

# PRUDENTIAL LIGHTING TEST REPORT

## SCOPE OF WORK

LED Performance Testing

## MODEL NUMBER

BPRO-1R-LED35-90-WDE

## PROJECT NUMBER

G104819833

## REPORT NUMBER

104819833LAX-003

## ISSUE DATE

September 20, 2021

## REVISED DATE

None

## TEST DATES

September 20, 2021 through September 20, 2021.

## DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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**REPORT NUMBER**

104819833LAX-003

**MODEL NUMBER(s)**

BPRO-1R-LED35-90-WDE

**REPORT RENDERED TO:**

PRUDENTIAL LIGHTING  
1774 EAST 21ST  
LOS ANGELES, CA 90058

**STATEMENT OF LIMITATION**

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-01120100-3.

**TEST STANDARDS**

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

In Charge of Testing:



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Technician III  
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Reviewer:



Vladimir Kozak  
Engineering Supervisor  
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# SAMPLE INFORMATION

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## ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2109131331-002 (Array #3)	BPRO-1R-LED35-90-WDE	downlight	Prototype	09/13/21

## TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO-1R-LED35-90-WDE	1

## SAMPLE PHOTOS - TESTED CONFIGURATIONS



## SUMMARY

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### PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO-1R-LED35-90-WDE
Product Description:	downlight
LED Model No.:	Cree XHP35B
Driver Model No.:	Osram Oti 30W G2
Light Source:	LED

Criteria	Results
Light Output (lumens)	348.8
Input Power (W) @ 120 (Vac)	9.03
Lumen Efficacy (lm/W)	38.6
Input Power Factor ( ) @ 120 (Vac)	0.979

## 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	BPRO-1R-LED35-90-WDE	NA

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

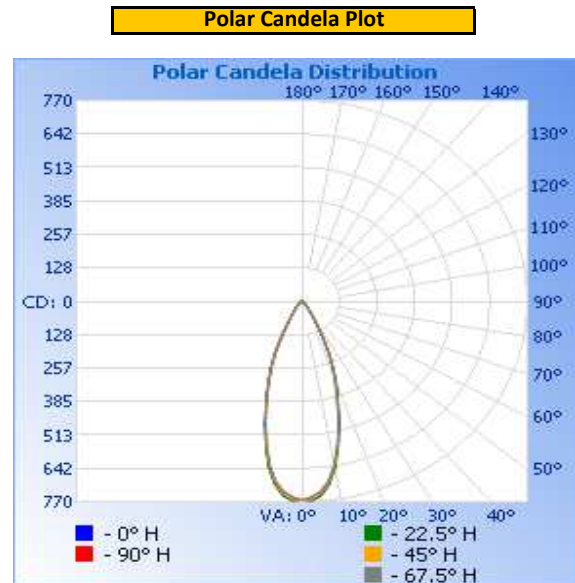
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.02	76.9	9.03	0.979	8.5

