

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 17, 2019

REPORT NO. 104013131LAX-001F

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-MO-4-TMW-SAL-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 BPRO5-FLSH-LED35-MO-4-TMW-SAL-SC-UNV-X1-DM01. The sample was received by Intertek on July 10, 2019, in undamaged condition and one sample was tested as received. The sample designation was LAN1907101436-001 .

DATES OF TESTS: July 15, 2019

SUMMARY

Model No.:	BPRO5-FLSH-LED35-MO-4-TMW-SAL-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2872
Total Power (W)	22.76
Luminaire Efficacy (LPW)	126.2
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	07/15/19
AC Source	CW1251P	000944	VBU	VBU	07/15/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/15/19
Tape Measure	33-428	001491	VBU	VBU	07/15/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/15/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/15/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/15/19

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.

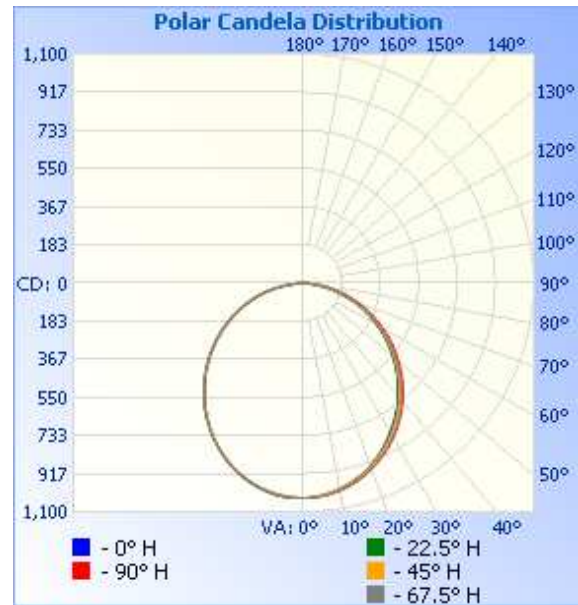
RESULTS OF TEST

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)
LAN1907101436-001	Up	120.0	192.8	22.76	0.984	2872	126.2

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	1033	1033	1033	1033	1033
5	1024	1025	1022	1027	1028
10	1002	1005	1005	1011	1013
15	974	976	977	984	987
20	934	936	938	948	952
25	884	887	891	903	909
30	828	831	837	851	858
35	768	771	777	792	800
40	703	704	712	727	737
45	634	635	642	656	668
50	560	562	569	583	595
55	486	487	494	507	520
60	408	410	418	430	442
65	332	332	340	351	363
70	254	255	262	273	284
75	173	175	186	196	207
80	91	94	106	121	130
85	27	28	35	47	57
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

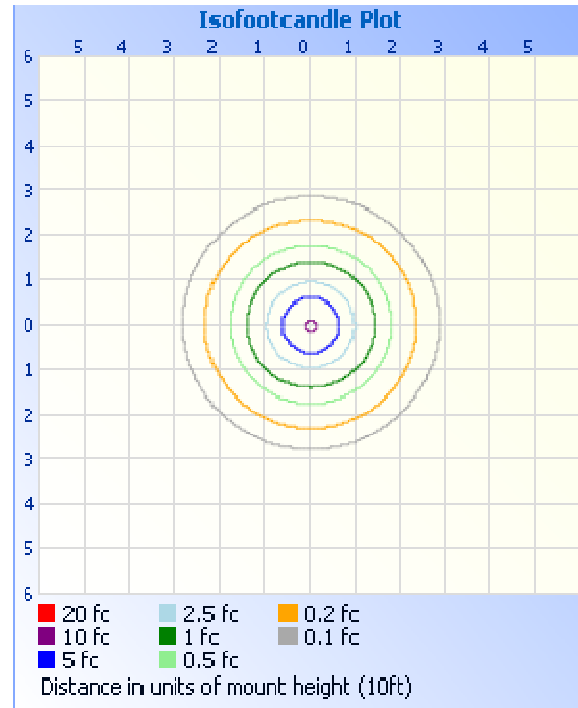
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	790.6	27.5
0-40	1286	44.8
0-60	2250	78.3
60-90	622.0	21.7
0-90	2872	100.0
90-180	0.0	0.0
0-180	2872	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	97.5	3.4
10-20	277.4	9.7
20-30	415.7	14.5
30-40	494.9	17.2
40-50	507.7	17.7
50-60	456.8	15.9
60-70	352.9	12.3
70-80	211.3	7.4
80-90	57.7	2.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.20
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
Engineering Supervisor
Lighting Division