

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO5-REC-REG1-LED35-SO-4-BTW

PROJECT NUMBER

G104838831

REPORT NUMBER

104838831LAX-031

ISSUE DATE

October 4, 2021

REVISED DATE

October 7, 2021

TEST DATES

10/4/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104838831LAX-031

MODEL NUMBER(s)

BPRO5-REC-REG1-LED35-SO-4-BTW

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:



Nicolas Manders
Engineer
Lighting Division

Reviewer:



Vladimir Kozak
Engineering Supervisor
Lighting Division

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SAMPLE INFORMATION

REPORT NO. 104838831LAX-031

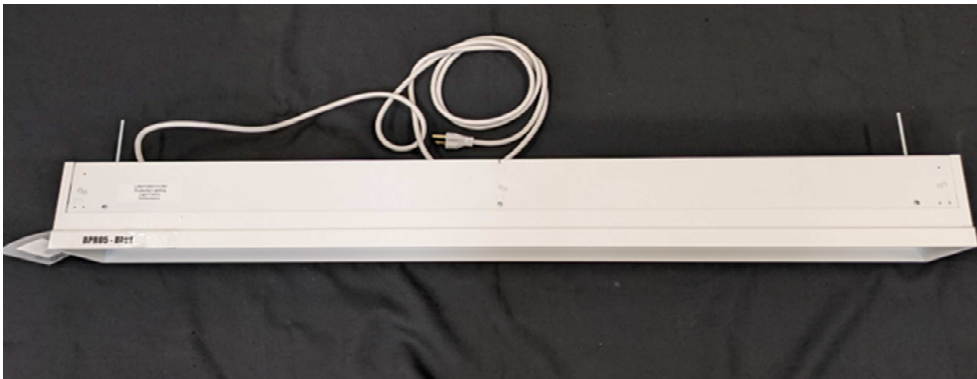
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2110041111-002	BRO5 SERIES	LED Fixture	Production	10/04/21
2	LAN2110041111-002-A	REG1	Regress Frame	Production	10/04/21
3	LAN2110041111-002-B	BTW	Lens	Production	10/04/21

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO5-REC-REG1-LED35-SO-4-BTW	1-3

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 104838831LAX-031

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-REC-REG1-LED35-SO-4-BTW
Product Description:	Batwing 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)	3738.3
Input Power (W) @ 120 (Vac)	31.16
Lumen Efficacy (lm/W)	120.0
Input Power Factor (I) @ 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

REPORT NO. 104838831LAX-031

Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO5-REC-REG1-LED35-SO-4-BTW	NA

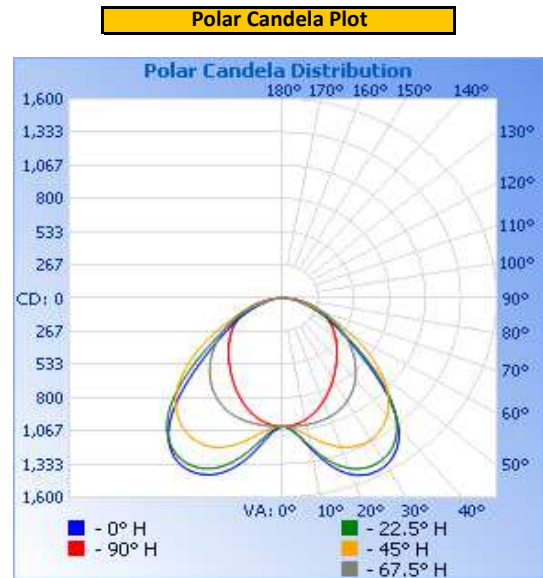
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.00	265.7	31.16	0.977	10.0

Light Output (lm)	Lumen Efficacy (lm/W)
3738.3	120.0

INTENSITY SUMMARY - CANDELA

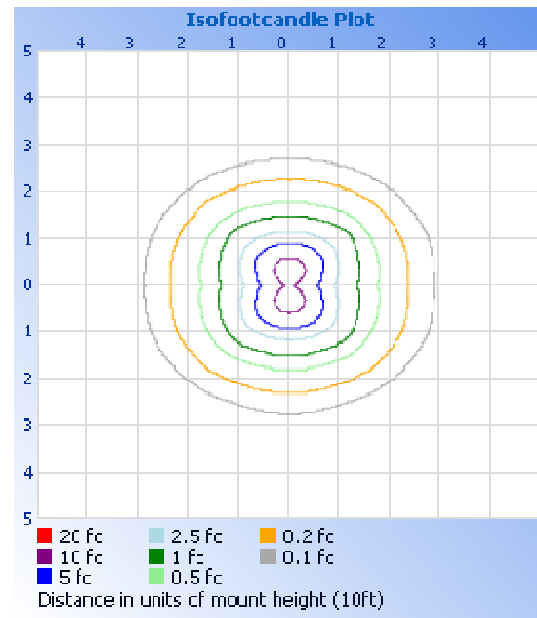
Angle	0	22.5	45	67.5	90
0	1032	1032	1032	1032	1032
5	1086	1086	1055	1033	1020
10	1232	1214	1122	1032	990
15	1393	1355	1205	1028	943
20	1507	1453	1272	1016	884
25	1556	1499	1310	995	819
30	1548	1496	1314	960	753
35	1484	1444	1284	909	688
40	1345	1329	1219	845	629
45	1113	1138	1117	769	573
50	840	891	976	686	520
55	616	655	798	598	468
60	462	479	606	506	415
65	347	351	433	413	358
70	248	247	295	320	296
75	162	158	186	225	228
80	107	99	100	131	155
85	56	49	52	51	74
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. 104838831LAX-031

ILLUMINANCE SUMMARY

Illuminance - Cone Of Light		Mounting Height: 10	Isoillumination Plot	
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ZONAL LUMENS

Zonal Lumen Summary					
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Zone	Lumens	Luminaire
0-30	1,015.2	27.2%
0-40	1,751.9	46.9%
0-60	3,082.1	82.4%
60-90	656.1	17.6%
70-100	267.6	7.2%
90-120	0.0	0.0%
0-90	3,738.3	100.0%
90-180	0.0	0.0%
0-180	3,738.3	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	103.0	2.8%	90-100	0.0	0.0%
10-20	337.4	9.0%	100-110	0.0	0.0%
20-30	574.9	15.4%	110-120	0.0	0.0%
30-40	736.7	19.7%	120-130	0.0	0.0%
40-50	744.3	19.9%	130-140	0.0	0.0%
50-60	586.0	15.7%	140-150	0.0	0.0%
60-70	388.5	10.4%	150-160	0.0	0.0%
70-80	206.0	5.5%	160-170	0.0	0.0%
80-90	61.6	1.6%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.82
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.70

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)



Angle	0	45	90
45	10483	10520	5397
55	7152	9266	5434
65	5468	6824	5642
75	4169	4786	5867
85	4279	3974	5655

EQUIPMENT LIST

REPORT NO. 104838831LAX-031

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	VBV	VBV
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	Digital Level	1435-1000D	002231	VBV	VBV
7	Temp. & RH Meter	Fluke 1620A	002195	12/17/20	12/27/21
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REVISION HISTORY

#	Revision Date	Updated By	Reviewed BY	Description of Change
---	10/7/2021	 Nicolas Manders	 Vladimir Kozak	Corrected fixture model number
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