

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

RDP-6-LED35-MO-UP ONLY-UNV-ND

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-010

ISSUE DATE

March 16, 2022

REVISED DATE

None

TEST DATES

March 16, 2022

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105014535LAX-010

MODEL NUMBER(s)

RDP-6-LED35-MO-UP ONLY-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

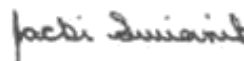
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



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Jacki Swiernik
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SAMPLE INFORMATION

REPORT NO. 105014535LAX-010

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2203101129-002	RDP-6-LED35-MO-UP ONLY-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	RDP-6-LED35-MO-UP ONLY-UNV-ND	1,2

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 105014535LAX-010

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	RDP-6-LED35-MO-UP ONLY-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)	516.1
Input Power (W) @ 120 (Vac)	7.65
Lumen Efficacy (lm/W)	67.5
Input Power Factor () @ 120 (Vac)	0.928

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

REPORT NO. 105014535LAX-010

Test Configuration	Tested Model No.	Pass/Fail/NA
1	RDP-6-LED35-MO-UP ONLY-UNV-ND	NA

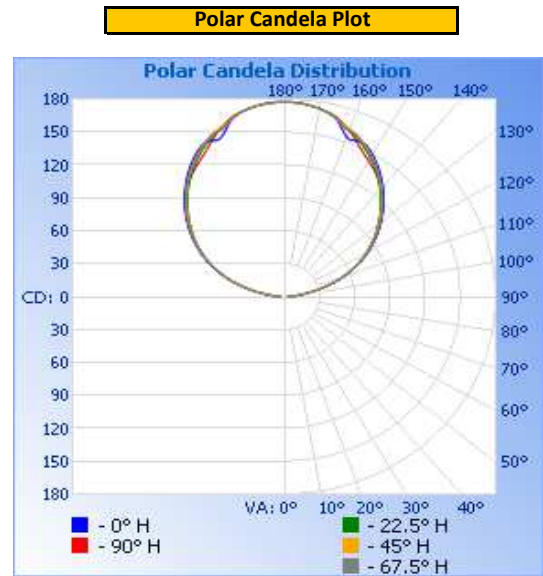
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.92	68.8	7.65	0.928	11.5

Light Output (lm)	Lumen Efficacy (lm/W)
516.1	67.5

INTENSITY SUMMARY - CANDELA

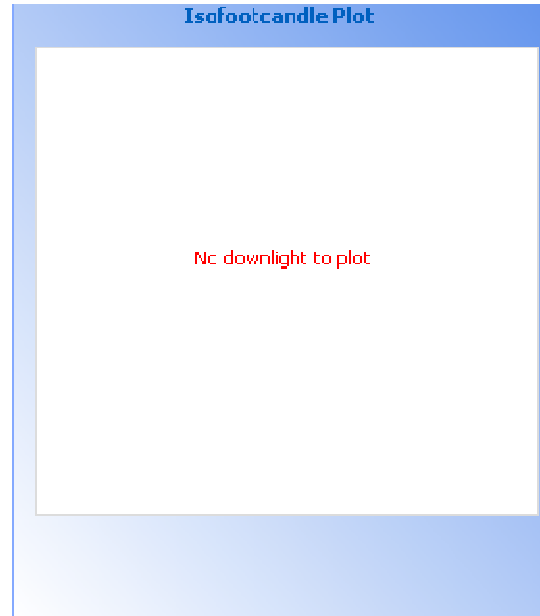
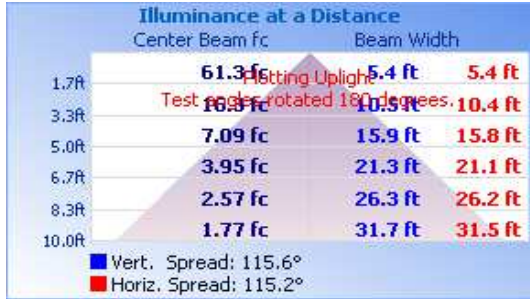
Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	0	0	0	0	0
10	0	0	0	0	0
15	0	0	0	0	0
20	0	0	0	0	0
25	0	0	0	0	0
30	0	0	0	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0
95	10	10	10	10	10
100	21	21	21	22	22
105	38	38	38	38	38
110	54	53	53	53	54
115	69	68	68	68	69
120	83	81	82	82	83
125	96	93	94	95	96
130	108	105	106	107	108
135	120	116	118	118	119
140	131	127	129	129	128
145	141	137	139	139	136
150	150	146	148	148	143
155	156	155	157	156	151
160	155	161	163	161	162
165	168	169	168	169	170
170	174	174	174	174	174
175	177	177	177	176	177
180	177	177	177	177	177



REPORT NO. 105014535LAX-010

ILLUMINANCE SUMMARY

Mounting Height: 10	
Illuminance - Cone Of Light	Isoillumination Plot



ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	0.0	0.0%
0-40	0.0	0.0%
0-60	0.0	0.0%
60-90	0.0	0.0%
70-100	11.3	2.2%
90-120	118.2	22.9%
0-90	0.0	0.0%
90-180	516.1	100.0%
0-180	516.1	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	0.0	0.0%	90-100	11.3	2.2%
10-20	0.0	0.0%	100-110	39.6	7.7%
20-30	0.0	0.0%	110-120	67.2	13.0%
30-40	0.0	0.0%	120-130	84.4	16.3%
40-50	0.0	0.0%	130-140	91.0	17.6%
50-60	0.0	0.0%	140-150	86.7	16.8%
60-70	0.0	0.0%	150-160	71.6	13.9%
70-80	0.0	0.0%	160-170	47.5	9.2%
80-90	0.0	0.0%	170-180	16.8	3.3%

SPACING CRITERION

Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	N.A.	N.A.	N.A.
55	N.A.	N.A.	N.A.
65	N.A.	N.A.	N.A.
75	N.A.	N.A.	N.A.
85	N.A.	N.A.	N.A.

EQUIPMENT LIST

REPORT NO. 105014535LAX-010

#	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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