

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 22, 2019

REPORT NO. 104013131LAX-003B

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-FLSH-LED35-MO-4-TMW-BTW-SC-UNV-X1-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI30W 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-MO-4-TMW-BTW-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 22, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	2886
Total Power (W)	22.76
Luminaire Efficacy (LPW)	126.8
Power Factor	0.984

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.

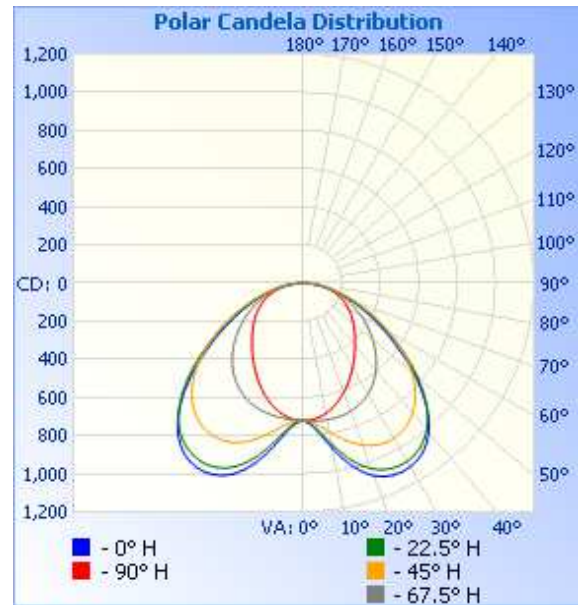
RESULTS OF TEST

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	192.8	22.76	0.984	2886	126.8

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	721	721	721	721	721
5	773	765	742	724	714
10	883	861	794	727	691
15	996	961	854	724	655
20	1075	1036	903	715	610
25	1110	1074	933	698	561
30	1112	1079	940	671	511
35	1084	1057	925	634	463
40	1016	1000	886	588	419
45	906	907	824	533	378
50	764	782	740	474	341
55	612	640	635	411	306
60	477	502	518	349	271
65	360	381	402	287	235
70	264	278	295	228	196
75	183	192	204	170	154
80	113	118	124	112	106
85	48	49	55	55	55
90	0	0	0	0	0

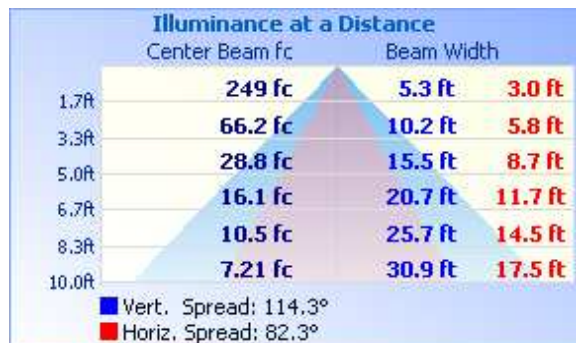


RESULTS OF TEST (cont'd)

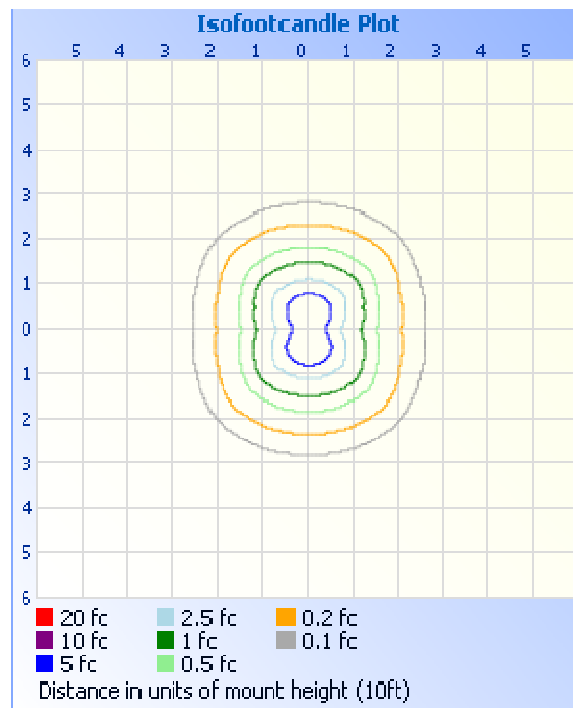
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	714.6	24.8
0-40	1242	43.0
0-60	2282	79.1
60-90	603.8	20.9
0-90	2886	100.0
90-180	0.0	0.0
0-180	2886	100.0

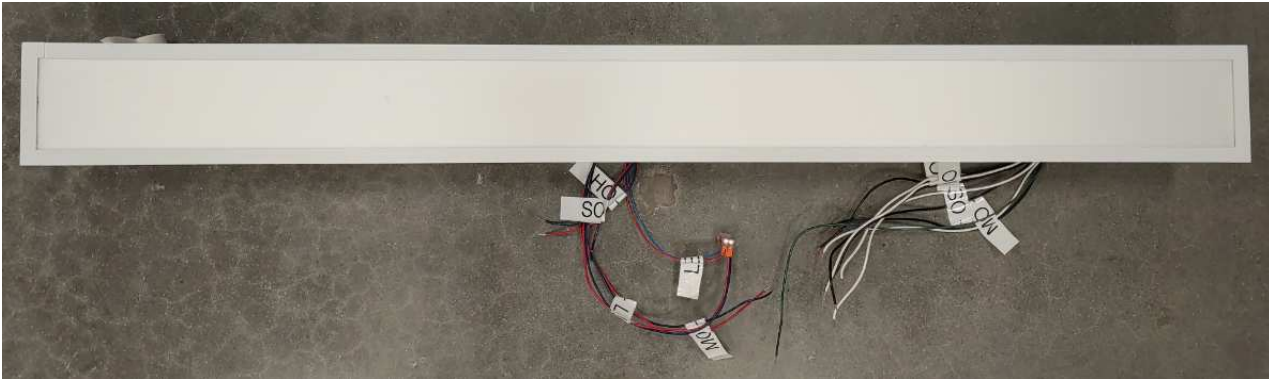
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	72.1	2.5
10-20	236.7	8.2
20-30	405.7	14.1
30-40	527.3	18.3
40-50	558.6	19.4
50-60	481.4	16.7
60-70	343.3	11.9
70-80	198.6	6.9
80-90	61.9	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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Attachment: None

Report Reviewed By:

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