

ALRS401

4" LED Flat Frame Square Recessed Luminaire, NON-IC
Recessed Lighting



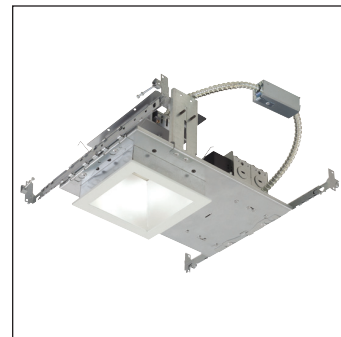
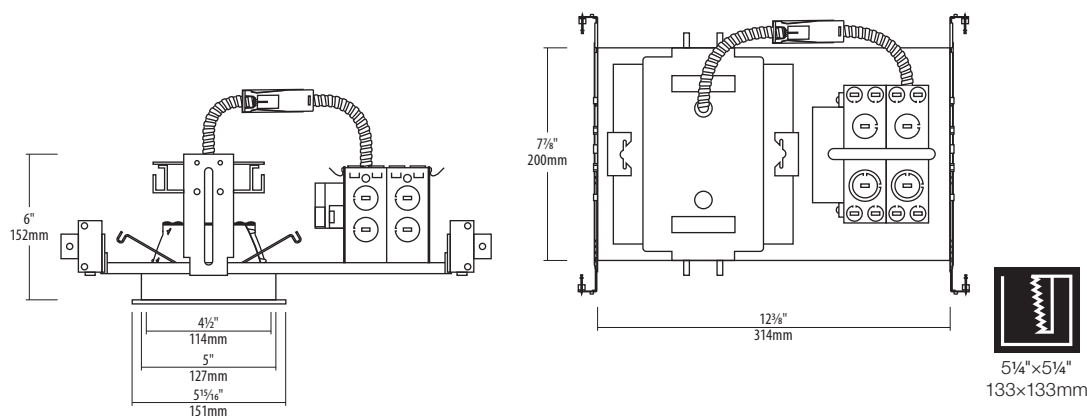
Job Information

Project Name	
Type	
Location	
Quantity	
Date	

Description

This 4" LED luminaire kit includes a flat frame and square trim, combined with high power LED and dimmable driver options. The luminaire reduces operating costs and provides maintenance-free operation.

Technical Drawings



SPECIFICATION

Aperture	4"
Approved Location	Damp
Application	Recessed
Certification	cETLus
CRI	85
Dimming	YES
Hole Cut Size	5 1/4" x 5 1/4" (133mm x 133mm)
Lumen per watt	Typical 85
Lumen Maintenance	70% @ 50,000 hrs
Power Factor	>0.9
Power Supply Type	Constant Current
THD	<20%

Ordering Guide

ALRS401	Delivered Lumens Per Head ¹	Color Temp.	Beam Angle	Reflector Finish	Trim Ring Color	Driver Options
	15: 1250 lm (16W) 26: 1800 lm (22W)	27: 2700 K 30: 3000 K 35: 3500 K 40: 4000 K 65: 6500 K	W: Wide Beam Spread	HC: Semi-Specular	WH: White BK: Black	Blank: Standard 120V Input (TRIAC/ELV/0-10V) 2: 277V Input, 0-10V dimming 3E: 347V Input, rated -40°C, 0-10V dimming B1: Rated -40°C, 120V Input, 0-10V dimming B2: Rated -40°C, 277V Input, 0-10V dimming L1: Lutron EcoSystem, 120V Input L2: Lutron EcoSystem, 277V Input E1: Emergency Backup, 120V Input E2: Emergency Backup, 277V Input Q1: Casambi enabled driver, 120V Input Q2: Casambi enabled driver, 277V Input CUST: Custom



Highlighted option denotes quick ship.

Notes:

¹ Delivered lumens provided are based on 3000 K with wide reflector.

Quick Ship option is available on orders of 75 pieces or less, and will ship within 5 business days. Options must be selected from Quick Ship section to qualify.

For additional options please consult your A-Line representative. All trademarks are the property of their respective owners. Lutron and EcoSystem are trademarks of Lutron Electronics Co., Inc. Casambi is a trademark of Casambi Technologies.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

Features

Mounting Frame

Constructed of 22ga galvanized steel for optimum rigidity. The frame includes a mounting ring that accommodates up to 1¼" (32mm) ceiling thickness. Hanger bars installed on short side.

Junction Box

Listed for through branch circuit wiring. Maximum of eight 12 AWG 90°C branch-circuit connections (four in and four out). Ten ½" knockouts with true pry-out slots and eight knockouts with Romex® cable clamp. Ground wire is provided on J-Box. Push-in connectors provided for 0-10V wiring.

