

PRUDENTIAL

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

BPRO5-PER-REG1-LED35-SO-4-SAL

PROJECT NUMBER

G104848644

REPORT NUMBER

104848644LAX-014

ISSUE DATE

October 20, 2021

REVISED DATE

None

TEST DATES

October 20, 2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

© 2017 INTERTEK



REPORT NUMBER

104848644LAX-014

MODEL NUMBER(s)

BPRO5-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

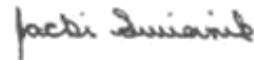
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Nicolas Manders
Engineer
Lighting Division



Jacki Swiernik
Staff Engineer
Lighting Division

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

SAMPLE INFORMATION

REPORT NO. 104848644LAX-014

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	LAN2110151314-002	BPRO5-PER-REG1-LED35-SO-4-SAL	Satin Lambertian LED Fixture	Production	10/15/2021
2	LAN2110151314-003	Reg 1	Frame	Production	10/15/2021
3	LAN2110151314-002-B	SAL	Lens	Production	10/15/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	BPRO5-PER-REG1-LED35-SO-4-SAL	1,2,3

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 104848644LAX-014

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	BPRO5-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)	3631.7
Input Power (W) @ 120 (Vac)	31.14
Lumen Efficacy (lm/W)	116.6
Input Power Factor (PF) @ 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

REPORT NO. 104848644LAX-014

Test Configuration	Tested Model No.	Pass/Fail/NA
1	BPRO5-PER-REG1-LED35-SO-4-SAL	NA

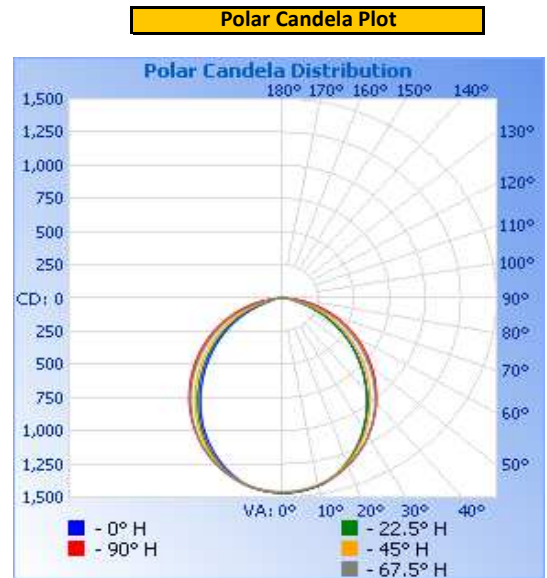
PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)	Input ATHD(%)
Up	119.89	265.8	31.14	0.977	10.0

Light Output (lm)	Lumen Efficacy (lm/W)
3631.7	116.6

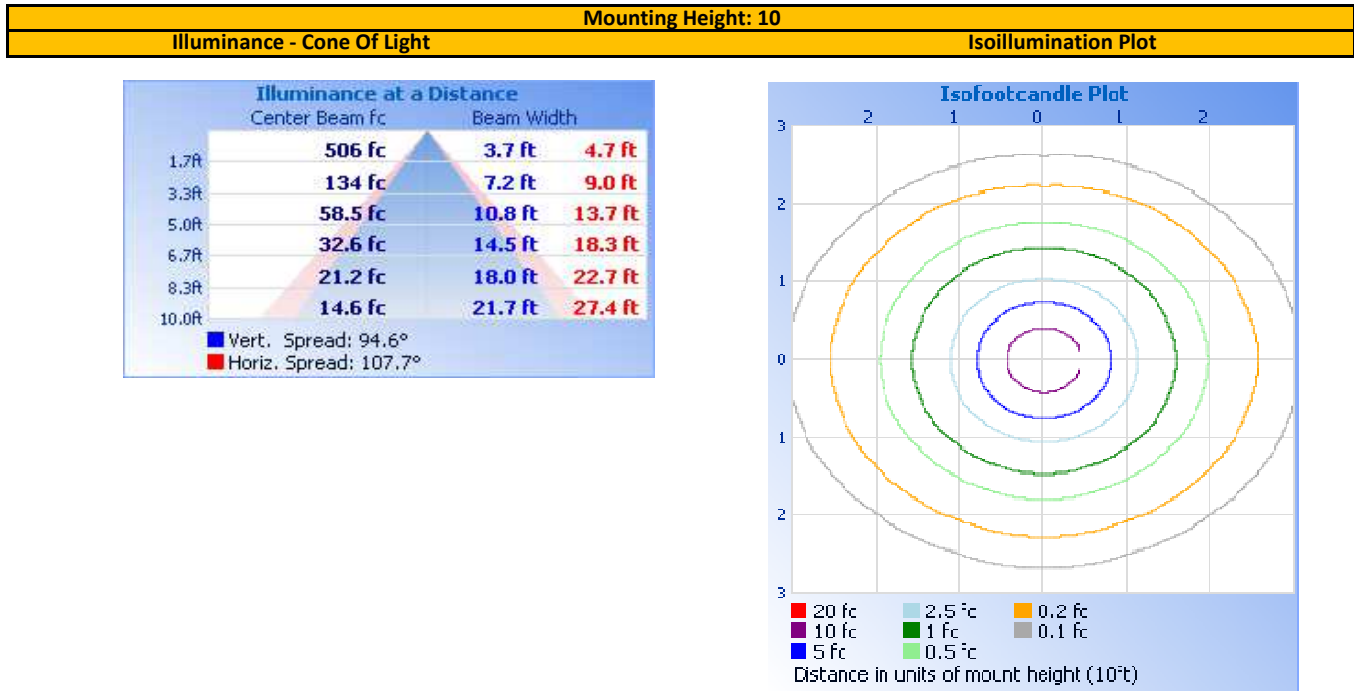
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	1462	1462	1462	1462	1462
5	1460	1456	1449	1455	1455
10	1436	1431	1426	1432	1431
15	1392	1384	1386	1393	1393
20	1325	1315	1324	1341	1340
25	1238	1230	1247	1277	1275
30	1137	1133	1158	1199	1199
35	1031	1028	1059	1108	1113
40	916	916	954	1008	1019
45	801	800	843	903	920
50	682	683	731	794	817
55	567	568	617	682	710
60	449	452	503	570	603
65	334	336	388	457	495
70	222	224	274	346	387
75	125	126	163	234	281
80	77	72	74	125	177
85	42	37	39	40	74
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



REPORT NO. 104848644LAX-014

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	1,105.4	30.4%	0-10	138.1	3.8%
0-40	1,771.8	48.8%	10-20	391.0	10.8%
0-60	2,989.2	82.3%	20-30	576.2	15.9%
60-90	642.5	17.7%	30-40	666.4	18.4%
70-100	246.9	6.8%	40-50	657.0	18.1%
90-120	0.0	0.0%	50-60	560.3	15.4%
0-90	3,631.7	100.0%	60-70	395.6	10.9%
90-180	0.0	0.0%	70-80	196.4	5.4%
0-180	3,631.7	100.0%	80-90	50.5	1.4%
			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)	1.18
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30

LUMINANCE DATA - AVERAGE LUMINANCE (cd/m²)

Angle	0	45	90
45	7539	7934	8659
55	6579	7159	8238
65	5260	6110	7795
75	3214	4191	7225
85	3207	2978	5651

EQUIPMENT LIST

REPORT NO. 104848644LAX-014

#	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
---	None	---	---	---
---	---	---	---	---
---	---	---	---	---