

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 18, 2021

REPORT NO. 104599646LAX-002B

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-36-LED35-MO  
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-MO. 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-MO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	9059
Total Power (W)	80.77
Luminaire Efficacy (LPW)	112.2
Power Factor	0.991

## 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.

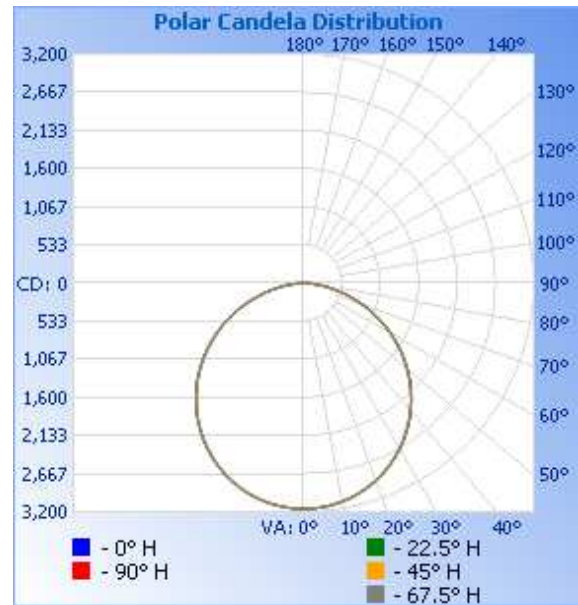
## RESULTS OF TEST

### 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	679.6	80.77	0.991	9059	112.2

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

Angle	0	22.5	45	67.5	90
0	3157	3157	3157	3157	3157
5	3142	3144	3144	3144	3142
10	3101	3103	3102	3102	3100
15	3033	3034	3033	3033	3031
20	2938	2940	2938	2938	2936
25	2819	2820	2816	2817	2814
30	2673	2673	2670	2670	2668
35	2507	2506	2502	2502	2499
40	2320	2318	2314	2313	2312
45	2114	2112	2107	2106	2105
50	1889	1886	1883	1881	1880
55	1650	1648	1644	1642	1640
60	1398	1394	1393	1390	1389
65	1137	1134	1132	1130	1129
70	871	867	866	866	866
75	609	605	605	606	606
80	365	362	364	365	366
85	162	161	163	164	164
90	0	0	0	0	0

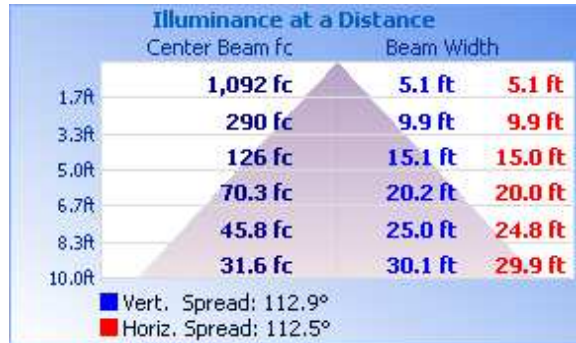


## RESULTS OF TEST (cont'd)

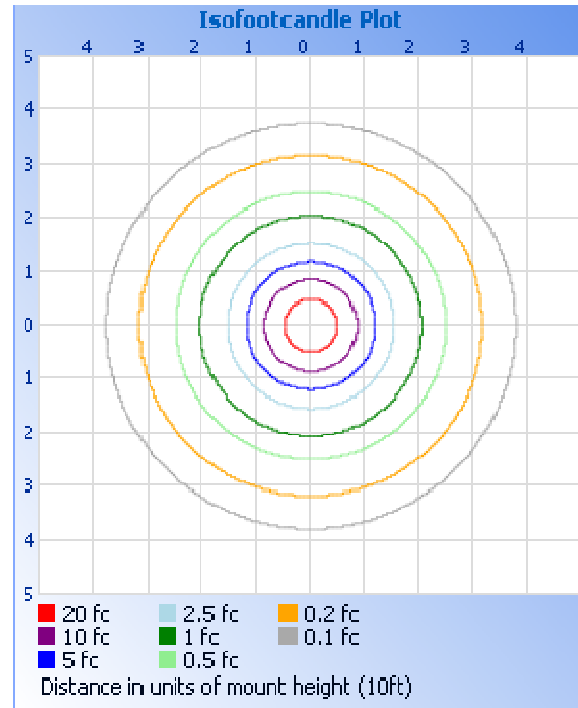
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2452	27.1
0-40	4018	44.3
0-60	7112	78.5
60-90	1947	21.5
0-90	9059	100.0
90-180	0.0	0.0
0-180	9059	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	298.6	3.3
10-20	855.7	9.4
20-30	1298	14.3
30-40	1566	17.3
40-50	1625	17.9
50-60	1469	16.2
60-70	1119	12.4
70-80	642.6	7.1
80-90	185.3	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