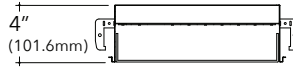


*Shown with SARI2 option



LiFT LF12D

1x2 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 15 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant
- Apparent Noise Reduction Coefficient (NRC) is up to 1.6



Example Part #: LF12D-A-830HO-G-U-PL2-1-0-W

LF12D - SHIELDING - CRI, CCT & OUTPUT - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

| --- | --- | --- | --- |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHIELDING ¹ | SOURCE ² | MOUNTING | VOLTAGE |
| A - Flush Satine Lens AL - Drop Satine Lens AR - Regress Satine Lens ASF - Acoustic Solution Flush <i>(use A__ to specify color)</i> ASR - Acoustic Solution Regress <i>(use A__ to specify color)</i> <i>Shielding pg. 2</i> | 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Source pg. 3</i> | G - Grid Ceiling <i>(Fixture does not fit in standard grid spacing)</i> FL - Flanged SF - Spackle Flange <i>Mounting pg. 4</i> | U - Universal <i>(120 thru 277V)</i> 1 - 120V 2 - 277V 3 - 347V NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Voltage pg. 4</i> |
| --- | --- | --- | --- |
| DRIVER | CIRCUITING | BATTERY & EMERGENCY | FINISH |
| FSD - Factory Select Driver <i>(1%, 0-10v)</i> PL2 - Advance Xitanium <i>(1%, 0-10v)</i> PS1 - Advance Xitanium <i>(50%/100%)</i> EE1 - eldoLED ECOdrive <i>(1%, 0-10v)</i> ES1 - eldoLED SOLOdrive <i>(0.1%, 0-10v)</i> LH1 - Lutron Hi-lume <i>(1%, EcoSystem)</i> OL2 - Osram Optotronic <i>(1%, 0-10v)</i> OL4 - Osram Optotronic 347v <i>(1%, 0-10v)</i> NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Driver pg. 5</i> | 1 - Single Circuit E - Emergency <i>(entire fixture)</i> N - Night Light <i>(entire fixture)</i> NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Circuiting pg. 5</i> | 0 - None 1P - Bodine 10W Integral 1I - Iota 10W 1IC - Iota 10W, Integral <i>(CEC Listed)</i> 1G - Bodine GTD FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Battery and Emergency pg. 5</i> | W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i> |
| --- | --- | --- | --- |
| FIXTURE OPTIONS | CONTROLS ³ | | |
| CP - Chicago Plenum AM - Antimicrobial Paint FW6 - 6' Flex Whip GMF - Slow Blow Fusing DSP - Customer Supplied Battery/Driver/ Sensor NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Fixture Options pg. 6</i> | DLMFC - Wattstopper DLM <i>(wired)</i> ENLI - Enlighted IOT <i>(remote)</i> ENLC - Enlighted Connected Lighting <i>(remote)</i> NA - Not Applicable <i>(for specifying SA fixtures)</i> <i>Controls pg. 6</i> | | |

¹When 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.
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. ³Controls 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.

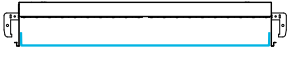
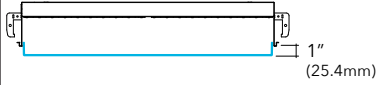
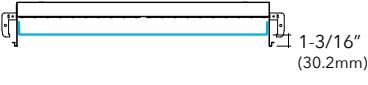
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Shielding

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

Ordering Code

| A or ASF | AL | AR or ASR |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Flush Satine Lens or Acoustic Solution | Drop Satine Lens | Regress Satine Lens or Acoustic Solution |
|  |  |  |

