



REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G102999977

Original Issue Date: March 29, 2017

Revision Date: March 31, 2017

REPORT NO. 102999977LAX-002

TEST OF ONE LED LUMINAIRE

MODEL NO. OLV-30-LED35-HO-FWA-D1

LED MODEL NO. NICHIA NFSL757D

DRIVER MODEL NO. OSRAM 79399

RENDERED TO

PRUDENTIAL LIGHTING

1774 EAST 21ST STREET

LOS ANGELES, CA 90058-1008

Revision Note March 31, 2017: This report was revised to update modal number from OLV-30-LED35-SO-FWA-D1 to OLV-30-LED35-HO-FWA-D1.

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-HO-FWA-D1. The sample was received by Intertek on March 24, 2017, in undamaged condition and one sample was tested as received. The sample designation was LAN1703240834-002.

DATES OF TESTS: March 28, 2017

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SUMMARY

Model No.:	OLV-30-LED35-HO-FWA-D1
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	7284
Total Power (W)	118.2
Luminaire Efficacy (LPW)	61.62
Power Factor	0.995

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	03/01/17	04/01/17	03/28/17
AC Source	CW1251P	000944	VBU	VBU	03/28/17
Power Analyzer	WT210	000945	12/05/16	12/05/17	03/28/17
Tape Measure	33-428	001491	01/06/17	01/06/18	03/28/17
Magnetic Level	581-9	001610	09/28/16	09/28/17	03/28/17
Temp. & RH Meter	971	001178	12/22/16	12/22/17	03/28/17

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.

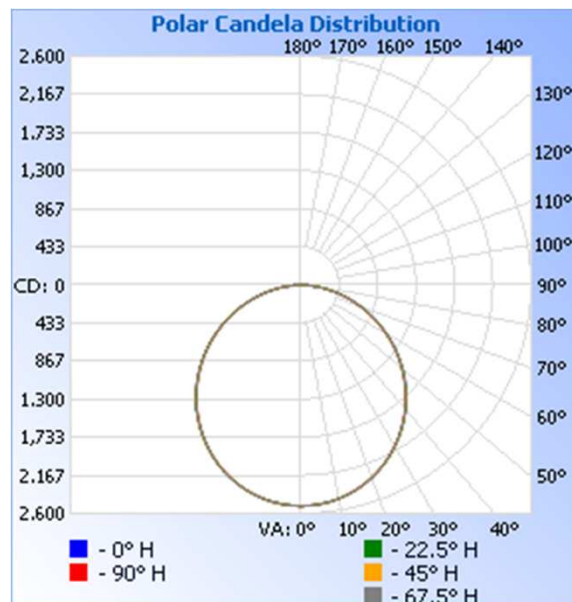
RESULTS OF TEST (cont'd)

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)
LAN1703240834-002	Up	120.0	990.0	118.2	0.995	7284	61.62

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2512	2512	2512	2512	2512
5	2499	2500	2501	2501	2501
10	2466	2466	2466	2467	2467
15	2410	2411	2411	2410	2410
20	2333	2333	2332	2331	2331
25	2235	2236	2234	2233	2232
30	2116	2120	2118	2116	2114
35	1984	1988	1985	1982	1980
40	1840	1838	1835	1832	1830
45	1675	1676	1671	1668	1666
50	1499	1499	1495	1491	1491
55	1316	1313	1308	1306	1307
60	1120	1120	1115	1113	1111
65	924	922	917	915	914
70	723	723	718	717	716
75	527	527	522	522	521
80	339	337	335	333	333
85	161	159	158	157	157
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

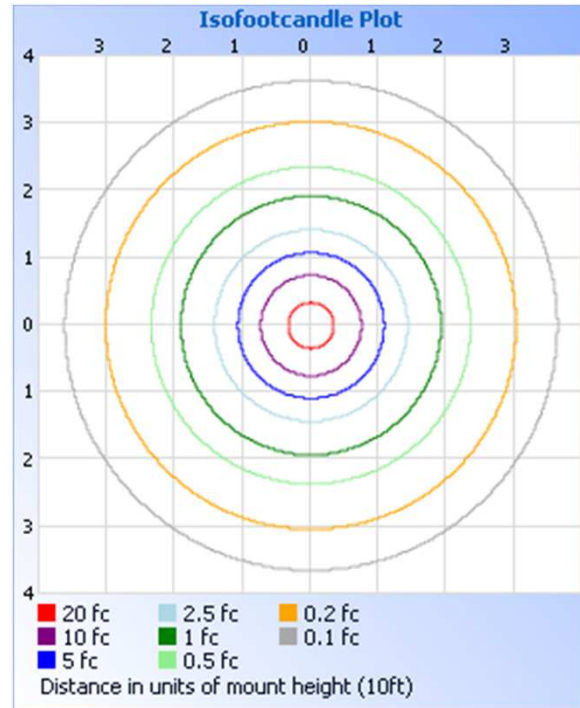
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1947	26.7
0-40	3188	43.8
0-60	5646	77.5
60-90	1638	22.5
0-90	7284	100.0
90-180	0	0.0
0-180	7284	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	237.5	3.3
10-20	679.9	9.3
20-30	1029	14.1
30-40	1241	17.0
40-50	1289	17.7
50-60	1170	16.1
60-70	908.4	12.5
70-80	553.8	7.6
80-90	175.8	2.4

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
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Lighting Division