

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

GazeSQ-48-LED35-LO-D1

PROJECT NUMBER

G105127679

REPORT NUMBER

105127679LAX-003

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-003

MODEL NUMBER(s)

GAZESQ-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:



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Reviewer:



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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2206201340-002	GazeSQ-48-LED35-LO-D1	Direct only	Prototype	06/20/22

TESTED SAMPLE CONFIGURATIONS

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

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	GazeSQ-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)	6212.5
Input Power (W) @ 120 (Vac)	57.50
Lumen Efficacy (lm/W)	108.1
Input Power Factor () @ 120 (Vac)	0.990

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	GazeSQ-48-LED35-LO-D1	NA

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

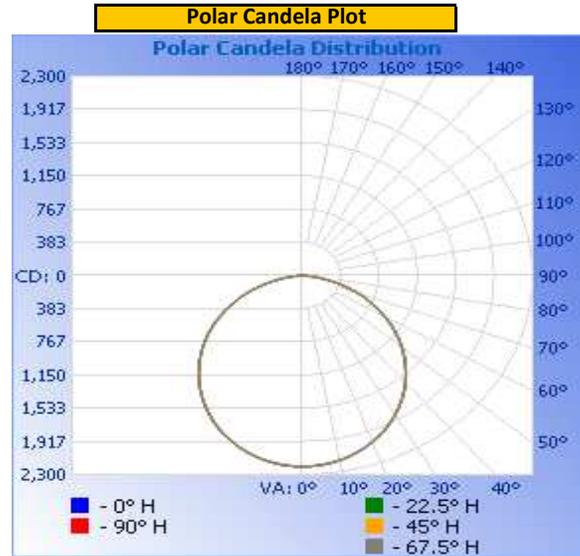
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (l)	Input ATHD(%)
Up	120.03	484.1	57.50	0.990	11.0

Light Output (lm)	Lumen Efficacy (lm/W)
6212.5	108.1

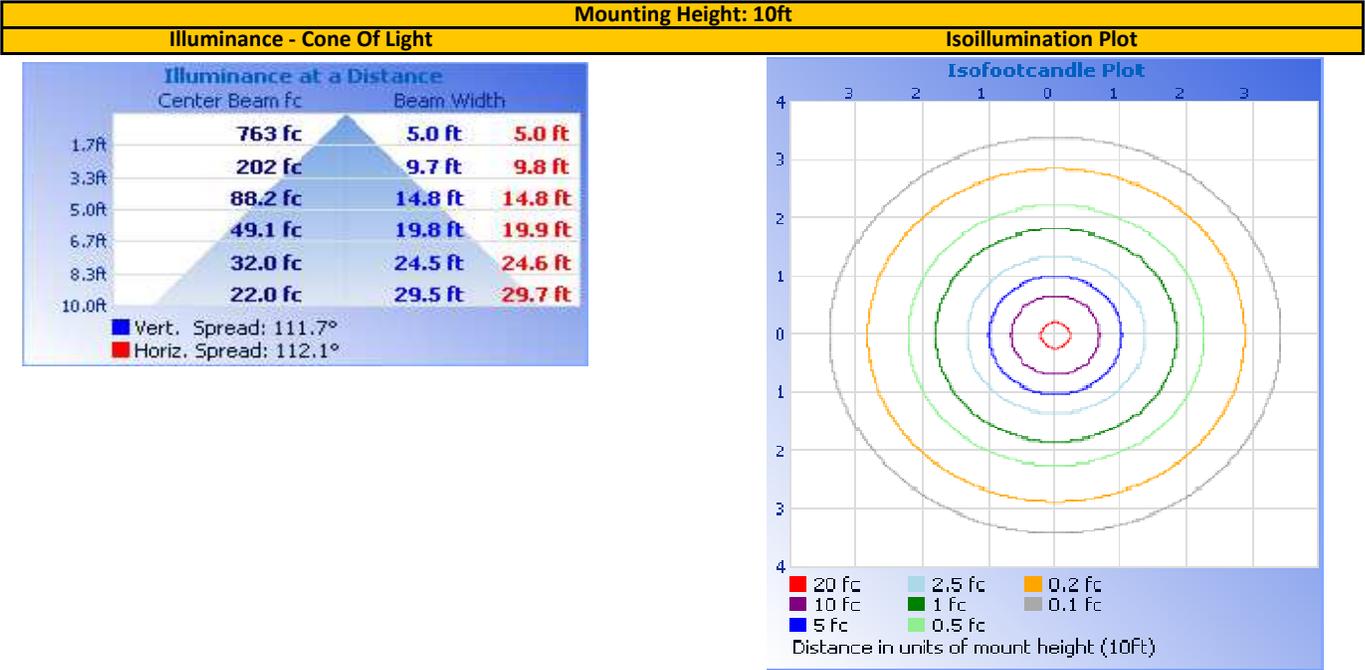
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	2204	2204	2204	2204	2204
5	2195	2193	2192	2193	2197
10	2165	2163	2162	2163	2166
15	2115	2112	2112	2113	2116
20	2046	2043	2043	2043	2047
25	1959	1956	1956	1957	1961
30	1854	1852	1851	1854	1857
35	1736	1732	1734	1735	1739
40	1604	1601	1601	1603	1608
45	1456	1455	1455	1458	1462
50	1300	1299	1300	1301	1305
55	1134	1133	1133	1134	1138
60	955	955	956	957	961
65	772	773	773	773	776
70	590	589	588	588	591
75	398	400	400	400	402
80	223	224	223	224	224
85	78	77	77	76	78
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



ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire			
0-30	1,706.1	27.5%			
0-40	2,790.8	44.9%			
0-60	4,926.6	79.3%			
60-90	1,285.9	20.7%			
70-100	520.3	8.4%			
90-120	0.0	0.0%			
0-90	6,212.5	100.0%			
90-180	0.0	0.0%			
0-180	6,212.5	100.0%			
Zone	Lumens	Total	Zone	Lumens	Total
0-10	208.4	3.4%	90-100	0.0	0.0%
10-20	596.1	9.6%	100-110	0.0	0.0%
20-30	901.6	14.5%	110-120	0.0	0.0%
30-40	1084.7	17.5%	120-130	0.0	0.0%
40-50	1123.4	18.1%	130-140	0.0	0.0%
50-60	1012.4	16.3%	140-150	0.0	0.0%
60-70	765.6	12.3%	150-160	0.0	0.0%
70-80	424.0	6.8%	160-170	0.0	0.0%
80-90	96.3	1.5%	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	1475	1474	1481
55	1416	1415	1422
65	1308	1310	1314
75	1102	1105	1112
85	638	629	638

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	VBU	VBU
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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