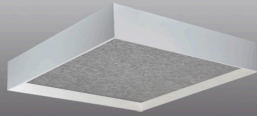


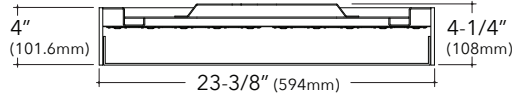


# LiFT LF22DI

## 2x2 Direct/Indirect Suspended Architectural Square with Acoustic Solutions



\*Shown with SARI2 option



### 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
- Sound Absorption available in specific configurations
- Fabricated 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 25 lbs
- Room-side maintenance for LED system
- Buy American Act compliant
- Apparent Noise Reduction Coefficient (NRC) is up to 1.7



Example Part #: LF22DI-A-830HO-830-AC448JB-U-PL2-1-0-W

LF22DI	DIRECT SHIELDING	INDIRECT SHIELDING	DIRECT SOURCE	INDIRECT SOURCE	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS
---	---	---	---	---	---	---	---	---	---	---	---	---
<b>DIRECT SHIELDING<sup>1</sup></b>		<b>INDIRECT SHIELDING<sup>1</sup></b>		<b>DIRECT SOURCE<sup>2</sup></b>		<b>INDIRECT SOURCE<sup>2</sup></b>						
<b>A</b> - Flat Satine Lens <b>AL</b> - Drop Satine Lens <b>AR</b> - Regress Satine Lens <b>ASF</b> - Acoustic Solution Flush <i>(use A__ to specify color)</i> <b>ASR</b> - Acoustic Solution Regress <i>(use A__ to specify color)</i> <i>Direct Shielding pg. 2</i>		<b>LO</b> - Clear Lens Overlay <b>AS</b> - Acoustic Solution <i>(use __ to specify color)</i> <i>Indirect 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 (for specifying SA fixtures) <i>Direct Source pg. 3</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 (for specifying SA fixtures) <i>Indirect Source pg. 4</i>						
---	---	---	---	---	---	---	---	---	---	---	---	---
<b>MOUNTING<sup>3</sup></b>		<b>VOLTAGE</b>		<b>DRIVER</b>		<b>CIRCUITING</b>						
<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 <i>Mounting pg. 4</i>		<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <b>NA</b> - Not Applicable (for specifying SA fixtures) <i>Voltage pg. 5</i>		<b>FSD</b> - Factory Select Driver (1%, 0-10v) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - Osram Optotronics (1%, 0-10v) <b>OL4</b> - Osram Optotronics 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>NA</b> - Not Applicable (for specifying SA fixtures) <i>Driver pg. 5</i>		<b>1</b> - Single Circuit <b>2</b> - Dual Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <b>NA</b> - Not Applicable (for specifying SA fixtures) <i>Circuiting pg. 5</i>						
---	---	---	---	---	---	---	---	---	---	---	---	---
<b>BATTERY &amp; EMERGENCY</b>		<b>FINISH</b>		<b>FIXTURE OPTIONS</b>		<b>CONTROLS<sup>4</sup></b>						
<b>0</b> - None <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>1PB</b> - Bodine 10W <b>NA</b> - Not Applicable (for specifying SA fixtures) <i>Battery &amp; Emergency pg. 5</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. 6</i>		<b>AM</b> - Antimicrobial Paint <b>GLR</b> - Fast Blow Fusing <b>GMF</b> - Slow Blow Fusing <b>DSP</b> - Customer Supplied Battery/Driver/Sensor <i>Fixture Options pg. 6</i>		<b>DLMFC</b> - Wattstopper DLM (wired) <b>ENLI</b> - Enlighted IOT (remote) <b>ENLC</b> - Enlighted Connected Lighting (remote) <b>NA</b> - Not Applicable (for specifying SA fixtures) <i>Controls pg. 6</i>						

<sup>1</sup>When specifying Sound Absorption either direct or indirect use NA for the corresponding SOURCE. If specifying an only Sound Absorption fixture you will need to specify NA in the following: DIRECT SOURCE, INDIRECT 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: AC448JB. AC4 = 4 Aircraft Cables, 48 = 48" long cables, JB = connects to junction box. Standard AC cable lengths are 48", 120", 240", or 350" 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 6 for driver options and more information.


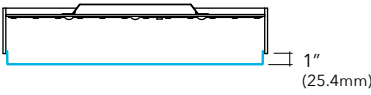
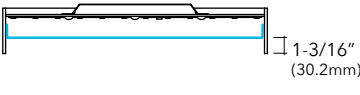

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## Shielding

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

### Direct Shielding

A or ASF	AL	AR or ASR	Indirect Shielding
Flush Satine Lens or Acoustic Solution	Drop Satine Lens	Regress Satine Lens or Acoustic Solution	LO or AS
			

## Acoustic Solutions

- 12mm PET Polyester Fiber acoustic panel
- Recyclable and contains up-to 90% post-consumer content
- Colors below are for representation purposes, color may vary from photograph, contact factory for sample
- Specify the color of the Acoustic panel with the numeric code below in the Acoustic Finish portion of the part number. For example, specify **A08** for Nickel

<b>A01</b> - Charcoal	<b>A02</b> - Black	<b>A03</b> - Azure	<b>A04</b> - Ruby	<b>A05</b> - Commander	<b>A06</b> - Coffee Bean
					
<b>A07</b> - Almond	<b>A08</b> - Nickel	<b>A09</b> - Stone	<b>A10</b> - Slate	<b>A11</b> - Pear	<b>A12</b> - Teal
					
<b>A13</b> - Warm White	<b>A14</b> - Nighttime Blue	<b>A15</b> - Tiger	<b>A16</b> - Cool Grey	<b>A17</b> - Grey Granite	<b>A18</b> - Dune
					
<b>A19</b> - Bone	<b>A20</b> - Bumblebee	<b>A21</b> - Gingerbread	<b>A22</b> - Raven	<b>A23</b> - Oregano	<b>A24</b> - Mushroom
					
<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.					



