

# PRUDENTIAL

# TEST REPORT

## SCOPE OF WORK

LED Performance Testing

## MODEL NUMBER

BPRO5-PER-REG.5-LED35-SO-4-WWG

## PROJECT NUMBER

G104848644

## REPORT NUMBER

104848644LAX-009

## ISSUE DATE

October 19, 2021

## REVISED DATE

None

## TEST DATES

October 19, 2021

## DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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**REPORT NUMBER**

104848644LAX-009

**MODEL NUMBER(s)**

BPRO5-PER-REG.5-LED35-SO-4-WWG

**REPORT RENDERED TO:**

PRUDENTIAL  
1774 EAST 21ST STREET  
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-01205890.

**TEST STANDARDS**

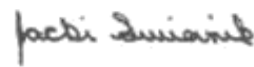
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Nicolas Manders  
Engineer  
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Jacki Swiernik  
Staff Engineer  
Lighting Division

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**SAMPLE INFORMATION**

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**ITEMS RECEIVED**

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2110151314-002	BPRO5-PER-REG.5-LED35-SO-4-WWG	Focal Glow Wall Wash LED Fixture	Production	10/15/2021
2	LAN2110151314-002-A	Reg 0.5	Frame	Production	10/15/2021
3	LAN2110151314-002-E	WWG	Lens	Production	10/15/2021

**TESTED SAMPLE CONFIGURATIONS**

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO5-PER-REG.5-LED35-SO-4-WWG	1,2,3

**SAMPLE PHOTOS - TESTED CONFIGURATIONS**



## SUMMARY

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### PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-PER-REG.5-LED35-SO-4-WWG
Product Description:	Focal Glow Wall Wash LED Fixture
LED Model No.:	Lumileds 2835e 9V 3500K 80 CRI
Driver Model No.:	Osram OTI 50W G2 (832mA)
Light Source:	LED

Criteria	Results
Light Output (lumens)	3917.4
Input Power (W) @ 120 (Vac)	31.18
Lumen Efficacy (lm/W)	125.6
Input Power Factor (PF) @ 120 (Vac)	0.977

## 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	BPRO5-PER-REG.5-LED35-SO-4-WWG	NA

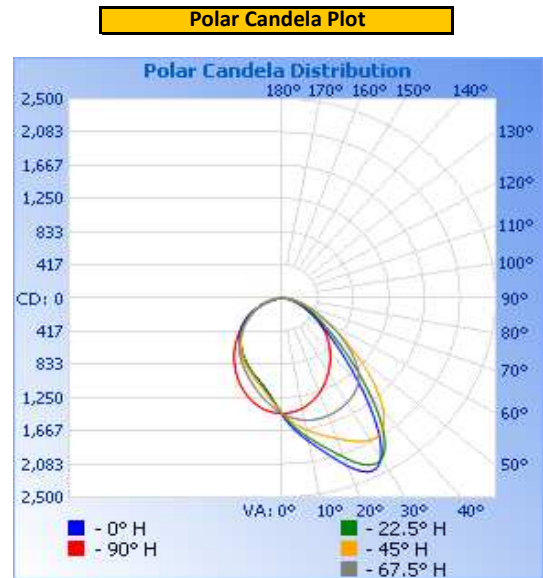
**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)**

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.89	266.1	31.18	0.977	10.1

Light Output (lm)	Lumen Efficacy (lm/W)
3917.4	125.6

**INTENSITY SUMMARY - CANDELA**

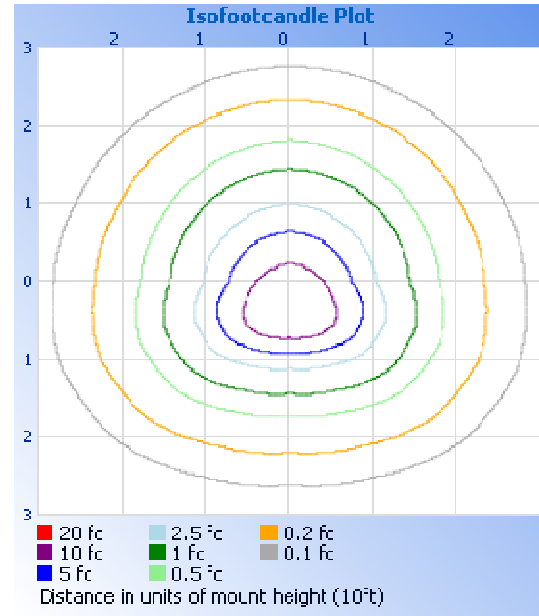
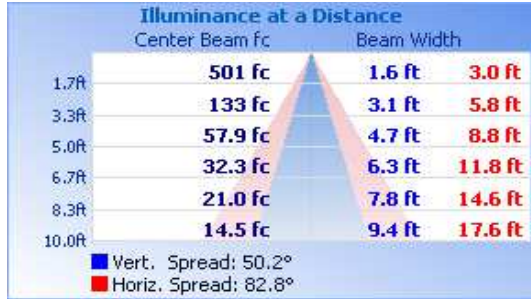
	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
W A L L  S I D E	85	32	35	38	53	61
	80	74	86	112	134	132
	75	130	152	201	222	203
	70	200	232	310	325	274
	65	285	330	446	454	351
	60	390	452	624	623	438
	55	527	617	866	832	539
	50	717	852	1171	1056	650
	45	995	1184	1524	1252	763
	40	1406	1626	1842	1386	873
	35	1913	2070	2030	1465	979
	30	2313	2326	2058	1515	1081
	25	2402	2307	1980	1550	1178
	20	2242	2130	1875	1569	1267
	15	2019	1938	1778	1572	1343
	10	1830	1777	1682	1554	1399
	5	1659	1622	1572	1513	1434
R O O M  S I D E	0	1448	1448	1448	1448	1448
	5	1285	1278	1306	1366	1434
	10	1150	1151	1188	1275	1399
	15	1068	1067	1096	1182	1343
	20	1008	1003	1024	1095	1267
	25	946	942	962	1016	1178
	30	885	879	898	941	1081
	35	826	816	829	865	979
	40	770	753	755	786	873
	45	708	686	676	698	763
	50	639	614	594	602	650
	55	560	534	510	505	539
	60	475	448	423	411	438
	65	377	354	337	327	351
	70	264	254	251	252	274
	75	156	152	168	181	203
	80	78	74	90	112	132
	85	31	28	30	42	61
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270



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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	1,214.3	31.0%
0-40	2,023.6	51.7%
0-60	3,315.1	84.6%
60-90	602.3	15.4%
70-100	237.8	6.1%
90-120	0.0	0.0%
0-90	3,917.4	100.0%
90-180	0.0	0.0%
0-180	3,917.4	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	137.8	3.5%	90-100	0.0	0.0%
10-20	408.7	10.4%	100-110	0.0	0.0%
20-30	667.9	17.0%	110-120	0.0	0.0%
30-40	809.2	20.7%	120-130	0.0	0.0%
40-50	736.1	18.8%	130-140	0.0	0.0%
50-60	555.4	14.2%	140-150	0.0	0.0%
60-70	364.5	9.3%	150-160	0.0	0.0%
70-80	189.5	4.8%	160-170	0.0	0.0%
80-90	48.3	1.2%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.46

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

Angle	0	45	90
45	9365	14344	7181
55	6115	10048	6254
65	4488	7023	5527
75	3343	5168	5220
85	2443	2902	4658

**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	09/21/21	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	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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