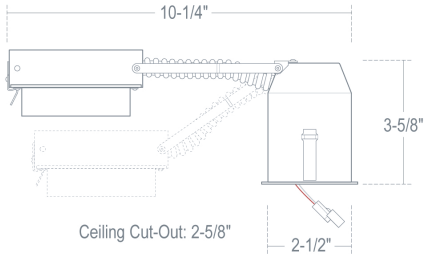
TYPE PROJECT

CATALOG#

# Remodel w/ Square Reflector

## 4" 10W LED LIGHTING



## SPECIFICATION

**Application:** This miniature LED housing is perfect for low to medium height ceilings in residential and light commercial applications. Its small aperture makes it ideal for strategic placement where space is limited and energy savings is important.

**Housing:** Pre-wired .05" baked enamel 1-piece drawn steel Plaster frame adjusts up to 3/4" ceiling thickness. Integral thermal protector to guard against improper lamping and installation. Trim is secured with internal ClickLokTM locking mechanism. Housing is easily removed from plaster frame for remodel applications.

**Mounting:** Housing suitable for remodel or new construction installations, supplied with high tension remodeling clips, designed to secure the housing to an existing sheetrock ceiling for fast and easy installation.

**Driver:** Electronic Direct Current U.L. Listed driver mounted away from LED Array for cool operation and end-of-life modularity. Comes standard with 120VAC input.

**Dimming:** Standard dimming option smoothly dims down to 5% of initial light output with flicker-free performance. Works with standard incandescent dimmers. Factory qualified for use with Lutron brand dimmers: S600PR, DVSCCL-153P & DV600PR as well as Leviton IP106-600W. Also works with standard electronic low voltage (ELV) dimmers. Factory qualified for use with Lutron brand dimmers: SELV300P, DVELV-300P, MAELV-600 and NELV-450.

**Color Temperature:** MacAdam ellipses within the ANSI C78 377A standard for color temperature and chromaticity ranges light binning allowance. Available with other color temperatures ANSI binning of 2,700K, 3,500K & 4,000K. To order use "-T" Suffix followed by color temperature. Example 4000K= T40. Consult factory as extended lead times apply.

**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.

**Junction Box :**24 gauge pre-wired galvanized steel Junction Box combined with Recessed Luminaire is suitable for Through Branch Wiring for a maximum of (6) #12 AWG wires. (2) 1/4" Romex knock-outs. Remove covers for easy access and ground wire. For 1/2" Pipe or Flex-Conduit (LITON# PCT031) Fitting Adaptor should be used. Consult Factory.

**Insulation Contact:**Non IC rated housing must be kept 3" from insulation.

**Safety Labels:** ETL/CETL/UL listed. Suitable for damp locations. NYC approved: Calendar #41937.

**Warranty:** Covered by a 3 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.

**Label:** cETL Listed

## FEATURE:

**Application:** This miniature general purpose LED trim is perfect for low to medium height ceilings in residential and light commercial applications. Its small aperture makes it ideal for strategic placement where space is limited and energy savings is important.

**Power Connection:** LED heat sinked lamp module is replaceable via onboard quick exclusionary disconnect terminal. No tools required. 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.

**Thermal Management:** Effective thermal dissipation facilitated by integral cast-aluminum, finned heat sink design for maximum heat rejection to provide long LED life.

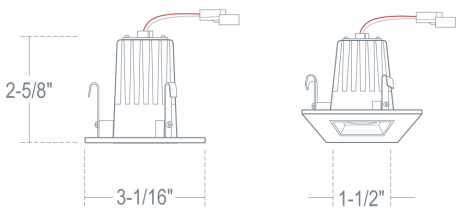
**Mounting:** Steel pressure springs mounted on trim to ensure positive retention inside housing.

**Color Temperature:** Comes standard with 3,000K Warm White LED's binned according to ANSI C78 377A for color temperature and chromaticity ranges. Available with 4,000K. To order use "-T" Suffix followed by color temperature. Example 4000K= T40. Consult factory as extended lead times and minimum order quantities apply.

**Warranty:** Covered by a 3 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.

**Wet Location:** Suitable for Wet Location Installations.

**Label:** cETL Listed




**REMODEL**
**LHLD2R** *120V input 10W LED*

| DRIVER | |
|---|---|
| **LHLD2R9C20** | :120V ELV/Incandescent Dimming |
| **LHLD2RICA9C20** | :120V ELV/Incandescent Dimming/IC Rated Airtight |

**SQUARE REFLECTOR**
**LRLDQ221** *10W LED*

| FINISH | |
|---|---|
| **LRLDQ221W** | :White |
| **LRLDQ221B** | :Black |
| **LRLDQ221N** | :Natural* |

* Special Order

***Ordering example:*** LHLD2R9C20/LRLDQ221W

File Located online www.liton.com/spec

ID#: 3090_3084

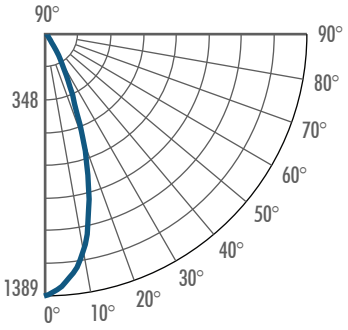
2020.11.11

# LRLDQ221 - PHOTOMETRY
## Square Reflector (700Lm)

### LRLDQ221 - 3,000K

| | |
|---|---|
| System Power | :8.9W |
| Test Date | :3/2016 |
| Beam Angle 50% | :36.4° |
| Field Angle 10% | :59.9° |
| Color Temperature | :3000K |
| CRI | :90.0 |
| R9 Value | :73.0 |
| Lumens Delivered | :630Lm |
| CBCP | :1,389cd |
| Power Factor | :0.89 |

### CANDELA TABULATION




### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC |
|---|---|---|
| 8.0′ | 5.3′ | 21.7 |
| 10.0′ | 6.6′ | 13.9 |
| 12.0′ | 7.9′ | 9.6 |
| 14.0′ | 9.2′ | 7.1 |
| 20.0′ | 13.2′ | 3.5 |