

## REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001H

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-HO-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-HO-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-HO-4-TMW-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4976
Total Power (W)	41.70
Luminaire Efficacy (LPW)	119.3
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	07/15/19
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.

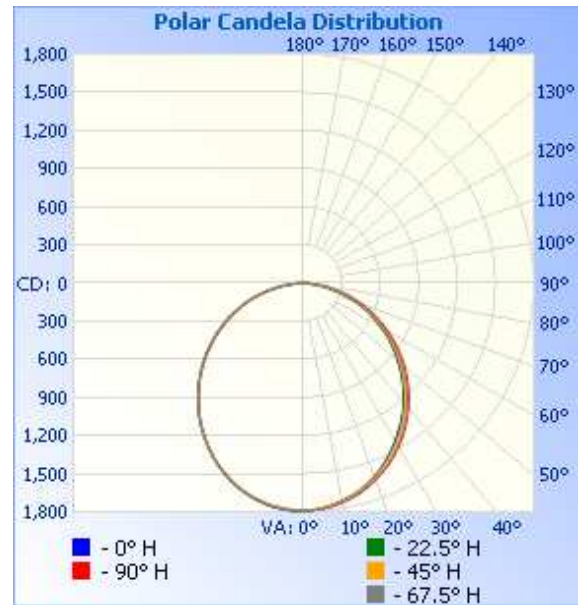
## RESULTS OF TEST

### 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	352.6	41.70	0.986	4976	119.3

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

Angle	0	22.5	45	67.5	90
0	1789	1789	1789	1789	1789
5	1774	1775	1771	1779	1780
10	1737	1740	1740	1751	1754
15	1687	1690	1690	1705	1709
20	1619	1621	1623	1641	1649
25	1531	1536	1542	1564	1574
30	1433	1439	1449	1473	1486
35	1329	1335	1346	1372	1386
40	1217	1221	1234	1260	1277
45	1096	1099	1112	1138	1158
50	969	972	986	1011	1033
55	841	842	856	880	902
60	706	709	723	744	766
65	573	574	588	607	629
70	437	441	454	471	493
75	296	301	321	338	357
80	155	161	183	208	225
85	46	48	59	82	98
90	0	0	0	0	0



## RESULTS OF TEST (cont'd)

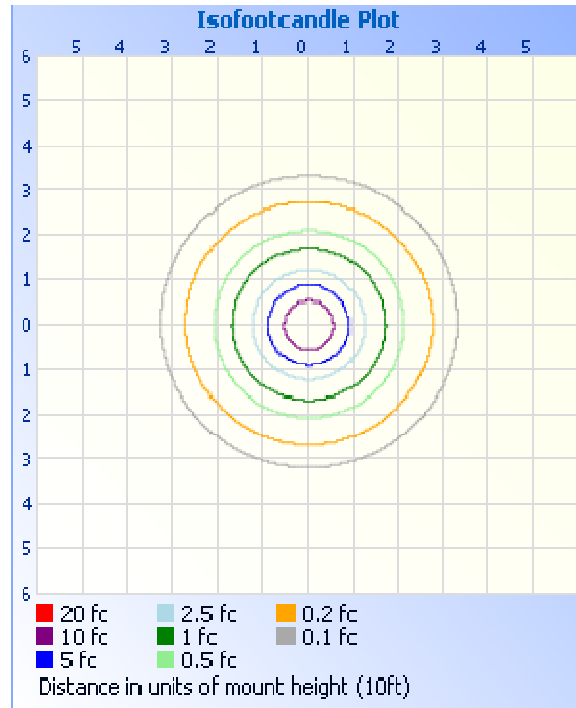
### Illumination Plots

Mounting Height: 10 ft.

#### Illuminance - Cone of Light



#### Isoillumination Plot



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

Zone	Lumens	% Luminaire
0-30	1370	27.5
0-40	2227	44.8
0-60	3899	78.4
60-90	1077	21.6
0-90	4976	100.0
90-180	0.0	0.0
0-180	4976	100.0

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

Zone	Lumens	% Luminaire
0-10	168.9	3.4
10-20	480.5	9.7
20-30	720.1	14.5
30-40	857.4	17.2
40-50	880.3	17.7
50-60	791.8	15.9
60-70	611.1	12.3
70-80	365.8	7.4
80-90	100.1	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:



Gregory V. Rosandich  
Technician  
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak  
Engineering Supervisor  
Lighting Division