

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 19, 2019

REPORT NO. 104013131LAX-002A

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-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 BPRO3-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 LAN1907101436-002.

DATES OF TESTS: July 17, 2019

SUMMARY

Model No.:	BPRO3-FLSH-LED35-LO-4-TMW-BTW-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1874
Total Power (W)	15.43
Luminaire Efficacy (LPW)	121.5
Power Factor	0.989

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	07/17/19
AC Source	CW1251P	000944	VBU	VBU	07/17/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/17/19
Tape Measure	33-428	001491	VBU	VBU	07/17/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/17/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/17/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/17/19

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.

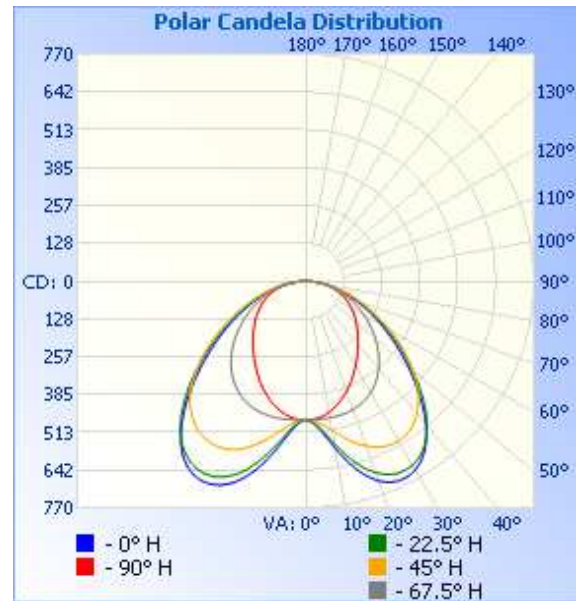
RESULTS OF TEST

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)
LAN1907101436-002	Up	120.0	129.9	15.43	0.989	1874	121.5

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	470	470	470	470	470
5	500	495	480	471	467
10	576	560	514	471	453
15	661	635	557	469	430
20	722	692	595	464	401
25	748	722	620	454	369
30	740	722	627	438	336
35	702	694	616	415	305
40	632	638	585	384	276
45	543	560	537	349	249
50	453	472	474	309	224
55	369	387	401	268	201
60	296	310	326	227	178
65	230	241	253	187	154
70	172	180	188	148	128
75	121	126	132	111	101
80	76	78	82	73	70
85	33	34	37	36	36
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

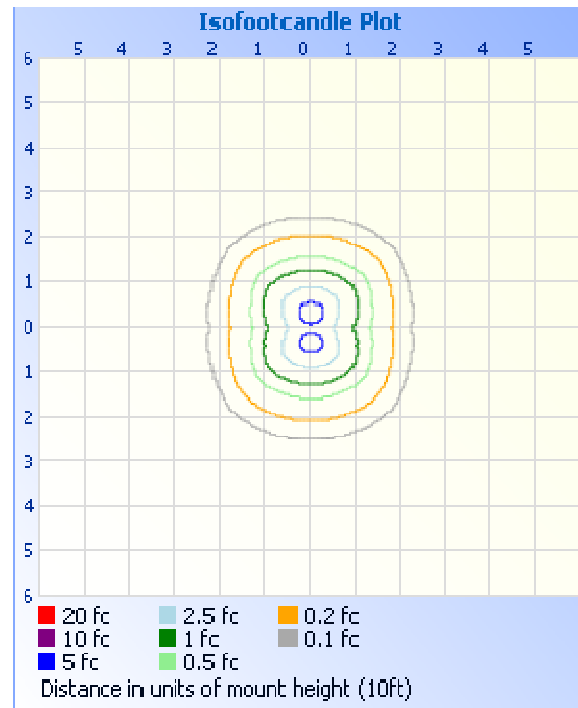
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	477.5	25.5
0-40	827.8	44.2
0-60	1490	79.5
60-90	384.0	20.5
0-90	1874	100.0
90-180	0.0	0.0
0-180	1874	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	47.3	2.5
10-20	157.5	8.4
20-30	272.7	14.6
30-40	350.2	18.7
40-50	358.8	19.1
50-60	303.4	16.2
60-70	217.9	11.6
70-80	127.0	6.8
80-90	39.0	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.84
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.74

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