



REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G103596064

Date: July 21, 2018

REPORT NO. 103596064LAX-001

TEST OF ONE LED DIRECT

MODEL NO. P4030-LED35-SO-FWA-NRB-D1
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 P4030-LED35-SO-FWA-NRB-D1. The sample was received by Intertek on July 12, 2018, in undamaged condition and one sample was tested as received. The sample designation was LAN1807120926-001.

DATES OF TESTS: July 19, 2018



SUMMARY

Model No.:	P4030-LED35-SO-FWA-NRB-D1
Description:	LED direct

Criteria	Result
Total Lumen Output (Lumens)	6861
Total Power (W)	109.7
Luminaire Efficacy (LPW)	62.54
Power Factor	0.998

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.

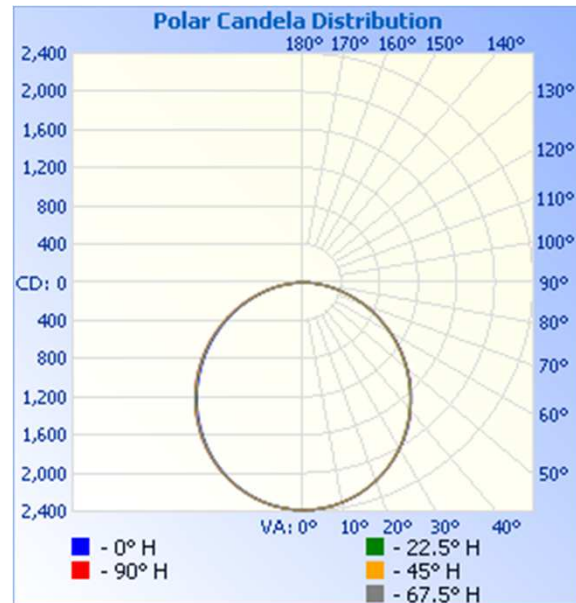
RESULTS OF TEST

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)
LAN1807120926-001	Up	120.0	916.1	109.7	0.998	6861	62.54

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2385	2385	2385	2385	2385
5	2375	2375	2373	2373	2374
10	2343	2340	2340	2342	2341
15	2290	2287	2286	2288	2288
20	2217	2213	2212	2214	2214
25	2124	2118	2120	2122	2122
30	2011	2004	2007	2010	2012
35	1890	1875	1878	1881	1883
40	1742	1732	1736	1740	1741
45	1589	1574	1578	1583	1585
50	1419	1405	1411	1414	1417
55	1244	1227	1234	1240	1241
60	1057	1042	1049	1054	1056
65	870	854	861	866	868
70	683	665	671	678	681
75	493	477	484	490	493
80	315	299	302	308	311
85	144	131	134	138	139
90	0	0	0	0	0

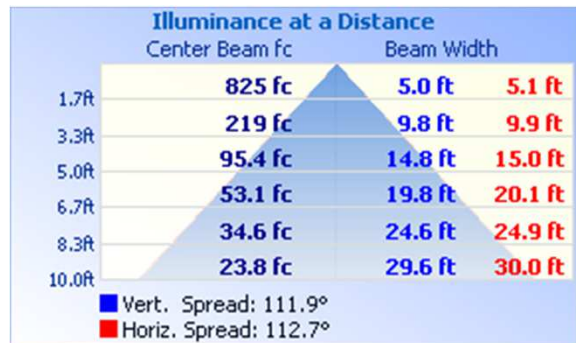


RESULTS OF TEST (cont'd)

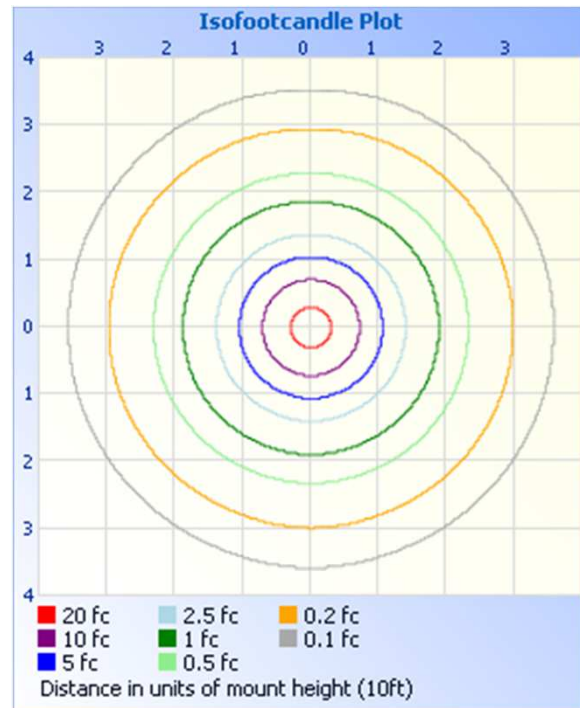
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1847	26.9
0-40	3022	44.0
0-60	5342	77.9
60-90	1519	22.1
0-90	6861	100.0
90-180	0.0	0.0
0-180	6861	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	225.5	3.3
10-20	645.1	9.4
20-30	976.3	14.2
30-40	1175	17.1
40-50	1217	17.7
50-60	1102	16.1
60-70	852.5	12.4
70-80	513.5	7.5
80-90	153.0	2.2

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:

A handwritten signature in black ink, appearing to read "Erik Linares".

Erik Linares
Associate Engineer
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read "Vladimir Kozak".

Vladimir Kozak
Engineering Supervisor
Lighting Division