

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104037618

Date: August 2, 2019

REPORT NO. 104037618LAX-001

TEST OF ONE LED LUMINAIRE

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

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50W G2 - 1350 MAMP

RENDERED TO

PRUDENTIAL LIGHTING

1774 EAST 21ST

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.

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-VHO-4-TMW-BTW-SC-UNV-X1-DM01. The sample was received by Intertek on July 19, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN190719136-003A.

DATES OF TESTS: July 31, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	6150
Total Power (W)	52.06
Luminaire Efficacy (LPW)	118.1
Power Factor	0.988

EQUIPMENT LIST

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

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.

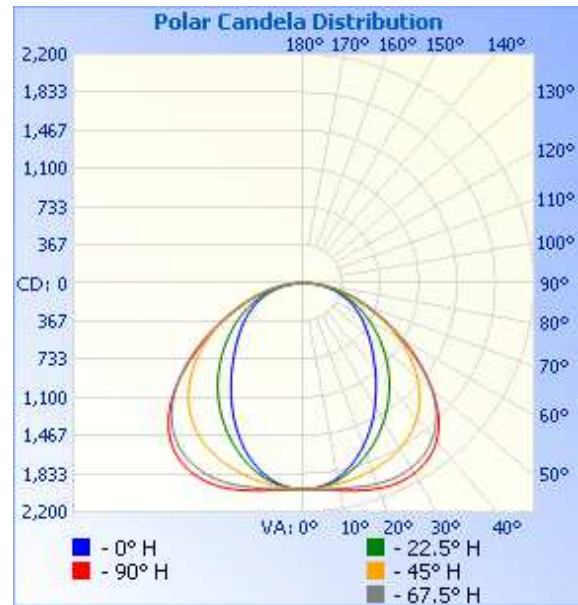
RESULTS OF TEST

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)
LAN190719136-003A	Up	120.1	439.1	52.06	0.988	6150	118.1

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1984	1984	1984	1984	1984
5	1962	1969	1973	1992	1996
10	1899	1920	1957	2005	2022
15	1799	1846	1938	2029	2062
20	1669	1754	1915	2054	2101
25	1523	1648	1884	2066	2122
30	1364	1532	1838	2052	2114
35	1209	1408	1774	2009	2072
40	1062	1277	1688	1927	1979
45	934	1141	1572	1795	1828
50	819	1001	1422	1607	1612
55	718	864	1243	1374	1351
60	624	730	1045	1119	1079
65	533	602	839	874	835
70	438	479	641	658	626
75	339	359	459	472	453
80	230	238	294	308	298
85	116	117	151	170	168
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

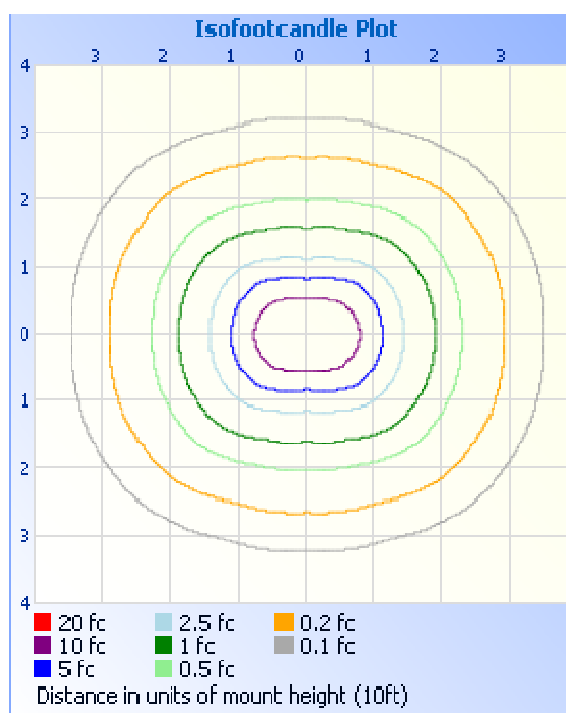
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1591	25.9
0-40	2658	43.2
0-60	4795	78.0
60-90	1355	22.0
0-90	6150	100.0
90-180	0.0	0.0
0-180	6150	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	188.3	3.1
10-20	547.8	8.9
20-30	855.2	13.9
30-40	1067	17.3
40-50	1130	18.4
50-60	1007	16.4
60-70	745.4	12.1
70-80	448.9	7.3
80-90	160.3	2.6

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.50

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:

A handwritten signature in black ink, appearing to read 'Erik Linares'.

Erik Linares
Associate Engineer
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Vladimir Kozak'.

Vladimir Kozak
Engineering Supervisor
Lighting Division