

RECESSED
TRACK
ARCHITECTURAL
UNDER CABINET
EXIT SIGNAGE
EMERGENCY
MICRO CAST
ECOTRACK
DUAL LIGHT
FLEXCURVE
STEP LIGHT
SPECIALTY
EXIT
SIGNS
EMERGENCY
ARCHITECTS
DESIGNERS
LOW VOLTAGE
COMPACT
FLUORESCENT
LIGHT
EMITTING
DIODE
HIGH
INTENSITY
DISCHARGE
LINE VOLTAGE
DUAL
ENERGY
STAR
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Liton[®]
L I G H T I N G

LED RETROFITS SUPER GUIDE



It's 2014 and energy costs continue to skyrocket! Demand continues to Soar!



Of the hundreds of millions of existing residential, commercial and retail buildings, only a small percentage have been reconstructed, retrofitted or remodeled using LED, today's most **Energy Efficient Lighting Technology**.

The reasons are many, including cost, lack of trim variety, dimming options and beam angles but often the reasons are based on erroneous assumptions. Cost, for example.

Studies show that LED downlights are actually much less expensive to own, install and service than inefficient technologies like Line Voltage, HID and CFL when all factors are considered (see LITON's **LED Cost Saving Application Note**). It pays to retrofit old, obsolete lighting technology with LITON Retrofit LED.

If your LED retrofit project requires a variety of options, then look no further than LITON Lighting. LITON has LED retrofit downlights for every residential, commercial and architectural application. LITON Retrofit LED Downlights offer more apertures, trim styles, finishes, mounting methods, dimming methods, input options and beam options than any other manufacturer, bar none.

There is huge potential for the growth of the LED retrofit market. Only LITON's LED Retrofit product line has the depth and breadth to maximize this fantastic opportunity.


TABLE OF CONTENTS

				
Lensed 4"	Reflector 4"	Baffle 4"	Dome Lens 4"	Adj. Pull Down 4"
LRELD400 Pg. 6	LRELD402 Pg. 6	LRELD403 Pg. 6	LRELD442 Pg. 6	LRELD467 Pg. 7

				
Flat Lens 5"	Dome Lens 5"	Gimbal 5"	Reflector 5"	Baffle 5"
LRELD502 Pg. 8	LRELD542 Pg. 8	LRLDH588 Pg. 9	LRLDH502 Pg. 10	LRLDH521 Pg. 10

				
Baffle 5" •	Reflector 6"	Baffle 6"	Dome Lens 6"	Deco Glass 6"
LRLDH593 Pg. 10	LRELD602 Pg. 11	LRELD603 Pg. 11	LRELD642 Pg. 11	LRELD649 Pg. 11

				
Adj. Gimbal 6" •	Adj. Pull Down 6"	Reflector 6" •	Wall Wash 6" •	Adj. Gimbal 6" •
LRELD678 Pg. 7	LRELD667 Pg. 13	LRLDH621 Pg. 14	LRLDH671 Pg. 15	LRLDH678 Pg. 15

				
Reflector 6" •	Reflector 6"-10"	Surface Mount 6"	Adj. Gimbal 6"	Reflector 8"
LRELD602 Pg. 17	LRALD6/LRALD8 Pg. 20	LCALD6 Pg. 21	LRCLD678 Pg. 22	LRCLD802 Pg. 23

• High Output

Liton General Purpose Retrofit-able LED Trims

Easily convert existing 120V Incandescent housings into energy efficient, money saving LED fixtures.

LRELD678 6" Adjustable LED Retrofit



LRELD402 4" LED Reflector Retrofit



/S-GU24-MED Adapter used for Retrofits with GU24 Socket



/LKL16V120 Adapter used for High Output Retrofits with Quick Connector



13W, 550 Lumen LRELD Retrofits are ENERGY Star Qualified



13W, 550 Lumen LRELD Retrofits are Certified Title 24 Compliant by the California Energy Commission

Liton Offers LED Retrofits for Most General Purpose 4", 5" and 6"

120V Incandescent housings



FEATURES

- Easy to install, fits into most Incandescent housings
- Available in 4", 5" and 6" apertures
- Performance exceeds 65W BR Lamp, 75W A-lamp or 26W CFL
- Line Voltage adapter is included
- Dimming is standard or optional for every Retrofit LED product.
- Energy Star Qualified
- Title 24 Certified

Installation is as easy as 1 – 2 – 3 - 4!

