

# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 12, 2021

REPORT NO. 104592322LAX-004D

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-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 GazeSQ-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 LAN2102080745-004.

DATES OF TESTS: February 12, 2021

SUMMARY

Model No.:	GazeSQ-24-LED35-HO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	7677
Total Power (W)	69.23
Luminaire Efficacy (LPW)	110.9
Power Factor	0.990

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/12/21
AC Source	CW1251P	000944	VBU	VBU	02/12/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/12/21
Tape Measure	33-428	001491	VBU	VBU	02/12/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/12/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/12/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/12/21

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.

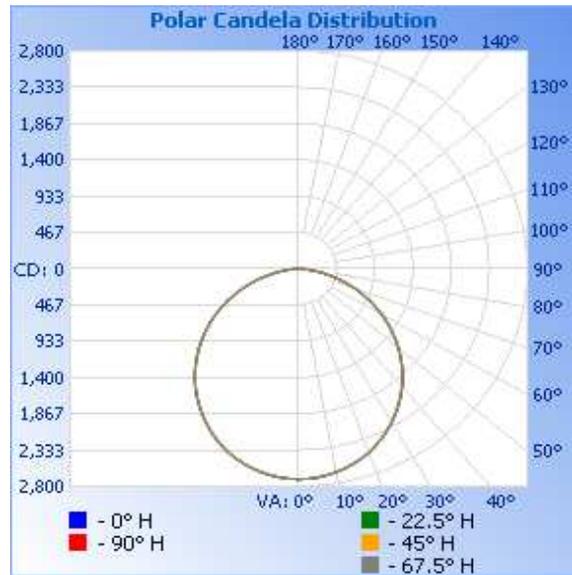
RESULTS OF TEST

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)
LAN2102080745-004	Up	120.0	582.7	69.23	0.990	7677	110.9

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2705	2705	2705	2705	2705
5	2692	2692	2690	2692	2690
10	2653	2653	2652	2653	2652
15	2595	2595	2593	2595	2593
20	2514	2514	2512	2514	2512
25	2406	2406	2404	2405	2403
30	2277	2276	2275	2275	2274
35	2132	2132	2130	2130	2128
40	1971	1970	1969	1968	1967
45	1792	1791	1791	1789	1788
50	1600	1597	1596	1595	1594
55	1394	1392	1392	1391	1390
60	1180	1178	1178	1176	1176
65	956	956	955	954	954
70	729	728	728	728	728
75	504	504	505	505	506
80	295	295	296	298	298
85	124	125	127	128	129
90	0	0	0	0	0

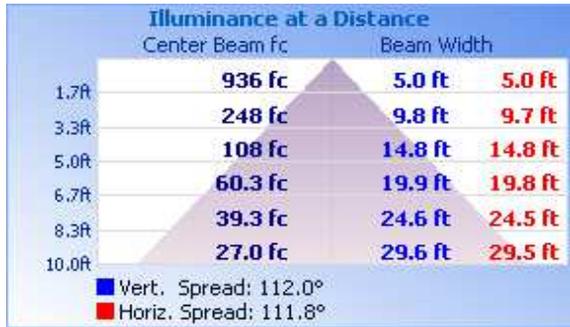


RESULTS OF TEST (cont'd)

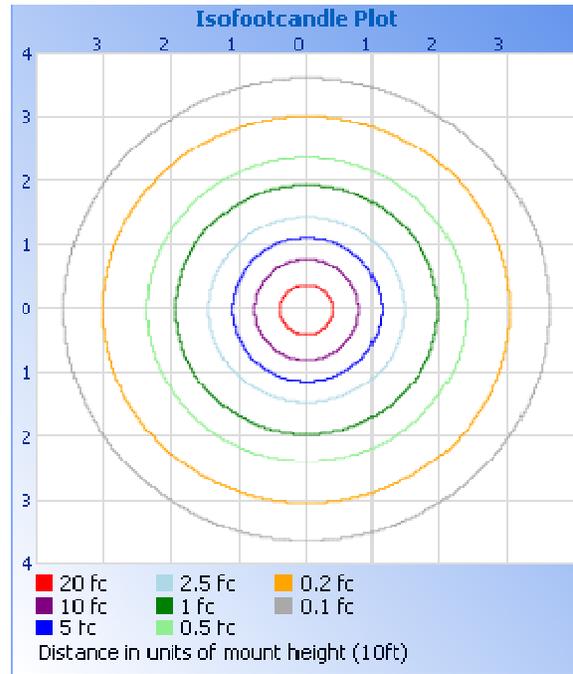
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2095	27.3
0-40	3428	44.7
0-60	6051	78.8
60-90	1626	21.2
0-90	7677	100.0
90-180	0.0	0.0
0-180	7677	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	255.6	3.3
10-20	732.0	9.5
20-30	1108	14.4
30-40	1332	17.4
40-50	1380	18.0
50-60	1243	16.2
60-70	944.0	12.3
70-80	535.0	7.0
80-90	147.0	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". The signature is fluid and cursive.

Kellen Murakami  
Technician  
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read "Vladimir Kozak". The signature is bold and cursive.

Vladimir Kozak  
Engineering Supervisor  
Lighting Division