

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO5-PER-REG.5-LED35-SO-4-WWF

PROJECT NUMBER

G104848644

REPORT NUMBER

104848644LAX-010

ISSUE DATE

October 19, 2021

REVISED DATE

None

TEST DATES

October 19, 2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104848644LAX-010

MODEL NUMBER(s)

BPRO5-PER-REG.5-LED35-SO-4-WWF

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

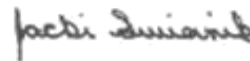
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



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SAMPLE INFORMATION

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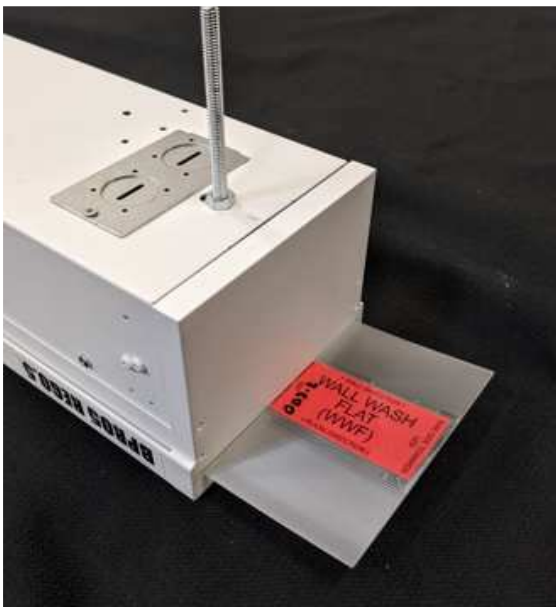
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2110151314-002	BPRO5-PER-REG.5-LED35-SO-4-WWF	Flat Wall Wash LED Fixture	Production	10/15/2021
2	LAN2110151314-002-A	Reg 0.5	Frame	Production	10/15/2021
3	LAN2110151314-002-F	WWF	Lens	Production	10/15/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO5-PER-REG.5-LED35-SO-4-WWF	1,2,3

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-PER-REG.5-LED35-SO-4-WWF
Product Description:	Flat 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)	3941.2
Input Power (W) @ 120 (Vac)	31.19
Lumen Efficacy (lm/W)	126.4
Input Power Factor (I) @ 120 (Vac)	0.977

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-REG.5-LED35-SO-4-WWF	NA

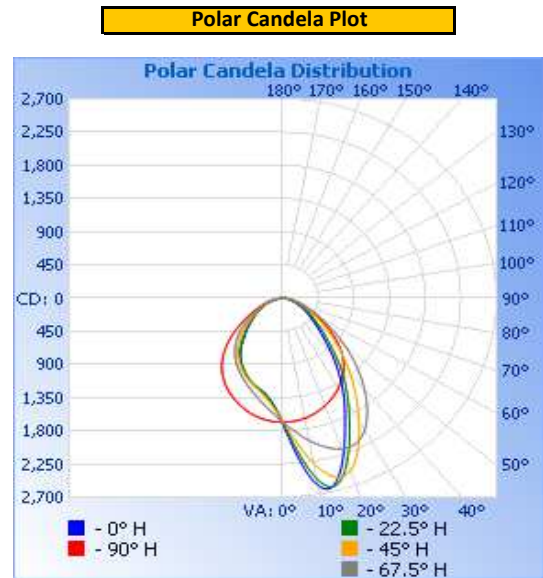
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.90	266.2	31.19	0.977	10.1

