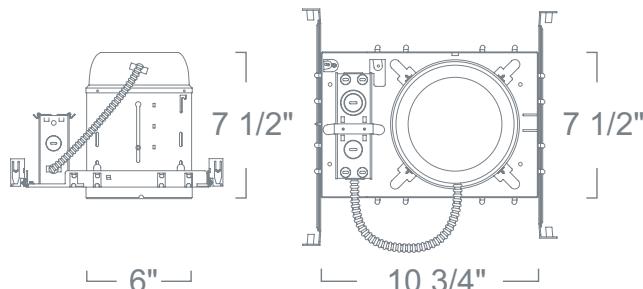


## New Construction Housing w/ Adjustable Pull Down (Dimmable)

6"



### SPECIFICATION

Ceiling cut-out: 6 1/2"

**Application:** General purpose housing specially designed for use with Liton's LRELD6 Series Retrofit-able GU24 LED Trims and Cree's LR6 LED Module.

**Housing:** Pre-wired housing adjusts up to a 1-1/2" ceiling thickness. Integral thermal protector to guard against improper lamping and installation. Trim is secured with torsion wing springs/standard coil springs or serrated clips.

**Mounting:** Housing suitable for new construction installations only, supplied with (2) 24" adjustable hanger bars with 90 degrees repositioning ability. 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. Earthquake structural cable compatible for drop panel ceiling or any other mounting that requires direct support from structural ceilings.

**Junction Box:** 16 gauge pre-wired galvanized steel Junction Box, 32 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (7) 3/4" and (4) Romex knock-outs. Strain clamps to install or remove covers for easy access and ground wire. Equipped with safety standard fitting for flex-conduit.

**Insulation Contact:** IC rated housing rated for direct contact with loosefill blown and rolled insulation.

**Airflow:** Airtight option 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). Complies to Title24 air flow requirements (Air-tight).

**Safety Labels:** UL/CUL listed for through-branch wiring (8) No.12 AWG 90°C and suitable for damp locations. NYC approved: Calendar #41937.

**Insulation Contact:** Energy Efficient LED housing comes standard with IC rating for direct contact with loosefill blown and rolled insulation.

**Caution:** Use of any 3rd party lamp source in this unit is subject to the lamp/module manufacturer's own limitations. In no way does LITON make any claims to compatibility in regards to form, fit, usage and case temperature conditions with other manufacturer's products. Users are responsible for confirming compatibility under all aforementioned conditions before using this product.

**Caution:** LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.



### FEATURE:



**Application:** This Adjustable LED Pull Down Trim can be used with LITON new construction and remodel housings with a GU24 socket and is retrofittable for use with line voltage GU24 housings. The elbow design provides full horizontal and vertical adjustability and allows it to function as an accent light and a downlight. Lumen output is comparable to a 75W MR16 Lamp.

**Mounting:** Mounts into standard 6" General Purpose Recessed GU24 housings. Steel pressure springs mounted on trim to ensure positive retention inside housing. Alternate mounting methods available, consult factory.

**Power Connection:** Comes standard with GU24 socket mounted to top of fixture. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

**Lumen Maintenance:** Minimum 35,000 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.

**Driver:** Electronic Direct Current driver mounted on fixture. Comes standard with Incandescent dimming. Smoothly dims down to 5% with standard Incandescent and Low Voltage dimmers.

**Color Temperature:** Comes with 3,000K Warm White LED's binned according to ANSI C78.377A for color temperature and chromaticity ranges. Available with other color temperatures with ANSI binning between 2700K and 6500K. To order use "-T" Suffix followed by color temperature, consult factory as extended lead times and minimum order quantities apply. Example: 4,000K = -T40.

**Safety Labels:** ETL/CETL 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.

Made in USA

### NEW CONSTRUCTION HOUSING LH7ICA-LLF-GU24 LED

| DESCRIPTION                               |
|---|
| LH7ICA-LLF-GU24: New Construction Housing |

### ADJUSTABLE PULL DOWN (DIMMABLE)

#### LRELD667 120V LED

| FINISH                   | BEAM SPREAD     |
|--------------------------|-----------------|
| LRELD667B :Black         | -B45:Flood      |
| LRELD667N :Natural Metal | -B60:Wide Flood |
| LRELD667W :White         |                 |

Ordering example: LH7ICA-LLF-GU24/LRELD667B-B60

## 6" LED Adjustable Downlight

Lamp: (1) LED, 12W 700Lm

Total Rated Fixture Lumen : 562.9 Lm

Total Luminaire Efficacy : 48 Lm/W

Luminous Diameter : 1.8"

CRI : 80 Standard

## LM79 Report File

#L07133810

By:

Lighting Sciences Inc.

