



REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G102056248

Date: March 20, 2015

REPORT NO. 102056248LAX-001

TEST OF ONE 2' X 2' TROFFER

MODEL NO. WING22-LED4-HO-ABW
LED MODEL NO. NICHIA NFSL757D
DRIVER MODEL NO. OSRAM 79399

RENDERED TO

PRUDENTIAL LIGHTING
1774 E 21ST STREET
LOS ANGELES, CA 90058

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

STATEMENT OF LIMITATION: This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the federal government.

AUTHORIZATION: The testing performed was authorized by signed quote number Q500588336.

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 WING22-LED4-HO-ABW. The sample was received by Intertek on March 17, 2015, in undamaged condition and one sample was tested as received. The sample designation was LAN1503171017-001.

DATES OF TESTS: March 19, 2015

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SUMMARY

Model No.:	WING22-LED4-HO-ABW
Description:	2' X 2' TROFFER

Criteria	Result
Total Lumen Output (Lumens)	3655.6
Total Power (W)	42.03
Luminaire Efficacy (LPW)	86.98
Power Factor	0.996
Spacing Criterion (0°-180°)	1.50
Spacing Criterion (90°-270°)	1.24
Spacing Criterion (Diagonal)	1.48

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date
LSI High Speed Mirror Goniometer	6440T	000943	02/25/15	03/25/15
Elgar Power Supply	CW1251	000944	VBU	VBU
Yokogawa Power Analyzer	WT210	000945	11/26/14	11/26/15
Temp. & RH Meter	971	001178	12/22/14	12/22/15
Extech Instruments Stop Watch	365510	001390	12/08/14	12/08/15
Tape Measure	33-430	001491	12/08/14	12/08/15

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 Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

RESULTS OF TEST

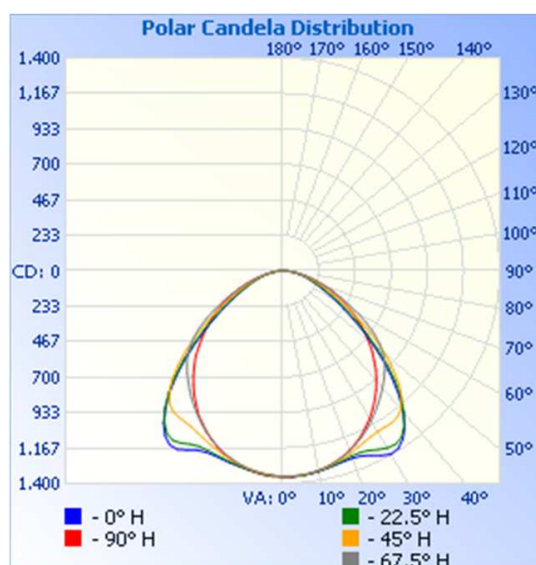
Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
LAN1503171017-001	UP	120.0	352.1	42.03	0.996	3655.6	86.98

Intensity (Candlepower) Summary at 25°C - Candelas

Maximum Candela Value:

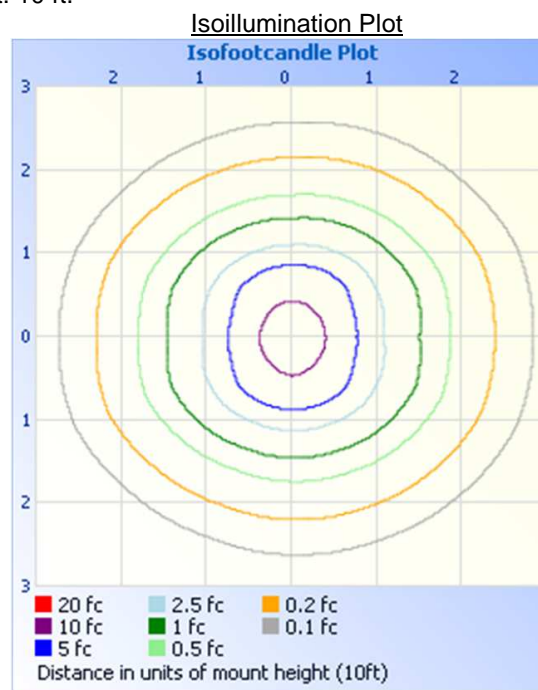
Angle	0	22.5	45	67.5	90
0	1355	1355	1355	1355	1355
5	1352	1354	1349	1350	1354
10	1340	1339	1335	1333	1334
15	1321	1318	1307	1302	1305
20	1313	1298	1278	1260	1257
25	1341	1305	1243	1205	1196
30	1394	1346	1223	1140	1122
35	1351	1337	1223	1070	1036
40	1209	1215	1187	1002	938
45	999	1024	1063	931	833
50	767	796	874	847	723
55	556	586	665	719	612
60	400	421	485	562	498
65	286	302	347	411	388
70	205	213	244	287	283
75	147	151	165	190	189
80	93	96	104	112	110
85	42	46	52	54	51
90	2	3	5	7	7



RESULTS OF TEST (cont'd)

Illumination Plots

Mounting Height: 10 ft.



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1071	29.3%
0-40	1809	49.5%
0-60	3102	84.9%
60-90	552.7	15.1%
0-90	3655.2	5.9%
90-180	0.4	0.0%
0-180	3655.6	100.0%

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	128.1	3.5%
10-20	367.9	10.1%
20-30	574.7	15.7%
30-40	738.2	20.2%
40-50	738.1	20.2%
50-60	555.5	15.2%
60-70	336.3	9.2%
70-80	169.1	4.6%
80-90	47.3	1.3%

PICTURE (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:



Jesse Reyna
Engineer
Lighting Division

Attachment: None

Report Reviewed By:



Kenda Branch
Lighting Performance Team Lead
Lighting Division