

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: September 30, 2020

REPORT NO. 104464711LAX-005

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-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 BPRO2-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 LAN2009290928-003.

DATES OF TESTS: September 30, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	3344
Total Power (W)	31.04
Luminaire Efficacy (LPW)	107.7
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	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.

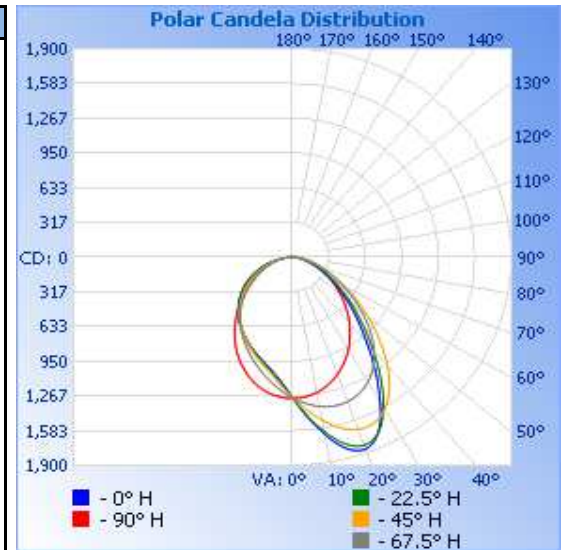
RESULTS OF TEST

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)
LAN2009290928-003	Up	120.0	263.2	31.04	0.982	3344	107.7

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	35	34	42	49	53
	80	77	80	102	112	113
	75	126	134	174	181	172
	70	187	202	265	263	232
	65	266	288	381	363	296
	60	365	395	520	487	370
	55	486	525	684	634	457
	50	625	678	870	795	556
	45	796	860	1072	956	662
	40	998	1080	1280	1100	769
	35	1253	1333	1464	1222	873
	30	1524	1580	1602	1311	972
	25	1761	1765	1670	1372	1062
	20	1860	1825	1669	1401	1139
	15	1803	1761	1611	1404	1203
	10	1644	1618	1511	1381	1250
	5	1457	1447	1394	1338	1278
	0	1280	1280	1280	1280	1280
R O O M S I D E	5	1139	1150	1169	1215	1278
	10	1047	1055	1078	1142	1250
	15	982	990	1007	1069	1203
	20	931	936	947	996	1139
	25	880	884	890	924	1062
	30	828	829	832	852	972
	35	776	774	772	780	873
	40	723	719	709	706	769
	45	664	659	642	627	662
	50	600	594	569	543	556
	55	530	523	492	454	457
	60	455	448	413	370	370
	65	376	370	333	293	296
	70	292	290	255	225	232
	75	207	208	182	164	172
	80	124	128	114	106	113
	85	49	54	51	50	53
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

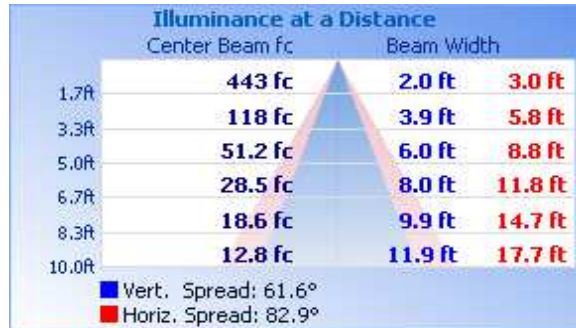


RESULTS OF TEST (cont'd)

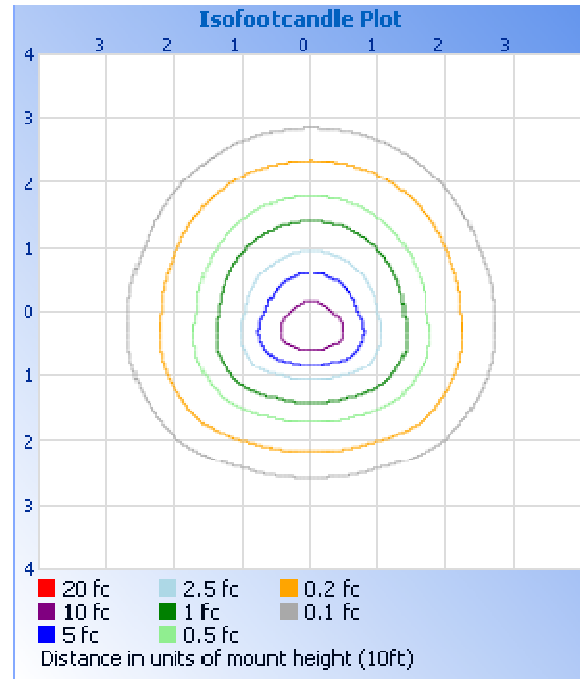
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1058	31.7
0-40	1701	50.9
0-60	2778	83.1
60-90	565.2	16.9
0-90	3344	100.0
90-180	0.0	0.0
0-180	3344	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	123.2	3.7
10-20	368.6	11.0
20-30	566.8	17.0
30-40	642.2	19.2
40-50	598.6	17.9
50-60	479.1	14.3
60-70	328.8	9.8
70-80	183.4	5.5
80-90	53.0	1.6

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.40

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:

Handwritten signature of Kellen Murakami.

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Handwritten signature of Vladimir Kozak.

Vladimir Kozak
Engineering Supervisor
Lighting Division