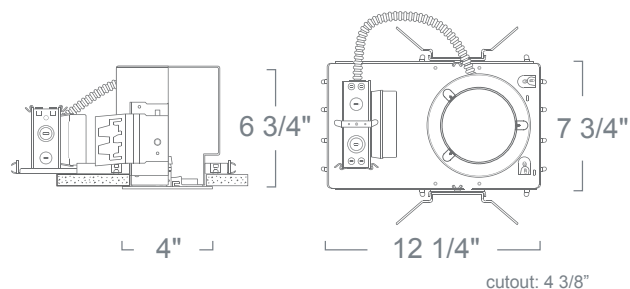


## 3.5" 19W Mini-Arc LED Housing w/ 3.5" LED 19W Adjustable Accent/Sloped 3.5" MINI-ARC LED LIGHTING



### SPECIFICATION

Ceiling cut-out: 4 3/8"

**Application:** High-output architectural-grade miniature recessed LED downlight housing for low to medium height ceilings in commercial and architectural applications. Spacious housing allows generous adjustment of the trim. A variety of trims, styles and finishes are available to achieve desired decor and illumination.

**Housing:** Pre-wired housing adjusts up to a 1 1/4" ceiling thickness. Integral thermal protector to guard against improper lamping and installation. Trim is secured with torsion wing springs.

**Mounting:** Housing suitable for new construction installations only, Bat-Wing bar hanger brackets adjust vertically 3 1/4" for multiple ceiling types and accepts 1/2" EMT. 26" C-Channel Strut for T-bar ceilings and 27" adjustable linear hanger bars for plaster ceilings or wood/metal joists. Heavy duty 16-gauge, die-formed galvanized steel. Bar hangers optional.

**Driver:** Electronic Direct Current LED driver integrally mounted in electric junction box.

**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.

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

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

**Dimming:** 0-10V dimming option (-D10) works with most 0-10V dimmers. Factory qualified for use with Leviton IP710-DLX and Lutron NTFTV-WH. The Lutron Hi-Lume 1% dimming option (-DHL) works with compatible Lutron dimmers: NovaT NTF-10-277, Skylark SF-12P277 & Vienti VTF-6A. **Uni-Dim™** is a universal dimming system that works with most ELV, Incandescent and 0-10V fluorescent dimmers.

### FEATURE:



**Application:** High-output miniature architectural-grade LED adjustable accent trim for commercial and high-end residential applications. Easily accent objects and illuminate walls to enhance the mood and ambience of a space. Doubles as an adjustable downlight. Trim ring constructed of heavy-duty die-cast aluminum.

**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, heat sink design for maximum heat rejection to provide long LED life.

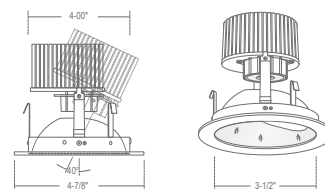
**Mounting:** Steel pressure springs mounted on trim to ensure positive retention inside housing.

**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.

**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.

**Label:** cETL Listed

**Made in USA**



### 3.5" 19W MINI-ARC LED HOUSING LHJLD4 19W Max LED

| WATTAGE          | OPTIONS                                         | EMERGENCY           |
|------------------|-------------------------------------------------|---------------------|
| LHJLD419C70 :19W | Blank :120V Non-Dimming                         | Blank :None         |
|                  | -DIN :120V Triac/ELV Dimming                    | -EM :Emergency (5W) |
|                  | UE :120V/277V                                   |                     |
|                  | UE-D10 :120V/277V 0-10V                         |                     |
|                  | UE-DHL :Hi-Lume Dimming (120V/277V)             |                     |
|                  | UE-DUN :120V-277V (ELV/0-10V Universal Dimming) |                     |

### 3.5" LED 19W ADJUSTABLE ACCENT/SLOPED LR4LH71 19W Max LED

Ordering example: LHJLD419C70-DIN-EM/LR4LH71BW-L12

| RING FINISH                                 | BEAM SPREAD          | LED                      | RATING            |
|---------------------------------------------|----------------------|--------------------------|-------------------|
| LR4LH71BW-L12 :Black Reflector / White Ring | Blank :45° Flood     | Blank :3000K             | Blank :None       |
| LR4LH71SW-L12 :Satin Reflector / White Ring | -B25 :Spot*          | -C90 :3000K, 90CRI       | -WL :Wet Location |
| LR4LH71WW-L12 :White Reflector / White Ring | -B60 :60° Wide Flood | -C97 :3000K, 97CRI       |                   |
|                                             |                      | -T17 :1700K*             |                   |
|                                             |                      | -T25 :2500K*             |                   |
|                                             |                      | -T27 :2700K              |                   |
|                                             |                      | -T27-C90 :2700K, 90+ CRI |                   |
|                                             |                      | -T27-C97 :2700K, 97CRI   |                   |
|                                             |                      | -T35 :3500K              |                   |
|                                             |                      | -T40 :4000K              |                   |

\* Extended Lead Time may apply. Consult Factory.

