

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 22, 2019

REPORT NO. 104013131LAX-003E

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-FLSH-LED35-LO-4-TMW-SAL-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 BPRO4-FLSH-LED35-LO-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-LO-4-TMW-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1849
Total Power (W)	15.45
Luminaire Efficacy (LPW)	119.7
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	07/19/19
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.

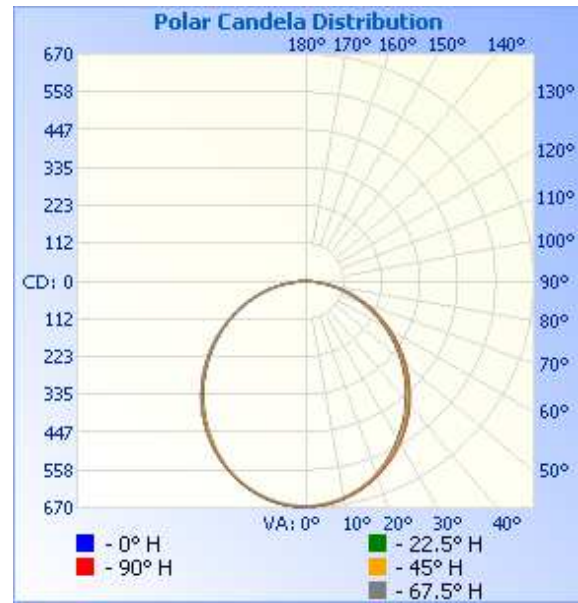
RESULTS OF TEST

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	130.1	15.45	0.990	1849	119.7

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	666	666	666	666	666
5	661	662	659	662	663
10	649	650	648	652	653
15	632	632	631	635	636
20	606	607	607	612	614
25	576	577	577	584	586
30	539	541	543	551	554
35	502	503	505	513	516
40	460	461	463	472	475
45	416	416	419	427	431
50	368	369	372	380	384
55	320	320	324	330	335
60	270	271	274	280	285
65	219	220	224	229	235
70	170	170	174	179	184
75	120	121	124	129	134
80	73	73	76	80	85
85	26	27	30	35	38
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

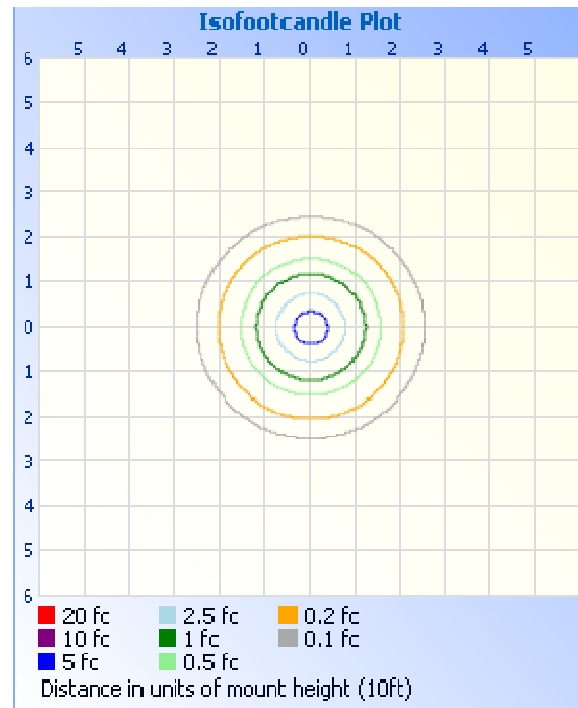
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	509.3	27.5
0-40	828.1	44.8
0-60	1449	78.3
60-90	400.6	21.7
0-90	1849	100.0
90-180	0.0	0.0
0-180	1849	100.0

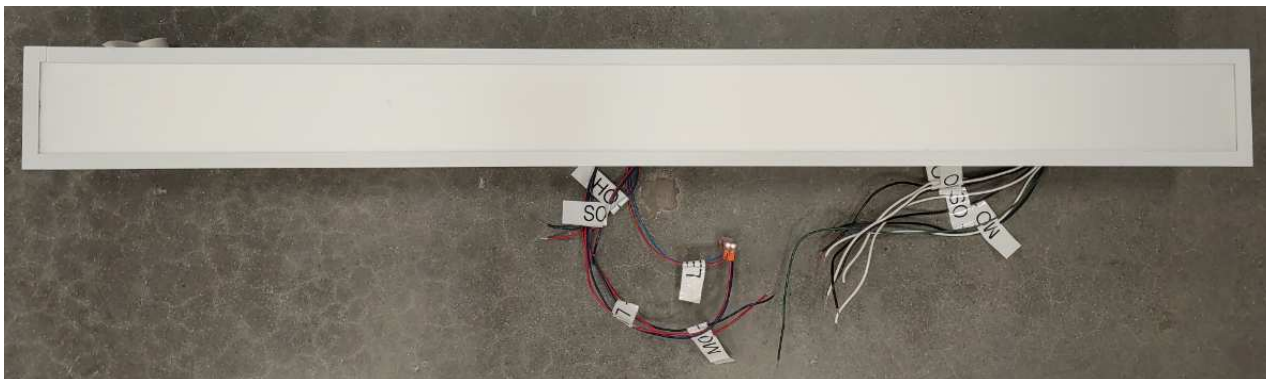
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	62.8	3.4
10-20	178.7	9.7
20-30	267.8	14.5
30-40	318.8	17.2
40-50	327.0	17.7
50-60	293.6	15.9
60-70	225.9	12.2
70-80	135.6	7.3
80-90	39.1	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:

Gregory V. Rosandich
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
Engineering Supervisor
Lighting Division