

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

SDP-6-LED35-LO-NU-UNV-ND

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-005

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-005

MODEL NUMBER(s)

SDP-6-LED35-LO-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

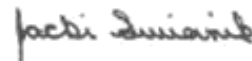
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Nicolas Manders
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Jacki Swiernik
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SAMPLE INFORMATION

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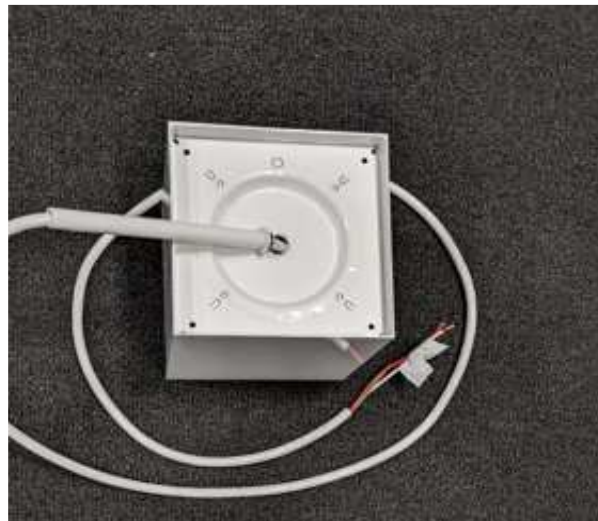
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2203101129-001	SDP-6-LED35-LO-NU-UNV-ND	LED Luminaire	Production	3/10/2022
2	LAN2203101129-003A	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-LO-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-LO-NU-UNV-ND
Product Description:	LED Luminaire
LED Model No.:	Luxeon 2835 HE
Driver Model No.:	Osram Oti 25W G2
Light Source:	LED

Criteria	Results
Light Output (lumens)	394.8
Input Power (W) @ 120 (Vac)	5.20
Lumen Efficacy (lm/W)	75.9
Input Power Factor () @ 120 (Vac)	0.884

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-LO-NU-UNV-ND	NA

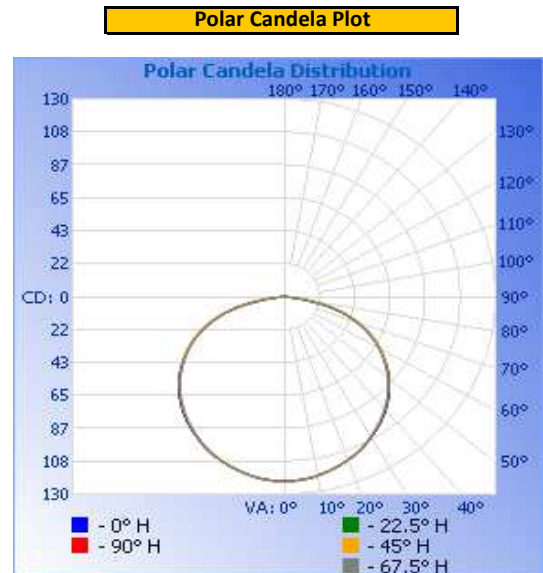
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.00	49.0	5.20	0.884	17.4

Light Output (lm)	Lumen Efficacy (lm/W)
394.8	75.9

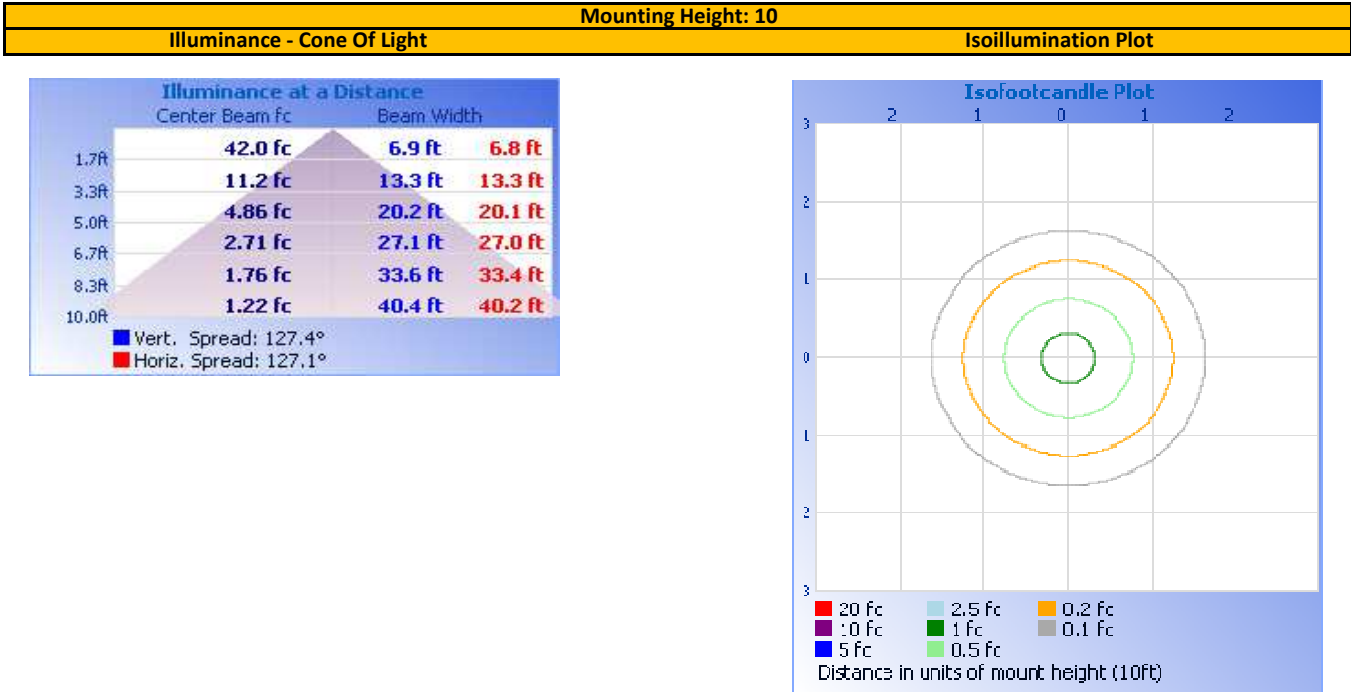
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	122	122	122	122	122
5	121	121	121	121	121
10	119	120	120	120	119
15	117	117	117	117	117
20	114	114	114	114	114
25	111	111	111	111	111
30	107	107	106	106	107
35	102	102	102	102	102
40	97	96	96	96	97
45	91	90	90	90	91
50	84	83	84	83	84
55	76	76	76	76	76
60	68	67	68	67	68
65	58	58	59	58	58
70	47	47	48	46	47
75	33	34	35	34	34
80	15	17	20	17	15
85	2	3	3	3	2
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



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	95.8	24.3%	90-100	0.0	0.0%
0-40	159.6	40.4%	100-110	0.0	0.0%
0-60	297.3	75.3%	110-120	0.0	0.0%
60-90	97.5	24.7%	120-130	0.0	0.0%
70-100	40.3	10.2%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	394.8	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	394.8	100.0%	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	14126	13987	14111
55	14621	14583	14602
65	15116	15298	15039
75	14038	14801	14250
85	3149	3778	3149

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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