

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104359650

Date: June 17, 2020

REPORT NO. 104361023LAX-003B

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-FLSH-LED35-LO-4-WWF
LED MODEL NO. LUMILEDS 2835E 9V
DRIVER MODEL NO. LO - OSRAM OTI20G2 - 409MAMP

RENDERED TO

PRUDENTIAL LIGHTING
1774 EAST 21ST
LOS ANGELES, CA 90058

STATEMENT OF LIMITATION: This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-01069292-0.

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-LO-4-WWF. The sample was received by Intertek on June 1, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2006021315-003.

DATES OF TESTS: June 17, 2020

SUMMARY

Model No.:	BPRO3-FLSH-LED35-LO-4-WWF
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1923
Total Power (W)	15.40
Luminaire Efficacy (LPW)	124.9
Power Factor	0.989

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	06/17/20
AC Source	CW1251P	000944	VBU	VBU	06/17/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	06/17/20
Tape Measure	33-428	001491	VBU	VBU	06/17/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	06/17/20
Temp. & RH Meter	Testo 622	001910	04/15/20	04/15/21	06/17/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	06/17/20

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.

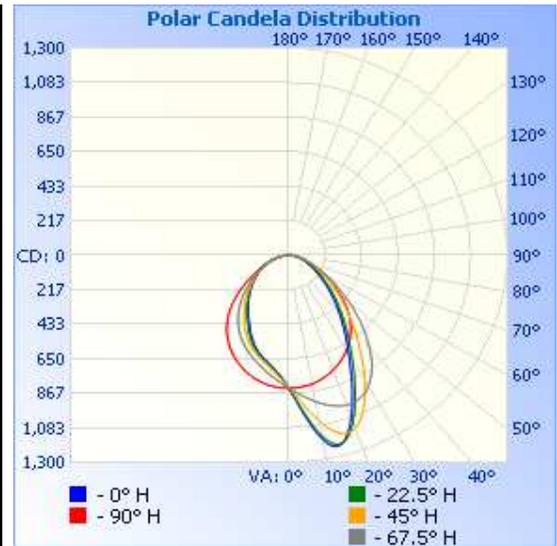
RESULTS OF TEST

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)
LAN2006021315-003	Up	120.0	129.7	15.40	0.989	1923	124.9

Intensity (Candlepower) Summary at 25°C - Candelas

	Angle	0	22.5	45	67.5	90
	W A L L S I D E	90	0	0	0	0
85		20	20	24	26	26
80		43	44	54	57	56
75		69	72	88	92	88
70		99	104	129	134	125
65		134	141	178	191	174
60		176	187	238	265	240
55		227	244	309	363	323
50		291	314	393	481	414
45		371	398	490	613	500
40		466	497	607	745	574
R O O M S I D E	35	577	612	748	862	636
	30	713	757	905	948	688
	25	890	936	1056	994	732
	20	1087	1117	1156	1001	768
	15	1224	1221	1154	977	797
	10	1175	1153	1059	934	819
	5	994	982	934	883	831
	0	834	834	834	834	834
	5	742	747	758	788	831
	10	690	693	706	746	819
	15	649	654	666	705	797
20	599	608	627	666	768	
25	538	551	580	625	732	
30	476	489	523	578	688	
35	422	432	463	525	636	
40	374	383	406	464	574	
45	329	336	353	399	500	
50	285	290	300	331	414	
55	243	245	250	264	323	
60	204	203	202	205	240	
65	169	165	159	155	174	
70	134	130	121	114	125	
75	97	95	87	81	88	
80	60	60	54	52	56	
85	24	26	24	24	26	
90	0	0	0	0	0	
	Angle	180	202.5	225	247.5	270

