

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104394264

Date: July 28, 2020

REPORT NO. 104394264LAX-003

TEST OF ONE LED LUMINAIRE

MODEL NO. STRPER-LED35-LO

LED MODEL NO. NICHIA 4591A

DRIVER MODEL NO. OSRAM OTI 50W G2

RENDERED TO

PRUDENTIAL LIGHTING

1774 EAST 21ST

LOS ANGELES, CA 90058

STATEMENT OF LIMITATION: This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-01069292.

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 STRPER-LED35-LO. The sample was received by Intertek on July 16, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2007161137-003.

DATES OF TESTS: July 28, 2020

SUMMARY

Model No.:	STRPER-LED35-LO
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2186
Total Power (W)	18.48
Luminaire Efficacy (LPW)	118.3
Power Factor	0.979

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	07/28/20
AC Source	CW1251P	000944	VBU	VBU	07/28/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	07/28/20
Tape Measure	33-428	001491	VBU	VBU	07/28/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	07/28/20
Temp. & RH Meter	Testo 622	001912	04/22/20	04/22/21	07/28/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	07/28/20

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.

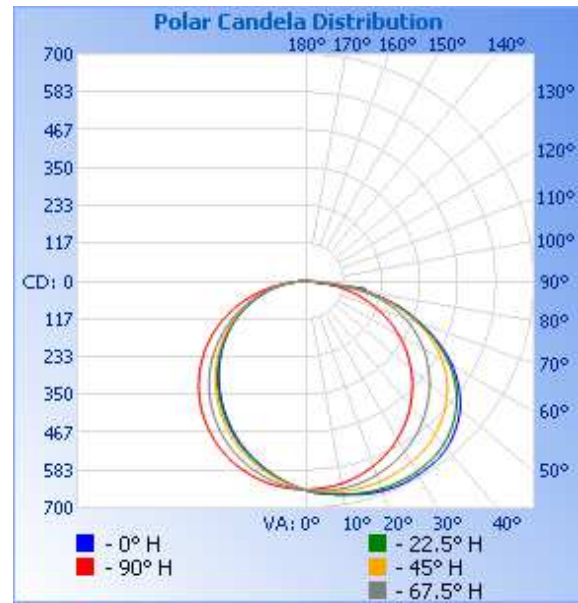
RESULTS OF TEST

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)
LAN2007161137-003	Up	119.9	157.4	18.48	0.979	2186	118.3

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	644	644	644	644	644
5	658	658	652	650	641
10	668	668	658	650	635
15	681	677	661	646	623
20	689	682	660	637	608
25	692	683	654	624	588
30	690	680	646	607	563
35	686	672	635	585	534
40	673	658	618	560	501
45	650	635	594	530	464
50	619	604	565	497	422
55	575	562	529	460	378
60	520	510	484	418	330
65	451	444	428	372	279
70	372	365	359	319	224
75	294	286	277	256	166
80	193	183	186	179	105
85	23	22	69	80	43
90	0	0	0	0	0

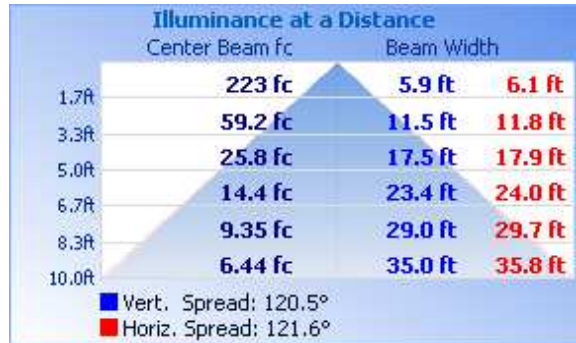


RESULTS OF TEST (cont'd)

