



# REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G103179539

Date: August 7, 2017

REPORT NO. 103179539LAX-002

TEST OF ONE LED LUMINAIRE

MODEL NO. OLV-30-LED35-SO-FWA-D9  
LED MODEL NO. NICHIA NFSL757D  
DRIVER MODEL NO. OSRAM 79399

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 OLV-30-LED35-SO-FWA-D9. The sample was received by Intertek on August 3, 2017, in undamaged condition and one sample was tested as received. The sample designation was LAN1708030934-002.

DATES OF TESTS: August 7, 2017



## SUMMARY

Model No.:	OLV-30-LED35-SO-FWA-D9
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	6073
Total Power (W)	94.06
Luminaire Efficacy (LPW)	64.57
Power Factor	0.996

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	07/31/17	08/31/17	08/07/17
AC Source	CW1251P	000944	VBU	VBU	08/07/17
Power Analyzer	WT210	000945	12/05/16	12/05/17	08/07/17
Tape Measure	33-428	001491	01/06/17	01/06/18	08/07/17
Magnetic Level	581-9	001610	09/28/16	09/28/17	08/07/17
Temp. & RH Meter	971	001178	12/22/16	12/22/17	08/07/17

## 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.

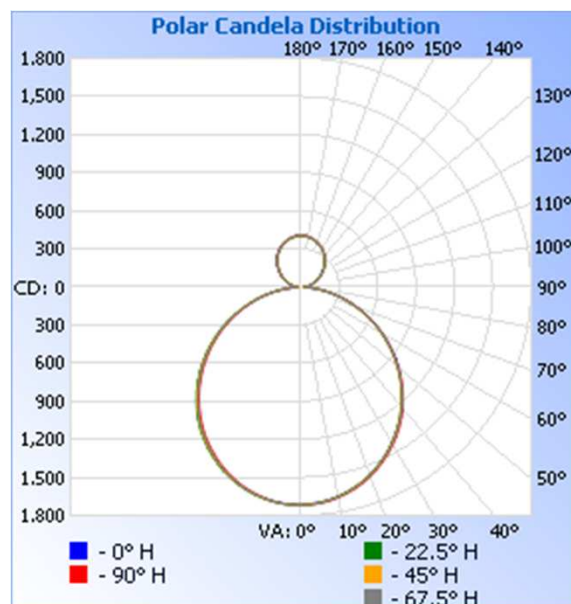
## RESULTS OF TEST (cont'd)

### 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)
LAN1708030934-002	Up	120.0	786.8	94.06	0.996	6073	64.57

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

Angle	0	22.5	45	67.5	90
0	1716	1716	1716	1716	1716
5	1701	1705	1705	1708	1709
10	1673	1674	1676	1680	1683
15	1630	1629	1633	1638	1642
20	1573	1572	1575	1581	1586
25	1502	1500	1505	1510	1516
30	1416	1418	1420	1428	1435
35	1327	1323	1327	1333	1342
40	1224	1217	1220	1227	1237
45	1108	1107	1107	1113	1123
50	994	985	985	990	1000
55	866	858	858	863	872
60	733	727	727	732	740
65	603	592	592	597	604
70	466	460	458	462	470
75	339	330	330	332	339
80	213	204	204	206	211
85	97	91	97	101	101
90	28	22	24	34	20
95	43	47	52	52	47
100	65	70	72	72	69
105	88	92	94	95	93
110	113	118	119	120	120
115	142	145	146	148	146
120	170	174	175	176	178
125	200	204	204	206	206
130	230	232	234	235	236
135	260	261	262	264	265
140	287	289	289	291	295
145	313	314	313	316	318
150	334	336	335	338	340
155	354	355	355	357	359
160	371	372	372	374	376
165	385	384	385	387	390
170	395	394	394	397	400
175	401	400	401	404	406
180	404	404	404	404	404



