LAD6C

Project Name:	
Type:	

APPLICATION

6” Horizontal commercial frame-in is non-insulated ceiling design for high wattage application with lens. Ideal for medium to high ceilings for commercial installations.

FEATURES:

- Galvanized steel plaster frame: Quality galvanized steel ring riveted to elevated steel junction box tray.
- Housing can be removed from plaster frame for junction box access.
- Mounting: Bar hanger allows fixtures to affix to T-bar grid into wood or steel joist members.
- 16-gauge galvanized steel construction.
- Maximum 1-1/2” ceiling thickness.
- Toolless adjustments post installation.
- Unique optic allows high lumen transmission while concealing the LED light source resulting in efficient, inviting light and minimizing LED glare.
- 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.

BAR HANGERS:

- Pre-installed adjustable bar hangers for span 24”.
- No clips required. Secure bar hanger to T-bars with wires or screws.
- Integral captive nails included for fast and easy installation.

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
- NEMA ANSLG C78.377

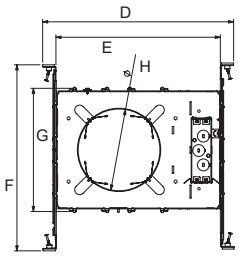
ELECTRICAL:

- 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.

- <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.

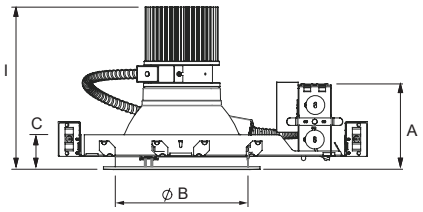
LISTING:

- 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).

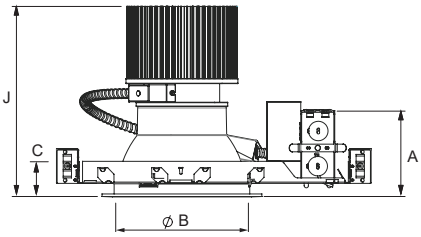


Dimensions
D: 15-5/16” (389.2)
E: 12-19/32” (320)
F: 16-1/8” (410)
G: 9-7/16” (240)
H: 6-1/4” Dia. (159)

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



Dimensions (16W, 25W, 38W, 50W)
A: 3-15/16” (100.6)
B: 6-5/16” Dia. (160.6)
C: 1-1/2” (38)
I: 7-11/16” (195.6)



Dimensions (70W, 100W)
A: 3-15/16” (100.6)
B: 6-5/16” Dia. (160.6)
C: 1-1/2” (38)
J: 8-7/8” (224.6)

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ORDERING INFORMATION

EXAMPLE: *LAD6C-25L-40K-UNV-DM-WW-O60*

MODEL		LED				COLOR TEMP.		VOLTAGE		LED DRIVER	
				Lumen Output	Lumen Efficiency						
LAD6C	6” Commercial Frame	**11L**	11W LED [6]	1084.6 lm	98.6 lm/W	**-27K**	2700K	**UNV**	120-277V	**DM**	0-10V(dim to 1%, 120-277V)
		16L	16W LED	1577.6 lm	98.6 lm/W	**-30K**	3000K	**347**	347V [4]	**TDM**	Triac Dim. (120V only)
		25L	25W LED	2490 lm	99.6 lm/W	**-35K**	3500K			**ELV**	ELV compatible (reverse-phase or trailing-edge), (120V only)
		38L	38W LED	4006.8 lm	101.96 lm/W	**-40K**	4000K (Std.)			**LDE1**	1%, Lutron (Soft Fade to Black, Ecosystem) [2]
		50L	50W LED	4602 lm	98.7 lm/W	**-50K**	5000K			**MU050**	0-10V dim to 1% for -275K (Tunable White)
		70L	70W LED	6874 lm	98.2 lm/W	**-275K**	Tunable white 2700-5000K (Max. 50W) [3]			**ED560**	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%
		100L	100W LED	8550 lm	85.5 lm/W					**RDMX**	eldoLED POWERdrive DMX/RDM Full-color, 0.1% ~ 100%
										SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10%~70%) [13]
										-GM	NEMA SSL 1, UL 8750 Class 1 or 2, 2kV Surge Protection, NEMA C82.77.10, driver integral thermal protection, TITLE 47 CFR 15, Class A sound rated [15]

