

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

SDP-6-LED35-HO-NU-UNV-HD

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-008

ISSUE DATE

March 15, 2022

REVISED DATE

None

TEST DATES

March 15, 2022 through March 15, 2022.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105014535LAX-008

MODEL NUMBER(s)

SDP-6-LED35-HO-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

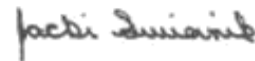
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



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SAMPLE INFORMATION

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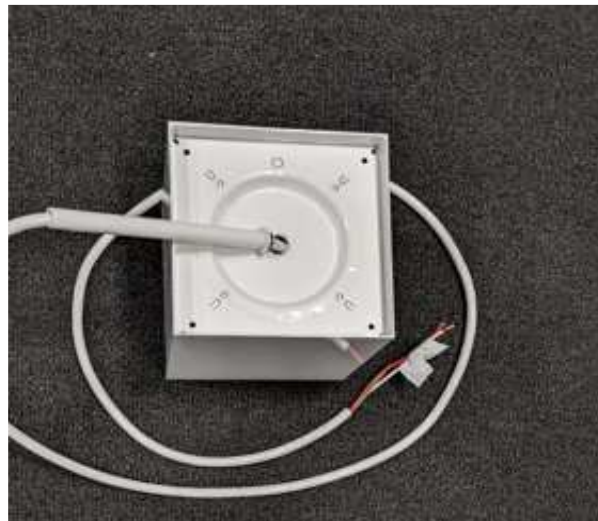
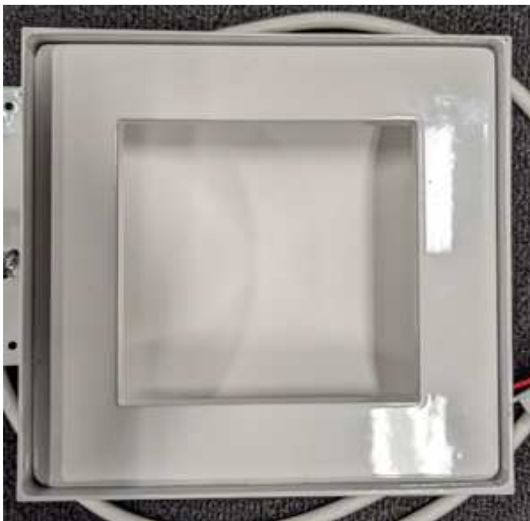
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2203101129-001	SDP-6-LED35-HO-NU-UNV-HD	LED Luminaire	Production	3/10/2022
2	LAN2203101129-003D	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-HO-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-HO-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)	1050.2
Input Power (W) @ 120 (Vac)	13.89
Lumen Efficacy (lm/W)	75.6
Input Power Factor (I) @ 120 (Vac)	0.955

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-HO-NU-UNV-HD	NA

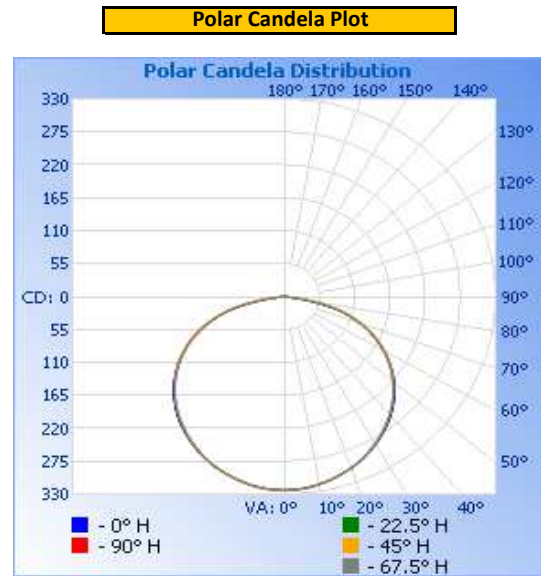
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.13	121.1	13.89	0.955	12.6

Light Output (lm)	Lumen Efficacy (lm/W)
1050.2	75.6

INTENSITY SUMMARY - CANDELA

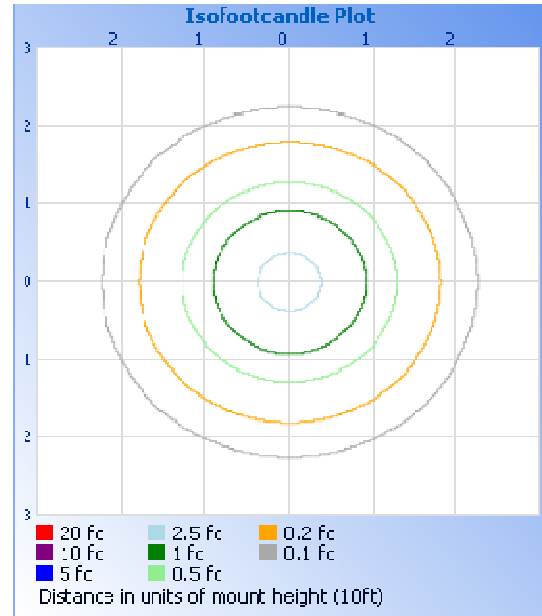
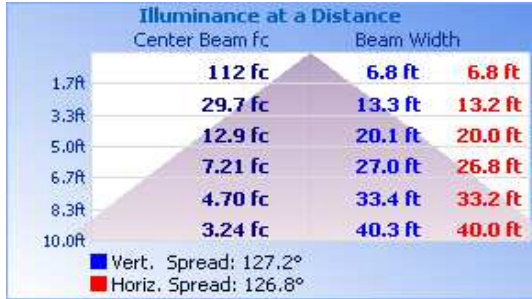
Angle	0	22.5	45	67.5	90
0	324	324	324	324	324
5	322	322	323	322	322
10	318	318	318	318	318
15	312	312	312	312	312
20	305	305	305	305	305
25	296	296	295	295	296
30	285	284	283	284	285
35	272	271	270	271	272
40	259	257	256	256	258
45	242	241	240	240	242
50	224	222	222	222	223
55	204	202	203	201	203
60	181	179	181	178	180
65	154	153	156	153	153
70	124	124	127	123	123
75	88	90	93	89	89
80	40	44	52	44	41
85	7	7	8	7	7
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

Mounting Height: 10		
illuminance - Cone Of Light	Isoillumination Plot	



ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	255.1	24.3%
0-40	425.0	40.5%
0-60	791.6	75.4%
60-90	258.6	24.6%
70-100	106.9	10.2%
90-120	0.0	0.0%
0-90	1,050.2	100.0%
90-180	0.0	0.0%
0-180	1,050.2	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	30.6	2.9%	90-100	0.0	0.0%
10-20	88.2	8.4%	100-110	0.0	0.0%
20-30	136.3	13.0%	110-120	0.0	0.0%
30-40	169.9	16.2%	120-130	0.0	0.0%
40-50	185.8	17.7%	130-140	0.0	0.0%
50-60	180.8	17.2%	140-150	0.0	0.0%
60-70	151.8	14.5%	150-160	0.0	0.0%
70-80	92.9	8.8%	160-170	0.0	0.0%
80-90	14.0	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	37629	37256	37567
55	38964	38849	38830
65	40077	40518	39843
75	37491	39273	37703
85	8312	10201	8312

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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