

## ALR601



### 6" LED Flat Frame Recessed Luminaire, NON-IC Recessed Lighting

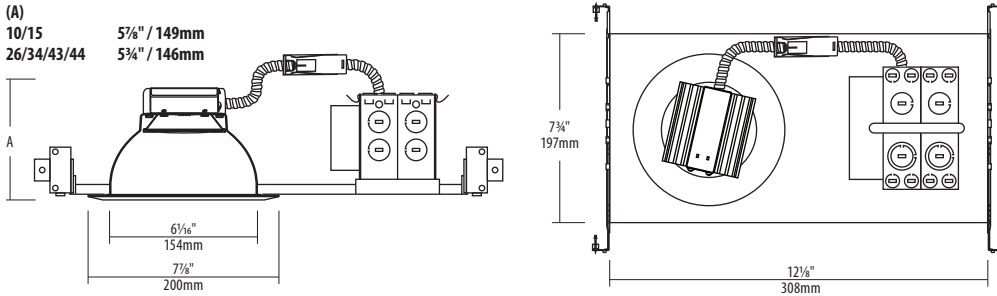
Job Information	
Project Name	
Type	
Location	
Quantity	
Date	

#### Description

This fixture is a 6" LED luminaire with flat frame, combining high power LED with dimmable driver and a high grade aluminum reflector. The luminaire reduces operating costs and provides maintenance-free operation.




#### Technical Drawings



SPECIFICATION	
Aperture	6"
Application	Recessed
Approved Location	Damp
Certification	cETLus
CRI	85
Dimming	YES
Lumen per watt	Typical 85
Lumen Maintenance	70% @ 50,000 hrs
Power Factor	>0.9
Power Supply Type	Constant Current
THD	<20%

#### Ordering Guide

Source Light Output <sup>1</sup>	Color Temp.	Beam Angle	Reflector Finish	Trim Ring Finish	Lens Options	Driver Options
<b>ALR601</b>						
 <b>10</b> : 1100 lm (13W) <b>15</b> : 1350 lm (16W) <b>26</b> : 1900 lm (22W) <b>34</b> : 2900 lm (34W) <b>43</b> : 3600 lm (46W) <b>44</b> : 4000 lm (46W)	<b>27</b> : 2700 K <b>30</b> : 3000 K <b>35</b> : 3500 K <b>40</b> : 4000 K <b>65</b> : 6500 K	<b>W</b> : Wide (74°) <b>N</b> : Narrow (33°) <b>Z</b> : Wall Wash Kick-Plate <sup>2</sup>	<b>HC</b> : Semi-specular <b>WH</b> : White <b>HB</b> : Semi-specular with Black Baffle <sup>3</sup> <b>HW</b> : Semi-specular with White Baffle <sup>3</sup> <b>WB</b> : White with Black Baffle <sup>3</sup> <b>WW</b> : White with White Baffle <sup>3</sup>	<b>WH</b> : White <b>WP</b> : White Plastic <b>BK</b> : Black <b>CH</b> : Chrome <b>MN</b> : Matte Nickel <b>SN</b> : Satin Nickel <b>UN</b> : Natural Steel	<b>Blank</b> : No Lens <b>A</b> : Albalite Lens <sup>4</sup> <b>F</b> : Fresnal Lens <sup>4</sup> <b>S</b> : All Sanded Lens <sup>4</sup>	<b>Blank</b> : Standard 120V Input (TRIAC/ELV/0-10V) <b>2</b> : 277V Input, 0-10V dimming <b>3E</b> : 347V Input, rated -40°C, 0-10V dimming <b>B1</b> : Rated -40°C, 120V Input, 0-10V dimming <b>B2</b> : Rated -40°C, 277V Input, 0-10V dimming <b>L1</b> : Lutron EcoSystem, 120V Input <sup>5</sup> <b>L2</b> : Lutron EcoSystem, 277V Input <sup>5</sup> <b>E1</b> : Emergency Backup, 120V Input <sup>6</sup> <b>E2</b> : Emergency Backup, 277V Input <sup>6</sup> <b>Q1</b> : Casambi enabled driver, 120V Input <b>Q2</b> : Casambi enabled driver, 277V Input <b>CUST</b> : Custom
<b>araya</b> <sup>5</sup> TUNABLE COLOR <b>C2</b> : 1000 lm (20W) <b>C3</b> : 1700 lm (30W)	<b>CT</b> : Araya5 Color Tunable	<b>W</b> : Wide (74°)	Select from above	Select from above	Select from above	<b>T1</b> : Color Tuning Control, 120V Input <b>T0</b> : Dual 0-10V Control, 120V Input <b>T2</b> : Color Tuning Control, 277V Input <b>TD</b> : Dual 0-10V Control, 277V Input

