

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 9, 2020

REPORT NO. 104473769LAX-005

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-HO-4-WGZ-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-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 9, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	4367
Total Power (W)	40.74
Luminaire Efficacy (LPW)	107.2
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	10/09/20
AC Source	CW1251P	000944	VBU	VBU	10/09/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/09/20
Tape Measure	33-428	001491	VBU	VBU	10/09/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/09/20

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.

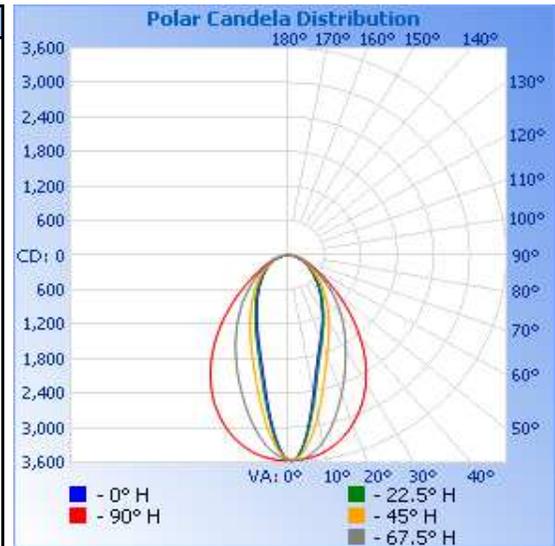
RESULTS OF TEST

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	344.5	40.74	0.985	4367	107.2

Intensity (Candlepower) Summary at 25°C - Candelas

	Angle	0	22.5	45	67.5	90
	W A L L S I D E	90	0	0	0	0
85		40	39	45	56	67
80		95	95	106	124	142
75		155	156	169	195	219
70		220	221	239	276	306
65		291	294	320	376	416
60		371	375	413	505	572
55		462	468	522	672	796
50		561	572	648	876	1096
45		677	692	793	1108	1456
40		804	829	957	1356	1837
35		954	985	1141	1617	2213
30		1122	1163	1343	1899	2561
25		1325	1369	1575	2216	2868
20		1554	1612	1864	2572	3120
15	1871	1946	2272	2948	3323	
10	2410	2505	2825	3291	3466	
5	3203	3239	3364	3519	3547	
	0	3554	3554	3554	3554	3554
R O O M S I D E	5	2990	3052	3189	3392	3547
	10	2264	2361	2623	3086	3466
	15	1783	1864	2134	2720	3323
	20	1466	1534	1766	2362	3120
	25	1230	1285	1484	2036	2868
	30	1041	1086	1249	1741	2561
	35	886	923	1055	1473	2213
	40	756	787	890	1229	1837
	45	642	666	746	1004	1456
	50	545	561	620	802	1096
	55	459	468	507	622	796
	60	385	385	407	476	572
	65	315	312	320	361	416
	70	246	245	244	271	306
	75	176	178	176	195	219
80	108	113	113	127	142	
85	46	50	53	60	67	
90	0	0	0	0	0	
	Angle	180	202.5	225	247.5	270

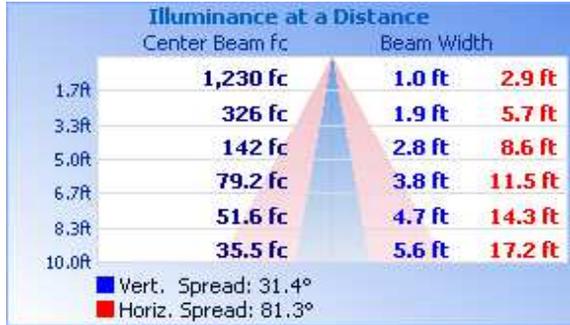


RESULTS OF TEST (cont'd)

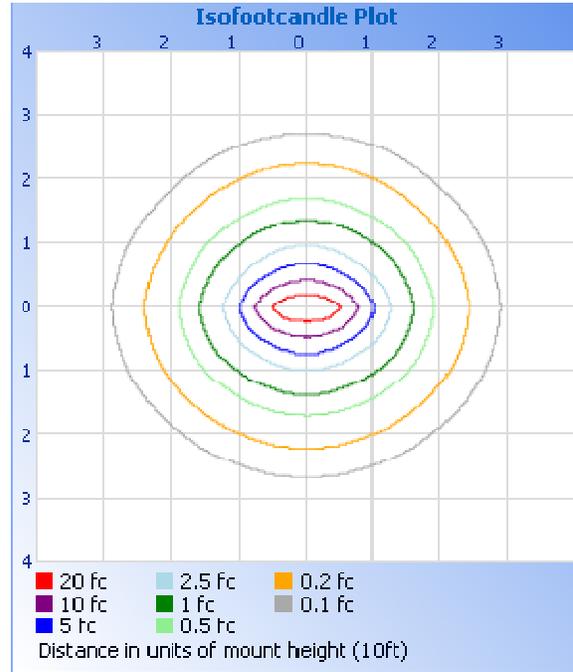
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1777	40.7
0-40	2584	59.2
0-60	3780	86.6
60-90	587.4	13.4
0-90	4367	100.0
90-180	0.0	0.0
0-180	4367	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	298.7	6.8
10-20	667.2	15.3
20-30	810.9	18.6
30-40	807.0	18.5
40-50	688.1	15.8
50-60	508.0	11.6
60-70	336.9	7.7
70-80	192.8	4.4
80-90	57.8	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". The signature is written in a cursive style.

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read "Vladimir Kozak". The signature is written in a cursive style.

Vladimir Kozak
Engineering Supervisor
Lighting Division