

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO2-PER-REG1-LED35-SO-4-SAL

PROJECT NUMBER

G104848644

REPORT NUMBER

104848644LAX-011

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-011

MODEL NUMBER(s)

BPRO2-PER-REG1-LED35-SO-4-SAL

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

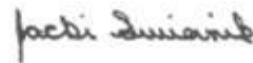
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

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	LAN2110151314-007	BPRO2-PER-REG1-LED35-SO-4-SAL	Satin Lambertian LED Fixture	Production	10/15/2021
2	LAN2110151314-006	Reg 1	Frame	Production	10/15/2021
3	LAN2110151314-007-B	SAL	Lens	Production	10/15/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO2-PER-REG1-LED35-SO-4-SAL	1,2,3

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO2-PER-REG1-LED35-SO-4-SAL
Product Description:	Satin Lambertian 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)	2533.8
Input Power (W) @ 120 (Vac)	31.07
Lumen Efficacy (lm/W)	81.5
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-SAL	NA

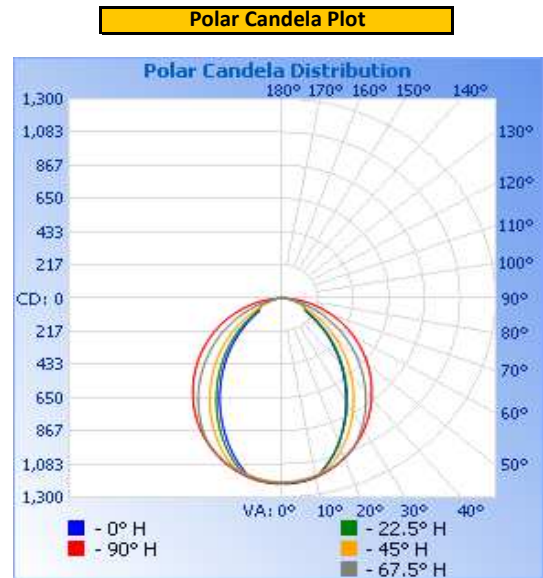
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.90	264.7	31.07	0.979	9.3

Light Output (lm)	Lumen Efficacy (lm/W)
2533.8	81.5

INTENSITY SUMMARY - CANDELA

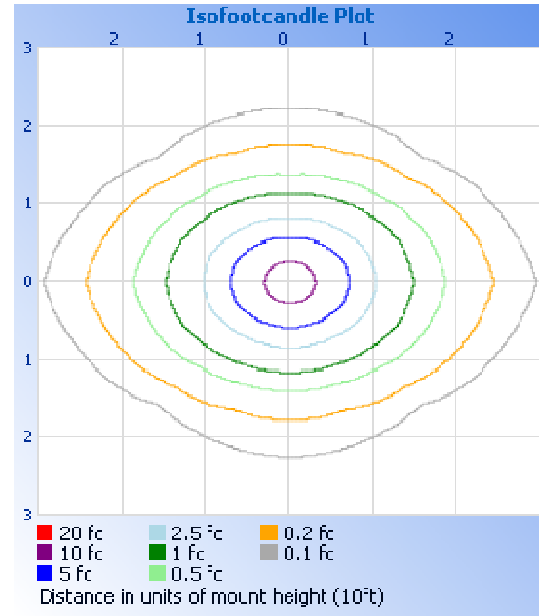
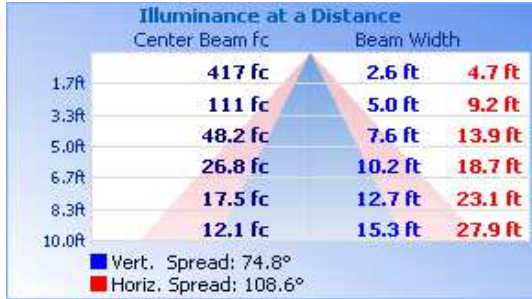
Angle	0	22.5	45	67.5	90
0	1205	1205	1205	1205	1205
5	1203	1198	1193	1200	1206
10	1183	1177	1173	1180	1187
15	1106	1102	1134	1149	1154
20	1008	1006	1052	1106	1111
25	894	899	960	1053	1057
30	781	789	861	973	994
35	663	677	757	884	924
40	554	566	652	789	847
45	443	458	547	690	766
50	340	354	444	590	681
55	240	255	343	490	594
60	169	170	246	391	505
65	154	148	156	293	415
70	128	124	121	198	325
75	93	89	95	108	235
80	59	55	59	66	148
85	29	25	26	30	62
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0



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ILLUMINANCE SUMMARY

Illuminance - Cone Of Light		Mounting Height: 10	Isoillumination Plot	
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ZONAL LUMENS

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	878.1	34.7%
0-40	1,365.8	53.9%
0-60	2,151.9	84.9%
60-90	381.9	15.1%
70-100	159.8	6.3%
90-120	0.0	0.0%
0-90	2,533.8	100.0%
90-180	0.0	0.0%
0-180	2,533.8	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	113.7	4.5%	90-100	0.0	0.0%
10-20	317.1	12.5%	100-110	0.0	0.0%
20-30	447.3	17.7%	110-120	0.0	0.0%
30-40	487.7	19.2%	120-130	0.0	0.0%
40-50	446.0	17.6%	130-140	0.0	0.0%
50-60	340.0	13.4%	140-150	0.0	0.0%
60-70	222.1	8.8%	150-160	0.0	0.0%
70-80	123.4	4.9%	160-170	0.0	0.0%
80-90	36.4	1.4%	170-180	0.0	0.0%

SPACING CRITERION

Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.18

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	10411	12855	18002
55	6953	9938	17210
65	6055	6134	16318
75	5971	6100	15089
85	5529	4957	11821

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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