

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104359650

Date: June 17, 2020

REPORT NO. 104361023LAX-003C

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-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 BPRO3-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 LAN2006021315-003.

DATES OF TESTS: June 17, 2020

SUMMARY

Model No.:	BPRO3-FLSH-LED35-MO-4-WWF
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2818
Total Power (W)	22.59
Luminaire Efficacy (LPW)	124.7
Power Factor	0.984

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	06/17/20
AC Source	CW1251P	000944	VBU	VBU	06/17/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	06/17/20
Tape Measure	33-428	001491	VBU	VBU	06/17/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	06/17/20
Temp. & RH Meter	Testo 622	001910	04/15/20	04/15/21	06/17/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	06/17/20

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.

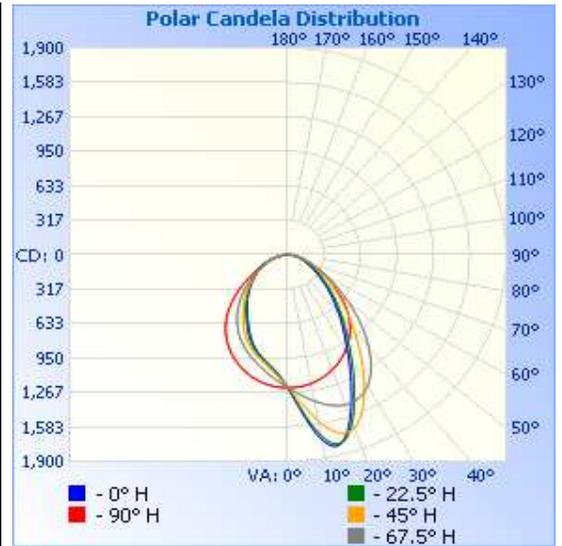
RESULTS OF TEST

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)
LAN2006021315-003	Up	120.0	191.4	22.59	0.984	2818	124.7

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		29	29	35	38	38
80		62	65	79	84	83
75		101	105	129	134	129
70		144	152	188	197	184
65		196	207	261	279	255
60		257	274	348	390	352
55		333	356	453	532	473
50		426	459	575	706	607
45		543	583	719	899	733
40		683	727	890	1093	842
35		844	898	1097	1262	932
30		1047	1111	1326	1390	1010
25		1305	1371	1546	1456	1073
20		1590	1637	1693	1466	1125
15		1794	1789	1692	1430	1168
10	1726	1689	1553	1367	1199	
5	1458	1440	1369	1293	1216	
	0	1222	1222	1222	1222	1222
R O O M S I D E	5	1088	1094	1110	1154	1216
	10	1012	1016	1035	1092	1199
	15	952	959	977	1034	1168
	20	878	891	920	977	1125
	25	788	807	850	916	1073
	30	697	715	767	847	1010
	35	618	633	678	768	932
	40	548	560	594	679	842
	45	482	492	516	583	733
	50	418	424	439	484	607
	55	356	359	365	386	473
	60	299	298	296	300	352
	65	248	242	233	226	255
	70	196	190	177	168	184
	75	142	140	126	119	129
	80	87	88	79	76	83
85	36	38	36	35	38	
90	0	0	0	0	0	
	Angle	180	202.5	225	247.5	270

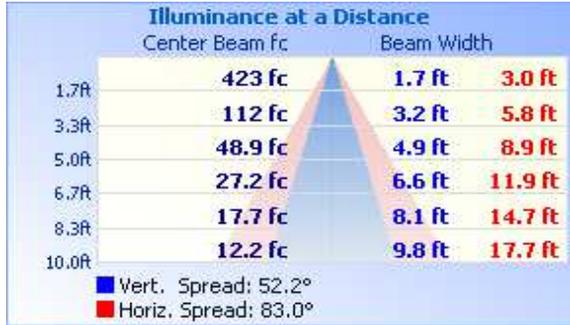


RESULTS OF TEST (cont'd)

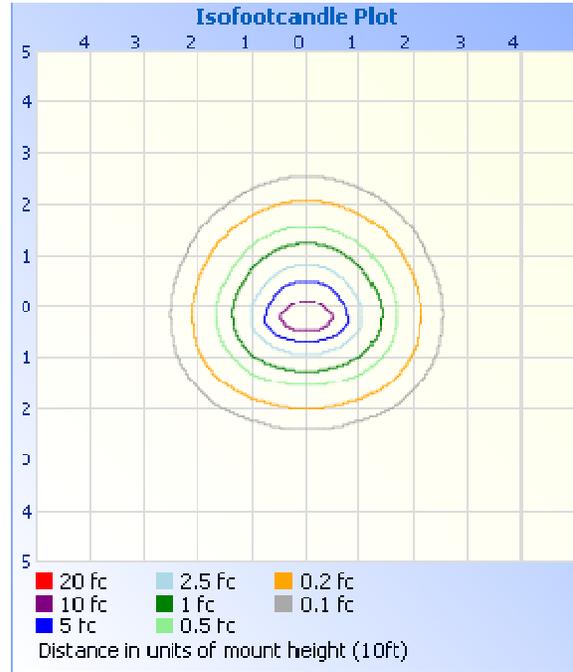
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1005	35.7
0-40	1552	55.1
0-60	2405	85.3
60-90	413.0	14.7
0-90	2818	100.0
90-180	0.0	0.0
0-180	2818	100.0

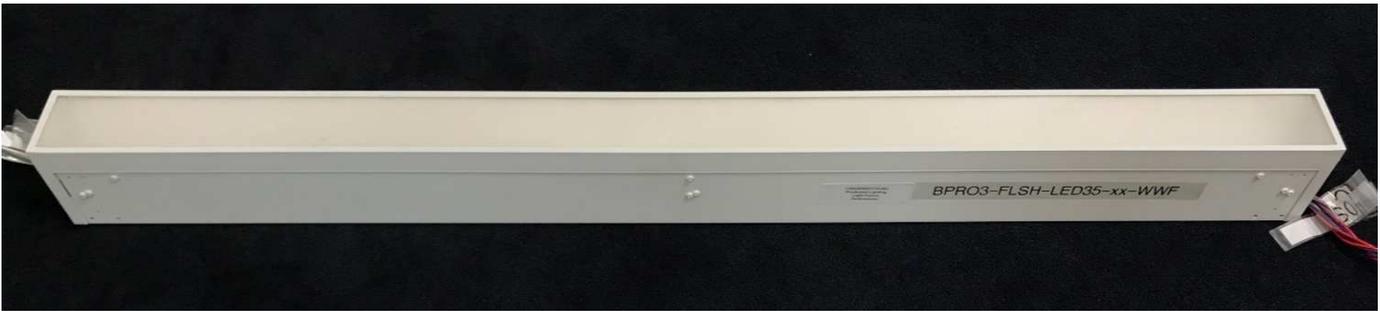
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	120.3	4.3
10-20	365.0	13.0
20-30	519.6	18.4
30-40	546.9	19.4
40-50	485.7	17.2
50-60	367.0	13.0
60-70	240.2	8.5
70-80	133.3	4.7
80-90	39.4	1.4

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.24

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:

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
Engineering Supervisor
Lighting Division