

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104616355

Date: March 3, 2021

REPORT NO. 104616355LAX-003

TEST OF ONE INDIRECT LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	2200
Total Power (W)	29.55
Luminaire Efficacy (LPW)	74.45
Power Factor	0.990

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.

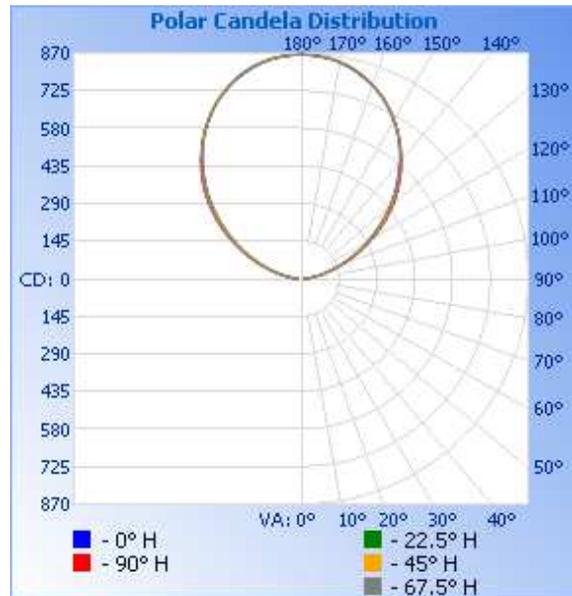
RESULTS OF TEST

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	248.8	29.55	0.990	2200	74.45

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	25	24	23	21	21
100	59	59	57	60	61
105	105	105	106	112	115
110	165	162	166	176	178
115	230	229	235	246	248
120	301	302	307	320	321
125	375	377	379	392	396
130	448	451	453	462	468
135	519	524	524	529	535
140	588	592	593	594	599
145	653	655	656	654	656
150	709	712	711	708	708
155	757	759	760	757	756
160	795	798	800	797	796
165	825	829	830	828	827
170	848	851	850	849	849
175	860	862	862	861	861
180	865	865	865	865	865

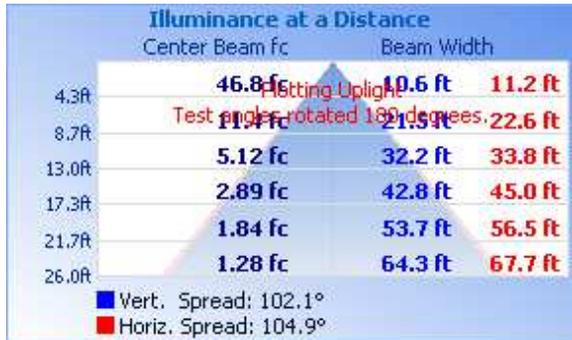


RESULTS OF TEST (cont'd)

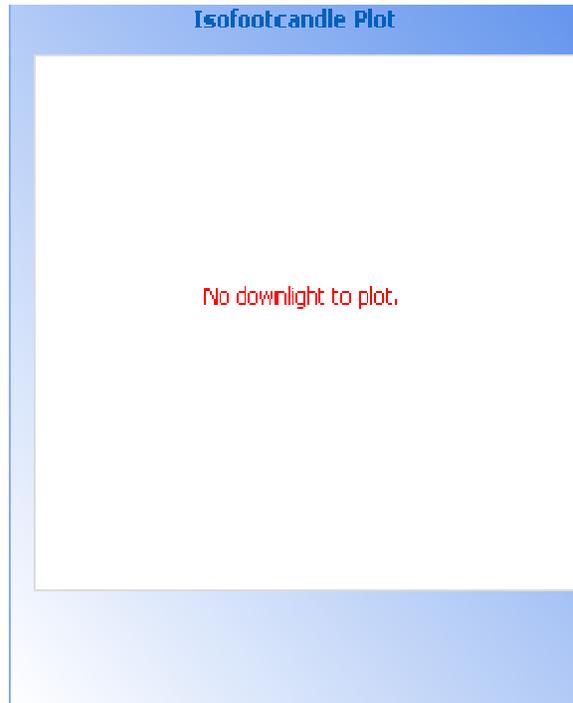
Illumination Plots

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	2200	100.0
0-180	2200	100.0

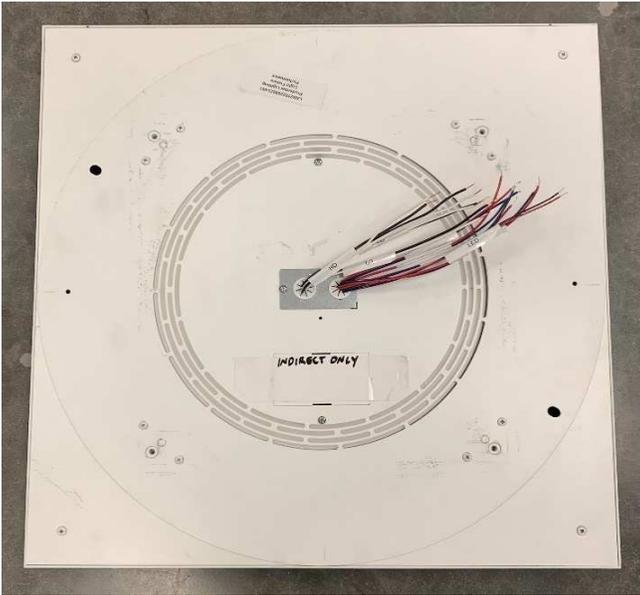
Zonal Lumens and Percentages at 25°C

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	28.1	1.3
100-110	116.5	5.3
110-120	235.4	10.7
120-130	342.4	15.6
130-140	405.0	18.4
140-150	408.8	18.6
150-160	348.7	15.9
160-170	233.4	10.6
170-180	81.8	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