1: Remove existing trim.	2: Connect Adapter to Socket	3: Connect Adapter to Retrofit Trim	4: Install New Retrofit Trim
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4" LED Retrofits

for Ambient Lighting



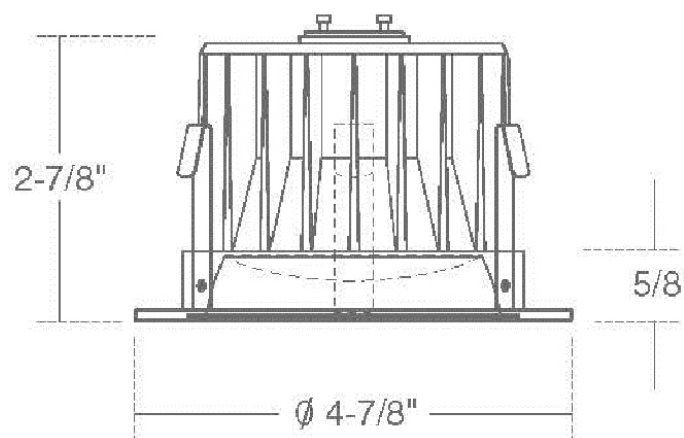
Definition: Ambient lighting is general illumination that lights in wide beam patterns in all directions within a space.

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▶ 4" LED Retrofits

APPLICATION

LITON's 4" LED Downlight Retrofits are designed for ambient lighting in residential and light commercial applications. LRELD4 LED modules are lensed to create gentle, low-glare lighting for general lighting applications. The lens has the added benefit of eliminating the lamp image. LITON LRELD4 LED Retrofits reduce energy consumption by up to 75%.



FEATURES

4" Retrofit LED Product Features

- 120V Standard, 277V Option
- 13W 550Lm, 16W 1000 Lm
- 3000K, 85CRI
- ELV/Incandescent Dimming
- 120V Medium Base Adapter Included
- Energy Star Qualified, Title 24 Certified



Fits Most 4" 120V Housings such as LITON LH99



LRELD400
Lensed
Reflector



LRELD402
Regressed
Reflector



LRELD403
Regressed
Baffle



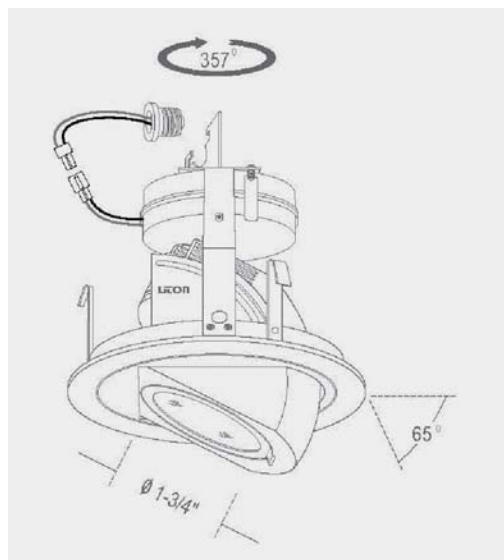
LRELD442
Dome Lens
Reflector

Ordering Guide

Example: **LRELD442W-L10/S-GU24-MED**

PRODUCT	FINISH	LUMENS	COLOR TEMP	ADAPTER
LRELD400**	B: Black**	Blank:600Lm	Blank: 3000K	/S-GU24-MED
LRELD402*	C: Clear Refl./White Ring*	-L10 1000Lm	-T27: 2700K	
LRELD403**	CO: Copper**			
LRELD442*	MO: Mocha**			
	N: Natural**			
	SN: Satin*			
	W: White			

4" LED Retrofits



LRELD467
Adjustable Pulldown

APPLICATION

LITON's LRELD467 Adjustable Pull Down

LED Retrofit modules provide a large degree of adjustability and two beam choices that allow you to put the correct amount of light exactly where you need it. Perfect for illuminating artwork, objects, fixtures and nooks in residential, retail and light commercial applications.

FEATURES

4" Adjustable Retrofit LED Product Features

- 120V Standard, 277V Option
- 13W, 700+ Lumens
- 3000K, 80CRI
- ELV/Incandescent Dimming
- 120V Medium Base Adapter Included Standard
- Title 24 Compliant GU24 Socket



Fits Most 4" 120V
Housings such as
LITON LH99

Ordering Guide

Example: **LRELD467-B60/SQG4-MED**

PRODUCT	FINISH	BEAM SPREAD	ADAPTER
LRELD467	B: Black	-B25: Narrow Flood	/SQG4-MED
	N: Natural Metal	-B45: Flood	
	W: White	-B60: Wide Flood	

5" LED Retrofits

for Ambient Lighting

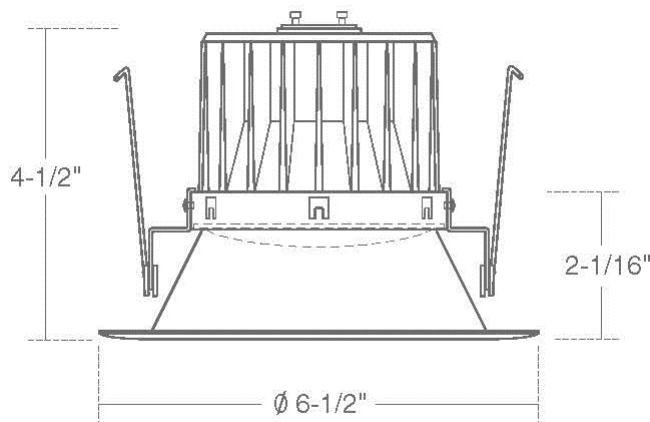
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5" LED Retrofits

APPLICATION

LITON's 5" LED Downlight Retrofits are designed for ambient lighting in residential and light commercial applications. LRELD5 GU24 LED modules are lensed to create gentle, low-glare lighting for general ambient lighting applications. The lens has the added benefit of eliminating the lamp image. LITON LRELD5 LED Retrofits reduce energy consumption by up to 75%.