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

| | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| A01 - Charcoal | A02 - Black | A03 - Azure | A04 - Ruby | A05 - Commander | A06 - Coffee Bean |
|  |  |  |  |  |  |
| A07 - Almond | A08 - Nickel | A09 - Stone | A10 - Slate | A11 - Pear | A12 - Teal |
|  |  |  |  |  |  |
| A13 - Warm White | A14 - Nighttime Blue | A15 - Tiger | A16 - Cool Grey | A17 - Grey Granite | A18 - Dune |
|  |  |  |  |  |  |
| A19 - Bone | A20 - Bumblebee | A21 - Gingerbread | A22 - Raven | A23 - Oregano | A24 - Mushroom |
|  |  |  |  |  |  |
| PCC - 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
- 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 |
|--------------|-------|--------|------------------------------------------------|-----|
| 830LO | 3000K | 1105 | 10.7 | 103 |
| 830MO | 3000K | 1779 | 17.1 | 104 |
| 830HO | 3000K | 2434 | 23.9 | 102 |
| 835LO | 3500K | 1145 | 10.7 | 107 |
| 835MO | 3500K | 1865 | 17.1 | 109 |
| 835HO | 3500K | 2586 | 23.9 | 108 |
| 840LO | 4000K | 1199 | 10.8 | 111 |
| 840MO | 4000K | 1934 | 17.2 | 112 |
| 840HO | 4000K | 2663 | 24.1 | 110 |

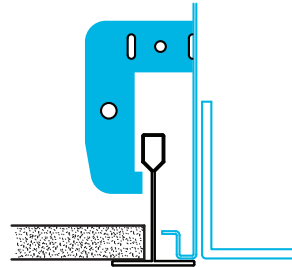
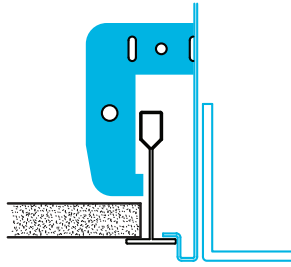
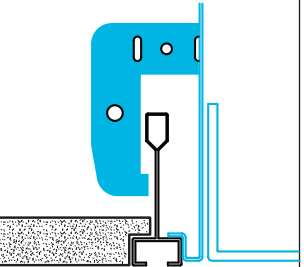
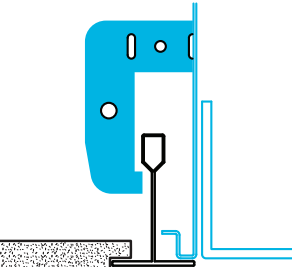
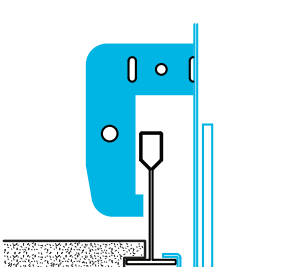
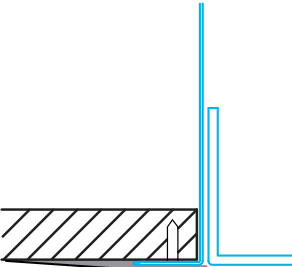
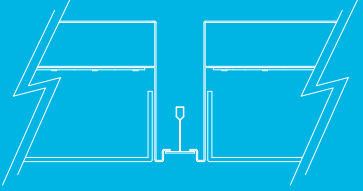
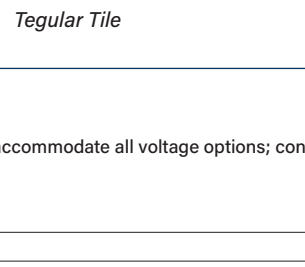
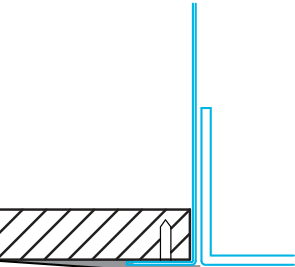
90 CRI

| | | | | |
|--------------|-------|------|------|----|
| 927LO | 2700K | 898 | 10.8 | 83 |
| 927MO | 2700K | 1447 | 17.2 | 84 |
| 927HO | 2700K | 1986 | 24.0 | 83 |
| 930LO | 3000K | 957 | 10.8 | 89 |
| 930MO | 3000K | 1545 | 17.2 | 90 |
| 930HO | 3000K | 2124 | 24.0 | 89 |
| 935LO | 3500K | 957 | 10.8 | 89 |
| 935MO | 3500K | 1545 | 17.2 | 90 |
| 935HO | 3500K | 2124 | 24.0 | 89 |
| 940LO | 4000K | 1008 | 10.7 | 94 |
| 940MO | 4000K | 1623 | 17.2 | 95 |
| 940HO | 4000K | 2225 | 24.0 | 93 |



