

ALR8

8" QuickChange LED Retrofit Kit, NON-IC
Recessed Lighting

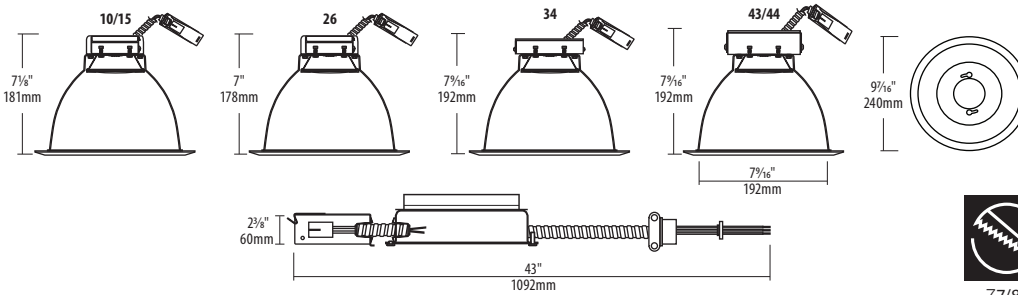


Job Information	
Project Name	
Type	
Location	
Quantity	
Date	

Description

The ALR8 is a series of commercial and architectural grade LED retrofit kits, combining high power LED with integral dimmable driver and a high grade aluminum reflector. Used to convert existing commercial incandescent, HID and CFL downlight to an LED technology that will reduce operating costs and provides maintenance-free operation.

Technical Drawings



SPECIFICATION

Aperture	8"
Application	Recessed
Approved Location	Damp
Certification	cETLus
CRI	85
Dimming	YES
Hole Cut Size	7 7/8" (200mm)
Lumen per watt	Typical 85
Lumen Maintenance	70% @ 50,000 hrs
Power Factor	>0.9
Power Supply Type	Constant Current
THD	<20%

Ordering Guide

ALR8	Source Light Output ¹	Color Temp.	Beam Angle	Reflector Finish	Trim Ring Finish	Driver Option
	10 : 1100 lm (13W) 15 : 1350 lm (16W) 26 : 1900 lm (22W) 34 : 2900 lm (34W) 43 : 3600 lm (46W) 44 : 4000 lm (46W)	27 : 2700 K 30 : 3000 K 35 : 3500 K 40 : 4000 K 65 : 6500 K	W : Wide (77°) N : Narrow (24°) Z : Wall Wash Kick-Plate ²	HC : Semi-specular WH : White	WH : White WP : White Plastic BK : Black CH : Chrome MN : Matte Nickel SN : Satin Nickel UN : Natural Steel	Blank : Standard 120V Input (TRIAC/ELV) 2 : 277V Input 0 : 120V Input, 0-10V dimming 20 : 277V Input, 0-10V dimming 3E : 347V Input, rated -40°C 3E0 : 347V Input, rated -40°C, 0-10V dimming B10 : Rated -40°C, 120V Input, 0-10V dimming B20 : Rated -40°C, 277V Input, 0-10V dimming L1 : Lutron EcoSystem, 120V Input ³ L2 : Lutron EcoSystem, 277V Input ³ E1 : Emergency Backup, 120V Input ⁴ E2 : Emergency Backup, 277V Input ⁴ Q1 : Casambi enabled driver, 120V Input Q2 : Casambi enabled driver, 277V Input CUST : Custom
	C2 : 1000 lm (20W) C3 : 1700 lm (30W)	CT : Araya5 Color Tunable	W : Wide (77°)	Select from above	Select from above	T1 : Color Tuning Control, 120V Input T0 : Dual 0-10V Control, 120V Input T2 : Color Tuning Control, 277V Input TD : Dual 0-10V Control, 277V Input

Notes:

¹ Delivered lumens provided are based on 3000 K with wide reflector. ² Semi-specular (HC) only, cannot be combined with lens. ³ Lutron drivers available up to 40W max. ⁴ 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.

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

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

Color 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.

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.

Environment

Suitable for use in damp locations.

Warranty

7-year warranty

LED Driver Options

Standard : TRIAC/ELV dimming for 120V only, 100-10% dimming. Dimming over 0-10V is optional, but required for 277V and 347V dimming.

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

(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.

Compatible Housings

The ALR8 series is cETLus classified for use in most industry standard 8" luminaires including:

A-Line : A8301, A8302, A8306, A8401, A8402, A8406, A8501, A8502, A8506, A8601, A8602, A8606

Halo : PD7V142E, PD7V120, PD7V501E, PD7V701E, PD7V1001E, PD7V70X1E, PD7V100X1E

Juno : CV8-126/32/42T, TC908, MX8-(70, 100), M8-(70, 100)

Lithonia : LP8F, CCR82, LP8H, LP8

Photometry

CCT Correction Factors :

Baseline lumens = 3000 K

Multiply 3000 K lumen values by:

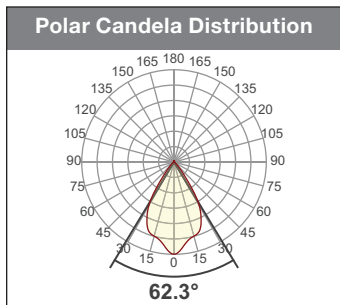
0.95 for 2700 K

1.10 for 3500 K

1.15 for 4000 K

1.20 for 6500 K

ALR8-1030W : 8" QUICKCHANGE LED RETROFIT KIT, WIDE BEAM SPREAD, 3000 K, 13W



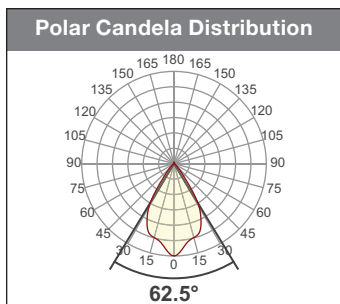
Beam Details

D	Lux	FC	L	W
4'	764	71	4.8'	4.8'
8'	191	18	9.7'	9.7'
12'	85	8	14.5'	14.5'
16'	48	4	19.4'	19.4'
20'	31	3	24.2'	24.2'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	727.6	66.1%
0-40	946.7	86%
0-60	1,032.1	93.8%
60-90	25.4	2.3%
70-100	17.9	1.6%
90-120	15.7	1.4%
0-90	1,057.6	96.1%
90-180	43.2	3.9%
0-180	1,100.7	100%

