

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 12, 2021

REPORT NO. 104592322LAX-003D

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZERD-24-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-24-LED35-HO. 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-HO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	5708
Total Power (W)	53.03
Luminaire Efficacy (LPW)	107.6
Power Factor	0.989

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/11/21
AC Source	CW1251P	000944	VBU	VBU	02/11/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/11/21
Tape Measure	33-428	001491	VBU	VBU	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.

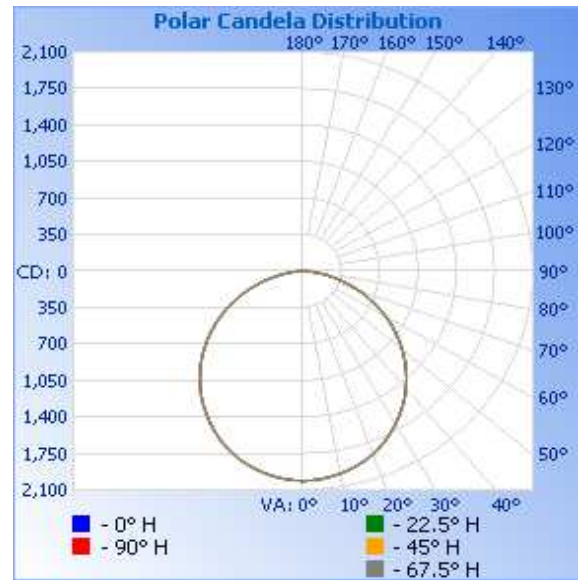
RESULTS OF TEST

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	447.0	53.03	0.989	5708	107.6

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2011	2011	2011	2011	2011
5	1999	2000	2000	2000	2000
10	1970	1971	1971	1972	1971
15	1927	1928	1928	1928	1928
20	1867	1868	1868	1868	1868
25	1787	1788	1788	1788	1787
30	1690	1691	1692	1691	1690
35	1583	1584	1584	1583	1582
40	1464	1465	1464	1464	1463
45	1331	1332	1331	1330	1330
50	1186	1188	1187	1186	1186
55	1035	1036	1034	1035	1034
60	874	876	876	876	875
65	710	711	710	710	709
70	540	543	542	543	542
75	374	376	376	377	376
80	218	221	221	222	221
85	92	94	94	96	95
90	0	0	0	0	0

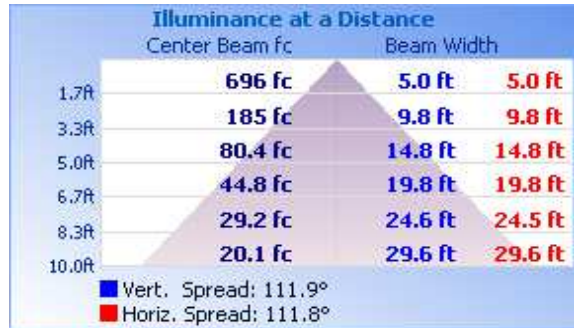


RESULTS OF TEST (cont'd)

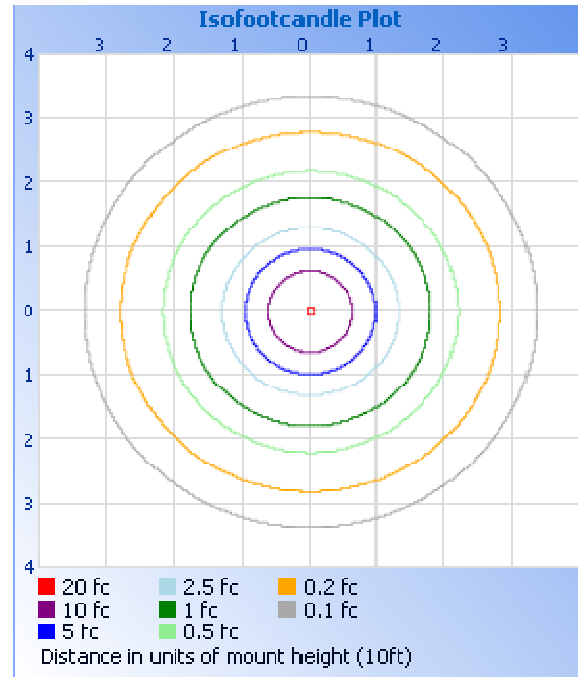
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1557	27.3
0-40	2548	44.6
0-60	4498	78.8
60-90	1210	21.2
0-90	5708	100.0
90-180	0.0	0.0
0-180	5708	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	189.9	3.3
10-20	544.0	9.5
20-30	823.4	14.4
30-40	990.2	17.3
40-50	1026	18.0
50-60	924.4	16.2
60-70	702.1	12.3
70-80	398.5	7.0
80-90	109.7	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