



REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G102953252

Date: March 16, 2017

REPORT NO. 102953252LAX-004

TEST OF ONE LED LUMINAIRE

MODEL NO. P43-LED35-LO-04-SAL-D1
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 P43-LED35-LO-04-SAL-D1. The sample was received by Intertek on March 7, 2017, in undamaged condition and one sample was tested as received. The sample designation was LAN1703071332-004.

DATES OF TESTS: March 10, 2017

SUMMARY

Model No.:	P43-LED35-LO-04-SAL-D1
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1809
Total Power (W)	18.34
Luminaire Efficacy (LPW)	98.64
Power Factor	0.994

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	03/10/17
AC Source	CW1251P	000944	VBU	VBU	03/10/17
Power Analyzer	WT210	000945	12/05/16	12/05/17	03/10/17
Tape Measure	33-428	001491	01/06/17	01/06/18	03/10/17
Magnetic Level	581-9	001610	09/28/16	09/28/17	03/10/17
Temp. & RH Meter	971	001178	12/22/16	12/22/17	03/10/17

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.

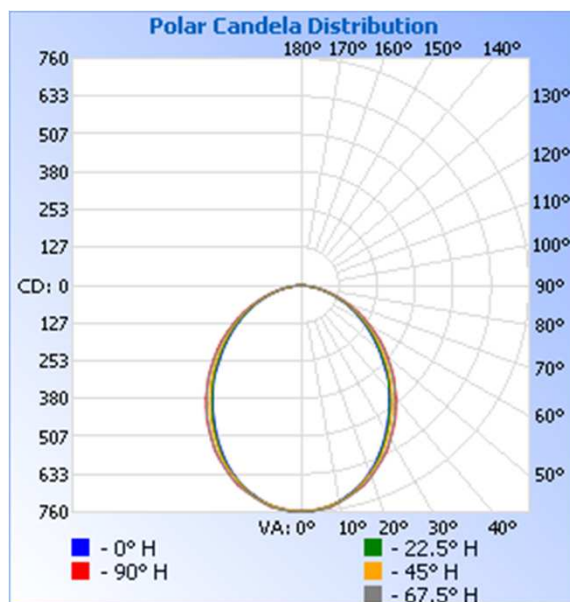
RESULTS OF TEST (cont'd)

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)
LAN1703071332-004	Up	120.0	153.9	18.34	0.994	1809	98.64

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	758	758	758	758	758
5	751	753	751	753	752
10	734	735	735	738	738
15	706	708	708	714	713
20	667	672	672	683	683
25	619	624	631	640	643
30	567	570	579	595	595
35	511	515	528	544	546
40	456	460	470	488	492
45	398	405	414	432	436
50	341	346	357	375	377
55	285	291	303	317	322
60	234	239	249	260	263
65	184	188	196	205	211
70	137	141	146	152	155
75	93	95	97	103	105
80	54	54	55	57	57
85	22	22	21	20	20
90	0	0	0	0	0

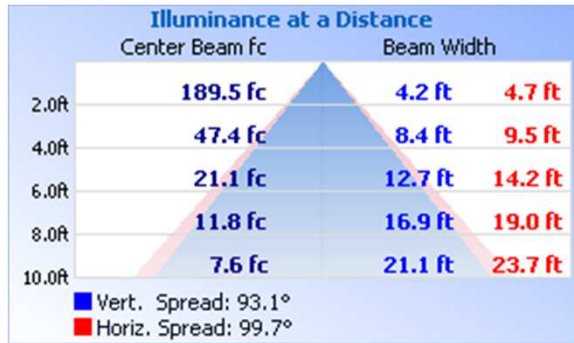


RESULTS OF TEST (cont'd)

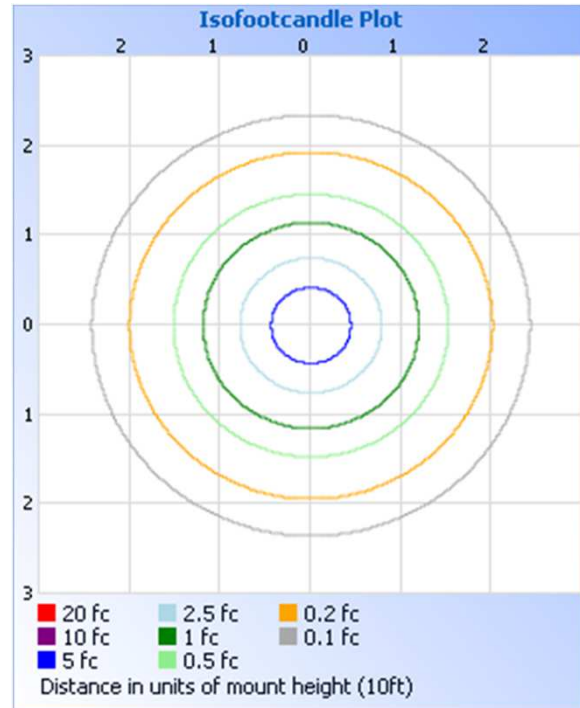
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	561.4	31.0
0-40	891.7	49.3
0-60	1484	82.1
60-90	324.7	17.9
0-90	1809	100.0
90-180	0	0.0
0-180	1809	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	71.3	3.9
10-20	199.8	11.0
20-30	290.3	16.1
30-40	330.3	18.3
40-50	321.2	17.8
50-60	271.5	15.0
60-70	194.6	10.8
70-80	104.9	5.8
80-90	25.2	1.4

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
Engineering Supervisor
Lighting Division