

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

RDP-6-LED35-MO-NU-UNV-ND

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-002

ISSUE DATE

March 18, 2022

REVISED DATE

None

TEST DATES

March 18, 2022

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105014535LAX-002

MODEL NUMBER(s)

RDP-6-LED35-MO-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

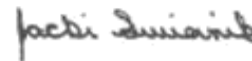
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

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-MO-NU-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-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-MO-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)	495.1
Input Power (W) @ 120 (Vac)	7.65
Lumen Efficacy (lm/W)	64.7
Input Power Factor (I) @ 120 (Vac)	0.930

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-MO-NU-UNV-ND	NA

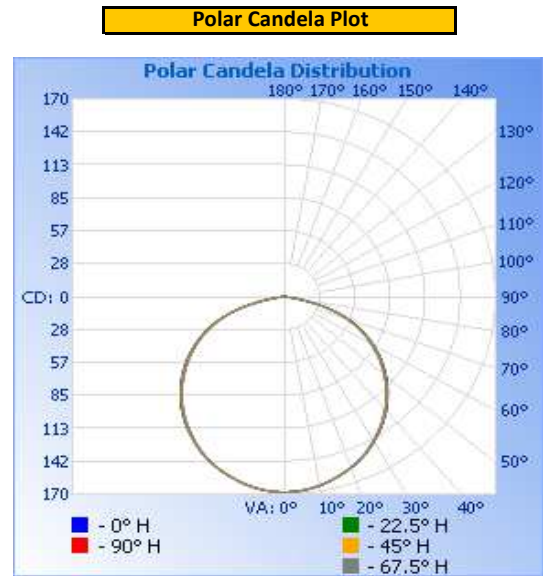
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.02	68.5	7.65	0.930	11.5

Light Output (lm)	Lumen Efficacy (lm/W)
495.1	64.7

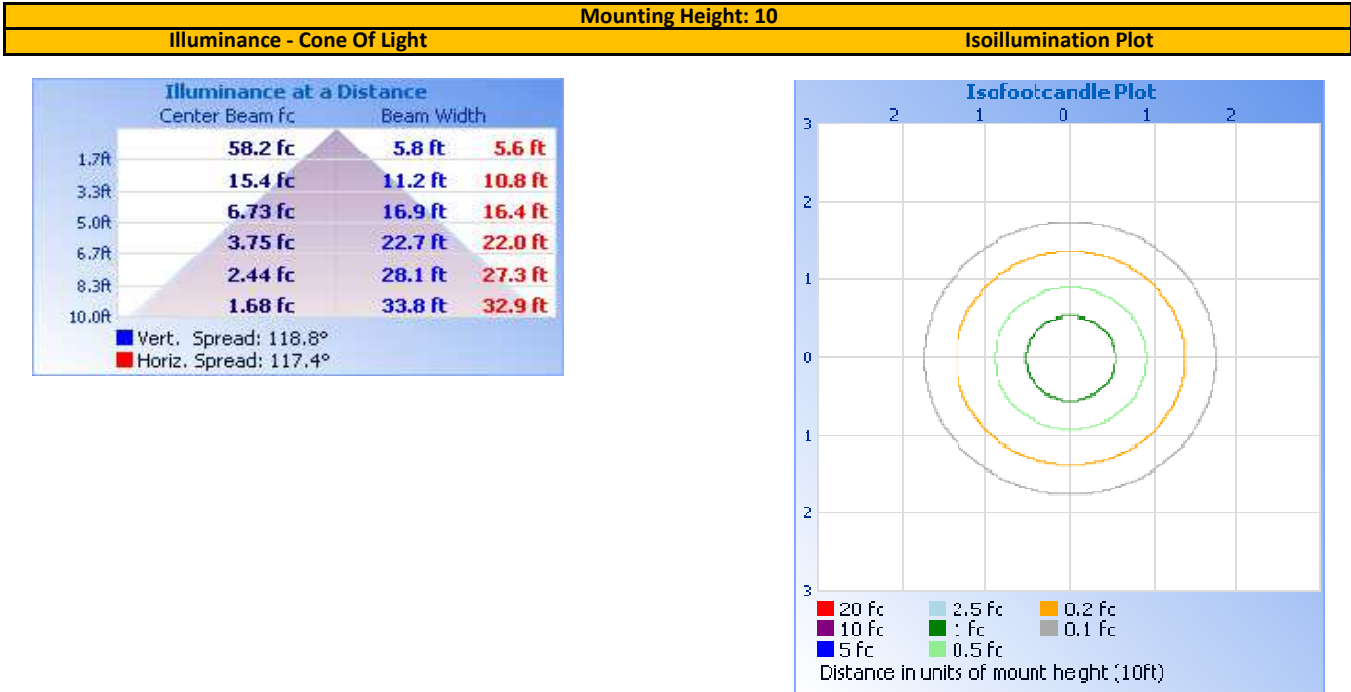
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	168	168	168	168	168
5	167	167	167	167	167
10	165	165	165	165	165
15	161	161	161	161	161
20	157	157	157	156	156
25	151	151	151	151	151
30	144	144	144	144	143
35	136	136	136	135	135
40	128	127	127	126	126
45	118	118	117	116	116
50	107	107	106	105	105
55	95	95	94	94	93
60	83	82	82	81	81
65	69	69	68	67	67
70	53	53	52	52	52
75	32	33	32	32	32
80	12	12	12	12	12
85	2	2	2	2	2
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					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	131.0	26.5%	0-10	15.9	3.2%
0-40	216.0	43.6%	10-20	45.5	9.2%
0-60	390.5	78.9%	20-30	69.6	14.1%
60-90	104.5	21.1%	30-40	85.0	17.2%
70-100	37.6	7.6%	40-50	90.3	18.2%
90-120	0.0	0.0%	50-60	84.2	17.0%
0-90	495.1	100.0%	60-70	67.0	13.5%
90-180	0.0	0.0%	70-80	33.9	6.8%
0-180	495.1	100.0%	80-90	3.7	0.7%
			90-100	0.0	0.0%
			100-110	0.0	0.0%
			110-120	0.0	0.0%
			120-130	0.0	0.0%
			130-140	0.0	0.0%
			140-150	0.0	0.0%
			150-160	0.0	0.0%
			160-170	0.0	0.0%
			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	23303	23145	22967
55	23246	22953	22758
65	22818	22389	22223
75	17496	17550	17442
85	3207	2886	2886

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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