

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

SDP-6-LED35-MO-NU-UNV-ND

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-006

ISSUE DATE

March 15, 2022

REVISED DATE

None

TEST DATES

March 15, 2022

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105014535LAX-006

MODEL NUMBER(s)

SDP-6-LED35-MO-NU-UNV-ND

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-01205890.

TEST STANDARDS

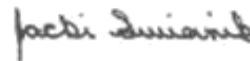
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



Nicolas Manders
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	LAN2203101129-001	SDP-6-LED35-MO-NU-UNV-ND	LED Luminaire	Production	3/10/2022
2	LAN2203101129-003B	Osram Oti 25W G2	LED Driver	Production	3/10/2022

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	SDP-6-LED35-MO-NU-UNV-ND	1,2

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	SDP-6-LED35-MO-NU-UNV-ND
Product Description:	LED Luminaire
LED Model No.:	Luxeon 2835HE
Driver Model No.:	Osram Oti 25W G2
Light Source:	LED

Criteria	Results
Light Output (lumens)	597.4
Input Power (W) @ 120 (Vac)	7.58
Lumen Efficacy (lm/W)	78.8
Input Power Factor () @ 120 (Vac)	0.929

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	SDP-6-LED35-MO-NU-UNV-ND	NA

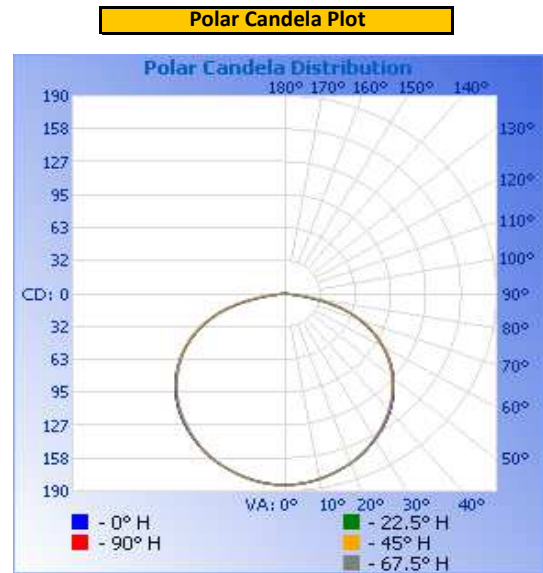
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.98	68.0	7.58	0.929	12.1

Light Output (lm)	Lumen Efficacy (lm/W)
597.4	78.8

INTENSITY SUMMARY - CANDELA

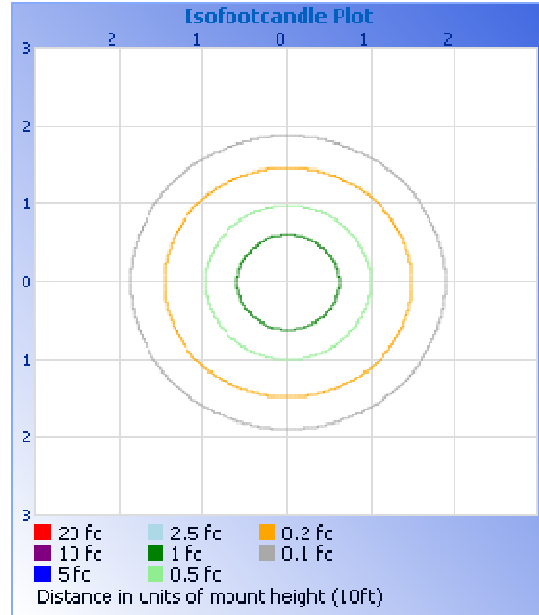
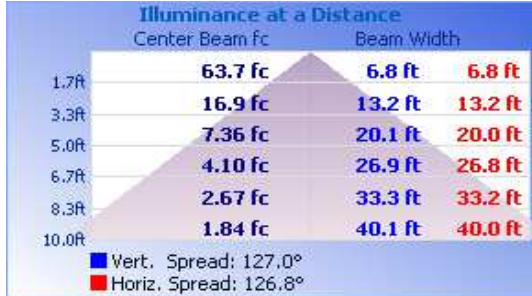
Angle	0	22.5	45	67.5	90
0	184	184	184	184	184
5	183	183	184	183	183
10	181	181	181	181	181
15	178	177	178	177	177
20	174	173	173	173	173
25	168	168	168	168	168
30	162	161	161	161	162
35	155	154	154	154	155
40	147	146	146	146	147
45	138	137	136	137	138
50	127	126	126	126	127
55	116	115	115	114	115
60	102	102	103	101	102
65	88	87	89	87	87
70	71	70	72	70	70
75	50	51	53	51	51
80	23	25	29	25	23
85	4	4	5	4	4
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



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ILLUMINANCE SUMMARY

Illuminance - Cone Of Light		Mounting Height: 10	Isoillumination Plot	
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ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	145.1	24.3%
0-40	241.7	40.5%
0-60	450.2	75.4%
60-90	147.2	24.6%
70-100	60.9	10.2%
90-120	0.0	0.0%
0-90	597.4	100.0%
90-180	0.0	0.0%
0-180	597.4	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	17.4	2.9%	90-100	0.0	0.0%
10-20	50.2	8.4%	100-110	0.0	0.0%
20-30	77.5	13.0%	110-120	0.0	0.0%
30-40	96.6	16.2%	120-130	0.0	0.0%
40-50	105.7	17.7%	130-140	0.0	0.0%
50-60	102.8	17.2%	140-150	0.0	0.0%
60-70	86.3	14.4%	150-160	0.0	0.0%
70-80	53.0	8.9%	160-170	0.0	0.0%
80-90	8.0	1.3%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.46

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	21376	21190	21360
55	22161	22085	22085
65	22779	23064	22675
75	21205	22435	21502
85	4660	5793	4660

EQUIPMENT LIST

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	01/05/22	03/31/22
2	AC Source	CW1251P	000944	VBV	VBV
3	Power Analyzer	WT210	000945	09/21/21	09/21/22
4	Tape Measure	33-428	002225	08/23/21	08/23/22
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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