

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO2-PER-REG3-LED35-SO-4-MGZ

PROJECT NUMBER

G104824537

REPORT NUMBER

104824537LAX-010

ISSUE DATE

September 28, 2021

REVISED DATE

None

TEST DATES

9/28/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104824537LAX-010

MODEL NUMBER(s)

BPRO2-PER-REG3-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	LAN2109231103-001	BRO2 SERIES	LED Fixture	Production	09/21/21
2	LAN2109231103-001-C	REG3	Regress Frame	Production	09/21/21
3	LAN2109231103-001-4	MGZ	Lens	Production	09/21/21

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO2-PER-REG3-LED35-SO-4-MGZ	1-3

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO2-PER-REG3-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)	2495.1
Input Power (W) @ 120 (Vac)	31.11
Lumen Efficacy (lm/W)	80.2
Input Power Factor (I) @ 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-REG3-LED35-SO-4-MGZ	NA

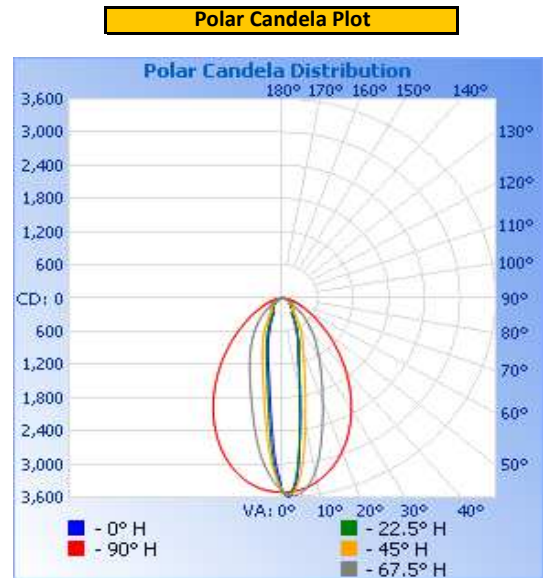
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	120.02	264.7	31.11	0.979	9.3

Light Output (lm)	Lumen Efficacy (lm/W)
2495.1	80.2

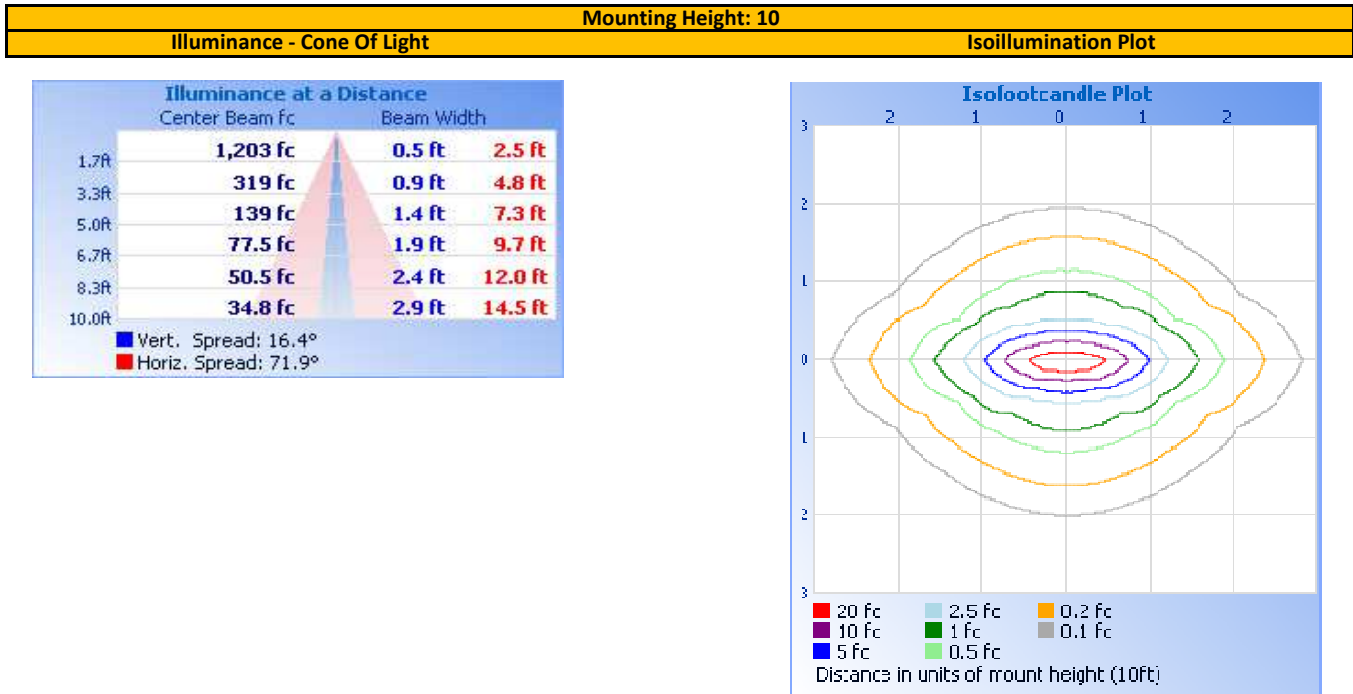
INTENSITY SUMMARY - CANDELA

	Angle	0	22.5	45	67.5	90
W A L L S I D E	90	0	0	0	0	0
	85	17	15	16	19	39
	80	36	34	36	44	107
	75	56	55	59	73	183
	70	79	77	85	109	273
	65	103	101	112	150	389
	60	127	127	143	189	547
	55	154	155	177	243	758
	50	183	185	214	405	1017
	45	217	220	253	586	1316
	40	254	259	277	780	1644
	35	293	293	401	992	1984
	30	321	356	585	1241	2330
	25	516	560	795	1567	2658
	20	764	798	1045	1999	2951
	15	1053	1097	1465	2572	3191
	10	1697	1731	2255	3195	3370
	5	3086	3023	3295	3543	3476
R O O M S I D E	0	3478	3478	3478	3478	3478
	5	2161	2401	2682	3096	3476
	10	1323	1467	1776	2537	3370
	15	932	1038	1282	1988	3191
	20	643	744	978	1590	2951
	25	424	509	739	1301	2658
	30	313	337	533	1068	2330
	35	285	296	368	869	1984
	40	244	261	283	688	1644
	45	205	220	256	522	1316
	50	172	184	217	367	1017
	55	143	152	177	238	758
	60	117	125	141	194	547
	65	94	99	110	153	389
	70	71	76	83	109	273
	75	50	54	58	72	183
	80	31	34	36	43	107
	85	14	16	17	19	39
	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	1,232.0	49.4%	0-10	260.8	10.5%
0-40	1,661.7	66.6%	10-20	477.7	19.1%
0-60	2,240.8	89.8%	20-30	493.5	19.8%
60-90	254.3	10.2%	30-40	429.7	17.2%
70-100	103.4	4.1%	40-50	345.3	13.8%
90-120	0.0	0.0%	50-60	233.8	9.4%
0-90	2,495.1	100.0%	60-70	150.9	6.0%
90-180	0.0	0.0%	70-80	80.9	3.2%
0-180	2,495.1	100.0%	80-90	22.4	0.9%
			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)	0.34
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.52

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	5109	5957	30983
55	4470	5137	22001
65	4057	4412	15323
75	3602	3795	11771
85	3247	3056	7449

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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