

# PRUDENTIAL

# LIGHTING

## TEST REPORT

### SCOPE OF WORK

LED Performance Testing

### MODEL NUMBER

RDP-6-LED35-HO-NU-UNV-ND

### PROJECT NUMBER

G105014535

### REPORT NUMBER

105014535LAX-004

### 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-004

**MODEL NUMBER(s)**

RDP-6-LED35-HO-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**

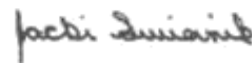
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Nicolas Manders  
Engineer  
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Jacki Swiernik  
Staff Engineer  
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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-HO-NU-UNV-ND	LED Luminaire	Production	3/10/2022
2	LAN2203101129-003D	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-HO-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-HO-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)	848.9
Input Power (W) @ 120 (Vac)	14.04
Lumen Efficacy (lm/W)	60.5
Input Power Factor (I) @ 120 (Vac)	0.956

## 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-HO-NU-UNV-ND	NA

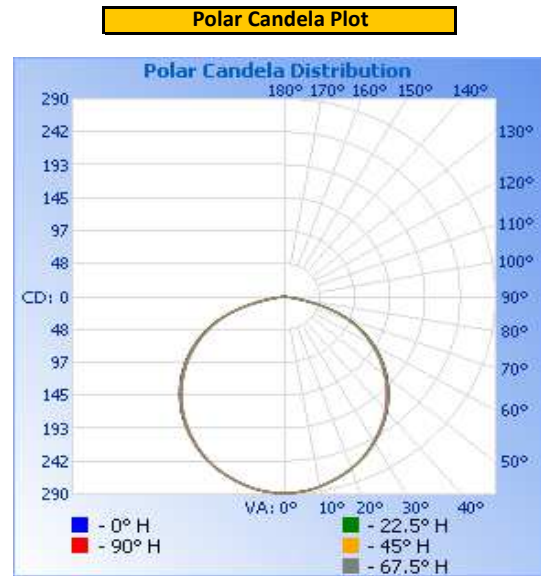
**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)**

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.21	122.2	14.04	0.956	12.2

Light Output (lm)	Lumen Efficacy (lm/W)
848.9	60.5

**INTENSITY SUMMARY - CANDELA**

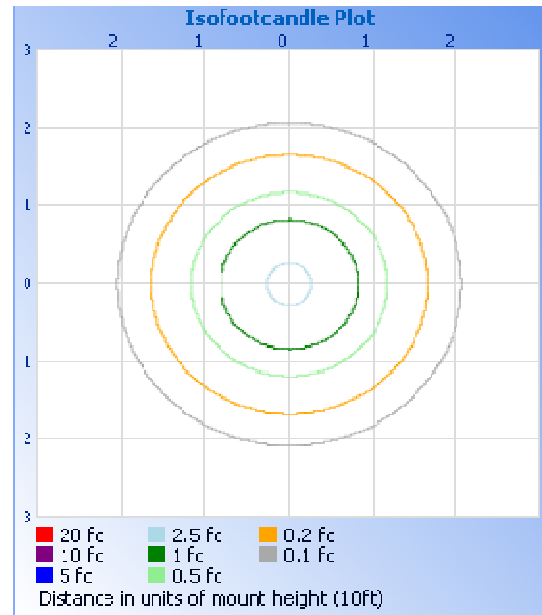
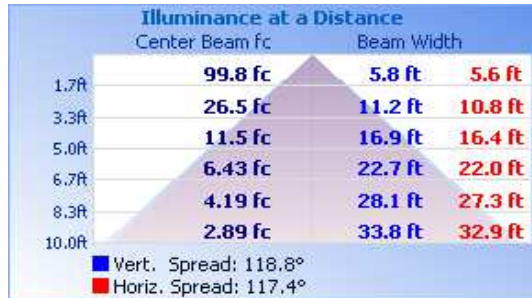
Angle	0	22.5	45	67.5	90
0	288	288	288	288	288
5	287	287	287	287	287
10	283	283	283	283	283
15	277	277	277	276	276
20	269	269	269	268	268
25	259	259	259	258	258
30	247	247	247	246	246
35	234	234	233	232	232
40	219	219	218	217	217
45	202	202	201	200	199
50	184	183	182	181	180
55	164	163	162	160	160
60	142	141	140	139	138
65	118	118	116	115	115
70	91	91	89	88	89
75	56	56	56	55	55
80	21	20	20	21	20
85	3	3	3	3	3
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	224.6	26.5%
0-40	370.4	43.6%
0-60	669.8	78.9%
60-90	179.1	21.1%
70-100	64.5	7.6%
90-120	0.0	0.0%
0-90	848.9	100.0%
90-180	0.0	0.0%
0-180	848.9	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	27.3	3.2%	90-100	0.0	0.0%
10-20	78.1	9.2%	100-110	0.0	0.0%
20-30	119.3	14.0%	110-120	0.0	0.0%
30-40	145.8	17.2%	120-130	0.0	0.0%
40-50	154.8	18.2%	130-140	0.0	0.0%
50-60	144.6	17.0%	140-150	0.0	0.0%
60-70	114.6	13.5%	150-160	0.0	0.0%
70-80	58.2	6.9%	160-170	0.0	0.0%
80-90	6.4	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/m<sup>2</sup>)

Angle	0	45	90
45	39926	39669	39372
55	39888	39376	39060
65	39056	38295	38031
75	30132	30132	29916
85	5452	5131	5131

**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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