Light Output (lm)	Lumen Efficacy (lm/W)
348.8	38.6

**INTENSITY SUMMARY - CANDELA**

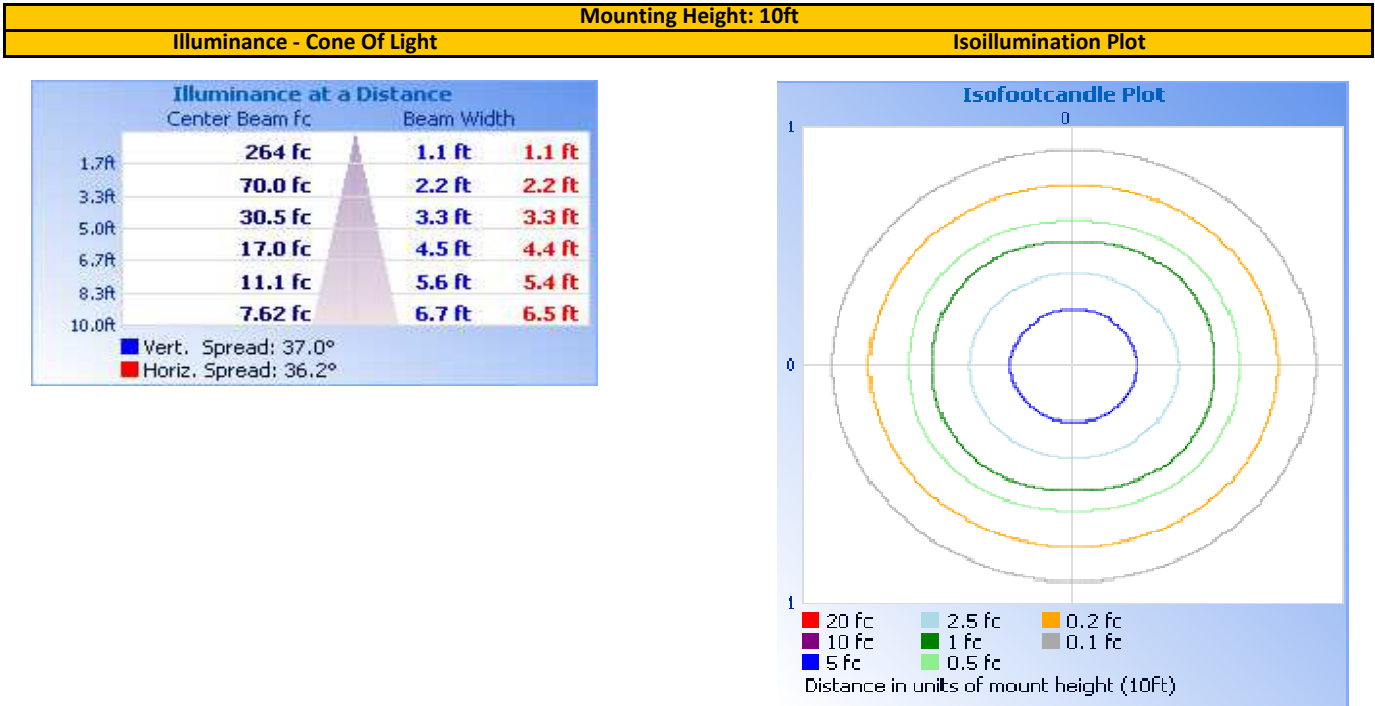
Angle	0	22.5	45	67.5	90
0	762	762	762	762	762
5	747	749	741	735	731
10	644	650	639	636	638
15	488	486	479	480	482
20	341	339	333	333	335
25	215	220	219	214	209
30	95	103	110	102	95
35	51	51	51	49	50
40	31	29	29	28	29
45	19	19	18	18	17
50	9	10	10	10	8
55	2	2	4	2	2
60	1	1	1	1	1
65	0	1	1	1	0
70	0	0	0	0	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	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

Entire luminous intensity matrix found in .IES file



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary							
<div>Zone</div>	<div>Lumens</div>	<div>Luminaire</div>	<div>Zone</div>	<div>Lumens</div>	<div>Total</div>	<div>Zone</div>	
	0-30	296.7		85.1%	0-10	67.4	19.3%
	0-40	330.8		94.8%	10-20	132.7	38.0%
	0-60	348.2		99.8%	20-30	96.6	27.7%
	60-90	0.6		0.2%	30-40	34.1	9.8%
	70-100	0.0		0.0%	40-50	14.0	4.0%
	90-120	0.0		0.0%	50-60	3.4	1.0%
	0-90	348.8		100.0%	60-70	0.6	0.2%
	90-180	0.0		0.0%	70-80	0.0	0.0%
	0-180	348.8		100.0%	80-90	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.64

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m<sup>2</sup>)

Angle	0	45	90
45	14422	13497	13188
55	1997	4279	1807
65	645	774	645
75	0	0	0
85	0	0	0

**EQUIPMENT LIST**

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	VBU	VBU
2	AC Source	CW1251P	000944	VBU	VBU
3	Power Analyzer	WT210	000945	09/29/20	09/29/21
4	Tape Measure	33-428	002225	08/23/21	08/23/22
5	Temp. & RH Meter	Fluke 1620A	002195	12/17/20	12/27/21
6	Thermometer	DPI8-C24	001782	10/09/20	10/09/21
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**REVISION HISTORY**

#	Revision Date	Updated By	Reviewed BY	Description of Change
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