



# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G102999977

Date: March 29, 2017

REPORT NO. 102999977LAX-001

TEST OF ONE LED LUMINAIRE

MODEL NO. QDF-33-LED35-SO-FWA-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 QDF-33-LED35-SO-FWA-D1. The sample was received by Intertek on March 24, 2017, in undamaged condition and one sample was tested as received. The sample designation was LAN1703240834-001.

DATES OF TESTS: March 28, 2017

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SUMMARY

Model No.:	QDF-33-LED35-SO-FWA-D1
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	6063
Total Power (W)	101.8
Luminaire Efficacy (LPW)	59.56
Power Factor	0.996

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

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.



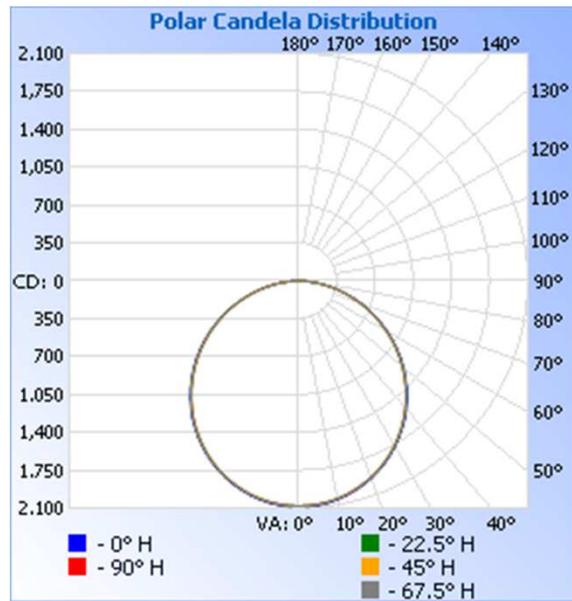
RESULTS OF TEST (cont'd)

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)
LAN1703240834-001	Up	120.0	851.6	101.8	0.996	6063	59.56

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2080	2080	2080	2080	2080
5	2078	2069	2069	2068	2075
10	2050	2042	2042	2040	2047
15	2005	1996	1995	1994	2001
20	1942	1933	1931	1931	1936
25	1862	1854	1851	1850	1855
30	1765	1760	1755	1754	1759
35	1658	1650	1646	1644	1648
40	1535	1528	1522	1521	1526
45	1399	1393	1387	1386	1391
50	1256	1249	1243	1241	1245
55	1103	1096	1089	1087	1092
60	941	936	928	927	932
65	777	769	764	761	767
70	609	603	597	596	603
75	445	438	435	433	440
80	286	281	278	277	283
85	138	134	133	132	135
90	0	0	0	0	0

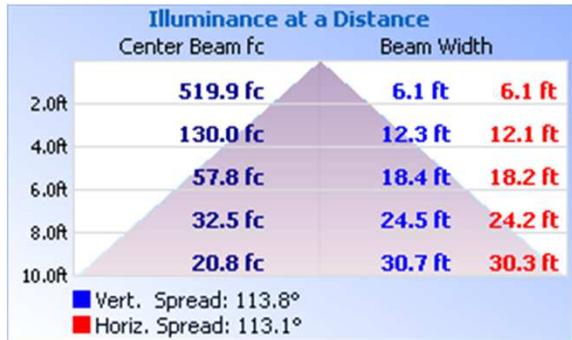


RESULTS OF TEST (cont'd)

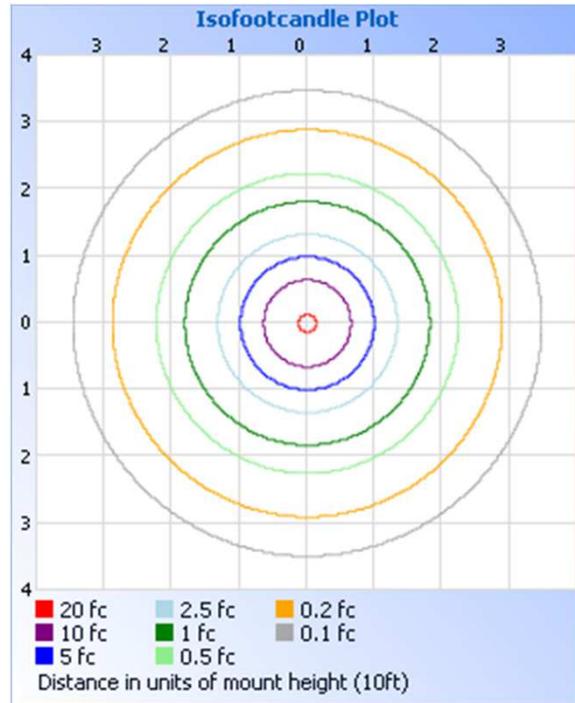
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1614	26.6
0-40	2645	43.6
0-60	4693	77.4
60-90	1369	22.6
0-90	6063	100.0
90-180	0	0.0
0-180	6063	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	196.7	3.2
10-20	563.4	9.3
20-30	854.0	14.1
30-40	1031	17.0
40-50	1072	17.7
50-60	976.0	16.1
60-70	758.7	12.5
70-80	462.5	7.6
80-90	148.0	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:



Ameet Alawi  
Technician  
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak  
Engineering Supervisor  
Lighting Division