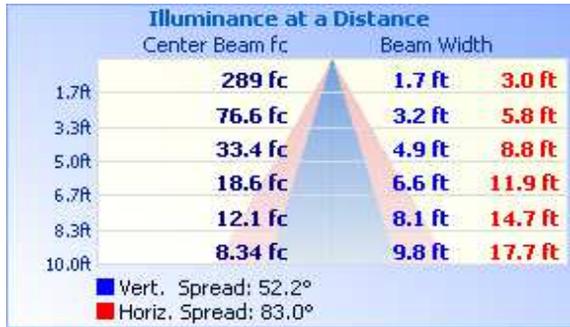


RESULTS OF TEST (cont'd)

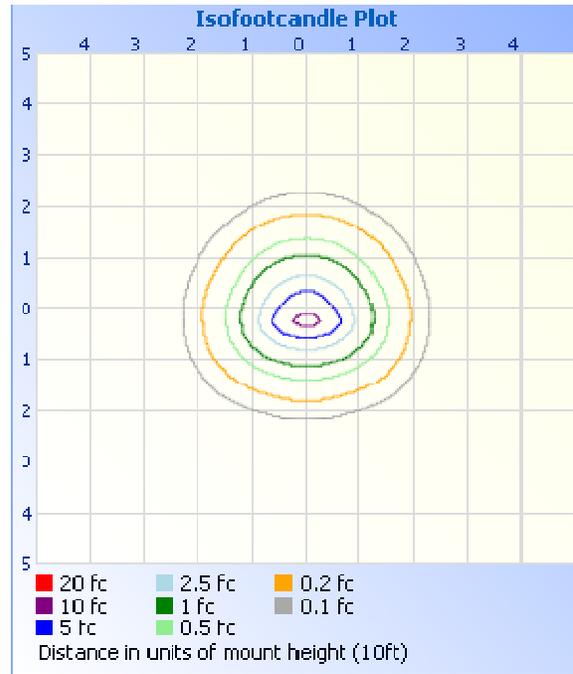
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	685.6	35.7
0-40	1059	55.1
0-60	1641	85.3
60-90	282.0	14.7
0-90	1923	100.0
90-180	0.0	0.0
0-180	1923	100.0

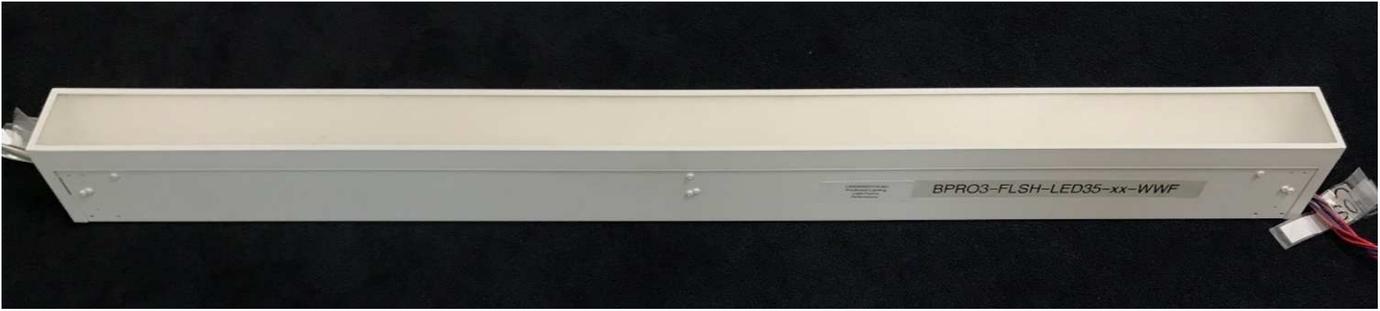
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	82.1	4.3
10-20	249.0	12.9
20-30	354.5	18.4
30-40	373.2	19.4
40-50	331.6	17.2
50-60	250.7	13.0
60-70	164.1	8.5
70-80	91.1	4.7
80-90	26.9	1.4

Spacing Criterion at 25°C

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

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:

A handwritten signature in black ink, appearing to read "Kellen Murakami".

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read "Vladimir Kozak".

Vladimir Kozak
Engineering Supervisor
Lighting Division