

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: September 30, 2020

REPORT NO. 104464711LAX-004

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-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 BPRO2-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 LAN2009290928-003.

DATES OF TESTS: September 30, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	2428
Total Power (W)	22.21
Luminaire Efficacy (LPW)	109.3
Power Factor	0.983

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.

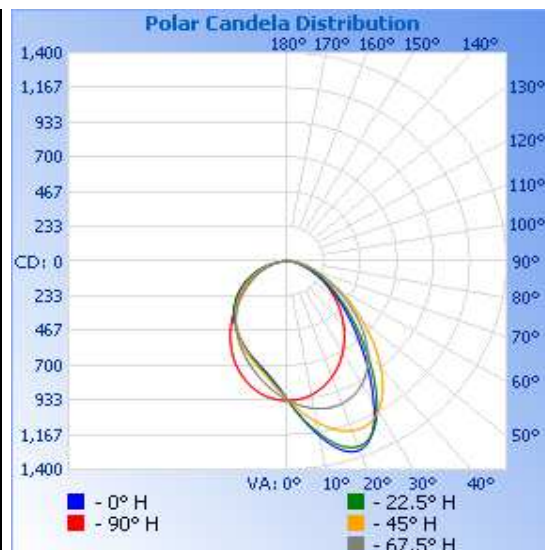
RESULTS OF TEST

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	188.3	22.21	0.983	2428	109.3

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	25	25	30	35	39
	80	56	58	73	81	82
	75	91	97	126	132	125
	70	136	146	192	191	169
	65	194	208	276	264	216
	60	265	287	377	354	269
	55	354	381	496	460	333
	50	456	491	630	578	405
	45	579	623	777	693	482
	40	725	783	928	800	560
	35	910	966	1062	887	635
	30	1107	1146	1162	953	707
	25	1280	1280	1213	997	773
	20	1350	1325	1212	1019	829
	15	1309	1280	1171	1021	876
	10	1194	1176	1100	1004	910
	5	1058	1053	1014	974	930
	0	932	932	932	932	932
R O O M S I D E	5	828	837	850	884	930
	10	762	768	785	831	910
	15	714	720	732	777	876
	20	677	681	688	724	829
	25	639	643	647	672	773
	30	602	603	605	619	707
	35	564	563	561	567	635
	40	526	523	516	513	560
	45	483	479	467	456	482
	50	436	431	414	394	405
	55	385	380	358	330	333
	60	330	325	300	268	269
	65	273	268	242	213	216
	70	212	210	185	163	169
	75	149	151	132	119	125
	80	89	92	82	77	82
	85	35	38	36	36	39
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

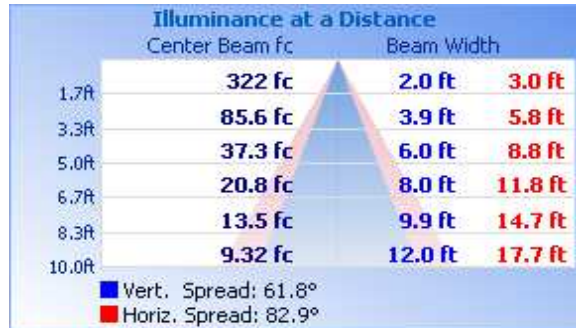


RESULTS OF TEST (cont'd)

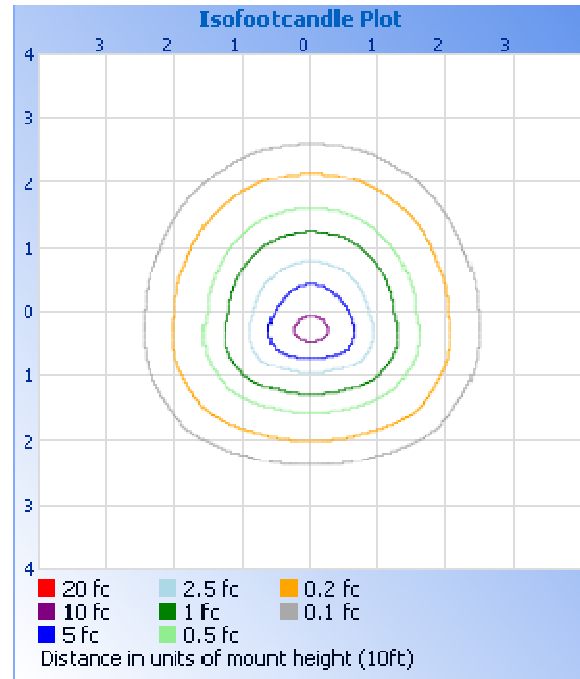
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	769.4	31.7
0-40	1236	50.9
0-60	2019	83.1
60-90	409.7	16.9
0-90	2428	100.0
90-180	0.0	0.0
0-180	2428	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	89.6	3.7
10-20	268.0	11.0
20-30	411.8	17.0
30-40	466.4	19.2
40-50	434.8	17.9
50-60	348.0	14.3
60-70	238.7	9.8
70-80	132.9	5.5
80-90	38.1	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