

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 29, 2019

REPORT NO. 104013131LAX-004C

TEST OF ONE LED LUMINAIRE

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

Criteria	Result
Total Lumen Output (Lumens)	3380
Total Power (W)	32.06
Luminaire Efficacy (LPW)	105.4
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	07/26/19
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.

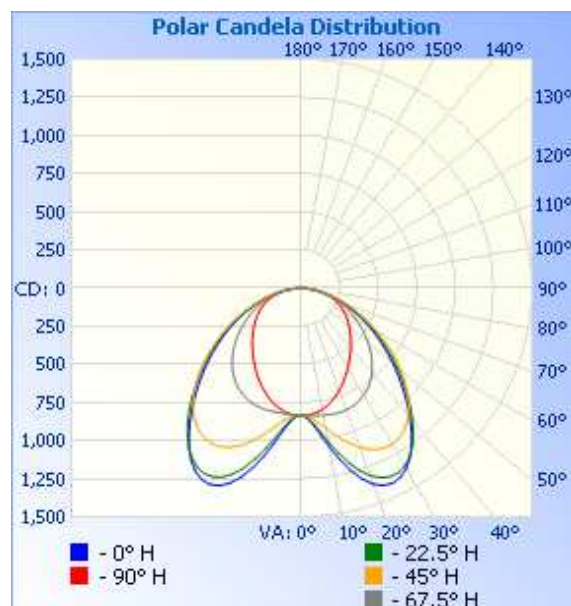
RESULTS OF TEST

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	272.8	32.06	0.979	3380	105.4

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	832	832	832	832	832
5	902	891	861	838	828
10	1061	1027	936	846	804
15	1238	1184	1028	851	765
20	1367	1307	1110	849	715
25	1410	1364	1165	836	660
30	1365	1345	1181	810	604
35	1249	1259	1154	769	550
40	1098	1124	1083	714	499
45	935	969	977	646	452
50	786	816	849	570	408
55	644	671	710	490	367
60	517	538	572	413	325
65	396	415	442	337	282
70	290	304	324	265	235
75	195	205	222	195	184
80	112	118	131	127	127
85	38	39	50	58	65
90	0	0	0	0	0

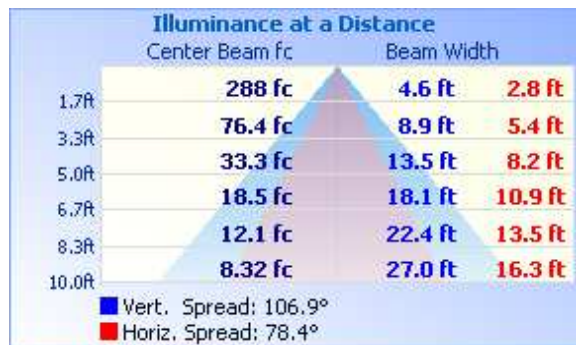


RESULTS OF TEST (cont'd)

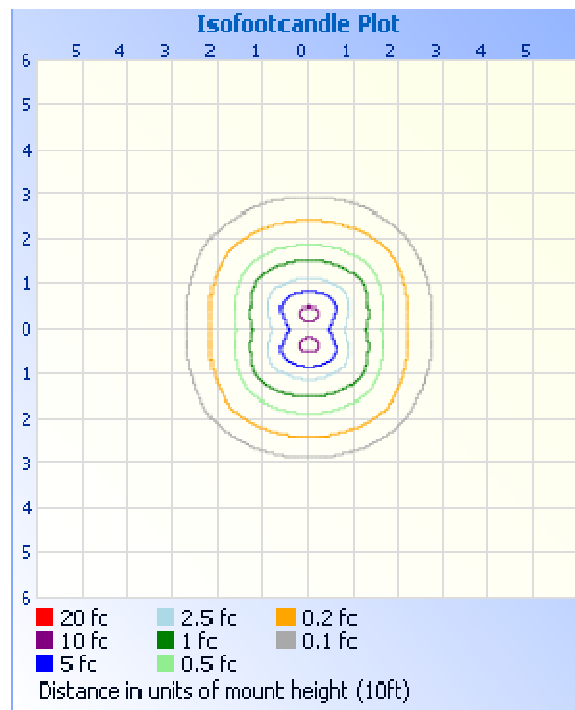
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	874.3	25.9
0-40	1511	44.7
0-60	2693	79.7
60-90	686.1	20.3
0-90	3380	100.0
90-180	0.0	0.0
0-180	3380	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	84.1	2.5
10-20	286.4	8.5
20-30	503.7	14.9
30-40	636.9	18.8
40-50	639.6	18.9
50-60	542.6	16.1
60-70	392.7	11.6
70-80	226.8	6.7
80-90	66.7	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.82
Spacing Criterion (90-270)	1.10
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:

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Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
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