

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104616355

Date: March 3, 2021

REPORT NO. 104616355LAX-004

TEST OF ONE INDIRECT LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	2843
Total Power (W)	41.30
Luminaire Efficacy (LPW)	68.84
Power Factor	0.985

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.

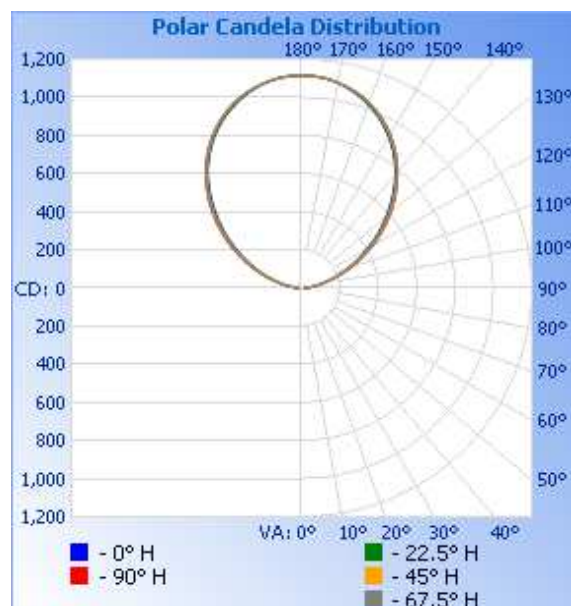
RESULTS OF TEST

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	349.2	41.30	0.985	2843	68.84

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	30	30	30	28	28
100	78	74	74	79	80
105	136	135	136	148	149
110	210	209	216	228	230
115	288	296	304	316	320
120	379	388	397	409	414
125	477	483	493	504	509
130	572	579	588	598	602
135	667	676	682	689	693
140	760	764	771	776	778
145	841	845	851	855	858
150	912	915	921	925	928
155	972	975	982	986	986
160	1021	1024	1031	1034	1034
165	1062	1065	1069	1070	1070
170	1093	1094	1096	1096	1095
175	1112	1112	1112	1110	1110
180	1116	1116	1116	1116	1116

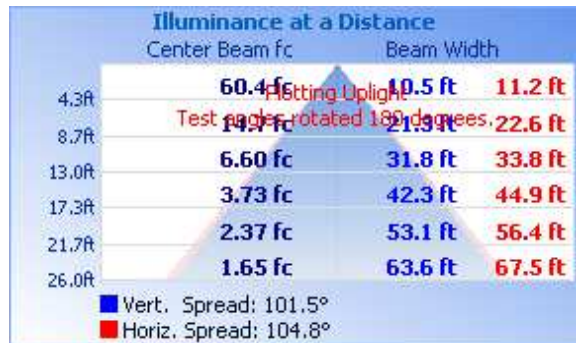


RESULTS OF TEST (cont'd)

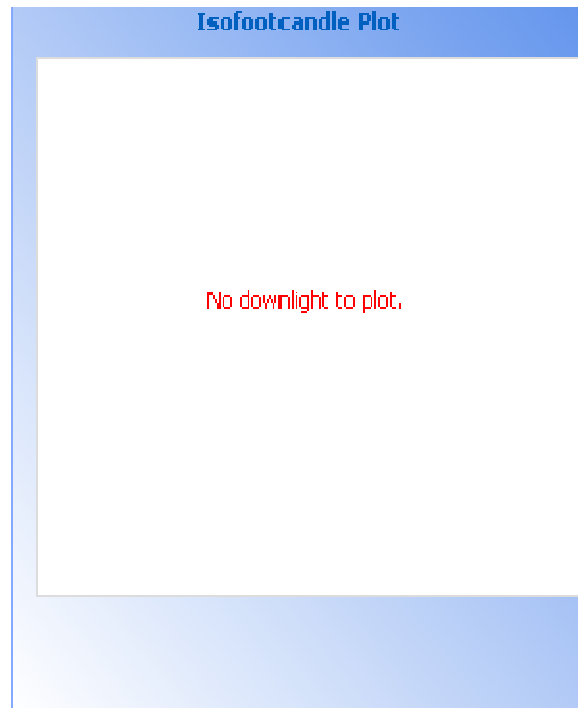
Illumination Plots

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	2843.0	100.0
0-180	2843	100.0

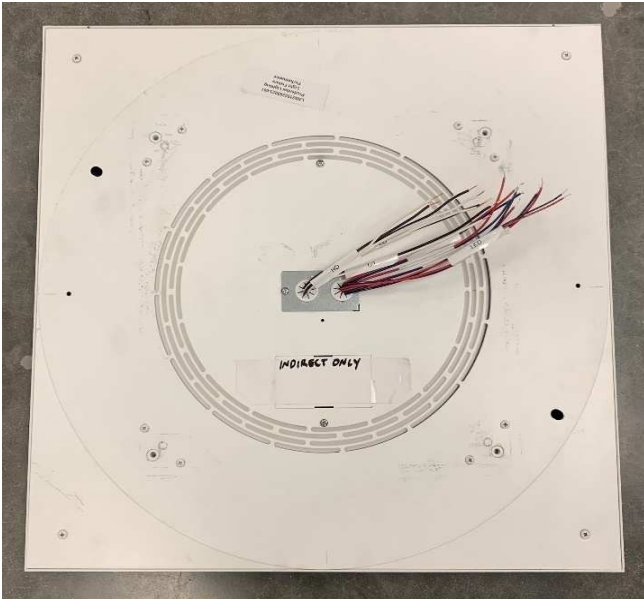
Spacing Criterion at 25°C

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

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	35.9	1.3
100-110	150.8	5.3
110-120	302.6	10.6
120-130	440.5	15.5
130-140	524.9	18.5
140-150	530.6	18.7
150-160	451.0	15.9
160-170	300.9	10.6
170-180	105.5	3.7

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