

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 19, 2019

REPORT NO. 104013131LAX-002B

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-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 BPRO3-FLSH-LED35-MO-4-TMW-BTW-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 LAN1907101436-002.

DATES OF TESTS: July 17, 2019

SUMMARY

Model No.:	BPRO3-FLSH-LED35-MO-4-TMW-BTW-SC-UNV-X1-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2747
Total Power (W)	22.65
Luminaire Efficacy (LPW)	121.3
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	07/17/19
AC Source	CW1251P	000944	VBU	VBU	07/17/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/17/19
Tape Measure	33-428	001491	VBU	VBU	07/17/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/17/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/17/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/17/19

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.

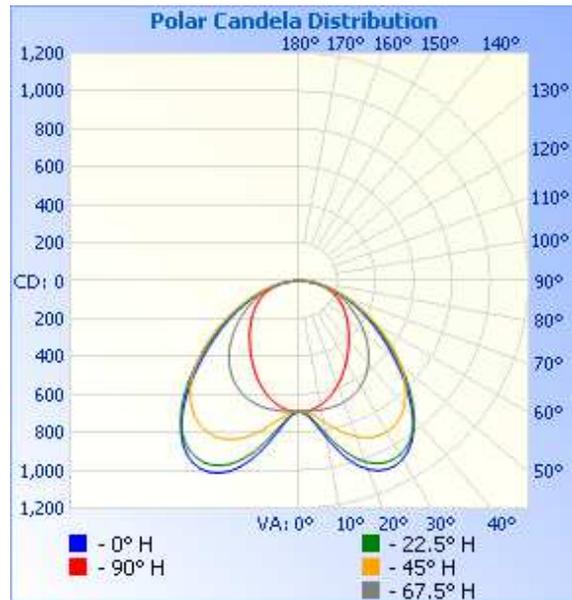
RESULTS OF TEST

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)
LAN1907101436-002	Up	119.9	192.0	22.65	0.984	2747	121.3

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	690	690	690	690	690
5	734	727	705	690	684
10	846	822	756	690	663
15	971	932	819	688	630
20	1059	1016	875	681	587
25	1096	1058	910	667	541
30	1085	1058	920	643	493
35	1029	1018	903	609	447
40	927	935	858	564	404
45	796	820	787	512	365
50	662	691	694	453	329
55	540	566	587	393	295
60	432	453	477	332	261
65	337	352	371	273	226
70	252	263	275	217	189
75	178	184	192	162	148
80	110	114	120	108	103
85	49	50	54	53	53
90	0	0	0	0	0



RESULTS OF TEST (cont'd)

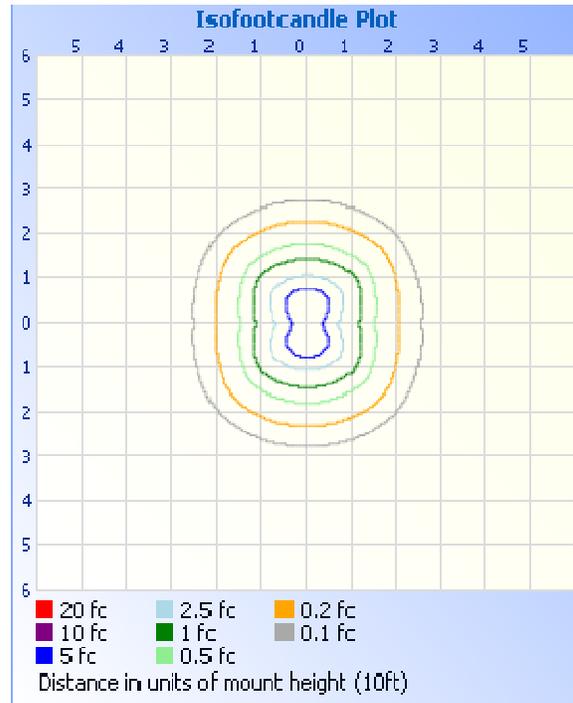
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	700.1	25.5
0-40	1214	44.2
0-60	2184	79.5
60-90	562.7	20.5
0-90	2747	100.0
90-180	0.0	0.0
0-180	2747	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	69.4	2.5
10-20	231.0	8.4
20-30	399.7	14.6
30-40	513.5	18.7
40-50	526.0	19.1
50-60	444.4	16.2
60-70	319.2	11.6
70-80	186.2	6.8
80-90	57.3	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.84
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.74

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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Lighting Division