FEATURES

5" Retrofit GU24 LED Product Features

- 120V Standard, 277V Option
- 13W 550Lm, 16W 1000Lm
- 3000K, 85CRI
- ELV/Incandescent Dimming
- 120V Medium Base Adapter Included Standard
- Energy Star Qualified, Title 24 Certified



Fits Most 5" 120V
Housings
such as LITON LH5ICA
or LITON LH5



LRELD502* /S-GU24-MED
Reflector



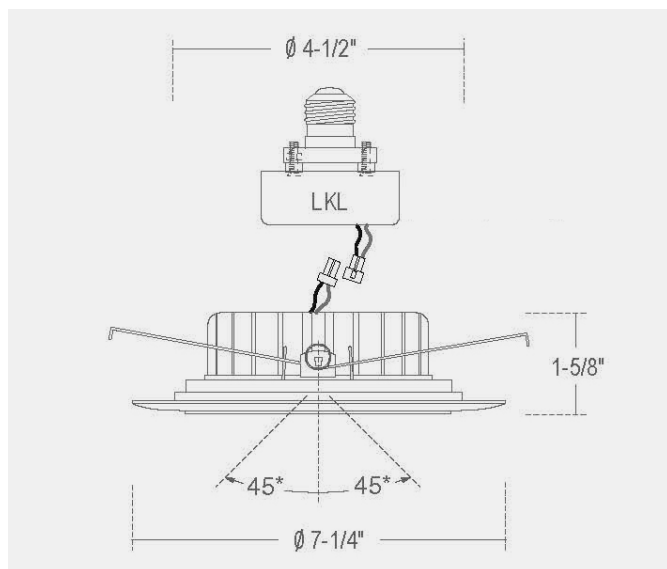
LRELD542* /S-GU24-MED
Dome Reflector

Ordering Guide

Example: **LRELD502C-L10/S-GU24-MED**

PRODUCT	FINISH	LUMENS	ADAPTER
LRELD502	C: Clear Reflector/White Flange	Blank: 550Lm	/S-GU24-MED
LRELD542	SN: Satin Haze Reflector/Natural Flange	-L10: 1000Lm	
	W: White Reflector/White Flange		

5" LED Retrofits



LRLDH588* /LKL16V120
Adjustable Gimbal

APPLICATION

LITON's LRLDH588 Adjustable Gimbal LED Retrofit modules provide a large degree of adjustability and two beam choices that allow you to put the correct amount of light exactly where you need it. Perfect for illumination artwork, objects, fixtures and nooks in residential, retail and light commercial applications.

FEATURES

5" Adj. Gimbal LED Retrofit Features

- 120V Standard, 277V Option
- 14W, 650+ lumens
- 3000K Standard, 80 CRI
- ELV/Incandescent Dimming
- Adapter included



Fits most **5" 120V Housings** such as
LITON LH5ICA or
LITON LH5



LKL16V120
Retrofit Adapter

Ordering Guide

Example: **LRLDH588B-B45/LKL16V120**

PRODUCT	FINISH	BEAM SPREAD	ADAPTER
LRLDH588	B: Black	-B25: Narrow Flood	/LKL16V120
	N: Natural Metal	-B45: Flood	
	W: White	-B61: Wide Flood	

5" High Output LED Retrofits

for General Lighting

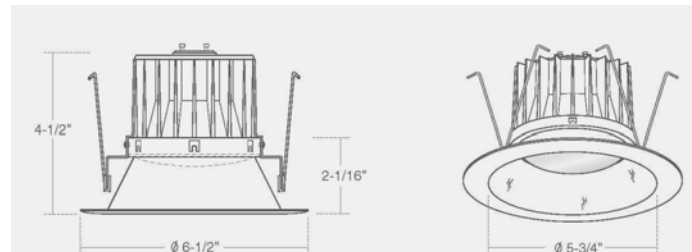
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5" LED Retrofits

APPLICATION

LITON's 5" LED High Output Downlight Retrofits are designed for ambient lighting in residential and light commercial applications with medium to high ceilings.



