

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

GazeRD-48-LED35-LO-D1

PROJECT NUMBER

G105127679

REPORT NUMBER

105127679LAX-001

ISSUE DATE

June 24, 2022

REVISED DATE

None

TEST DATES

June 24, 2022

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105127679LAX-001

MODEL NUMBER(s)

GAZERD-48-LED35-LO-D1

REPORT RENDERED TO:

PRUDENTIAL LIGHTING
1774 EAST 21ST
LOS ANGELES, CA 90058

STATEMENT OF LIMITATION

NVLAP Lab Code 600221-0. 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.

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01185794-0.

TEST STANDARDS

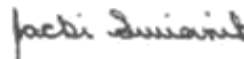
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



Ameet Alawi
Senior Associate Engineer
Lighting Division

Reviewer:



Jacki Swiernik
Staff Engineer
Lighting Division

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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2206201340-001	GazeRD-48-LED35-LO-D1	Direct only	Prototype	06/20/22

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	GazeRD-48-LED35-LO-D1	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	GazeRD-48-LED35-LO-D1
Product Description:	Direct only
LED Model No.:	Lumileds 2835
Driver Model No.:	Iota ILB-SL-CP08-HE
Light Source:	LED

Criteria	Results
Light Output (lumens)	5454.1
Input Power (W) @ 120 (Vac)	47.23
Lumen Efficacy (lm/W)	115.5
Input Power Factor () @ 120 (Vac)	0.987

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	GazeRD-48-LED35-LO-D1	NA

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

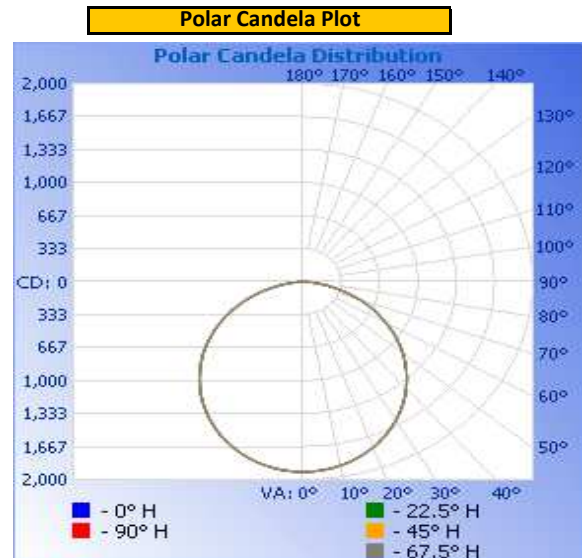
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (l)	Input ATHD(%)
Up	120.03	398.6	47.23	0.987	8.0

