

## LAD8A

Project Name:

Type:



## APPLICATION

8" Horizontal architectural frame-in is design for high quality application with lens. Ideal for commercial, retail, conference rooms and hospital where architectural LED downlight fixture is required.

## FEATURES:

- Heavy gauge die formed galvanized steel mounting frame trim clips to mount open conical shape reflector.
- Vertically adjustable mounting brackets that use conduit or C channel (please see drawing for recommended C channel size on the next page). Provides 3-3/4" total adjustment.
- C channel is optional, not included as std.
- Post installation adjustment possible from above or below the ceiling.
- Maximum 1-1/2" ceiling thickness.
- Reflectors are optically designed to maximize lumen output and to provide superior glare control.
- Non-insulated ceilings or where insulation can be kept 3" from all side of housing.

## JUNCTION BOX:

- Galvanized steel junction box with seven 1/2" knockouts, four pryouts, and snap on cover.
- Electrical connections are made through a single junction box door.
- Access to junction box from below ceiling after removal of reflector for easy maintenance.

## LED:

- CREE LED technology.
- 50,000 hours.
- 4000K color temperature standard.
- 16W, 25W, 38W, 50W, 70W, 100W LED.
- Color Rendering Index: > 90
- Projected L70 hours: 60,000

## ELECTRICAL:

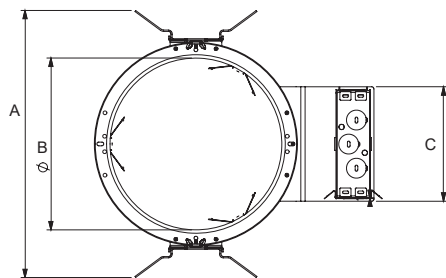
- Input voltage: 120-277V
- 0-10V (dim to 1%, 120-277V)
- Operating Temperature: -4°F (-20°C) ~ 104°F (40°C)
- Thermal protection.
- Surge protection (3kV line to line, 6kV line to earth).
- Protections: Output open load, over-current and short-circuit(hiccup), and over-temperature with auto recovery.
- Conducted and radiated EMI: Compliant with FCC CFR Title 47 Part 15 Class B (120 Vac)/ Class A (277 Vac) and EN55015 (CISPR 15) at 220/230/240 Vac.

## &lt;ELCU-200&gt;

- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

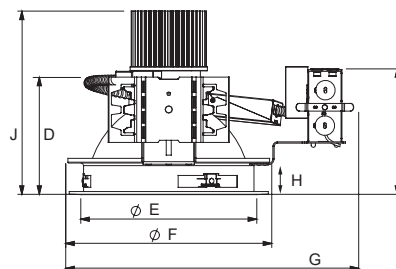
## LISTING:

- ROHS.
- UL/CUL listed for damp locations with covered ceiling.
- UL/CUL wet location listed with "W" lens only.
- Listed to UL 1598 and UL 8750.
- Minimum 75°C supply conductors.
- CSA certified to US.
- Energy Star certified. <sup>5</sup>
- 5 years limited warranty.
- 10 years limited warranty (optional). <sup>8,9</sup>
- ARRA compliant (optional).
- BAA compliant (optional).



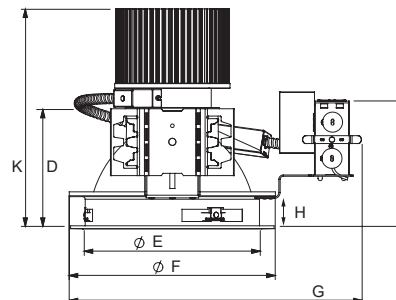
## Dimensions

- A: 12-7/32" (310)
- B: 7-7/8" Dia. (200)
- C: 5-1/4" (133)



