

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104356171

Date: June 9, 2020

REPORT NO. 104356171LAX-001A

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-SO-4-WWF

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. SO - OSRAM OTI50G2 - 868MAMP

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-SO-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 5, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	4202
Total Power (W)	31.69
Luminaire Efficacy (LPW)	132.6
Power Factor	0.980

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	06/05/20
AC Source	CW1251P	000944	VBU	VBU	06/05/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	06/05/20
Tape Measure	33-428	001491	VBU	VBU	06/05/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	06/05/20
Temp. & RH Meter	Testo 622	001910	04/15/20	04/15/21	06/05/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	06/05/20

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.

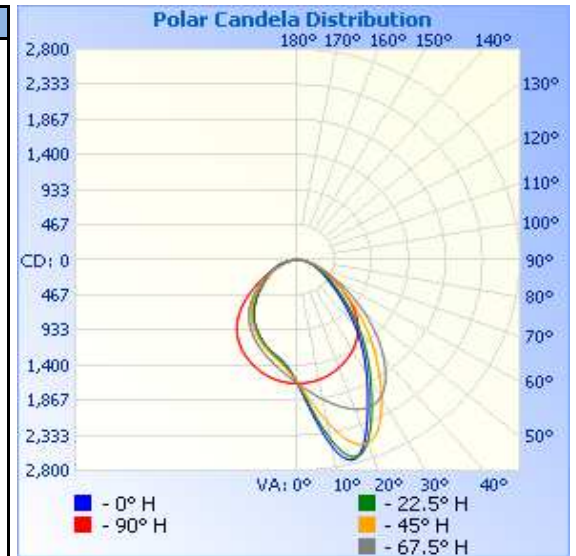
RESULTS OF TEST

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	269.5	31.69	0.980	4202	132.6

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	59	62	62	62	57
	80	118	120	128	130	122
	75	175	178	203	208	191
	70	233	242	292	304	272
	65	299	319	398	435	376
	60	382	416	531	614	517
	55	492	543	702	846	690
	50	641	716	920	1118	878
	45	852	945	1180	1408	1049
	40	1121	1222	1471	1690	1188
	35	1424	1519	1782	1935	1299
	30	1744	1844	2116	2102	1389
	25	2103	2212	2433	2156	1462
	20	2502	2580	2592	2112	1524
	15	2744	2709	2483	2008	1575
	10	2516	2422	2191	1884	1613
	5	2028	1979	1880	1759	1634
	0	1639	1639	1639	1639	1639
R O O M S I D E	5	1431	1439	1468	1538	1634
	10	1324	1334	1362	1449	1613
	15	1263	1269	1288	1366	1575
	20	1196	1202	1221	1288	1524
	25	1119	1126	1148	1212	1462
	30	1042	1049	1070	1132	1389
	35	954	964	989	1045	1299
	40	852	861	896	946	1188
	45	734	744	786	834	1049
	50	616	623	664	707	878
	55	510	511	540	573	690
	60	422	413	427	444	517
	65	351	332	329	332	376
	70	291	263	245	244	272
	75	230	200	174	172	191
	80	158	135	109	109	122
	85	76	64	50	50	57
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

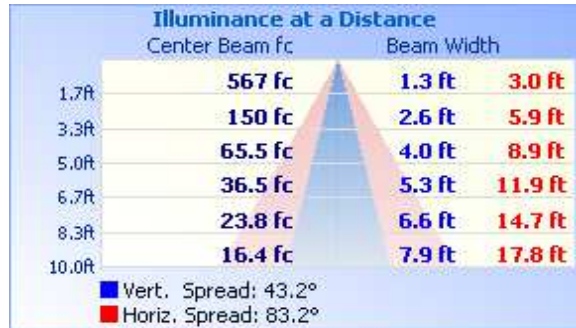


RESULTS OF TEST (cont'd)

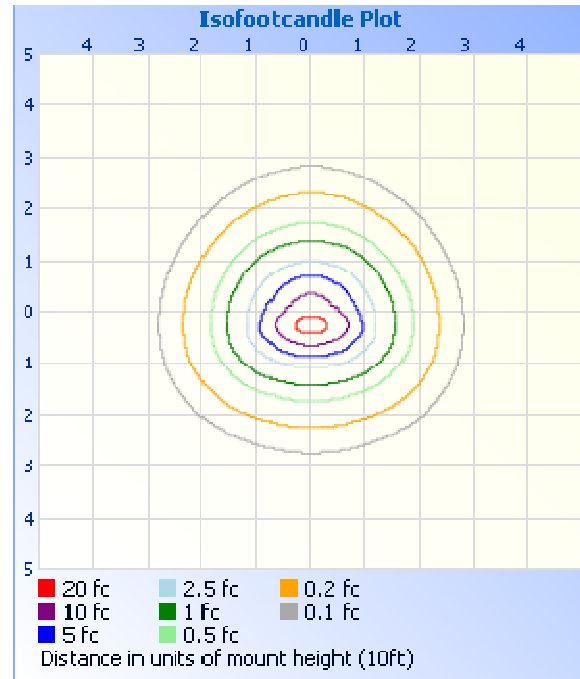
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1446	34.4
0-40	2282	54.3
0-60	3579	85.2
60-90	623.4	14.8
0-90	4202	100.0
90-180	0.0	0.0
0-180	4202	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	163.3	3.9
10-20	516.0	12.3
20-30	766.4	18.2
30-40	836.2	19.9
40-50	745.7	17.7
50-60	551.4	13.1
60-70	355.7	8.5
70-80	202.6	4.8
80-90	65.1	1.5

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.26
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