

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 17, 2021

REPORT NO. 104599646LAX-002A

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-36-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-36-LED35-LO. 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 17, 2021

## SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	5006
Total Power (W)	42.88
Luminaire Efficacy (LPW)	116.7
Power Factor	0.986

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/17/21
AC Source	CW1251P	000944	VBU	VBU	02/17/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/17/21
Tape Measure	33-428	001491	VBU	VBU	02/17/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/17/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/17/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/17/21

## 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.

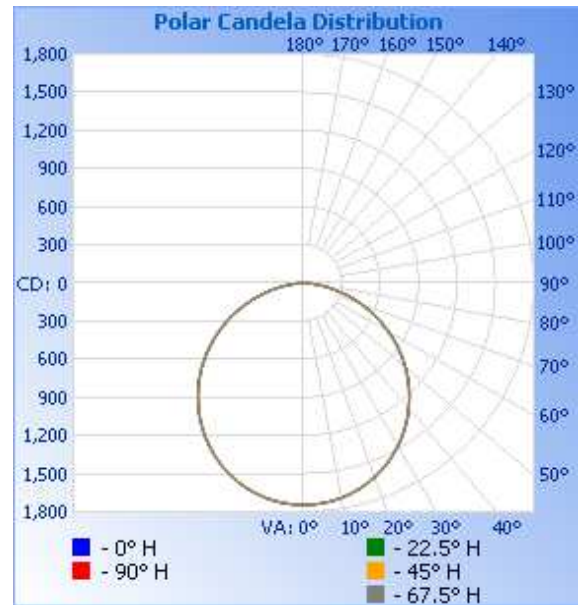
## RESULTS OF TEST

### 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	362.4	42.88	0.986	5006	116.7

### Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1745	1745	1745	1745	1745
5	1737	1738	1738	1738	1737
10	1714	1715	1715	1715	1713
15	1677	1677	1677	1676	1675
20	1624	1625	1624	1624	1622
25	1558	1559	1557	1557	1556
30	1477	1478	1476	1476	1475
35	1385	1385	1383	1383	1382
40	1282	1282	1279	1279	1278
45	1168	1167	1165	1164	1163
50	1043	1043	1041	1040	1039
55	912	910	908	908	906
60	771	770	769	768	767
65	627	626	625	624	623
70	480	479	478	478	478
75	335	334	335	335	335
80	200	201	201	201	202
85	89	89	90	90	91
90	0	0	0	0	0

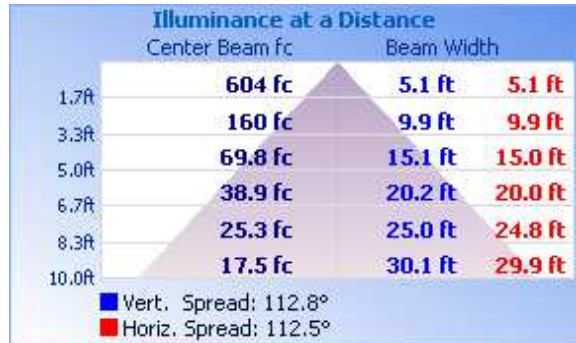


## RESULTS OF TEST (cont'd)

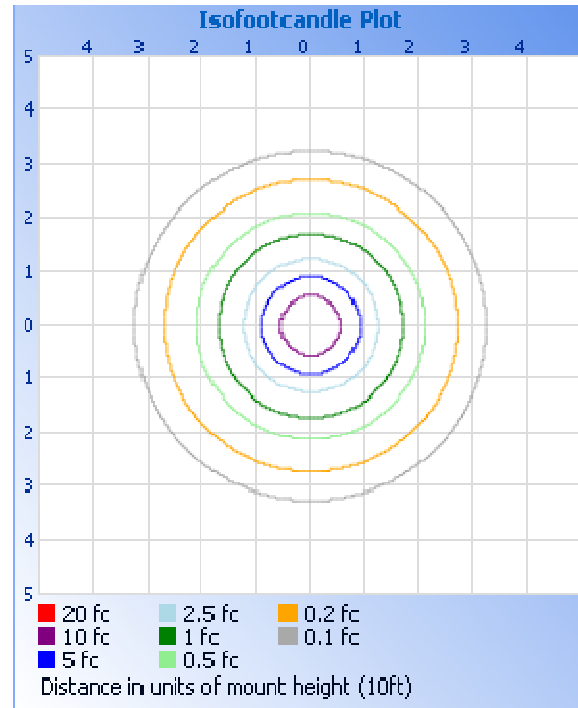
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1356	27.1
0-40	2221	44.4
0-60	3931	78.5
60-90	1075	21.5
0-90	5006	100.0
90-180	0.0	0.0
0-180	5006	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	165.1	3.3
10-20	473.1	9.4
20-30	717.4	14.3
30-40	865.4	17.3
40-50	898.4	17.9
50-60	811.5	16.2
60-70	617.9	12.3
70-80	355.0	7.1
80-90	102.4	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