

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104592322

Date: February 11, 2021

REPORT NO. 104592322LAX-002D

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. GAZESQ-18-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-18-LED35-HO. The sample was received by Intertek on February 8, 2021, in undamaged condition and one sample was tested as received. The sample designation was LAN2102080745-002 .

DATES OF TESTS: February 11, 2021

## SUMMARY

Model No.:	GazeSQ-18-LED35-HO
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	5556
Total Power (W)	48.00
Luminaire Efficacy (LPW)	115.8
Power Factor	0.987

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	02/11/21
AC Source	CW1251P	000944	VBU	VBU	02/11/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	02/11/21
Tape Measure	33-428	001491	VBU	VBU	02/11/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	02/11/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	02/11/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	02/11/21

## 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.

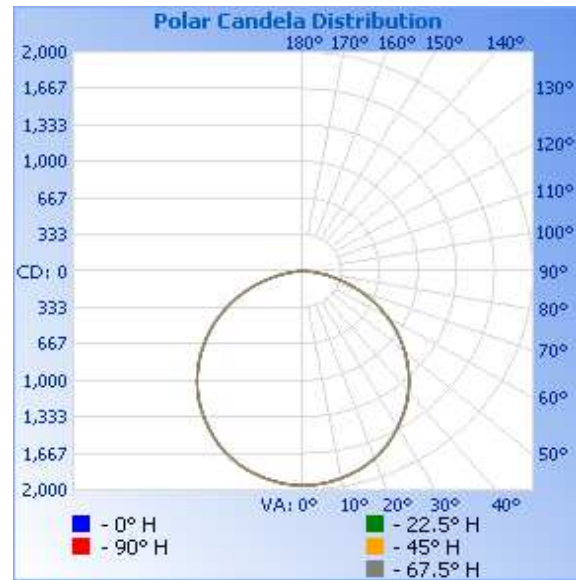
## RESULTS OF TEST

### 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)
LAN2102080745-002	Up	120.0	405.1	48.00	0.987	5556	115.8

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

Angle	0	22.5	45	67.5	90
0	1959	1959	1959	1959	1959
5	1947	1948	1949	1948	1947
10	1920	1920	1921	1920	1920
15	1878	1879	1879	1879	1878
20	1820	1821	1822	1821	1820
25	1742	1743	1743	1742	1742
30	1649	1649	1649	1648	1648
35	1544	1544	1545	1544	1544
40	1429	1429	1429	1428	1428
45	1299	1299	1298	1298	1298
50	1159	1159	1159	1158	1158
55	1012	1010	1010	1010	1010
60	855	855	854	854	854
65	694	692	692	692	691
70	528	528	527	527	527
75	364	363	363	363	363
80	209	209	209	210	209
85	84	84	84	84	84
90	0	0	0	0	0

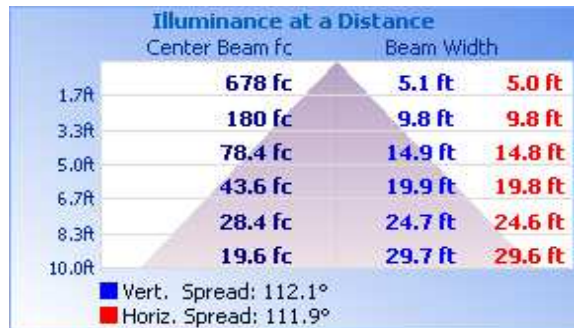


RESULTS OF TEST (cont'd)

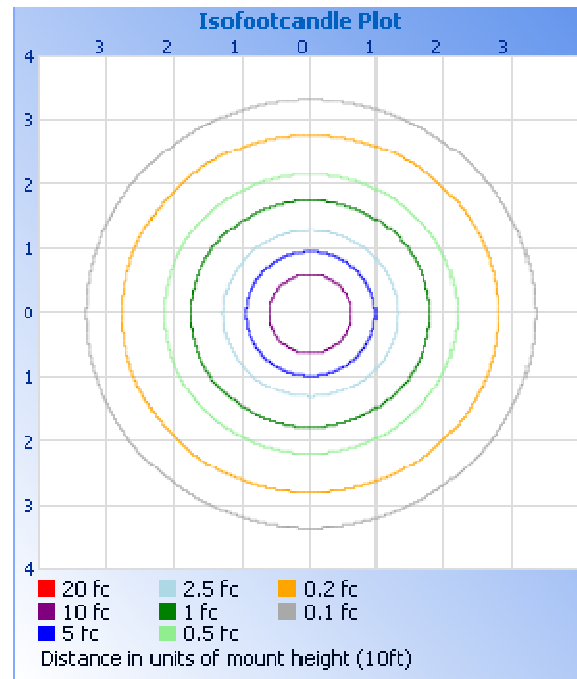
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1518	27.3
0-40	2484	44.7
0-60	4387	79.0
60-90	1169	21.0
0-90	5556	100.0
90-180	0.0	0.0
0-180	5556	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	185.0	3.3
10-20	530.1	9.5
20-30	802.7	14.4
30-40	965.9	17.4
40-50	1001	18.0
50-60	902.3	16.2
60-70	684.4	12.3
70-80	384.9	6.9
80-90	100.0	1.8

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