## RESULTS OF TEST (cont'd)

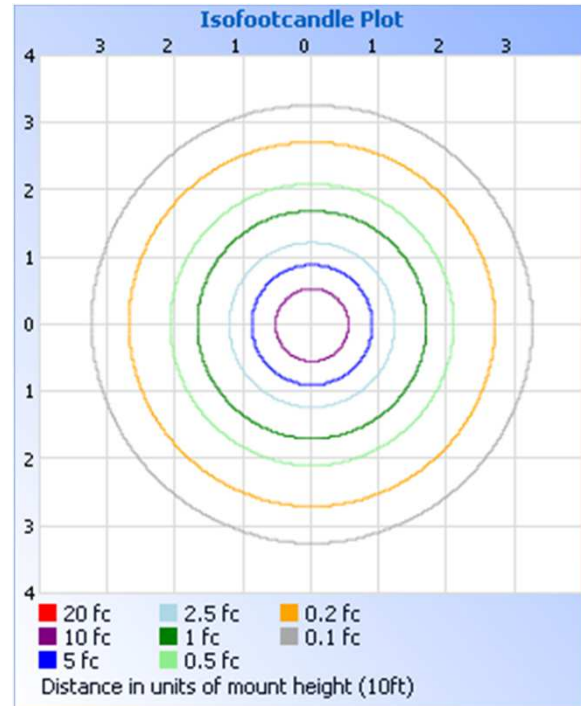
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



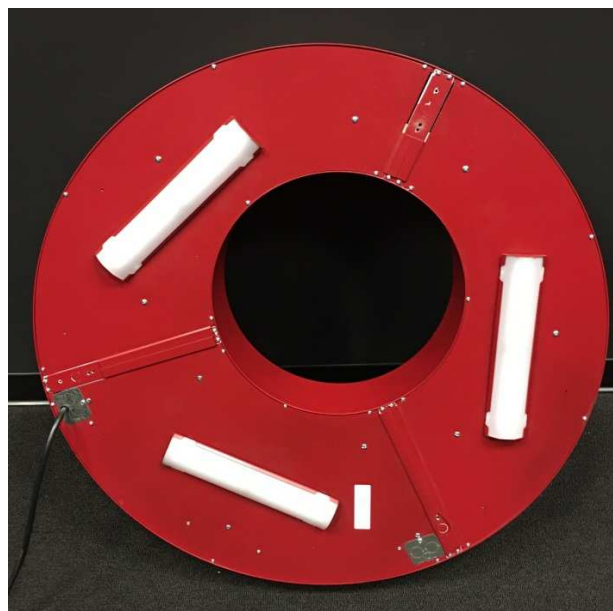
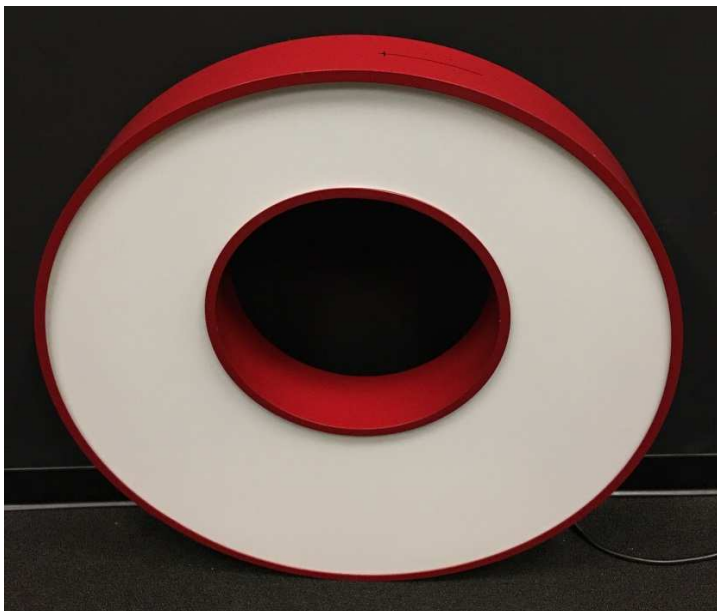
Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1325	21.8
0-40	2165	35.7
0-60	3816	62.8
60-90	1075	17.7
0-90	4891	80.5
90-180	1182	19.5
0-180	6073	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	162.2	2.7
10-20	463.2	7.6
20-30	699.4	11.5
30-40	840.5	13.8
40-50	868.1	14.3
50-60	783.0	12.9
60-70	601.8	9.9
70-80	359.7	5.9
80-90	113.3	1.9
90-100	52.3	0.9
100-110	96.6	1.6
110-120	142.9	2.4
120-130	181.4	3.0
130-140	201.4	3.3
140-150	196.4	3.2
150-160	164.0	2.7
160-170	108.9	1.8
170-180	38.2	0.6

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