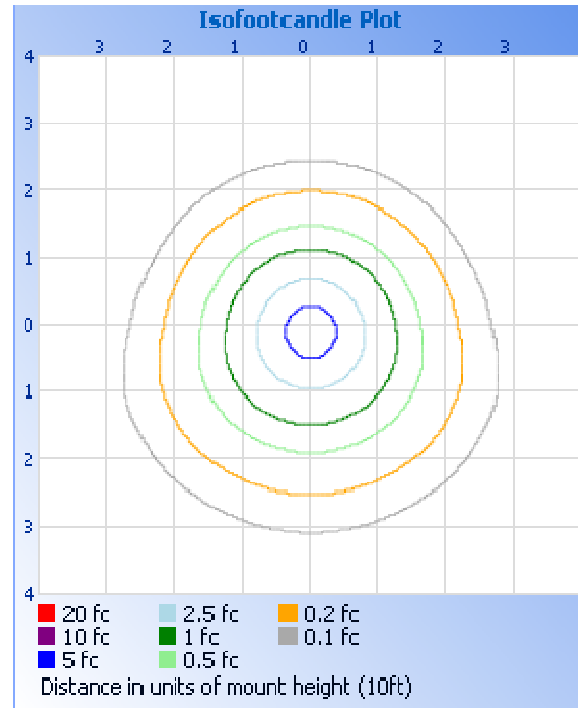
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	512.9	23.5
0-40	858.1	39.3
0-60	1605	73.4
60-90	580.4	26.6
0-90	2186	100.0
90-180	0.0	0.0
0-180	2186	100.0

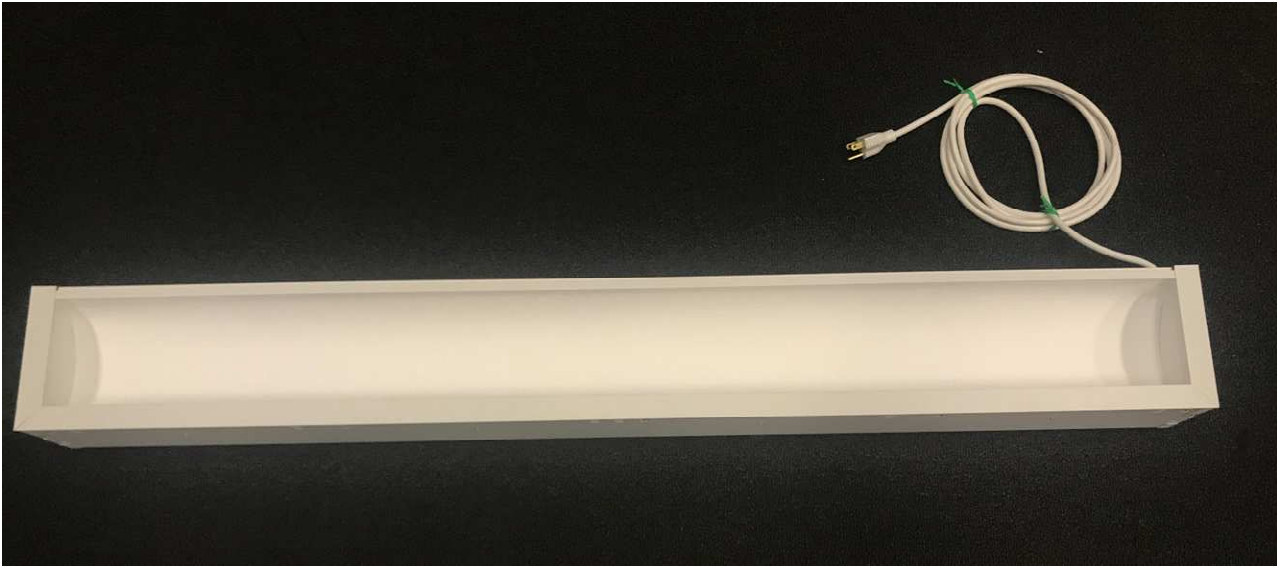
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	61.0	2.8
10-20	176.9	8.1
20-30	275.0	12.6
30-40	345.2	15.8
40-50	378.6	17.3
50-60	368.5	16.9
60-70	310.9	14.2
70-80	207.3	9.5
80-90	62.3	2.9

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.48

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