FEATURES

5" High Output LED Retrofit Product Features

- 120V Standard
- 14W, 650 lumens; 16W 1,000 lumens
- 3000K Standard, 85 CRI
- ELV/Incandescent Dimming
- LKL16V120 Adapter Kit included



Fits most **5" 120V Housings** such as LITON LH5ICA



LKL16V120
Retrofit Adapter



LRLDH502* /LKL16V120
14W, 650Lm Reflector



LRLDH521* /LKL16V120
16W, 1000Lm Reflector



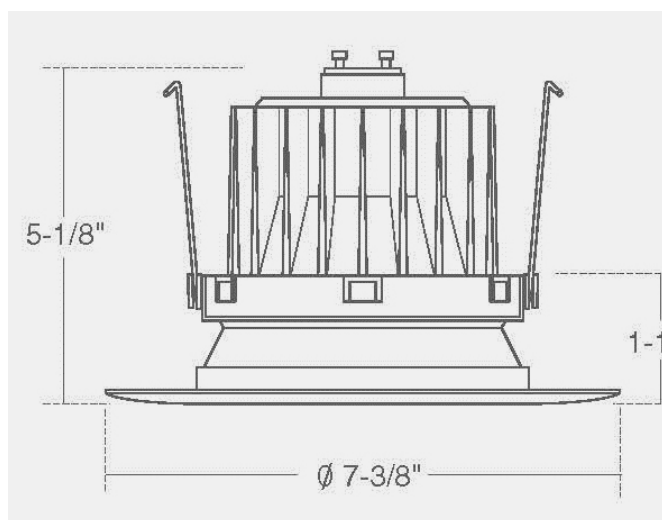
LRLDH593* /LKL16V120
16W, 1000 Lm Baffle

Ordering Guide

Example: **LRLDH593W-B45/LKL16V120**

PRODUCT	FINISH	BEAM SPREAD	LUMENS	ADAPTER
LRLDH502	W: White	-B25: Narrow Flood	Blank: 600Lm	/LKL16V120
LRLDH521		-B45: Flood	-L10: 1000K	
LRLDH593		-B61: Wide Flood		

6" LED Retrofits



LRELD602*
/S-GU24-
MED
Reflector
Finish**: C,
CO, MO,
SN, W



LRELD603*
/S-GU24-
MED
Baffle
Finish**: W,
B, N, CO,
MO



LRELD642*
/S-GU24-
MED
Dome Re-
flector
Finish**: B,
C, SN, W



LRELD649*
/S-GU24-
MED
Deco Cone
Finish**: B,
C, SN, W
Glass**:
-AM, -BL,
-FR

APPLICATION

LITON's 6" GU24 LED Retrofits are designed for ambient lighting in residential and light commercial applications. LRELD6 GU24 LED modules are lensed to create gentle, low-glare lighting for general ambient lighting applications.

FEATURES

6" GU24 Retrofit LED Features

- 120V Standard
- 15W/650Lm, 16W/1000Lm
- 3000K, 85CRI
- ELV/Incandescent Dimming
- 120V Medium Base Adapter Included Standard
- Energy Star Qualified, Title 24 Certified

**Color Chart

B: Black
C: Clear Reflector/White Ring
CO: All Copper
MO: All Mocha
N: All Natural
SN: Satin Haze Reflector/Natural Ring
W: All White

Ordering Guide

Example: **LRELD602W-L10/S-GU24-MED**

PRODUCT	FINISH	LUMENS	COLOR TEMP	ADAPTER
LRELD602	See Chart**	Blank: 650Lm	Blank: 3000K	/S-GU24-MED
LRELD603		-L10: 1000Lm	-T27: 2700K	
LRELD642				
LRELD649				