## Direct Source

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 90 CRI = R9≥50

## 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 A, AL, AR 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



## Indirect Source

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 90 CRI = R9≥50

## Sound Absorption

**NA** Not applicable (for Sound Absorption fixtures)

## Custom Output- Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL8352000)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW94020)	Specify watts between standard offering listed below

## 80 CRI

	Color	Lumens	LO Clear Lens Overlay Watts	LPW
<b>830LO</b>	3000K	2101	15.2	138
<b>830MO</b>	3000K	3089	22.1	140
<b>830HO</b>	3000K	4037	29.4	137
<b>835LO</b>	3500K	2188	15.2	144
<b>835MO</b>	3500K	3223	22.1	146
<b>835HO</b>	3500K	4219	29.4	144
<b>840LO</b>	4000K	2248	15.2	148
<b>840MO</b>	4000K	3305	22.1	150
<b>840HO</b>	4000K	4292	29.4	146

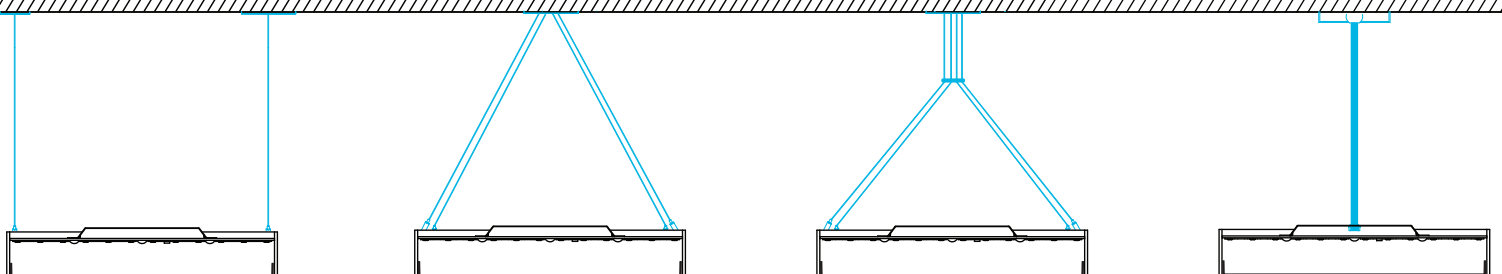
## 90 CRI

<b>927LO</b>	2700K	1740	15.2	114
<b>927MO</b>	2700K	2559	22.1	116
<b>927HO</b>	2700K	3323	29.4	113
<b>930LO</b>	3000K	1832	15.2	120
<b>930MO</b>	3000K	2694	22.1	122
<b>930HO</b>	3000K	3498	29.4	119
<b>935LO</b>	3500K	1832	15.2	120
<b>935MO</b>	3500K	2694	22.1	122
<b>935HO</b>	3500K	3498	29.4	119
<b>940LO</b>	4000K	1949	15.2	128
<b>940MO</b>	4000K	2866	22.1	130
<b>940HO</b>	4000K	3721	29.4	127

## 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>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>PS__ST</b> Pendant Swivel to Structure



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## 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 = 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>	Osram Optotronic, 1%, 0-10v
<b>OL4</b>	Osram 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 (logarithmic)
<b>ES3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>OD1</b>	Osram Optotronic 1%, DEXAL
<b>OD2</b>	Osram Optotronic 1%, DALI 2 Channel

### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>LH4</b>	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only

### Alternate Drivers

<b>OD1</b>	Osram Optotronic 1%, DEXAL
------------	----------------------------

## 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>2</b>	Dual 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>FSG</b>	Factory Select Automatic Load Control Relay (ALCR), UNV
<b>GI</b>	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
<b>GB</b>	Bodine GTD, Generator Transfer Device, 120v or 277v
<b>1IRC</b>	Iota 10w Remote
<b>1PRS</b>	Bodine 7w Remote, Self Testing
<b>1PB</b>	Bodine 10w Integral
<b>1PRD</b>	Bodine 10w Remote, Dual Flex

### 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

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

## 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>DSP</b>	Customer Supplied Battery/Driver/Sensor
<b>NA</b>	Not Applicable ( <i>for Sound Absorption</i> )

## 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	OL2, OL4	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)					

## 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 and Pendant mount available. Aircraft Cable and pendant supplied with 5" (127mm) canopies. Refer to installation instructions for appropriate ceiling detail. Maximum fixture weight is 25 lbs.

**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. 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. 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 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), dual circuit (2), 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:** UL and cUL 1598 listed. 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.