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.)
INT	EM Pilot Located on Reflector							**WA**	Wall Wash

OPTIONS		LIGHTING CONTROL SYSTEM	
ARRA	Assembled in USA		<Lutron Vive System Enabled>
BAA	BAA(Buy American Act)	**VRF**	Vive Integral fixture control (RF only, for Lutron EcoSystem drivers)
ELCU-200	Fail-to-on Emergency lighting, UL924 [1]	**FCJS0**	FCJS-010, VIve Attached fixture control (RF only for 0-10V drivers)
GTD	Bodine Generator Transfer Device	**FCJSE**	FCJS-ECO, Vive Attached fixture control (RF only for Lutron EcoSystem drivers)
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override) Rough-in	**FCJS0EM**	FCJS-010-EM, UL 924 Emergency (Must be ordered with FCJS-010)
FRAME	frame pre-ship request [7]	**FCJSEEM**	FCJS-ECO-EM, UL 924 Emergency (Must be ordered with FCJS-ECO)
O10W	Optional 10 Years Limited Warranty [8, 9]		
SF	Self-flanged trim		<Bluetooth>
		PPA102S	Bluetooth Powerpack (Consult factory for installation location)

NOTES:
1. Shipped separately.
2. Available with 16L, 25L and 38L only.
3. Must be ordered with ED560 or MU050 driver.
4. Only available up to 38W.
5. 38L model is exempt.
6. 0-10V dimming as standard.
7. LED driver and EM (if selected) will be included.
8. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
9. Available with 0-10V dimming only. (Up to 50W).
10. Contact the factory for other emergency battery backup options.
11. Must specify voltage, not available with 347V.
12. There is a 33% lumen decrease.
13. Provided with a remote driver box.
14. EMI15 can't be used with 11L or lower wattage, and EMI25 can't be used with 16L or lower wattage.
15. Contact the factory to check for a qualifying LED driver.

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,DVELV-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-1EC0-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

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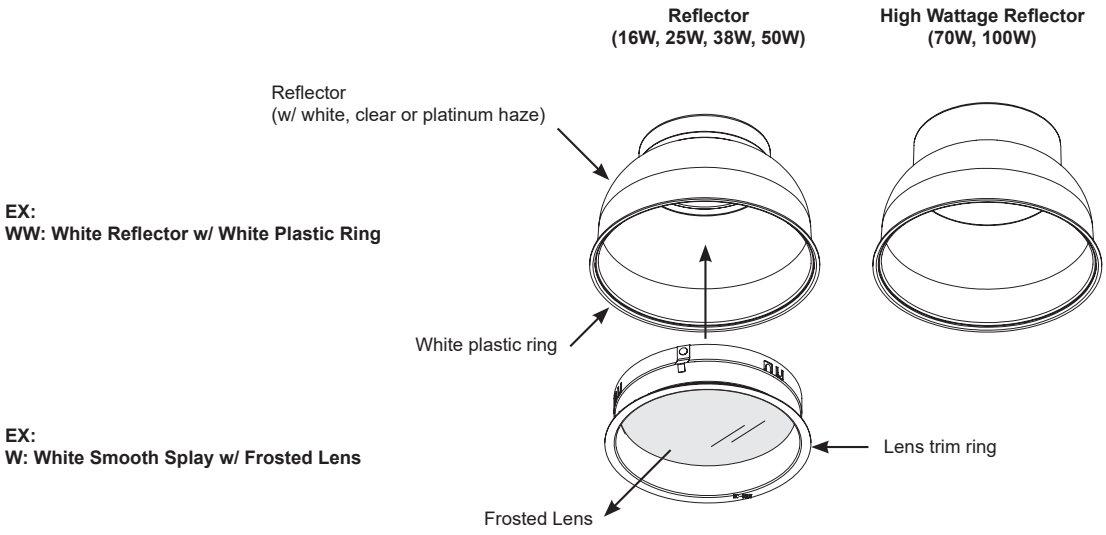
BEAM ANGLE (OPTIC) TABLE

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°



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