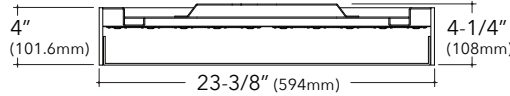


LiFT LF22DI

2x2 Direct/Indirect 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
- 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 |
|------------------|--------------------|---------------|-----------------|----------|---------|--------|------------|---------------------|--------|-----------------|----------|

| --- | ----- | ----- | ----- |
|---|--|---|--|
| DIRECT SHIELDING ¹ | INDIRECT SHIELDING ¹ | DIRECT SOURCE ² | INDIRECT SOURCE ² |
| A - Flat Satine Lens AL - Drop Satine Lens AR - Regress Satine Lens ASF - Acoustic Solution Flush <i>(use P__ to specify color)</i> ASR - Acoustic Solution Regress <i>(use P__ to specify color)</i> <i>Direct Shielding pg. 2</i> | LO - Clear Lens Overlay AS - Acoustic Solution <i>(use __ to specify color)</i> <i>Indirect Shielding pg. 2</i> | 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts NA - Not Applicable (for specifying SA fixtures) <i>Direct Source pg. 3</i> | 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts NA - Not Applicable (for specifying SA fixtures) <i>Indirect Source pg. 4</i> |
| --- | --- | --- | --- |
| MOUNTING ³ | VOLTAGE | DRIVER | CIRCUITING |
| AS4 - 4 AC, Straight, JB or ST AC4 - 4 AC, Center Mount, JB or ST AH4 - 4 AC w/hub, to JB or ST PP - Pendant Pipe to JB or ST PS - Pendant Swivel to JB or ST <i>Mounting pg. 4</i> | U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V NA - Not Applicable (for specifying SA fixtures) <i>Voltage pg. 5</i> | PL2 - Advance Xitanium (1%, 0-10v) EE1 - eldoLED ECoDrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) OL2 - Osram Optotronics (1%, 0-10v) OL4 - Osram Optotronics 347v (1%, 0-10v) ND - Non-Dimming NA - Not Applicable (for specifying SA fixtures) <i>Driver pg. 5</i> | 1 - Single Circuit 2 - Dual Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) NA - Not Applicable (for specifying SA fixtures) <i>Circuiting pg. 5</i> |
| --- | --- | --- | --- |
| BATTERY & EMERGENCY | FINISH | FIXTURE OPTIONS | CONTROLS ⁴ |
| 0 - None 1PB - Bodine 10W NA - Not Applicable (for specifying SA fixtures) <i>Battery & Emergency pg. 5</i> | W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i> | AM - Antimicrobial Paint GLR - Fast Blow Fusing GMF - Slow Blow Fusing <i>Fixture Options pg. 5</i> | DLMFC - Wattstopper DLM (wired) ENLI - Enlighted IOT (remote) ENLC - Enlighted Connected Lighting (remote) NA - Not Applicable (for specifying SA fixtures) <i>Controls pg. 6</i> |

¹When 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. ²When 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. ³Example: 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". ⁴Controls 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.

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.







Shielding

- Fabricated, captive lens with 3 lens positions

- Highly reflective white reflectors maintain uniform lens brightness

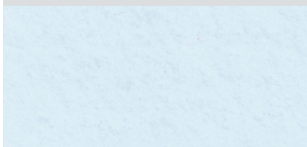
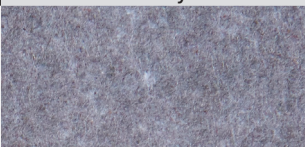
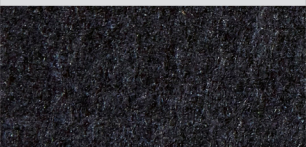
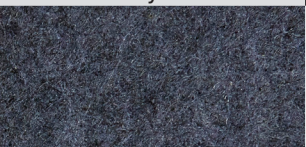

Direct Shielding

| 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 Clear Lens Overlay 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, 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

| P04 - White | P12 - Medium Grey | P27 - Black | P28 - Dark Grey | P33 - Royal Blue |
|--|---|---|--|---|
|  |  |  |  |  |

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

| P02 - Yellow | P03 - Orange | P05 - Light Tan | P06 - Carmel | P10 - Silver | P11 - Light Grey | P13 - Granny Smith |
|--|---|---|---|--|---|---|
|  |  |  |  |  |  |  |
| P14 - Lime | P16 - Dark Blue | P17 - Red | P18 - Dark Red | P19 - Purple | P22 - Sky Blue | P23 - Deep Blue |
|  |  |  |  |  |  |  |
| P25 - Grey | P26 - Heathered Grey | P34 - Teal | P36 - Dark Silver | P37 - Blue | PCC - 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
- 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 A, AL, AR Satine Lens Watts | LPW |
|--------------|-------|--------|--|-----|
| 830LO | 3000K | 2414 | 20.0 | 121 |
| 830MO | 3000K | 3886 | 31.9 | 122 |
| 830HO | 3000K | 5317 | 45.3 | 117 |
| 835LO | 3500K | 2500 | 20.0 | 125 |
| 835MO | 3500K | 4074 | 31.9 | 128 |
| 835HO | 3500K | 5648 | 45.3 | 125 |
| 840LO | 4000K | 2619 | 20.1 | 130 |
| 840MO | 4000K | 4224 | 32.1 | 132 |
| 840HO | 4000K | 5816 | 45.7 | 127 |

