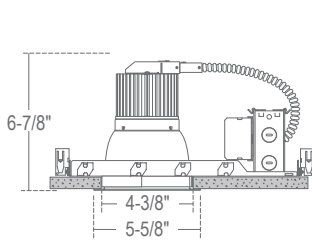


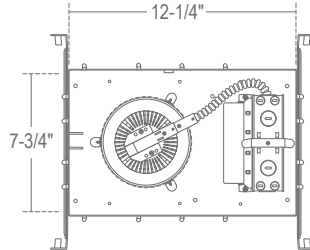
LHFRLD4C - 4" C-SERIES

(COB) CHIP ON BOARD BEAM CONTROL LED
IC FIRE-RATED DOWNLIGHT, 1000LM-1900LM (10W-20W)

- Patented dual-layer housing with one-hour fire rating
- IC Rated and Airtight
- Heavy Duty Self-Flanged Reflector
- Soft Even Lumen Distribution



Ceiling Cut-out: 4-7/8"
Ceiling Thickness: 1" Max



ORDERING : LHFRLD4C-DIN-EM/CR4LC30SW-B20-T27

LHFRLD4C

Housing

Driver Options

Emergency Options

Reflector Finish

Beam Spread

CCT

Housing ¹		Emergency Options		Reflector Finish		Beam Spread	
1000lm (10W)	LHFRLD4C10	None	Blank	Satin Haze Reflector/	/CR4LC30SW	20° Spot	-B20
1400lm (15W)	LHFRLD4C15	12W Emerg. Back-Up	-EM³	White Finish		30° Narrow Flood	-B30
1900lm (20W)	LHFRLD4C20	Remote Locator	-EMAC³	White Reflector/	/CR4LC30WW	50° Wide Flood	-B50
		Emergency System		White Finish		60° Wide Flood	-B60
		Generator Transfer	-GTD	All Black	/CR4LC30BB	70° Very Wide Flood	-B70
		Device		Clear Specular	/CR4LC30CW		
				Reflector/White Finish			
				All Satin Haze	/CR4LC30SS		
Driver Options ²						CCT	
0-10V Dimming	UE-D10					2700K (90 CRI)	-T27
UniDim™ 0-10V ELV and Triac Dimming	UE-DUN					2700K (97 CRI)	-T27-C97
120V ELV and Triac Dimming	-DIN					3000K (90 CRI)	-T30
Lutron HighLume	UE-DHL					3000K (97 CRI)	-T30-C97
Lutron EcoSystem	UE-ECO					3500K (90 CRI)	-T35
347V	-347⁴					4000K (90 CRI)	-T40
0-10V Dimming (1%)	UE-D10P1					5000K (80 CRI)	-T50

¹ Housing must match corresponding reflector in column to right.

² All drivers are 120V/277V unless otherwise noted.

³ Access above ceiling required for -EM and -EMAC

⁴ -347 is not available for LHFRLD4C10

COMPATABILITY

P-CR472

Wall Wash for 4"

P-CR471W

4" Wall Wash
CR4 Accessory



SPECIFICATION

Applications

Architectural/Commercial grade recessed IC fire-rated 1000lm to 1900lm downlight features a patented dual-layer aluminum housing providing a fire-barrier with a one-hour fire rating for safe egress in the event of a fire in an office or retail setting.

Fire Rating

Stops the progress of an active fire. Meets the fire-stop capabilities of a typical 5/8" gypsum board (drywall) barrier. Eliminates the requirement to specify more expensive fire-rated materials or the use of manually constructed drywall enclosures. Patented dual-layer housing is constructed of 20-gauge aluminum designed to maintain the continuity of fire-rated ceiling assemblies, subject to UL classified L500 series fire rated assemblies rated for 1-hour. UL Certifications and Approvals for One-Hour Fire Rating: UL263, CAN/ULC S101-07, ASTM E119-00A, UBC7-1, NFPA 251 and ASI A2.1 under U.S. Patent.

Mounting

Housing suitable for new construction installations. Adjusts up to 1-1/4" ceiling thickness. Supplied with (2) 24" adjustable hanger bars. Hanger bars equipped with nail-less install 3/4" serrated barbed studs and with captive nails, for faster and easier secure mounting in wood joists. Set-screws lock into position and prevent shifting after installation. Trim is secured via positive retention friction clips.

Driver

120V/277V AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted on large access Junction Box. Power Factor > 0.90. Operating Temperature: -10°C to +80°C. Accessible from above or below ceiling.

(UE-D10) 0-10V dimming works with most 5-wire, 0-10V dimmers. Factory qualified for use with Leviton IP710-DLZ.

(UE-DUN) Uni-Dim™ dimming option is a universal dimming system that works with most 3-wire ELV, 2-wire incandescent and 120V/277V 5-wire 0-10V fluorescent dimmers.

Emergency Options

Emergency LED Battery Back-up available, remotely mounted adjacent to housing by installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch, and plate cover included. Optional Generator Transfer Device switches the driver to auxiliary generator power during the loss of normal AC power, (recommended for applications requiring individual circuit switching).

Color Temperature (CCT)

Available in 2700K, 3000K, 3500K, 4000K and 5000K.

Insulation Contact

IC rated for direct insulation contact.

Thermal Management

Heat dissipation facilitated by the exposed integral aluminum heat sink to maximize heat rejection in an open-air environment. The recommended ambient temperature should be below 35°C to achieve a minimum L70 life of 50,000 hours according to the LM80 standard.

Reflector

One piece, self-flanged dual-reflector LED design enables a clean trim finish, without the need for a secondary trim ring. Heavy-gauge aluminum reflector prevents ugly dents during shipping and installation. Deeply mounted LED provides 50 degree visual cutoff for a glare-free appearance.

Reflector Finish

Available in Haze Reflector/White Finish White Reflector/White Finish, All Black, Clear Specular Reflector/White Finish, and All Satin Haze.

Power Connection

LED lamp array is replaceable via on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Lumen Maintenance

Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Junction Box

16 gauge pre-wired galvanized steel Junction Box, 32 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (6) 1/2", and (2) 3/4" knock-outs. Strain clamps to install or remove covers for easy access and ground wire.

Airflow

Airtight reflector design is designed to restrict air flow from room into plenums in compliance to the WSEC - Washington State Energy Code, (Less than 2.0 CFM -Cubic Feet per Minute).

Caution

LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty. (+1KV). Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Certifications and Listings

UL/cUL listed to UL1598 and UL8750. Suitable for dry, damp and wet locations. NYC approved: Calendar #41937. STC (Sound Transmission Class), and IIC (Impact Insulation Class) compliant.

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C, installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.