

## REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 18, 2021

REPORT NO. 104599646LAX-002D

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-36-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-36-LED35-HO. The sample was received by Intertek on February 16, 2021, in undamaged condition and one sample was tested as received. The sample designation was LAN2102160936-002.

DATES OF TESTS: February 18, 2021

SUMMARY

Model No.:	GazeSQ-36-LED35-HO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	16725
Total Power (W)	164.9
Luminaire Efficacy (LPW)	101.4
Power Factor	0.994

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/18/21
AC Source	CW1251P	000944	VBU	VBU	02/18/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/18/21
Tape Measure	33-428	001491	VBU	VBU	02/18/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/18/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/18/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/18/21

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.

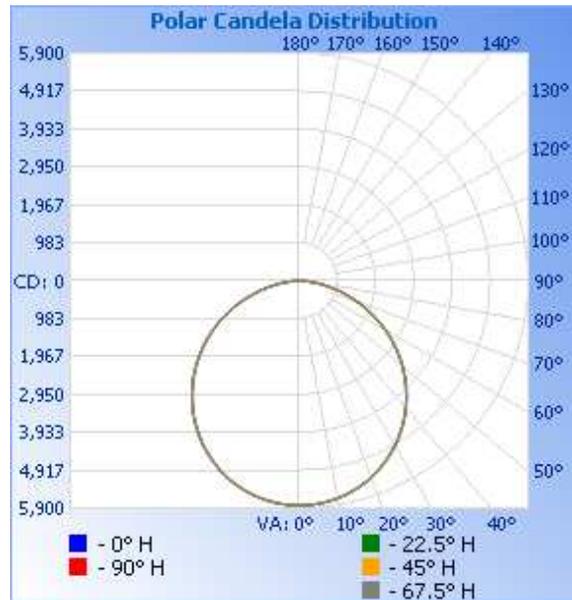
RESULTS OF TEST

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)
LAN2102160936-002	Up	120.0	1382	164.9	0.994	16725	101.4

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	5828	5828	5828	5828	5828
5	5801	5804	5804	5804	5800
10	5724	5727	5727	5727	5723
15	5598	5601	5600	5599	5596
20	5424	5427	5423	5423	5420
25	5202	5205	5200	5199	5196
30	4934	4936	4929	4929	4926
35	4628	4626	4618	4617	4617
40	4282	4281	4272	4270	4270
45	3900	3899	3890	3887	3888
50	3486	3485	3475	3472	3472
55	3044	3043	3034	3030	3032
60	2580	2577	2569	2566	2567
65	2096	2095	2089	2085	2090
70	1609	1603	1598	1599	1601
75	1122	1121	1117	1119	1124
80	674	670	670	673	676
85	299	298	300	300	305
90	0	0	0	0	0

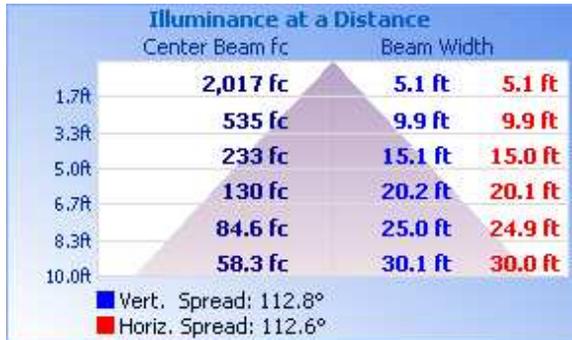


RESULTS OF TEST (cont'd)

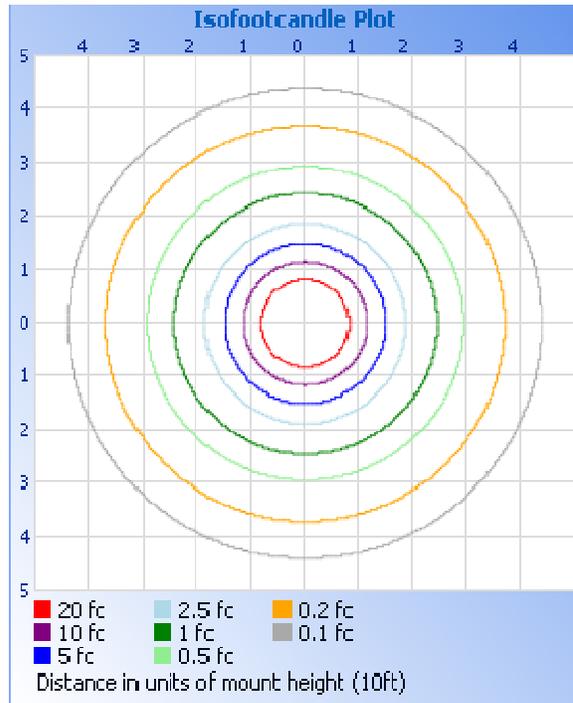
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	4527	27.1
0-40	7417	44.3
0-60	13129	78.5
60-90	3596	21.5
0-90	16725	100.0
90-180	0.0	0.0
0-180	16725	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	551.3	3.3
10-20	1580	9.4
20-30	2396	14.3
30-40	2890	17.3
40-50	3001	17.9
50-60	2712	16.2
60-70	2067	12.4
70-80	1187	7.1
80-90	341.7	2.0

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