

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO2-PER-REG.5-LED35-SO-4-WWG

PROJECT NUMBER

G104824537

REPORT NUMBER

104824537LAX-003

ISSUE DATE

September 24, 2021

REVISED DATE

None

TEST DATES

9/24/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104824537LAX-003

MODEL NUMBER(s)

BPRO2-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:



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Reviewer:



Vladimir Kozak
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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2109231103-001	BRO2 SERIES	LED Fixture	Production	09/21/21
2	LAN2109231103-001-A	REG0.5	Regress Frame	Production	09/21/21
3	LAN2109231103-001-3	WWG	Lens	Production	09/21/21

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO2-PER-REG.5-LED35-SO-4-WWG	1-3

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO2-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)	3029.1
Input Power (W) @ 120 (Vac)	31.08
Lumen Efficacy (lm/W)	97.5
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

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO2-PER-REG.5-LED35-SO-4-WWG	NA

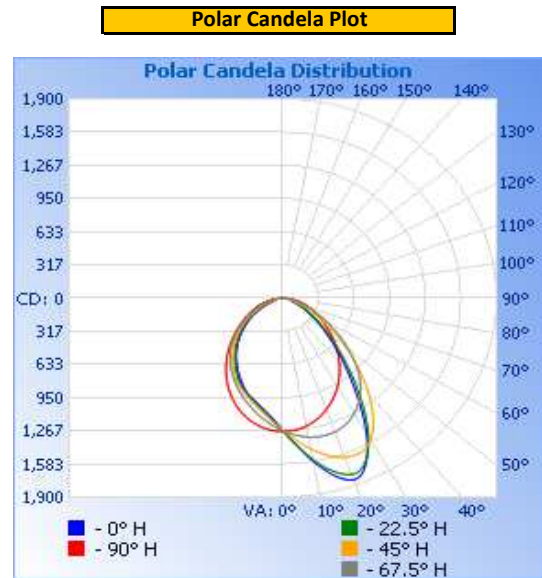
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.01	264.5	31.08	0.979	9.3

Light Output (lm)	Lumen Efficacy (lm/W)
3029.1	97.5

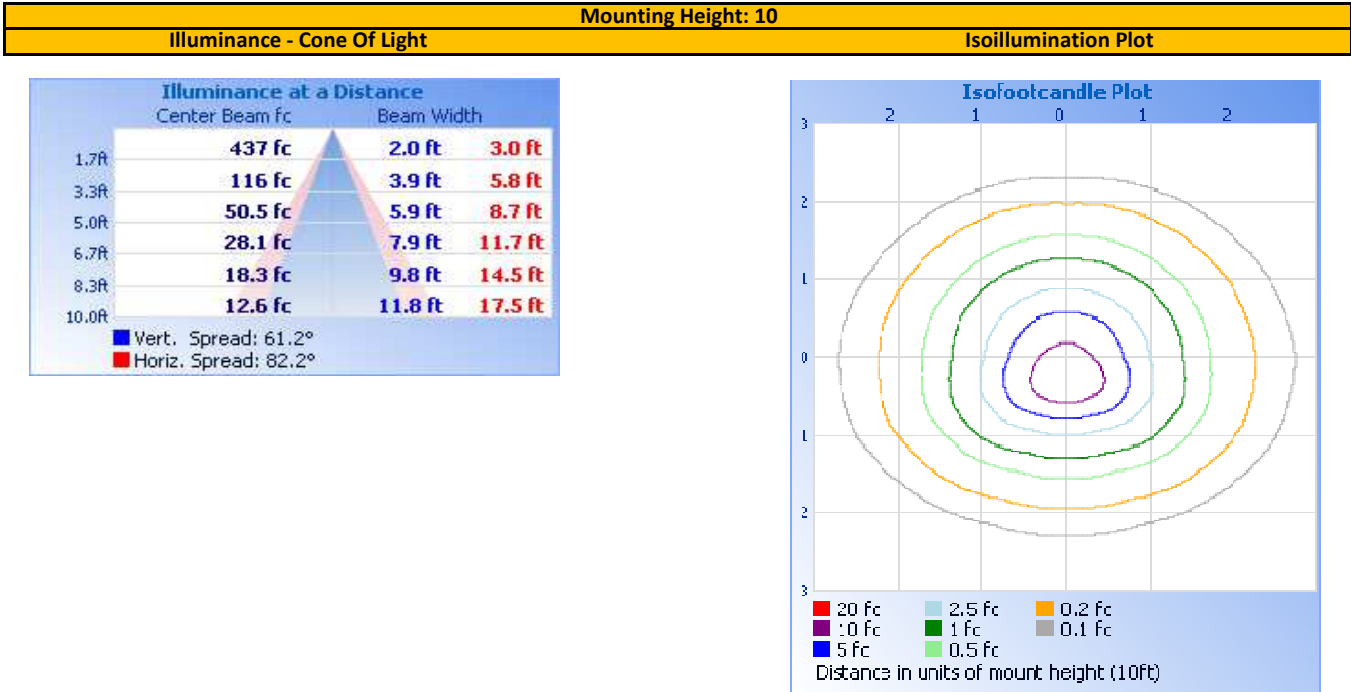
INTENSITY SUMMARY - CANDELA

W A L L S I D E	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
	85	29	26	26	24	53
	80	54	50	47	72	117
	75	70	67	87	145	181
	70	110	114	164	231	245
	65	171	182	261	331	314
	60	250	268	387	455	390
	55	354	381	544	603	476
	50	487	527	735	768	573
	45	661	714	955	933	676
	40	884	953	1187	1074	780
	35	1165	1236	1400	1185	879
	30	1488	1521	1559	1270	973
	25	1744	1728	1627	1326	1057
	20	1844	1788	1613	1356	1131
R O O M S I D E	15	1749	1706	1553	1361	1191
	10	1583	1565	1463	1346	1236
	5	1409	1410	1360	1311	1263
	0	1263	1263	1263	1263	1263
	5	1142	1158	1169	1208	1263
	10	1064	1076	1093	1146	1236
	15	1004	1015	1029	1081	1191
	20	951	963	972	1015	1131
	25	875	897	916	946	1057
	30	799	819	850	876	973
	35	721	740	770	804	879
	40	638	657	688	729	780
	45	550	572	602	647	676
	50	461	483	513	553	573
	55	371	392	422	457	476
	60	278	302	331	367	390
	65	187	214	244	284	314
	70	110	131	164	209	245
	75	75	75	95	139	181
	80	58	59	54	73	117
	85	30	35	34	28	53
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	1,047.9	34.6%	90-100	0.0	0.0%
0-40	1,668.2	55.1%	100-110	0.0	0.0%
0-60	2,626.2	86.7%	110-120	0.0	0.0%
60-90	402.9	13.3%	120-130	0.0	0.0%
70-100	152.5	5.0%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	3,029.1	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	3,029.1	100.0%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.36

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	15562	22484	15915
55	10275	15789	13816
65	6736	10281	12369
75	4503	5596	11642
85	5539	4966	10124

EQUIPMENT LIST

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#	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
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