PRUDENTIAL LIGHTING

TEST REPORT

SCOPE OF WORK
LED Performance Testing

MODEL NUMBER
GazeSQ-48-LED35-HO-D1

PROJECT NUMBER
G105127679

REPORT NUMBER
105127679LAX-004

ISSUE DATE
June 27, 2022

REVISED DATE
None

TEST DATES
June 27, 2022

DOCUMENT CONTROL NUMBER
RTTDS-R-AMER-Test-3407

PAGES
7

REPORT NUMBER
105127679LAX-004

MODEL NUMBER(s)
GAZESQ-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:

Ameet Alawi
Senior Associate Engineer
Lighting Division

Reviewer:

Jacki Swiernik
Staff Engineer
Lighting Division

25800 Commercentre Drive
Lake Forest, CA 92630
Telephone: (949) 448-4100
www.intertek.com

SAMPLE INFORMATION

REPORT NO. 105127679LAX-004

ITEMS RECEIVED

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

TESTED SAMPLE CONFIGURATIONS

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

SAMPLE PHOTOS - TESTED CONFIGURATIONS

25800 Commercentre Drive
Lake Forest, CA 92630
Telephone: (949) 448-4100
www.intertek.com

SUMMARY **REPORT NO. 105127679LAX-004**

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	GazeSQ-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)	20733.5
Input Power (W) @ 120 (Vac)	217.67
Lumen Efficacy (lm/W)	95.3
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.

intertek
Total Quality. Assured.

25800 Commercentre Drive
Lake Forest, CA 92630
Telephone: (949) 448-4100
www.intertek.com

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 105127679LAX-004

Test Configuration	Tested Model No.	Pass/Fail/NA
1	GazeSQ-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 ()	Input ATHD(%)
Up	120.00	1824.2	217.67	0.994	10.6

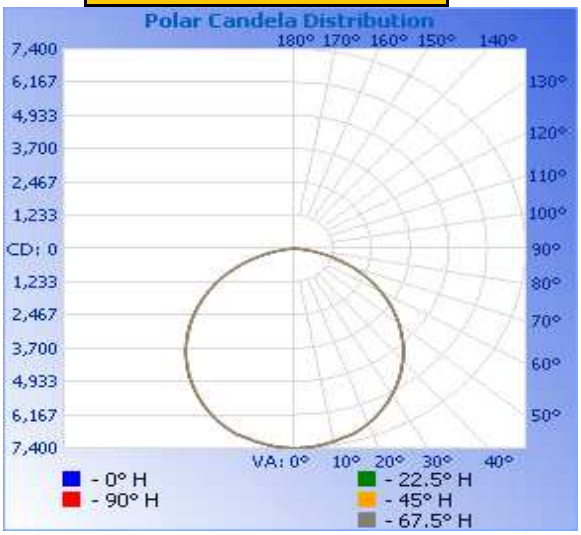
Light Output (lm)	Lumen Efficacy (lm/W)
20733.5	95.3

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	7392	7392	7392	7392	7392
5	7363	7354	7352	7355	7365
10	7261	7251	7250	7253	7263
15	7136	7123	7128	7133	7143
20	6901	6896	6894	6898	6908
25	6606	6599	6600	6603	6614
30	6249	6244	6242	6251	6260
35	5848	5839	5839	5847	5859
40	5398	5389	5390	5398	5409
45	4902	4892	4891	4903	4914
50	4367	4361	4363	4372	4379
55	3800	3791	3796	3802	3810
60	3199	3187	3192	3196	3207
65	2568	2564	2568	2573	2576
70	1929	1919	1928	1927	1932
75	1293	1282	1286	1288	1290
80	689	689	687	691	687
85	196	190	192	192	190
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

Polar Candela Plot



intertek
Total Quality. Assured.

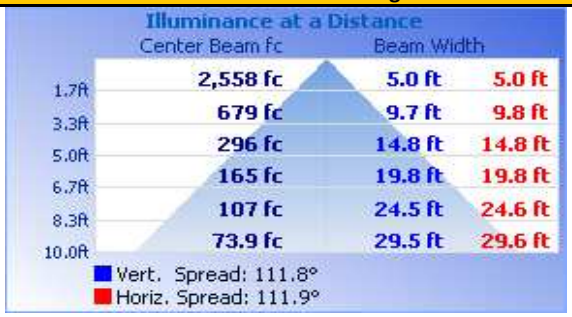
25800 Commercentre Drive
Lake Forest, CA 92630
Telephone: (949) 448-4100
www.intertek.com

REPORT NO. 105127679LAX-004

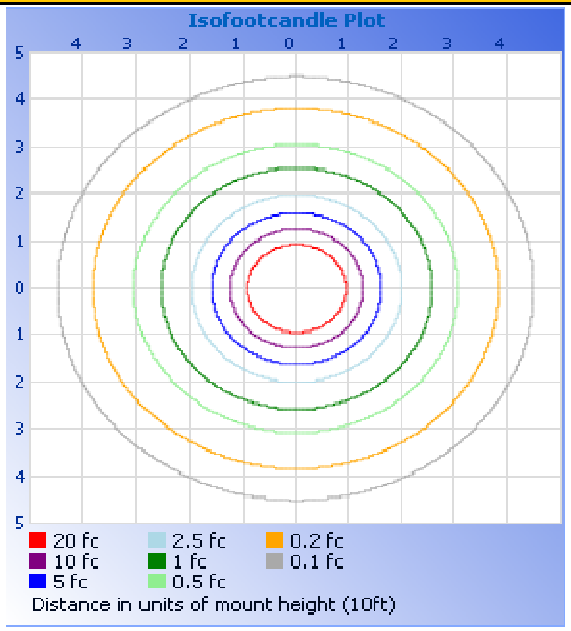
ILLUMINANCE SUMMARY

Mounting Height: 10ft

Illuminance - Cone Of Light



Isoillumination Plot



ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	5,747.8	27.7%
0-40	9,402.6	45.3%
0-60	16,570.3	79.9%
60-90	4,163.1	20.1%
70-100	1,624.9	7.8%
90-120	0.0	0.0%
0-90	20,733.5	100.0%
90-180	0.0	0.0%
0-180	20,733.5	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	698.8	3.4%	90-100	0.0	0.0%
10-20	2007.7	9.7%	100-110	0.0	0.0%
20-30	3041.3	14.7%	110-120	0.0	0.0%
30-40	3654.8	17.6%	120-130	0.0	0.0%
40-50	3776.9	18.2%	130-140	0.0	0.0%
50-60	3390.9	16.4%	140-150	0.0	0.0%
60-70	2538.3	12.2%	150-160	0.0	0.0%
70-80	1364.2	6.6%	160-170	0.0	0.0%
80-90	260.7	1.3%	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	4964	4954	4977
55	4744	4740	4757
65	4352	4352	4365
75	3577	3558	3569
85	1610	1579	1563

25800 Commercentre Drive
Lake Forest, CA 92630
Telephone: (949) 448-4100
www.intertek.com

EQUIPMENT LIST

REPORT NO. 105127679LAX-004

#	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
---	None	---	---	---
---	---	---	---	---
---	---	---	---	---