## Dimensions (16W, 25W, 38W, 50W)

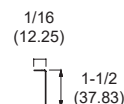
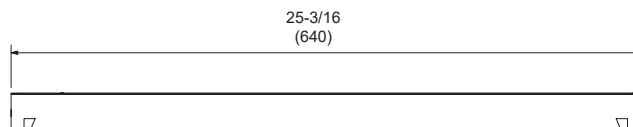
- D: 5-11/32" (136)
- E: 7-15/16" Dia. (202)
- F: 9-5/16" (236)
- G: 13-7/32" (336)
- H: 1-1/2" (38)
- I: 5-3/4" (146)
- J: 8-7/16" (214.9)



## Dimensions (70W, 100W)

- D: 5-11/32" (136)
- E: 7-15/16" Dia. (202)
- F: 9-5/16" (236)
- G: 13-7/32" (336)
- H: 1-1/2" (38)
- I: 5-3/4" (146)
- K: 9-15/16" (251.9)

Recommended C Channel Bar  
part# CHB24 (optional)



All dimensions are in inches.  
Drawings are for dimensional detail information only.

# 8" ARCHITECTURAL NEW CONSTRUCTION FRAME

## ORDERING INFORMATION

EXAMPLE: LAD8A-25L-40K-UNV-DM-WW-O60

| MODEL |                                             | LED  |          |                                  |                                      | COLOR TEMP. |                                                        | VOLTAGE    |                               | LED DRIVER             |                                                              |
|-------|---------------------------------------------|------|----------|----------------------------------|--------------------------------------|-------------|--------------------------------------------------------|------------|-------------------------------|------------------------|--------------------------------------------------------------|
| LAD8A | 8" Architectural Frame                      | 16L  | 16W LED  | <u>Lumen Output</u><br>1577.6 lm | <u>Lumen Efficiency</u><br>98.6 lm/W | -27K        | 2700K                                                  | UNV<br>347 | 120-277V<br>347V <sup>4</sup> | DM                     | 0-10V(dim to 1%, 120-277V)                                   |
|       |                                             | 25L  | 25W LED  | 2490 lm                          | 99.6 lm/W                            | -30K        | 3000K                                                  |            |                               | TDM                    | Triac Dim. (120V only)                                       |
|       |                                             | 38L  | 38W LED  | 4006.8 lm                        | 101.96 lm/W                          | -35K        | 3500K                                                  |            |                               | ELV                    | ELV compatible (reverse-phase or trailing-edge), (120V only) |
|       |                                             | 50L  | 50W LED  | 4602 lm                          | 98.7 lm/W                            | -40K        | 4000K (Std.)                                           |            |                               | LDE1<br>MU050<br>ED560 | 1%, Lutron (Soft Fade to Black, Ecosystem) <sup>2</sup>      |
|       |                                             | 70L  | 70W LED  | 6874 lm                          | 98.2 lm/W                            | -50K        | 5000K                                                  |            |                               |                        | 0-10V dim to 1% for -275K (Tunable White)                    |
|       |                                             | 100L | 100W LED | 8550 lm                          | 85.5 lm/W                            | -275K       | Tunable white<br>2700-5000K<br>(Max. 50W) <sup>3</sup> |            |                               |                        | eldoLED LightShape DALI dim to dark, 0.1% ~ 100%             |
|       |                                             | 107L | 107W LED | 7830 lm                          | 73.2 lm/W                            |             |                                                        |            |                               |                        | eldoLED POWERdrive DMX/RDM Full-color, 0.1% ~ 100%           |
| xx    | Custom lumen or Watt: ____ LM or ____ W     |      |          |                                  |                                      |             |                                                        |            |                               |                        |                                                              |
|       | * Max up to 8550lm or 107W                  |      |          |                                  |                                      |             |                                                        |            |                               |                        |                                                              |
|       | * with TDM/ELV: offered to closest lm or W. |      |          |                                  |                                      |             |                                                        |            |                               |                        |                                                              |

