



REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G103408692

Date: February 15, 2018

REPORT NO. 103408692LAX-006

TEST OF ONE LED LUMINAIRE

MODEL NO. RDOT-LED35-HO
LED MODEL NO. NICHIA NFSL757D
DRIVER MODEL NO. MAGTECH MD22-U24-0830-XP

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 prototype sample of model number RDOT-LED35-HO. The sample was received by Intertek on February 9, 2018, in undamaged condition and one sample was tested as received. The sample designation was LAN1802091332-006.

DATES OF TESTS: February 14, 2018



SUMMARY

Model No.:	RDOT-LED35-HO
Description:	LED LUMINAIRE

Criteria	Result
Total Lumen Output (Lumens)	966.8
Total Power (W)	18.17
Luminaire Efficacy (LPW)	53.21
Power Factor	0.981

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	02/01/18	03/01/18	02/14/18
AC Source	CW1251P	000944	VBU	VBU	02/14/18
Power Analyzer	WT210	000945	11/10/17	11/10/18	02/14/18
Tape Measure	33-428	000684	01/04/18	01/04/19	02/14/18
Magnetic Level	581-9	001610	10/10/17	10/10/18	02/14/18
Temp. & RH Meter	971	001180	12/21/17	12/21/18	02/14/18

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.

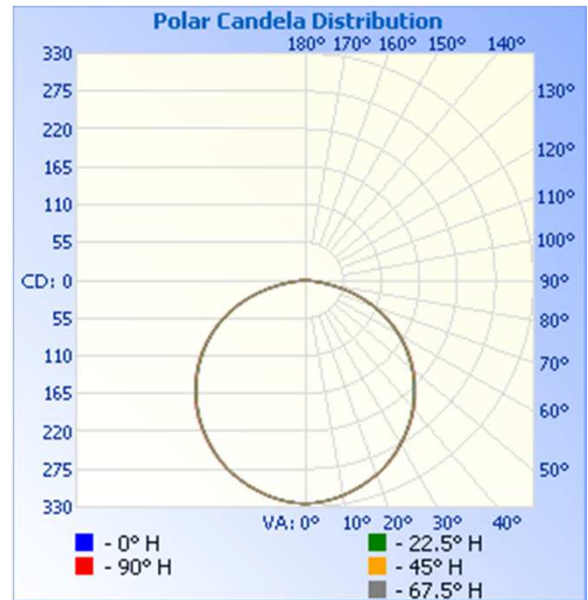
RESULTS OF TEST

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)
LAN1802091332-006	Up	120.0	154.4	18.17	0.981	966.8	53.21

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	325	325	325	325	325
5	322	322	322	323	323
10	317	317	317	318	318
15	310	310	310	310	310
20	301	300	301	301	301
25	289	289	289	290	290
30	274	275	275	276	276
35	259	259	260	260	261
40	242	242	242	243	244
45	223	223	223	224	225
50	202	202	203	203	204
55	179	179	180	181	182
60	155	155	156	157	157
65	129	129	130	131	131
70	101	101	102	102	103
75	70	70	71	71	72
80	38	38	38	38	38
85	13	13	13	12	12
90	0	0	0	0	0

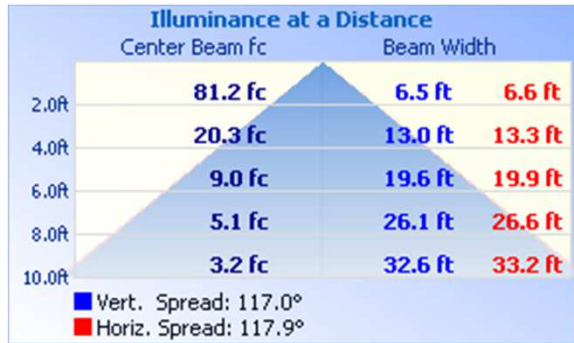


RESULTS OF TEST (cont'd)

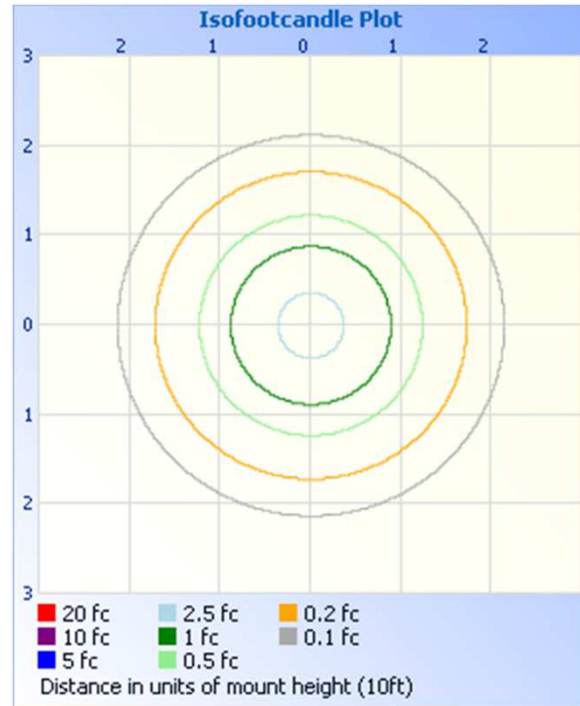
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



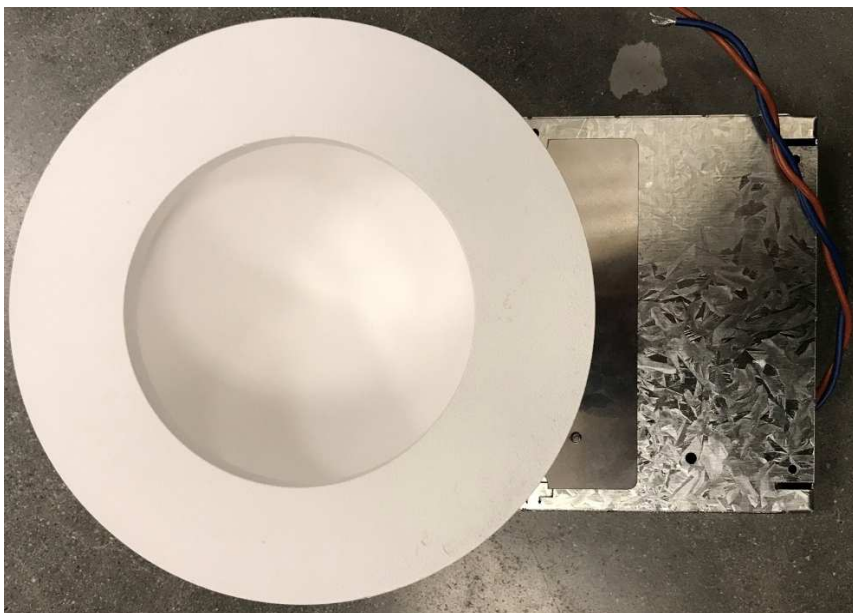
Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	251.4	26.0
0-40	414.0	42.8
0-60	747.5	77.3
60-90	219.3	22.7
0-90	966.8	100.0
90-180	0.0	0.0
0-180	966.8	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	30.6	3.2
10-20	87.5	9.0
20-30	133.3	13.8
30-40	162.6	16.8
40-50	172.4	17.8
50-60	161.0	16.7
60-70	128.2	13.3
70-80	74.4	7.7
80-90	16.7	1.7

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