PRUDENTIAL LIGHTING

TEST REPORT

SCOPE OF WORK
LED Performance Testing

MODEL NUMBER
P8622-LED35-SO-WA-SW

PROJECT NUMBER
G104665338

REPORT NUMBER
104665338LAX-001

ISSUE DATE
April 23, 2021

REVISED DATE
None

TEST DATES
April 23, 2021

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

PAGES
7

REPORT NUMBER
104665338LAX-001

MODEL NUMBER(s)
P8622-LED35-SO-WA-SW

REPORT RENDERED TO:
PRUDENTIAL LIGHTING
1774 E 21ST STREET
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.

AUTHORIZATION
The testing performed was authorized by signed quote number Qu-01120100-3.

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

In Charge of Testing:

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Reviewer:

Vladimir Kozak
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25800 Commercentre Drive
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www.intertek.com

SAMPLE INFORMATION

REPORT NO. 104665338LAX-001

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2104191417-001	P8622-LED35-SO-WA-SW	LED Luminaire	Production	4/19/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	P8622-LED35-SO-WA-SW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS

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SUMMARY **REPORT NO. 104665338LAX-001**

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	P8622-LED35-SO-WA-SW
Product Description:	LED Luminaire
LED Model No.:	Nichia 4591A
Driver Model No.:	Osram Optotronic
Light Source:	LED

Criteria	Results
Light Output (lumens)	3099.7
Input Power (W) @ 120 (Vac)	30.61
Lumen Efficacy (lm/W)	101.3
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.

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TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 104665338LAX-001

Test Configuration	Tested Model No.	Pass/Fail/NA
1	P8622-LED35-SO-WA-SW	NA

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

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.04	257.6	30.61	0.990

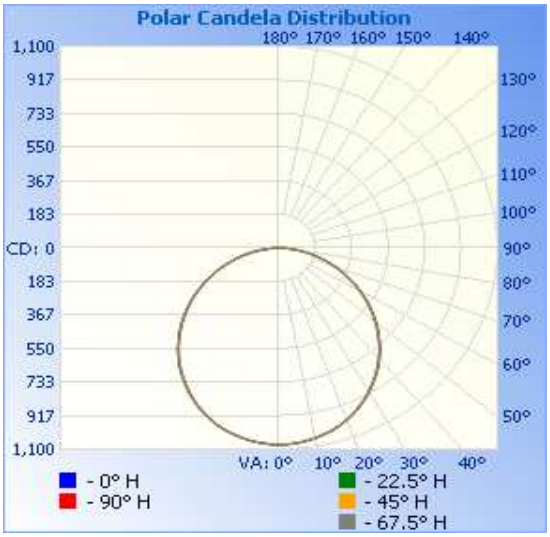
Light Output (lm)	Lumen Efficacy (lm/W)
3099.7	101.3

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	1075	1075	1075	1075	1075
5	1069	1069	1069	1069	1068
10	1054	1055	1054	1054	1053
15	1032	1032	1031	1031	1030
20	1000	1001	1000	999	998
25	958	958	957	956	955
30	908	908	906	905	903
35	851	851	849	847	846
40	788	787	786	783	782
45	716	716	714	711	710
50	640	639	637	635	634
55	560	558	557	554	554
60	475	474	473	471	471
65	390	389	388	387	388
70	304	303	303	302	301
75	220	219	219	220	218
80	138	139	139	139	139
85	64	64	65	65	64
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



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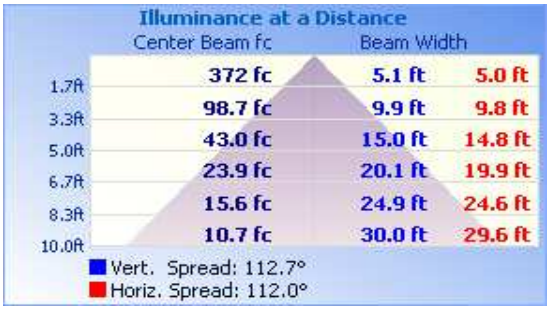
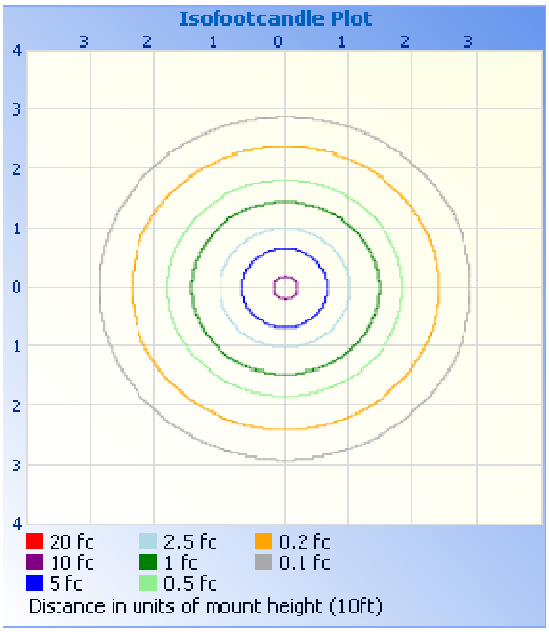
REPORT NO. 104665338LAX-001

ILLUMINANCE SUMMARY

Mounting Height: 10ft	
Illuminance - Cone Of Light	**Isoillumination Plot**





ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	833.5	26.9%
0-40	1,364.5	44.0%
0-60	2,411.8	77.8%
60-90	687.9	22.2%
70-100	303.9	9.8%
90-120	0.0	0.0%
0-90	3,099.7	100.0%
90-180	0.0	0.0%
0-180	3,099.7	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	101.5	3.3%	90-100	0.0	0.0%
10-20	291.0	9.4%	100-110	0.0	0.0%
20-30	440.9	14.2%	110-120	0.0	0.0%
30-40	531.0	17.1%	120-130	0.0	0.0%
40-50	550.2	17.7%	130-140	0.0	0.0%
50-60	497.2	16.0%	140-150	0.0	0.0%
60-70	384.0	12.4%	150-160	0.0	0.0%
70-80	231.9	7.5%	160-170	0.0	0.0%
80-90	72.0	2.3%	170-180	0.0	0.0%

SPACING CRITERION AT 25°C

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	2722	2714	2700
55	2623	2609	2596
65	2481	2468	2466
75	2281	2279	2268
85	1977	1996	1987

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EQUIPMENT LIST

REPORT NO. 104665338LAX-001

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	VBU	VBU
2	AC Source	CW1251P	000944	VBU	VBU
3	Power Analyzer	WT210	000945	09/29/20	09/29/21
4	Tape Measure	33-428	001491	VBU	VBU
5	Magnetic Level	581-9	001610	10/21/20	10/21/21
6	Thermometer	DPi8-C24	001782	10/09/20	10/09/21
7	Temp. & RH Meter	971	002137	10/13/20	10/13/21
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REVISION HISTORY

#	Revision Date	Updated By	Reviewed BY	Description of Change
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