**LR4LH: 3.5" 19W Mini-Arc LED**

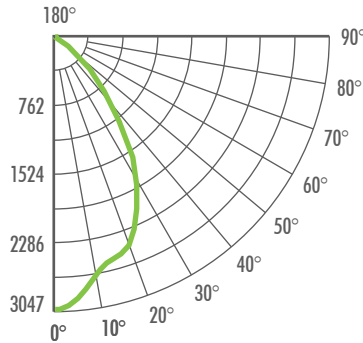
|                                              |                       |
|----------------------------------------------|-----------------------|
| Lamp: (1) LED                                | Test Report File#     |
| Total Rated Fixture Lumen : 1148 Lm          | L08121604             |
| Total Luminaire Efficacy : 60 Lm/W           | Light Laboratory Inc. |
| Luminous Diameter : 2.04"                    | LHJLD4/LR4LH          |
| Color Rendering Index (CRI) : 80+            |                       |
| Color Temperature : 3050K                    |                       |
| Estimated Life : 50,000 hrs. L70             |                       |
| Lamp Equivalents : 75W MR16, 50W PAR20/PAR30 |                       |
| 26W CFL                                      |                       |

**Fixture Data**

|         | LED Module Lumen | Fixture Lumen | Input Wattage |
|---------|------------------|---------------|---------------|
| @ 3000K | 1400             | 1148.0        | 19W           |
| @ 4000K | 1484             | 1217.0        | 19W           |

**ZONAL LUMENS SUMMARY**

| Zone    | Lumens  | % Fixt |
|---------|---------|--------|
| 0 - 20  | 734.55  | 64.00  |
| 0 - 30  | 1010.43 | 88.00  |
| 0 - 40  | 1103.30 | 96.10  |
| 0 - 60  | 1145.59 | 99.80  |
| 0 - 80  | 1148.21 | 100.00 |
| 0 - 90  | 1148.43 | 100.00 |
| 10 - 90 | 888.78  | 77.40  |
| 20 - 40 | 368.74  | 32.10  |
| 20 - 50 | 398.26  | 34.70  |
| 40 - 70 | 44.30   | 3.90   |
| 60 - 80 | 2.62    | 0.20   |
| 70 - 80 | 0.62    | 0.10   |
| 80 - 90 | 0.22    | 0.00   |

**CANDELA TABULATION**

| CD./SQ.M (FOOTLAMBERTS) |          |
|-------------------------|----------|
| Angle                   | 0        |
| 0.0                     | 3047.350 |
| 2.0                     | 3019.710 |
| 6.0                     | 2805.178 |
| 12.0                    | 2153.787 |
| 18.0                    | 1339.944 |
| 24.0                    | 661.342  |
| 30.0                    | 287.984  |
| 36.0                    | 121.291  |
| 42.0                    | 49.885   |
| 52.0                    | 19.660   |
| 62.0                    | 2.771    |
| 72.0                    | 0.744    |
| 80.0                    | 0.353    |

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD****EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20**

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 20  | 0   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  |
| 2  | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 91  |
| 3  | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 91  | 89  | 92  | 90  | 88  | 86  |
| 4  | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 88  | 86  | 84  | 82  |
| 5  | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 82  | 80  | 79  |
| 6  | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 75  |
| 7  | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |
| 8  | 87  | 80  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 70  | 69  |
| 9  | 84  | 76  | 72  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 71  | 68  | 74  | 70  | 68  | 67  |
| 10 | 82  | 74  | 69  | 66  | 81  | 73  | 69  | 66  | 72  | 68  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 64  |

**MULTIPLIERS****COLOR TEMP**

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

**LUMINANCE DATA**

| CD./SQ.M (FOOTLAMBERTS) |            |             |             |
|-------------------------|------------|-------------|-------------|
| Angle                   | Avg. 0-Deg | Avg. 45-Deg | Avg. 90-Deg |
| 45                      | 24264      | 24264       | 24264       |
| 55                      | 12022      | 12022       | 12022       |
| 65                      | 1751       | 1751        | 1751        |
| 75                      | 1039       | 1039        | 1039        |
| 85                      | 1112       | 1112        | 1112        |

**ZONAL LUMINANCE SUMMARY**

| CD./SQ.M (FOOTLAMBERTS) |        |
|-------------------------|--------|
| Zone                    | Lumens |
| 0-10                    | 259.66 |
| 10-20                   | 474.90 |
| 20-30                   | 275.88 |
| 30-40                   | 92.87  |
| 40-50                   | 29.51  |
| 50-60                   | 12.78  |
| 60-70                   | 2.01   |
| 70-80                   | 0.62   |
| 80-90                   | 0.22   |
| 90-100                  | 0.00   |