| EM <sup>9, 10, 13</sup> |                                                               | REFLECTOR |                                               | TRIM RING |                 | LENS    |                                                                 | OPTIC |             |
|-------------------------|---------------------------------------------------------------|-----------|-----------------------------------------------|-----------|-----------------|---------|-----------------------------------------------------------------|-------|-------------|
| EMI8                    | 1296 LUMEN EM Battery Backup                                  | WW        | White Reflector w/ White Plastic Ring         | (Blank)   | White Trim Ring | (Blank) | Dry / Damp location                                             | O20   | Narrow      |
| EMI15                   | 2430 LUMEN EM Battery Backup                                  | CW        | Clear Reflector w/ White Plastic Ring         | BK        | Black Trim Ring | W       | White Smooth Splay w/ Frosted Lens (Wet Location) <sup>11</sup> | O40   | Medium      |
| EMI25 INT               | 4050 LUMEN EM Battery Backup<br>EM Pilot Located on Reflector | PLW       | Platinum Haze Reflector w/ White Plastic Ring |           |                 |         |                                                                 | O60   | Wide (Std.) |
|                         |                                                               |           |                                               |           |                 |         |                                                                 | WA    | Wall Wash   |

| OPTIONS  |                                                            | LIGHTING CONTROL SYSTEM                     |                                                                                |
|----------|------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------|
| ARRA     | Assembled in USA                                           | VRF<br>FCJS0<br>FCJSE<br>FCJS0EM<br>FCJSEEM | <Lutron Vive System Enabled>                                                   |
| BAA      | BAA(Buy American Act) compliant                            |                                             | Vive Integral fixture control (RF only, for Lutron EcoSystem drivers)          |
| ELCU-200 | Fail-to-on Emergency lighting, UL924 <sup>1</sup>          |                                             | FCJS-010, Vive Attached fixture control (RF only for 0-10V drivers)            |
| GTD      | Bodine Generator Transfer Device                           |                                             | FCJS-ECO, Vive Attached fixture control (RF only for Lutron EcoSystem drivers) |
| GTD10DIM | Bodine Generator Transfer Device (0-10VDC Dimmer Override) |                                             | FCJS-010-EM, UL 924 Emergency (Must be ordered with FCJS-010)                  |
| CHB24    | C-Channel Bar                                              |                                             | FCJS-ECO-EM, UL 924 Emergency (Must be ordered with FCJS-ECO)                  |
| FRAME    | Rough-in frame pre-ship request <sup>6</sup>               |                                             |                                                                                |
| O10W     | Optional 10 Years Limited Warranty <sup>7,8</sup>          | PPA102S                                     | <Bluetooth>                                                                    |
| SF       | Self-flanged trim                                          |                                             | Bluetooth Powerpack (Consult factory for installation location)                |

### NOTES:

- Shipped separately.
- Available with 16L, 25L and 38L only.
- Must be ordered with ED560 or MU050 driver.
- Only available up to 38W.
- 38L model is exempt.
- LED driver and EM (if selected) will be included.
- This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
- Available with 0-10V dimming only. (Up to 50W).
- Contact the factory for other emergency battery backup options.
- Must specify voltage, not available with 347V.
- There is a 33% lumen decrease.
- Provided with a remote driver box.
- EMI15 can't be used with 11L or lower wattage, and EMI25 can't be used with 16L or lower wattage.
- Contact the factory to check for a qualifying LED driver.