Light Output (lm)	Lumen Efficacy (lm/W)
5454.1	115.5

INTENSITY SUMMARY - CANDELA

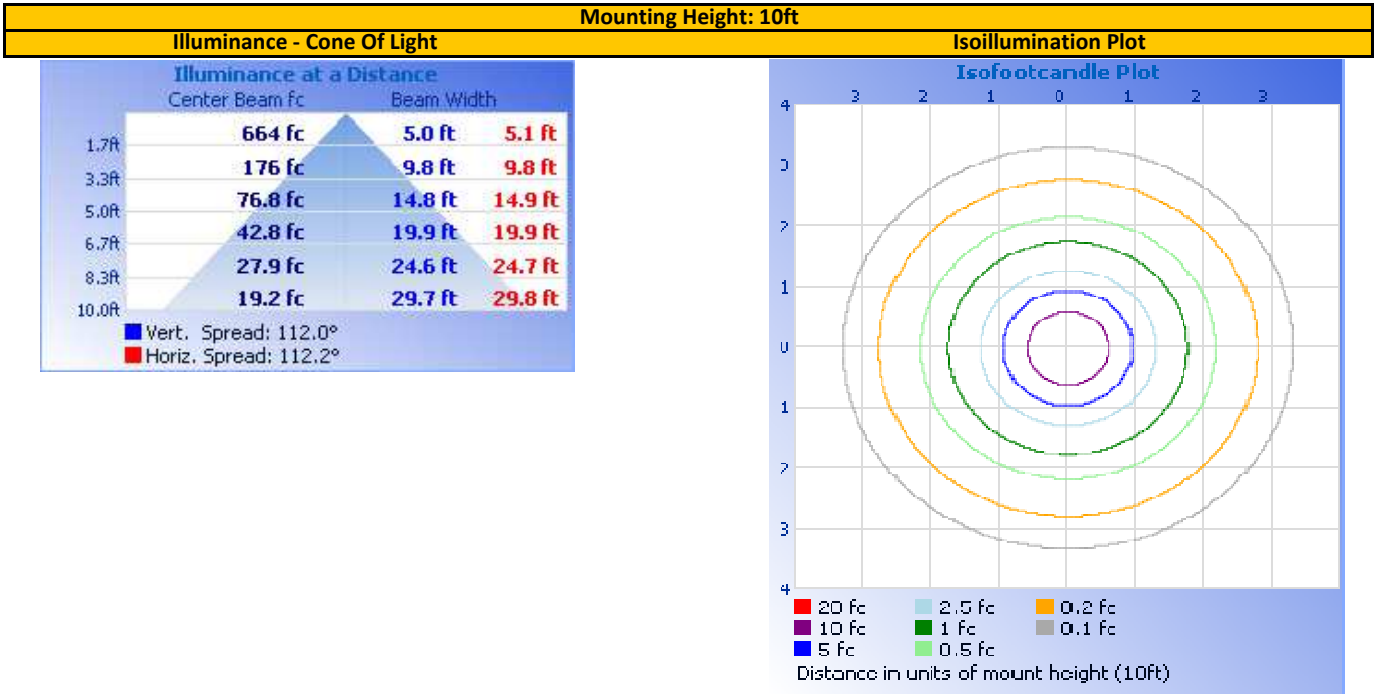
Angle	0	22.5	45	67.5	90
0	1920	1920	1920	1920	1920
5	1912	1911	1911	1911	1911
10	1885	1884	1884	1885	1884
15	1841	1840	1840	1841	1841
20	1781	1780	1781	1781	1782
25	1705	1705	1705	1706	1707
30	1614	1615	1616	1616	1616
35	1512	1511	1513	1513	1514
40	1397	1397	1398	1398	1399
45	1271	1271	1272	1273	1272
50	1136	1135	1138	1138	1139
55	991	991	993	993	994
60	837	838	839	840	839
65	684	685	686	686	686
70	521	522	523	522	522
75	358	360	359	359	358
80	208	209	209	208	206
85	83	84	83	82	81
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Entire luminous intensity matrix found in .IES file



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary								
Zone	Lumens	Luminaire	Zone	Lumens	Total			
0-30	1,486.4	27.3%	0-10	181.5	3.3%	90-100	0.0	0.0%
0-40	2,432.4	44.6%	10-20	519.3	9.5%	100-110	0.0	0.0%
0-60	4,299.2	78.8%	20-30	785.6	14.4%	110-120	0.0	0.0%
60-90	1,154.9	21.2%	30-40	946.0	17.3%	120-130	0.0	0.0%
70-100	479.3	8.8%	40-50	980.8	18.0%	130-140	0.0	0.0%
90-120	0.0	0.0%	50-60	886.0	16.2%	140-150	0.0	0.0%
0-90	5,454.1	100.0%	60-70	675.6	12.4%	150-160	0.0	0.0%
90-180	0.0	0.0%	70-80	380.8	7.0%	160-170	0.0	0.0%
0-180	5,454.1	100.0%	80-90	98.5	1.8%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	1675	1676	1677
55	1610	1613	1615
65	1509	1514	1513
75	1290	1292	1287
85	885	885	868

EQUIPMENT LIST

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	06/21/22	07/21/22
2	AC Source	CW1251P	000944	VBV	VBV
3	Power Analyzer	WT210	000945	09/21/21	09/21/22
4	Tape Measure	33-428	002225	ICO	ICO
5	Thermometer	DPi8-C24	001782	09/22/21	09/22/22
6	Magnetic Level	581-9	001610	10/05/21	10/05/22
7	Temp. & RH Meter	971	002137	09/20/21	09/20/22

REVISION HISTORY

#	Revision Date	Updated By	Reviewed BY	Description of Change
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