

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: October 1, 2020

REPORT NO. 104464711LAX-014

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO4-FLSH-LED35-HO-4-WWG-DM01

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI50G2 - 1077MAMP

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 BPRO4-FLSH-LED35-HO-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.:	BPRO4-FLSH-LED35-HO-4-WWG-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	5126
Total Power (W)	40.52
Luminaire Efficacy (LPW)	126.5
Power Factor	0.986

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.

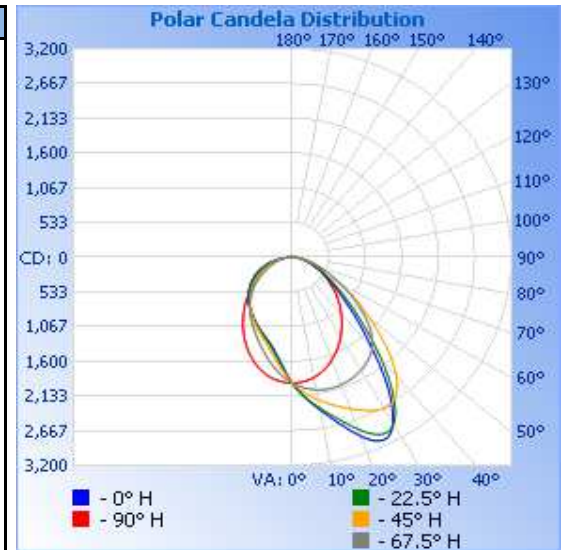
RESULTS OF TEST

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	342.4	40.52	0.986	5126	126.5

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	59	60	72	79	78
	80	126	131	161	172	163
	75	196	210	266	278	248
	70	283	303	399	407	333
	65	390	423	577	577	426
	60	530	580	814	801	534
	55	716	789	1121	1075	661
	50	958	1074	1508	1367	804
	45	1314	1466	1943	1624	955
	40	1790	1992	2358	1811	1107
	35	2429	2563	2624	1929	1258
	30	2936	2956	2682	2005	1410
	25	3104	3004	2599	2056	1553
	20	2923	2811	2475	2085	1682
	15	2643	2571	2354	2091	1790
	10	2388	2357	2228	2068	1869
	5	2170	2157	2089	2014	1916
	0	1930	1930	1930	1930	1930
R O O M S I D E	5	1674	1695	1734	1817	1916
	10	1470	1491	1548	1683	1869
	15	1338	1355	1402	1540	1790
	20	1252	1263	1293	1406	1682
	25	1178	1187	1206	1284	1553
	30	1106	1112	1125	1174	1410
	35	1039	1038	1044	1070	1258
	40	975	967	959	969	1107
	45	908	894	868	861	955
	50	832	816	772	745	804
	55	749	729	673	627	661
	60	662	637	572	514	534
	65	571	541	470	412	426
	70	470	441	368	321	333
	75	355	336	269	237	248
	80	230	224	175	156	163
	85	111	111	86	76	78
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

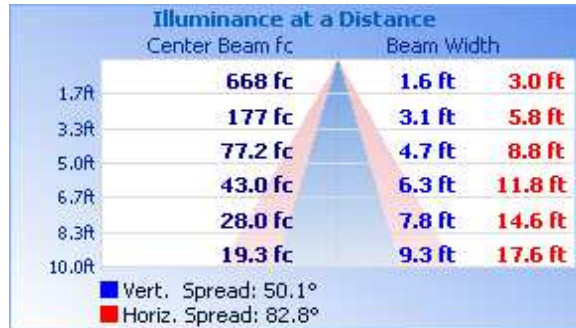


RESULTS OF TEST (cont'd)

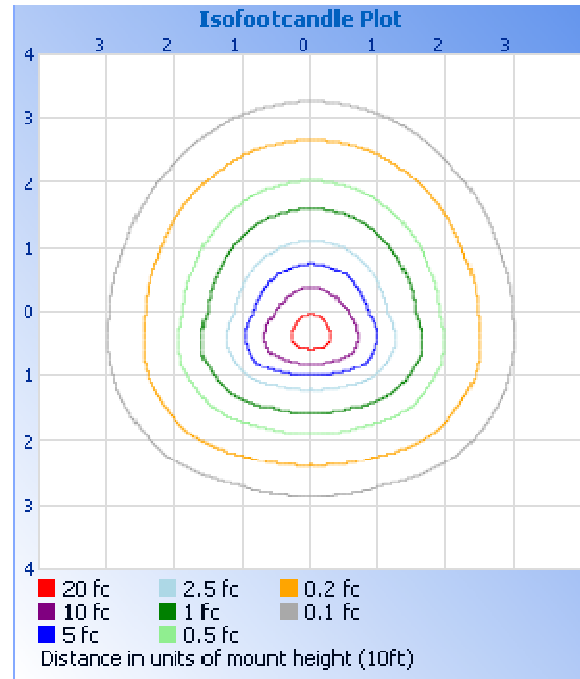
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1581	30.9
0-40	2611	50.9
0-60	4268	83.3
60-90	857.8	16.7
0-90	5126	100.0
90-180	0.0	0.0
0-180	5126	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	182.4	3.6
10-20	535.2	10.4
20-30	863.8	16.9
30-40	1030	20.1
40-50	937.6	18.3
50-60	719.3	14.0
60-70	486.6	9.5
70-80	280.8	5.5
80-90	90.3	1.8

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.60
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.44

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