

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

RDP-6-LED35-LO-NU-UNV-ND

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-001

ISSUE DATE

March 17, 2022

REVISED DATE

None

TEST DATES

March 17, 2022

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105014535LAX-001

MODEL NUMBER(s)

RDP-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

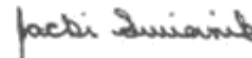
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2203101129-002	RDP-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	RDP-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.:	RDP-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)	327.9
Input Power (W) @ 120 (Vac)	5.24
Lumen Efficacy (lm/W)	62.5
Input Power Factor () @ 120 (Vac)	0.886

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	RDP-6-LED35-LO-NU-UNV-ND	NA

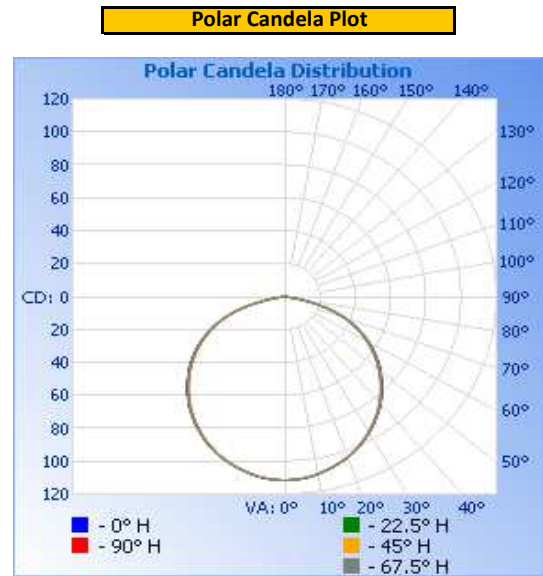
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.11	49.3	5.24	0.886	16.3

Light Output (lm)	Lumen Efficacy (lm/W)
327.9	62.5

INTENSITY SUMMARY - CANDELA

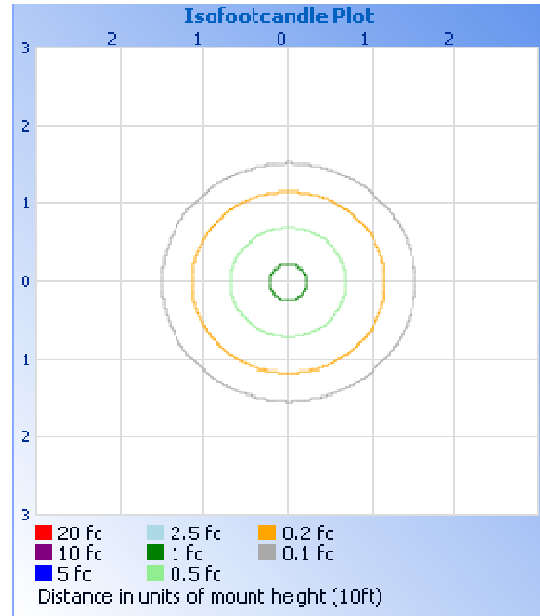
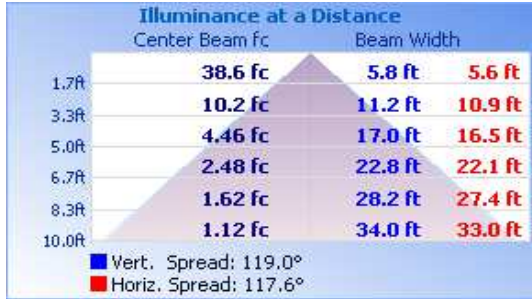
Angle	0	22.5	45	67.5	90
0	112	112	112	112	112
5	111	111	111	111	111
10	109	109	109	109	109
15	107	107	107	107	107
20	104	104	104	104	104
25	100	100	100	100	100
30	96	96	95	95	95
35	90	90	90	90	90
40	85	84	84	84	84
45	78	78	78	77	77
50	71	71	70	70	70
55	63	63	63	62	62
60	55	55	54	54	54
65	46	46	45	44	44
70	35	35	34	34	34
75	21	22	21	21	21
80	8	8	8	8	8
85	1	1	1	1	1
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	86.8	26.5%
0-40	143.1	43.7%
0-60	259.0	79.0%
60-90	69.0	21.0%
70-100	24.6	7.5%
90-120	0.0	0.0%
0-90	327.9	100.0%
90-180	0.0	0.0%
0-180	327.9	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	10.5	3.2%	90-100	0.0	0.0%
10-20	30.2	9.2%	100-110	0.0	0.0%
20-30	46.1	14.1%	110-120	0.0	0.0%
30-40	56.3	17.2%	120-130	0.0	0.0%
40-50	59.8	18.2%	130-140	0.0	0.0%
50-60	56.0	17.1%	140-150	0.0	0.0%
60-70	44.3	13.5%	150-160	0.0	0.0%
70-80	22.2	6.8%	160-170	0.0	0.0%
80-90	2.4	0.7%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	15437	15318	15199
55	15448	15253	15132
65	15080	14849	14716
75	11556	11502	11448
85	2085	1764	1924

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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