Hanger Bars

Rigid hanger bars extend up to 25" (635mm). Score lines on the hanger bars allow for tool-less shortening down to 12" (305mm). Built-in line-up foot allows for accurate housing height during installation. Integrated T-bar clips easily

snap onto T-bars. Optional C-channel bracket kit accepts C-channel and EMT conduit. Vertically adjustable.

System Protection

Integral thermal protection provided to avoid overheating or improper installation. Mounted to the junction box and will disconnect if insulation is detected. Insulation must maintain 3" (76mm) clearance from top or sides.

Quick Disconnect

Included to allow for easy installation of the LED engine and reflector.

LED Optics

Integrated soft lens provides visual comfort.

Reflector

Constructed of spun aluminum, the reflector provides precision distribution of light with low glare. The square

construction of the reflector produces a 90° cut-off for a more defined output. The reflector includes two butterfly clips that pull the trim flush to the ceiling.

LED Characteristics

Fixed CCT high power CREE® LED chips maintain uniform intensity with a typical 85 CRI.

Dimming

Multiple dimming options are available. 100-10% dimming with TRIAC/ELV and down to 1% with 0-10V compatible devices. Consult factor for compatible dimmers.

Thermal Performance

Extruded aluminum heat sink ensures optimal heat dissipation and LED life.

LED Driver

Junction box mounted for ease of maintenance, the LED driver features a

power factor larger than 0.9, and THD of less than 20%. See LED Driver Options for more specific details.

Environment

Suitable for use in damp locations.

Warranty

7-year warranty.

LED Driver Options

Standard : TRIAC/ELV dimming for 120V only. Dimming to 1% over 0-10V.

(3E) 347V : Dimming to 1% over 0-10V.

(B) Rated -40 : Low temperature driver operation. Dimming to 1% over 0-10V.

(L) Lutron EcoSystem : Suitable for integration into a planned or existing EcoSystem® lighting control solution. Dimming down to 1% with compatible controls. 40W max.

(E) Emergency Backup : Integrated emergency battery with switchable output of 5W for 180 minutes, or 10W for 90 minutes of operation during an outage. 40W max.

(Q) Casambi Enabled : Casambi wireless module included. Wireless dimming to 1% provided over 0-10V signal from module.

(CUST) Custom : Custom options may be available upon factory request.

Accessories



P-CBKT

C-Channel bracket kit, for use with flat frame housings.

Photometry

CCT Correction Factors :

Baseline lumens = 3000 K

Multiply 3000 K lumen values by:

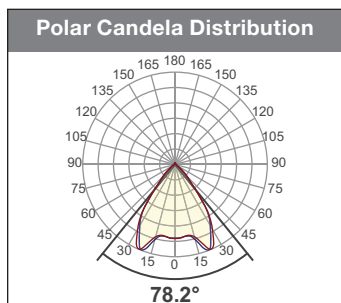
0.95 for 2700 K

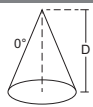
1.10 for 3500 K

1.15 for 4000 K

1.20 for 6500 K

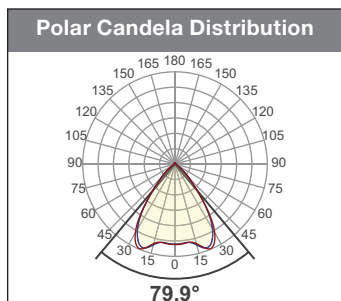
ALRS401-1530W : 4" SQUARE FLAT FRAME LED LUMINAIRE, WIDE BEAM SPREAD, 3000 K, 16W

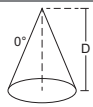


Beam Details					
					
D	Lux	FC	L	W	
4'	452	42	6.5'	6.5'	
8'	113	11	13'	13'	
12'	50	5	19.5'	19.5'	
16'	28	3	26'	26'	
20'	18	2	32.5'	32.5'	

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	630.2	48.8%
0-40	993.9	76.9%
0-60	1,210.0	93.7%
60-90	35.4	2.7%
70-100	24.4	1.9%
90-120	17.1	1.3%
0-90	1,245.4	96.4%
90-180	46.2	3.6%
0-180	1,291.6	100%

ALRS401-2630W : 4" SQUARE FLAT FRAME LED LUMINAIRE, WIDE BEAM SPREAD, 3000 K, 22W



Beam Details					
					
D	Lux	FC	L	W	
4'	659	61	6.7'	6.7'	
8'	165	15	13.4'	13.4'	
12'	73	7	20.1'	20.1'	
16'	41	4	26.8'	26.8'	
20'	26	2	33.5'	33.5'	

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	878.4	47.8%
0-40	1,388.0	75.5%
0-60	1,726.9	94%
60-90	49.7	2.7%
70-100	32.6	1.8%
90-120	21.3	1.2%
0-90	1,776.6	96.7%
90-180	60.6	3.3%
0-180	1,837.2	100%