

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: October 1, 2020

REPORT NO. 104464711LAX-013

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-FLSH-LED35-SO-4-WWG-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50G2 - 832MAMP

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 BPRO4-FLSH-LED35-SO-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: October 1, 2020

SUMMARY

Model No.:	BPRO4-FLSH-LED35-SO-4-WWG-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4062
Total Power (W)	30.98
Luminaire Efficacy (LPW)	131.1
Power Factor	0.980

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/01/20
AC Source	CW1251P	000944	VBU	VBU	10/01/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/01/20
Tape Measure	33-428	001491	VBU	VBU	10/01/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	10/01/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/01/20

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.

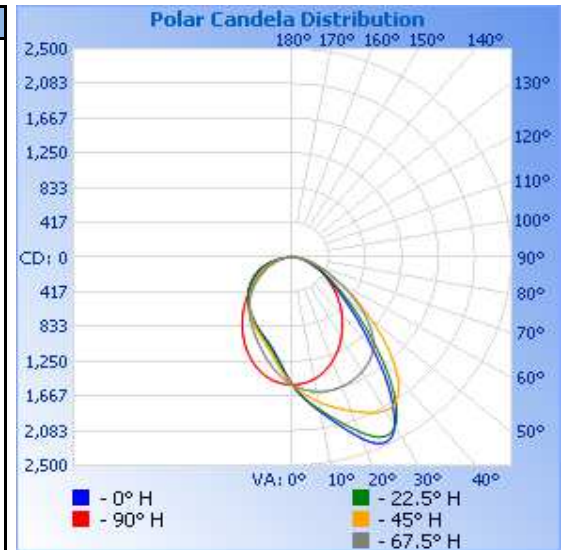
RESULTS OF TEST

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	263.3	30.98	0.980	4062	131.1

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	47	48	57	62	62
	80	100	104	127	136	130
	75	156	166	211	220	196
	70	224	241	317	323	264
	65	310	336	458	457	338
	60	420	460	645	634	423
	55	568	627	891	851	524
	50	761	853	1193	1081	636
	45	1040	1167	1541	1286	757
	40	1424	1582	1866	1434	876
	35	1926	2034	2078	1528	997
	30	2331	2343	2125	1588	1116
	25	2459	2381	2060	1628	1230
	20	2313	2226	1961	1652	1332
	15	2090	2036	1865	1656	1417
	10	1890	1867	1766	1638	1480
	5	1717	1709	1655	1595	1517
	0	1528	1528	1528	1528	1528
R O O M S I D E	5	1323	1343	1374	1440	1517
	10	1163	1181	1228	1332	1480
	15	1059	1074	1112	1220	1417
	20	992	1001	1026	1113	1332
	25	933	941	957	1017	1230
	30	877	882	893	930	1116
	35	823	823	828	849	997
	40	772	767	760	768	876
	45	718	708	687	682	757
	50	658	646	612	591	636
	55	592	578	533	497	524
	60	524	505	454	408	423
	65	452	429	372	326	338
	70	372	350	292	254	264
	75	280	266	213	188	196
	80	182	177	139	124	130
	85	87	88	68	60	62
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

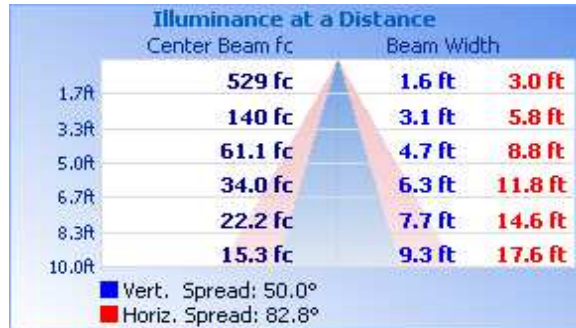


RESULTS OF TEST (cont'd)

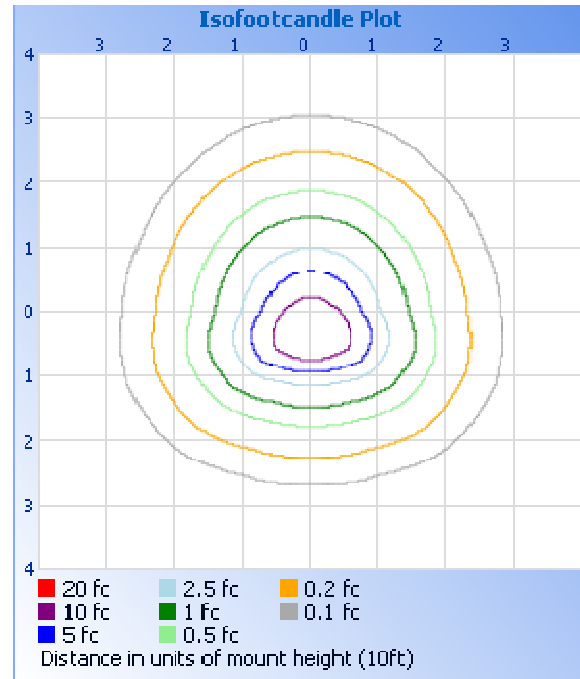
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1253	30.8
0-40	2069	50.9
0-60	3382	83.3
60-90	680.0	16.7
0-90	4062	100.0
90-180	0.0	0.0
0-180	4062	100.0

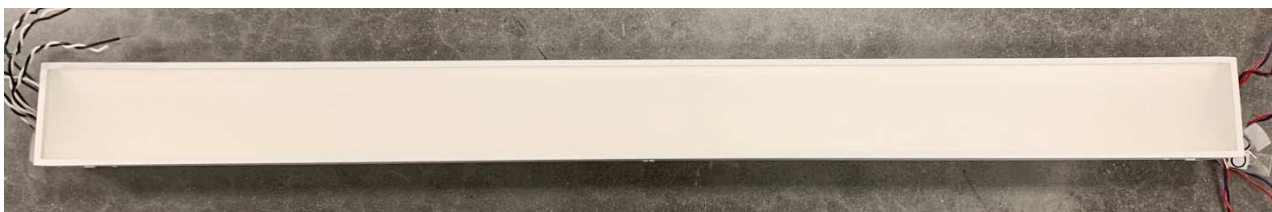
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	144.4	3.6
10-20	423.9	10.4
20-30	684.5	16.8
30-40	816.4	20.1
40-50	743.1	18.3
50-60	570.2	14.0
60-70	385.8	9.5
70-80	222.6	5.5
80-90	71.5	1.8

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.60
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.44

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