LRELD667

## LED DETAILS

### Light Source Specification

Color Rendering Index (CRI): 80+

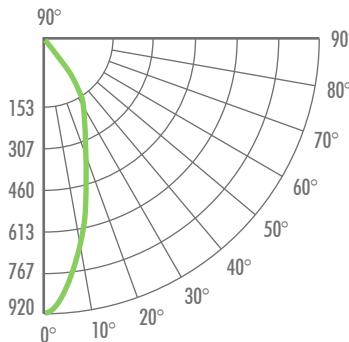
Color Temperature: 3,072K

Estimated Life: 35,000 + hrs. - L70

Lamp Equivalents: 50W MR16, PAR20, PAR30, 75W A19

## ZONAL LUMENS SUMMARY

| Zone     | Lumens | % Fixt |
|----------|--------|--------|
| 0 - 30   | 382.1  | 67.9   |
| 0 - 40   | 506.9  | 90.1   |
| 0 - 60   | 544.3  | 96.7   |
| 60 - 90  | 18.6   | 3.3    |
| 70 - 100 | 11.1   | 2.0    |
| 90 - 120 | 0.0    | 0.0    |
| 0 - 90   | 562.9  | 100.0  |
| 90 - 180 | 0.0    | 0.0    |
| 0 - 180  | 562.9  | 100.0  |



## CANDELA TABLE - TYPE C

| CD./SQ.M (FOOTLAMBERTS) |     |
|-------------------------|-----|
| Angle                   | 0   |
| 0                       | 914 |
| 5                       | 849 |
| 15                      | 557 |
| 55                      | 10  |
| 65                      | 8   |
| 75                      | 6   |
| 85                      | 6   |
| 90                      | 0   |

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

### EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |     |     | 0   |     |     |     |    |    |    |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
|    | 70  | 50  | 30  | 0   | 70  | 50  | 30  | 0   | 50  | 30  | 20  | 50  | 30  | 20  | 50  | 30  | 20  | 50  | 30  | 20  | 50  | 30  | 20  | 50  |    |    |    |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 100 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 102 | 102 | 102 | 100 | 100 | 100 |    |    |    |
| 1  | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 93  | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  | 91  | 89  | 87  | 86  | 85  | 84  | 83 |    |    |
| 2  | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 86  | 97  | 94  | 91  | 94  | 91  | 89  | 89  | 85  | 82  | 81  | 79  | 83  | 81  | 80  | 78  | 76  | 75 |    |    |
| 3  | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 80  | 91  | 87  | 84  | 85  | 81  | 77  | 79  | 75  | 71  | 77  | 74  | 71  | 73  | 69  | 66  | 65  | 63 |    |    |
| 4  | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 75  | 86  | 81  | 77  | 80  | 76  | 72  | 74  | 70  | 67  | 73  | 69  | 66  | 65  | 61  | 59  | 56  | 53 |    |    |
| 5  | 92  | 83  | 77  | 73  | 90  | 82  | 77  | 70  | 80  | 76  | 72  | 79  | 75  | 71  | 77  | 74  | 71  | 77  | 74  | 71  | 73  | 69  | 66  | 65  | 62 |    |    |
| 6  | 87  | 78  | 72  | 68  | 86  | 77  | 72  | 66  | 76  | 71  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 70  | 67  | 64  | 61  | 58  | 55  | 52  | 50 |    |    |
| 7  | 83  | 74  | 68  | 63  | 82  | 73  | 67  | 62  | 72  | 67  | 63  | 71  | 66  | 63  | 68  | 63  | 60  | 56  | 52  | 50  | 47  | 44  | 41  | 38  | 35 |    |    |
| 8  | 79  | 70  | 64  | 59  | 78  | 69  | 63  | 58  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 63  | 58  | 55  | 52  | 49  | 46  | 43  | 40 | 37 |    |
| 9  | 75  | 66  | 60  | 56  | 74  | 65  | 60  | 55  | 64  | 59  | 56  | 64  | 59  | 55  | 63  | 58  | 55  | 60  | 55  | 52  | 48  | 45  | 42  | 39  | 36 | 33 |    |
| 10 | 72  | 62  | 57  | 53  | 71  | 62  | 57  | 52  | 61  | 56  | 53  | 60  | 56  | 52  | 60  | 55  | 52  | 60  | 55  | 52  | 51  | 48  | 45  | 42  | 39 | 36 | 33 |

## MULTIPLIERS

### COLOR TEMP

|        |      |
|--------|------|
| 3,000K | 1.00 |
| 4,000K | 1.13 |
| 2,700K | 0.90 |

## LUMINANCE SUMMARY CD./SQ.M.

| CD./SQ.M (FOOTLAMBERTS) | Mean CD/Sq. M. |
|-------------------------|----------------|
| Angle                   | Mean CD/Sq. M. |
| 0-10                    | 76.4           |
| 10-20                   | 154.0          |
| 20-30                   | 151.8          |
| 30-40                   | 124.8          |
| 40-50                   | 27.7           |
| 50-60                   | 9.7            |
| 60-70                   | 7.6            |
| 70-80                   | 6.3            |
| 80-90                   | 4.8            |
| 90-100                  | 0.0            |