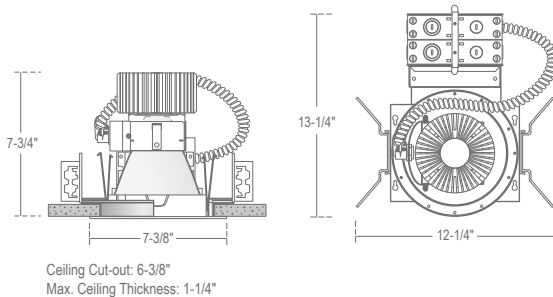


## 6" Architectural LED Frame-Kit (4000Lm) w/ 6" Architectural LED Trim (4000Lm) 6" LED ARCHITECTURAL DOWNLIGHT



### SPECIFICATION

**Application:** Architectural-grade recessed LED downlight housing for medium to high ceilings combines energy efficiency with powerful lumen output.

**Housing Frame:** 16 gauge galvanized plaster ring with black powder coat finish, friction or V-Spring clips secure trim to housing.

**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:** 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. Consult Factory for dimming options and compatible 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, plate cover and junction box 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).

**Junction Box:** 16 gauge pre-wired galvanized steel double Junction Box, 64 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (10) 3/4", (2) 1" and (8) Romex knock-outs. Strain clamps to install or remove covers for easy access and ground wire. Equipped with safety standard die-cast aluminum 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 5-Wire 0-10V dimmers. Uni-Dim™ (-DUN) option is a universal dimming system that works with most 3-Wire ELV, 2-Wire Incandescent and 5-Wire 0-10V fluorescent dimmers.

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

Suitable for Damp and Wet Location Installations.

Label: cETL Listed

### FEATURE:



**Application:** Architectural-grade recessed downlight reflector for medium to high ceilings in commercial and architectural installations. Reflector designed for minimal glare from lamp without sacrificing lumen output.

**Reflector Construction:** 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 singular LED provides 50 degree visual cutoff for a glare-free appearance. Held in place with two steel pressure v-springs for a tight fit and easy scratch-less removal.

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

**Color Temperature:** Comes standard with 3000K Warm White LEDs binned to within 3-Step MacAdam Ellipses (SDCM) and surpasses the ANSI C78 377A standard for color deviation. Available in other color temperatures, 2700K, 3500K and 4000K, binned according to the ANSI standard. To order, use "-T" suffix followed by color temperature. Example: -T40 = 4000k. Consult factory as extended lead times and minimum order quantities apply.

**Thermal Management:** Heat dissipation facilitated by exposed integral aluminum heat sink to maximize heat rejection in an open air environment. Recommended ambient temperature is below 35 degree celsius to achieve minimum L70 life of 50,000 hours according to LM80 standard.

**Warranty:** Covered by a 5 Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60 degrees C. Doing so will result in reduced lamp life and voided warranty.

**Safety Labels:** ETL/cETL listed to UL1598 and UL8750. Suitable for dry, damp and wet locations. NYC approved: Calendar #41937.

Energy Star Qualified

• LHALD640C105UE-DUN/\_/LRALD6\_350\_-T35

### 6" ARCHITECTURAL LED FRAME-KIT (4000LM)

LHALD640 40W LED 120V/277V

| DRIVER TYPE (ALL 120V/277V)                   | OPTION                          |
|-----------------------------------------------|---------------------------------|
| LHALD640C105UE :Non-Dimming                   | Blank :None                     |
| LHALD640C105UE-D10 :0-10V 10% Dimming         | -EM2 :Emergency (10W)           |
| LHALD640C105UE-D10P1 :0-10V 1% Dimming        | -GTD :Generator Transfer Device |
| LHALD640C105-DINPZ :2-Wire 0% Dimming (120V)  |                                 |
| LHALD640C105UE-DUN :UniDim™ Universal Dimming |                                 |
| LHALD640C105UE-DMX :DMX Dimming               |                                 |
| LHALD640C105UE-DZG :Zigbee Dimming            |                                 |

### 6" ARCHITECTURAL LED TRIM (4000LM)

LRALD6 40W LED

Ordering example:

| FINISH                    | BEAM SPREAD        | LED                       |
|---------------------------|--------------------|---------------------------|
| LRALD6SSF350 :All Satin   | Blank :Flood       | Blank :3000K              |
| LRALD6SWF350 :Satin/White | -B15 :Spot         | -C90 :3000K, 90CRI        |
| LRALD6WWF350 :All White   | -B25 :Narrow Flood | -C97 :3000K, 97CRI**      |
|                           | -B60 :Wide Flood   | -T17 :1700K*              |
|                           |                    | -T25 :2500K*              |
|                           |                    | -T27 :2700K               |
|                           |                    | -T27-C90 :2700K, 90 + CRI |
|                           |                    | -T27-C97 :2700K, 97CRI**  |
|                           |                    | -T35 :3500K               |
|                           |                    | -T40 :4000K               |

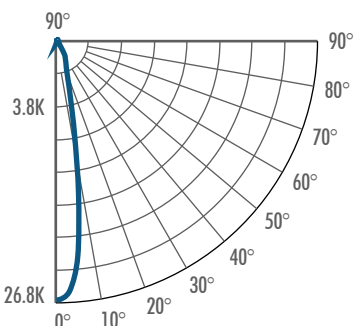
\* Extended Lead Time may apply. Consult Factory.  
\*\*Only available in 2700K and 3000K.

