



REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G103143275

Date: July 7, 2017

REPORT NO. 103143275LAX-001

TEST OF ONE LED LUMINAIRE

MODEL NO. AERO-LED35-LO-SAL
LED MODEL NO. SAMSUNG SLED-13-007
DRIVER MODEL NO. UNIVERSAL D15CC55UNVTW-C

RENDERED TO

PRUDENTIAL LIGHTING
1774 EAST 21ST STREET
LOS ANGELES, CA 90058-1008

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

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00710638-6.

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 Aero-LED35-LO-SAL. The sample was received by Intertek on June 28, 2017, in undamaged condition and one sample was tested as received. The sample designation was LAN1706281107-001.

DATES OF TESTS: July 7, 2017



SUMMARY

Model No.:	Aero-LED35-LO-SAL
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2130
Total Power (W)	17.70
Luminaire Efficacy (LPW)	120.3
Power Factor	0.989

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	06/30/17	07/30/17	07/07/17
AC Source	CW1251P	000944	VBU	VBU	07/07/17
Power Analyzer	WT210	000945	12/05/16	12/05/17	07/07/17
Tape Measure	33-428	001491	01/06/17	01/06/18	07/07/17
Magnetic Level	581-9	001610	09/28/16	09/28/17	07/07/17
Temp. & RH Meter	971	001178	12/22/16	12/22/17	07/07/17

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.

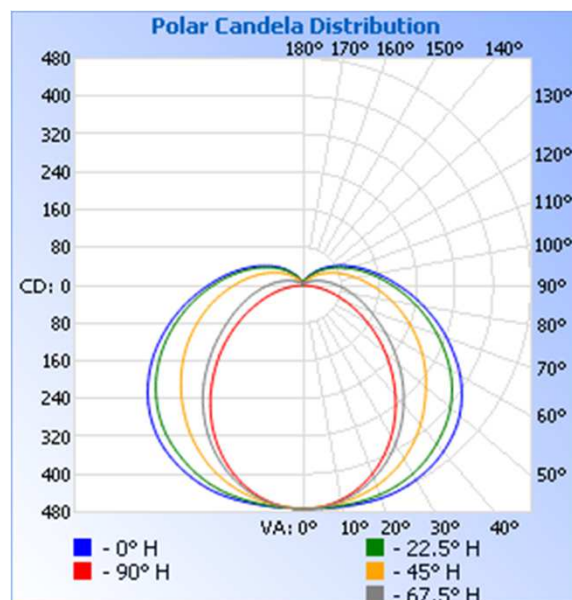
RESULTS OF TEST (cont'd)

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	Absolute Luminous Flux (Lumens)	Lumen Efficacy (LPW)
LAN1706281107-001	Up	119.9	149.2	17.70	0.989	2130	120.3

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	472	472	472	472	472
5	473	473	470	471	470
10	475	473	467	464	461
15	477	473	461	451	446
20	479	471	451	434	425
25	479	468	439	413	400
30	475	461	424	388	371
35	469	451	406	360	338
40	459	437	385	329	302
45	447	422	361	297	266
50	430	405	337	264	229
55	408	383	314	232	192
60	382	357	290	200	157
65	352	329	264	171	123
70	321	300	239	147	92
75	290	271	214	126	65
80	258	242	189	106	41
85	229	214	166	89	20
90	201	188	145	73	3
95	176	164	125	60	2
100	153	142	107	48	2
105	133	123	91	37	3
110	115	106	76	29	3
115	99	90	63	22	3
120	84	75	51	17	3
125	70	62	41	14	3
130	57	50	32	12	3
135	46	40	25	9	3
140	36	31	20	8	3
145	27	23	15	7	4
150	20	18	11	6	4
155	15	13	8	5	4
160	11	9	6	5	4
165	8	6	5	5	4
170	4	4	4	4	5
175	3	3	4	4	0



RESULTS OF TEST (cont'd)

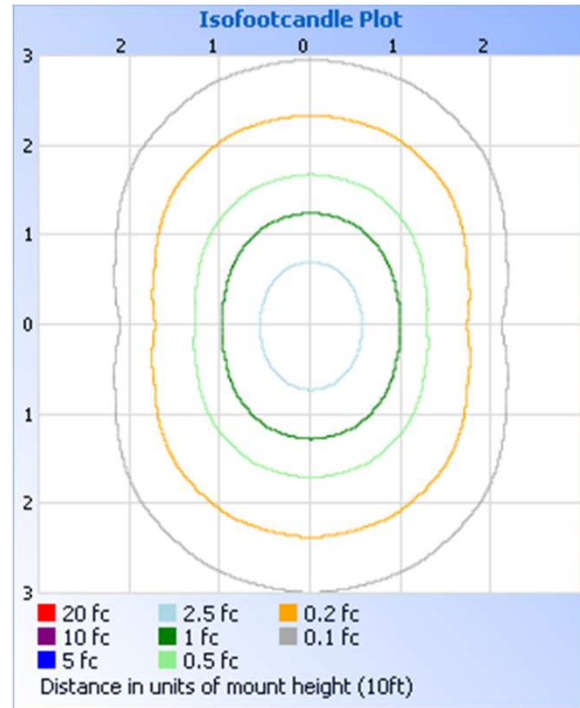
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	377.2	17.7
0-40	629.6	29.6
0-60	1179	55.4
60-90	617.8	29.0
0-90	1797	84.4
90-180	333	15.6
0-180	2130	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	44.8	2.1
10-20	130.2	6.1
20-30	202.2	9.5
30-40	252.4	11.9
40-50	276.1	13.0
50-60	273.2	12.8
60-70	247.6	11.6
70-80	207.9	9.8
80-90	162.3	7.6
90-100	120.3	5.6
100-110	85.1	4.0
110-120	56.5	2.7
120-130	34.9	1.6
130-140	19.6	0.9
140-150	9.9	0.5
150-160	4.5	0.2
160-170	1.6	0.1
170-180	0.4	0.0

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:



Ameet Alawi
Technician
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak
Engineering Supervisor
Lighting Division