

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104484038

Date: October 21, 2020

REPORT NO. 104484038LAX-002

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-LO-4-MGZ-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 BPRO2-FLSH-LED35-LO-4-MGZ-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: October 21, 2020

SUMMARY

Model No.:	BPRO2-FLSH-LED35-LO-4-MGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1722
Total Power (W)	15.12
Luminaire Efficacy (LPW)	113.9
Power Factor	0.989

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/21/20
AC Source	CW1251P	000944	VBU	VBU	10/21/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/21/20
Tape Measure	33-428	001491	VBU	VBU	10/21/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/21/20
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	10/21/20

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.

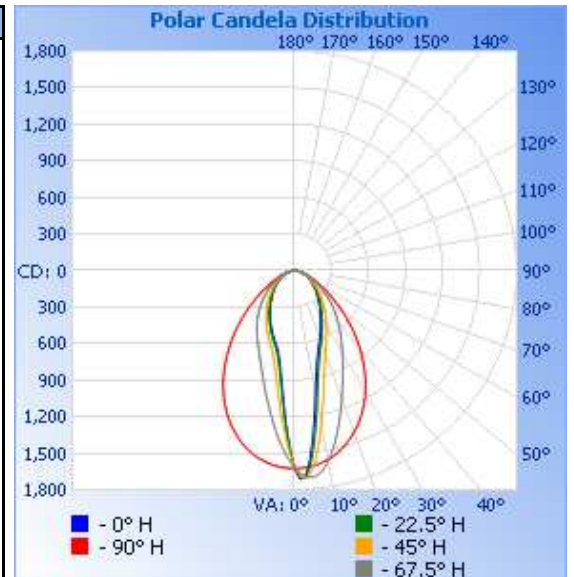
RESULTS OF TEST

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	127.4	15.12	0.989	1722	113.9

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	15	17	18	22	24
	80	35	37	40	47	51
	75	58	61	65	75	82
	70	83	86	93	109	119
	65	112	116	125	153	171
	60	143	148	162	210	248
	55	177	183	203	281	355
	50	214	223	251	362	493
	45	256	267	304	453	652
	40	302	317	366	548	820
	35	358	375	437	654	989
	30	424	446	520	777	1150
	25	505	531	616	928	1293
	20	601	630	733	1121	1412
	15	726	770	928	1354	1506
	10	990	1066	1262	1583	1573
	5	1514	1564	1640	1701	1611
	0	1608	1608	1608	1608	1608
R O O M S I D E	5	1051	1081	1198	1399	1611
	10	720	748	866	1160	1573
	15	606	620	689	955	1506
	20	532	545	598	802	1412
	25	459	473	526	692	1293
	30	394	406	457	605	1150
	35	337	348	392	528	989
	40	288	296	334	452	820
	45	244	250	281	380	652
	50	204	208	233	310	493
	55	168	170	190	245	355
	60	136	137	151	187	248
	65	108	107	116	139	171
	70	81	80	86	101	119
	75	56	56	59	70	82
	80	33	33	36	43	51
	85	13	13	14	19	24
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

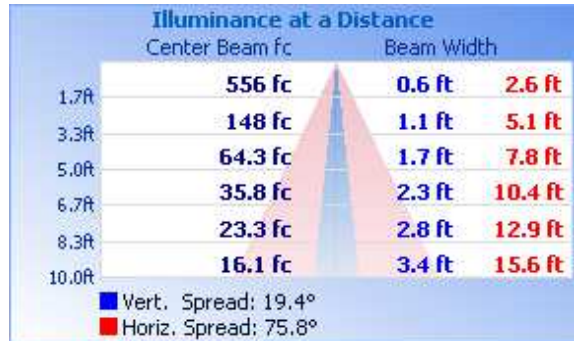


RESULTS OF TEST (cont'd)

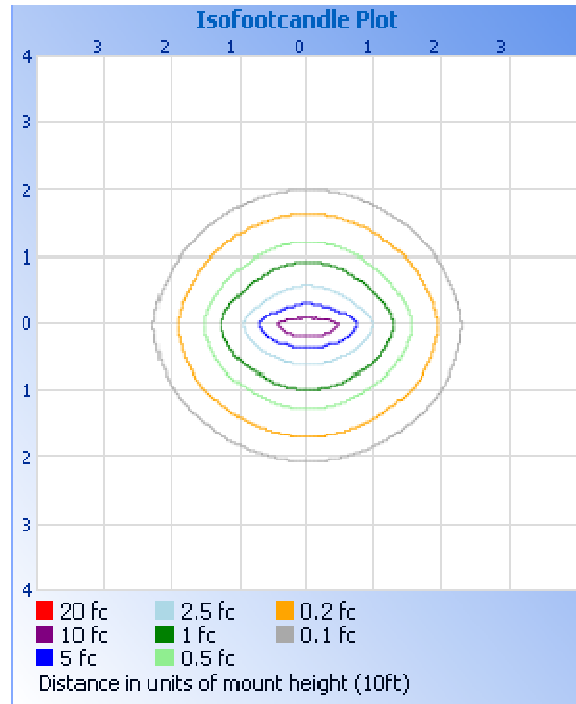
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	708.7	41.2
0-40	1027	59.6
0-60	1503	87.3
60-90	219.0	12.7
0-90	1722	100.0
90-180	0.0	0.0
0-180	1722	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	126.9	7.4
10-20	263.5	15.3
20-30	318.4	18.5
30-40	318.3	18.5
40-50	273.7	15.9
50-60	202.3	11.7
60-70	129.5	7.5
70-80	69.6	4.0
80-90	19.9	1.2

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	1.10
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:

A handwritten signature in black ink, appearing to read "Kellen Murakami".

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read "Vladimir Kozak".

Vladimir Kozak
Engineering Supervisor
Lighting Division