

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 12, 2020

REPORT NO. 104473769LAX-016

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-SO-4-WGZ-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 BPRO5-FLSH-LED35-SO-4-WGZ-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 LAN2009290928-002.

DATES OF TESTS: October 12, 2020

SUMMARY

Model No.:	BPRO5-FLSH-LED35-SO-4-WGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4212
Total Power (W)	30.98
Luminaire Efficacy (LPW)	136.0
Power Factor	0.979

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/12/20
AC Source	CW1251P	000944	VBU	VBU	10/12/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/12/20
Tape Measure	33-428	001491	VBU	VBU	10/12/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/12/20

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.

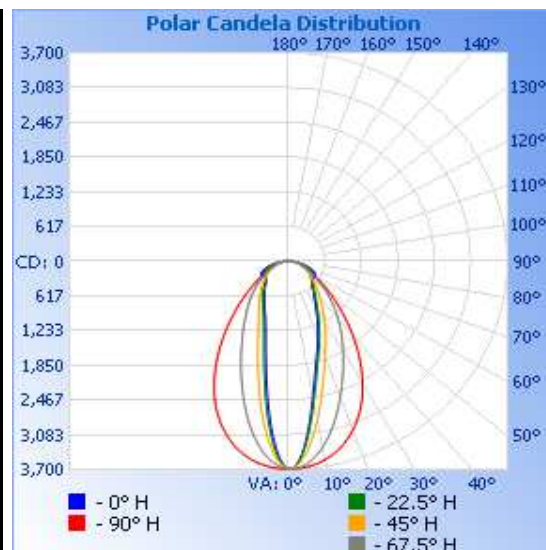
RESULTS OF TEST

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)
LAN2009290928-002	Up	120.0	263.6	30.98	0.979	4212	136.0

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	99	95	70	59	64
	80	187	183	137	126	135
	75	294	279	201	195	208
	70	399	363	261	272	287
	65	480	418	322	365	385
	60	513	446	388	483	518
	55	517	470	466	636	706
	50	530	510	561	825	963
	45	573	577	677	1047	1292
	40	650	673	821	1293	1673
	35	764	805	1002	1558	2093
	30	927	984	1225	1849	2507
	25	1156	1227	1492	2183	2882
	20	1458	1526	1812	2565	3189
	15	1824	1904	2253	2975	3422
	10	2407	2501	2841	3348	3580
	5	3258	3290	3429	3610	3665
	0	3686	3686	3686	3686	3686
R O O M S I D E	5	3079	3180	3332	3543	3665
	10	2137	2285	2646	3209	3580
	15	1479	1606	1983	2764	3422
	20	1132	1210	1502	2304	3189
	25	944	993	1191	1892	2882
	30	818	852	990	1553	2507
	35	709	741	848	1284	2093
	40	618	643	735	1068	1673
	45	548	560	634	885	1292
	50	505	496	540	722	963
	55	495	454	458	577	706
	60	504	434	385	453	518
	65	494	419	322	351	385
	70	430	382	264	267	287
	75	326	307	205	194	208
	80	211	210	142	127	135
	85	111	113	75	61	64
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

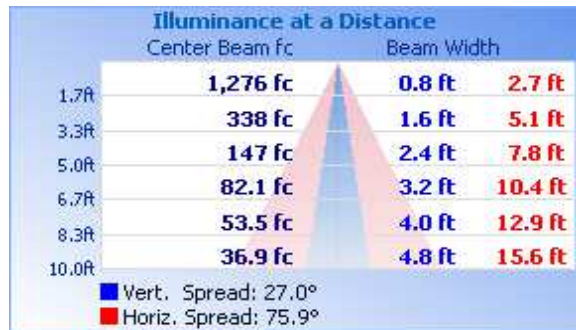


RESULTS OF TEST (cont'd)

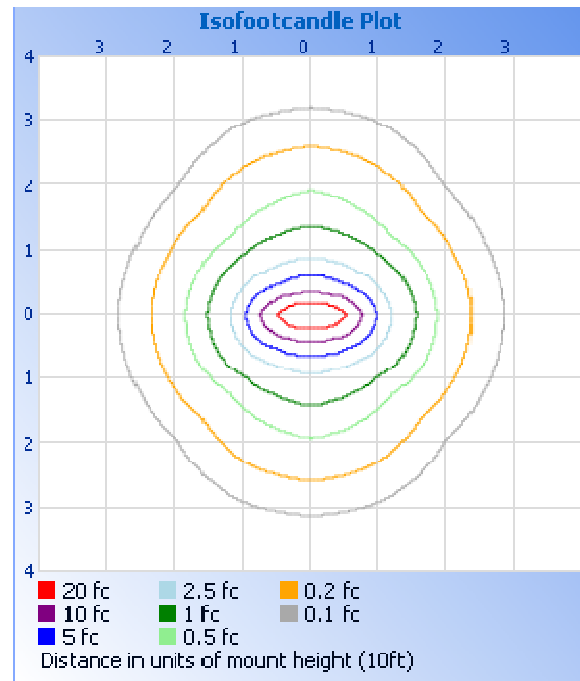
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1698	40.3
0-40	2408	57.2
0-60	3493	82.9
60-90	719.4	17.1
0-90	4212	100.0
90-180	0.0	0.0
0-180	4212	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	305.8	7.3
10-20	649.4	15.4
20-30	742.6	17.6
30-40	709.8	16.9
40-50	603.5	14.3
50-60	481.5	11.4
60-70	379.5	9.0
70-80	249.8	5.9
80-90	90.1	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.70

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
Lighting Division