

# PRUDENTIAL LIGHTING TEST REPORT

## SCOPE OF WORK

LED Performance Testing

## MODEL NUMBER

GazeRD-48-LED35-HO-D1

## PROJECT NUMBER

G105127679

## REPORT NUMBER

105127679LAX-002

## 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-002

**MODEL NUMBER(s)**

GAZERD-48-LED35-HO-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**

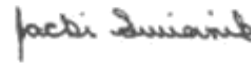
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Ameet Alawi  
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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-HO-D1	Direct only	Prototype	06/20/22

**TESTED SAMPLE CONFIGURATIONS**

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

**SAMPLE PHOTOS - TESTED CONFIGURATIONS**



## SUMMARY

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### PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	GazeRD-48-LED35-HO-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)	16227.8
Input Power (W) @ 120 (Vac)	159.69
Lumen Efficacy (lm/W)	101.6
Input Power Factor ( ) @ 120 (Vac)	0.994

## 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-HO-D1	NA

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

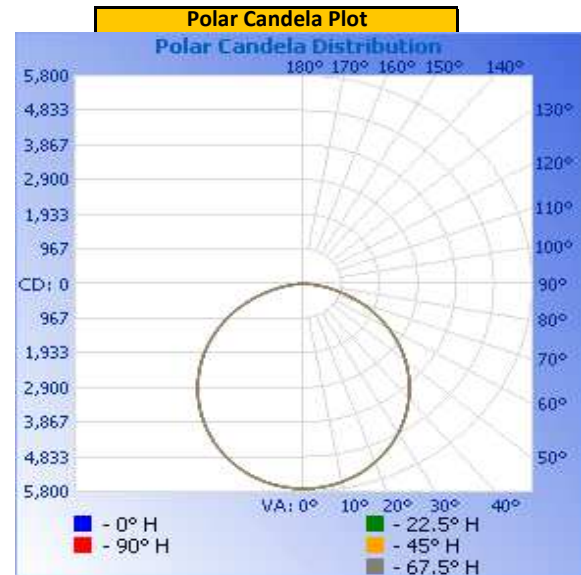
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.95	1339.7	159.69	0.994	10.9

Light Output (lm)	Lumen Efficacy (lm/W)
16227.8	101.6

**INTENSITY SUMMARY - CANDELA**

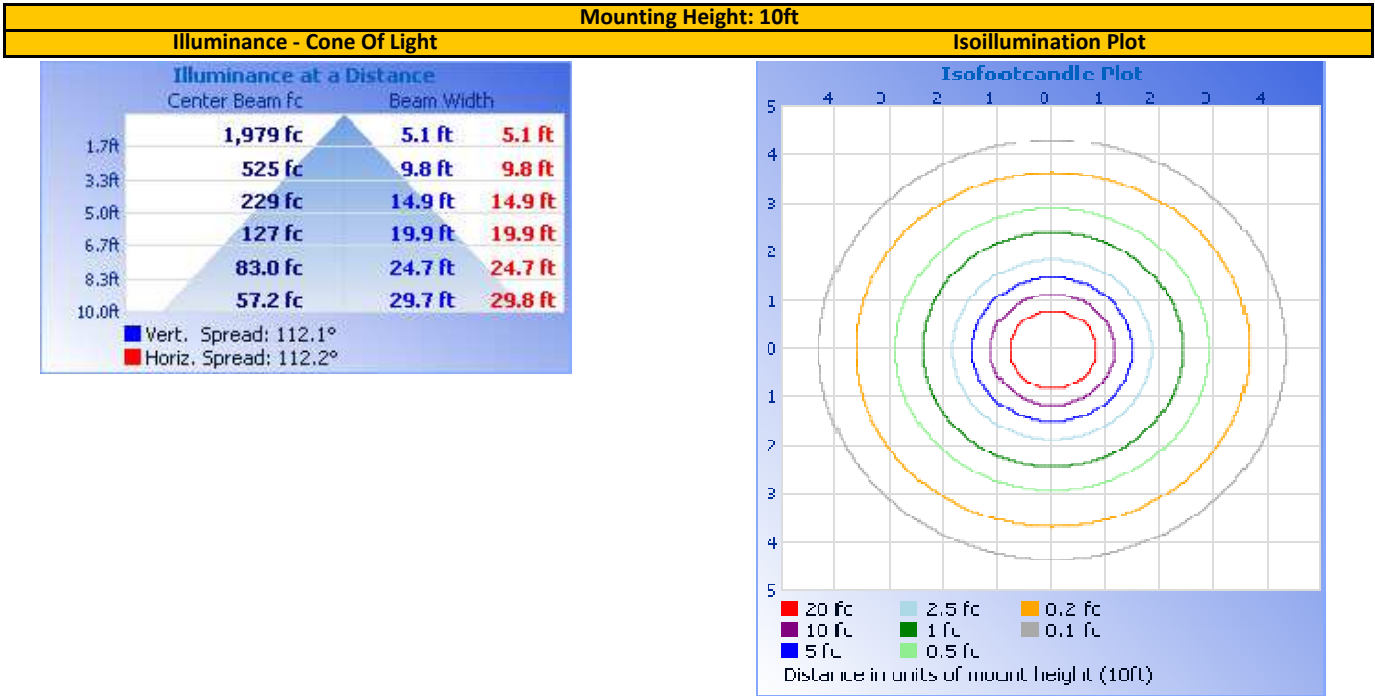
Angle	0	22.5	45	67.5	90
0	5718	5718	5718	5718	5718
5	5691	5690	5691	5692	5692
10	5613	5611	5612	5612	5614
15	5482	5480	5482	5482	5484
20	5300	5302	5304	5303	5305
25	5078	5077	5079	5080	5081
30	4810	4809	4811	4812	4814
35	4501	4504	4506	4507	4506
40	4162	4161	4168	4165	4166
45	3787	3784	3789	3791	3791
50	3387	3384	3387	3390	3389
55	2955	2952	2959	2959	2960
60	2498	2496	2499	2501	2501
65	2028	2027	2030	2030	2029
70	1544	1545	1548	1545	1543
75	1061	1061	1061	1060	1056
80	620	620	620	617	611
85	247	246	246	244	240
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	4,426.6	27.3%	90-100	0.0	0.0%
0-40	7,244.1	44.6%	100-110	0.0	0.0%
0-60	12,805.2	78.9%	110-120	0.0	0.0%
60-90	3,422.6	21.1%	120-130	0.0	0.0%
70-100	1,417.8	8.7%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	16,227.8	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	16,227.8	100.0%	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/m<sup>2</sup>)

Angle	0	45	90
45	4991	4994	4997
55	4801	4807	4809
65	4471	4476	4475
75	3822	3820	3801
85	2638	2627	2562

**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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