

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 17, 2021

REPORT NO. 104599646LAX-001A

TEST OF ONE DIRECT LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	4161
Total Power (W)	34.62
Luminaire Efficacy (LPW)	120.2
Power Factor	0.980

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.

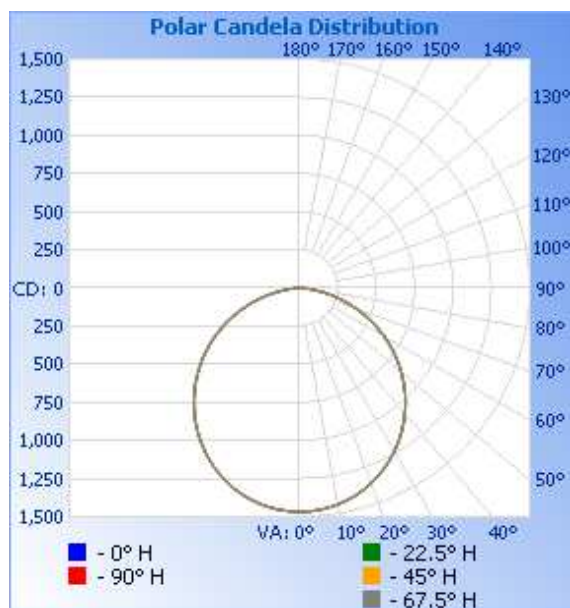
RESULTS OF TEST

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	120.0	294.4	34.62	0.980	4161	120.2

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1466	1466	1466	1466	1466
5	1459	1459	1459	1459	1460
10	1439	1440	1440	1439	1439
15	1406	1407	1407	1407	1407
20	1361	1362	1362	1362	1362
25	1304	1304	1304	1304	1304
30	1235	1235	1235	1235	1235
35	1156	1156	1156	1156	1156
40	1068	1068	1068	1068	1068
45	971	971	972	972	972
50	866	866	867	868	867
55	755	756	756	756	757
60	639	639	640	640	640
65	518	518	519	519	520
70	395	395	396	396	396
75	273	272	274	273	275
80	158	157	158	158	158
85	63	63	64	63	64
90	0	0	0	0	0

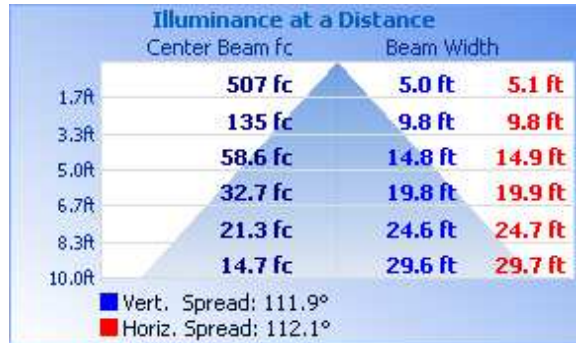


RESULTS OF TEST (cont'd)

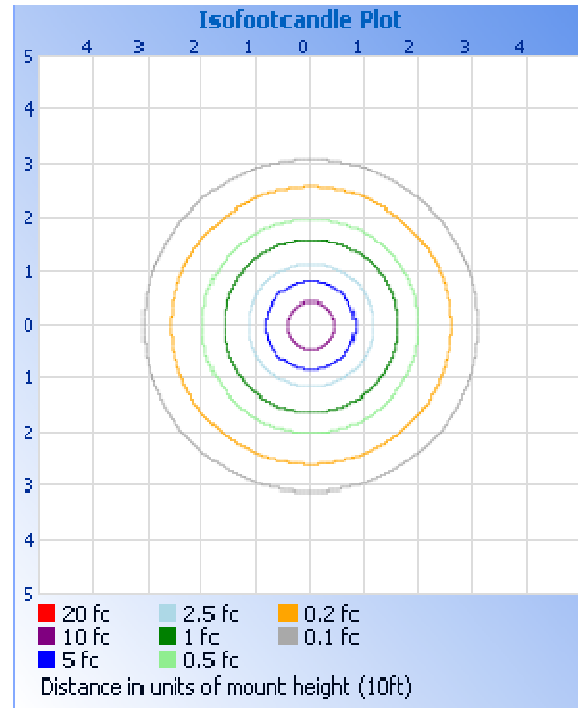
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1136	27.3
0-40	1859	44.7
0-60	3283	78.9
60-90	878.0	21.1
0-90	4161	100.0
90-180	0.0	0.0
0-180	4161	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	138.6	3.3
10-20	396.9	9.5
20-30	600.7	14.4
30-40	722.9	17.4
40-50	748.9	18.0
50-60	675.2	16.2
60-70	513.0	12.3
70-80	289.5	7.0
80-90	75.5	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