

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 29, 2019

REPORT NO. 104013131LAX-004H

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-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 BPRO2-FLSH-LED35-HO-4-TMW-SAL-SC-UNV-X1-DM01. The sample was received by Intertek on July 24, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN1906281507-002.

DATES OF TESTS: July 26, 2019

SUMMARY

Model No.:	BPRO2-FLSH-LED35-HO-4-TMW-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3989
Total Power (W)	41.74
Luminaire Efficacy (LPW)	95.57
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	07/26/19
AC Source	CW1251P	000944	VBU	VBU	07/26/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/26/19
Tape Measure	33-428	001491	VBU	VBU	07/26/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/26/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/26/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/26/19

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.

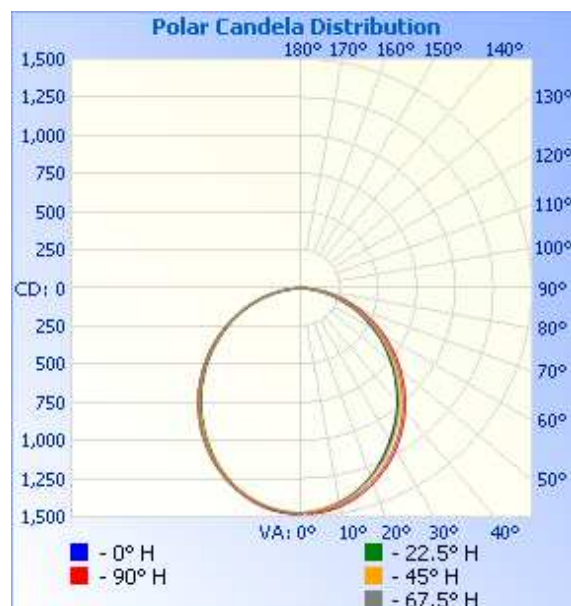
RESULTS OF TEST

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)
LAN1906281507-002	Up	120.1	352.6	41.74	0.986	3989	95.57

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1475	1475	1475	1475	1475
5	1458	1460	1456	1467	1476
10	1424	1428	1428	1442	1454
15	1378	1382	1384	1402	1416
20	1316	1320	1324	1347	1364
25	1237	1245	1254	1281	1300
30	1153	1161	1173	1205	1224
35	1064	1072	1086	1118	1139
40	970	976	991	1024	1046
45	870	875	891	922	948
50	764	770	786	816	843
55	658	664	680	706	735
60	548	556	571	595	624
65	442	447	462	485	512
70	332	340	354	375	401
75	229	234	248	268	293
80	126	132	145	163	185
85	35	38	49	65	83
90	0	0	0	0	0

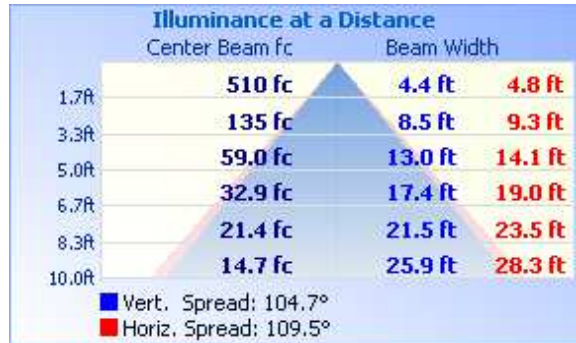


RESULTS OF TEST (cont'd)

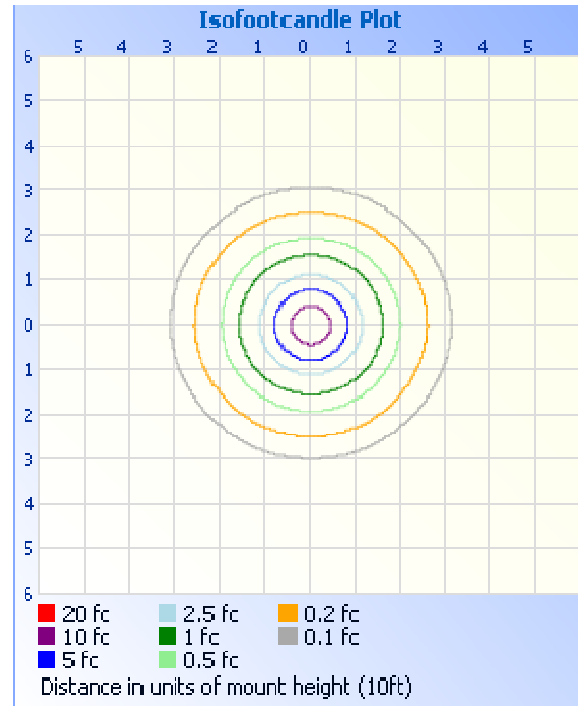
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1120	28.1
0-40	1814	45.5
0-60	3149	78.9
60-90	839.7	21.1
0-90	3989	100.0
90-180	0.0	0.0
0-180	3989	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	139.0	3.5
10-20	394.2	9.9
20-30	587.1	14.7
30-40	693.7	17.4
40-50	706.3	17.7
50-60	628.9	15.8
60-70	479.3	12.0
70-80	283.0	7.1
80-90	77.4	1.9

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34

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:

Handwritten signature of Gregory V. Rosandich.

Gregory V. Rosandich
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Handwritten signature of Vladimir Kozak.

Vladimir Kozak
Engineering Supervisor
Lighting Division