

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 29, 2019

REPORT NO. 104013131LAX-004B

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-MO-4-TMW-BTW-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-BTW-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-BTW-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2445
Total Power (W)	22.75
Luminaire Efficacy (LPW)	107.5
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.

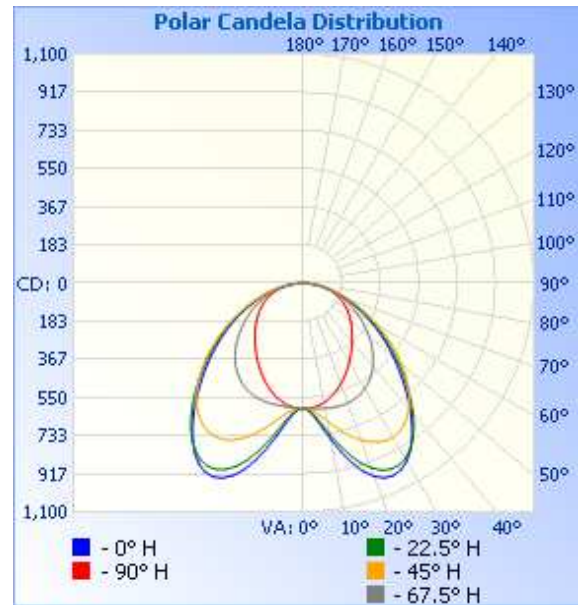
RESULTS OF TEST

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	192.8	22.75	0.984	2445	107.5

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	601	601	601	601	601
5	651	644	622	606	598
10	766	742	676	611	581
15	894	856	743	615	552
20	988	946	803	613	517
25	1019	987	843	604	478
30	986	973	854	585	437
35	904	912	834	556	398
40	794	814	784	516	361
45	676	702	707	467	328
50	567	591	614	413	296
55	466	487	514	355	266
60	373	390	414	299	236
65	287	300	320	244	204
70	210	220	235	192	170
75	141	148	160	141	133
80	81	85	94	92	92
85	27	28	36	42	47
90	0	0	0	0	0

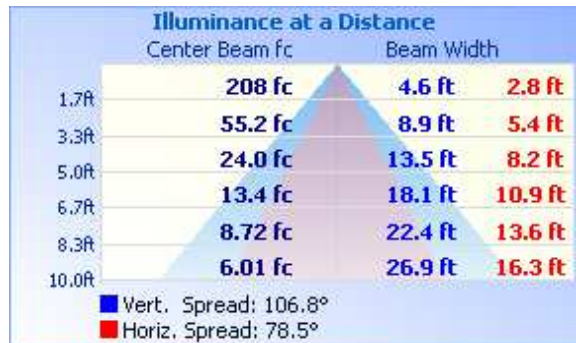


RESULTS OF TEST (cont'd)

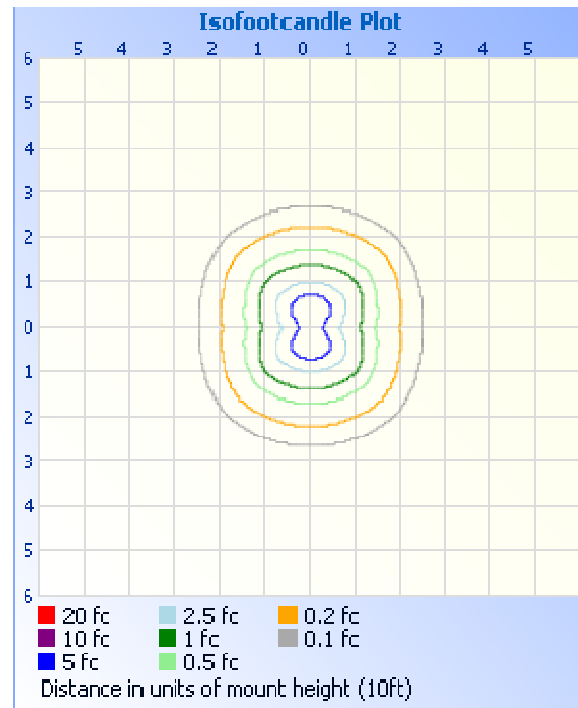
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	632.1	25.8
0-40	1093	44.7
0-60	1948	79.7
60-90	496.8	20.3
0-90	2445	100.0
90-180	0.0	0.0
0-180	2445	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	60.8	2.5
10-20	207.0	8.5
20-30	364.3	14.9
30-40	460.8	18.8
40-50	462.7	18.9
50-60	392.8	16.1
60-70	284.4	11.6
70-80	164.2	6.7
80-90	48.2	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.82
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.76

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:

Gregory V. Rosandich
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
Engineering Supervisor
Lighting Division