

PRUDENTIAL

LIGHTING

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

SDP-6-LED35-SO-NU-UNV-HD

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-007

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-007

MODEL NUMBER(s)

SDP-6-LED35-SO-NU-UNV-HD

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

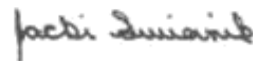
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



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SAMPLE INFORMATION

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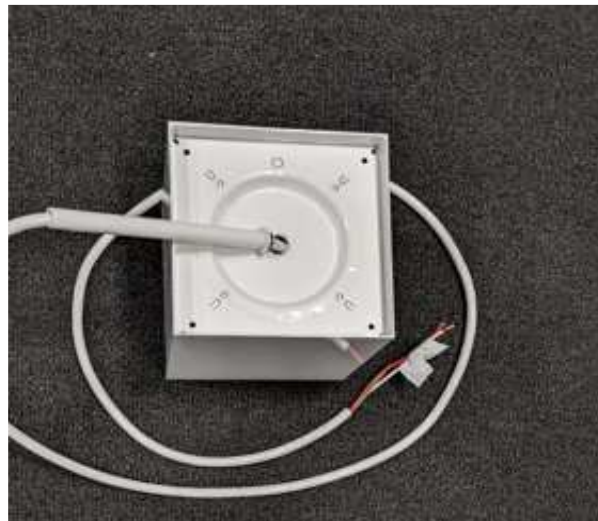
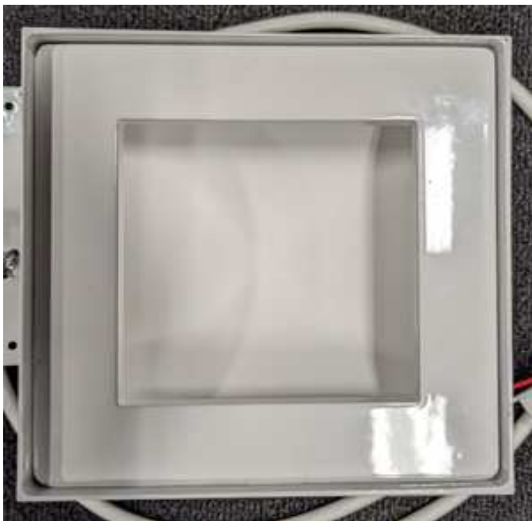
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2203101129-001	SDP-6-LED35-SO-NU-UNV-HD	LED Luminaire	Production	3/10/2022
2	LAN2203101129-003C	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-SO-NU-UNV-HD	1,2

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

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

Criteria	Results
Light Output (lumens)	790.8
Input Power (W) @ 120 (Vac)	10.07
Lumen Efficacy (lm/W)	78.6
Input Power Factor (I) @ 120 (Vac)	0.953

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-SO-NU-UNV-HD	NA

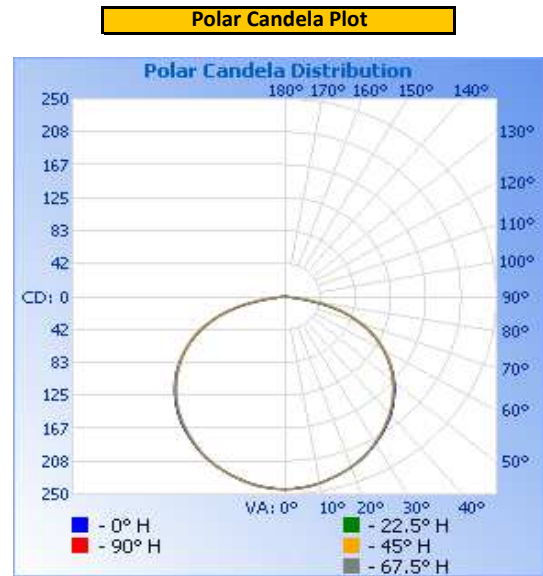
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.95	88.1	10.07	0.953	9.6

