

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001A

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-FLSH-LED35-LO-4-TMW-BTW-SC-UNV-X1-DM01. The sample was received by Intertek on July 10, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN1907101436-001 .

DATES OF TESTS: July 12, 2019

SUMMARY

Model No.:	BPRO5-FLSH-LED35-LO-4-TMW-BTW-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2020
Total Power (W)	15.43
Luminaire Efficacy (LPW)	130.9
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	07/12/19
AC Source	CW1251P	000944	VBU	VBU	07/12/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/12/19
Tape Measure	33-428	001491	VBU	VBU	07/12/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/12/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/12/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/12/19

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.

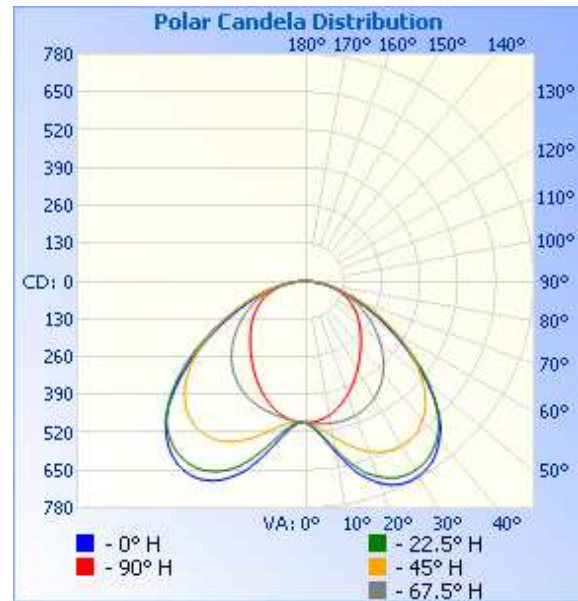
RESULTS OF TEST

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)
LAN1907101436-001	Up	120.0	129.9	15.43	0.990	2020	130.9

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	487	487	487	487	487
5	524	522	506	492	482
10	598	588	543	496	468
15	682	661	585	497	445
20	739	714	622	492	417
25	770	745	648	483	386
30	774	751	656	466	354
35	756	737	649	443	323
40	712	701	624	412	294
45	644	640	580	376	267
50	545	551	520	335	242
55	437	450	444	292	218
60	334	349	359	247	194
65	248	260	275	203	169
70	176	185	199	161	141
75	118	123	135	119	110
80	65	68	78	78	76
85	24	24	29	35	39
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

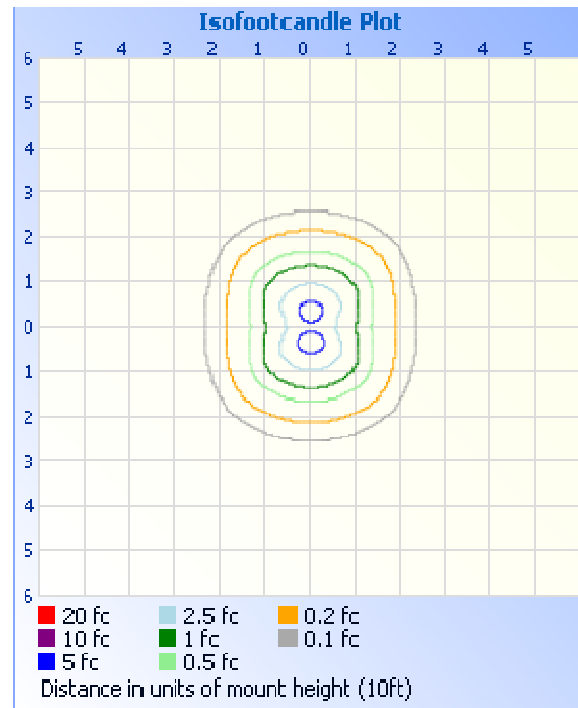
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	484.4	24.0
0-40	850.9	42.1
0-60	1596	79.0
60-90	424.5	21.0
0-90	2020	100.0
90-180	0.0	0.0
0-180	2020	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	48.4	2.4
10-20	159.1	7.9
20-30	277.0	13.7
30-40	366.5	18.1
40-50	397.0	19.7
50-60	347.6	17.2
60-70	245.8	12.2
70-80	138.3	6.8
80-90	40.4	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.80

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:

A handwritten signature in black ink, appearing to read 'Gregory V. Rosandich'.

Gregory V. Rosandich
Technician
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Vladimir Kozak'.

Vladimir Kozak
Engineering Supervisor
Lighting Division