

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: October 1, 2020

REPORT NO. 104464711LAX-009

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-FLSH-LED35-SO-4-WWG-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50G2 - 832MAMP

RENDERED TO

PRUDENTIAL LIGHTING

1774 EAST 21ST

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.

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-01069292-0.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

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

DESCRIPTION OF SAMPLE: The client submitted one Production sample of model number BPRO3-FLSH-LED35-SO-4-WWG-DM01. The sample was received by Intertek on September 29, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2009290928-001.

DATES OF TESTS: September 30, 2020

SUMMARY

Model No.:	BPRO3-FLSH-LED35-SO-4-WWG-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3882
Total Power (W)	31.31
Luminaire Efficacy (LPW)	124.0
Power Factor	0.975

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	09/30/20
AC Source	CW1251P	000944	VBU	VBU	09/30/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	09/30/20
Tape Measure	33-428	001491	VBU	VBU	09/30/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	09/30/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	09/30/20

TEST METHODS

Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79.

Photometric and Electrical Measurements – Distribution Method

A LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

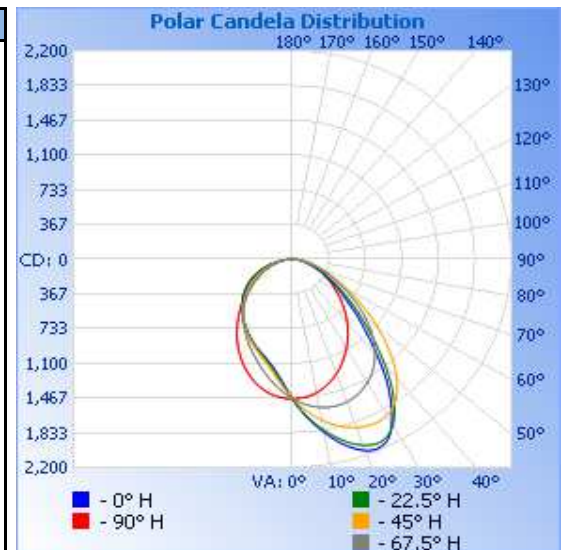
RESULTS OF TEST

Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (LPW)
LAN2009290928-001	Up	120.1	267.6	31.31	0.974	3882	124.0

Intensity (Candlepower) Summary at 25°C - Candelas

	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
W A L L S I D E	85	45	44	54	59	60
	80	94	100	125	131	128
	75	154	163	210	212	194
	70	224	242	320	308	260
	65	318	344	462	430	331
	60	432	472	642	583	412
	55	582	637	864	764	507
	50	766	845	1118	955	617
	45	1013	1113	1385	1136	734
	40	1326	1439	1630	1291	853
	35	1694	1773	1809	1414	972
	30	1999	2019	1902	1505	1087
	25	2163	2121	1921	1568	1194
	20	2150	2091	1890	1602	1288
	15	2029	1983	1824	1609	1369
	10	1859	1835	1727	1588	1428
	5	1674	1664	1605	1541	1463
	0	1471	1471	1471	1471	1471
R O O M S I D E	5	1283	1298	1324	1385	1463
	10	1152	1163	1199	1288	1428
	15	1069	1078	1104	1190	1369
	20	1010	1016	1031	1098	1288
	25	953	959	968	1013	1194
	30	893	897	905	931	1087
	35	834	835	839	852	972
	40	777	774	770	771	853
	45	717	710	695	685	734
	50	652	643	617	593	617
	55	583	572	535	499	507
	60	508	494	452	408	412
	65	429	414	368	325	331
	70	341	330	285	252	260
	75	247	244	206	184	194
	80	154	155	131	120	128
	85	67	72	62	57	60
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

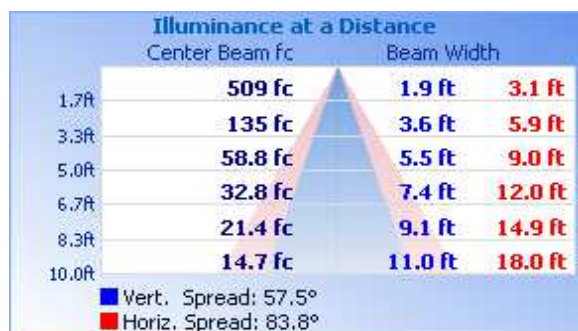


RESULTS OF TEST (cont'd)

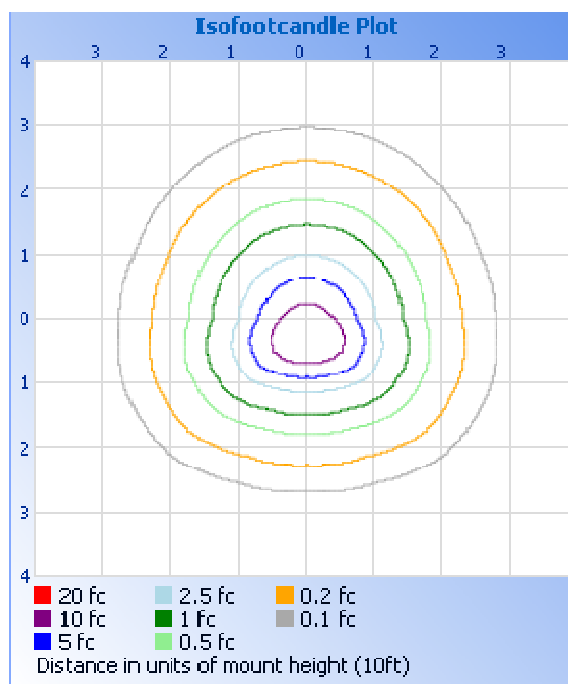
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1203	31.0
0-40	1963	50.6
0-60	3225	83.1
60-90	657.5	16.9
0-90	3882	100.0
90-180	0.0	0.0
0-180	3882	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	140.2	3.6
10-20	414.0	10.7
20-30	649.1	16.7
30-40	759.5	19.6
40-50	706.0	18.2
50-60	555.9	14.3
60-70	379.0	9.8
70-80	214.0	5.5
80-90	64.5	1.7

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.42

PICTURES (not to scale)



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:



Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak
Engineering Supervisor
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