

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104616355

Date: March 3, 2021

REPORT NO. 104616355LAX-001

TEST OF ONE INDIRECT LED LUMINAIRE

MODEL NO. GAZERD-24-LED35-LO-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-LO-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-LO-D9
Description:	Indirect LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	552.9
Total Power (W)	7.472
Luminaire Efficacy (LPW)	74.00
Power Factor	0.975

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBV	VBV	03/03/21
AC Source	CW1251P	000944	VBV	VBV	03/03/21
Power Analyzer	WT210	000945	09/29/20	09/29/21	03/03/21
Tape Measure	33-428	001491	VBV	VBV	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.

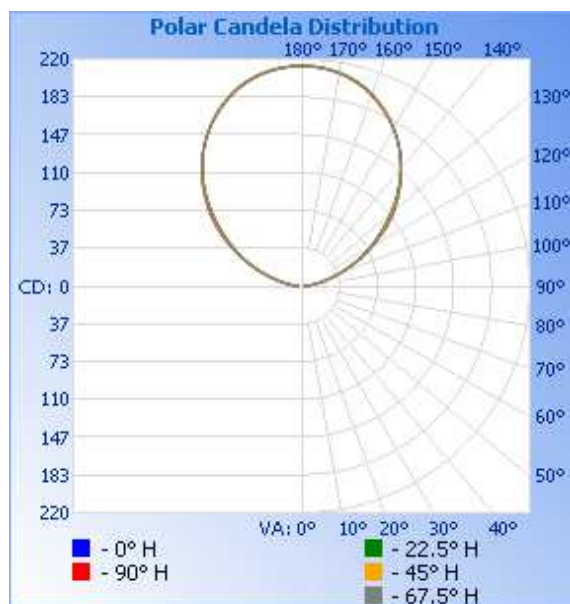
RESULTS OF TEST

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	63.87	7.472	0.975	552.9	74.00

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	6	6	6	6	5
100	15	15	15	15	16
105	27	26	27	28	29
110	42	41	43	45	45
115	60	59	60	62	63
120	77	77	79	80	81
125	96	95	97	99	100
130	114	114	115	117	118
135	132	132	132	134	134
140	149	149	149	149	149
145	164	164	164	164	164
150	177	177	177	177	177
155	189	189	189	188	188
160	198	198	198	197	197
165	205	206	205	204	204
170	210	210	210	210	210
175	213	213	213	213	213
180	214	214	214	214	214



RESULTS OF TEST (cont'd)

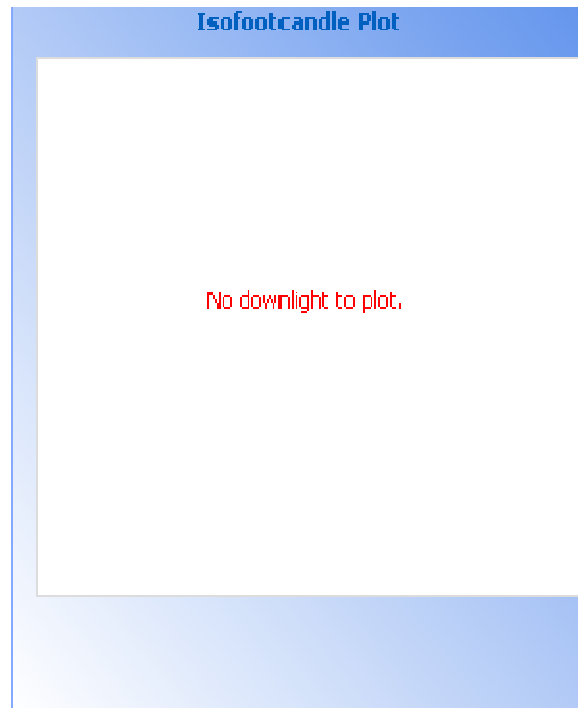
Illumination Plots

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	552.9	100.0
0-180	552.9	100.0

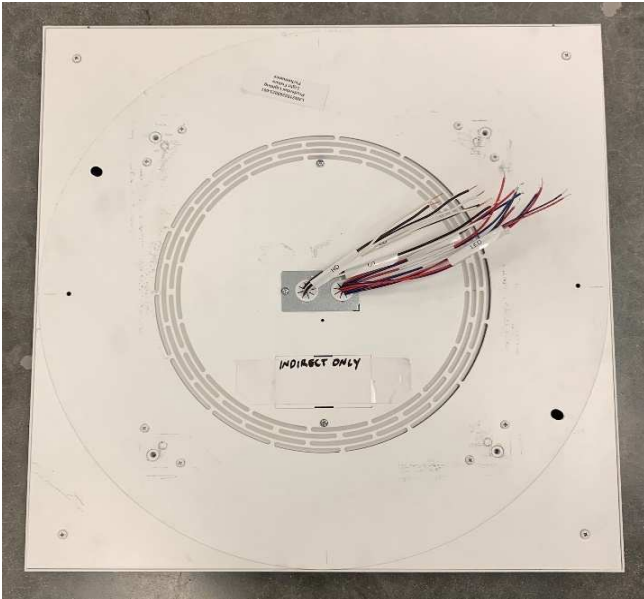
Zonal Lumens and Percentages at 25°C

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	7.1	1.3
100-110	29.5	5.3
110-120	60.1	10.9
120-130	86.8	15.7
130-140	102.2	18.5
140-150	102.4	18.5
150-160	86.7	15.7
160-170	57.8	10.5
170-180	20.2	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