

PRUDENTIAL

LIGHTING

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO4-2R-LED35-90-NRW

PROJECT NUMBER

G104933496

REPORT NUMBER

104933496LAX-003

ISSUE DATE

December 28, 2021

REVISED DATE

None

TEST DATES

December 28, 2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104933496LAX-003

MODEL NUMBER(s)

BPRO4-2R-LED35-90-NRW

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

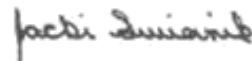
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



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SAMPLE INFORMATION

REPORT NO. 104933496LAX-003

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2112271338-002	BPRO4-2R-LED35-90-NRW	BPRO 2R Downlight Narrow	Prototype	12/27/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO4-2R-LED35-90-NRW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 104933496LAX-003

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO4-2R-LED35-90-NRW
Product Description:	BPRO 2R Downlight Narrow
LED Model No.:	Cree XHP35B
Driver Model No.:	Osram OTI30G2 - 210mAmp
Light Source:	LED

Criteria	Results
Light Output (lumens)	507.9
Input Power (W) @ 120 (Vac)	8.73
Lumen Efficacy (lm/W)	58.2
Input Power Factor () @ 120 (Vac)	0.933

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. 104933496LAX-003

Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO4-2R-LED35-90-NRW	NA

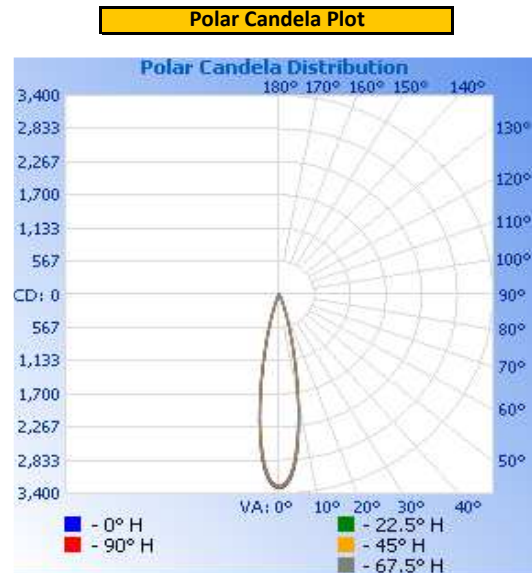
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.94	77.9	8.73	0.933	13.4

Light Output (lm)	Lumen Efficacy (lm/W)
507.9	58.2

INTENSITY SUMMARY - CANDELA

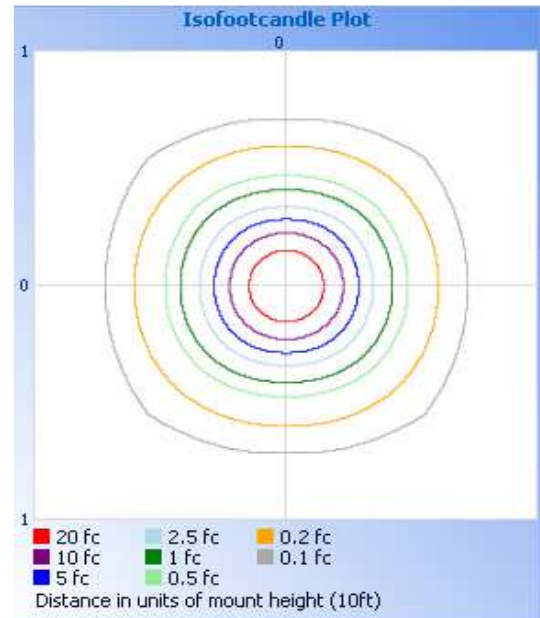
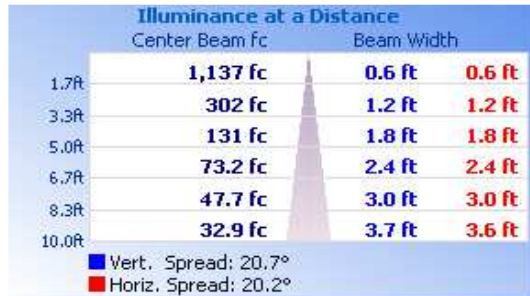
Angle	0	22.5	45	67.5	90
0	3287	3287	3287	3287	3287
5	2905	2879	2862	2842	2826
10	1735	1728	1726	1697	1675
15	684	712	736	714	692
20	218	237	260	250	239
25	70	77	88	83	80
30	35	37	39	38	36
35	19	22	25	22	20
40	13	13	16	13	13
45	9	9	10	9	9
50	4	6	6	6	5
55	1	1	3	1	1
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	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	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



REPORT NO. 104933496LAX-003

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	484.3	95.4%
0-40	498.6	98.2%
0-60	507.6	99.9%
60-90	0.3	0.1%
70-100	0.0	0.0%
90-120	0.0	0.0%
0-90	507.9	100.0%
90-180	0.0	0.0%
0-180	507.9	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	234.8	46.2%	90-100	0.0	0.0%
10-20	205.7	40.5%	100-110	0.0	0.0%
20-30	43.8	8.6%	110-120	0.0	0.0%
30-40	14.3	2.8%	120-130	0.0	0.0%
40-50	7.3	1.4%	130-140	0.0	0.0%
50-60	1.7	0.3%	140-150	0.0	0.0%
60-70	0.3	0.1%	150-160	0.0	0.0%
70-80	0.0	0.0%	160-170	0.0	0.0%
80-90	0.0	0.0%	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/m²)

Angle	0	45	90
45	3206	3497	3242
55	359	1212	404
65	122	183	183
75	0	0	0
85	0	0	0

EQUIPMENT LIST

REPORT NO. 104933496LAX-003

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	11/19/21	01/31/22
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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