

# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104484038

Date: October 23, 2020

REPORT NO. 104484038LAX-014

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-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 LAN2009290928-002.

DATES OF TESTS: October 22, 2020

## SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	2037
Total Power (W)	15.08
Luminaire Efficacy (LPW)	135.1
Power Factor	0.990

## EQUIPMENT LIST

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

## 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.

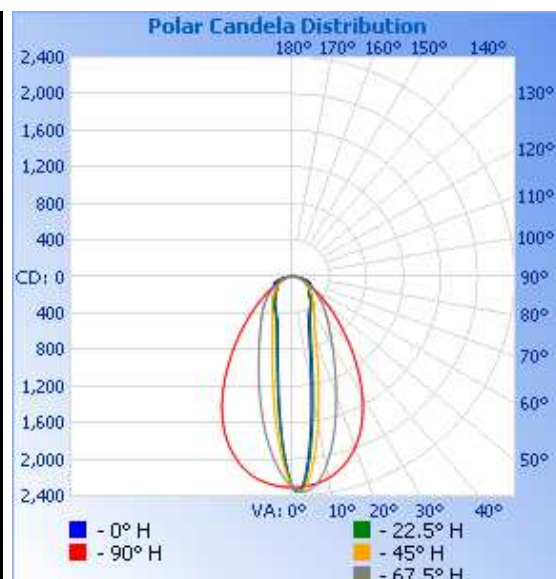
## RESULTS OF TEST

### 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	2037	135.1

### 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	52	53	32	27	28
	80	101	99	62	57	60
	75	155	141	89	91	95
	70	197	168	116	131	136
	65	217	181	145	181	189
	60	220	192	178	241	265
	55	222	208	216	313	374
	50	235	231	257	392	522
	45	259	264	301	480	714
	40	293	305	348	578	953
	35	336	349	400	698	1226
	30	383	398	466	859	1514
	25	440	461	565	1082	1773
	20	526	564	739	1385	1984
	15	713	788	1064	1748	2139
	10	1169	1285	1598	2104	2240
	5	1982	2053	2187	2332	2291
	0	2296	2296	2296	2296	2296
R O O M  S I D E	5	1541	1586	1772	2052	2291
	10	902	962	1208	1706	2240
	15	612	650	831	1358	2139
	20	488	509	621	1066	1984
	25	423	435	505	851	1773
	30	376	385	432	698	1514
	35	332	342	380	588	1226
	40	286	295	336	501	953
	45	250	254	292	426	714
	50	223	220	248	357	522
	55	208	195	208	291	374
	60	207	179	173	229	265
	65	210	171	141	174	189
	70	198	161	112	128	136
	75	162	137	86	90	95
	80	109	98	59	56	60
	85	57	53	30	26	28
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

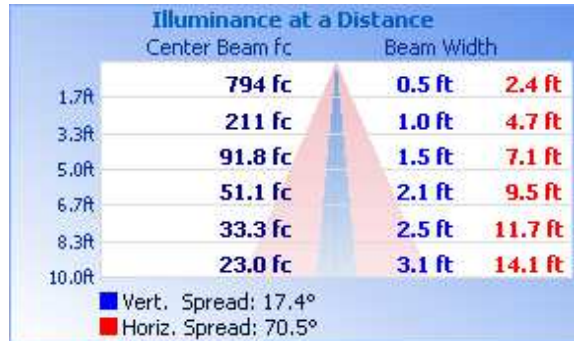


RESULTS OF TEST (cont'd)

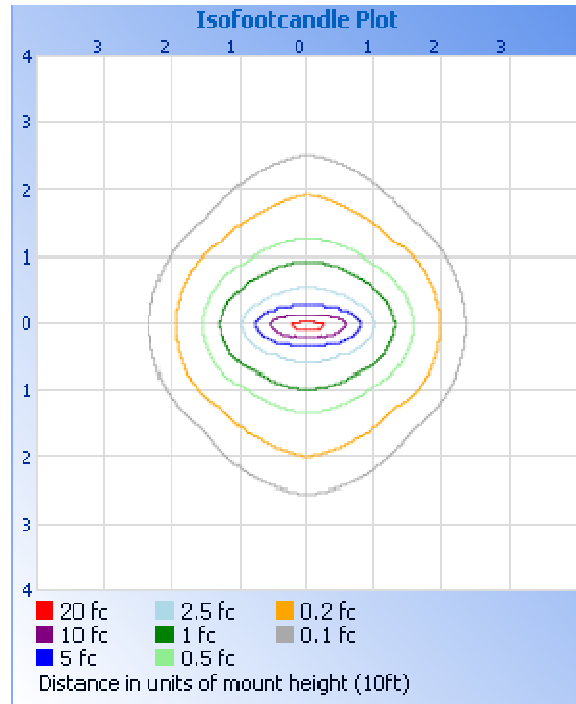
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	851.3	41.8
0-40	1189	58.4
0-60	1705	83.7
60-90	332.1	16.3
0-90	2037	100.0
90-180	0.0	0.0
0-180	2037	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	174.9	8.6
10-20	324.5	15.9
20-30	351.9	17.3
30-40	337.8	16.6
40-50	288.9	14.2
50-60	227.2	11.2
60-70	173.3	8.5
70-80	116.3	5.7
80-90	42.5	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.52

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