

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 12, 2021

REPORT NO. 104592322LAX-004C

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-24-LED35-SO
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-SO. 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-SO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	5890
Total Power (W)	52.17
Luminaire Efficacy (LPW)	112.9
Power Factor	0.989

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBV	VBV	02/12/21
AC Source	CW1251P	000944	VBV	VBV	02/12/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/12/21
Tape Measure	33-428	001491	VBV	VBV	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.

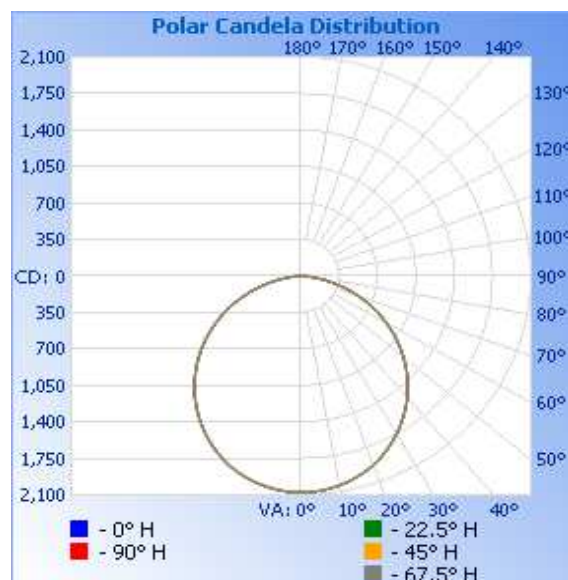
RESULTS OF TEST

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	439.7	52.17	0.989	5890	112.9

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	2077	2077	2077	2077	2077
5	2066	2066	2065	2066	2065
10	2037	2037	2036	2037	2035
15	1992	1992	1990	1991	1990
20	1929	1930	1928	1929	1928
25	1846	1847	1845	1846	1845
30	1747	1747	1746	1747	1745
35	1635	1636	1635	1635	1633
40	1512	1512	1511	1511	1509
45	1373	1374	1374	1373	1372
50	1227	1225	1225	1224	1224
55	1068	1068	1067	1067	1067
60	904	904	903	903	903
65	732	732	732	732	732
70	558	558	559	558	558
75	385	387	387	388	388
80	224	226	228	228	228
85	95	96	97	98	98
90	0	0	0	0	0

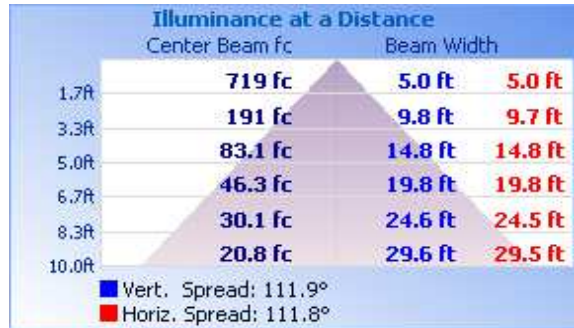


RESULTS OF TEST (cont'd)

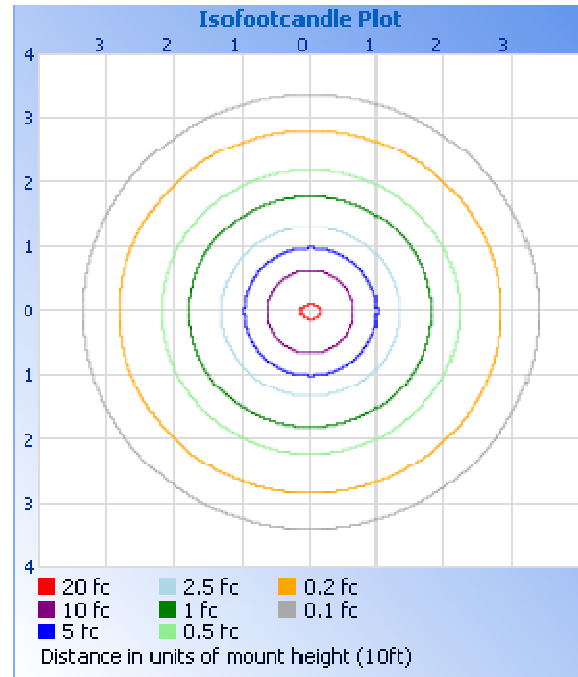
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1608	27.3
0-40	2631	44.7
0-60	4643	78.8
60-90	1246	21.2
0-90	5890	100.0
90-180	0.0	0.0
0-180	5890	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	196.2	3.3
10-20	561.8	9.5
20-30	850.2	14.4
30-40	1022	17.4
40-50	1059	18.0
50-60	953.6	16.2
60-70	723.6	12.3
70-80	410.1	7.0
80-90	112.6	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:

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
Engineering Supervisor
Lighting Division