



REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G103596064

Date: July 21, 2018

REPORT NO. 103596064LAX-002

TEST OF ONE LED INDIRECT AND DIRECT/INDIRECT

MODEL NO. WALWV-LED35-SO-P (DIRECT/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-P (direct/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 LAN1807181219-001.

DATES OF TESTS: July 19, 2018



SUMMARY

Model No.:	WALWV-LED35-SO-P (direct/indirect)
Description:	LED indirect and direct/indirect

Criteria	Result
Total Lumen Output (Lumens)	4376
Total Power (W)	38.86
Luminaire Efficacy (LPW)	112.6
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	07/19/18
AC Source	CW1251P	000944	VBU	VBU	07/19/18
Power Analyzer	WT210	000945	11/10/17	11/10/18	07/19/18
Tape Measure	33-428	000684	01/04/18	01/04/19	07/19/18
Magnetic Level	581-9	001610	10/10/17	10/10/18	07/19/18
Temp. & RH Meter	971	001177	01/25/18	01/25/19	07/19/18

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.

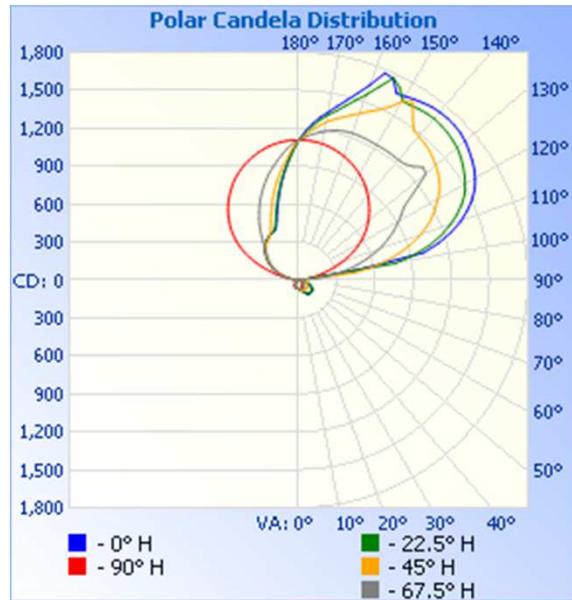
RESULTS OF TEST

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)
LAN1807181219-001	Down	120.0	324.8	38.86	0.997	4376	112.6

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	70	70	70	70	70
5	72	75	72	70	68
10	77	80	74	70	67
15	83	86	78	71	64
20	93	94	81	71	64
25	106	104	84	70	61
30	124	116	88	70	59
35	133	126	91	68	55
40	135	133	91	65	50
45	133	137	91	62	43
50	130	138	88	55	37
55	125	133	84	50	30
60	115	124	79	41	24
65	101	108	76	33	16
70	82	85	68	29	12
75	59	59	55	29	8
80	40	39	37	25	5
85	25	24	22	16	3
90	21	20	15	10	3
95	25	24	23	140	25
100	471	777	583	312	88
105	1139	1062	814	482	180
110	1352	1262	1006	642	299
115	1503	1413	1151	779	425
120	1601	1509	1258	897	536
125	1662	1576	1350	1011	630
130	1707	1626	1407	1304	711
135	1731	1652	1451	1273	785
140	1730	1663	1476	1233	851
145	1710	1651	1560	1234	911
150	1678	1634	1632	1233	962
155	1758	1763	1487	1236	1006
160	1645	1561	1403	1237	1042
165	1476	1428	1334	1224	1072
170	1349	1325	1272	1195	1094
175	1242	1222	1191	1156	1105
180	1107	1107	1107	1107	1107

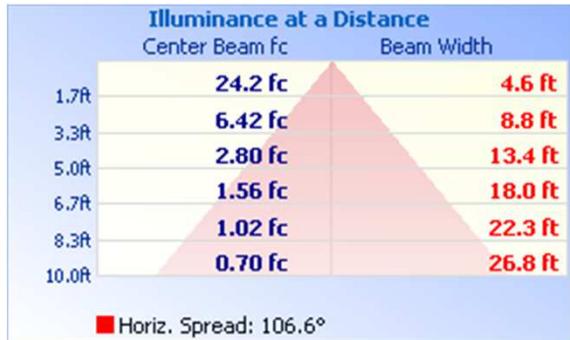


RESULTS OF TEST (cont'd)

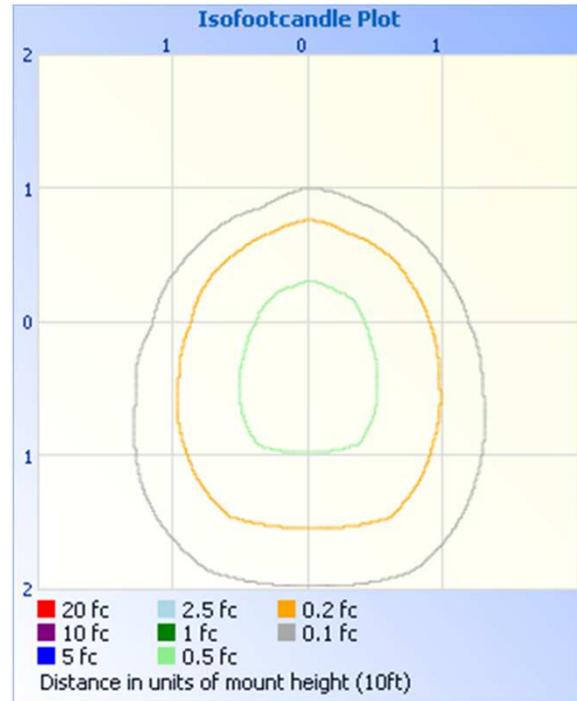
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	58.8	1.3
0-40	102.8	2.4
0-60	197.3	4.5
60-90	75.5	1.7
0-90	272.7	6.2
90-180	4103.0	93.8
0-180	4376	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	6.6	0.2
10-20	19.6	0.4
20-30	32.6	0.7
30-40	44.0	1.0
40-50	48.4	1.1
50-60	46.1	1.1
60-70	37.8	0.9
70-80	25.3	0.6
80-90	12.4	0.3
90-100	81.3	1.9
100-110	455.4	10.4
110-120	649.7	14.8
120-130	725.3	16.6
130-140	708.5	16.2
140-150	609.6	13.9
150-160	473.1	10.8
160-170	296.5	6.8
170-180	103.4	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:



Erik Linares
Associate Engineer
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak
Engineering Supervisor
Lighting Division