

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 22, 2019

REPORT NO. 104013131LAX-003C

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-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 BPRO4-FLSH-LED35-SO-4-TMW-BTW-SC-UNV-X1-DM01. The sample was received by Intertek on July 19, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN1907191346-003.

DATES OF TESTS: July 19, 2019

SUMMARY

Model No.:	BPRO4-FLSH-LED35-SO-4-TMW-BTW-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3979
Total Power (W)	32.04
Luminaire Efficacy (LPW)	124.2
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	07/19/19
AC Source	CW1251P	000944	VBU	VBU	07/19/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/19/19
Tape Measure	33-428	001491	VBU	VBU	07/19/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/19/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/19/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/19/19

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.

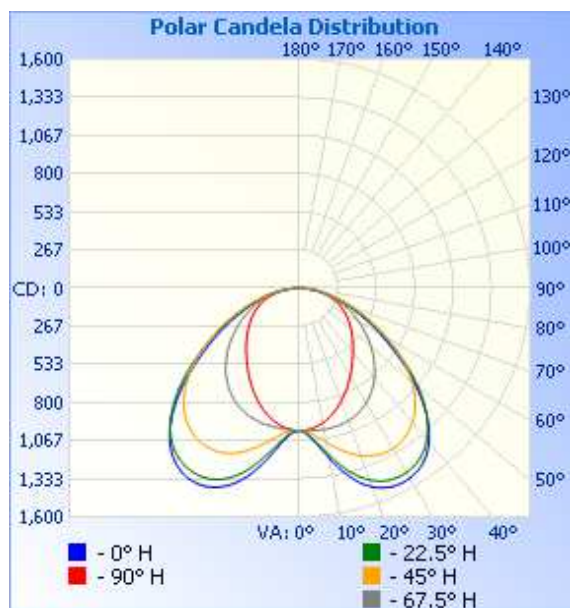
RESULTS OF TEST

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)
LAN1907191346-003	Up	120.0	272.6	32.04	0.979	3979	124.2

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	994	994	994	994	994
5	1063	1056	1024	1000	985
10	1213	1186	1096	1002	954
15	1370	1326	1179	999	904
20	1480	1428	1246	987	842
25	1531	1481	1286	963	775
30	1534	1488	1296	926	705
35	1496	1458	1275	875	639
40	1402	1379	1222	811	577
45	1250	1250	1136	735	522
50	1054	1077	1018	653	471
55	846	881	874	567	422
60	658	690	712	481	374
65	497	523	553	396	324
70	365	383	405	314	270
75	252	264	280	234	211
80	156	162	171	155	146
85	66	68	75	75	75
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

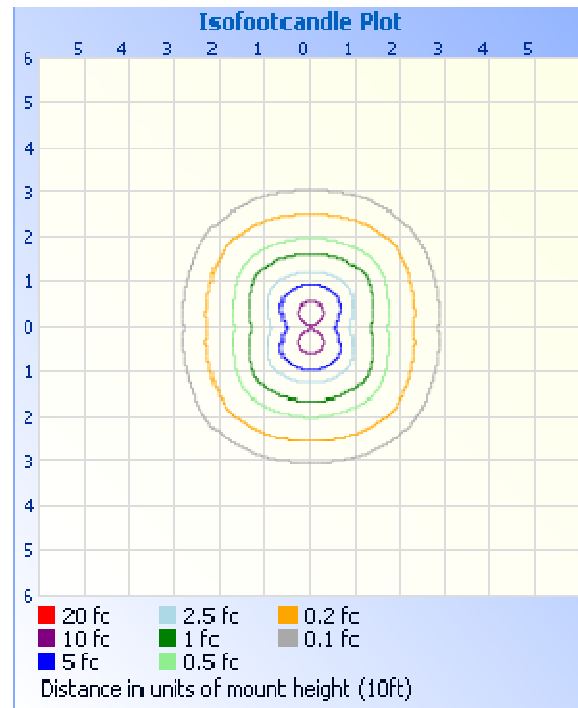
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	986.1	24.8
0-40	1714	43.1
0-60	3148	79.1
60-90	831.2	20.9
0-90	3979	100.0
90-180	0.0	0.0
0-180	3979	100.0

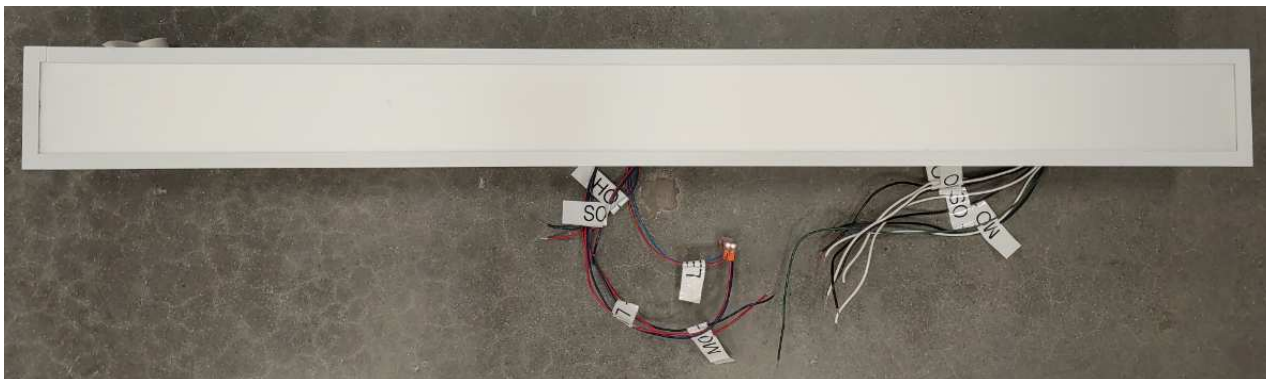
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	99.5	2.5
10-20	326.7	8.2
20-30	559.9	14.1
30-40	727.6	18.3
40-50	770.3	19.4
50-60	663.7	16.7
60-70	472.7	11.9
70-80	273.4	6.9
80-90	85.2	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.90
Spacing Criterion (90-270)	1.08
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
Engineering Supervisor
Lighting Division