Light Output (lm)	Lumen Efficacy (lm/W)
790.8	78.6

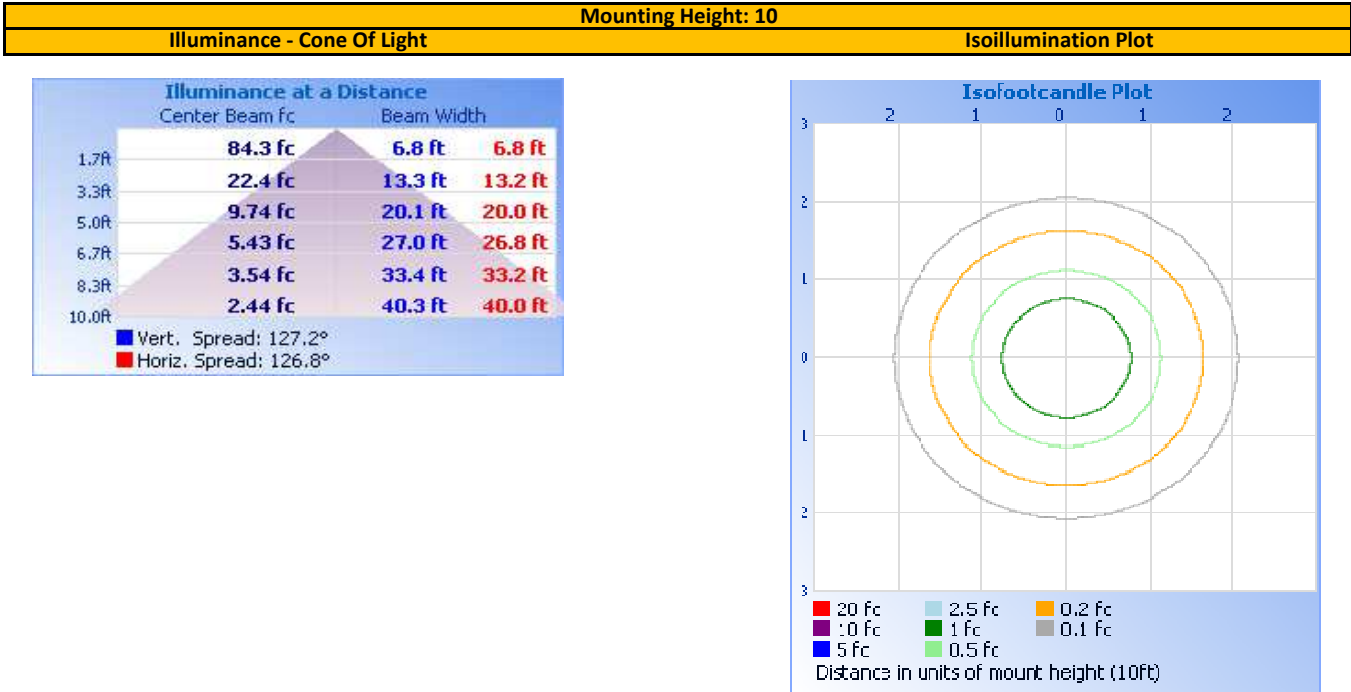
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	244	244	244	244	244
5	242	243	243	242	242
10	239	240	240	240	239
15	235	235	235	235	235
20	230	230	230	229	230
25	223	223	222	222	223
30	214	214	213	214	214
35	205	204	204	204	205
40	195	193	193	193	194
45	182	181	181	181	182
50	169	167	167	167	168
55	153	152	153	152	153
60	136	135	136	134	135
65	116	116	118	115	116
70	93	93	96	93	93
75	66	67	70	67	67
80	31	33	39	33	31
85	5	6	6	5	5
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					
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Zone	Lumens	Luminaire
0-30	192.1	24.3%
0-40	320.0	40.5%
0-60	596.0	75.4%
60-90	194.8	24.6%
70-100	80.5	10.2%
90-120	0.0	0.0%
0-90	790.8	100.0%
90-180	0.0	0.0%
0-180	790.8	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	23.1	2.9%	90-100	0.0	0.0%
10-20	66.4	8.4%	100-110	0.0	0.0%
20-30	102.6	13.0%	110-120	0.0	0.0%
30-40	127.9	16.2%	120-130	0.0	0.0%
40-50	139.9	17.7%	130-140	0.0	0.0%
50-60	136.1	17.2%	140-150	0.0	0.0%
60-70	114.3	14.5%	150-160	0.0	0.0%
70-80	69.9	8.8%	160-170	0.0	0.0%
80-90	10.5	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	28315	28051	28268
55	29338	29261	29223
65	30233	30571	29999
75	28161	29645	28373
85	6297	7683	6171

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	VBU	VBU
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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