

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 22, 2019

REPORT NO. 104013131LAX-003A

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-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 BPRO4-FLSH-LED35-LO-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 22, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	1960
Total Power (W)	15.43
Luminaire Efficacy (LPW)	127.0
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	07/22/19
AC Source	CW1251P	000944	VBU	VBU	07/22/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/22/19
Tape Measure	33-428	001491	VBU	VBU	07/22/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/22/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/22/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/22/19

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.

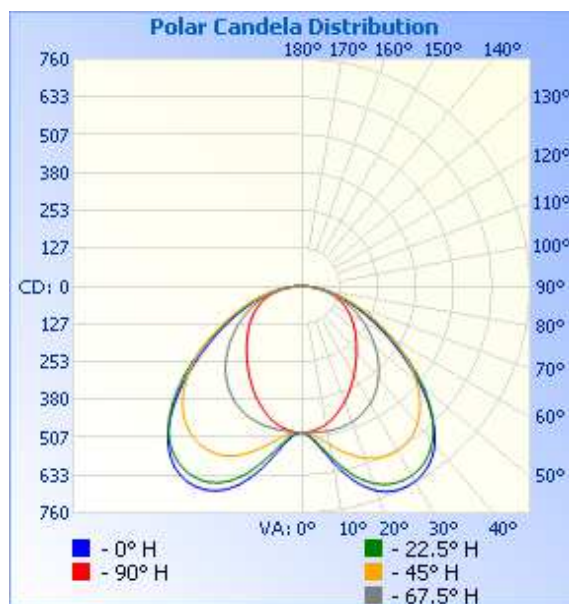
RESULTS OF TEST

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	129.9	15.43	0.990	1960	127.0

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	490	490	490	490	490
5	524	520	504	492	485
10	597	584	539	493	470
15	675	653	580	492	446
20	730	703	613	486	415
25	755	729	633	474	382
30	755	733	638	456	348
35	736	718	627	431	315
40	691	679	601	399	285
45	615	616	558	362	258
50	519	531	501	322	232
55	417	435	431	279	208
60	324	341	351	237	184
65	245	259	272	195	160
70	180	189	200	155	133
75	125	130	138	115	104
80	77	80	84	76	72
85	33	34	36	37	37
90	0	0	0	0	0

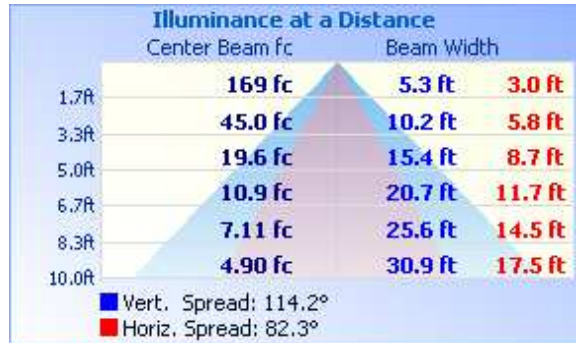


RESULTS OF TEST (cont'd)

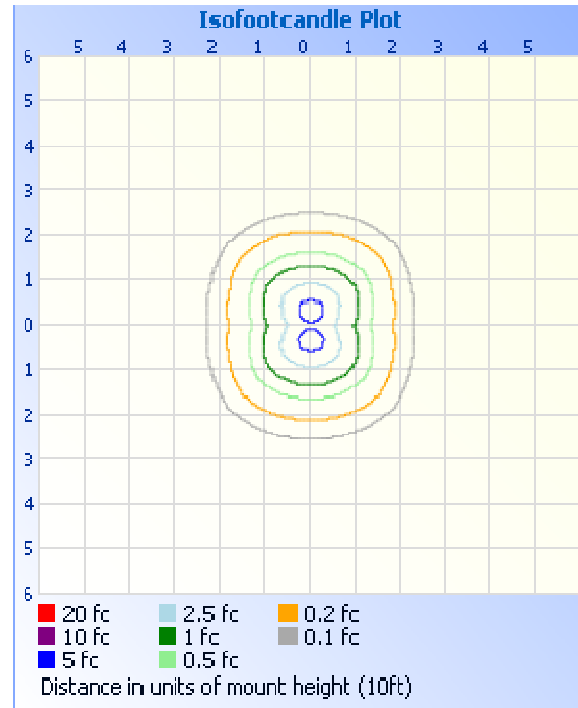
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	485.6	24.8
0-40	843.8	43.0
0-60	1550	79.1
60-90	409.9	20.9
0-90	1960	100.0
90-180	0.0	0.0
0-180	1960	100.0

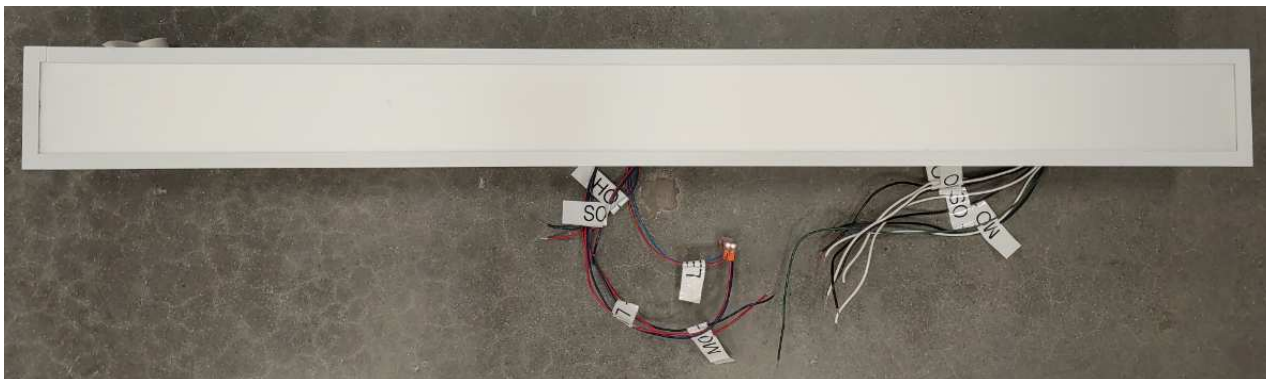
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	49.0	2.5
10-20	160.8	8.2
20-30	275.7	14.1
30-40	358.2	18.3
40-50	379.3	19.4
50-60	327.1	16.7
60-70	233.3	11.9
70-80	134.8	6.9
80-90	41.8	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
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