LHALD640C105UE/LRALD6SSF350-T27

#### LRALD6SSF350-B15-T40 - SPOT - 4,000K

|                   |          |               |       |
|-------------------|----------|---------------|-------|
| System Power      | :43.8W   | Multipliers   |       |
| Test Date         | :11/2016 | 3500K         | 0.99  |
| Beam Angle 50%    | :17.7°   | 3000K         | 0.97  |
| Field Angle 10%   | :40.4°   | 2700K         | 0.95  |
| Color Temperature | :4080K   | 2500K         | 0.45  |
| CRI               | :84.2    | 1700K         | 0.42  |
| R9 Value          | :24.2    | CRI           |       |
| Lumens Delivered  | :4628lm  | 80CRI (Blank) | :1.00 |
| CBCP              | :26955cd | 90CRI (-C90)  | :0.71 |
| Power Factor      | :0.99    | 97CRI (-C97)  | :0.73 |

#### CANDELA TABULATION



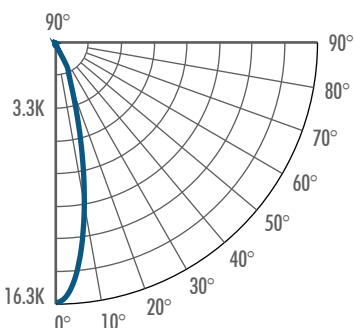
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC     |
|--------|---------------|--------|
| 3.3'   | 1.0'          | 2492.4 |
| 6.6'   | 2.0'          | 623.1  |
| 9.8'   | 3.1'          | 276.9  |
| 13.1'  | 4.1'          | 155.8  |
| 16.4'  | 5.1'          | 99.7   |

#### LRALD6SSF350-B25-T40 - NARROW FLOOD - 4,000K

|                   |          |               |       |
|-------------------|----------|---------------|-------|
| System Power      | :43.8W   | Multipliers   |       |
| Test Date         | :11/2016 | 3500K         | 0.99  |
| Beam Angle 50%    | :25.1°   | 3000K         | 0.97  |
| Field Angle 10%   | :54.4°   | 2700K         | 0.95  |
| Color Temperature | :4086K   | 2500K         | 0.45  |
| CRI               | :83.9    | 1700K         | 0.42  |
| R9 Value          | :22.3    | CRI           |       |
| Lumens Delivered  | :4516lm  | 80CRI (Blank) | :1.00 |
| CBCP              | :16368cd | 90CRI (-C90)  | :0.71 |
| Power Factor      | :0.99    | 97CRI (-C97)  | :0.73 |

#### CANDELA TABULATION



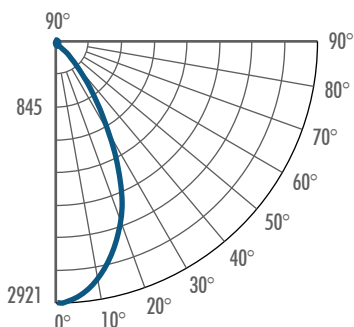
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC     |
|--------|---------------|--------|
| 3.3'   | 1.5'          | 1518.9 |
| 6.6'   | 2.9'          | 379.7  |
| 9.8'   | 4.4'          | 168.8  |
| 13.1'  | 5.9'          | 94.9   |
| 16.4'  | 7.3'          | 60.8   |

#### LRALD6SSF350-B60-T40 - WIDE FLOOD - 4000K

|                   |          |               |       |
|-------------------|----------|---------------|-------|
| System Power      | :44.3W   | Multipliers   |       |
| Test Date         | :11/2016 | 3500K         | 0.99  |
| Beam Angle 50%    | :60.2°   | 3000K         | 0.97  |
| Field Angle 10%   | :97.2°   | 2700K         | 0.95  |
| Color Temperature | :3982K   | 2500K         | 0.45  |
| CRI               | :83.5    | 1700K         | 0.42  |
| R9 Value          | :20.2    | CRI           |       |
| Lumens Delivered  | :3519lm  | 80CRI (Blank) | :1.00 |
| CBCP              | :3210cd  | 90CRI (-C90)  | :0.71 |
| Power Factor      | :0.99    | 97CRI (-C97)  | :0.73 |

#### CANDELA TABULATION



#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC    |
|--------|---------------|-------|
| 3.3'   | 3.8'          | 297.8 |
| 6.6'   | 7.6'          | 74.4  |
| 9.8'   | 11.4'         | 33.1  |
| 13.1'  | 15.2'         | 18.6  |
| 16.4'  | 19.0'         | 11.9  |

#### RECOMMENDED SPACING

##### 20 FEET

| Layout  | FC | Max/Min | W/sf2 |
|---------|----|---------|-------|
| 10 x 10 | 29 | 1.19    | 0.41  |
| 8 x 8   | 47 | 1.23    | 0.641 |

##### 24 FEET

| Layout  | FC | Max/Min | W/sf2 |
|---------|----|---------|-------|
| 12 x 12 | 21 | 1.14    | 0.308 |
| 8 x 8   | 44 | 1.38    | 0.641 |

##### 30 FEET

| Layout  | FC | Max/Min | W/sf2 |
|---------|----|---------|-------|
| 12 x 12 | 20 | 1.29    | 0.308 |
| 8 x 8   | 41 | 1.6     | 0.641 |