

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

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

PROJECT NUMBER

G104824537

REPORT NUMBER

104824537LAX-004

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-004

MODEL NUMBER(s)

BPRO2-PER-REG.5-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:



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	LAN2109231103-001-4	MGZ	Lens	Production	09/21/21

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO2-PER-REG.5-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-REG.5-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)	3210.1
Input Power (W) @ 120 (Vac)	31.08
Lumen Efficacy (lm/W)	103.3
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-REG.5-LED35-SO-4-MGZ	NA

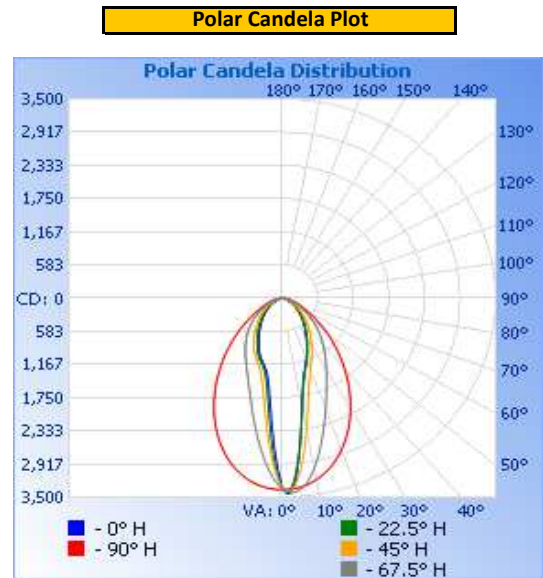
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

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

Light Output (lm)	Lumen Efficacy (lm/W)
3210.1	103.3

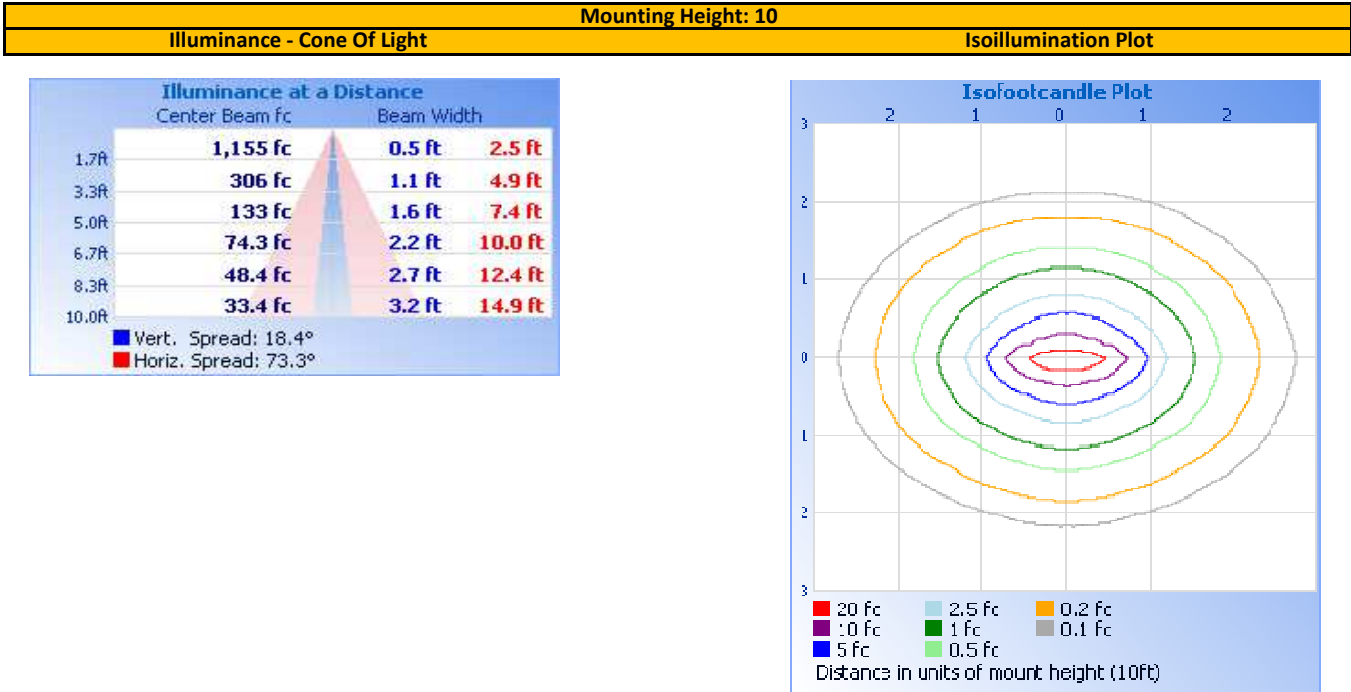
INTENSITY SUMMARY - CANDELA

W A L L S I D E	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
	85	20	18	19	17	46
	80	37	34	33	58	103
	75	48	46	65	121	168
	70	81	84	123	196	247
	65	133	140	188	287	354
	60	198	206	262	402	505
	55	269	279	345	537	711
	50	348	358	439	690	966
	45	434	448	545	858	1257
	40	533	551	666	1034	1575
	35	647	671	806	1224	1906
	30	788	813	966	1447	2240
	25	952	981	1143	1721	2557
	20	1152	1173	1351	2078	2838
	15	1379	1408	1683	2535	3070
	10	1865	1902	2307	3030	3237
	5	2951	2903	3132	3378	3335
	0	3337	3337	3337	3337	3337
R O O M S I D E	5	2095	2297	2533	2943	3335
	10	1399	1503	1758	2418	3237
	15	1196	1234	1362	1951	3070
	20	1068	1109	1188	1610	2838
	25	911	966	1066	1376	2557
	30	768	819	933	1202	2240
	35	639	685	794	1054	1906
	40	528	568	667	916	1575
	45	429	466	553	780	1257
	50	343	374	449	640	966
	55	264	291	355	508	711
	60	193	217	270	387	505
	65	129	150	195	282	354
	70	76	91	129	194	247
	75	46	47	70	122	168
	80	34	36	34	60	103
	85	18	20	20	18	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	1,381.6	43.0%	90-100	0.0	0.0%
0-40	1,990.4	62.0%	100-110	0.0	0.0%
0-60	2,875.2	89.6%	110-120	0.0	0.0%
60-90	334.9	10.4%	120-130	0.0	0.0%
70-100	118.9	3.7%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	3,210.1	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	3,210.1	100.0%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.66

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	10218	12831	29594
55	7808	10013	20636
65	5239	7406	13945
75	3087	4181	10806
85	3820	3629	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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