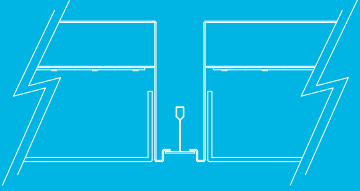
Mounting

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

| G | | FL | | SF |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1" Grid Mount <i>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.</i> | | 9/16" Grid Mount <i>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.</i> | | Screw Slot Mounting <i>Does not fit into standard 1' grid spacing, see installs for grid mounting details. Works with screw slot and bolt slot ceiling types.</i> |
|  | |  | |  |
|  | |  | |  |
|  | |  | |  |

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.



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 = 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

| | |
|------------|-------------------------------------------------------|
| FSD | Factory Select Driver 1%, 0-10v |
| PL2 | Advance Xitanium 1%, 0-10v |
| PL4 | Advance Xitanium 347v 1%, 0-10v, requires 347v |
| OL2 | Osram Optotronic, 1%, 0-10v |
| OL4 | Osram Optotronic 347v, 1% 0-10v, requires 347v option |
| EE1 | eldoLED ECOdrive 1%, 0-10v Logarithmic |
| EE2 | eldoLED ECOdrive 1%, 0-10v Linear |
| ES1 | eldoLED SOLOdrive 0-10v, 0.1% Logarithmic |
| ES2 | eldoLED SOLOdrive 0-10v, 0% Linear |

DALI Drivers

| | |
|------------|-------------------------------------------|
| EE3 | eldoLED ECOdrive .1%, DALI (logarithmic) |
| ES3 | eldoLED SOLOdrive .1%, DALI (logarithmic) |
| OD1 | Osram Optotronic 1%, DEXAL |
| OD2 | Osram Optotronic 1%, DALI 2 Channel |

Lutron Drivers

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

Alternate Drivers

| | |
|------------|------------------------------------------------|
| PS1 | Signify Advance Xitanium Step Dimming 50%/100% |
| OD1 | Osram Optotronic 1%, DEXAL |

Circuiting

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

| | |
|-----------|---------------------------------------|
| 1 | Single Circuit |
| E | Emergency Circuit only |
| 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 |
| 1IC | Iota 10w Integral |
| 1ILL | Iota 10w Integral Lithium, Self Testing |
| 1IRH | Iota 20w Remote |
| 1P | Bodine 10w Integral |
| 1PLL | Bodine 10w Integral Lithium, Self Testing |
| 1PRH | Bodine 20w Remote |
| FSG | Factory Select Automatic Load Control Relay (ALCR), UNV |
| GI | Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV |
| GB | Bodine GTD, Generator Transfer Device, 120v or 277v |

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
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

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

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.

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LF12D_RECESSED_SPEC_JAN2023



Fixture Options

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

| | |
|------------|-----------------------------------------|
| CP | Chicago Plenum |
| AM | Antimicrobial Paint |
| FW6 | Flex Whip 6' |
| GMF | Internal Slow Blow Fuse |
| DSP | Customer Supplied Battery/Driver/Sensor |
| NA | 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 |
|--------------|---------------------------------------|------------|-----------------------------------|-----------------------|-------------|-----------------------------|
| 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 Acoustical Laboratories. For specific reports, contact Pinnacle directly.

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. 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 15 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), 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: 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: 15 lbs maximum.

Buy American Act Compliant

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