

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 17, 2021

REPORT NO. 104599646LAX-001D

TEST OF ONE DIRECT LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	13436
Total Power (W)	132.7
Luminaire Efficacy (LPW)	101.3
Power Factor	0.993

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/17/21
AC Source	CW1251P	000944	VBU	VBU	02/17/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/17/21
Tape Measure	33-428	001491	VBU	VBU	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.

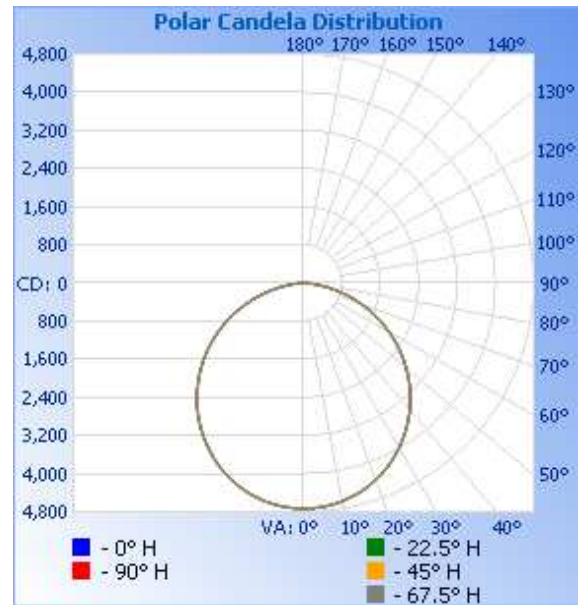
RESULTS OF TEST

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	120.1	1112	132.7	0.993	13436	101.3

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	4729	4729	4729	4729	4729
5	4709	4708	4708	4709	4708
10	4644	4644	4643	4644	4643
15	4539	4538	4538	4539	4539
20	4394	4394	4394	4394	4394
25	4205	4208	4207	4209	4208
30	3983	3986	3985	3986	3986
35	3728	3730	3730	3732	3732
40	3446	3448	3448	3449	3450
45	3136	3135	3136	3138	3139
50	2800	2798	2800	2801	2803
55	2442	2440	2442	2443	2447
60	2069	2067	2067	2070	2072
65	1676	1675	1678	1677	1682
70	1277	1277	1279	1279	1282
75	880	881	884	883	888
80	509	508	510	509	512
85	203	204	205	204	207
90	0	0	0	0	0

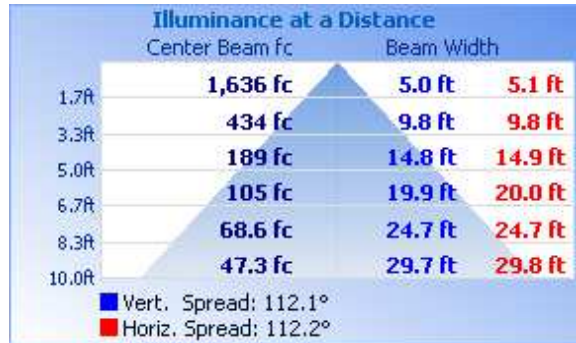


RESULTS OF TEST (cont'd)

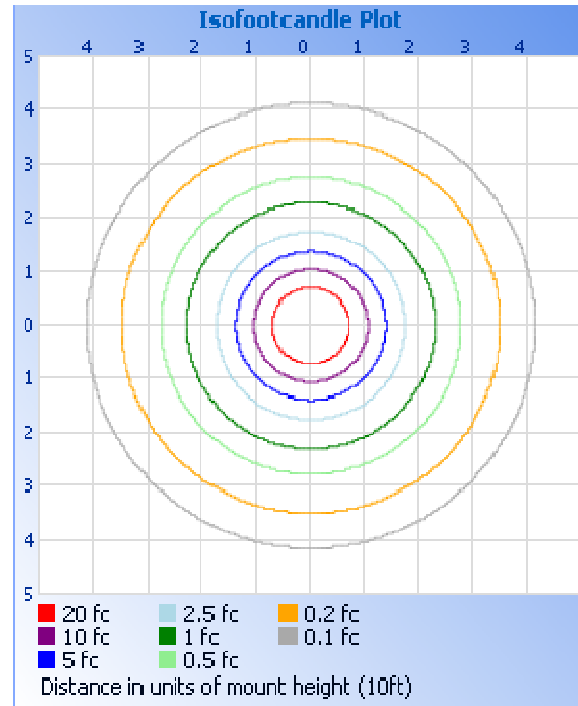
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	3666	27.3
0-40	5999	44.7
0-60	10599	78.9
60-90	2837	21.1
0-90	13436	100.0
90-180	0.0	0.0
0-180	13436	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	447.3	3.3
10-20	1280	9.5
20-30	1938	14.4
30-40	2333	17.4
40-50	2418	18.0
50-60	2182	16.2
60-70	1658	12.3
70-80	935.0	7.0
80-90	243.5	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