6" High Output LED Retrofits

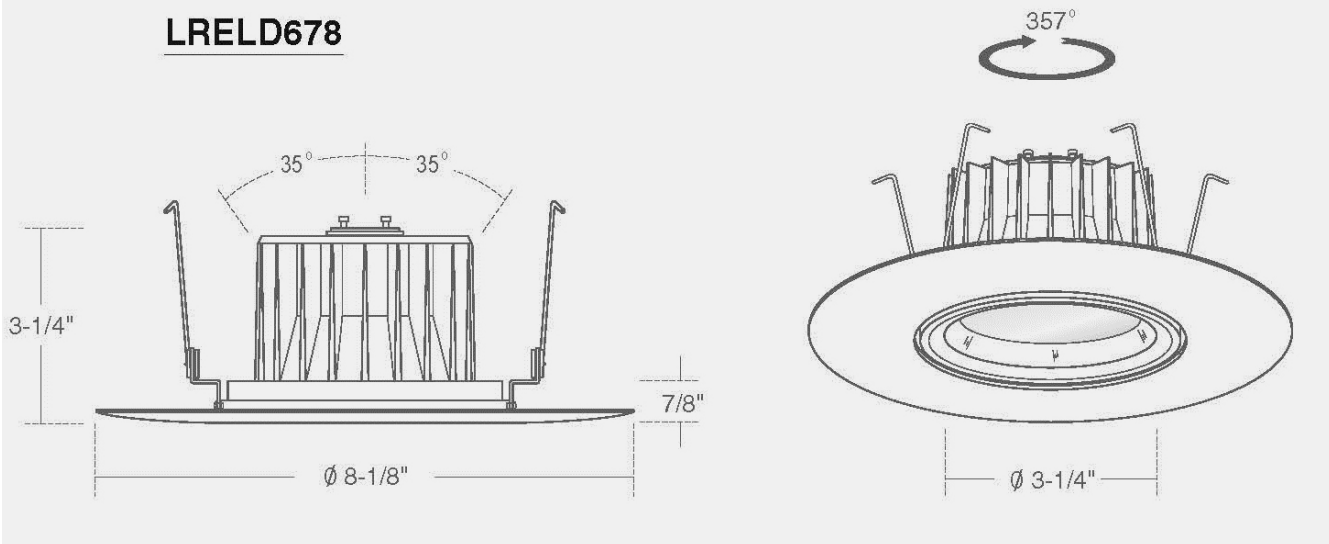
for Accent Lighting

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▶ 6" LED Retrofits

LRELD678



LRELD678* /S-GU24-MED
Adjustable Gimbal 13W
550 Lm Only



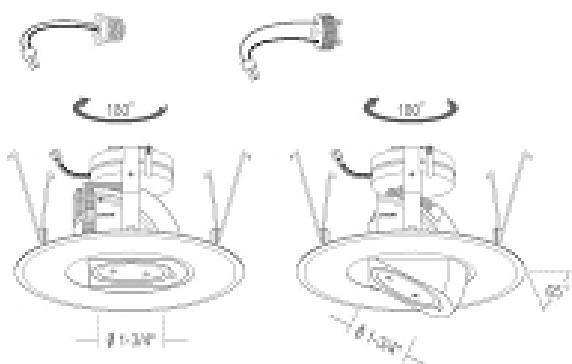
These Trims Fit Most 6"
120V Housings similar
to LITON LH7ICA

Ordering Guide

Example: **LRELD678W/S-GU24-MED**

PRODUCT	FINISH	COLOR TEMP	ADAPTER
LRELD678	W: All White	-Blank: 3000K	/S-GU24-MED
		-T27: 2700K	

6" LED Retrofits



FEATURES

- Can be used as a downlight or adjustable accent
- Highly adjustable: 65° vertical, 180° horizontal.
- Highly versatile: for new construction, remodel and retrofit applications.
- 12 Watts, 700+ Lumens.
- Fully regressed light source eliminates glare from behind and sides.
- Single LED Light Source.
- Color/CRI: 3,000K, 80 CRI Option



LRELD667*/SQG4-MED
12W, 700 Lm Only



These Trims Fit Most 6"
120V Housing similar to
LITON LH7ICA

Ordering Guide

Example: **LRELD667W-B45/SQG4-MED**

PRODUCT	FINISH	BEAM SPREAD	ADAPTER
LRELD667	B: Black	-B25: Narrow Flood	/SQG4-MED
	N: Natural Metal	-B45: Flood	
	W: White	-B60: Wide Flood	

6" High Output LED Retrofits

for General Lighting

LITON

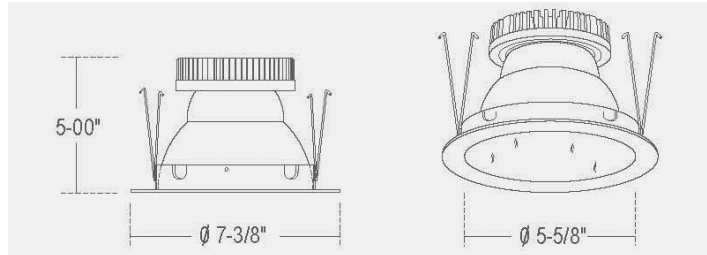
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6" LED Retrofits

APPLICATION

LITON's LRLDH621 Deep Reflector High

Output LED Retrofit modules provide powerful, general illumination for large spaces with medium to high ceilings.



FEATURES

6" High Output LED Retrofit Features

- 120V Standard
- 16W, 1,000+ lumens
- 3000K Standard, 80 CRI
- ELV/Incandescent Dimming
- Adapter included



LRLDH621*/LKL16V120
16W 1,200Lm Deep Reflector
One Piece, Self-flanged
Construction



LKL16V120
Retrofit Adapter

Ordering Guide

Example: **LRLDH621-B60/LKL16V120**

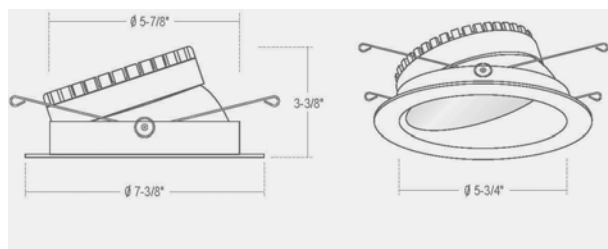
PRODUCT	FINISH	BEAM SPREAD	ADAPTER
LRLDH621	WWF: All White	-B60: Wide Flood	/LKL16V120
	SWF: All Satin Haze	-T27: 2700K	
	CWF: Clear Reflector/White Ring		

