

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 17, 2021

REPORT NO. 104599646LAX-001C

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZERD-36-LED35-SO
LED MODEL NO. LUMILEDS 2835
DRIVER MODEL NO. OSRAM OTI 85W 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-01120100-3.

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 GazeRD-36-LED35-SO. The sample was received by Intertek on February 16, 2021, in undamaged condition and one sample was tested as received. The sample designation was LAN2102160936-001.

DATES OF TESTS: February 17, 2021

SUMMARY

Model No.:	GazeRD-36-LED35-SO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	10630
Total Power (W)	99.94
Luminaire Efficacy (LPW)	106.4
Power Factor	0.987

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBV	VBV	02/17/21
AC Source	CW1251P	000944	VBV	VBV	02/17/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/17/21
Tape Measure	33-428	001491	VBV	VBV	02/17/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/17/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/17/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/17/21

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.

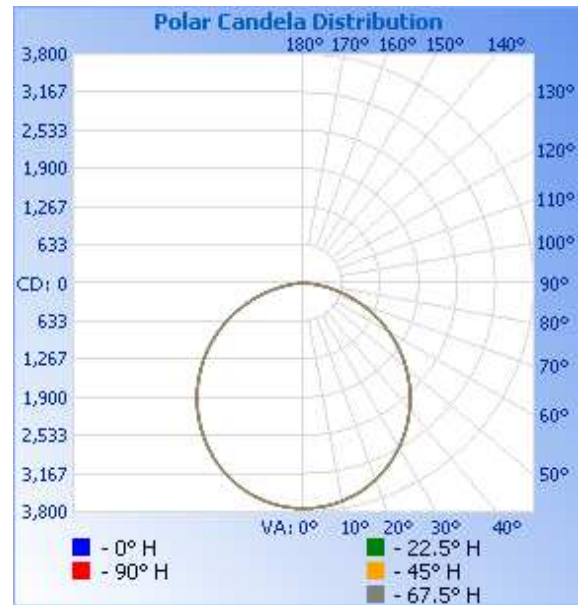
RESULTS OF TEST

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)
LAN2102160936-001	Up	120.0	843.9	99.94	0.987	10630	106.4

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	3741	3741	3741	3741	3741
5	3725	3725	3725	3725	3725
10	3674	3674	3673	3674	3674
15	3590	3590	3590	3591	3590
20	3476	3476	3476	3477	3477
25	3327	3329	3329	3330	3329
30	3151	3152	3153	3153	3152
35	2949	2952	2952	2953	2951
40	2725	2727	2728	2729	2728
45	2480	2480	2482	2483	2482
50	2214	2213	2215	2217	2216
55	1931	1931	1932	1934	1934
60	1634	1633	1636	1637	1638
65	1326	1326	1328	1328	1329
70	1010	1009	1014	1013	1013
75	697	697	700	699	699
80	402	401	406	404	404
85	160	161	163	162	162
90	0	0	0	0	0

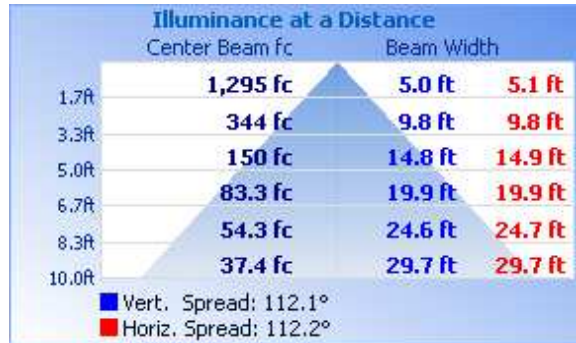


RESULTS OF TEST (cont'd)

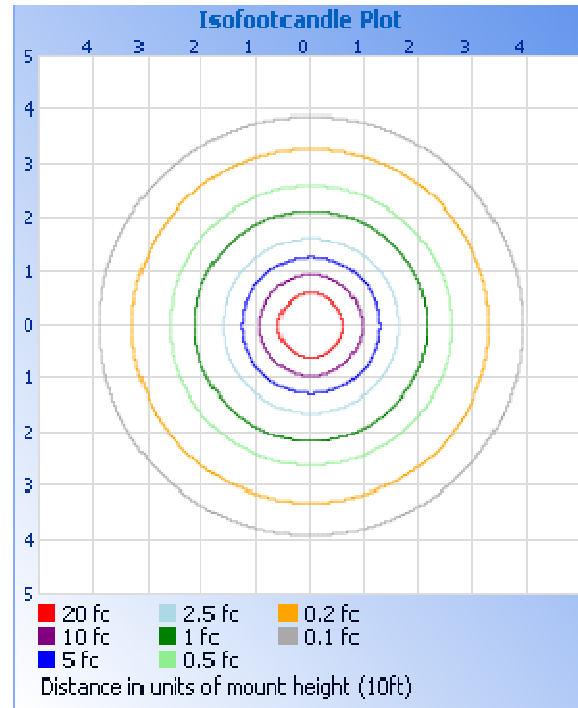
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2900	27.3
0-40	4746	44.6
0-60	8385	78.9
60-90	2245	21.1
0-90	10630	100.0
90-180	0.0	0.0
0-180	10630	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	353.8	3.3
10-20	1013	9.5
20-30	1534	14.4
30-40	1846	17.4
40-50	1913	18.0
50-60	1726	16.2
60-70	1312	12.3
70-80	740.0	7.0
80-90	192.8	1.8

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38

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 'Kellen Murakami'.

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

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

Vladimir Kozak
Engineering Supervisor
Lighting Division