## COMPATIBLE DIMMER SWITCH (TABLE 1)

| Model #                       | Brand                       | Compatible Dimmer Switch |                                                                                                                                                                                                                                                                                                                |
|-------------------------------|-----------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DM<br>(0-10V, dim to 1%)      | -                           | <Leviton>                | IlumaTech series (IP710-DL)                                                                                                                                                                                                                                                                                    |
|                               |                             | <Lutron>                 | Nova series (NFTV-xx), Diva series (DVTV-xx)                                                                                                                                                                                                                                                                   |
| DM<br>(120Vac for Triac, ELV) | -                           | <Lutron>                 | S-603PG, DVCL-153P, DV-600P, TGCL-153P, S600P, DVCLV-303P, SELV-300P, TG-600P, LG-600P, CT-103P, MAELV-600, FAELV-500                                                                                                                                                                                          |
|                               |                             | <Leviton>                | IPI06-1LZ, 6631-2, VPE06, 6683-IW, 6161, 6633-P, IPE04                                                                                                                                                                                                                                                         |
|                               |                             | <Cooper>                 | DLC03P, SLC03P, DAL06P                                                                                                                                                                                                                                                                                         |
|                               |                             | <Lightolier>             | ZP260QEW                                                                                                                                                                                                                                                                                                       |
| ED560                         | eldoLED DUALdrive           | <Lunatone>               | SS-LUNAT PS2 30mA<br>SS-LUNAT Touch or BT<br>SS-LUNAT Comm                                                                                                                                                                                                                                                     |
| LDE1                          | Lutron Hi-lume 1% EcoSystem | <Lutron>                 | PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO<br>Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S<br>GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGR-_E<br>Quantum Hub (120V only): QP2-_2C/4C/6C/8C<br>Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D |

# LAD8A

**BEAM ANGLE (OPTIC) TABLE**

| Wattage | LAD4-CW  |       |       | LAD6-CW  |       |       | LAD8-CW  |       |       |
|---------|----------|-------|-------|----------|-------|-------|----------|-------|-------|
|         | O20      | O40   | O60   | O20      | O40   | O60   | O20      | O40   | O60   |
| 11W     | 23.1°    | 42.8° | 57.8° | 21.6°    | 36.8° | 56.6° |          |       |       |
| 16W     | 23.1°    | 42.8° | 57.8° | 21.6°    | 36.8° | 56.6° | 23.1°    | 39°   | 58.2° |
| 25W     | 25°      | 44.3° | 58.9° | 23.8°    | 39.1° | 58.1° | 24.7°    | 40.5° | 59.1° |
| 38W     | 34.8°    | 53.6° | 60.2° | 31.9°    | 48.8° | 59.9° | 33.1°    | 53.9° | 61.4° |
| 50W     | 34.3°    | 51.2° | 59.7° | 31.8°    | 47.4° | 58.7° | 33.4°    | 50.1° | 61.7° |
| Wattage | LAD4-WW  |       |       | LAD6-WW  |       |       | LAD8-WW  |       |       |
|         | O20      | O40   | O60   | O20      | O40   | O60   | O20      | O40   | O60   |
| 11W     | 22.9°    | 40.8° | 52.7° | 22.7°    | 40.7° | 55.2° |          |       |       |
| 16W     | 22.9°    | 40.8° | 52.7° | 22.7°    | 40.7° | 55.2° | 22.5°    | 39.2° | 57.8° |
| 25W     | 24.3°    | 41.6° | 53.5° | 24.6°    | 41.5° | 56.3° | 24.5°    | 40.3° | 58.7° |
| 38W     | 34.3°    | 48.5° | 55.6° | 34.1°    | 50.8° | 58°   | 33.5°    | 49.2° | 62.5° |
| 50W     | 33.7°    | 46.9° | 55.3° | 33.6°    | 48.6° | 58°   | 33.7°    | 47.3° | 63.3° |
| Wattage | LAD4-PLW |       |       | LAD6-PLW |       |       | LAD8-PLW |       |       |
|         | O20      | O40   | O60   | O20      | O40   | O60   | O20      | O40   | O60   |
| 11W     | 22.7°    | 42.1° | 54.9° | 22.2°    | 40.4° | 54.6° |          |       |       |
| 16W     | 22.7°    | 42.1° | 54.9° | 22.2°    | 40.4° | 54.6° | 23°      | 39.3° | 57.7° |
| 25W     | 24.7°    | 43.8° | 55.5° | 24.6°    | 42°   | 55.3° | 24.5°    | 40.6° | 58.5° |
| 38W     | 35.6°    | 51.9° | 58°   | 34°      | 49°   | 58°   | 33.3°    | 50.1° | 60.7° |
| 50W     | 34.9°    | 49.3° | 57.5° | 33.3°    | 48.5° | 57.4° | 33.6°    | 47.4° | 61.3° |

