

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 8, 2020

REPORT NO. 104473769LAX-002

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-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 BPRO2-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 LAN2009290928-003.

DATES OF TESTS: October 8, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	1711
Total Power (W)	15.13
Luminaire Efficacy (LPW)	113.1
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	10/08/20
AC Source	CW1251P	000944	VBU	VBU	10/08/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/08/20
Tape Measure	33-428	001491	VBU	VBU	10/08/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/08/20

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.

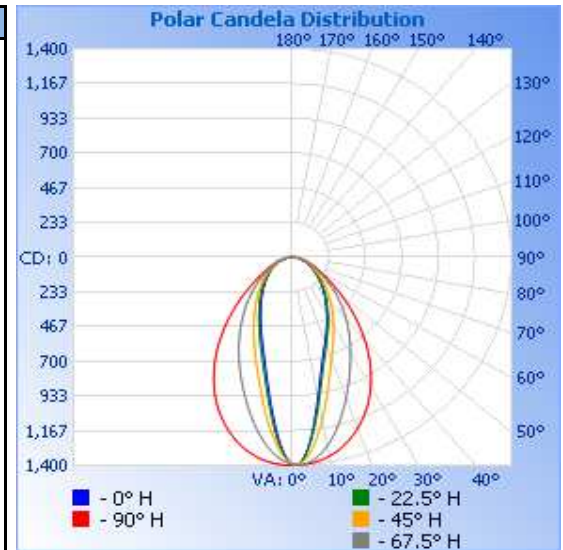
RESULTS OF TEST

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	127.5	15.13	0.989	1711	113.1

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	16	16	18	22	26
	80	38	38	42	49	55
	75	62	62	67	76	86
	70	87	88	94	108	120
	65	115	116	126	147	163
	60	147	148	162	198	224
	55	182	184	205	264	312
	50	222	225	255	344	428
	45	266	272	312	434	568
	40	317	326	376	531	717
	35	374	387	447	633	865
	30	441	457	527	743	1002
	25	519	537	617	867	1122
	20	611	632	730	1005	1222
	15	734	763	889	1153	1302
	10	948	979	1105	1287	1358
	5	1256	1266	1316	1377	1390
	0	1391	1391	1391	1391	1391
R O O M S I D E	5	1171	1199	1248	1329	1390
	10	889	925	1030	1210	1358
	15	698	732	837	1068	1302
	20	574	601	692	928	1222
	25	481	504	582	800	1122
	30	407	426	490	683	1002
	35	347	362	413	577	865
	40	296	308	349	482	717
	45	252	262	293	394	568
	50	213	220	243	314	428
	55	180	183	198	244	312
	60	150	151	160	187	224
	65	123	122	125	142	163
	70	95	95	95	106	120
	75	68	69	69	76	86
	80	42	44	44	49	55
	85	17	19	20	23	26
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

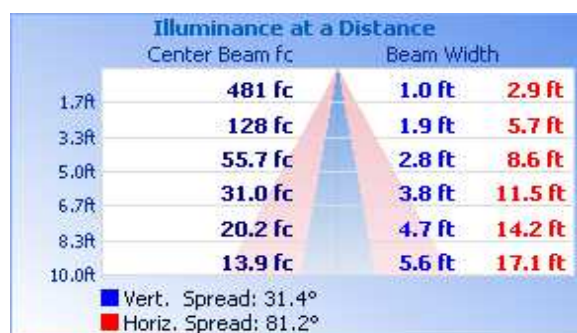


RESULTS OF TEST (cont'd)

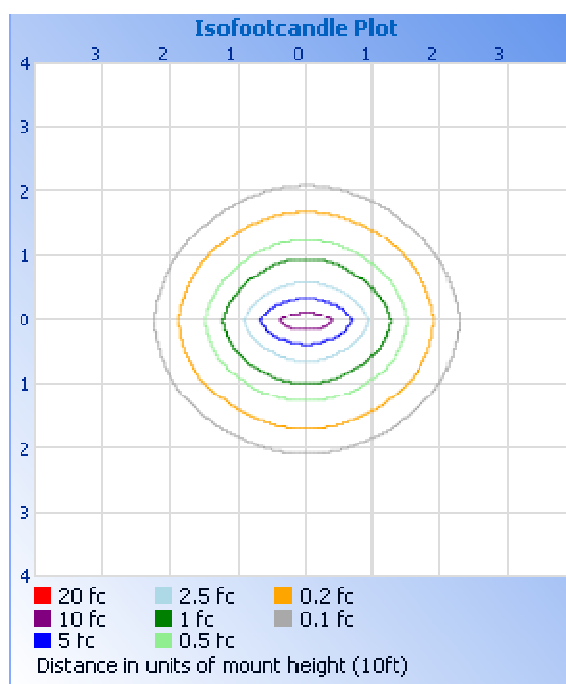
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	696.2	40.7
0-40	1012	59.2
0-60	1481	86.5
60-90	230.2	13.5
0-90	1711	100.0
90-180	0.0	0.0
0-180	1711	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	117.0	6.8
10-20	261.5	15.3
20-30	317.8	18.6
30-40	316.2	18.5
40-50	269.6	15.8
50-60	199.2	11.6
60-70	132.1	7.7
70-80	75.5	4.4
80-90	22.6	1.3

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.80

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