

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: September 30, 2020

REPORT NO. 104464711LAX-006

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-HO-4-WWG-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50G2 - 1077MAMP

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

Criteria	Result
Total Lumen Output (Lumens)	4198
Total Power (W)	40.70
Luminaire Efficacy (LPW)	103.1
Power Factor	0.985

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.

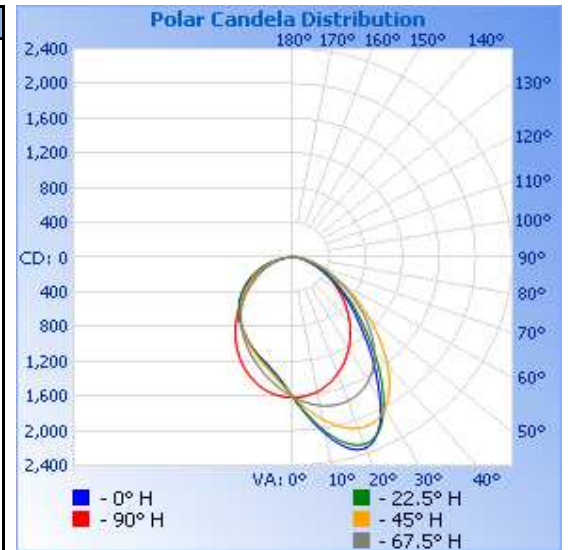
RESULTS OF TEST

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	344.2	40.70	0.985	4198	103.1

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	44	43	52	62	66
	80	96	101	128	141	141
	75	158	168	218	227	216
	70	234	253	333	330	291
	65	334	361	477	455	372
	60	458	495	652	611	464
	55	608	658	859	797	573
	50	787	849	1092	999	697
	45	994	1078	1346	1201	830
	40	1253	1354	1606	1384	965
	35	1568	1671	1840	1534	1095
	30	1912	1984	2012	1648	1220
	25	2210	2216	2098	1723	1332
	20	2336	2292	2096	1761	1430
	15	2269	2214	2023	1763	1510
	10	2069	2034	1898	1735	1570
	5	1834	1819	1751	1681	1605
	0	1609	1609	1609	1609	1609
R O O M S I D E	5	1433	1445	1467	1526	1605
	10	1316	1325	1353	1435	1570
	15	1235	1243	1264	1342	1510
	20	1169	1175	1188	1251	1430
	25	1105	1110	1117	1161	1332
	30	1040	1041	1045	1070	1220
	35	976	972	969	980	1095
	40	910	903	891	887	965
	45	836	828	806	788	830
	50	755	746	714	681	697
	55	666	656	618	571	573
	60	573	562	518	464	464
	65	474	464	418	368	372
	70	369	364	320	283	291
	75	261	262	228	206	216
	80	157	161	143	133	141
	85	63	69	64	63	66
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

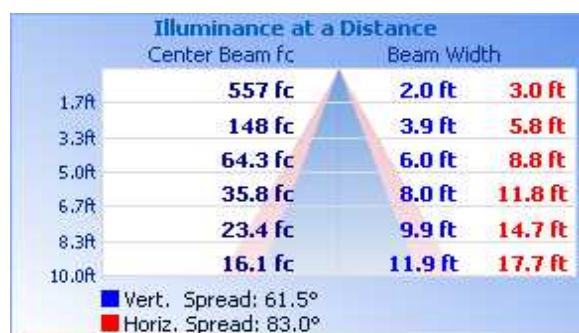


RESULTS OF TEST (cont'd)

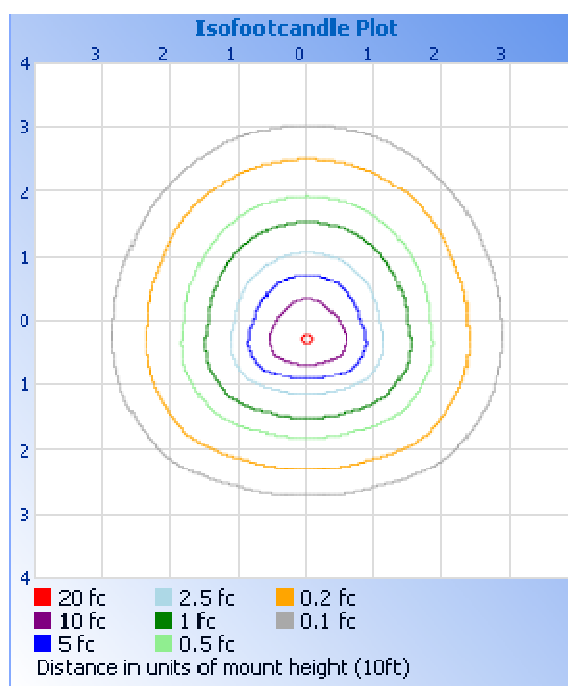
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1330	31.7
0-40	2136	50.9
0-60	3489	83.1
60-90	709.5	16.9
0-90	4198	100.0
90-180	0.0	0.0
0-180	4198	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	154.7	3.7
10-20	463.0	11.0
20-30	711.8	17.0
30-40	806.3	19.2
40-50	751.6	17.9
50-60	601.3	14.3
60-70	412.6	9.8
70-80	230.3	5.5
80-90	66.6	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