

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 12, 2020

REPORT NO. 104473769LAX-015

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-MO-4-WGZ-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI30G2 - 587MAMP

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-MO-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-MO-4-WGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3040
Total Power (W)	22.10
Luminaire Efficacy (LPW)	137.6
Power Factor	0.986

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/12/20
AC Source	CW1251P	000944	VBU	VBU	10/12/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/12/20
Tape Measure	33-428	001491	VBU	VBU	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.

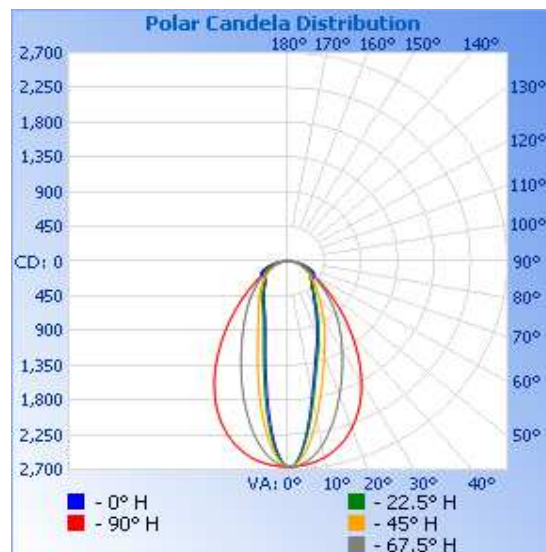
## RESULTS OF TEST

### 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	186.8	22.10	0.986	3040	137.6

### 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	72	69	51	42	47
	80	135	133	99	91	98
	75	212	202	145	141	150
	70	288	262	189	197	208
	65	346	302	232	263	278
	60	370	322	280	349	374
	55	373	339	336	459	510
	50	383	369	405	596	696
	45	414	417	489	756	934
	40	470	486	592	934	1210
	35	551	581	723	1126	1510
	30	668	710	886	1337	1811
	25	834	886	1077	1577	2080
	20	1050	1102	1308	1855	2302
	15	1314	1374	1627	2152	2470
	10	1738	1806	2052	2421	2584
	5	2347	2376	2479	2609	2646
	0	2661	2661	2661	2661	2661
R O O M  S I D E	5	2230	2295	2400	2556	2646
	10	1545	1647	1908	2311	2584
	15	1072	1158	1426	1990	2470
	20	818	873	1081	1658	2302
	25	682	715	858	1361	2080
	30	590	614	713	1118	1811
	35	513	534	611	924	1510
	40	447	464	530	769	1210
	45	396	404	458	637	934
	50	365	358	390	520	696
	55	357	328	330	416	510
	60	364	314	278	326	374
	65	357	303	232	252	278
	70	312	275	190	192	208
	75	237	222	148	140	150
	80	154	152	102	91	98
	85	81	82	54	44	47
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

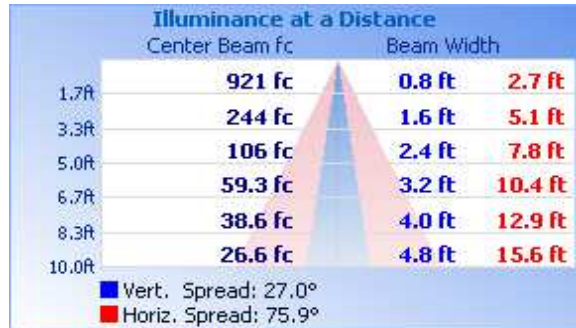


## RESULTS OF TEST (cont'd)

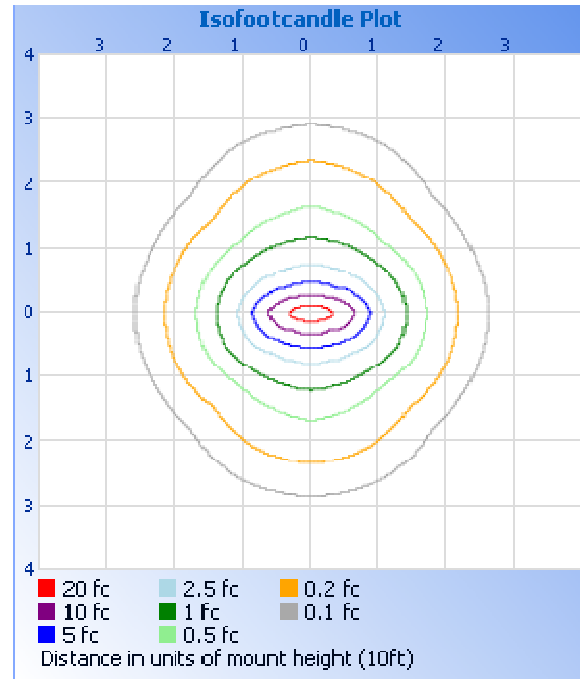
### Illumination Plots

Mounting Height: 10 ft.

#### Illuminance - Cone of Light



#### Isoillumination Plot



#### Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1225	40.3
0-40	1738	57.1
0-60	2521	82.9
60-90	519.5	17.1
0-90	3040	100.0
90-180	0.0	0.0
0-180	3040	100.0

#### Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	220.8	7.3
10-20	468.6	15.4
20-30	535.8	17.6
30-40	512.3	16.8
40-50	435.6	14.3
50-60	347.6	11.4
60-70	274.0	9.0
70-80	180.5	5.9
80-90	65.1	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