6" LED Retrofits

APPLICATION

LITON's LRLDH High Output LED Modules deliver lumen output normally found in more expensive commercial quality fixtures. The Single-Point LED provides a well-controlled beam allowing exacting control when highlighting walls, art, decorations, fixtures, furnishings and other objects. The included LKL Adapter screws into the medium base socket and attaches to the Retrofit with a quick connector for easy installation.

Wall Wash LED Retrofit



LRLDH671*/LKL16V120
16W 1,000Lm Wall Wash

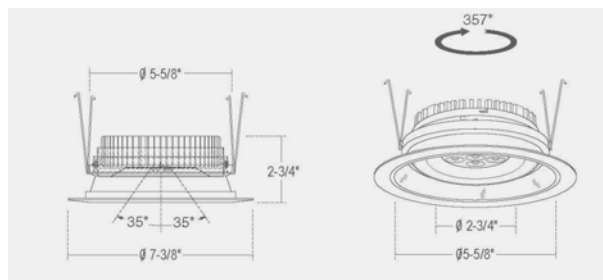
LKL16V120
Retrofit Adapter

Ordering Guide

Example: **LRLDH671BB-B60/LKL16V120**

PRODUCT	FINISH	BEAM SPREAD	ADAPTER
LRLDH671	W: All White	-B60: Wide Flood	/LKL16V120
	BB: All Black		
	S: Satin Reflector/White Ring		
	SS: All Satin Haze		

Adjustable Gimbal LED Retrofit



LRLDH678*/LKL16V120
16W 1,200Lm Adjustable
LED Gimbal

These trims fit most 6"
120V housings similar to
LITON LH7ICA

Ordering Guide

Example: **LRLDH678W-B25/LKL16V120**

PRODUCT	FINISH	BEAM SPREAD	ADAPTER
LRLDH678	W: All White	-B25: Narrow Flood	/LKL16V120
	BB: All Black	-B45: Flood	
	N: Natural	-B60: Wide Flood	

Another Liton Lighting First!

6" LED Retrofits for CFL



A multitude of choice!

2 Lumen packages, 13W 650Lm or 16W 1000Lm

2 Input voltages: 120V or 120V/277V

2 Adapter Choices: 18" Leads or Push-in Ports

5 Finish Choices including Copper, Mocha and Natural.

Due to popular demand for an LED Retrofit trim that works with CFL housings, Liton has developed the industry's first 6" LED Retrofit for CFL Housings.

Building codes for the millions of homes that have been built from the 1990's forward have required that CFL housings be installed in place of old, inefficient lighting technologies.

Those regulations resulted in big energy savings but also left many people dissatisfied with the character and output of the light generated by Fluorescent and Compact Fluorescent lamps. Other problematic issues include the costs and liabilities associated with re-lamping.

Those well-intentioned regulations also led to other regulations regarding the safe disposal of fluorescent products due to the inherent presence of mercury.

Now, owners and users of CFL fixtures can safely and easily eliminate those problems by retrofitting those outdated 6" CFL fixtures to beautiful LED trims. Enjoy the benefits of warm, consistent 3000K color temperatures, lovely color rendering (CRI), 75% longer lamp life, 50%+ energy efficiency.

It's simple! Just 4 easy Steps to Energy Savings 1 -2 -3- 4!

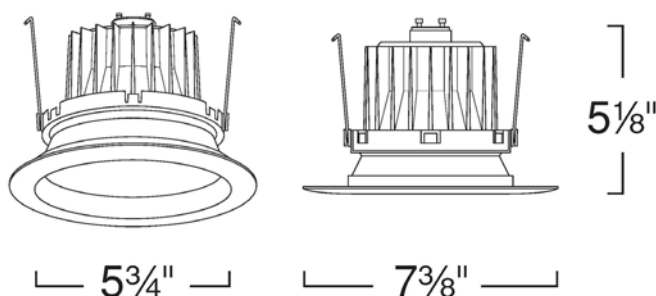
Step 1: Remove existing trim.

Step 2: Disconnect existing ballast from J-Box.

Step 3: Connect /S-GU24-PI or /S-GU24-18 to j-box.

Step 4: Connect adapter to GU24 socket on trim and push into housing.

6" LED Retrofits



/S-GU24-PI & S/GU24-18
Adapter

APPLICATION

Liton's New GU24 Base Retrofit Trims for CFL Housings are designed to retrofit existing 6" CFL housings into much more attractive, longer-lasting and energy efficient LED technology. Perfect for general purpose, ambient lighting in residential, retail and light commercial applications.

