

## REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G103961645

Date: June 3, 2019

REPORT NO. 103961645LAX-003

TEST OF ONE LED LUMINAIRE

MODEL NO. ALD-R-300W-LV-30K-T3  
LED MODEL NO. GWP9LR34.PM-M2M3  
DRIVER MODEL NO. EUD-320S670DT  
RETROFIT MODEL NO. LITHONIA KAD CONTOUR SERIES

RENDERED TO

SIMPLYLEDs LLC  
111 W. 34TH STREET  
GARDEN CITY, IDAHO, 83714

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00983281.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE: The client submitted one production sample of model number ALD-R-300W-LV-30K-T3. The sample was received by Intertek on March 19, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN1903191345-010.

DATES OF TESTS: June 3, 2019

## SUMMARY

Model No.: ALD-R-300W-LV-30K-T3 Description: LED Luminaire
---

Criteria	Result
Total Lumen Output (Lumens)	34733
Total Power (W)	297.8
Luminaire Efficacy (LPW)	116.6
Power Factor	0.999
BUG Rating	B3-U0-G4
IES Classification	Type III
Longitudinal Classification	Short

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	06/03/19
AC Source	CW1251P	000944	VBU	VBU	06/03/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	06/03/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	06/03/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	06/03/19

## TEST METHODS

### Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79.

### Photometric and Electrical Measurements – Distribution Method

A LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

### BUG Ratings (Backlight, Uplight, Glare) – for Outdoor Fixtures Only

Zonal Lumens were calculated and grouped using the formula in IESNA TM-15-11 for each zone as defined in the BUG addendum. The maximum lumen rating in each zone was compared against the BUG zonal requirements of Energy Star. Photometric Toolbox software was used to calculate results.

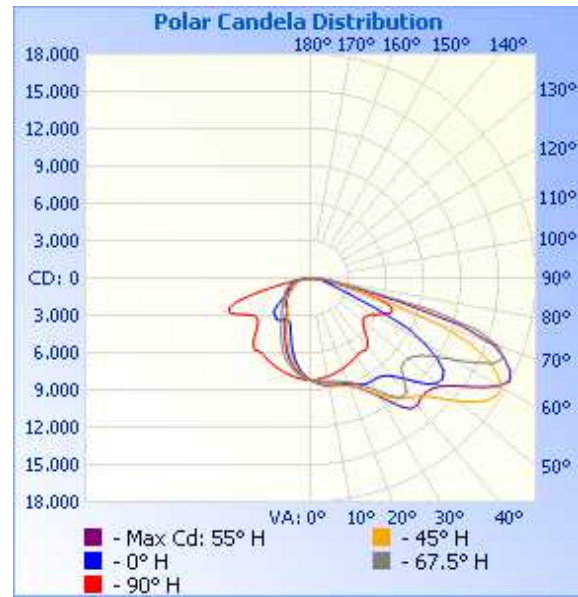
## RESULTS OF TEST

### Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Current ATHD	Absolute Luminous Flux (Lumens)	Lumen Efficacy (LPW)
LAN1903191345-010	UP	120.0	2486	297.8	0.999	4.76	34733	116.6
		277.0	1109	292.4	0.952	11.55		

### Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	25	45	67.5	90
0	8184	8184	8184	8184	8184
5	8550	8543	8456	8321	8131
10	8735	8746	8659	8428	8012
15	8834	8893	8885	8598	7859
20	9012	9131	9239	8929	7680
25	9426	9601	9831	9519	7489
30	9628	10042	10802	10388	7274
35	9672	10131	11776	11662	7188
40	10316	10533	12488	11947	7108
45	11725	11712	13494	10286	6184
50	13167	13551	15362	10098	5479
55	12993	14276	17156	10835	5367
60	10574	12923	17597	13045	5847
65	5936	9955	15625	16202	6773
70	2232	5149	11042	15956	6896
75	1422	3856	4159	10137	4311
80	912	2327	2113	2599	1464
85	437	756	1038	1030	510
90	0	0	0	0	0



