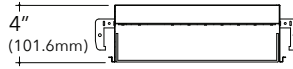


LiFT LF12D

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

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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>
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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%, 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>
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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.

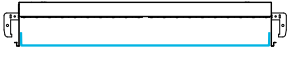
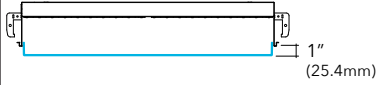
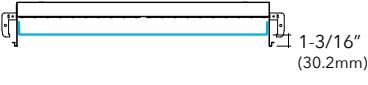
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Shielding

- 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
- 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	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

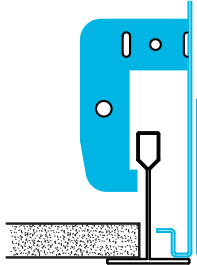
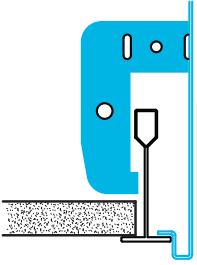
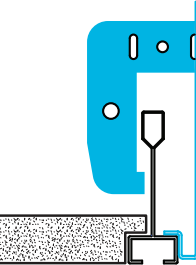
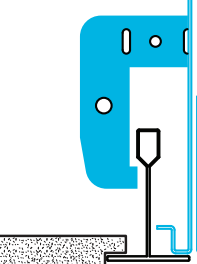
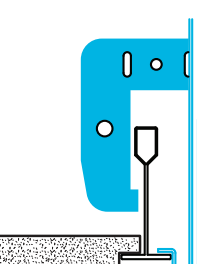
90 CRI

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



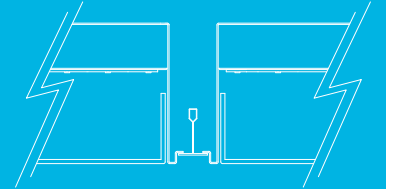
Mounting

- 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>
 <p>Standard Tile</p>		 <p>Standard Tile</p>		 <p>Tegular Tile</p>
 <p>Tegular Tile</p>		 <p>Tegular Tile</p>		Flange <i>Utilize in drywall application when a flange is required.</i>
				Spackle Flange <i>Utilize in drywall application when a flangeless look is required.</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% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear

DALI Drivers

EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)
EE4	eldoLED SOLOdrive .1%, DALI (linear)
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)
GI	Emergency Transfer Switch (ETS) DR Emergency Control Device
GB	Bodine GTD, Generator Transfer Device

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>)

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LF12D_RECESSED_SPEC_JUNE2022



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%. 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: 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.