

# PRUDENTIAL LIGHTING TEST REPORT

## SCOPE OF WORK

LED Performance Testing

## MODEL NUMBER

BPRO-1R-LED35-90-NRW

## PROJECT NUMBER

G104819833

## REPORT NUMBER

104819833LAX-001

## 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

© 2017 INTERTEK



**REPORT NUMBER**

104819833LAX-001

**MODEL NUMBER(s)**

BPRO-1R-LED35-90-NRW

**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.

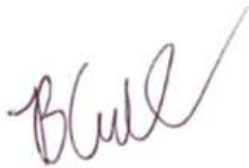
**AUTHORIZATION**

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:



Bryan Cubillo  
Technician III  
Lighting Division

Reviewer:



Vladimir Kozak  
Engineering Supervisor  
Lighting Division

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

**SAMPLE INFORMATION**

**REPORT NO. 104819833LAX-001**

ITEMS RECEIVED

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

TESTED SAMPLE CONFIGURATIONS

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

SAMPLE PHOTOS - TESTED CONFIGURATIONS



**SUMMARY**

**REPORT NO. 104819833LAX-001**

**PRODUCT INFORMATION AND SUMMARY OF DATA**

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

Criteria	Results
Light Output (lumens)	444.8
Input Power (W) @ 120 (Vac)	9.00
Lumen Efficacy (lm/W)	49.4
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**

**REPORT NO. 104819833LAX-001**

Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO-1R-LED35-90-NRW	NA

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

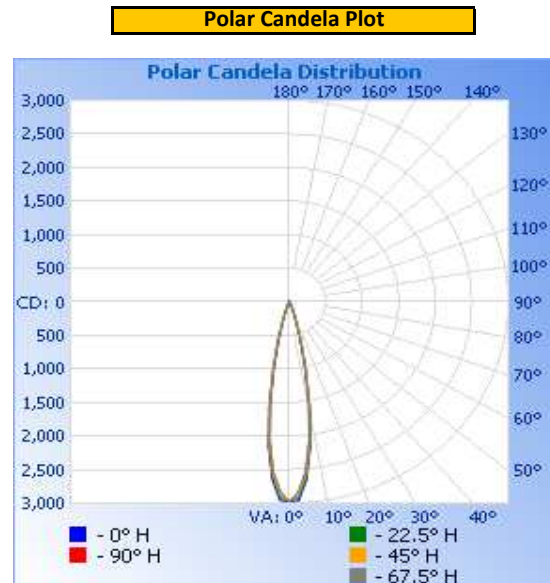
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.00	76.6	9.00	0.979	8.5

Light Output (lm)	Lumen Efficacy (lm/W)
444.8	49.4

**INTENSITY SUMMARY - CANDELA**

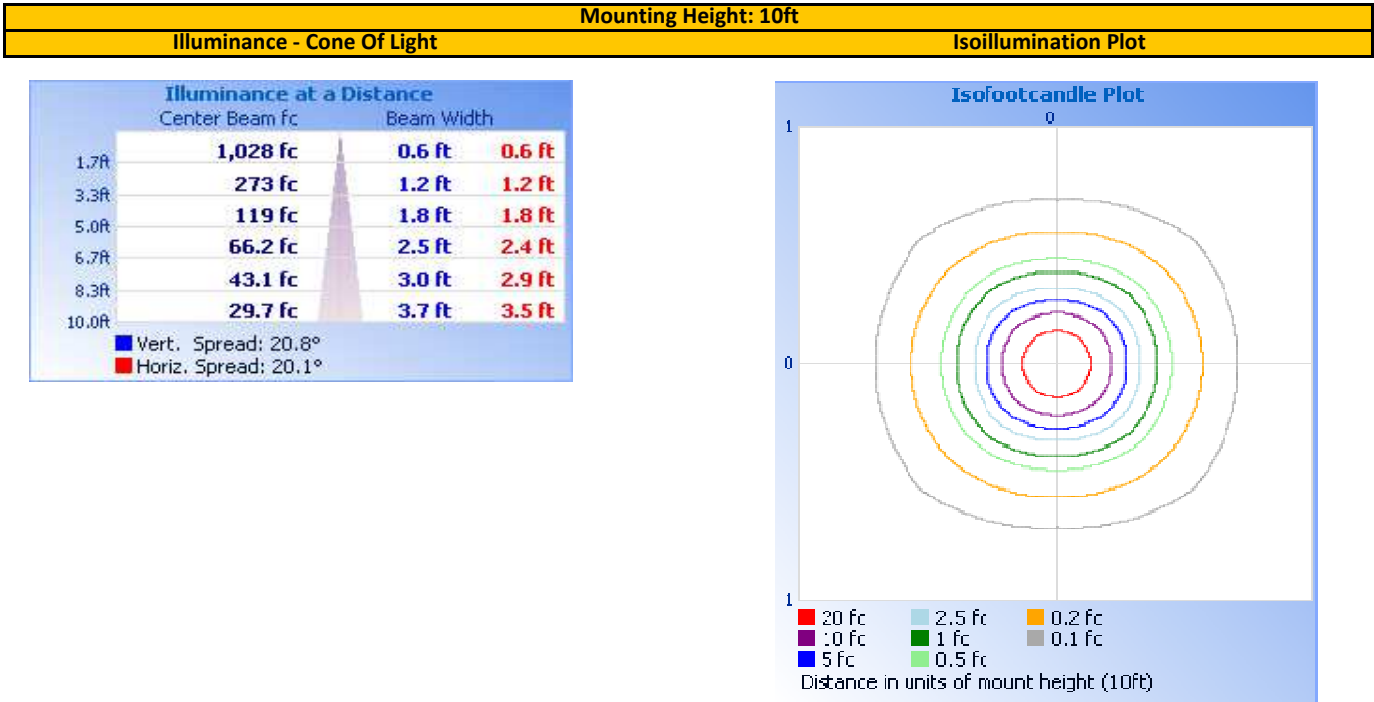
Angle	0	22.5	45	67.5	90
0	2972	2972	2972	2972	2972
5	2663	2631	2584	2552	2544
10	1577	1592	1582	1531	1495
15	575	616	649	597	560
20	164	180	197	177	163
25	52	57	63	56	53
30	28	29	31	29	28
35	17	20	22	20	18
40	12	12	15	13	13
45	9	9	9	9	9
50	5	6	6	6	4
55	1	1	3	1	1
60	1	1	1	1	1
65	0	0	0	0	0
70	0	0	0	0	0
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	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



REPORT NO. 104819833LAX-001

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
---------------------	--	--	--	--	--

Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	423.0	95.1%	90-100	0.0	0.0%
0-40	435.5	97.9%	100-110	0.0	0.0%
0-60	444.5	99.9%	110-120	0.0	0.0%
60-90	0.3	0.1%	120-130	0.0	0.0%
70-100	0.0	0.0%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	444.8	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	444.8	100.0%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.36

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

Angle	0	45	90
45	6864	7173	7095
55	951	2662	951
65	387	387	387
75	0	0	0
85	0	0	0

**EQUIPMENT LIST**

**REPORT NO. 104819833LAX-001**

#	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
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

**REVISION HISTORY**

#	Revision Date	Updated By	Reviewed BY	Description of Change
---	None	---	---	---
---	---	---	---	---
---	---	---	---	---