FEATURES

- 120V Standard
- 14W, 650Lm; 16W, 1000+ Lumens
- 3000K, 80CRI
- ELV/Incandescent Dimming
- 13W illuminates like 50W MR or 26W CFL Lamp
- 16W illuminates like 75W A-lamp or 32W-42W CFL

CFL Lamp Equivalents

13W, 650Lm LED replaces a 26W CFL lamp, 50% energy savings

16W, 1000Lm LED replaces 32W and 42W CFL lamps for up to 70% energy savings



This Trims Fit Most 6" CFL
Housings similar to
LITON LH276ICA

Ordering Guide

Example: **LRELD602W-L10/S-GU24-PI**

PRODUCT	VOLTAGE	FINISH	LUMENS	ADAPTER
LRELD602	Blank: 120V	C: Clear Reflector/White Ring	Blank: 650Lm (12W)	/S-GU24-PI: GU24 Socket w/ Push-in Ports
	UE: 120V-277V	CO: Copper Reflector/White Ring	-L10: 1000Lm (16W)	/S-GU24-18: GU24 Socket w/ 18" Leads
		MO: Mocha Reflector/White Ring		
		SN: Satin Haze Reflector/White Ring		
		W: White Reflector/White Ring		

Architectural LED Retrofits

Easily replace obsolete lighting technology with
High Output LED Architectural Retrofits

Why don't more Facilities Managers, Property Owners and Building Management Companies change energy hungry Incandescent, CFL and HID lighting to energy saving LED? One major obstacle is the idea that doing so means a complete replacement of frame-in kit, trim, lamp and costly refinishing of ceilings.



LITON Architectural Retrofits have changed the game...

No more costly housing replacement!

No more drywall removal and ceiling reconstruction!

No expensive rewiring!



LRALD6-R25UE
6" Architectural Retrofit



LRALD8-R25UE
8" Architectural Retrofit



LRALD9-R25UE
10" Architectural Retrofit



LRCLD6-R16
6" Shallow Adjustable LED Retrofit

Liton Architectural LED Retrofits

Easily retrofit the recessed downlights and wall wash fixtures in this lobby with LITON Architectural LED Retrofits. Save up to 75% in energy costs



With LITON Architectural LED Retrofits, it's as simple as **1-2-3-4!**

Step 1: Remove existing lamp & trim.	Step 2: Disconnect any existing ballast from J-Box.	Step 3: Connect Retrofit Conduit to j-box.	Step 4: Install New LED Retrofit trim.
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Save money!

Architectural LED Retrofits

for General Lighting



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6"/8"/10" LED Retrofits

APPLICATION

LITON's Architectural Grade Recessed LED

Retrofits are designed for low to high ceilings in Architectural, hospitality, commercial and retail retrofit applications. They easily convert inefficient, obsolete Incandescent, Fluorescent and HID architectural fixtures to energy saving, low maintenance LED. Simply bypass the existing power source, connect the retrofit in its place and install the trim into the existing plaster frame.

LRALD LED Downlight Retrofit



FEATURES

- Apertures: 6", 8" & 10"
(see Order Guide for Cut-Out diameters)
- Watts/Lumens: 19W (1,400Lm), 26W (2,000Lm)
28W (3,000Lm), 40W (4,000Lm)
- Color Temperature: 3000K Standard, others optional
- CRI: 80 CRI Standard, 90+ CRI option
- Binning: 3-Step MacAdam Ellipses (SDCM)
- Input: 120V/277V
- Dimming: UniDim™ Universal Dimming Option
- Heavy gauge aluminum, self-flanged trim for easy installation, heavy-duty conduit



Fits most 6", 8" & 10"
**Incandescent, CFL and
HID** Frame-in kits like
LITON LVH8 Series

Ordering Guide

Example: **LRALD625SWF150R25UE-DUN-T35**

PRODUCT	Ceiling Cutout	Finish Options	Lumen Package	Beam Spread	Options	LED
LRALD6	6-3/4"	SWF: Satin Reflector /White Flange	101-R25UE 1400LM	Blank: Flood	Blank: Non Dimming	Blank: Black
LRALD8	8-1/8"	WWF: White Reflector /White Flange	150-R25UE 2000Lm	-B60: Wide Flood	-DUN: UniDim™ Universal Dimming	-T27: 2700K
LRALD9	9-5/8"		240-R25UE* 3000Lm			-T35: 3500K
			350-R40UE 4000Lm			-T40: 4000K
						-T27-C90: 2700K 90+ CRI

6" Surface Mount Lumen Cannon



Optional Pendant Kits

for **flat** ceilingsfor **sloped** ceilings

APPLICATION

Architectural Grade Surface Mount LED downlight housing for medium to high ceilings combines energy efficiency with powerful lumen output. Perfect for atriums, churches, lobbies and airports that have high ceilings.