#### Notes:

<sup>1</sup> Delivered lumens provided are based on 3000 K with wide reflector. <sup>2</sup> Semi-specular (HC) only, cannot be combined with lens. <sup>3</sup> Baffles are not available on narrow reflectors. <sup>4</sup> Requires baffle. <sup>5</sup> Lutron drivers available up to 40W max. <sup>6</sup> Emergency backup available up to 40W max.

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.

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## Features

### Mounting Frame

Constructed of 22ga galvanized steel for optimum rigidity. Accommodates up to 5/8" (16mm) ceiling thicknesses. Reflector firmly held in place with dimpled spring clips. Hanger bars installed on short side.

### Junction Box

Listed for through branch circuit wiring. Maximum of eight no. 12 AWG 90°C branch-circuit connections (four in and four out). Ten 1/2" knockouts with true pry-out slots and eight knockouts with Romex® cable clamp. Ground wire is provided on J-Box. Block 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.

### System Protection

Integral thermal protection provided to avoid overheating or improper installations. 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. Optional lenses are available with an included baffle.

### Reflector

Constructed of spun aluminum, the

reflector provides precision distribution of light with low glare.

### LED Characteristics

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

### Color Tuning LED Characteristics

Colour tuning available with Araya5 color tuning module. Full spectrum tuning, 90+ CRI, 1650-8000 K tunable range and DTW function available from 3000-1800 K. Full spectrum control through "Araya" mobile app available from the App Store (iOS only). Without app, tunable white and dimming control is available over two separate 0-10V signals.

### Dimming

Multiple dimming options are available.

100-10% dimming with TRIAC/ELV and down to 1% with 0-10V compatible devices. Consult factory 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.

**(T1/T2) Color Tuning Control** : App controlled color tuning. Dimming to 1% through app.

**(T0/TD) Dual 0-10V Control** : Required for separate 0-10V control of tunable white and dimming. Dimming to 1% over 0-10V.

## Photometry

### CCT Correction Factors :

Baseline lumens = 3000 K

Multiply 3000 K lumen values by:

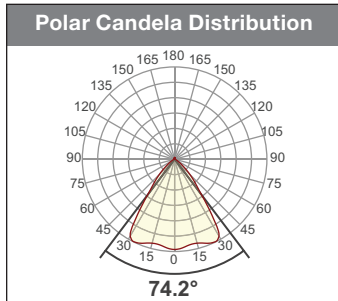
0.95 for 2700 K

1.10 for 3500 K

1.15 for 4000 K

1.20 for 6500 K

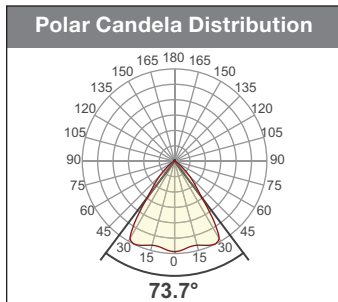
### ALR601-1030W : 6" QUICKCHANGE LED WITH FLAT FRAME, WIDE BEAM SPREAD, 3000 K, 13W



Beam Details				
D	Lux	FC	L	W
4'	468	43	6'	6'
8'	117	11	12.1'	12.1'
12'	52	5	18.1'	18.1'
16'	29	3	24.2'	24.2'
20'	19	2	30.2'	30.2'

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	580.6	51.9%
0-40	865.0	77.3%
0-60	1,045.7	93.5%
60-90	32.8	2.9%
70-100	19.0	1.7%
90-120	14.6	1.3%
0-90	1,078.5	96.4%
90-180	39.8	3.6%
0-180	1,118.3	100%

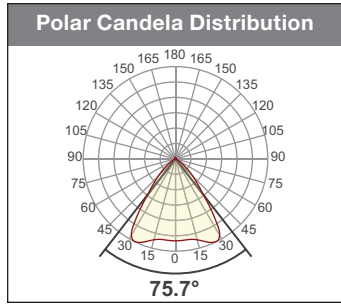
### ALR601-1530W : 6" QUICKCHANGE LED WITH FLAT FRAME, WIDE BEAM SPREAD, 3000 K, 16W