## RESULTS OF TEST (cont'd)

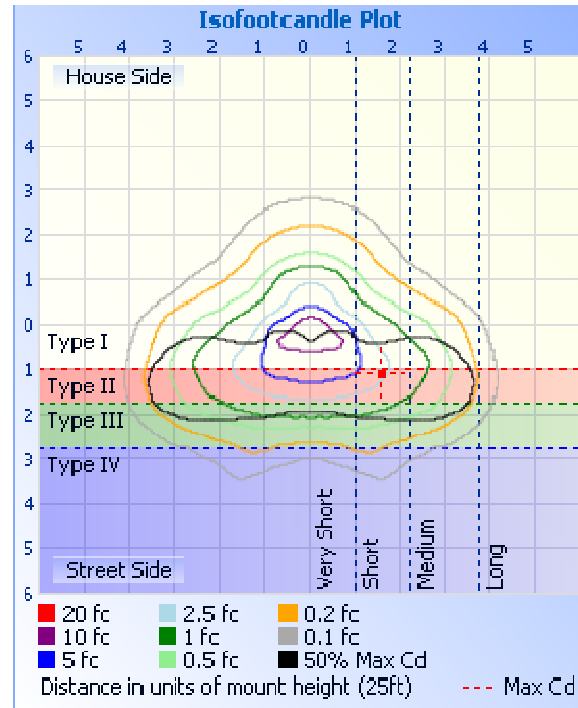
### Illumination Plots

Mounting Height: 25 ft.

Illuminance - Cone of Light



Isoillumination Plot



### Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	6226	17.9
0-40	10835	31.2
0-60	23558	67.8
60-90	11175	32.2
0-90	34733	100.0
90-180	0.0	0.0
0-180	34733	100.0

### Luminaire Classification System (LCS)

LCS	Zone	Lumens	% Luminaire
FL	(0-30)	3829.0	11.0
FM	(30-60)	13410.3	38.6
FH	(60-80)	8500.2	24.5
FVH	(80-90)	477.6	1.4
BL	(0-30)	2398.8	6.9
BM	(30-60)	3920.3	11.3
BH	(60-80)	1915.8	5.5
BVH	(80-90)	283.5	0.8
UL	(90-100)	0.0	0.0
UH	(100-180)	0.0	0.0

### Zonal Lumens and Percentages at 25°C

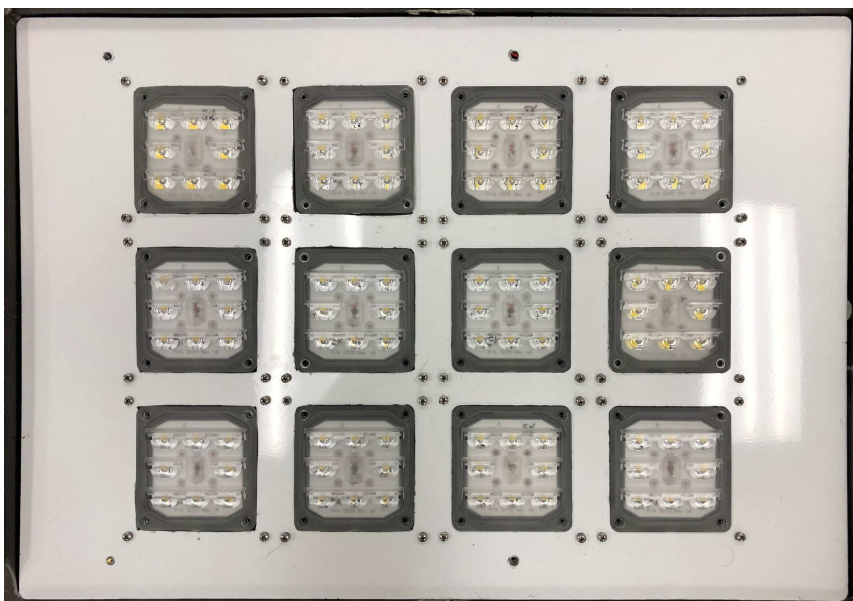
Zone	Lumens	% Luminaire
0-10	767.5	2.2
10-20	2145	6.2
20-30	3314	9.5
30-40	4609	13.3
40-50	5800	16.7
50-60	6923	19.9
60-70	6810	19.6
70-80	3604	10.4
80-90	761.0	2.2

BUG Rating: B3-U0-G4

IES Classification: Type III

Longitudinal Classification: Short

PICTURES (not to scale)



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

A handwritten signature in black ink, appearing to read 'Erik Linares'.

Erik Linares  
Associate Engineer  
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Vladimir Kozak'.

Vladimir Kozak  
Engineering Supervisor  
Lighting Division