

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104359650

Date: June 11, 2020

REPORT NO. 104359650LAX-005C

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-MO-4-WWF

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. MO - OSRAM OTI30G2 - 613MAMP

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 Prototype sample of model number BPRO5-FLSH-LED35-MO-4-WWF. The sample was received by Intertek on June 1, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2006021315-005.

DATES OF TESTS: June 10, 2020

SUMMARY

Model No.:	BPRO5-FLSH-LED35-MO-4-WWF
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3027
Total Power (W)	22.56
Luminaire Efficacy (LPW)	134.2
Power Factor	0.987

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	06/10/20
AC Source	CW1251P	000944	VBU	VBU	06/10/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	06/10/20
Tape Measure	33-428	001491	VBU	VBU	06/10/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	06/10/20
Temp. & RH Meter	Testo 622	001910	04/15/20	04/15/21	06/10/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	06/10/20

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.

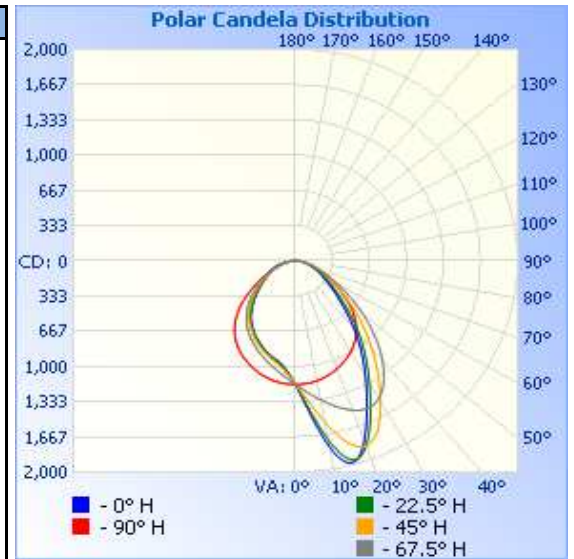
RESULTS OF TEST

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)
LAN2006021315-005	Up	120.0	190.4	22.56	0.987	3027	134.2

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	40	43	44	45	41
	80	83	86	93	94	88
	75	126	129	147	150	138
	70	169	176	212	220	196
	65	218	232	288	313	272
	60	279	304	384	442	373
	55	358	394	506	609	497
	50	465	518	664	806	631
	45	613	680	853	1014	754
	40	808	882	1062	1214	853
	35	1029	1098	1289	1386	932
	30	1260	1332	1530	1502	994
	25	1522	1598	1755	1538	1045
	20	1812	1862	1861	1502	1088
	15	1975	1946	1770	1427	1123
	10	1793	1725	1555	1338	1149
	5	1436	1405	1332	1250	1164
	0	1167	1167	1167	1167	1167
R O O M S I D E	5	1028	1033	1052	1099	1164
	10	958	964	982	1039	1149
	15	917	921	933	983	1123
	20	869	873	887	931	1088
	25	815	818	834	878	1045
	30	759	763	778	821	994
	35	695	701	718	759	932
	40	616	623	650	686	853
	45	529	536	569	606	754
	50	442	447	479	513	631
	55	367	365	388	414	497
	60	304	296	307	320	373
	65	253	238	236	240	272
	70	210	189	176	176	196
	75	166	143	124	124	138
	80	112	95	78	78	88
	85	50	43	35	36	41
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

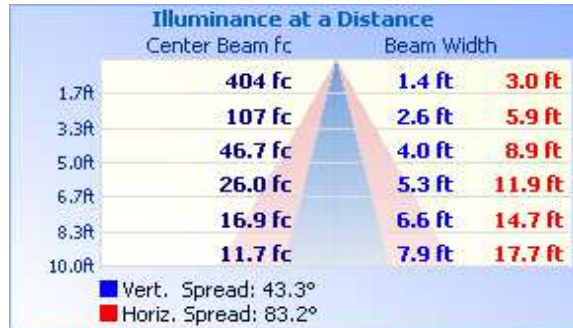


RESULTS OF TEST (cont'd)

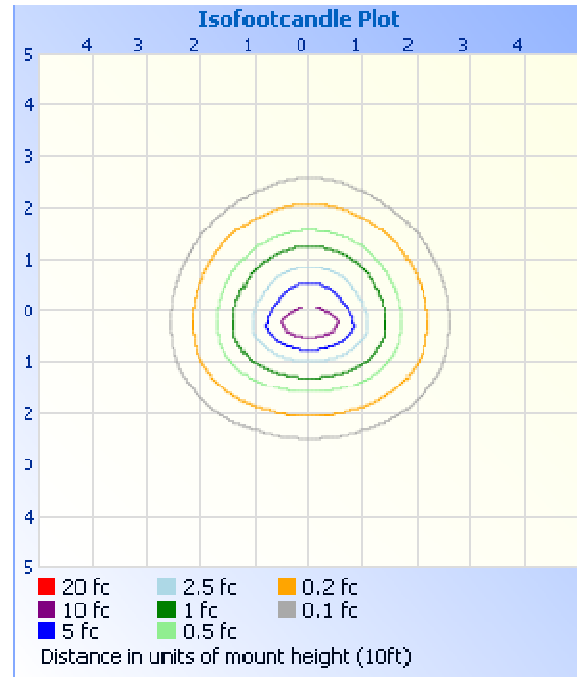
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1039	34.3
0-40	1643	54.3
0-60	2579	85.2
60-90	448.6	14.8
0-90	3027	100.0
90-180	0.0	0.0
0-180	3027	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	116.5	3.8
10-20	370.4	12.2
20-30	552.6	18.3
30-40	603.9	19.9
40-50	537.9	17.8
50-60	397.6	13.1
60-70	256.8	8.5
70-80	146.0	4.8
80-90	45.8	1.5

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.34

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