

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO2-PER-REG1-LED35-SO-4-MGZ

PROJECT NUMBER

G104824537

REPORT NUMBER

104824537LAX-008

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-008

MODEL NUMBER(s)

BPRO2-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.

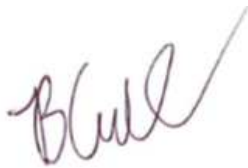
AUTHORIZATION

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	LAN2109231103-001	BRO2 SERIES	LED Fixture	Production	09/21/21
2	LAN2109231103-001-B	REG1	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-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.:	BPRO2-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)	3053.2
Input Power (W) @ 120 (Vac)	31.10
Lumen Efficacy (lm/W)	98.2
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-REG1-LED35-SO-4-MGZ	NA

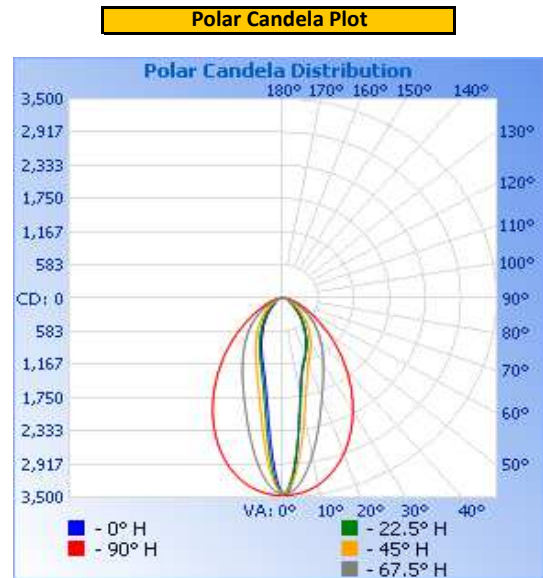
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.90	264.9	31.10	0.979	9.3

Light Output (lm)	Lumen Efficacy (lm/W)
3053.2	98.2

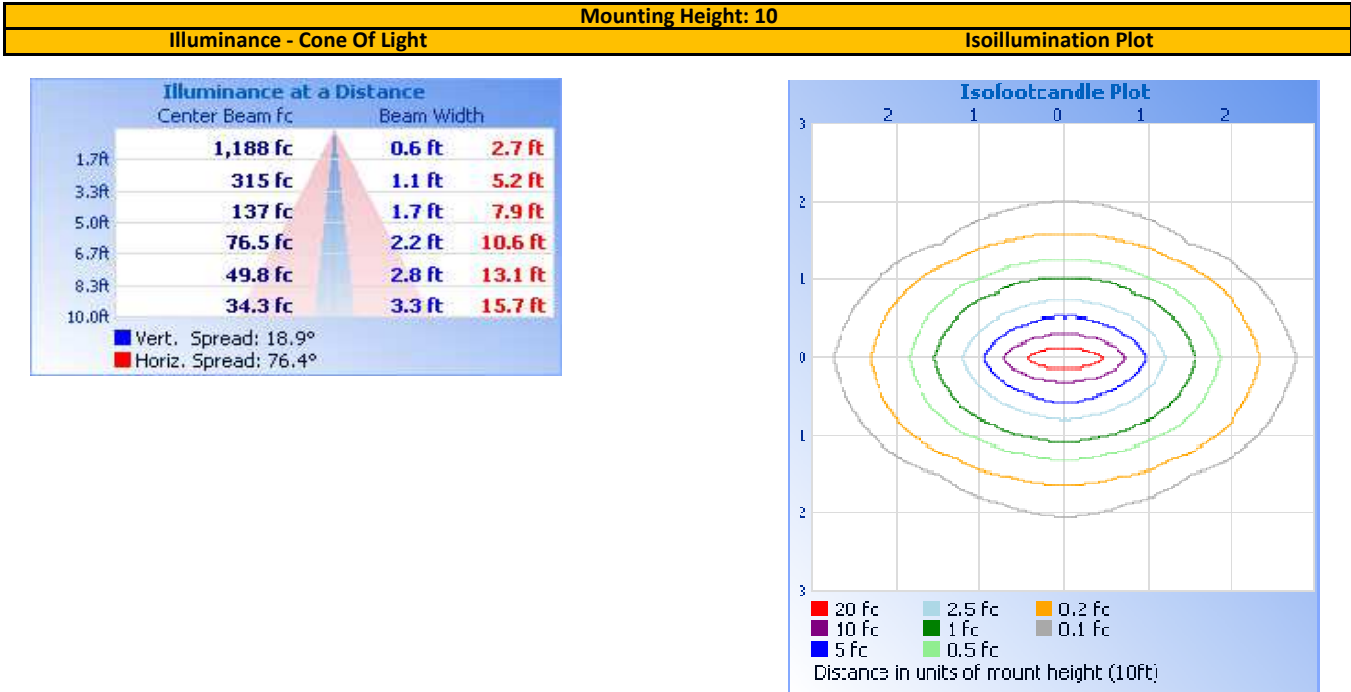
INTENSITY SUMMARY - CANDELA

	Angle	0	22.5	45	67.5	90
W A L L S I D E	90	0	0	0	0	0
	85	24	21	22	24	46
	80	47	44	46	50	108
	75	72	69	72	88	176
	70	96	93	90	168	258
	65	114	110	124	263	369
	60	125	130	200	377	524
	55	181	194	289	507	732
	50	258	278	391	650	993
	45	355	376	505	802	1289
	40	465	491	629	960	1613
	35	596	622	766	1131	1953
	30	744	768	910	1326	2295
	25	905	925	1059	1566	2622
	20	1072	1086	1230	1870	2914
	15	1251	1275	1517	2287	3156
	10	1665	1699	2057	2796	3332
	5	2685	2647	2906	3260	3436
R O O M S I D E	0	3434	3434	3434	3434	3434
	5	2420	2632	2863	3211	3436
	10	1604	1751	2056	2739	3332
	15	1239	1328	1561	2247	3156
	20	1007	1086	1265	1852	2914
	25	817	888	1055	1563	2622
	30	658	722	876	1318	2295
	35	526	580	721	1114	1953
	40	410	461	586	933	1613
	45	310	356	470	769	1289
	50	225	264	366	617	993
	55	155	185	272	478	732
	60	122	127	188	354	524
	65	109	110	117	248	369
	70	89	93	91	159	258
	75	64	69	72	83	176
	80	39	43	46	50	108
	85	16	19	21	24	46
	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	1,376.3	45.1%	0-10	257.4	8.4%
0-40	1,958.3	64.1%	10-20	513.9	16.8%
0-60	2,749.3	90.0%	20-30	605.0	19.8%
60-90	303.9	10.0%	30-40	582.0	19.1%
70-100	121.3	4.0%	40-50	473.0	15.5%
90-120	0.0	0.0%	50-60	318.0	10.4%
0-90	3,053.2	100.0%	60-70	182.7	6.0%
90-180	0.0	0.0%	70-80	93.7	3.1%
0-180	3,053.2	100.0%	80-90	27.6	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)	0.62

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	8358	11889	30348
55	5253	8388	21246
65	4491	4885	14536
75	4631	4631	11321
85	4584	4202	8787

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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