PRUDENTIAL

TEST REPORT

SCOPE OF WORK
LED Performance Testing

MODEL NUMBER
BPRO5-REC-REG.5-LED35-SO-4-BTW

PROJECT NUMBER
G104848644

REPORT NUMBER
104848644LAX-007

ISSUE DATE
October 19, 2021

REVISED DATE
None

TEST DATES
October 19, 2021

DOCUMENT CONTROL NUMBER
RTTDS-R-AMER-Test-3407

PAGES
7

REPORT NUMBER
104848644LAX-007

MODEL NUMBER(s)
BPRO5-REC-REG.5-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:

Jacki Swiernik
Staff Engineer
Lighting Division

25800 Commercentre Drive
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SAMPLE INFORMATION

REPORT NO. 104848644LAX-007

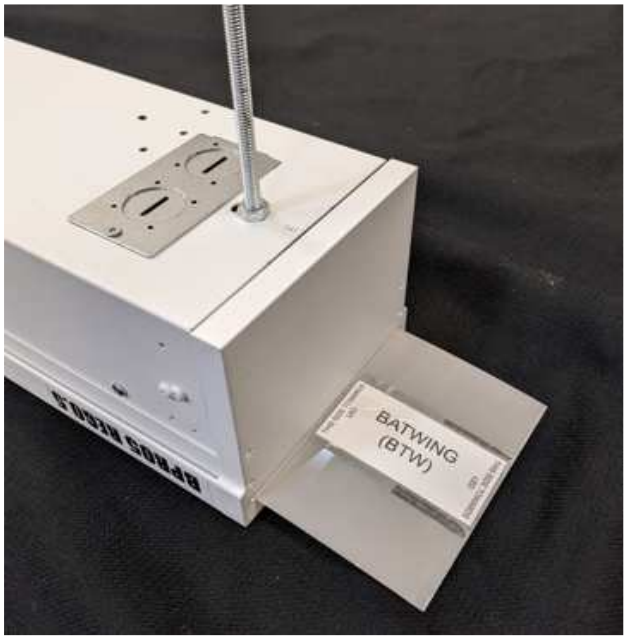
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2110151314-002	BPRO5-REC-REG.5-LED35-SO-4-BTW	Batwing LED Fixture	Production	10/15/2021
2	LAN2110151314-002-A	Reg 0.5	Frame	Production	10/15/2021
3	LAN2110151314-002-C	BTW	Lens	Production	10/15/2021

TESTED SAMPLE CONFIGURATIONS

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

SAMPLE PHOTOS - TESTED CONFIGURATIONS



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SUMMARY **REPORT NO. 104848644LAX-007**

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-REC-REG.5-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)	3884.9
Input Power (W) @ 120 (Vac)	31.19
Lumen Efficacy (lm/W)	124.6
Input Power Factor () @ 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.

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TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO5-REC-REG.5-LED35-SO-4-BTW	NA

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

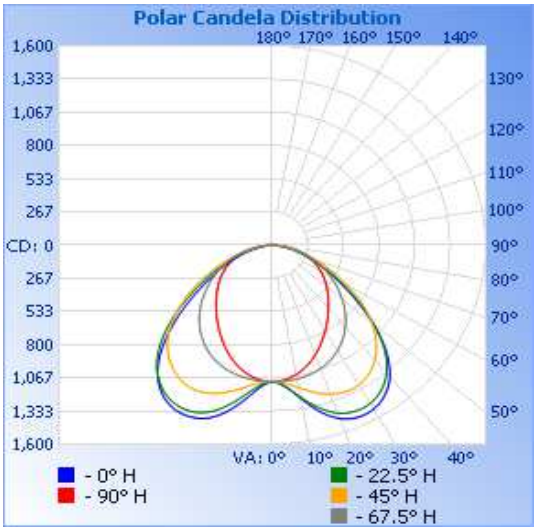
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()	Input ATHD(%)
Up	119.97	266.1	31.19	0.977	10.0

Light Output (lm)	Lumen Efficacy (lm/W)
3884.9	124.6

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	1096	1096	1096	1096	1096
5	1142	1143	1114	1096	1085
10	1253	1242	1165	1090	1053
15	1385	1352	1224	1077	1002
20	1483	1434	1273	1055	939
25	1525	1472	1299	1023	868
30	1520	1468	1296	978	794
35	1471	1424	1262	921	723
40	1372	1334	1198	852	656
45	1209	1191	1103	774	593
50	992	999	978	687	535
55	769	787	824	597	479
60	571	590	656	505	422
65	420	429	494	415	362
70	296	299	351	326	299
75	193	191	227	237	230
80	105	100	121	147	155
85	44	39	42	57	76
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

Polar Candela Plot



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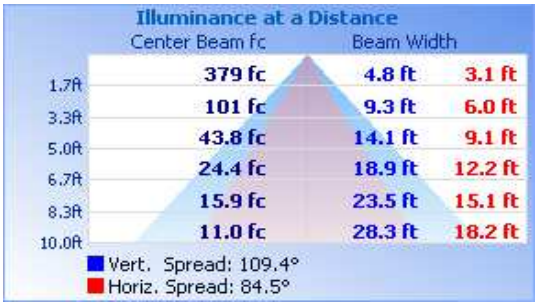
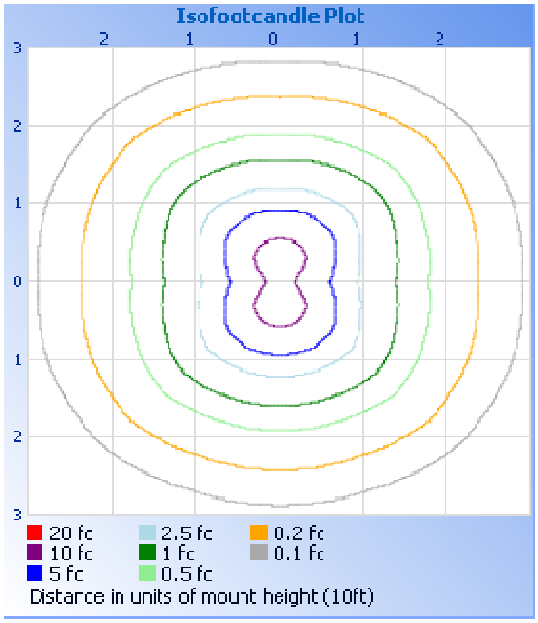
ILLUMINANCE SUMMARY

Mounting Height: 10	
Illuminance - Cone Of Light	**Isoillumination Plot**





ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	1,025.2	26.4%
0-40	1,758.2	45.3%
0-60	3,156.3	81.2%
60-90	728.7	18.8%
70-100	294.8	7.6%
90-120	0.0	0.0%
0-90	3,884.9	100.0%
90-180	0.0	0.0%
0-180	3,884.9	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	108.0	2.8%	90-100	0.0	0.0%
10-20	343.2	8.8%	100-110	0.0	0.0%
20-30	574.0	14.8%	110-120	0.0	0.0%
30-40	733.0	18.9%	120-130	0.0	0.0%
40-50	762.3	19.6%	130-140	0.0	0.0%
50-60	635.8	16.4%	140-150	0.0	0.0%
60-70	433.9	11.2%	150-160	0.0	0.0%
70-80	233.4	6.0%	160-170	0.0	0.0%
80-90	61.3	1.6%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.80
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.66

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	11379	10381	5581
55	8923	9561	5558
65	6614	7779	5701
75	4963	5837	5914
85	3360	3207	5803

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EQUIPMENT LIST

REPORT NO. 104848644LAX-007

#	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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