

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 11, 2021

REPORT NO. 104592322LAX-003B

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZERD-24-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-24-LED35-MO. The sample was received by Intertek on February 8, 2021, in undamaged condition and one sample was tested as received. The sample designation was LAN2102080745-003.

DATES OF TESTS: February 11, 2021

SUMMARY

Model No.:	GazeRD-24-LED35-MO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3126
Total Power (W)	27.18
Luminaire Efficacy (LPW)	115.0
Power Factor	0.990

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBV	VBV	02/11/21
AC Source	CW1251P	000944	VBV	VBV	02/11/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/11/21
Tape Measure	33-428	001491	VBV	VBV	02/11/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/11/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/11/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/11/21

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.

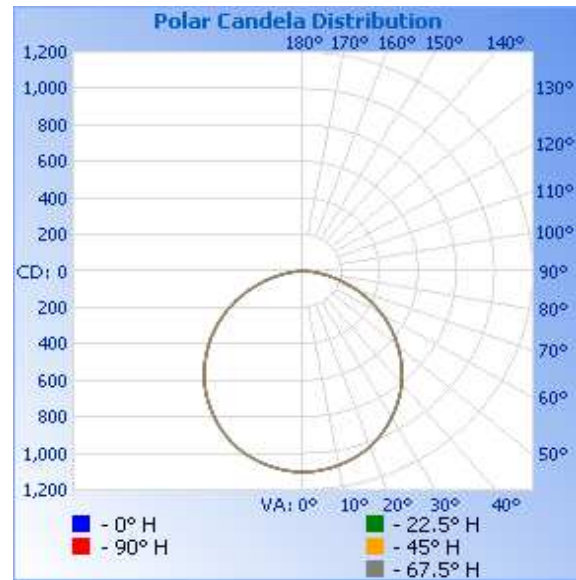
RESULTS OF TEST

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)
LAN2102080745-003	Up	120.0	228.7	27.18	0.990	3126	115.0

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1101	1101	1101	1101	1101
5	1095	1095	1095	1095	1095
10	1079	1080	1080	1080	1080
15	1055	1056	1056	1056	1056
20	1023	1023	1024	1023	1023
25	979	979	979	979	979
30	926	926	926	926	926
35	867	867	867	867	867
40	801	802	802	801	802
45	728	728	728	728	728
50	649	650	650	649	649
55	566	567	567	566	566
60	479	480	480	479	478
65	389	389	390	389	389
70	297	297	297	298	297
75	206	206	206	206	206
80	120	120	121	122	121
85	51	51	52	52	52
90	0	0	0	0	0

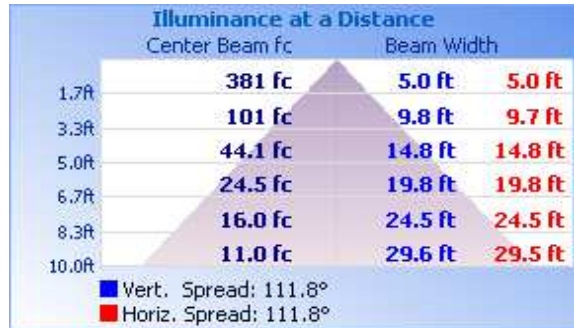


RESULTS OF TEST (cont'd)

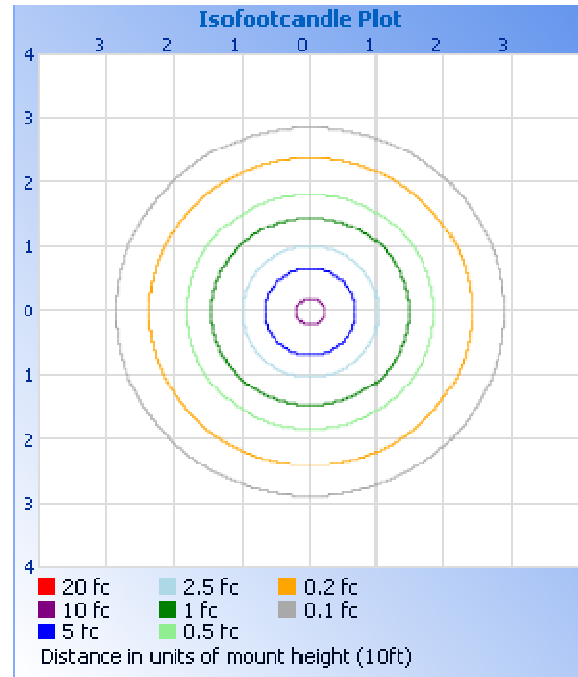
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	852.9	27.3
0-40	1395	44.6
0-60	2462	78.8
60-90	663.2	21.2
0-90	3126	100.0
90-180	0.0	0.0
0-180	3126	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	104.0	3.3
10-20	297.9	9.5
20-30	450.9	14.4
30-40	542.3	17.3
40-50	561.4	18.0
50-60	505.9	16.2
60-70	384.7	12.3
70-80	218.4	7.0
80-90	60.1	1.9

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