90 CRI

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



Indirect Source

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

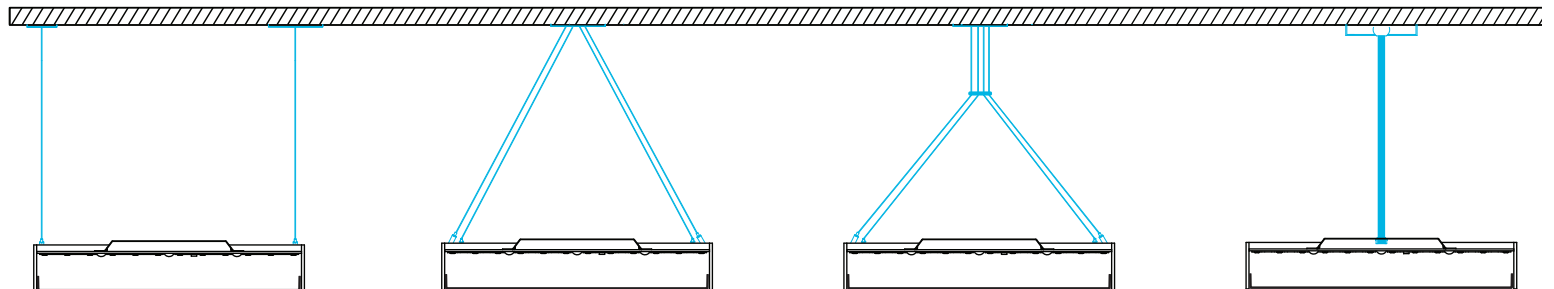
90 CRI

| | | | | |
|--------------|-------|------|------|-----|
| 927LO | 2700K | 1740 | 15.2 | 114 |
| 927MO | 2700K | 2559 | 22.1 | 116 |
| 927HO | 2700K | 3323 | 29.4 | 113 |
| 930LO | 3000K | 1832 | 15.2 | 120 |
| 930MO | 3000K | 2694 | 22.1 | 122 |
| 930HO | 3000K | 3498 | 29.4 | 119 |
| 935LO | 3500K | 1832 | 15.2 | 120 |
| 935MO | 3500K | 2694 | 22.1 | 122 |
| 935HO | 3500K | 3498 | 29.4 | 119 |
| 940LO | 4000K | 1949 | 15.2 | 128 |
| 940MO | 4000K | 2866 | 22.1 | 130 |
| 940HO | 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

| | | | |
|--|---|--|--|
| AS4__JB 4 AC cables straight, fixture to J-Box | AC4__JB 4 AC cables, center mount, fixture to J-Box | AH4__JB 4 AC cables with hub, fixture to J-Box | PP__JB Pendant Pipe to J-Box |
| AS4__ST 4 AC cables straight, fixture to Structure | AC4__ST 4 AC cables, center mount, fixture to Structure | AH4__ST 4 AC cables with hub, fixture to Structure | PS__JB Pendant Swivel to J-Box |
| | | | PP__ST Pendant Pipe to Structure |
| | | | PS__ST Pendant Swivel to Structure |



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Voltage

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

| | |
|-----------|---------------------------------------|
| U | Universal |
| 1 | 120 volt |
| 2 | 277 volt |
| 3 | 347 volt |
| NA | 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

| | |
|------------|---|
| PL2 | Advance Xitanium 1%, 0-10v |
| EE1 | eldoLED ECOdrive 1%, 0-10v Logarithmic |
| EE2 | eldoLED ECOdrive 1%, 0-10v Linear |
| ES1 | eldoLED SOLOdrive 0%, 0-10v Logarithmic |
| ES2 | eldoLED SOLOdrive 0%, 0-10v Linear |
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
| OL2 | Osram Optotronic 1%, 0-10v |
| OL4 | Osram Optotronic 347v 1%, 0-10v, requires 347v |
| ND | Non-Dimming |
| NA | Not Applicable (for Sound Absorption) |

Circuiting

- Select fixture circuiting from options below
- Some LIFT configurations will not accommodate all circuiting options; consult with factory

| | |
|-----------|--|
| 1 | Single Circuit |
| 2 | Dual Circuit |
| E | Emergency Circuit only (uses nIO EZ PH ER with NLIGHT) |
| N | Night Light Circuit only |
| NA | 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

| | |
|------------|---------------------------------------|
| 0 | No Battery |
| 1PB | Philips Bodine 10w Integral |
| NA | 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

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

Fixture Options

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

| | |
|------------|---------------------------------------|
| AM | Antimicrobial Paint |
| GMF | Internal Slow Blow Fuse |
| NA | Not Applicable (for Sound Absorption) |

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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 |
|--------------|---------------------------------------|------------|-----------------------------------|-----------------------|-------------|-----------------------------|
| DLMFC | Legrand Wattstopper DLM | LMFC-011 | Digital Lighting Management (DLM) | Wired, two RJ45 ports | OL2, OL4 | None |
| ENLI | Enlighted IOT | CU-4E | Enlighted, Remote | Enlighted Cable | Any 0-10v | Not available with 347 volt |
| ENLC | Enlighted Connected Lighting | CU-4E | Enlighted, Remote | Enlighted Cable | Any 0-10v | Not available with 347 volt |
| NA | 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%. 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), 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: 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.