

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: October 2, 2020

REPORT NO. 104464711LAX-018

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-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 2, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	5269
Total Power (W)	40.76
Luminaire Efficacy (LPW)	129.3
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	10/02/20
AC Source	CW1251P	000944	VBU	VBU	10/02/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/02/20
Tape Measure	33-428	001491	VBU	VBU	10/02/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	10/02/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/02/20

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.

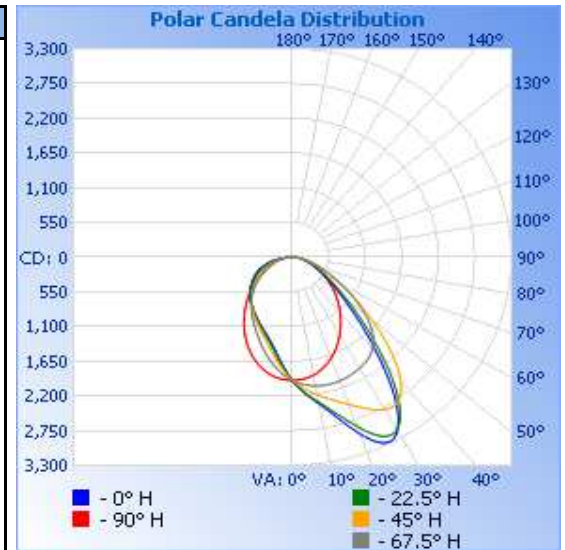
RESULTS OF TEST

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	344.4	40.76	0.986	5269	129.3

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	71	71	76	82	80
	80	135	138	163	178	166
	75	204	214	268	287	251
	70	286	304	400	422	337
	65	387	419	578	601	431
	60	526	576	825	843	540
	55	716	798	1160	1140	668
	50	993	1117	1595	1452	813
	45	1406	1577	2093	1713	963
	40	1982	2186	2536	1882	1116
	35	2682	2798	2783	1975	1270
	30	3166	3152	2786	2028	1426
	25	3244	3123	2645	2062	1572
	20	2977	2853	2480	2083	1703
	15	2636	2565	2338	2088	1811
	10	2364	2338	2216	2070	1890
	5	2161	2154	2091	2025	1936
	0	1952	1952	1952	1952	1952
R O O M S I D E	5	1710	1735	1772	1848	1936
	10	1497	1524	1587	1716	1890
	15	1345	1368	1425	1570	1811
	20	1244	1260	1301	1424	1703
	25	1162	1176	1203	1291	1572
	30	1088	1096	1118	1174	1426
	35	1022	1024	1036	1068	1270
	40	961	954	952	965	1116
	45	898	885	862	858	963
	50	829	811	768	744	813
	55	754	733	672	626	668
	60	678	647	574	514	540
	65	596	559	474	412	431
	70	506	465	374	322	337
	75	398	366	277	239	251
	80	275	256	184	159	166
	85	150	144	95	78	80
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

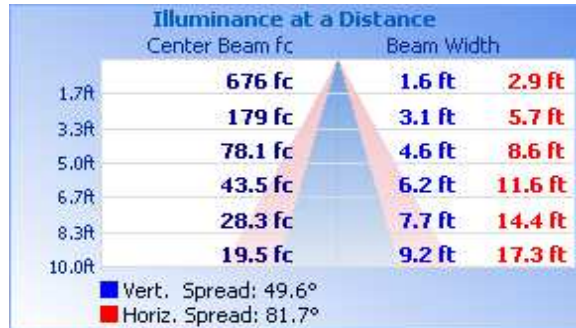


RESULTS OF TEST (cont'd)

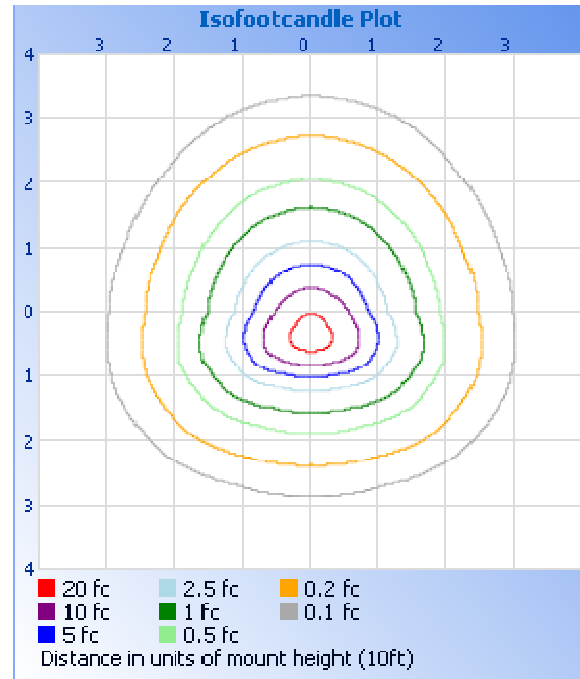
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1601	30.4
0-40	2672	50.7
0-60	4380	83.1
60-90	889.3	16.9
0-90	5269	100.0
90-180	0.0	0.0
0-180	5269	100.0

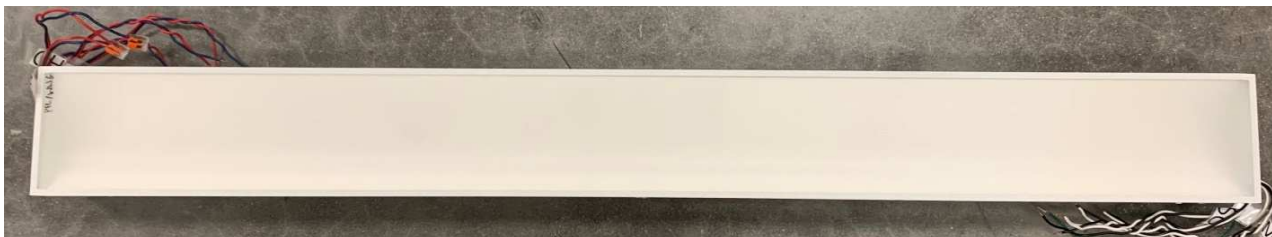
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	183.9	3.5
10-20	537.9	10.2
20-30	879.1	16.7
30-40	1071	20.3
40-50	973.9	18.5
50-60	734.2	13.9
60-70	494.6	9.4
70-80	291.7	5.5
80-90	103.1	2.0

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