

PRUDENTIAL LIGHTING TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

RDP-6-LED35-SO-NU-UNV-ND

PROJECT NUMBER

G105014535

REPORT NUMBER

105014535LAX-003

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-003

MODEL NUMBER(s)

RDP-6-LED35-SO-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

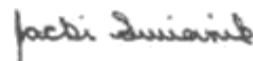
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



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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-SO-NU-UNV-ND	LED Luminaire	Production	3/10/2022
2	LAN2203101129-003C	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-SO-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-SO-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)	647.6
Input Power (W) @ 120 (Vac)	10.14
Lumen Efficacy (lm/W)	63.9
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	RDP-6-LED35-SO-NU-UNV-ND	NA

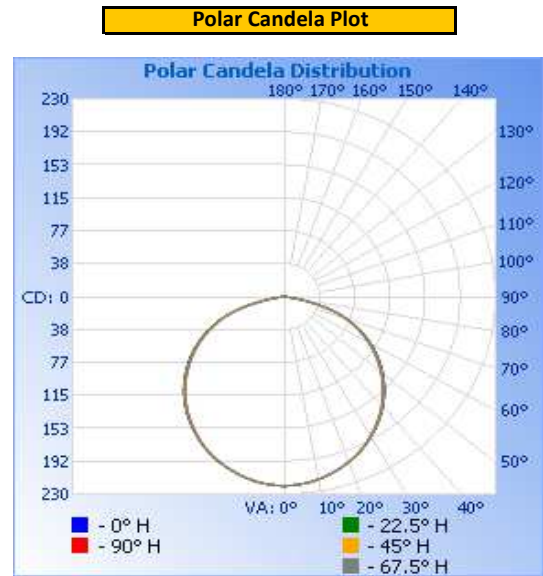
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.95	88.5	10.14	0.955	9.2

Light Output (lm)	Lumen Efficacy (lm/W)
647.6	63.9

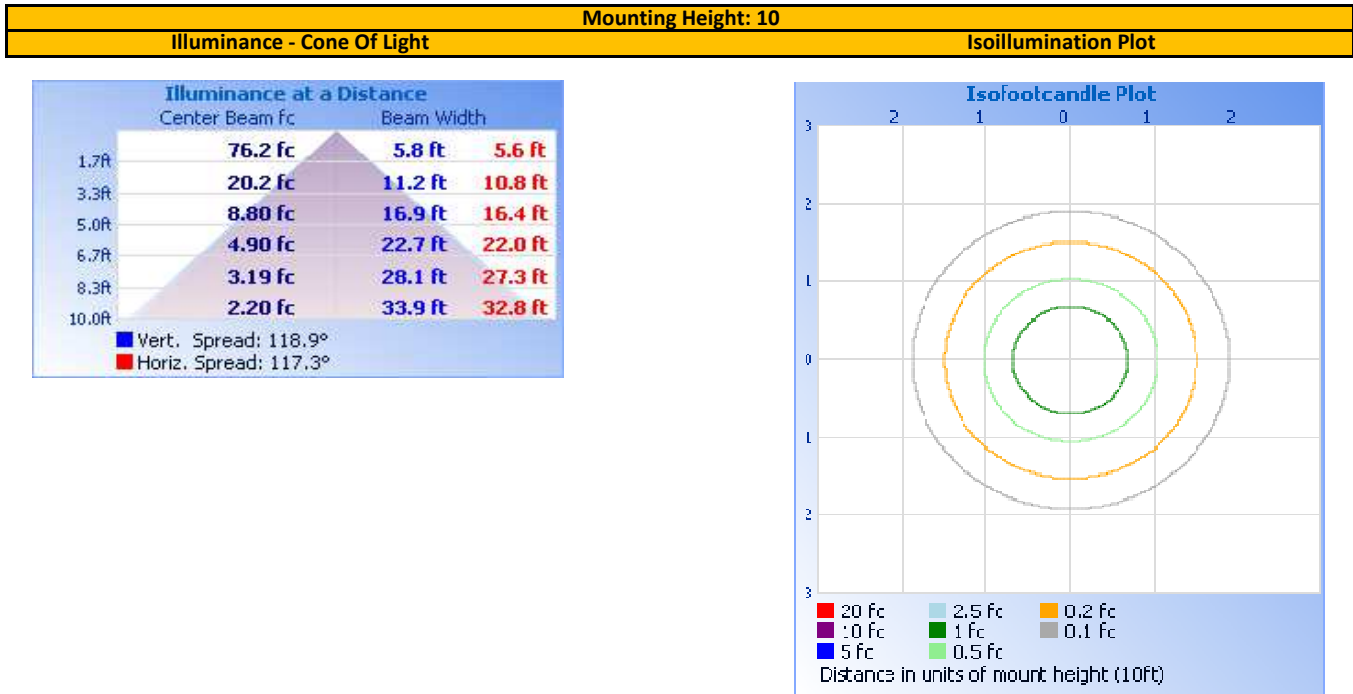
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	220	220	220	220	220
5	219	219	219	219	219
10	216	216	216	216	216
15	211	211	211	211	211
20	205	205	205	205	205
25	198	198	198	197	197
30	189	188	188	188	188
35	178	178	178	177	177
40	167	167	166	165	165
45	154	154	153	152	152
50	140	140	139	138	138
55	125	124	123	122	122
60	108	108	107	106	106
65	90	90	88	88	88
70	70	70	68	68	68
75	43	43	43	42	42
80	16	15	16	16	15
85	3	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	171.4	26.5%	90-100	0.0	0.0%
0-40	282.6	43.6%	100-110	0.0	0.0%
0-60	511.0	78.9%	110-120	0.0	0.0%
60-90	136.6	21.1%	120-130	0.0	0.0%
70-100	49.2	7.6%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	647.6	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	647.6	100.0%	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	30498	30280	30043
55	30434	30068	29752
65	29796	29234	28969
75	23112	23004	22680
85	4169	3849	3849

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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