sky Blue	<b>P23</b> - Deep Blue
						
<b>P25</b> - Grey	<b>P26</b> - Heathered Grey	<b>P34</b> - Teal	<b>P36</b> - Dark Silver	<b>P37</b> - Blue	<b>PCC</b> - Custom Color	
					Please note there is a minimum order quantity for custom matching. Consult factory for order quantity, price and lead-time.	



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	Lumens	Shielding <b>A, AL, AR</b> Satine Lens Watts	LPW
<b>830LO</b>	3000K	2414	20.0	121
<b>830MO</b>	3000K	3886	31.9	122
<b>830HO</b>	3000K	5317	45.3	117
<b>835LO</b>	3500K	2500	20.0	125
<b>835MO</b>	3500K	4074	31.9	128
<b>835HO</b>	3500K	5648	45.3	125
<b>840LO</b>	4000K	2619	20.1	130
<b>840MO</b>	4000K	4224	32.1	132
<b>840HO</b>	4000K	5816	45.7	127

90 CRI

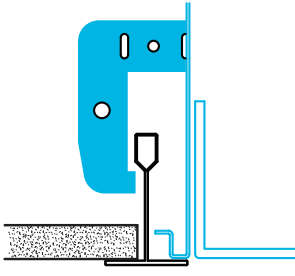
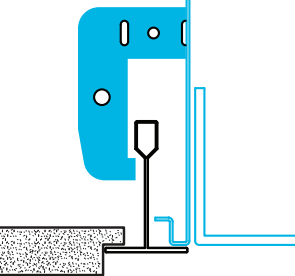
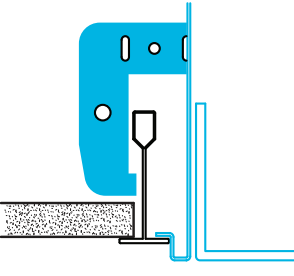
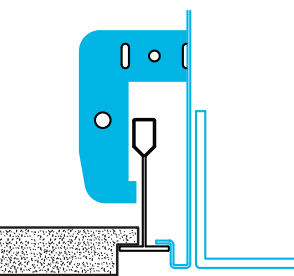
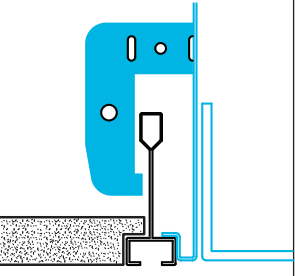
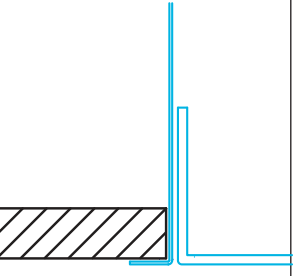
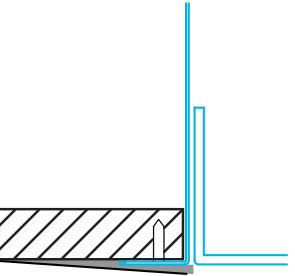
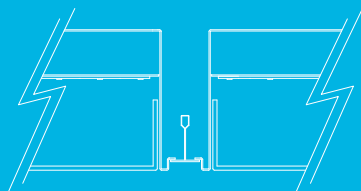
<b>927LO</b>	2700K	1960	20.1	98
<b>927MO</b>	2700K	3160	32.0	99
<b>927HO</b>	2700K	4338	45.5	95
<b>930LO</b>	3000K	2090	20.1	104
<b>930MO</b>	3000K	3374	32.0	105
<b>930HO</b>	3000K	4640	45.5	102
<b>935LO</b>	3500K	2090	20.1	104
<b>935MO</b>	3500K	3374	32.0	105
<b>935HO</b>	3500K	4640	45.5	102
<b>940LO</b>	4000K	2201	20.0	110
<b>940MO</b>	4000K	3544	32.0	111
<b>940HO</b>	4000K	4860	45.6	107

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.



