



REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G103596064

Date: July 21, 2018

REPORT NO. 103596064LAX-003

TEST OF ONE LED INDIRECT AND INDIRECT

MODEL NO. WALWV-LED35-SO-SD (INDIRECT)
LED MODEL NO. NICHIA NFSL757D
DRIVER MODEL NO. OSRAM 79399

RENDERED TO

PRUDENTIAL LTG
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-00849811-9.

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 WALWV-LED35-SO-SD (indirect). The sample was received by Intertek on July 18, 2018, in undamaged condition and one sample was tested as received. The sample designation was LAN1807181219-002.

DATES OF TESTS: July 20, 2018



SUMMARY

Model No.:	WALWV-LED35-SO-SD (indirect)
Description:	LED indirect and indirect

Criteria	Result
Total Lumen Output (Lumens)	4274
Total Power (W)	38.56
Luminaire Efficacy (LPW)	110.8
Power Factor	0.997

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	07/11/18	08/11/18	07/20/18
AC Source	CW1251P	000944	VBU	VBU	07/20/18
Power Analyzer	WT210	000945	11/10/17	11/10/18	07/20/18
Tape Measure	33-428	000684	01/04/18	01/04/19	07/20/18
Magnetic Level	581-9	001610	10/10/17	10/10/18	07/20/18
Temp. & RH Meter	971	001177	01/25/18	01/25/19	07/20/18

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.

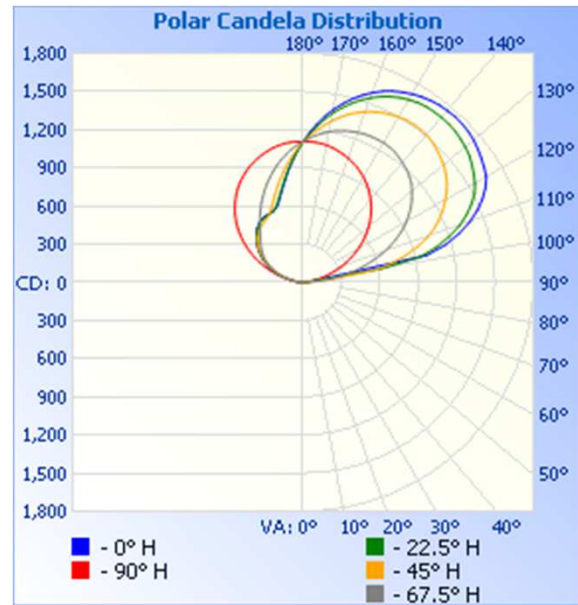
RESULTS OF TEST

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)
LAN1807181219-002	Down	120.0	322.4	38.56	0.997	4274	110.8

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	0	0	0	0	0
10	0	0	0	0	0
15	0	0	0	0	0
20	0	0	0	0	0
25	0	0	0	0	0
30	0	0	0	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0
95	16	18	19	131	23
100	120	616	590	315	79
105	1156	1080	835	488	166
110	1384	1299	1033	654	266
115	1546	1450	1172	800	372
120	1654	1551	1282	925	476
125	1702	1611	1373	1029	575
130	1741	1657	1436	1111	666
135	1761	1683	1478	1177	751
140	1760	1690	1508	1219	826
145	1745	1685	1515	1252	892
150	1710	1659	1502	1267	951
155	1659	1612	1473	1265	1000
160	1588	1545	1428	1256	1038
165	1496	1458	1368	1235	1070
170	1382	1354	1291	1206	1094
175	1253	1231	1199	1162	1106
180	1106	1106	1106	1106	1106



RESULTS OF TEST (cont'd)

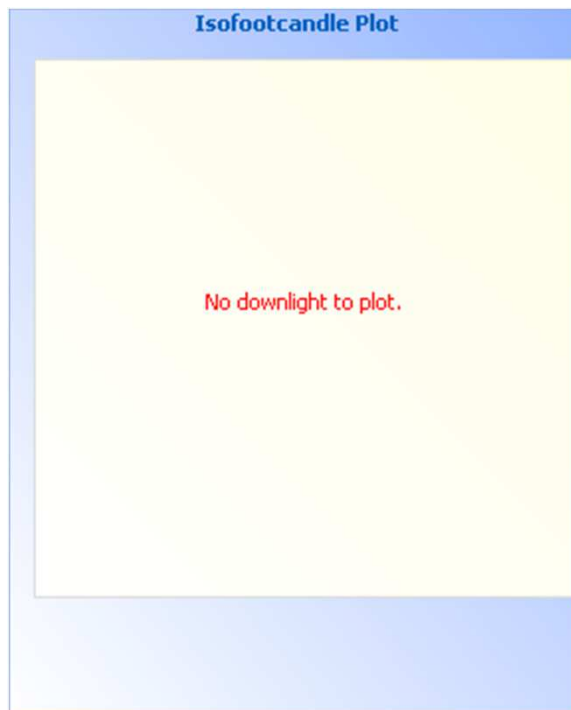
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	0.0	0.0
0-40	0.0	0.0
0-60	0.0	0.0
60-90	0.0	0.0
0-90	0.0	0.0
90-180	4274.0	100.0
0-180	4274	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	0.0	0.0
10-20	0.0	0.0
20-30	0.0	0.0
30-40	0.0	0.0
40-50	0.0	0.0
50-60	0.0	0.0
60-70	0.0	0.0
70-80	0.0	0.0
80-90	0.0	0.0
90-100	69.9	1.6
100-110	469.3	11.0
110-120	685.2	16.0
120-130	764.9	17.9
130-140	743.9	17.4
140-150	644.2	15.1
150-160	487.5	11.4
160-170	304.6	7.1
170-180	104.8	2.5

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