Light Output (lm)	Lumen Efficacy (lm/W)
3941.2	126.4

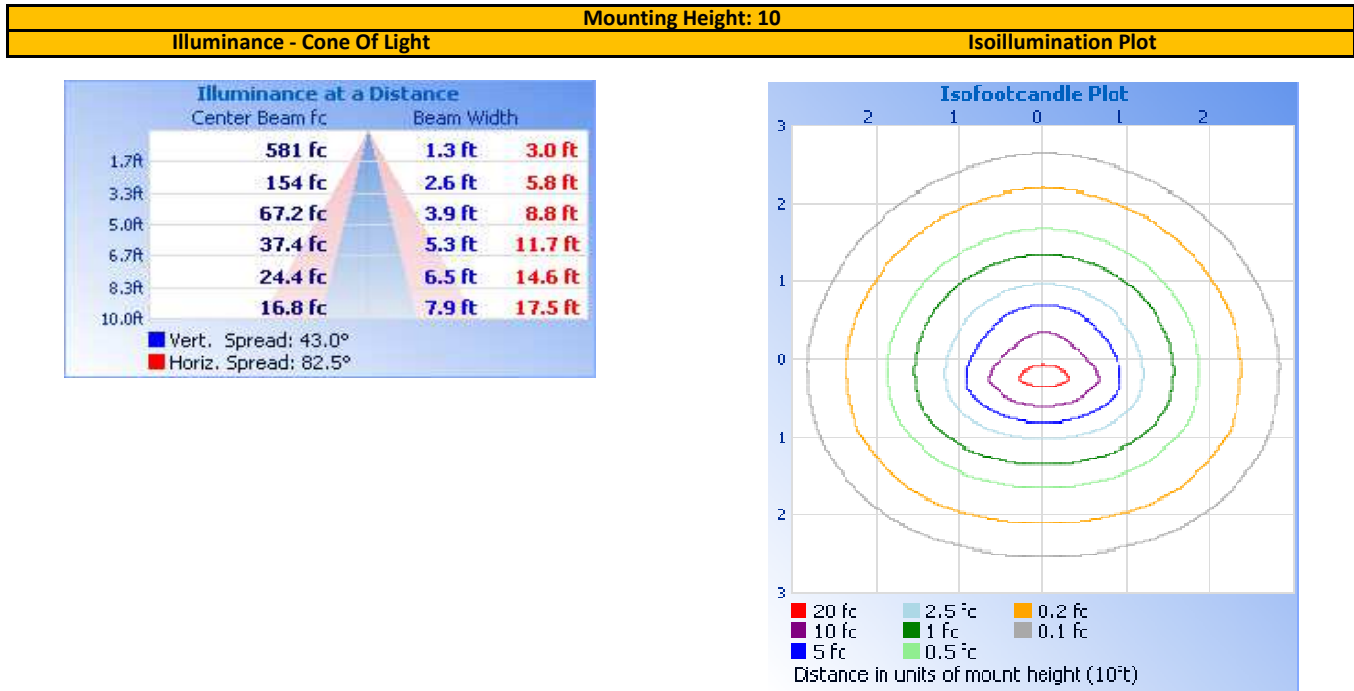
INTENSITY SUMMARY - CANDELA

W A L L S I D E	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
	85	27	30	33	46	56
	80	62	73	95	117	122
	75	109	128	169	194	192
	70	170	194	252	288	275
	65	239	269	348	411	381
	60	319	357	465	578	520
	55	413	466	613	795	694
	50	535	607	806	1051	880
	45	697	802	1048	1326	1053
	40	938	1062	1319	1601	1197
	35	1232	1355	1607	1859	1313
	30	1545	1659	1924	2066	1407
	25	1864	2000	2250	2176	1486
	20	2246	2369	2493	2174	1553
	15	2588	2622	2508	2090	1608
	10	2579	2490	2278	1962	1649
	5	2153	2068	1954	1819	1673
R O O M S I D E	0	1680	1680	1680	1680	1680
	5	1442	1435	1472	1556	1673
	10	1314	1314	1347	1449	1649
	15	1254	1249	1266	1355	1608
	20	1198	1192	1204	1272	1553
	25	1121	1118	1140	1195	1486
	30	1039	1039	1063	1118	1407
	35	937	942	978	1035	1313
	40	802	814	878	942	1197
	45	667	677	755	833	1053
	50	551	555	621	706	880
	55	453	450	497	570	694
	60	369	360	388	440	520
	65	298	282	296	329	381
	70	221	209	216	240	275
	75	135	132	144	166	192
	80	64	63	78	101	122
	85	28	25	27	39	56
	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	1,417.0	36.0%	90-100	0.0	0.0%
0-40	2,210.0	56.1%	100-110	0.0	0.0%
0-60	3,410.0	86.5%	110-120	0.0	0.0%
60-90	531.3	13.5%	120-130	0.0	0.0%
70-100	208.8	5.3%	130-140	0.0	0.0%
90-120	0.0	0.0%	140-150	0.0	0.0%
0-90	3,941.2	100.0%	150-160	0.0	0.0%
90-180	0.0	0.0%	160-170	0.0	0.0%
0-180	3,941.2	100.0%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.28

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	6560	9864	9911
55	4792	7113	8052
65	3764	5480	6000
75	2803	4346	4937
85	2062	2520	4276

EQUIPMENT LIST

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Goniophotometer	6440T	000943	VBU	VBU
2	AC Source	CW1251P	000944	VBU	VBU
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	Temp. & RH Meter	971	002137	09/20/21	09/20/22

REVISION HISTORY

#	Revision Date	Updated By	Reviewed BY	Description of Change
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