FEATURES

- 6" Aperture, less than 8" high
- 4 High Lumen choices: 1,400Lm, 2,000Lm, 3,000Lm & 4,000Lm
- 120V/277V (347V Available. Consult factory)
- Exclusive UniDim™ Universal Dimming Option assure compatibility with existing 0-10V, ELV and Incandescent dimming systems
- Pendant kits available in 12", 18", 24", 36" and 48" lengths
- 5 color temperature choices
- 80 CRI standard, 90+ CRI option
- LEDs binned to within 3-step MacAdam ellipses

Ordering Guide

Example: **LCALD6101-T27-C90**

PRODUCT	FINISH	LUMEN PACKAGE	DIMMING	LED
LCALD6	Blank: White	101: 1,400 Lumen 19W LED	Blank: Non-Dimming	Blank: 3000K
	B: White	151: 2,000 Lumen 25W LED	-DUN: UniDim™ Universal Dimming	-T27: 2700K**
		320: 3,000 Lumen 29W LED	-DMX: DMX Dimming*	-T27-C90: 2700K, 90+**
		350: 4,000 Lumen 40W LED	-DLI: Dali Dimming	-T35: 3500K**
		450: 5,000 Lumen 50W LED	-D10P1: 0-10V 1% Dimming	-T40: 4000K**

*Factory preset to address 001

**Extended lead time may apply for quantities over 100

6" Shallow Adjustable LED Retrofits

LRCLD6

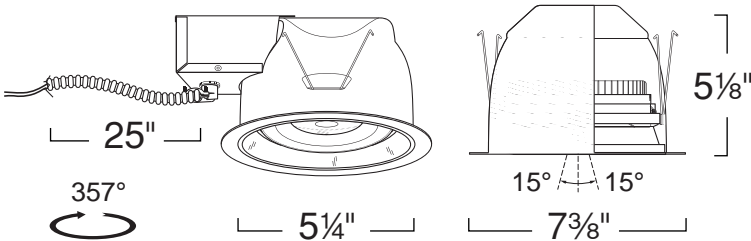


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6" LED Retrofits

FEATURES

- Aperture: 6"
- Watts/Lumens: 16W (1,200Lm)
- Color Temperature: 3000K Standard, others special order
- CRI: 80 CRI Standard
- Binning: ANSI Standard
- Input: 120V, 120V/277V
- Dimming Options: Incandescent/ELV
- Beam Options: 25°, 45°, 60° & 120°



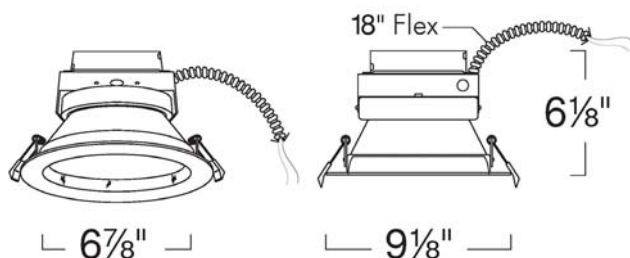
Fits most **Horizontal Incandescent, CFL** and **HID** Frame-in kits like LITON LSH6 Series

Ordering Guide

Example: **LRCLD678B-B45-R16UE**

PRODUCT	CEILING CUTOUT	FINISH	LUMEN PACKAGE	BEAM SPREAD
LRCLD678	6-3/4"	W: All White	-B120: Super Wide Flood	-R16: 120V
		B: All Black	-B25: Narrow Flood	-R16UE: 120V/277V
			-B45: Flood	-R16-DIN: ELV/Incandescent Dimming
			-B60: Wide Flood	

8" LED Retrofits



FEATURES

- Easily retrofits existing CFL, HID and Incandescent frame-in housings.
- Provides smooth, CFL-like output
- 18" steel conduit provided for easy connection to existing junction boxes
- Seamless, self-flanged design
- 25W, 3000 Lumen & 12W 1400 Lumen
- 4000K, 80 CRI



**Wide ring diameter fits virtually any
8" Frame-in Fixture!**

Ordering Guide

Example: **LRCLD802WWF100-R12UE-D10**

PRODUCT	FINISH	LUMENS	OPTIONS
LRCLD802	WWF: White Reflector/White Flange	100-R12: 1400 LED Lumens (12W)	Blank: Non-Dimming
		240-R12: 3000 LED Lumens (25W)	UE: Non-Dimming (120V/277V)
			UE-D10: 0-10V Dimming (120V/277V)
			UE-DUN: Universal Dimming (120V/277V)

RECESSED LIGHTING TRACK LIGHTING ARCHITECTURAL LIGHTING
EXIT SIGNAGE EMERGENCY LIGHTING UNDERCABINET LIGHTING
SPECIALTY LIGHTING PRACTICAL LED SOLUTIONS MICRO CAST SERIES
ARCHITECTS AND DESIGNERS SERIES ECOTRACK DURALIGHT
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LED RETROFIT SUPER GUIDE



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