

## REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 19, 2019

REPORT NO. 104013131LAX-002D

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-FLSH-LED35-HO-4-TMW-BTW-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 BPRO3-FLSH-LED35-HO-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 LAN1907101436-002.

DATES OF TESTS: July 18, 2019

## SUMMARY

Model No.:	BPRO3-FLSH-LED35-HO-4-TMW-BTW-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4795
Total Power (W)	41.74
Luminaire Efficacy (LPW)	114.9
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	07/18/19
AC Source	CW1251P	000944	VBU	VBU	07/18/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/18/19
Tape Measure	33-428	001491	VBU	VBU	07/18/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/18/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/18/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/18/19

## 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.

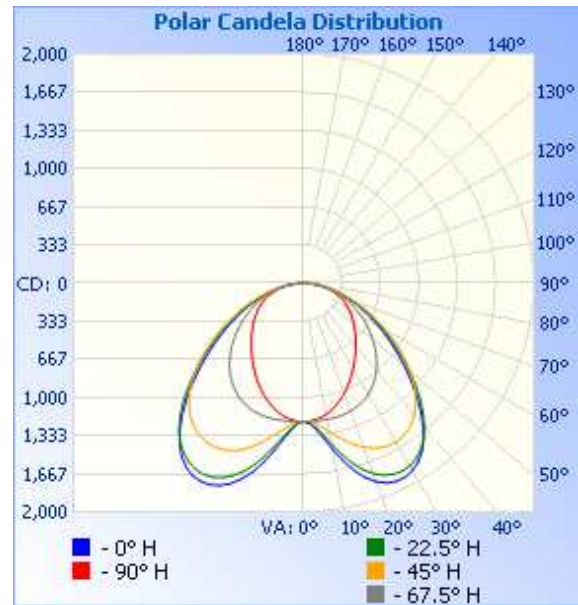
## RESULTS OF TEST

### 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)
LAN1907101436-002	Up	120.1	352.4	41.74	0.986	4795	114.9

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

Angle	0	22.5	45	67.5	90
0	1207	1207	1207	1207	1207
5	1285	1270	1233	1208	1198
10	1480	1436	1320	1208	1161
15	1696	1626	1430	1204	1102
20	1847	1772	1525	1191	1028
25	1910	1844	1587	1165	946
30	1891	1844	1604	1123	862
35	1794	1776	1575	1063	781
40	1617	1631	1498	985	706
45	1389	1431	1374	894	637
50	1156	1207	1212	792	574
55	944	990	1026	686	514
60	755	792	833	580	455
65	588	615	647	478	394
70	440	460	480	379	328
75	310	323	336	284	257
80	192	200	209	188	177
85	85	87	94	93	91
90	0	0	0	0	0



## RESULTS OF TEST (cont'd)

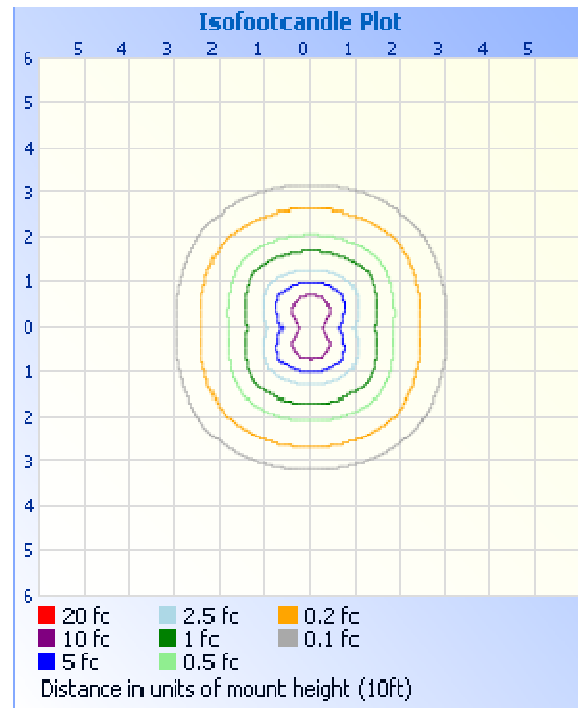
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1223	25.5
0-40	2119	44.2
0-60	3813	79.5
60-90	982.0	20.5
0-90	4795	100.0
90-180	0.0	0.0
0-180	4795	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	121.4	2.5
10-20	403.8	8.4
20-30	697.9	14.6
30-40	896.1	18.7
40-50	917.9	19.1
50-60	775.8	16.2
60-70	557.0	11.6
70-80	325.0	6.8
80-90	100.0	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.84
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.74

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  
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