

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO5-PER-REG1-LED35-SO-4-MGZ

PROJECT NUMBER

G104824537

REPORT NUMBER

104824537LAX-034

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-034

MODEL NUMBER(s)

BPRO5-PER-REG1-LED35-SO-4-MGZ

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:



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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	LAN2109231103-003-4	MGZ	Lens	Production	09/21/21

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO5-PER-REG1-LED35-SO-4-MGZ	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-MGZ
Product Description:	Wall Graze 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)	3928.5
Input Power (W) @ 120 (Vac)	31.45
Lumen Efficacy (lm/W)	124.9
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-MGZ	NA

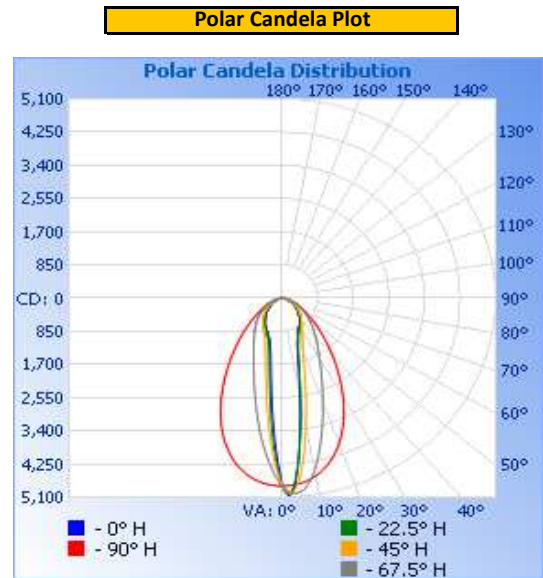
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.90	268.2	31.45	0.978	9.8

Light Output (lm)	Lumen Efficacy (lm/W)
3928.5	124.9

INTENSITY SUMMARY - CANDELA

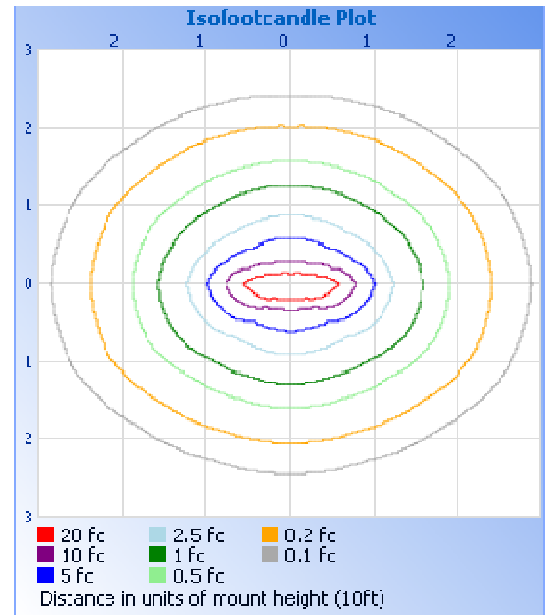
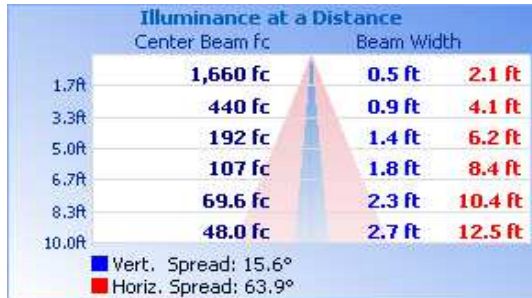
	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
W A L L S I D E	85	30	27	29	35	56
	80	64	60	67	101	127
	75	104	103	128	180	204
	70	154	156	195	273	293
	65	218	222	274	383	407
	60	294	298	360	514	560
	55	378	382	450	666	770
	50	461	467	540	832	1046
	45	547	557	627	1014	1395
	40	637	648	718	1215	1830
	35	728	735	818	1462	2338
	30	812	821	943	1782	2903
	25	910	931	1125	2228	3465
	20	1066	1108	1447	2841	3963
	15	1413	1501	2093	3629	4353
	10	2399	2501	3260	4468	4619
	5	4304	4278	4652	4981	4764
R O O M S I D E	0	4796	4796	4796	4796	4796
	5	2797	3080	3457	4105	4764
	10	1591	1779	2220	3272	4619
	15	1155	1240	1529	2530	4353
	20	985	1028	1190	1985	3963
	25	887	914	1012	1616	3465
	30	807	828	891	1359	2903
	35	711	742	796	1169	2338
	40	615	647	711	1015	1830
	45	528	557	626	878	1395
	50	443	472	536	745	1046
	55	363	387	449	612	770
	60	288	308	363	485	560
	65	214	233	278	368	407
	70	150	166	202	267	293
	75	98	109	133	179	204
	80	60	62	72	102	127
	85	26	30	32	36	56
	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					
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Zone	Lumens	Luminaire
0-30	1,697.3	43.2%
0-40	2,384.5	60.7%
0-60	3,440.4	87.6%
60-90	488.1	12.4%
70-100	191.4	4.9%
90-120	0.0	0.0%
0-90	3,928.5	100.0%
90-180	0.0	0.0%
0-180	3,928.5	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	355.1	9.0%	90-100	0.0	0.0%
10-20	639.5	16.3%	100-110	0.0	0.0%
20-30	702.7	17.9%	110-120	0.0	0.0%
30-40	687.2	17.5%	120-130	0.0	0.0%
40-50	598.0	15.2%	130-140	0.0	0.0%
50-60	457.9	11.7%	140-150	0.0	0.0%
60-70	296.7	7.6%	150-160	0.0	0.0%
70-80	151.4	3.9%	160-170	0.0	0.0%
80-90	39.9	1.0%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.48

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	5152	5905	13139
55	4389	5225	8941
65	3435	4318	6414
75	2676	3294	5249
85	2292	2216	4279

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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