

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: September 30, 2020

REPORT NO. 104464711LAX-007

TEST OF ONE LED LUMINAIRE

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

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI20G2 - 391MAMP

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-LO-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-LO-4-WWG-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1901
Total Power (W)	15.05
Luminaire Efficacy (LPW)	126.3
Power Factor	0.989

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.

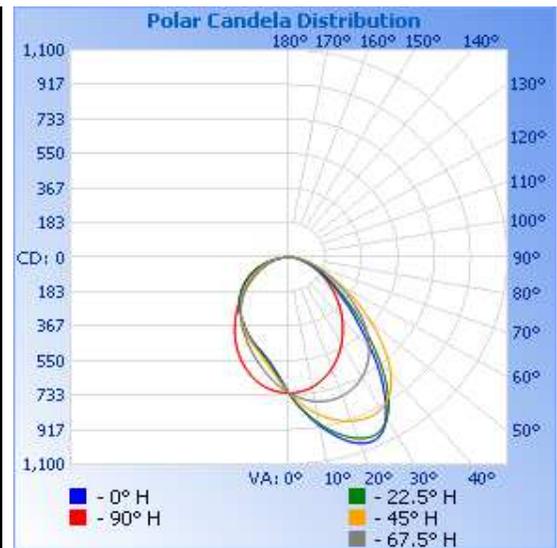
RESULTS OF TEST

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	120.0	126.8	15.05	0.989	1901	126.3

Intensity (Candlepower) Summary at 25°C - Candelas

	Angle	0	22.5	45	67.5	90
	W A L L S I D E	90	0	0	0	0
85		22	22	27	29	30
80		47	49	61	64	62
75		75	80	103	104	95
70		110	119	156	151	127
65		155	169	226	211	162
60		213	232	314	285	202
55		284	312	423	374	249
50		377	415	547	467	302
45		494	546	678	555	359
40		651	705	798	631	418
35		827	868	885	691	475
30		981	989	931	737	532
25		1059	1039	940	767	584
20		1052	1024	925	784	630
15	992	971	893	788	669	
10	910	899	846	777	698	
5	818	815	786	754	715	
	0	720	720	720	720	720
R O O M S I D E	5	626	635	647	677	715
	10	563	570	586	630	698
	15	523	528	540	582	669
	20	494	498	504	538	630
	25	466	470	474	496	584
	30	437	440	443	456	532
	35	408	409	411	417	475
	40	381	379	377	377	418
	45	351	348	341	335	359
	50	320	316	302	291	302
	55	285	281	263	244	249
	60	248	242	221	200	202
	65	210	203	180	159	162
	70	167	162	140	123	127
	75	121	120	101	90	95
80	75	76	64	59	62	
85	33	35	30	28	30	
90	0	0	0	0	0	
	Angle	180	202.5	225	247.5	270

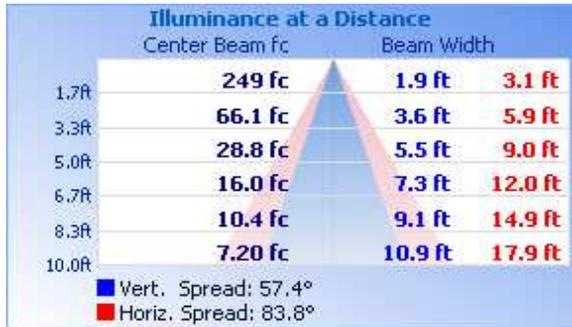


RESULTS OF TEST (cont'd)

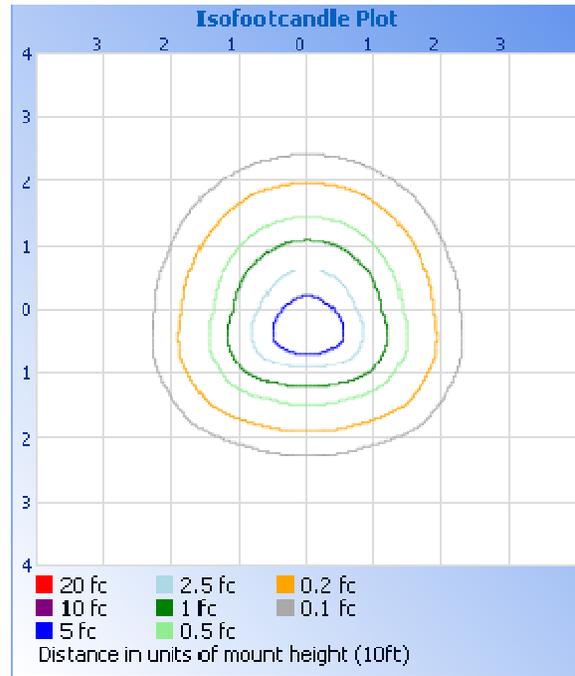
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	589.0	31.0
0-40	960.8	50.5
0-60	1579	83.0
60-90	322.3	17.0
0-90	1901	100.0
90-180	0.0	0.0
0-180	1901	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	68.6	3.6
10-20	202.6	10.7
20-30	317.8	16.7
30-40	371.8	19.6
40-50	345.8	18.2
50-60	272.4	14.3
60-70	185.8	9.8
70-80	104.9	5.5
80-90	31.6	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:

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