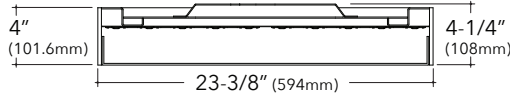


# LiFT LF22D

## 2x2 Direct Suspended Architectural Square with Acoustic Solutions



### Key Features

- Formed and welded extruded aluminum housing for seamless finish with 1/4" trim
- Aluminum top cover conceals all electrical components.
- Highly reflective die-formed white painted steel reflector
- Fabricated 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-AC448JB-U-PL2-1-0-W



SHIELDING <sup>1</sup>	SOURCE <sup>2</sup>	MOUNTING <sup>3</sup>	VOLTAGE
<b>A</b> - Flush Satine Lens <b>AL</b> - Drop Satine Lens <b>AR</b> - Regress 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>AS4</b> - 4 AC, Straight, JB or ST <b>AC4</b> - 4 AC, Center Mount, JB or ST <b>AH4</b> - 4 AC w/hub, to JB or ST <b>PP</b> - Pendant Pipe to JB or ST <b>PS</b> - Pendant Swivel to JB or ST <b>S</b> - Surface Mount <b>WA</b> - Wall Mount <i>Mounting pg. 3</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>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 Optotronics <i>(1%, 0-10v)</i> <b>OL4</b> - Osram Optotronics 347V <i>(1%, 0-10v)</i> <b>ND</b> - Non-Dimming <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. 4</i>	<b>0</b> - None <b>1PB</b> - Bodine 10W <b>NA</b> - Not Applicable <i>(for specifying SA fixtures)</i> <i>Battery &amp; Emergency pg. 4</i>	<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 4</i>

FIXTURE OPTIONS	CONTROLS <sup>4</sup>
<b>AM</b> - Antimicrobial Paint <b>GMF</b> - Slow Blow Fusing <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>

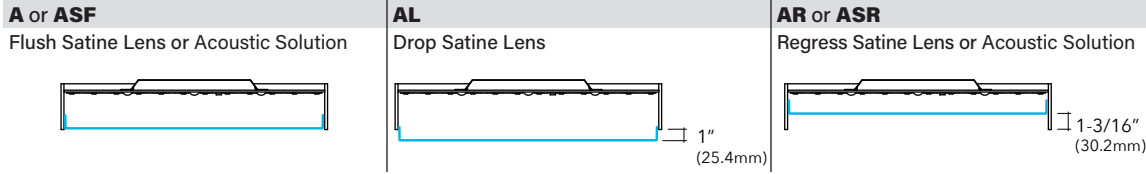
<sup>1</sup>If specifying an only Sound Absorption fixture you will need to specify NA in the following: SOURCE, VOLTAGE, DRIVER, CIRCUITING, BATTERY & EMERGENCY, or CONTROLS. <sup>2</sup>When specifying SOURCE the first \_ is for specifying either **8** - 80CRI, **9** - 90CRI. The ending \_\_ are for specifying output, example **HO** - High Output. See output charts for more information. <sup>3</sup>Example: AC4120JB, AC4 = 4 Aircraft Cables, 120 = 120" long cables, JB = connects to junction box. Standard AC cable lengths are 48" and 120", field adjustable. Standard pendant lengths are 12", 18", or 24". <sup>4</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.



## Shielding

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

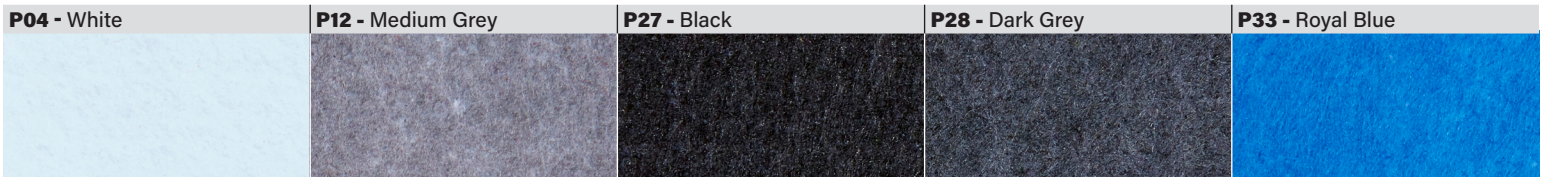
### Direct Shielding



### Acoustic Solutions

- 9mm PET Polyester Fiber acoustic panel
- Recyclable and contains up-to 90% post-consumer content
- Use SAFP\_\_ or SARP\_\_ for direct panels, use SAP\_\_ for indirect 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, SAFP04 for Direct Sound Absorption, Flush Mounting, White 04.
- If Acoustic Solutions are specified for the direct portion of the fixture and the indirect portion is non-illuminated, acoustic material will be applied to the indirect side of the fixture.

