

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO5-PER-REG1-LED35-SO-4-WWG

PROJECT NUMBER

G104824537

REPORT NUMBER

104824537LAX-033

ISSUE DATE

September 27, 2021

REVISED DATE

None

TEST DATES

9/27/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104824537LAX-033

MODEL NUMBER(s)

BPRO5-PER-REG1-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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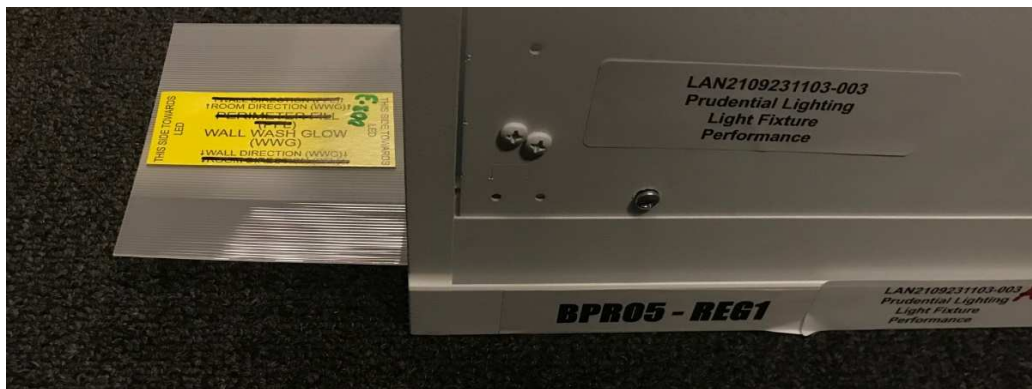
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2109231103-003	BRO5 SERIES	LED Fixture	Production	09/21/21
2	LAN2109231103-003-A	REG1	Regress Frame	Production	09/21/21
3	LAN2109231103-003-3	WWG	Lens	Production	09/21/21

TESTED SAMPLE CONFIGURATIONS

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

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-PER-REG1-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)	3876.7
Input Power (W) @ 120 (Vac)	31.46
Lumen Efficacy (lm/W)	123.2
Input Power Factor (I) @ 120 (Vac)	0.978

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-REG1-LED35-SO-4-WWG	NA

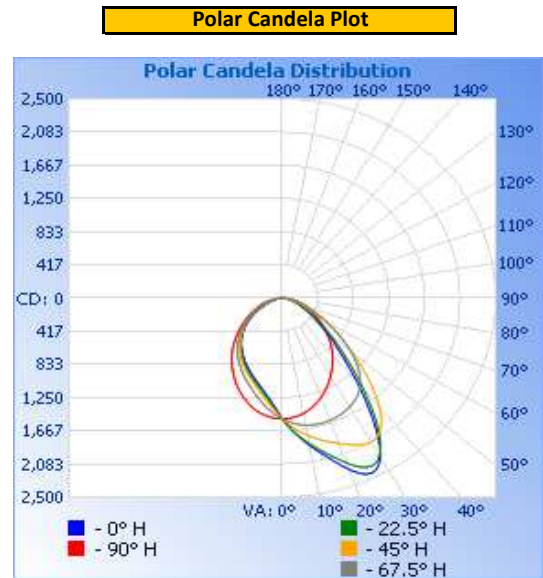
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.90	268.3	31.46	0.978	9.9

