

# PRUDENTIAL

# LIGHTING

## TEST REPORT

### SCOPE OF WORK

LED Performance Testing

### MODEL NUMBER

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

### PROJECT NUMBER

G105014535

### REPORT NUMBER

105014535LAX-011

### 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-011

**MODEL NUMBER(s)**

RDP-6-LED35-SO-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**

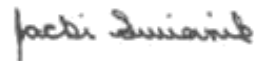
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Nicolas Manders  
Engineer  
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Jacki Swiernik  
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**SAMPLE INFORMATION**

**REPORT NO. 105014535LAX-011**

**ITEMS RECEIVED**

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

**SAMPLE PHOTOS - TESTED CONFIGURATIONS**



## SUMMARY

REPORT NO. 105014535LAX-011

### PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	RDP-6-LED35-SO-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)	674.8
Input Power (W) @ 120 (Vac)	10.16
Lumen Efficacy (lm/W)	66.4
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**

**REPORT NO. 105014535LAX-011**

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

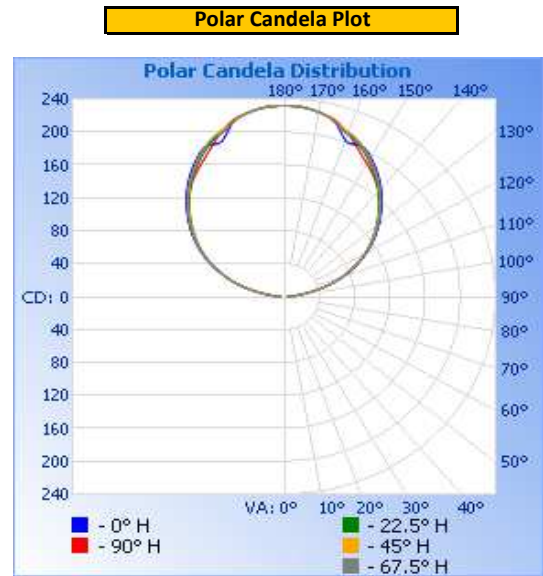
**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)**

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.95	88.6	10.16	0.955	9.0

Light Output (lm)	Lumen Efficacy (lm/W)
674.8	66.4

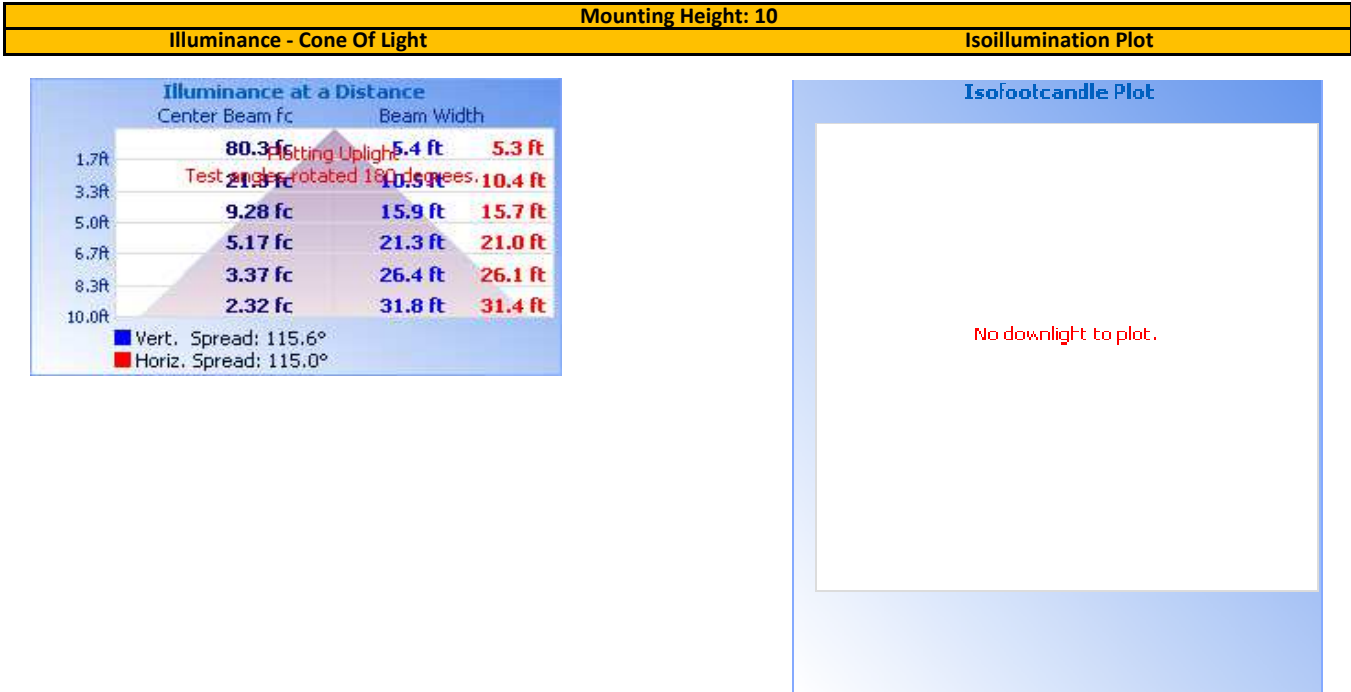
**INTENSITY SUMMARY - CANDELA**

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	13	13	13	13	13
100	28	28	28	29	29
105	50	49	49	50	50
110	71	69	69	70	70
115	91	88	89	89	90
120	109	106	107	107	108
125	125	122	123	124	125
130	141	137	138	140	140
135	156	152	154	155	154
140	171	166	168	169	167
145	184	179	182	182	178
150	196	192	194	194	187
155	203	202	205	205	198
160	203	211	213	211	211
165	220	221	220	220	222
170	228	228	228	228	227
175	231	231	231	231	231
180	232	232	232	232	232



REPORT NO. 105014535LAX-011

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	0.0	0.0%	90-100	14.9	2.2%
0-40	0.0	0.0%	100-110	51.8	7.7%
0-60	0.0	0.0%	110-120	87.8	13.0%
60-90	0.0	0.0%	120-130	110.3	16.3%
70-100	14.9	2.2%	130-140	118.9	17.6%
90-120	154.5	22.9%	140-150	113.4	16.8%
0-90	0.0	0.0%	150-160	93.6	13.9%
90-180	674.8	100.0%	160-170	62.1	9.2%
0-180	674.8	100.0%	170-180	22.0	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/m<sup>2</sup>)

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-011**

#	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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