

# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104013131

Date: July 19, 2019

REPORT NO. 104013131LAX-002F

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-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 BPRO3-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 LAN1907101436-002.

DATES OF TESTS: July 18, 2019

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	2566
Total Power (W)	22.63
Luminaire Efficacy (LPW)	113.4
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	07/18/19
AC Source	CW1251P	000944	VBU	VBU	07/18/19
Power Analyzer	WT210	000945	11/28/18	11/28/19	07/18/19
Tape Measure	33-428	001491	VBU	VBU	07/18/19
Magnetic Level	581-9	001610	10/31/18	10/31/19	07/18/19
Thermometer	DPI8-C24	001782	09/21/18	09/21/19	07/18/19
Temp. & RH Meter	971	001177	01/29/19	01/29/20	07/18/19

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.

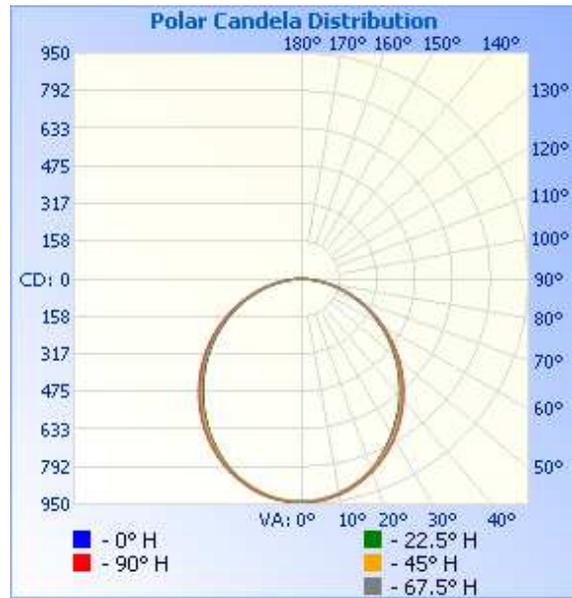
RESULTS OF TEST

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	191.8	22.63	0.984	2566	113.4

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	940	940	940	940	940
5	933	934	930	936	938
10	916	917	915	921	924
15	890	891	890	897	899
20	854	855	854	864	866
25	808	810	812	823	826
30	757	759	763	775	778
35	702	704	708	720	724
40	644	644	648	660	664
45	580	581	585	596	602
50	515	516	520	529	535
55	448	449	453	460	466
60	379	380	384	390	395
65	310	311	314	319	325
70	241	242	244	249	254
75	174	174	177	180	185
80	107	108	110	113	116
85	45	45	48	50	52
90	0	0	0	0	0

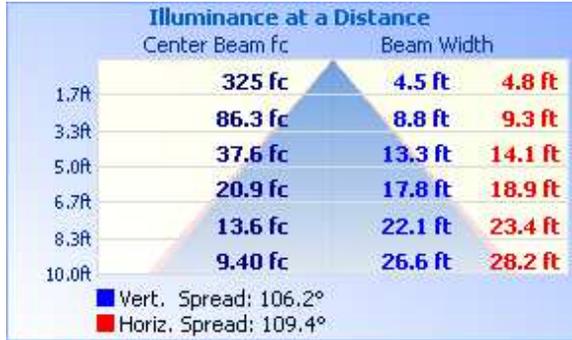


RESULTS OF TEST (cont'd)

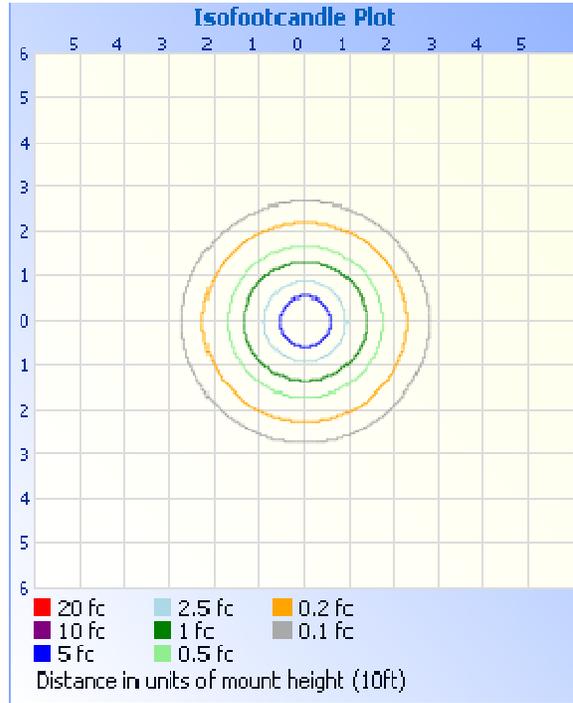
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	715.9	27.9
0-40	1160	45.2
0-60	2018	78.6
60-90	548.1	21.4
0-90	2566	100.0
90-180	0.0	0.0
0-180	2566	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	88.6	3.5
10-20	251.7	9.8
20-30	375.6	14.6
30-40	444.4	17.3
40-50	453.2	17.7
50-60	404.9	15.8
60-70	310.1	12.1
70-80	185.1	7.2
80-90	52.9	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34

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