

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104616355

Date: March 3, 2021

REPORT NO. 104616355LAX-002

TEST OF ONE INDIRECT LED LUMINAIRE

MODEL NO. GAZERD-24-LED35-MO-D9
LED MODEL NO. LUMILEDS 2835
DRIVER MODEL NO. OSRAM OTI 20W 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 GazeRD-24-LED35-MO-D9. The sample was received by Intertek on February 26, 2021, in undamaged condition and one sample was tested as received. The sample designation was LAN2102260923-001 .

DATES OF TESTS: March 3, 2021

SUMMARY

Model No.:	GazeRD-24-LED35-MO-D9
Description:	Indirect LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1429
Total Power (W)	18.43
Luminaire Efficacy (LPW)	77.54
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	03/03/21
AC Source	CW1251P	000944	VBU	VBU	03/03/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	03/03/21
Tape Measure	33-428	001491	VBU	VBU	03/03/21
Magnetic Level	581-9	001610	10/21/20	10/21/21	03/03/21
Temp. & RH Meter	971	002137	10/13/20	10/13/21	03/03/21
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	03/03/21

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.

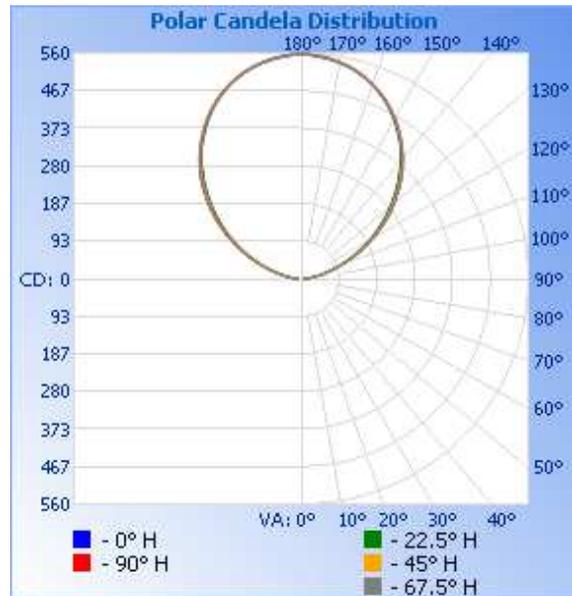
RESULTS OF TEST

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)
LAN2102260923-001	Down	120.0	155.0	18.43	0.991	1429	77.54

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	0	0	0	0	0
10	0	0	0	0	0
15	0	0	0	0	0
20	0	0	0	0	0
25	0	0	0	0	0
30	0	0	0	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0
95	16	15	15	14	14
100	38	37	38	38	39
105	68	68	70	72	74
110	106	106	109	114	115
115	150	150	155	159	161
120	197	198	202	207	209
125	244	245	250	255	258
130	291	293	296	302	304
135	337	339	343	347	349
140	382	384	387	390	391
145	422	425	426	428	428
150	457	459	460	461	462
155	488	489	489	490	492
160	512	513	513	514	516
165	531	532	532	533	534
170	544	546	546	546	547
175	553	554	555	555	555
180	558	558	558	558	558

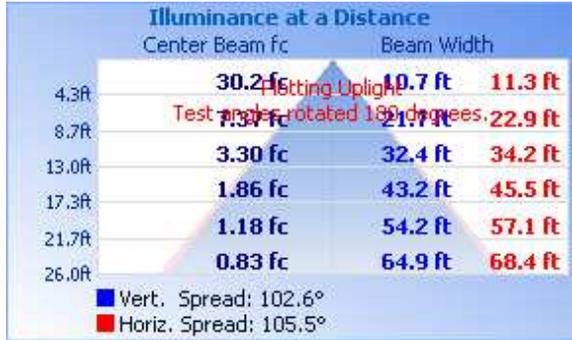


RESULTS OF TEST (cont'd)

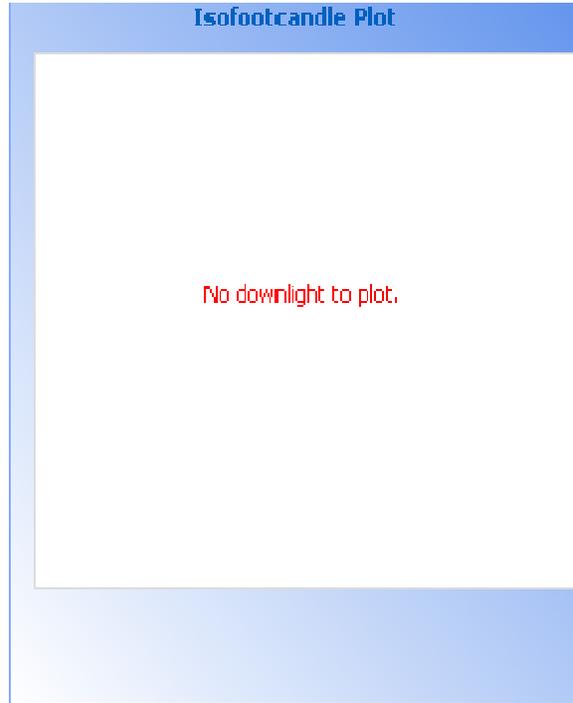
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	0.0	0.0
0-40	0.0	0.0
0-60	0.0	0.0
60-90	0.0	0.0
0-90	0.0	0.0
90-180	1429.0	100.0
0-180	1429	100.0

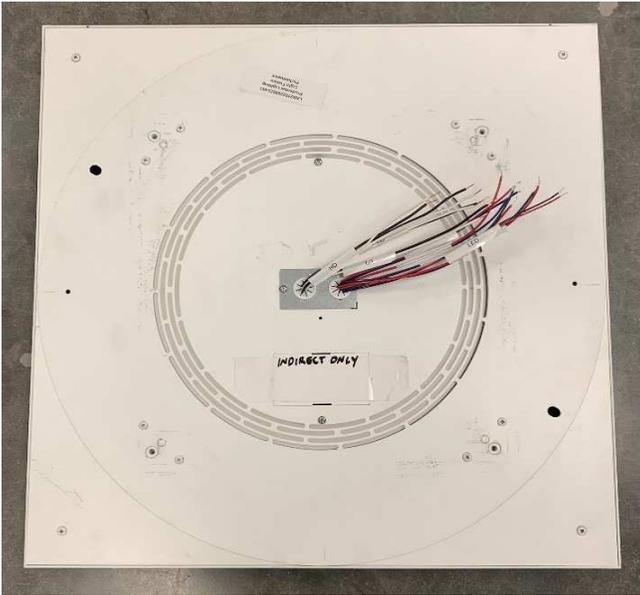
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	0.0	0.0
10-20	0.0	0.0
20-30	0.0	0.0
30-40	0.0	0.0
40-50	0.0	0.0
50-60	0.0	0.0
60-70	0.0	0.0
70-80	0.0	0.0
80-90	0.0	0.0
90-100	18.1	1.3
100-110	75.5	5.3
110-120	153.6	10.7
120-130	223.4	15.6
130-140	264.3	18.5
140-150	265.9	18.6
150-160	225.2	15.8
160-170	150.1	10.5
170-180	52.6	3.7

Spacing Criterion at 25°C

Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.

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