

# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 12, 2021

REPORT NO. 104592322LAX-004A

TEST OF ONE DIRECT LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	2212
Total Power (W)	18.93
Luminaire Efficacy (LPW)	116.9
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.

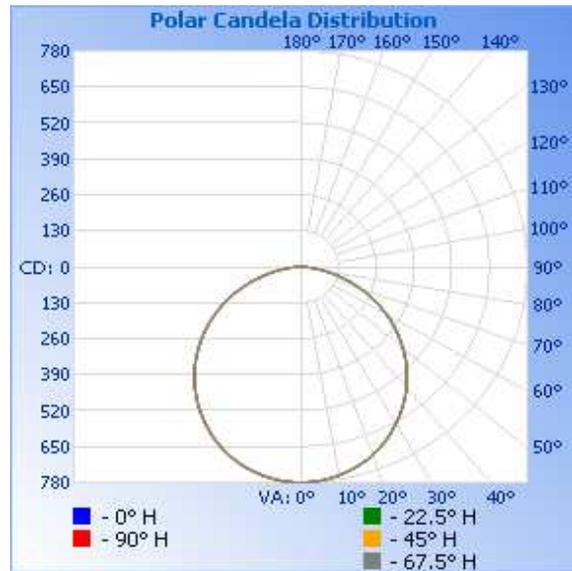
RESULTS OF TEST

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	159.4	18.93	0.990	2212	116.9

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	780	780	780	780	780
5	776	776	775	776	775
10	765	765	764	765	764
15	748	748	747	748	747
20	724	724	723	724	723
25	693	693	692	693	692
30	655	656	655	655	654
35	614	614	614	613	613
40	567	568	567	567	566
45	516	516	516	515	515
50	461	460	460	459	460
55	402	401	401	401	401
60	340	339	339	339	339
65	276	275	275	275	275
70	210	210	210	210	210
75	145	146	146	146	146
80	85	85	86	86	86
85	36	36	37	37	37
90	0	0	0	0	0

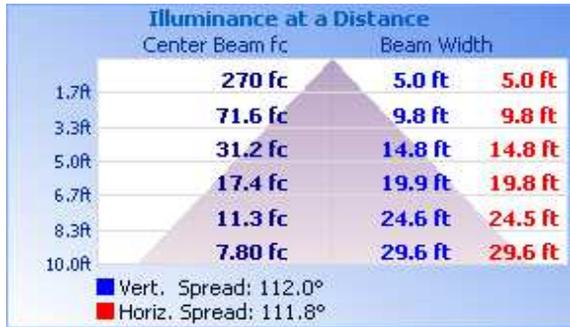


RESULTS OF TEST (cont'd)

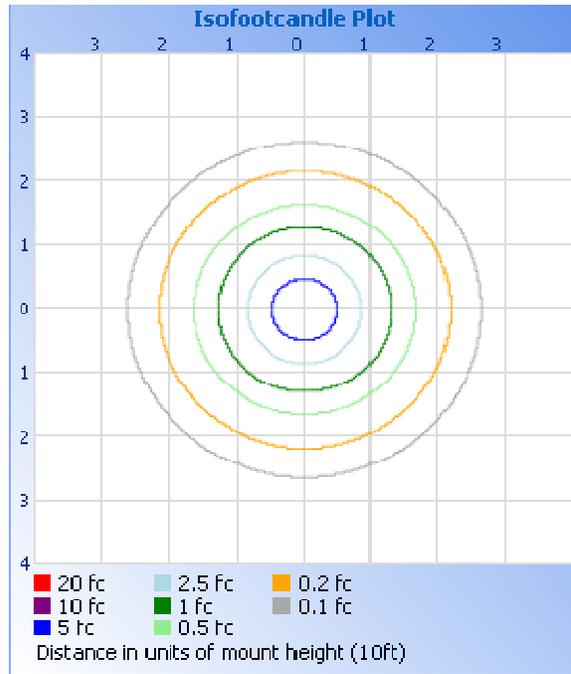
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	603.5	27.3
0-40	987.2	44.6
0-60	1743	78.8
60-90	468.9	21.2
0-90	2212	100.0
90-180	0.0	0.0
0-180	2212	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	73.7	3.3
10-20	210.9	9.5
20-30	319.0	14.4
30-40	383.7	17.3
40-50	397.4	18.0
50-60	358.1	16.2
60-70	272.1	12.3
70-80	154.4	7.0
80-90	42.4	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