Beam Details				
D	Lux	FC	L	W
4'	559	52	6'	6'
8'	140	13	12'	12'
12'	62	6	18'	18'
16'	35	3	24'	24'
20'	22	2	30'	30'

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	693.6	52.1%
0-40	1,033.0	77.5%
0-60	1,248.5	93.7%
60-90	39.7	2.8%
70-100	21.3	1.6%
90-120	16.9	1.3%
0-90	1,286.2	96.5%
90-180	46.1	3.5%
0-180	1,332.3	100%

ALR601-2630W : 6" QUICKCHANGE LED WITH FLAT FRAME, WIDE BEAM SPREAD, 3000 K, 22W



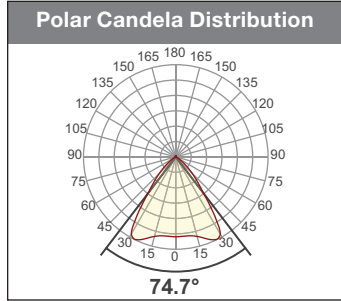
**Beam Details**

D	Lux	FC	L	W
4'	706	66	6.2'	6.2'
8'	176	16	12.4'	12.4'
12'	78	7	18.7'	18.7'
16'	44	4	24.9'	24.9'
20'	28	3	31.1'	31.1'

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	942.9	49.7%
0-40	1,438.3	75.8%
0-60	1,779.4	93.8%
60-90	56.7	3%
70-100	28.9	1.5%
90-120	20.7	1.1%
0-90	1,836.1	96.8%
90-180	60.4	3.2%
0-180	1,896.6	100%

ALR601-3430W : 6" QUICKCHANGE LED WITH FLAT FRAME, WIDE BEAM SPREAD, 3000 K, 34W



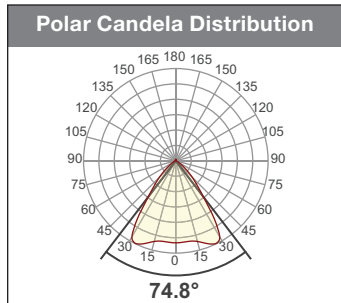
**Beam Details**

D	Lux	FC	L	W
4'	1059	98	6.1'	6.1'
8'	265	25	12.2'	12.2'
12'	118	11	18.3'	18.3'
16'	66	6	24.4'	24.4'
20'	42	4	30.5'	30.5'

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	1,436.5	50.5%
0-40	2,183.0	76.8%
0-60	2,678.2	94.2%
60-90	78.5	2.8%
70-100	39.3	1.4%
90-120	28.6	1%
0-90	2,756.7	97%
90-180	86.2	3%
0-180	2,843.0	100%

ALR601-4330W : 6" QUICKCHANGE LED WITH FLAT FRAME, WIDE BEAM SPREAD, 3000 K, 46W



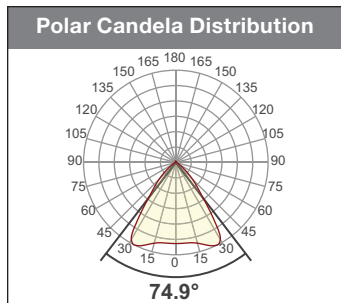
**Beam Details**

D	Lux	FC	L	W
4'	1414	131	6.1'	6.1'
8'	353	33	12.2'	12.2'
12'	157	15	18.4'	18.4'
16'	88	8	24.5'	24.5'
20'	57	5	30.6'	30.6'

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	1,881.0	51.1%
0-40	2,838.6	77.1%
0-60	3,477.4	94.5%
60-90	100.3	2.7%
70-100	47.4	1.3%
90-120	31.8	0.9%
0-90	3,577.7	97.2%
90-180	102.2	2.8%
0-180	3,680.0	100%

ALR601-4430W : 6" QUICKCHANGE LED WITH FLAT FRAME, WIDE BEAM SPREAD, 3000 K, 46W



**Beam Details**

D	Lux	FC	L	W
4'	1520	141	6.1'	6.1'
8'	380	35	12.3'	12.3'
12'	169	16	18.4'	18.4'
16'	95	9	24.5'	24.5'
20'	61	6	30.7'	30.7'

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	2,047.8	50.9%
0-40	3,099.6	77.1%
0-60	3,797.7	94.5%
60-90	109.4	2.7%
70-100	52.2	1.3%
90-120	35.6	0.9%
0-90	3,907.1	97.2%
90-180	112.5	2.8%
0-180	4,019.6	100%