

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: September 30, 2020

REPORT NO. 104464711LAX-008

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-FLSH-LED35-MO-4-WWG-DM01
LED MODEL NO. LUMILEDS 2835E 9V
DRIVER MODEL NO. OSRAM OTI30G2 - 587MAMP

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

Criteria	Result
Total Lumen Output (Lumens)	2810
Total Power (W)	22.05
Luminaire Efficacy (LPW)	127.4
Power Factor	0.986

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.

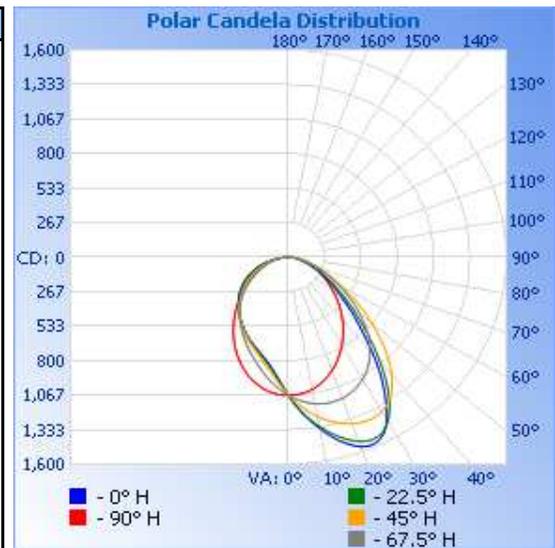
RESULTS OF TEST

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	186.5	22.05	0.986	2810	127.4

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		32	32	40	43	44
80		68	72	90	95	92
75		111	118	152	154	140
70		162	176	232	223	188
65		229	249	335	312	240
60		312	342	465	422	298
55		419	461	625	552	368
50		553	612	809	690	446
45		727	806	1004	822	531
40		959	1043	1180	934	617
35		1217	1283	1309	1023	702
30		1446	1462	1376	1089	786
25		1564	1535	1390	1135	864
20		1557	1513	1368	1159	933
15	1469	1435	1320	1165	991	
10	1347	1328	1250	1150	1034	
5	1212	1204	1161	1115	1059	
	0	1065	1065	1065	1065	1065
R O O M S I D E	5	928	939	957	1003	1059
	10	834	843	867	933	1034
	15	774	780	799	862	991
	20	730	735	746	796	933
	25	689	694	700	734	864
	30	646	649	654	674	786
	35	604	604	608	616	702
	40	562	560	558	558	617
	45	519	514	504	496	531
	50	473	466	447	430	446
	55	423	414	388	361	368
	60	368	358	328	295	298
	65	311	299	267	235	240
	70	247	239	207	182	188
	75	179	176	150	134	140
80	112	113	96	87	92	
85	49	52	45	41	44	
90	0	0	0	0	0	
	Angle	180	202.5	225	247.5	270

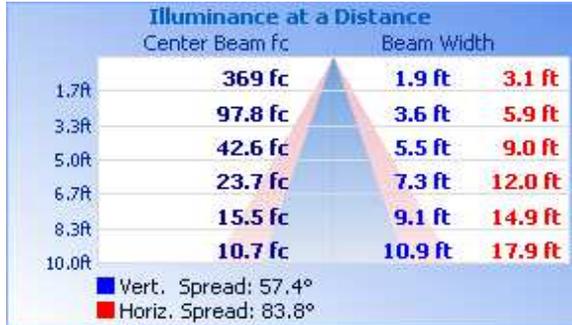


RESULTS OF TEST (cont'd)

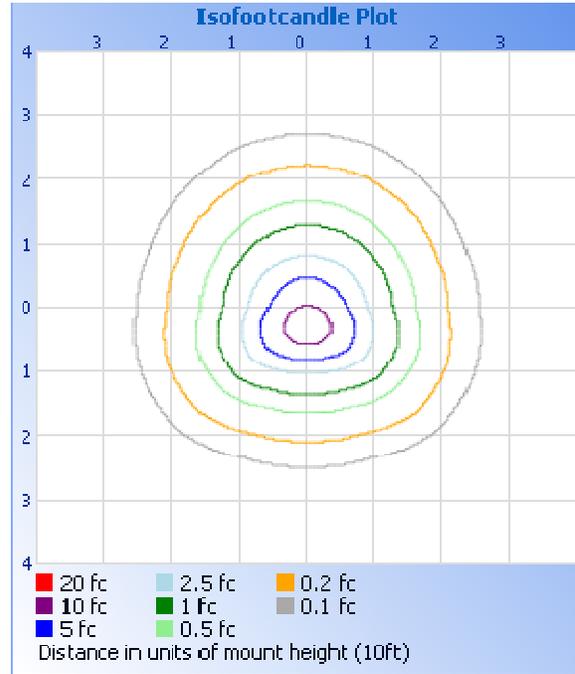
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	870.9	31.0
0-40	1420	50.5
0-60	2334	83.1
60-90	476.2	16.9
0-90	2810	100.0
90-180	0.0	0.0
0-180	2810	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	101.5	3.6
10-20	299.7	10.7
20-30	469.7	16.7
30-40	549.5	19.6
40-50	511.0	18.2
50-60	402.4	14.3
60-70	274.5	9.8
70-80	155.0	5.5
80-90	46.7	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