

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G103961645

Date: June 10, 2019

REPORT NO. 103961645LAX-004

TEST OF ONE LED LUMINAIRE

MODEL NO. ALD-R-300W-LV-30K-TF
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-TF. 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 10, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	37080
Total Power (W)	297.3
Luminaire Efficacy (LPW)	124.7
Power Factor	0.999
BUG Rating	B5-U0-G1
IES Classification	Type VS
Longitudinal Classification	Very Short

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	06/10/19
AC Source	CW1251P	000944	VBU	VBU	06/10/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	06/10/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	06/10/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	06/10/19

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.

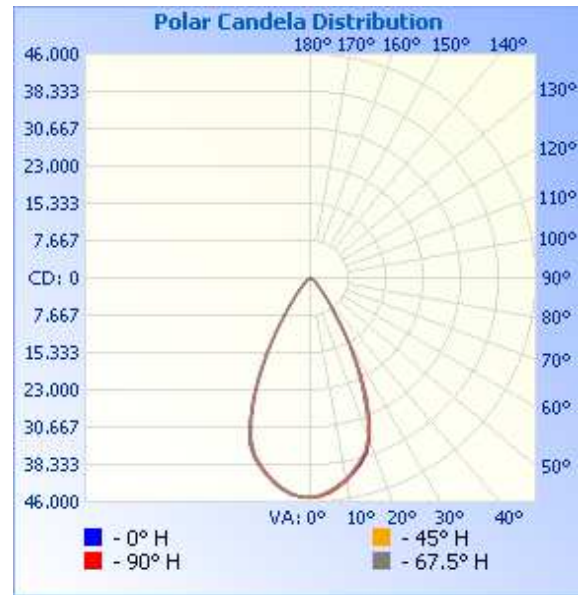
RESULTS OF TEST

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	120.1	2480	297.3	0.998	4.55	37080	124.7
		277.0	1109	292.4	0.952	11.55		

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	25	45	67.5	90
0	45085	45085	45085	45085	45085
5	43895	43944	43912	44122	44378
10	41798	41860	41680	41859	42365
15	39324	39182	38879	38929	39615
20	34447	34401	34413	34843	35359
25	25315	25531	25935	26540	27112
30	16004	15809	16012	16486	17162
35	8160	8093	8260	8506	8826
40	4025	3993	4067	4159	4360
45	2065	2088	2093	2168	2252
50	1405	1378	1407	1422	1459
55	1013	990	1030	1066	1103
60	741	711	750	771	839
65	539	514	572	575	608
70	398	424	467	482	478
75	325	370	401	420	404
80	173	272	321	287	216
85	47	110	124	129	72
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

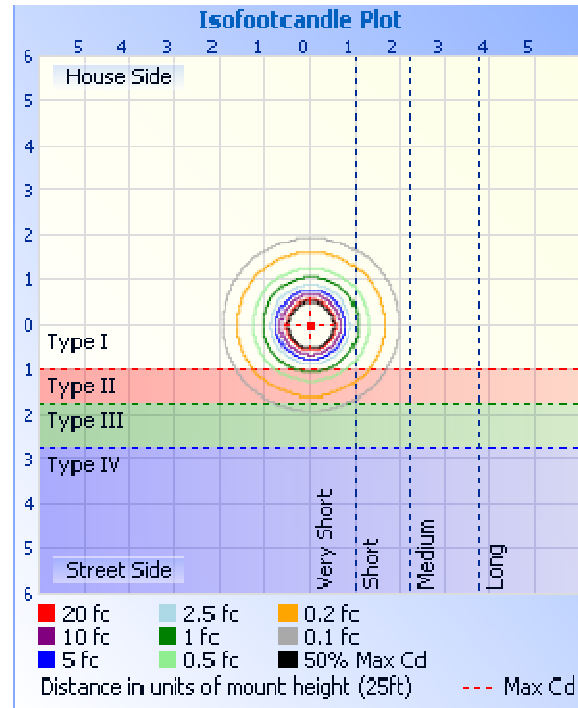
Illumination Plots

Mounting Height: 25 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	27248	73.5
0-40	33072	89.2
0-60	35943	96.9
60-90	1137	3.1
0-90	37080	100.0
90-180	0.0	0.0
0-180	37080	100.0

Luminaire Classification System (LCS)

LCS	Zone	Lumens	% Luminaire
FL	(0-30)	13367.3	36.0
FM	(30-60)	4124.9	11.1
FH	(60-80)	483.4	1.3
FVH	(80-90)	62.4	0.2
BL	(0-30)	13920.0	37.5
BM	(30-60)	4588.9	12.4
BH	(60-80)	516.8	1.4
BVH	(80-90)	74.4	0.2
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	4162	11.2
10-20	11040	29.8
20-30	12046	32.5
30-40	5823	15.7
40-50	1901	5.1
50-60	970.3	2.6
60-70	588.1	1.6
70-80	411.9	1.1
80-90	136.8	0.4

BUG Rating: B5-U0-G1

IES Classification: Type VS

Longitudinal Classification: Very 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:



Erik Linares
Associate Engineer
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak
Engineering Supervisor
Lighting Division