

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 12, 2020

REPORT NO. 104473769LAX-014

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-LO-4-WGZ-DM01
LED MODEL NO. LUMILEDS 2835E 9V
DRIVER MODEL NO. OSRAM OTI20G2 - 391MAMP

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 BPRO5-FLSH-LED35-LO-4-WGZ-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 LAN2009290928-002.

DATES OF TESTS: October 12, 2020

SUMMARY

Model No.:	BPRO5-FLSH-LED35-LO-4-WGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2061
Total Power (W)	15.08
Luminaire Efficacy (LPW)	136.7
Power Factor	0.990

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBV	VBV	10/12/20
AC Source	CW1251P	000944	VBV	VBV	10/12/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/12/20
Tape Measure	33-428	001491	VBV	VBV	10/12/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/12/20

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.

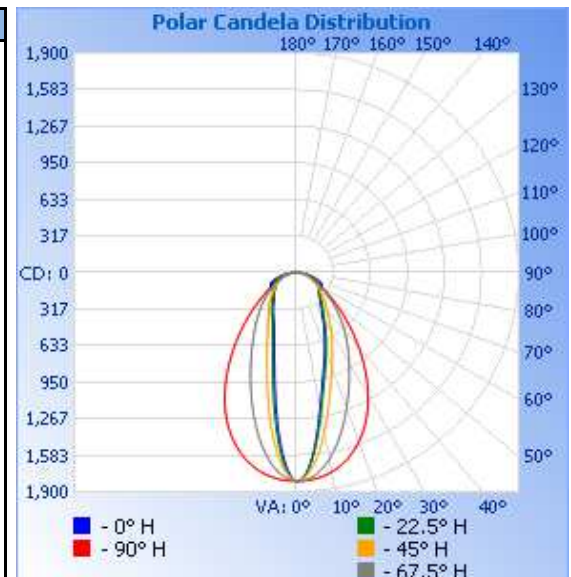
RESULTS OF TEST

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)
LAN2009290928-002	Up	120.0	127.0	15.08	0.990	2061	136.7

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	49	47	35	29	31
	80	92	90	67	62	66
	75	144	137	99	96	102
	70	196	178	128	133	140
	65	235	205	158	179	188
	60	252	219	190	237	254
	55	254	230	228	311	345
	50	260	250	275	403	471
	45	281	283	332	511	630
	40	319	330	402	631	819
	35	374	394	490	761	1022
	30	452	481	600	902	1226
	25	566	600	728	1065	1409
	20	711	746	886	1252	1559
	15	890	930	1100	1452	1674
	10	1174	1219	1390	1636	1752
	5	1590	1606	1676	1765	1794
	0	1804	1804	1804	1804	1804
R O O M S I D E	5	1513	1558	1630	1735	1794
	10	1048	1122	1294	1572	1752
	15	726	786	968	1355	1674
	20	554	592	733	1130	1559
	25	462	485	582	927	1409
	30	400	417	484	762	1226
	35	348	363	415	629	1022
	40	303	315	360	523	819
	45	269	274	311	433	630
	50	247	243	265	354	471
	55	242	223	224	283	345
	60	246	212	189	222	254
	65	241	205	158	172	188
	70	211	186	129	131	140
	75	159	150	100	95	102
	80	103	102	69	62	66
	85	54	55	37	30	31
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

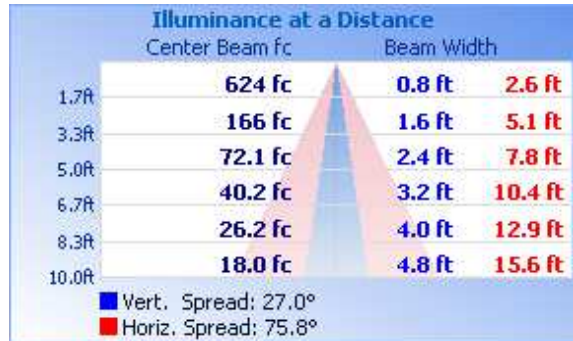


RESULTS OF TEST (cont'd)

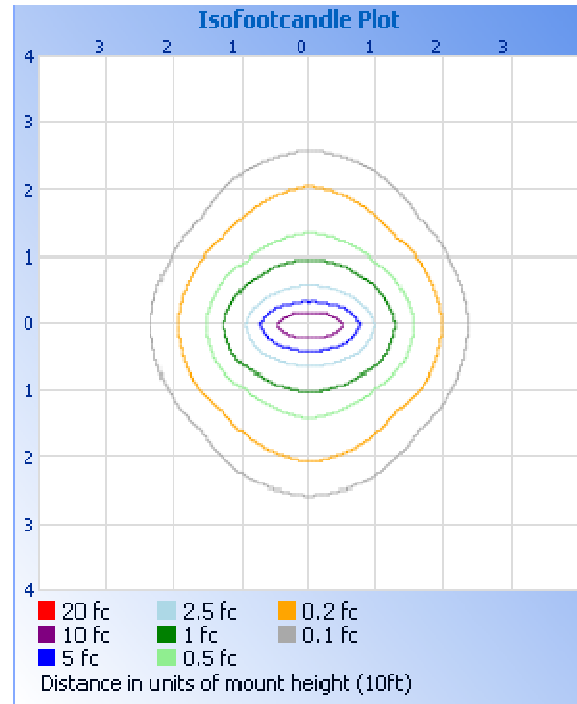
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	830.2	40.3
0-40	1177	57.1
0-60	1708	82.9
60-90	352.1	17.1
0-90	2061	100.0
90-180	0.0	0.0
0-180	2061	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	149.6	7.3
10-20	317.6	15.4
20-30	363.0	17.6
30-40	347.2	16.8
40-50	295.3	14.3
50-60	235.8	11.4
60-70	185.8	9.0
70-80	122.3	5.9
80-90	44.1	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.70

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