

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104599646

Date: February 18, 2021

REPORT NO. 104599646LAX-002C

TEST OF ONE DIRECT LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	13099
Total Power (W)	121.4
Luminaire Efficacy (LPW)	107.9
Power Factor	0.993

## 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.

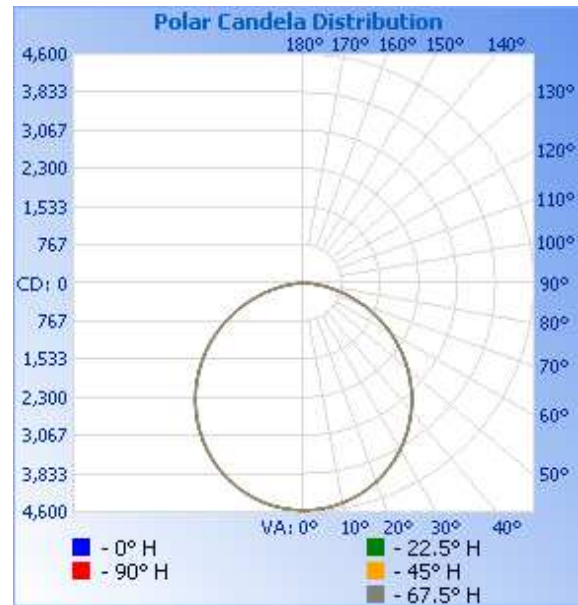
## RESULTS OF TEST

### 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	120.1	1018	121.4	0.993	13099	107.9

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

Angle	0	22.5	45	67.5	90
0	4566	4566	4566	4566	4566
5	4545	4547	4546	4546	4545
10	4484	4487	4486	4486	4485
15	4384	4387	4386	4386	4384
20	4248	4251	4248	4248	4245
25	4075	4076	4073	4072	4070
30	3867	3865	3861	3860	3858
35	3623	3623	3617	3618	3614
40	3355	3352	3348	3346	3344
45	3054	3052	3047	3045	3044
50	2729	2728	2723	2720	2719
55	2382	2381	2377	2375	2373
60	2020	2016	2014	2010	2011
65	1640	1638	1637	1635	1632
70	1258	1255	1254	1252	1252
75	878	874	877	876	875
80	526	524	527	527	528
85	234	233	236	237	237
90	0	0	0	0	0

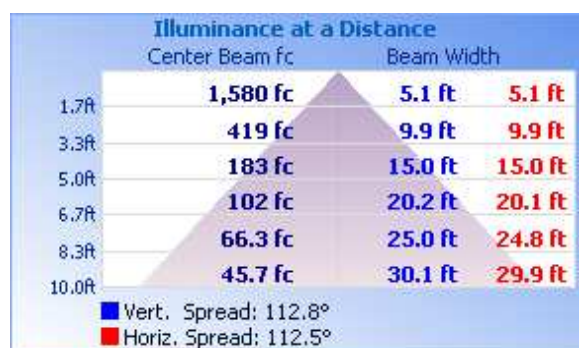


## RESULTS OF TEST (cont'd)

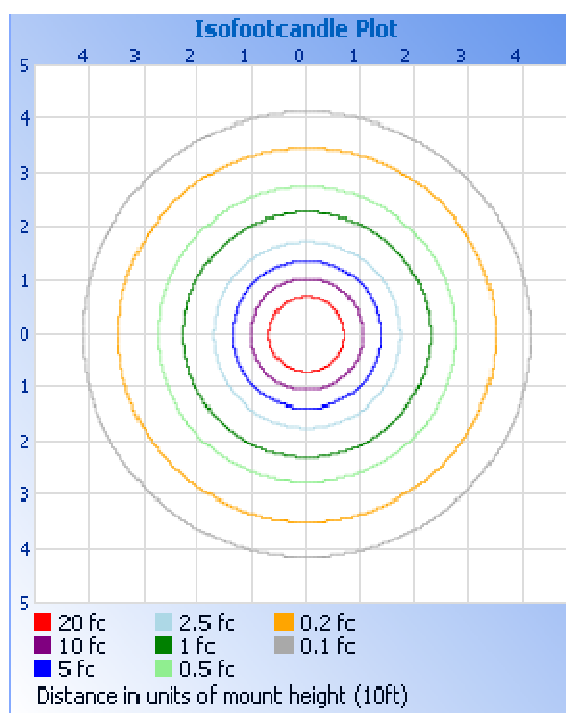
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	3546	27.1
0-40	5809	44.4
0-60	10283	78.5
60-90	2815	21.5
0-90	13099	100.0
90-180	0.0	0.0
0-180	13099	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	431.9	3.3
10-20	1237	9.4
20-30	1876	14.3
30-40	2264	17.3
40-50	2350	17.9
50-60	2124	16.2
60-70	1618	12.4
70-80	929.2	7.1
80-90	267.9	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:

A handwritten signature in black ink, appearing to read 'Kellen Murakami'.

Kellen Murakami  
Technician  
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Vladimir Kozak'.

Vladimir Kozak  
Engineering Supervisor  
Lighting Division