

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 29, 2019

REPORT NO. 104013131LAX-004A

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-LO-4-TMW-BTW-SC-UNV-X1-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI20W 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-LO-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 24, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	1657
Total Power (W)	15.43
Luminaire Efficacy (LPW)	107.4
Power Factor	0.990

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	07/24/19
AC Source	CW1251P	000944	VBU	VBU	07/24/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/24/19
Tape Measure	33-428	001491	VBU	VBU	07/24/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/24/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/24/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/24/19

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.

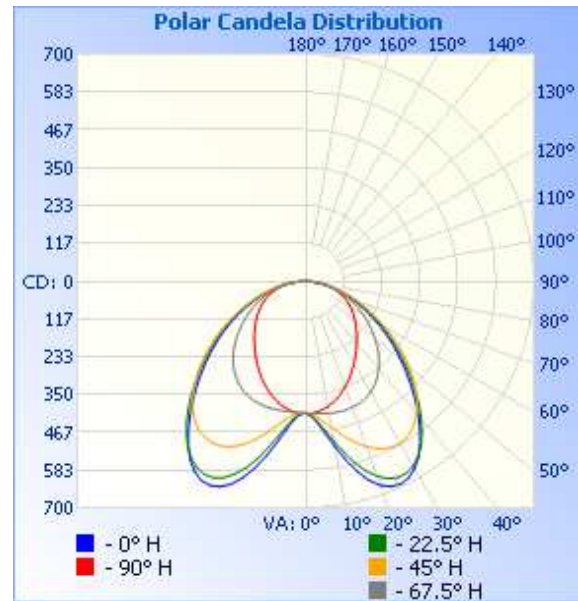
RESULTS OF TEST

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	129.9	15.43	0.990	1657	107.4

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	407	407	407	407	407
5	441	436	421	410	405
10	518	502	458	414	393
15	606	580	503	416	374
20	670	641	543	415	350
25	691	668	570	409	324
30	668	659	578	397	296
35	614	618	565	377	270
40	538	552	530	350	244
45	459	476	478	317	222
50	384	401	416	280	200
55	316	330	348	241	180
60	253	265	281	202	159
65	194	204	216	165	138
70	142	149	159	130	115
75	95	101	108	96	90
80	55	58	64	62	63
85	18	20	24	28	32
90	0	0	0	0	0

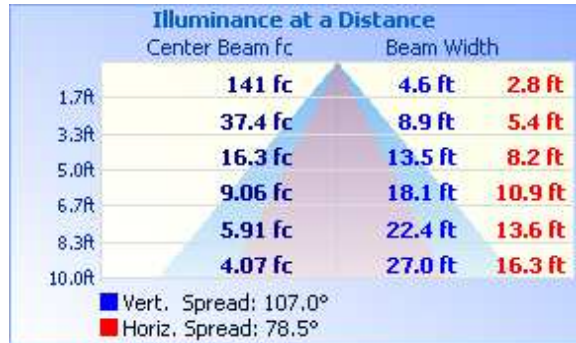


RESULTS OF TEST (cont'd)

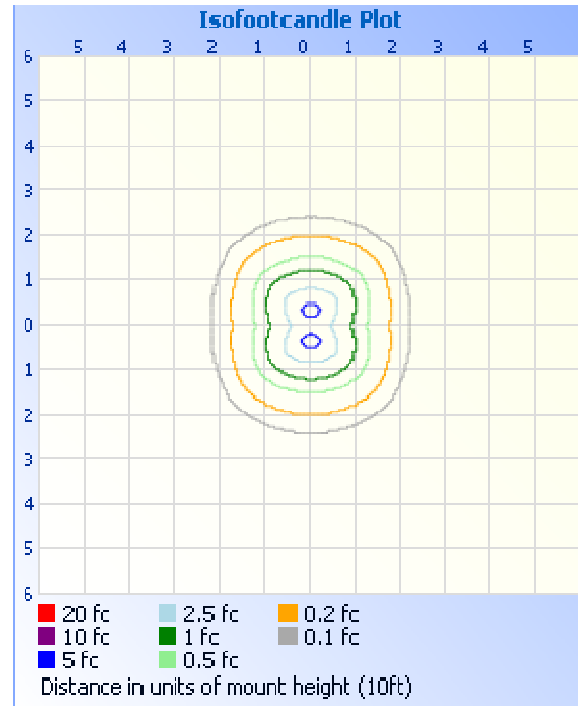
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	428.1	25.8
0-40	740.3	44.7
0-60	1320	79.7
60-90	336.6	20.3
0-90	1657	100.0
90-180	0.0	0.0
0-180	1657	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	41.2	2.5
10-20	140.1	8.5
20-30	246.8	14.9
30-40	312.2	18.8
40-50	313.6	18.9
50-60	266.2	16.1
60-70	192.7	11.6
70-80	111.2	6.7
80-90	32.8	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
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