

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: October 2, 2020

REPORT NO. 104464711LAX-017

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-SO-4-WWG-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50G2 - 832MAMP

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 Production sample of model number BPRO5-FLSH-LED35-SO-4-WWG-DM01. The sample was received by Intertek on September 29, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2009290928-001.

DATES OF TESTS: October 1, 2020

SUMMARY

Model No.:	BPRO5-FLSH-LED35-SO-4-WWG-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4171
Total Power (W)	30.99
Luminaire Efficacy (LPW)	134.6
Power Factor	0.979

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/01/20
AC Source	CW1251P	000944	VBU	VBU	10/01/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/01/20
Tape Measure	33-428	001491	VBU	VBU	10/01/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	10/01/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/01/20

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.

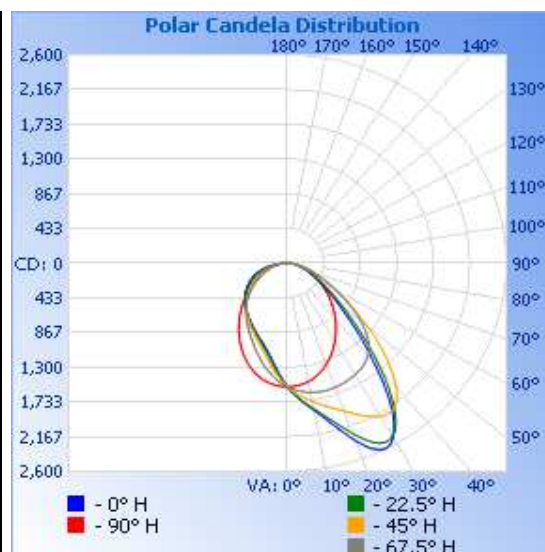
RESULTS OF TEST

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)
LAN2009290928-001	Up	120.0	263.6	30.99	0.979	4171	134.6

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	56	55	61	64	63
	80	108	109	130	141	131
	75	163	169	213	227	199
	70	228	240	317	334	266
	65	308	332	458	475	341
	60	419	456	654	666	427
	55	570	631	919	902	529
	50	793	885	1263	1149	643
	45	1121	1249	1655	1357	762
	40	1582	1730	2008	1491	883
	35	2133	2215	2203	1565	1004
	30	2510	2496	2206	1606	1127
	25	2565	2472	2096	1633	1243
	20	2352	2259	1964	1649	1346
	15	2083	2030	1853	1652	1431
	10	1869	1850	1754	1637	1494
	5	1707	1703	1654	1600	1530
	0	1542	1542	1542	1542	1542
R O O M S I D E	5	1348	1368	1398	1460	1530
	10	1180	1202	1251	1355	1494
	15	1062	1080	1125	1239	1431
	20	983	997	1028	1125	1346
	25	920	930	952	1022	1243
	30	861	869	886	929	1127
	35	809	811	821	846	1004
	40	762	756	754	765	883
	45	712	701	683	680	762
	50	656	643	608	589	643
	55	598	580	533	496	529
	60	537	513	454	407	427
	65	473	442	375	327	341
	70	400	368	296	255	266
	75	314	288	219	190	199
	80	215	202	145	126	131
	85	116	112	74	62	63
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

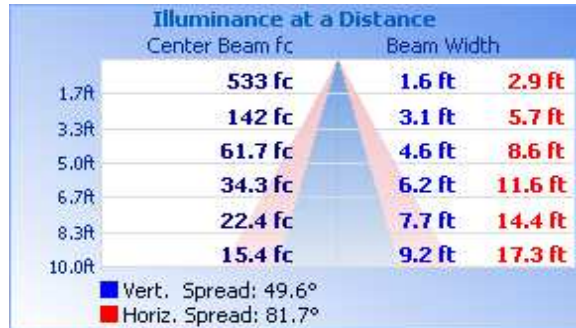


RESULTS OF TEST (cont'd)

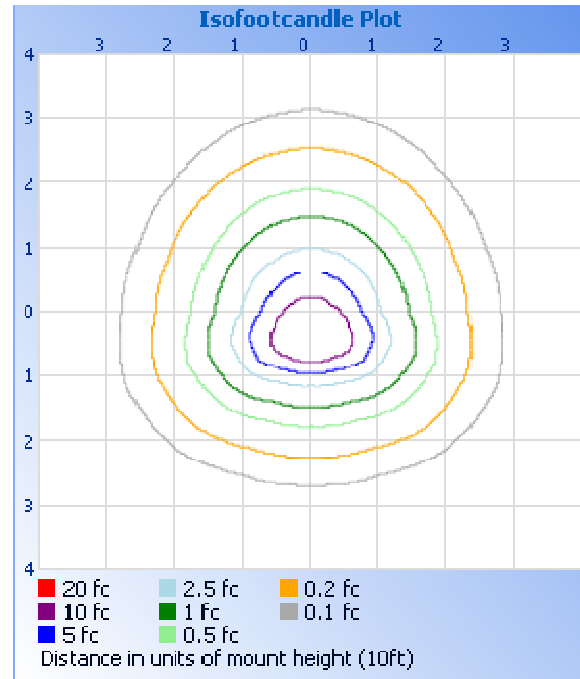
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1266	30.4
0-40	2115	50.7
0-60	3468	83.1
60-90	703.4	16.9
0-90	4171	100.0
90-180	0.0	0.0
0-180	4171	100.0

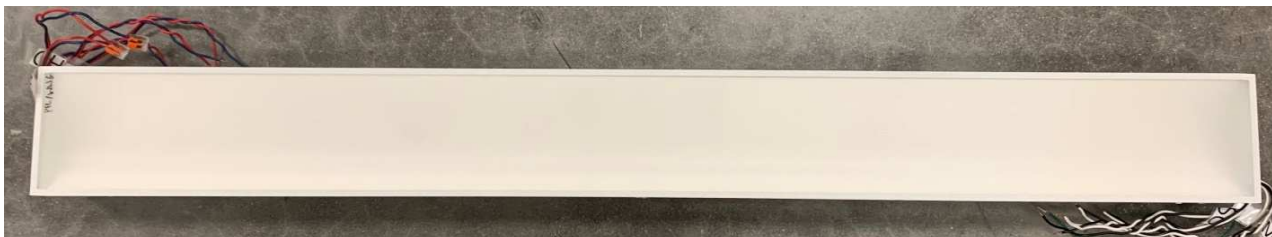
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	145.3	3.5
10-20	425.4	10.2
20-30	695.7	16.7
30-40	848.2	20.3
40-50	771.7	18.5
50-60	581.6	13.9
60-70	391.7	9.4
70-80	230.8	5.5
80-90	80.9	1.9

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.46

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:

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

Vladimir Kozak
Engineering Supervisor
Lighting Division