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

G		FL		SF
<p><b>1" Grid Mount</b> Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.</p>  <p>Standard Tile</p>  <p>Tegular Tile</p>	<p><b>9/16" Grid Mount</b> 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.</p>  <p>Standard Tile</p>  <p>Tegular Tile</p>	<p><b>Screw Slot Mounting</b> Works with screw slot and bolt slot ceiling types.</p>  <p>Tegular Tile</p>	<p><b>Flange</b> Utilize in drywall application when a flange is required.</p> 	<p><b>Spackle Flange</b> Utilize in drywall application when a flangeless look is required.</p> 
<p><b>Side-by-Side Installation</b></p> <p>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.</p> 				

## Voltage

- Some LiFT configurations will not accommodate all voltage options; consult with factory

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt
<b>NA</b>	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 LiFT configurations will not accommodate all driver options; consult with factory

<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PS1</b>	Advance Xitanium Step Dimming 50%/100%
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0%, 0-10v Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0%, 0-10v Linear
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>L51</b>	Lutron 5-Series 5%, EcoSystem, LDE5
<b>OL2</b>	Osram Optotronic 1%, 0-10v
<b>OL4</b>	Osram Optotronic 347v 1%, 0-10v, requires 347v
<b>ND</b>	Non-Dimming
<b>NA</b>	Not Applicable (for Sound Absorption)

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## 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 (uses nIO EZ PH ER with NLIGHT)
<b>N</b>	Night Light Circuit only
<b>NA</b>	Not Applicable (for Sound Absorption)

## 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

<b>0</b>	No Battery
<b>1P</b>	Bodine 10w Integral CEC Listed
<b>1I</b>	10w Integral
<b>1IC</b>	10w Integral, CEC Listed
<b>1G</b>	Bodine GTD, Generator Transfer Device
<b>NA</b>	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: 1-1P
- Emergency circuit only, 10w integral battery      Ordering Code: E-1P

## Finish

- Powder-coat white painted finish on exposed trim

<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>GMF</b>	Internal Slow Blow Fuse
<b>NA</b>	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; commissioning 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
<b>DLMFC</b>	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	Any 0-10v	None
<b>ENLI</b>	Enlighted IOT	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt
<b>ENLC</b>	Enlighted Connected Lighting	CU-4E	Enlighted, Remote	Enlighted Cable	Any 0-10v	Not available with 347 volt
<b>NA</b>	Not Applicable (for Sound Absorption)					

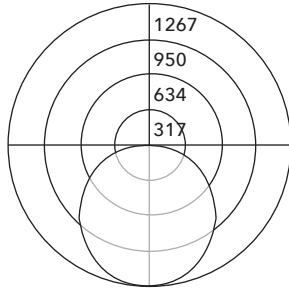




## Photometrics

### Satine Lens

Test #: ITL92358  
 Part #: LF22D-A-840  
 Total Lumens: 3652 lm  
 Total Watts: 27.6 W  
 Efficacy: 132 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1265	1265	1265	1265	1265
5	1262	1264	1265	1263	1263
10	1242	1246	1249	1250	1247
15	1213	1217	1219	1218	1215
20	1172	1177	1177	1177	1175
25	1122	1126	1127	1126	1125
30	1063	1066	1066	1067	1067
35	995	997	997	997	998
40	919	920	921	922	924
45	836	836	838	838	839
50	747	749	748	750	751
55	656	655	654	656	656
60	557	556	558	559	560
65	457	458	458	459	459
70	358	357	357	359	360
75	259	260	260	260	261
80	165	166	166	167	166
85	78	78	76	76	76
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3499	3507	3511
55	3385	3374	3385
65	3200	3207	3214
75	2961	2973	2984
85	2649	2581	2581

For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com). Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP 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 fabricated diffuse acrylic lens creating a fully luminous fixture.

**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 Acoustical Laboratories. For specific reports, contact Pinnacle directly.

**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. Maximum fixture weight is 25 lbs.

**LED:** 25°C 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 = 145,500 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](http://pinnacle-ltg.com).

**Color & Lumen Output:** Three lumen packages available. Low (LO), Middle (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) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some LiFT 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°C ambient operating conditions. For more driver options, see Pinnacle Resource Guide on download pages at [pinnacle-ltg.com](http://pinnacle-ltg.com). Some LiFT configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). 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:** DLM utilizes 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:** LiFT LED offered with a 5-year limited warranty. Covers LED, driver and fixture.