

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 29, 2019

REPORT NO. 104013131LAX-004F

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-MO-4-TMW-SAL-SC-UNV-X1-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI30W 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-MO-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-MO-4-TMW-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2300
Total Power (W)	22.73
Luminaire Efficacy (LPW)	101.2
Power Factor	0.984

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.

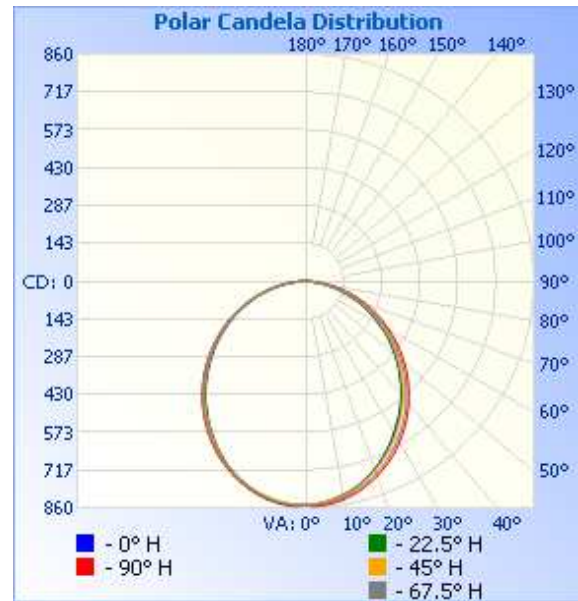
RESULTS OF TEST

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	120.0	192.6	22.73	0.984	2300	101.2

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	850	850	850	850	850
5	841	842	840	846	852
10	822	823	824	832	839
15	795	797	798	808	817
20	760	761	764	777	787
25	715	718	723	739	750
30	666	669	676	694	706
35	616	618	625	644	657
40	561	563	571	589	604
45	504	504	513	531	547
50	442	445	453	470	486
55	382	384	392	407	424
60	318	321	330	344	360
65	257	259	267	281	295
70	194	196	204	217	232
75	134	135	143	155	168
80	75	76	83	94	107
85	21	23	28	38	48
90	0	0	0	0	0

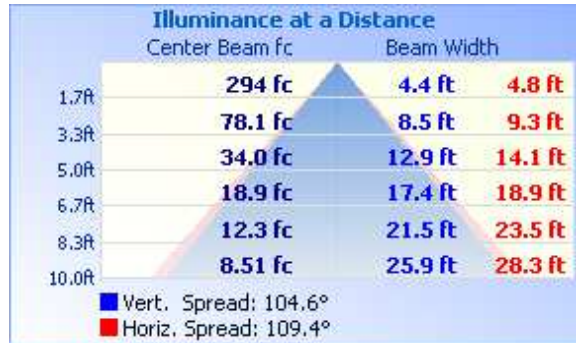


RESULTS OF TEST (cont'd)

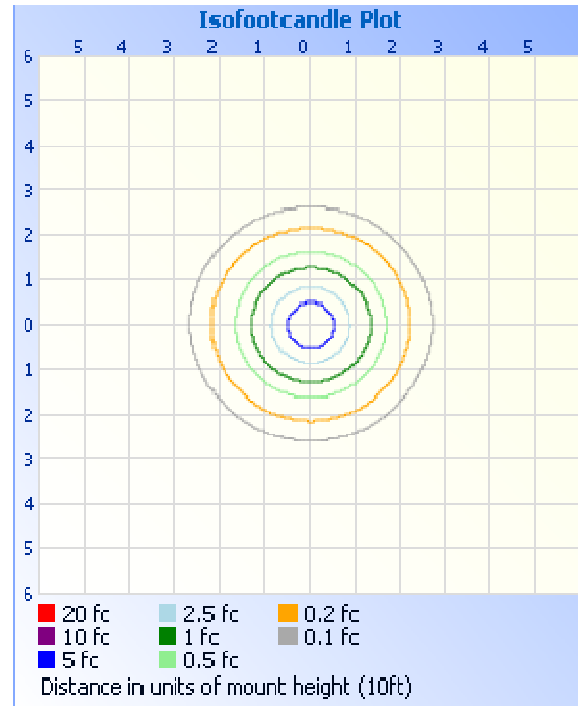
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	646.0	28.1
0-40	1046	45.5
0-60	1816	78.9
60-90	484.7	21.1
0-90	2300	100.0
90-180	0.0	0.0
0-180	2300	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	80.2	3.5
10-20	227.4	9.9
20-30	338.4	14.7
30-40	399.6	17.4
40-50	407.0	17.7
50-60	362.8	15.8
60-70	276.8	12.0
70-80	163.4	7.1
80-90	44.6	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:

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Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
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