

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001D

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-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 LAN1907101436-001 .

DATES OF TESTS: July 15, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	5195
Total Power (W)	41.70
Luminaire Efficacy (LPW)	124.6
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.

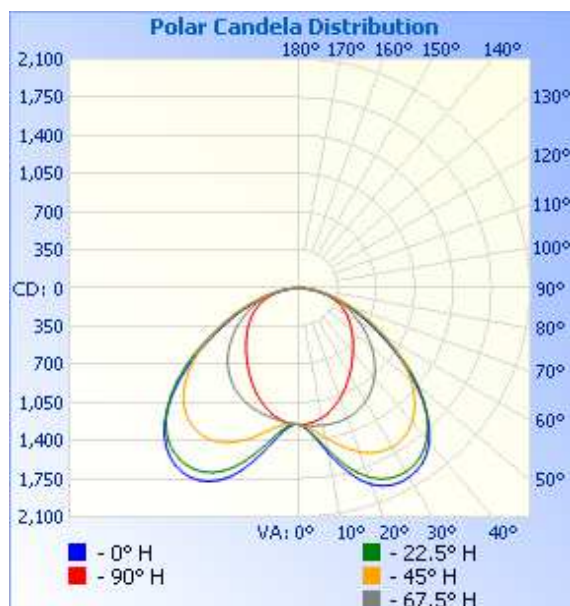
RESULTS OF TEST

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	119.9	352.7	41.70	0.986	5195	124.6

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1252	1252	1252	1252	1252
5	1351	1342	1301	1267	1240
10	1543	1509	1395	1277	1204
15	1757	1697	1504	1278	1148
20	1916	1845	1599	1268	1076
25	1994	1927	1662	1243	996
30	2002	1944	1685	1202	914
35	1956	1907	1664	1141	834
40	1841	1807	1598	1063	759
45	1647	1642	1487	969	690
50	1395	1418	1330	864	625
55	1115	1157	1135	751	563
60	856	898	920	636	500
65	633	667	704	523	434
70	452	475	510	413	362
75	301	315	345	306	284
80	168	175	201	200	196
85	60	62	74	90	100
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

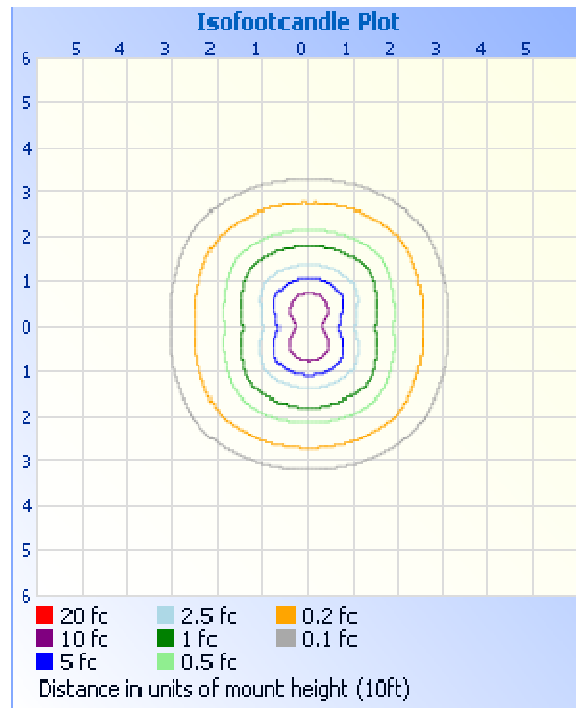
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1248	24.0
0-40	2193	42.2
0-60	4106	79.0
60-90	1089	21.0
0-90	5195	100.0
90-180	0.0	0.0
0-180	5195	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	124.5	2.4
10-20	409.2	7.9
20-30	714.2	13.7
30-40	945.1	18.2
40-50	1020	19.6
50-60	892.6	17.2
60-70	630.7	12.1
70-80	354.9	6.8
80-90	103.5	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.78

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 'Gregory V. Rosandich'.

Gregory V. Rosandich
Technician
Lighting Division

Attachment: None

Report Reviewed By:

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

Vladimir Kozak
Engineering Supervisor
Lighting Division