

# REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001G

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-SO-4-TMW-SAL-SC-UNV-X1-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50W G2

RENDERED TO

PRUDENTIAL LIGHTING

1774 E 21ST STREET

LOS ANGELES, CA 90058

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00978421-1 .

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 Prototype sample of model number BPRO5-FLSH-LED35-SO-4-TMW-SAL-SC-UNV-X1-DM01. The sample was received by Intertek on July 10, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN1907101436-001 .

DATES OF TESTS: July 15, 2019

## SUMMARY

Model No.:	BPRO5-FLSH-LED35-SO-4-TMW-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3966
Total Power (W)	32.03
Luminaire Efficacy (LPW)	123.8
Power Factor	0.979

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	07/15/19
AC Source	CW1251P	000944	VBU	VBU	07/15/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/15/19
Tape Measure	33-428	001491	VBU	VBU	07/15/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/15/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/15/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/15/19

## 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.

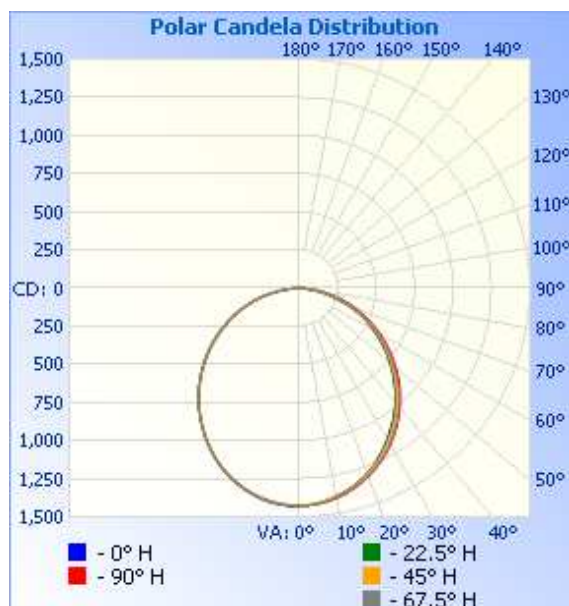
## RESULTS OF TEST

### 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)
LAN1907101436-001	Up	120.1	272.8	32.03	0.979	3966	123.8

### Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1426	1426	1426	1426	1426
5	1414	1415	1411	1418	1419
10	1385	1387	1386	1396	1398
15	1345	1347	1347	1359	1362
20	1291	1292	1294	1308	1314
25	1221	1225	1229	1246	1255
30	1143	1147	1155	1174	1185
35	1060	1064	1072	1093	1105
40	971	973	982	1004	1017
45	874	876	886	908	924
50	773	775	785	806	824
55	670	672	682	700	718
60	563	566	575	593	610
65	457	459	468	484	502
70	349	352	361	376	393
75	236	241	255	269	286
80	125	129	146	166	180
85	36	39	47	65	79
90	0	0	0	0	0



## RESULTS OF TEST (cont'd)

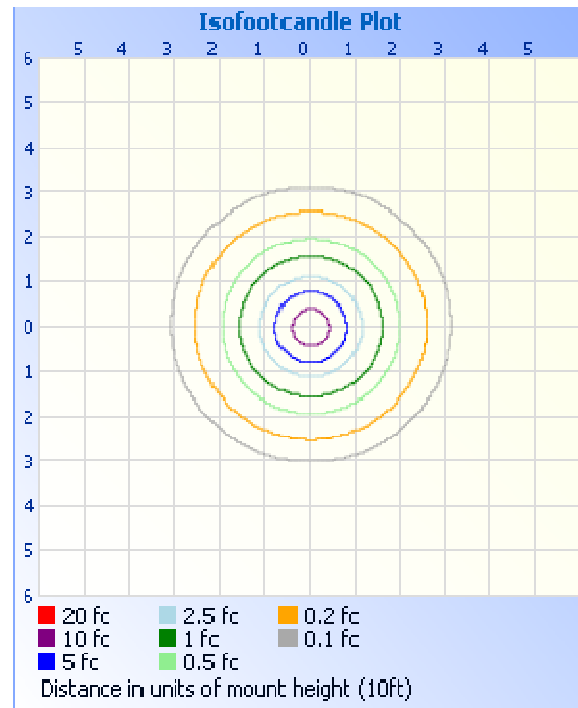
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1092	27.5
0-40	1775	44.8
0-60	3107	78.4
60-90	858.4	21.6
0-90	3966	100.0
90-180	0.0	0.0
0-180	3966	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	134.6	3.4
10-20	383.0	9.7
20-30	574.0	14.5
30-40	683.3	17.2
40-50	701.6	17.7
50-60	630.8	15.9
60-70	487.1	12.3
70-80	291.7	7.4
80-90	79.7	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36

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:



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Technician  
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak  
Engineering Supervisor  
Lighting Division