

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104359650

Date: June 11, 2020

REPORT NO. 104359650LAX-005B

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-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 LAN2006021315-005.

DATES OF TESTS: June 10, 2020

SUMMARY

Model No.:	BPRO5-FLSH-LED35-LO-4-WWF
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2056
Total Power (W)	15.40
Luminaire Efficacy (LPW)	133.5
Power Factor	0.990

EQUIPMENT LIST

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

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.

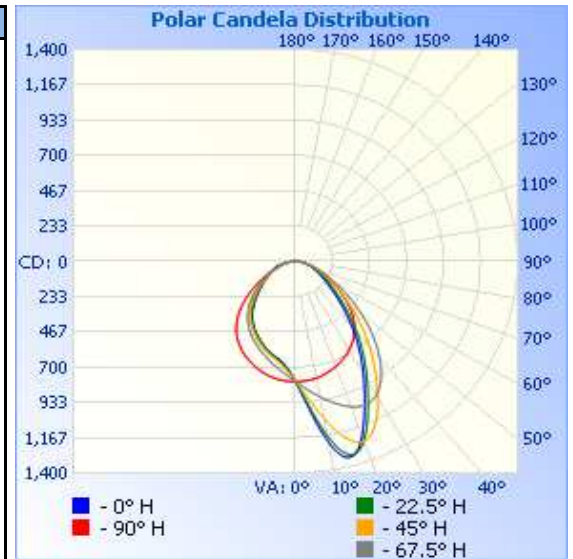
RESULTS OF TEST

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)
LAN2006021315-005	Up	120.0	129.7	15.40	0.990	2056	133.5

Intensity (Candlepower) Summary at 25°C - Candelas

	Angle	0	22.5	45	67.5	90
	90	0	0	0	0	0
W A L L S I D E	85	26	29	30	30	28
	80	56	58	63	64	60
	75	85	87	100	102	94
	70	115	119	143	149	133
	65	148	157	196	212	185
	60	190	206	260	300	254
	55	243	267	343	413	339
	50	316	350	449	546	429
	45	416	461	577	686	513
	40	548	595	719	823	580
	35	698	744	873	941	634
	30	856	901	1037	1020	676
	25	1032	1082	1189	1046	711
	20	1228	1262	1264	1023	740
	15	1340	1322	1205	971	764
	10	1218	1176	1058	911	782
	5	975	955	908	850	792
	0	794	794	794	794	794
R O O M S I D E	5	697	702	715	748	792
	10	650	655	667	706	782
	15	623	626	634	668	764
	20	590	594	603	632	740
	25	553	557	568	596	711
	30	516	520	530	558	676
	35	472	477	490	516	634
	40	418	424	443	468	580
	45	358	365	388	412	513
	50	300	304	326	350	429
	55	248	249	264	282	339
	60	206	202	208	218	254
	65	172	162	161	163	185
	70	142	128	120	120	133
	75	112	98	85	84	94
	80	75	65	53	54	60
	85	33	29	24	25	28
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

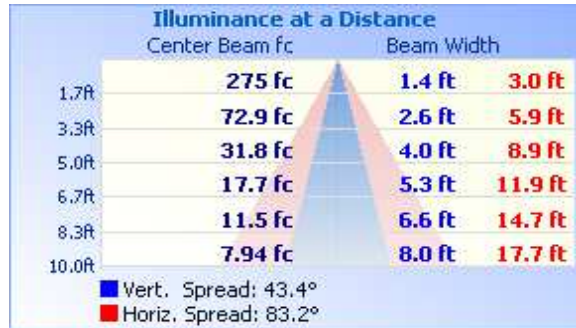


RESULTS OF TEST (cont'd)

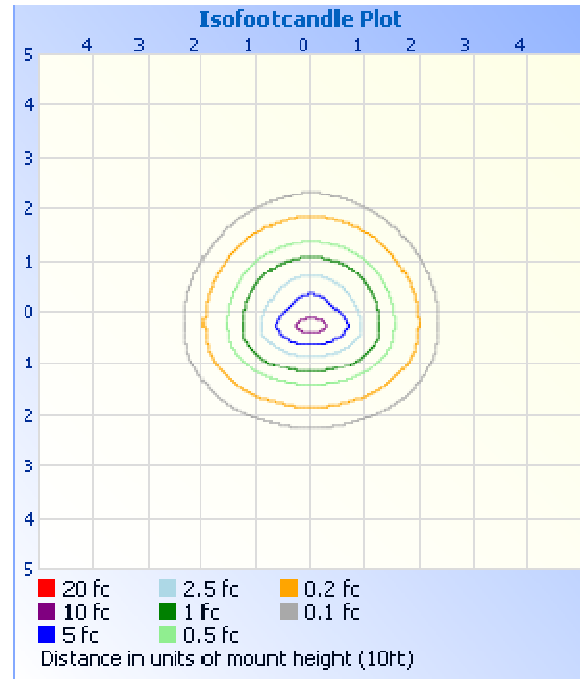
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	706.2	34.4
0-40	1116	54.3
0-60	1751	85.2
60-90	304.6	14.8
0-90	2056	100.0
90-180	0.0	0.0
0-180	2056	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	79.2	3.9
10-20	251.8	12.2
20-30	375.2	18.3
30-40	410.0	19.9
40-50	365.1	17.8
50-60	270.0	13.1
60-70	174.5	8.5
70-80	99.1	4.8
80-90	31.0	1.5

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.28
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:

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