

## REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001B

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-MO-4-TMW-BTW-SC-UNV-X1-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI30W 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-MO-4-TMW-BTW-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 12, 2019

## SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	2975
Total Power (W)	22.74
Luminaire Efficacy (LPW)	130.8
Power Factor	0.984

## EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	07/12/19
AC Source	CW1251P	000944	VBU	VBU	07/12/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/12/19
Tape Measure	33-428	001491	VBU	VBU	07/12/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/12/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/12/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/12/19

## 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.

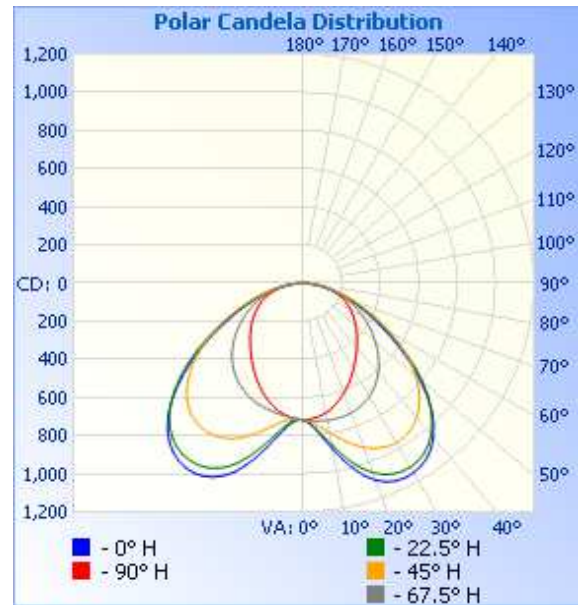
## RESULTS OF TEST

### 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	119.9	192.7	22.74	0.984	2975	130.8

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

Angle	0	22.5	45	67.5	90
0	716	716	716	716	716
5	774	768	744	725	709
10	886	864	798	730	688
15	1008	972	861	731	655
20	1100	1057	916	724	614
25	1143	1104	953	710	568
30	1147	1114	966	686	520
35	1120	1092	955	651	475
40	1052	1035	918	606	432
45	944	941	854	553	394
50	796	812	765	492	356
55	637	661	654	429	321
60	486	513	529	364	285
65	360	380	405	300	248
70	256	271	294	237	207
75	170	179	199	176	162
80	94	99	116	115	112
85	33	34	42	52	57
90	0	0	0	0	0



## RESULTS OF TEST (cont'd)

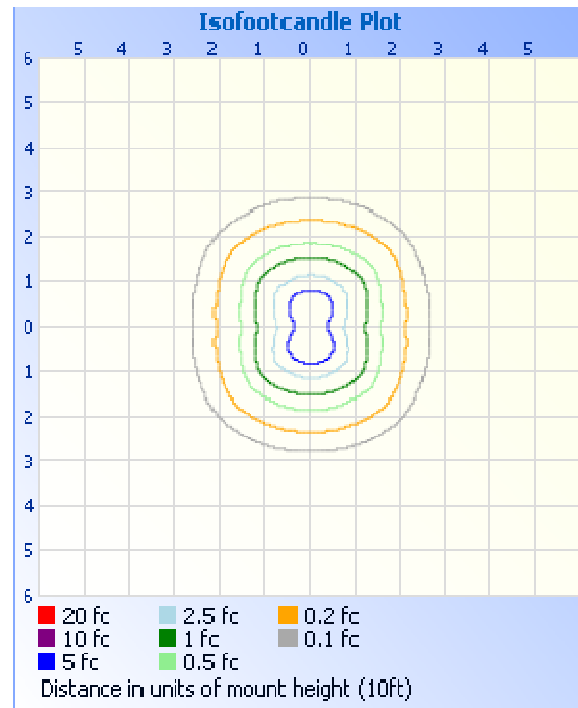
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	714.6	24.0
0-40	1256	42.2
0-60	2352	79.0
60-90	623.7	21.0
0-90	2975	100.0
90-180	0.0	0.0
0-180	2975	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	71.2	2.4
10-20	234.3	7.9
20-30	409.0	13.7
30-40	541.3	18.2
40-50	584.7	19.7
50-60	511.2	17.2
60-70	361.2	12.1
70-80	203.3	6.8
80-90	59.2	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.80

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:



Gregory V. Rosandich  
Technician  
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak  
Engineering Supervisor  
Lighting Division