

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001C

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-SO-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 BPRO5-FLSH-LED35-SO-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 15, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	4111
Total Power (W)	32.06
Luminaire Efficacy (LPW)	128.2
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.

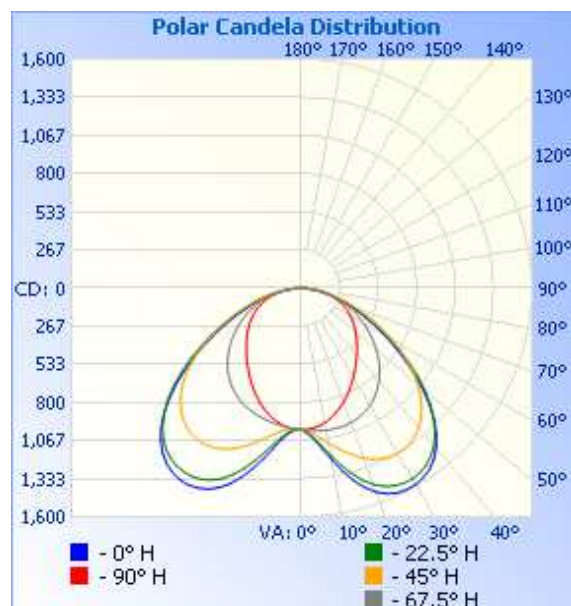
RESULTS OF TEST

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	272.7	32.06	0.979	4111	128.2

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	990	990	990	990	990
5	1068	1060	1029	1001	980
10	1222	1193	1103	1009	952
15	1391	1342	1189	1010	906
20	1518	1460	1266	1001	849
25	1579	1525	1316	981	785
30	1585	1539	1335	948	720
35	1549	1510	1320	900	656
40	1454	1432	1269	838	597
45	1305	1301	1181	764	543
50	1101	1123	1059	680	493
55	882	916	904	592	443
60	673	709	733	503	394
65	498	526	560	414	342
70	356	374	406	328	286
75	236	248	275	243	224
80	131	137	160	158	155
85	47	48	58	72	79
90	0	0	0	0	0

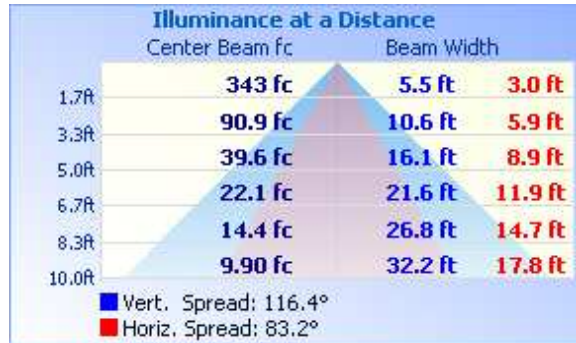


RESULTS OF TEST (cont'd)

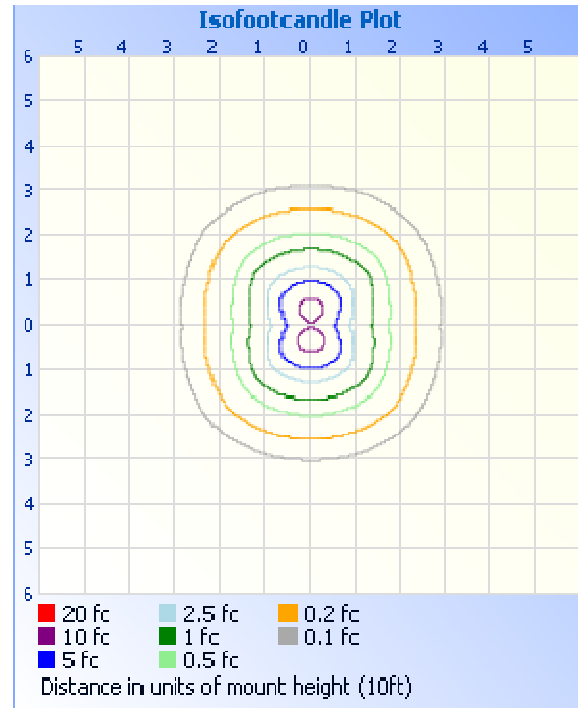
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	987.4	24.0
0-40	1735	42.2
0-60	3250	79.0
60-90	861.4	21.0
0-90	4111	100.0
90-180	0.0	0.0
0-180	4111	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	98.5	2.4
10-20	323.7	7.9
20-30	565.2	13.7
30-40	748.0	18.2
40-50	807.8	19.6
50-60	706.5	17.2
60-70	499.0	12.1
70-80	280.7	6.8
80-90	81.7	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:



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Technician
Lighting Division

Attachment: None

Report Reviewed By:



Vladimir Kozak
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