

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 9, 2020

REPORT NO. 104473769LAX-004

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-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 BPRO2-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 LAN2009290928-003.

DATES OF TESTS: October 8, 2020

SUMMARY

Model No.:	BPRO2-FLSH-LED35-SO-4-WGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3458
Total Power (W)	31.07
Luminaire Efficacy (LPW)	111.3
Power Factor	0.982

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/08/20
AC Source	CW1251P	000944	VBU	VBU	10/08/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/08/20
Tape Measure	33-428	001491	VBU	VBU	10/08/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/08/20

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.

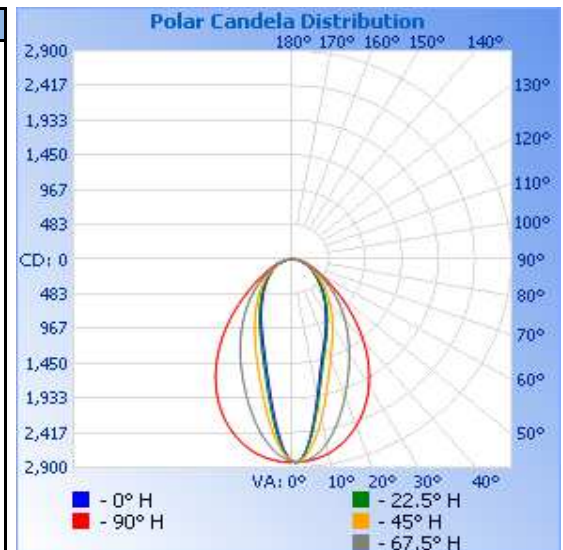
RESULTS OF TEST

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)
LAN2009290928-003	Up	120.0	263.5	31.07	0.982	3458	111.3

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	32	31	36	44	53
	80	76	76	84	98	112
	75	123	124	134	155	174
	70	175	176	190	218	242
	65	231	233	253	298	329
	60	295	297	328	400	452
	55	366	371	414	533	629
	50	445	454	514	695	867
	45	536	549	629	879	1150
	40	637	657	759	1075	1454
	35	757	781	905	1282	1751
	30	888	923	1065	1506	2027
	25	1051	1086	1250	1755	2270
	20	1236	1278	1478	2036	2470
	15	1486	1544	1803	2333	2630
	10	1918	1985	2237	2604	2745
	5	2545	2565	2665	2785	2808
	0	2812	2812	2812	2812	2812
R O O M S I D E	5	2354	2416	2518	2684	2808
	10	1788	1866	2074	2444	2745
	15	1405	1476	1684	2153	2630
	20	1157	1213	1398	1870	2470
	25	970	1018	1173	1612	2270
	30	821	859	989	1378	2027
	35	698	730	834	1166	1751
	40	596	622	704	973	1454
	45	508	528	591	795	1150
	50	430	444	491	634	867
	55	363	370	402	493	629
	60	304	305	323	377	452
	65	249	247	254	286	329
	70	194	193	193	214	242
	75	138	141	139	154	174
	80	85	89	90	100	112
	85	35	39	42	47	53
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

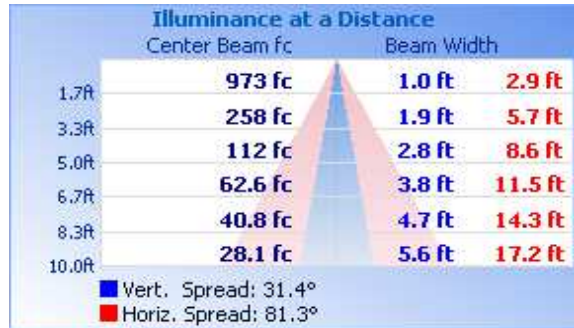


RESULTS OF TEST (cont'd)

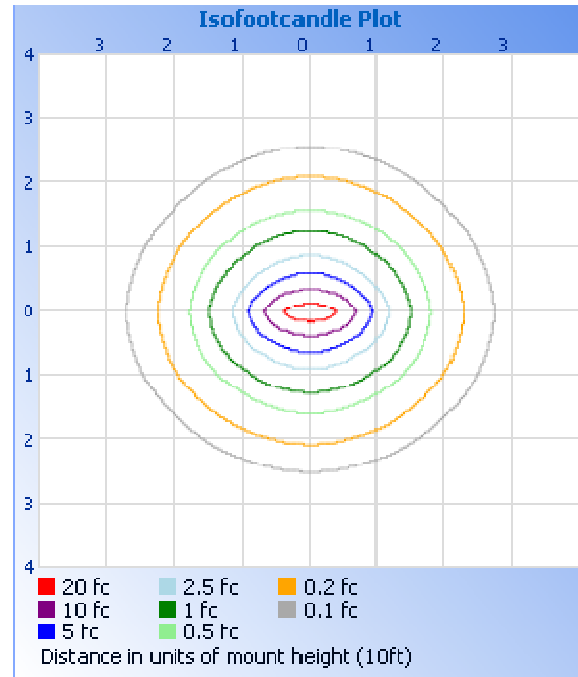
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1407	40.7
0-40	2046	59.2
0-60	2993	86.6
60-90	464.9	13.4
0-90	3458	100.0
90-180	0.0	0.0
0-180	3458	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	236.4	6.8
10-20	528.3	15.3
20-30	642.1	18.6
30-40	639.1	18.5
40-50	544.9	15.8
50-60	402.3	11.6
60-70	266.8	7.7
70-80	152.5	4.4
80-90	45.6	1.3

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.80

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:

A handwritten signature in black ink, appearing to read "Kellen Murakami".

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read "Vladimir Kozak".

Vladimir Kozak
Engineering Supervisor
Lighting Division