

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 22, 2019

REPORT NO. 104013131LAX-003G

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-FLSH-LED35-SO-4-TMW-SAL-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-SAL-SC-UNV-X1-DM01. The sample was received by Intertek on July 18, 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-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3776
Total Power (W)	32.07
Luminaire Efficacy (LPW)	117.7
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.

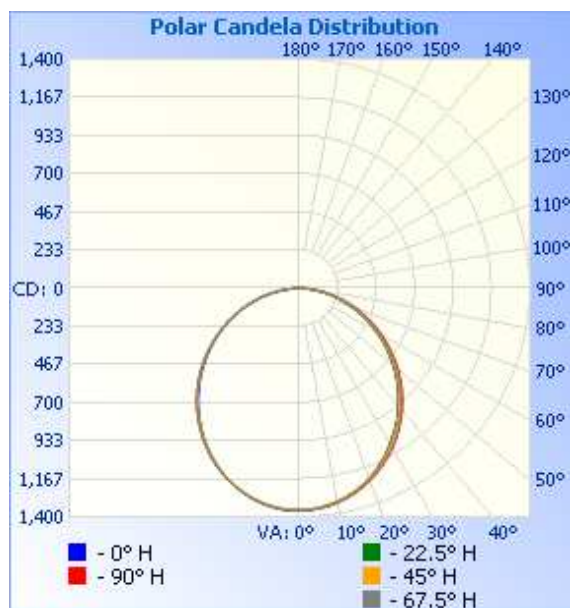
RESULTS OF TEST

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	120.1	272.8	32.07	0.979	3776	117.7

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1360	1360	1360	1360	1360
5	1350	1350	1346	1353	1354
10	1324	1326	1324	1332	1334
15	1288	1289	1288	1298	1300
20	1238	1238	1237	1250	1253
25	1174	1174	1177	1192	1197
30	1099	1102	1106	1124	1130
35	1023	1023	1029	1047	1054
40	936	937	944	962	971
45	846	845	852	869	881
50	748	749	757	773	785
55	650	649	657	672	685
60	546	547	556	570	582
65	445	445	453	466	479
70	342	343	350	363	375
75	242	242	249	261	273
80	144	144	151	162	172
85	51	52	58	68	77
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

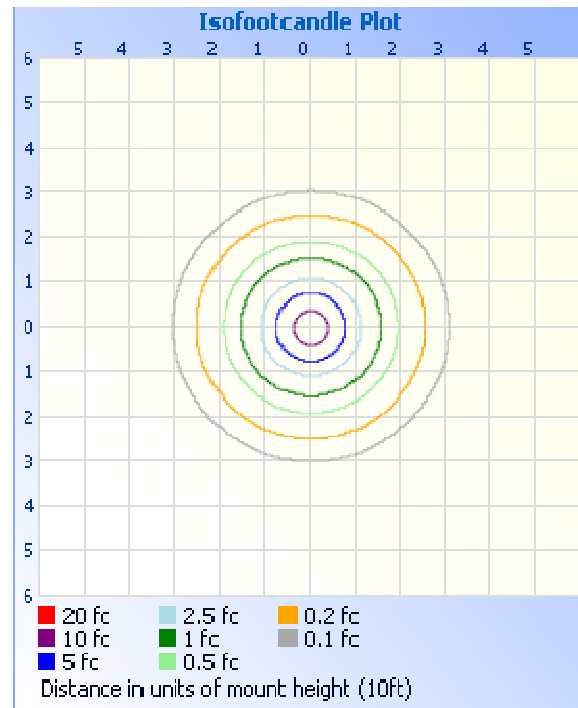
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1041	27.6
0-40	1692	44.8
0-60	2959	78.4
60-90	817.1	21.6
0-90	3776	100.0
90-180	0.0	0.0
0-180	3776	100.0

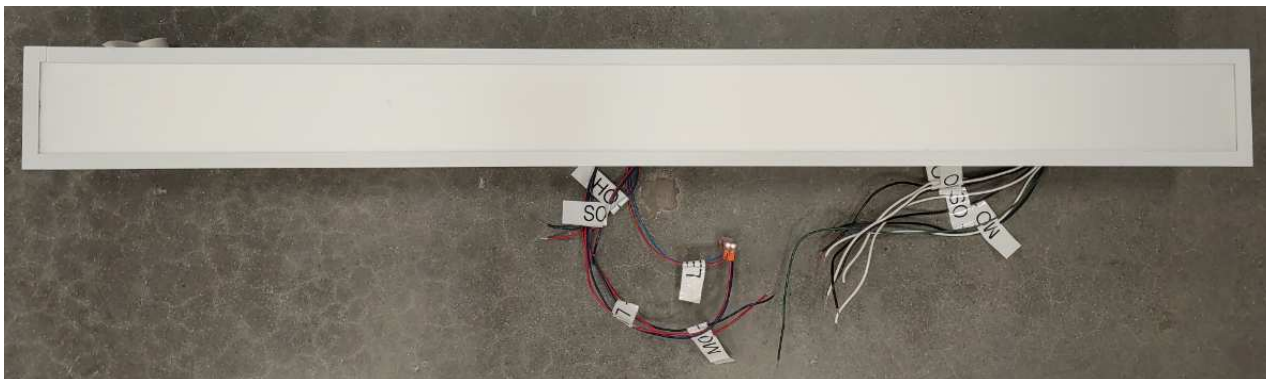
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	128.3	3.4
10-20	365.1	9.7
20-30	547.2	14.5
30-40	651.2	17.2
40-50	668.0	17.7
50-60	599.3	15.9
60-70	461.0	12.2
70-80	276.8	7.3
80-90	79.3	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36

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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