### Standard Colors



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





**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

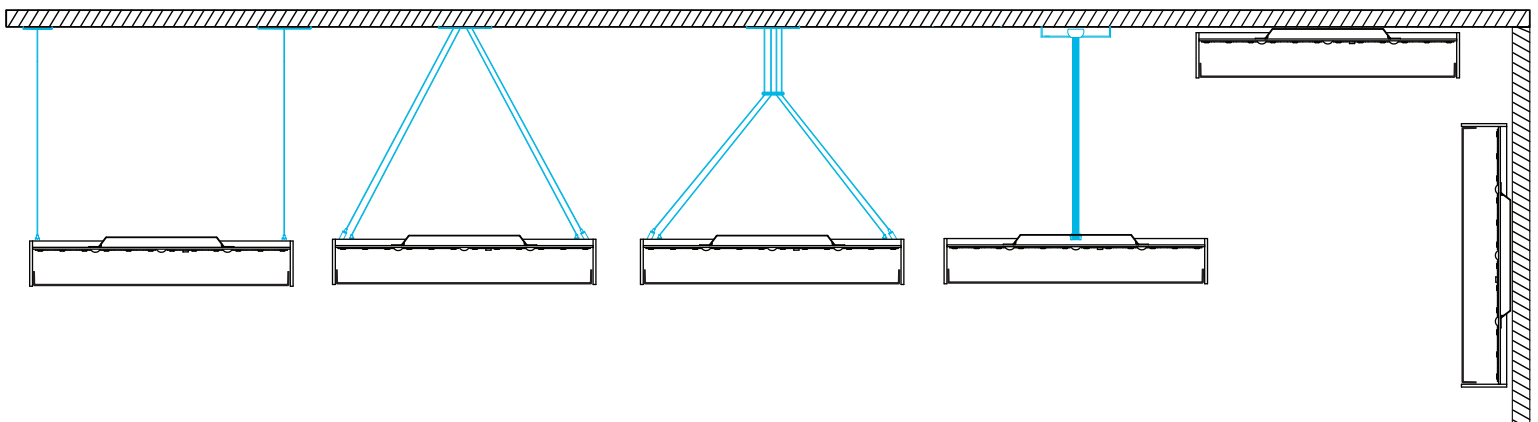
**90 CRI**

<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

**Mounting**

- Aircraft cables and pendants mount directly to a standard junction box or structure
- Canopies and pendants match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details.
- Must specify overall pendant length of 12", 18" or 24"
- Must specify cable length, either 48" or 120" standard, field adjustable
- Tie off fixture to structure with retention wires
- Maximum fixture weight is 25 lbs

<b>AS4_JB</b> 4 AC cables straight, fixture to J-Box	<b>AC4_JB</b> 4 AC cables, center mount, fixture to J-Box	<b>AH4_JB</b> 4 AC cables with hub, fixture to J-Box	<b>PP_JB</b> Pendant Pipe to J-Box	<b>S</b> Surface Mount Ceiling
			<b>PS_JB</b> Pendant Swivel to J-Box	
<b>AS4_ST</b> 4 AC cables straight, fixture to Structure	<b>AC4_ST</b> 4 AC cables, center mount, fixture to Structure	<b>AH4_ST</b> 4 AC cables with hub, fixture to Structure	<b>PP_ST</b> Pendant Pipe to Structure	<b>WA</b> Surface Mount Wall
			<b>PS_ST</b> Pendant Swivel to Structure	



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.



## 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>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)

## 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
<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>1PB</b>	Philips Bodine 10w Integral
<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

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

<b>W</b>	White (white cord/white canopy)
<b>S</b>	Metallic Silver (grey cord/silver canopy)
<b>BL</b>	Textured Black (black cord/black canopy)
<b>BR</b>	Bronze (white cord/bronze canopy)
<b>GR</b>	Graphite (white cord/graphite canopy)
<b>CC</b>	Custom Color (white cord/color match canopy)

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## Fixture Options

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

<b>AM</b>	Antimicrobial Paint
<b>GMF</b>	Internal Slow Blow Fuse
<b>NA</b>	Not Applicable (for Sound Absorption)

## Controls

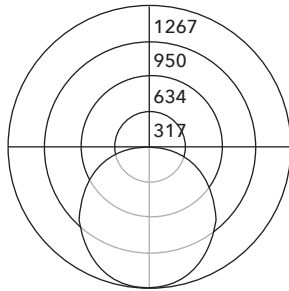
- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can 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-W  
 Total Lumens: 3652 Lumens  
 Total Watts: 27.6 watts  
 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 Acoustic. For specific reports, contact Pinnacle directly.

**Mounting:** Aircraft cable, Pendant, Surface and Wall mount available. Aircraft Cable and pendant supplied with 5" (127mm) canopies. Refer to installation instructions for appropriate ceiling detail. Maximum fixture weight is 25lbs.

**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 = 146,500 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.

**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. 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.

**Finish:** Standard powder-coat textured white, metallic silver, textured black, graphite, or bronze painted finish, consult factory for chip of standard paint finishes. Contact factory for additional custom color and finish options.

**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. 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.