

LAD4A

Project Name:

Type:

**APPLICATION**

4" 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:

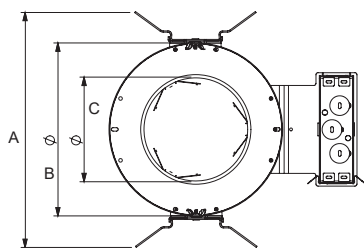
- CREE LED technology.
- 50,000 hours.
- 4000K color temperature standard.
- 16W, 25W, 38W, 50W LED.
- Color Rendering Index: > 90
- Projected L70 hours: 60,000

ELECTRICAL:

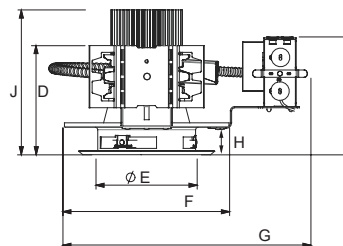
- Input voltage: 120-277V
- 3 in 1 dimming: Triac (120V only), 0-10V (dim to 1%, 120-277V), ELV (120V only).
- Operating Temperature: -4°F (-20°C) ~ 104°F (40°C)
- Thermal protection.
- Surge protection (3kV line to line, 6kV line to earth).
- Protections: Output open load, over-current and short-circuit(hiccup), 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.
- <ELCU-200>
- 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. ⁵
- 5 years limited warranty.
- 10 years limited warranty (optional). ^{8,9}
- ARRA compliant (optional).
- BAA compliant (optional).

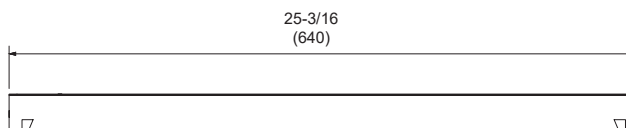
**Dimensions**

- A: 10-13/16" (275)
B: 8" (203)
C: 4-27/32" Dia. (123)

**Dimensions**

- D: 5-1/4" (133)
E: 4-27/32" Dia. (123)
F: 7-15/16" (202)
G: 11-13/16" (300)
H: 1-1/2" (38)
I: 5-21/32" (144)
J: 7" (178.3)

Recommended C Channel Bar
part# CHB24 (optional)



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

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ORDERING INFORMATION

EXAMPLE: LAD4A-25L-40K-UNV-EMI15-WW-W-O60

MODEL		LED				COLOR TEMP.		VOLTAGE		LED DRIVER	
LAD4A	4" Architectural Frame	11L	11W LED ⁶	Lumen Output	Lumen Efficiency	-27K	2700K	UNV 347	120-277V 347V ⁴	DM	- Triac (120V Only)
		16L	16W LED	1000 lm	90.9 lm/W	-30K	3000K				- 0-10V(dim to 1%, 120-277V)
		25L	25W LED	1458 lm	90.6 lm/W	-35K	3500K				- ELV (120-277V)
		38L	38W LED	2302 lm	92.1 lm/W	-40K	4000K (Std.)				0-10V dim to 1%
		50L	50W LED	3035 lm	82 lm/W	-50K	5000K				5%, Lutron (Ecosystem) ²
				3904 lm	80.8 lm/W	-275K	Tunable white 2700-5000K (Max. 50W) ³				1%, Lutron (Soft Fade to Black, Ecosystem) ²
											0-10V dim to 1% for -275K (Tunable White)
											eldoLED LightShape DALI dim to dark, 0.1% ~ 100%
											eldoLED POWERdrive DMX/RDM Full-color, 0.1% ~ 100%
											SDXX XX% / 100% Bi-Level Step dim (Specify XX : 10%-70%) ¹³

EM ^{10, 11, 14}		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) ¹²	O40	Medium
EMI25	4050 LUMEN EM Battery Backup	PLW	Platinum Haze Reflector w/ White Plastic Ring					O60	Wide (Std.)
								WA	Wall Wash

OPTIONS		LIGHTING CONTROL SYSTEM	
ARRA	Assembled in USA for Buy American Act	VRF	<Lutron Vive System Enabled>
BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant	FCJS0	Vive Integral fixture control (RF only, for Lutron EcoSystem drivers)
ELCU-200	Fail-to-on Emergency lighting, UL924 ¹	FCJSE	FCJS-010, Vive Attached fixture control (RF only for 0-10V drivers)
GTD	Bodine Generator Transfer Device	FCJS0EM	FCJS-ECO, Vive Attached fixture control (RF only for Lutron EcoSystem drivers)
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)	FCJSEEM	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 ⁷		
O10W	Optional 10 Years Limited Warranty ^{8,9}		
SF	Self-flanged trim	PPA102S	<Bluetooth> 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.
- 0-10V dimming as standard.
- 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 factory for other emergency battery backup options.
- Must specify voltage, not available with 347V, 480V.
- There is a 33% lumen decrease.
- Provided with a remote driver box.
- EMI15 cannot be used with 11L or Lower Wattage, and EMI25 cannot be used with 16L or Lower Wattage.

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COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
DM (0-10V, dim to 1%)	-	<Leviton>	IllumaTech series (IP710-DL)
		<Lutron>	Nova series (NFTV-xx), Diva series (DVTV-xx)
DM (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 SS-LUNAT Touch or BT SS-LUNAT Comm
LDE1	Lutron Hi-lume 1% EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ- E(wireless) QSGR- E Quantum Hub (120V only): QP2- _2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
LDE5	Lutron 5-Series EcoSystem		

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°