Light Output (lm)	Lumen Efficacy (lm/W)
3876.7	123.2

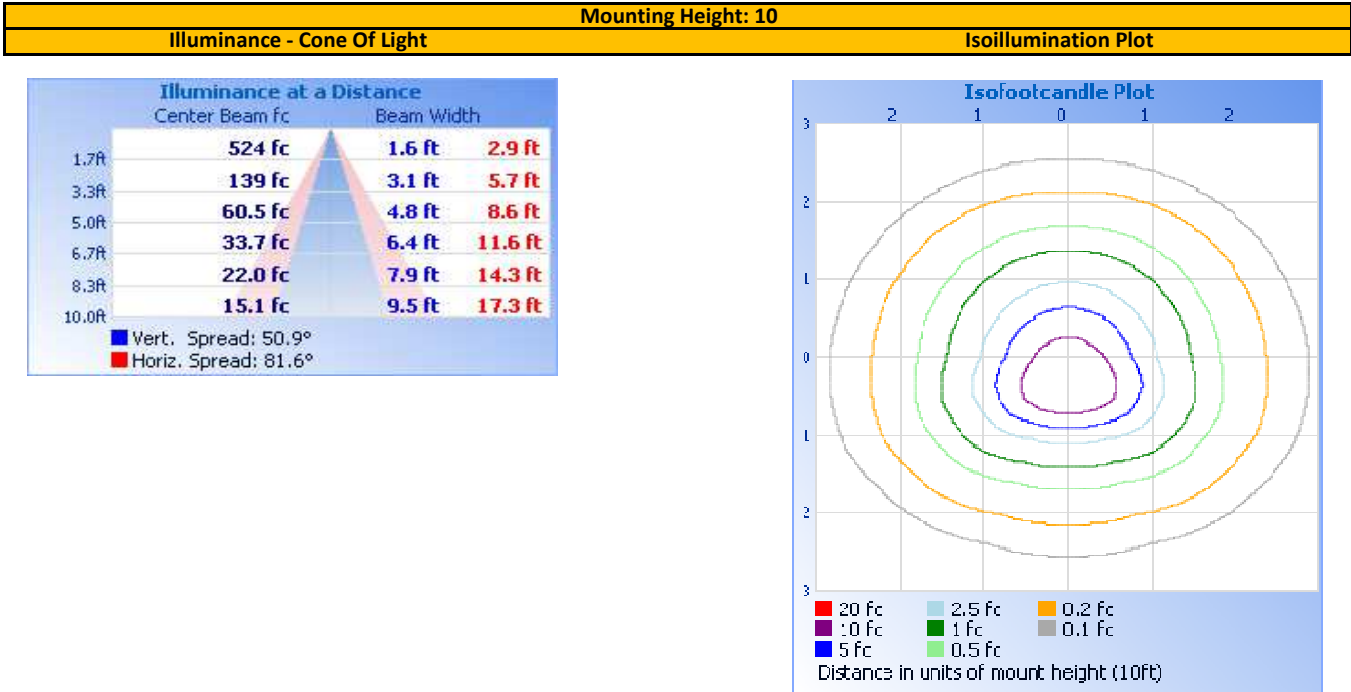
INTENSITY SUMMARY - CANDELA

	Angle	0	22.5	45	67.5	90
W A L L S I D E	90	0	0	0	0	0
	85	43	38	40	40	63
	80	82	77	79	116	138
	75	124	123	157	209	213
	70	184	190	259	314	289
	65	258	274	394	444	370
	60	357	389	573	612	461
	55	495	547	799	822	566
	50	689	768	1081	1053	682
	45	957	1059	1421	1265	800
	40	1347	1464	1766	1422	915
	35	1851	1936	2009	1519	1025
	30	2295	2279	2085	1577	1132
	25	2429	2341	2033	1613	1233
	20	2287	2200	1940	1632	1326
	15	2071	2019	1850	1635	1405
	10	1880	1857	1751	1618	1465
	5	1699	1695	1639	1577	1501
R O O M S I D E	0	1513	1513	1513	1513	1513
	5	1327	1350	1374	1431	1501
	10	1199	1219	1254	1337	1465
	15	1105	1124	1159	1241	1405
	20	1029	1049	1077	1151	1326
	25	960	978	1005	1069	1233
	30	890	906	932	987	1132
	35	820	831	855	904	1025
	40	747	756	774	818	915
	45	668	678	689	725	800
	50	577	592	600	625	682
	55	474	495	508	524	566
	60	367	391	414	427	461
	65	264	290	321	340	370
	70	184	202	231	260	289
	75	117	131	150	185	213
	80	82	82	84	110	138
	85	42	48	47	44	63
	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	1,257.4	32.4%	0-10	144.0	3.7%
0-40	2,066.1	53.3%	10-20	426.1	11.0%
0-60	3,317.8	85.6%	20-30	687.3	17.7%
60-90	558.9	14.4%	30-40	808.7	20.9%
70-100	222.6	5.7%	40-50	718.9	18.5%
90-120	0.0	0.0%	50-60	532.8	13.7%
0-90	3,876.7	100.0%	60-70	336.3	8.7%
90-180	0.0	0.0%	70-80	172.1	4.4%
0-180	3,876.7	100.0%	80-90	50.4	1.3%
			90-100	0.0	0.0%
			100-110	0.0	0.0%
			110-120	0.0	0.0%
			120-130	0.0	0.0%
			130-140	0.0	0.0%
			140-150	0.0	0.0%
			150-160	0.0	0.0%
			160-170	0.0	0.0%
			170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.42

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	9014	13384	7535
55	5748	9277	6572
65	4066	6209	5831
75	3191	4040	5481
85	3286	3057	4814

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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