

# REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 12, 2020

REPORT NO. 104473769LAX-017

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-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 LAN2009290928-002.

DATES OF TESTS: October 12, 2020

## SUMMARY

Model No.:	BPRO5-FLSH-LED35-HO-4-WGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	5312
Total Power (W)	40.75
Luminaire Efficacy (LPW)	130.4
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.

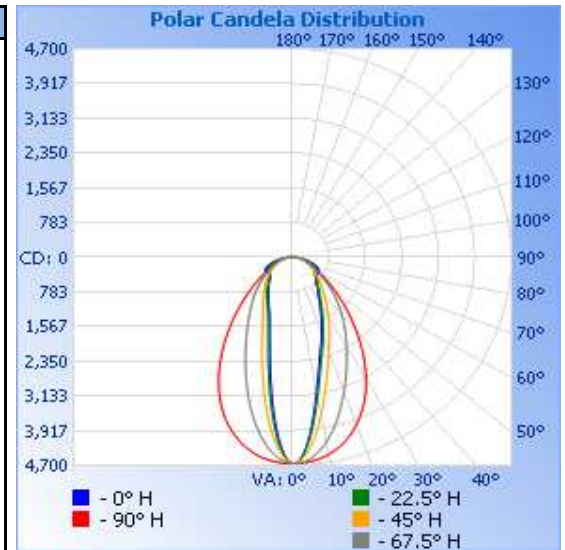
## RESULTS OF TEST

### 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	344.3	40.75	0.986	5312	130.4

### 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	124	120	89	75	81
	80	236	231	173	158	170
	75	370	352	254	247	262
	70	504	458	330	343	362
	65	605	528	406	460	485
	60	647	563	490	610	654
	55	652	593	588	803	891
	50	669	644	708	1041	1217
	45	724	728	854	1322	1627
	40	820	850	1038	1631	2112
	35	966	1016	1264	1966	2637
	30	1170	1241	1548	2332	3164
	25	1461	1548	1881	2751	3635
	20	1834	1925	2287	3236	4021
	15	2290	2401	2842	3753	4317
	10	3023	3149	3584	4224	4516
	5	4090	4148	4327	4554	4623
	0	4649	4649	4649	4649	4649
R O O M  S I D E	5	3899	4009	4196	4466	4623
	10	2702	2886	3329	4043	4516
	15	1873	2023	2498	3486	4317
	20	1430	1528	1889	2905	4021
	25	1193	1251	1501	2384	3635
	30	1032	1075	1247	1956	3164
	35	898	935	1069	1619	2637
	40	781	812	927	1345	2112
	45	692	706	800	1116	1627
	50	637	626	681	910	1217
	55	624	573	576	729	891
	60	636	548	485	572	654
	65	623	529	406	443	485
	70	543	481	333	337	362
	75	412	387	259	245	262
	80	266	264	179	160	170
	85	141	142	94	78	81
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

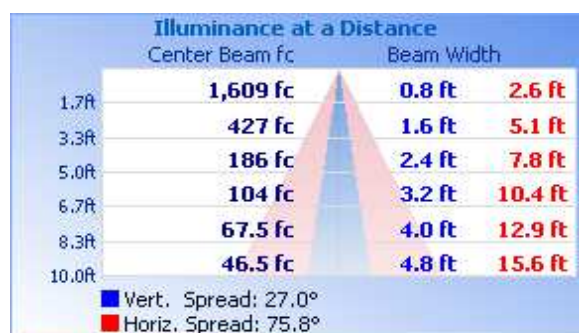


## RESULTS OF TEST (cont'd)

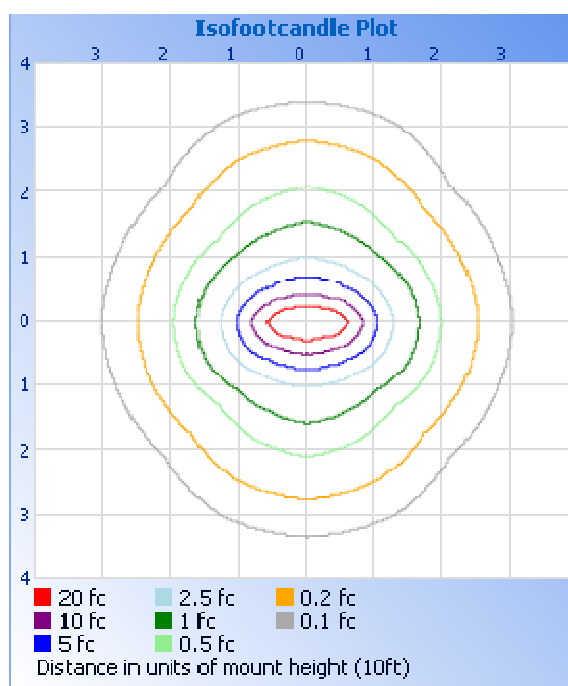
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2141	40.3
0-40	3036	57.2
0-60	4405	82.9
60-90	907.2	17.1
0-90	5312	100.0
90-180	0.0	0.0
0-180	5312	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	385.6	7.3
10-20	818.8	15.4
20-30	936.3	17.6
30-40	895.4	16.9
40-50	761.3	14.3
50-60	607.5	11.4
60-70	478.6	9.0
70-80	315.1	5.9
80-90	113.5	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