

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

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

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-009

ISSUE DATE

March 16, 2022

REVISED DATE

None

TEST DATES

March 16, 2022 through March 16, 2022.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105014535LAX-009

MODEL NUMBER(s)

RDP-6-LED35-LO-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

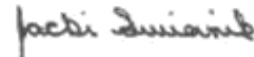
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



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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-UP ONLY-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-UP ONLY-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-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)	345.2
Input Power (W) @ 120 (Vac)	5.25
Lumen Efficacy (lm/W)	65.7
Input Power Factor (I) @ 120 (Vac)	0.889

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-UP ONLY-UNV-ND	NA

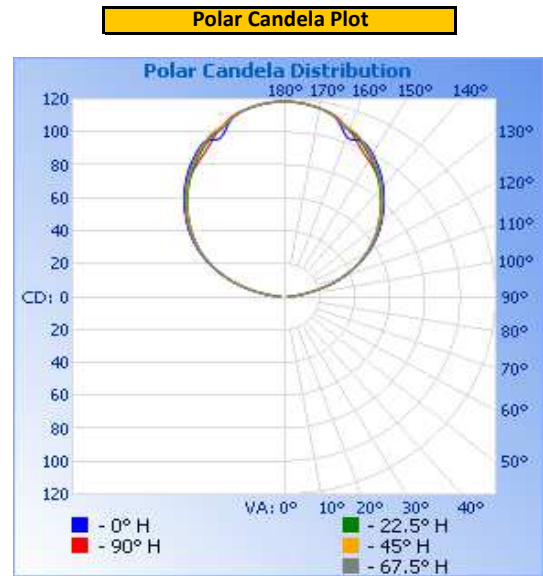
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.03	49.2	5.25	0.889	15.6

Light Output (lm)	Lumen Efficacy (lm/W)
345.2	65.7

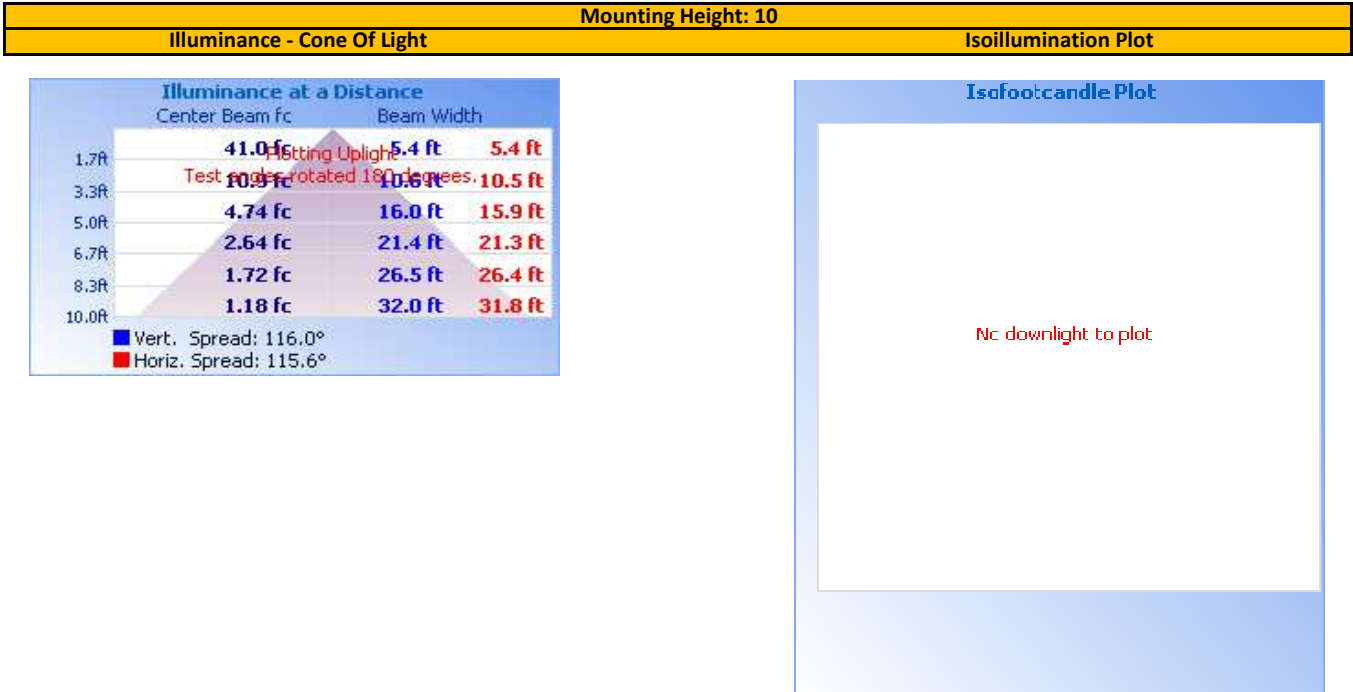
INTENSITY SUMMARY - CANDELA

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	6	6	6	7	7
100	14	14	14	15	15
105	26	25	25	25	26
110	36	35	35	36	36
115	46	45	45	46	46
120	56	54	55	55	56
125	64	63	63	64	64
130	72	70	71	72	72
135	80	78	78	79	80
140	87	85	86	86	86
145	94	91	93	93	92
150	100	98	99	99	96
155	104	103	105	104	101
160	104	108	109	108	108
165	112	113	112	113	113
170	116	116	116	116	116
175	118	118	118	118	118
180	118	118	118	118	118



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
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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	7.5	2.2%
90-120	79.0	22.9%
0-90	0.0	0.0%
90-180	345.2	100.0%
0-180	345.2	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	0.0	0.0%	90-100	7.5	2.2%
10-20	0.0	0.0%	100-110	26.5	7.7%
20-30	0.0	0.0%	110-120	45.0	13.0%
30-40	0.0	0.0%	120-130	56.6	16.4%
40-50	0.0	0.0%	130-140	60.8	17.6%
50-60	0.0	0.0%	140-150	57.9	16.8%
60-70	0.0	0.0%	150-160	47.8	13.9%
70-80	0.0	0.0%	160-170	31.7	9.2%
80-90	0.0	0.0%	170-180	11.2	3.2%

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

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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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