



REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G103408692

Date: February 15, 2017

REPORT NO. 103408692LAX-007

TEST OF ONE LED LUMINAIRE

MODEL NO. SDOT-LED35-HO
LED MODEL NO. NICHIA NFSL757D
DRIVER MODEL NO. MAGTECH MD22-U24-0775-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 SDOT-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 LAN1802091332-007.

DATES OF TESTS: February 15, 2018



SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	1077
Total Power (W)	17.03
Luminaire Efficacy (LPW)	63.24
Power Factor	0.985

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	02/15/18
AC Source	CW1251P	000944	VBU	VBU	02/15/18
Power Analyzer	WT210	000945	11/10/17	11/10/18	02/15/18
Tape Measure	33-428	000684	01/04/18	01/04/19	02/15/18
Magnetic Level	581-9	001610	10/10/17	10/10/18	02/15/18
Temp. & RH Meter	971	001180	12/21/17	12/21/18	02/15/18

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.

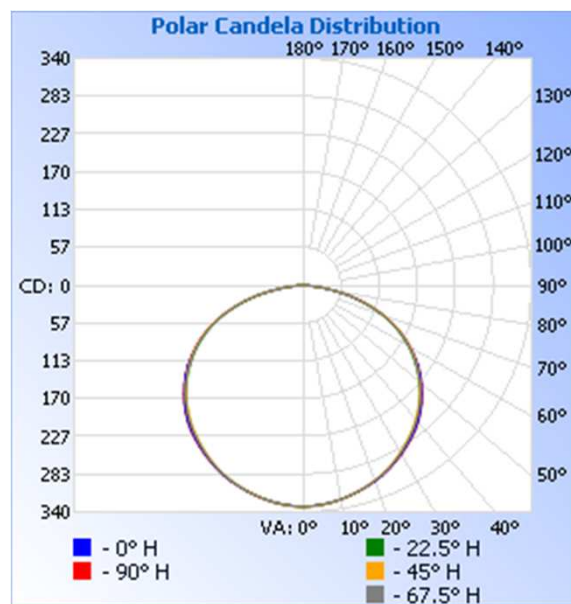
RESULTS OF TEST

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)
LAN1802091332-007	Up	120.0	144.4	17.03	0.985	1077	63.24

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	332	332	332	332	332
5	330	330	331	330	330
10	326	326	326	326	326
15	320	319	319	319	320
20	313	312	311	312	313
25	303	302	301	302	304
30	292	290	289	290	293
35	280	277	276	277	281
40	266	262	261	263	267
45	249	246	245	246	250
50	230	226	227	227	230
55	208	204	207	205	209
60	184	180	184	182	184
65	157	153	157	155	156
70	124	122	126	123	125
75	88	87	90	88	89
80	50	49	51	50	50
85	16	16	17	17	17
90	0	0	0	0	0

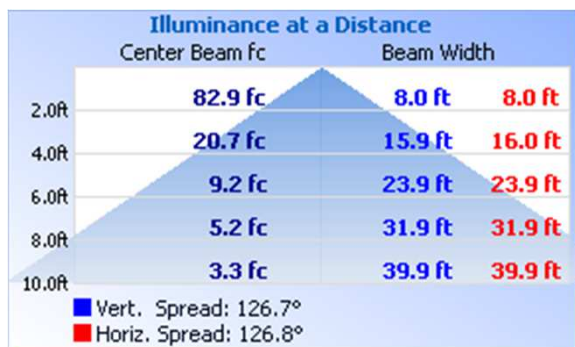


RESULTS OF TEST (cont'd)

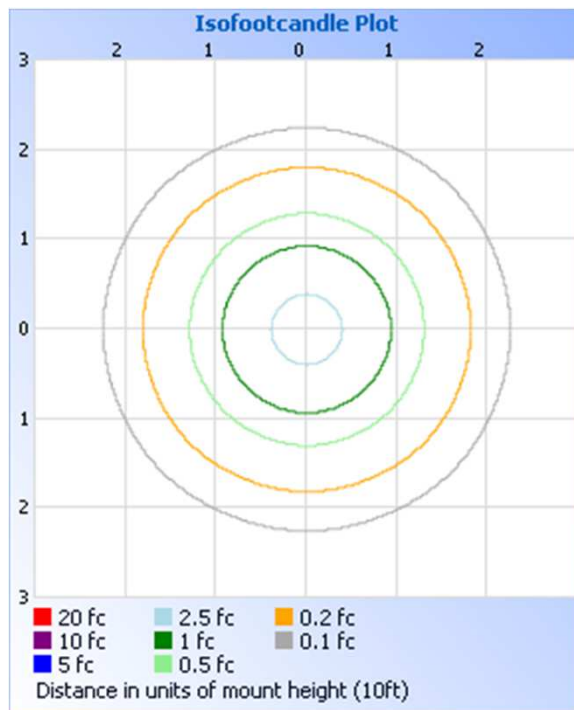
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



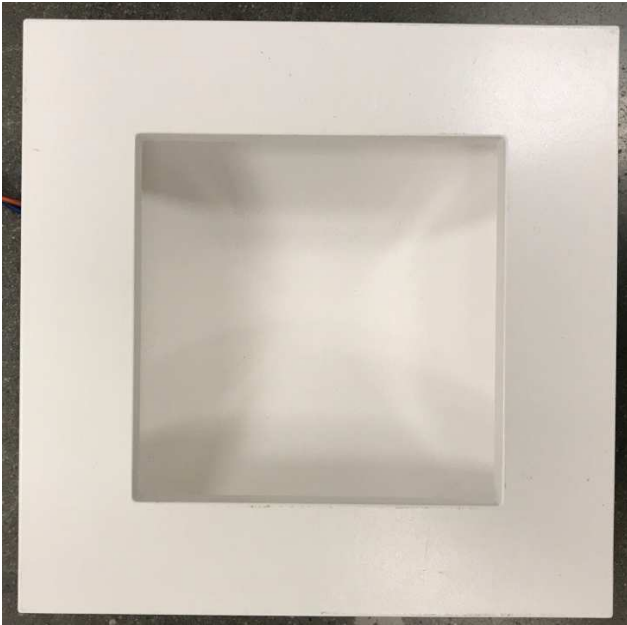
Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	261.0	24.2
0-40	434.8	40.4
0-60	809.1	75.2
60-90	267.5	24.8
0-90	1077	100.0
90-180	0.0	0.0
0-180	1077	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	31.4	2.9
10-20	90.3	8.4
20-30	139.4	12.9
30-40	173.8	16.1
40-50	190.1	17.7
50-60	184.2	17.1
60-70	153.0	14.2
70-80	92.6	8.6
80-90	21.9	2.0

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