

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 17, 2021

REPORT NO. 104599646LAX-001B

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZERD-36-LED35-MO
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-MO. 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-MO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	7466
Total Power (W)	64.92
Luminaire Efficacy (LPW)	115.0
Power Factor	0.989

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.

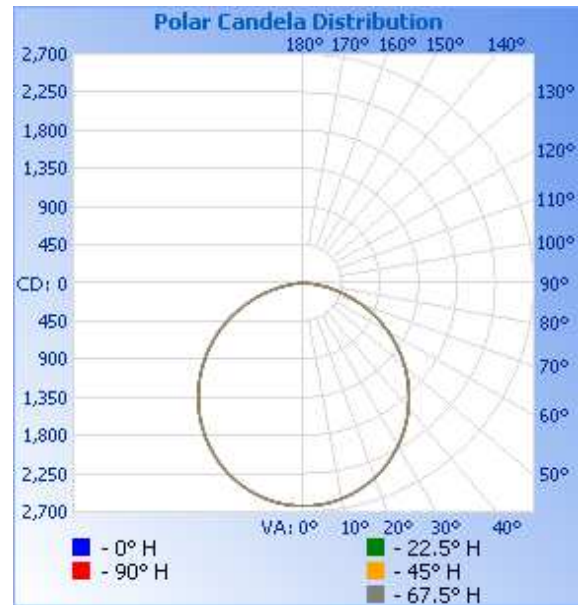
RESULTS OF TEST

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	547.1	64.92	0.989	7466	115.0

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2630	2630	2630	2630	2630
5	2618	2618	2618	2618	2618
10	2581	2582	2582	2582	2582
15	2522	2524	2523	2524	2524
20	2442	2443	2443	2443	2443
25	2338	2339	2340	2340	2339
30	2214	2215	2216	2216	2215
35	2072	2074	2074	2075	2074
40	1914	1916	1916	1917	1916
45	1741	1743	1742	1744	1743
50	1554	1555	1555	1557	1557
55	1355	1356	1356	1358	1358
60	1146	1148	1148	1150	1151
65	930	931	931	933	933
70	708	710	710	710	711
75	488	490	490	491	491
80	281	283	284	284	284
85	112	113	114	114	114
90	0	0	0	0	0

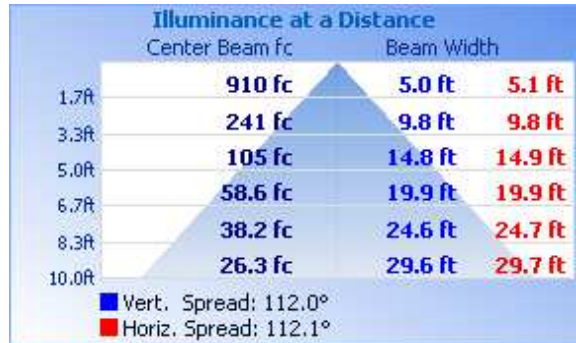


RESULTS OF TEST (cont'd)

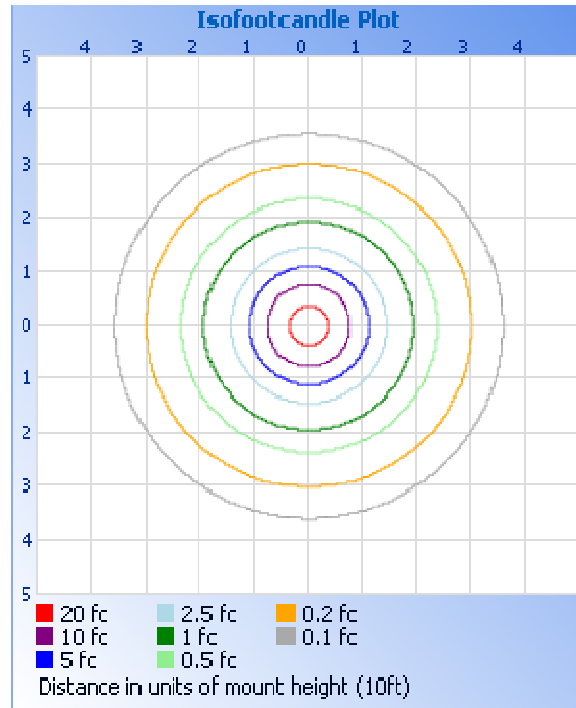
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2038	27.3
0-40	3335	44.7
0-60	5891	78.9
60-90	1575	21.1
0-90	7466	100.0
90-180	0.0	0.0
0-180	7466	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	248.7	3.3
10-20	711.9	9.5
20-30	1078	14.4
30-40	1297	17.4
40-50	1344	18.0
50-60	1212	16.2
60-70	920.9	12.3
70-80	519.2	7.0
80-90	135.3	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:

Handwritten signature of Kellen Murakami.

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Handwritten signature of Vladimir Kozak.

Vladimir Kozak
Engineering Supervisor
Lighting Division