ALR8-1530W : 8" QUICKCHANGE LED RETROFIT KIT, WIDE BEAM SPREAD, 3000 K, 16W



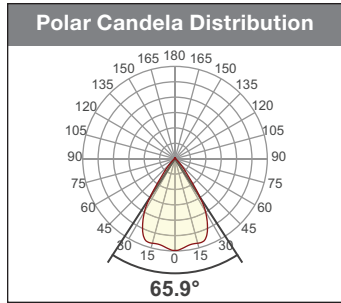
Beam Details

D	Lux	FC	L	W
4'	918	85	4.9'	4.9'
8'	230	21	9.7'	9.7'
12'	102	9	14.6'	14.6'
16'	57	5	19.4'	19.4'
20'	37	3	24.3'	24.3'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	871.6	66.6%
0-40	1,132.8	86.5%
0-60	1,233.6	94.2%
60-90	28.5	2.2%
70-100	19.4	1.5%
90-120	16.4	1.3%
0-90	1,262.1	96.4%
90-180	47.3	3.6%
0-180	1,309.4	100%

ALR8-2630W : 8" QUICKCHANGE LED RETROFIT KIT, WIDE BEAM SPREAD, 3000 K, 22W



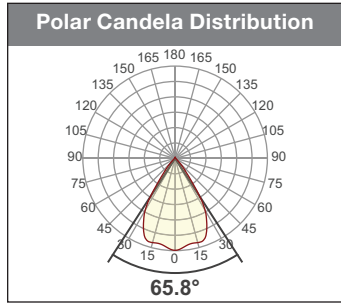
Beam Details

D	Lux	FC	L	W
4'	1106	103	5.2'	5.2'
8'	276	26	10.4'	10.4'
12'	123	11	15.5'	15.5'
16'	69	6	20.7'	20.7'
20'	44	4	25.9'	25.9'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,216.2	65.6%
0-40	1,603.1	86.5%
0-60	1,756.0	94.7%
60-90	37.6	2%
70-100	23.6	1.3%
90-120	19.2	1%
0-90	1,793.6	96.8%
90-180	60.1	3.2%
0-180	1,853.7	100%

ALR8-3430W : 8" QUICKCHANGE LED RETROFIT KIT, WIDE BEAM SPREAD, 3000 K, 34W



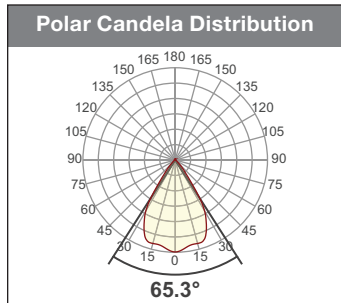
Beam Details

D	Lux	FC	L	W
4'	1690	157	5.2'	5.2'
8'	422	39	10.3'	10.3'
12'	188	17	15.5'	15.5'
16'	106	10	20.7'	20.7'
20'	68	6	25.9'	25.9'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,836.4	66.5%
0-40	2,413.0	87.3%
0-60	2,633.9	95.3%
60-90	49.5	1.8%
70-100	29.0	1.1%
90-120	23.5	0.9%
0-90	2,683.5	97.1%
90-180	79.2	2.9%
0-180	2,762.6	100%

ALR8-4330W : 8" QUICKCHANGE LED RETROFIT KIT, WIDE BEAM SPREAD, 3000 K, 46W



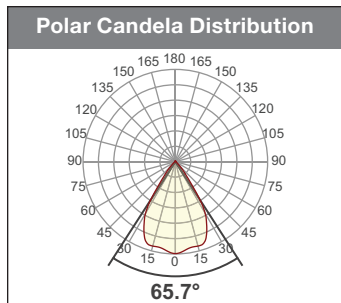
Beam Details

D	Lux	FC	L	W
4'	2235	208	5.1'	5.1'
8'	559	52	10.3'	10.3'
12'	248	23	15.4'	15.4'
16'	140	13	20.5'	20.5'
20'	89	8	25.6'	25.6'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,401.0	67.2%
0-40	3,132.7	87.6%
0-60	3,411.4	95.4%
60-90	63.3	1.8%
70-100	35.9	1%
90-120	27.8	0.8%
0-90	3,474.7	97.2%
90-180	99.8	2.8%
0-180	3,574.5	100%

ALR8-4430W : 8" QUICKCHANGE LED RETROFIT KIT, WIDE BEAM SPREAD, 3000 K, 46W



Beam Details

D	Lux	FC	L	W
4'	2431	226	5.2'	5.2'
8'	608	56	10.3'	10.3'
12'	270	25	15.5'	15.5'
16'	152	14	20.6'	20.6'
20'	97	9	25.8'	25.8'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,634.8	66.9%
0-40	3,450.6	87.6%
0-60	3,761.5	95.4%
60-90	70.4	1.8%
70-100	39.4	1%
90-120	30.2	0.8%
0-90	3,831.9	97.2%
90-180	109.0	2.8%
0-180	3,940.9	100%