

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104464711

Date: October 1, 2020

REPORT NO. 104464711LAX-016

TEST OF ONE LED LUMINAIRE

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

LED MODEL NO. LUMILEDS 2835E 9V

DRIVER MODEL NO. OSRAM OTI30G2 - 587MAMP

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-MO-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-MO-4-WWG-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3011
Total Power (W)	22.11
Luminaire Efficacy (LPW)	136.2
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.

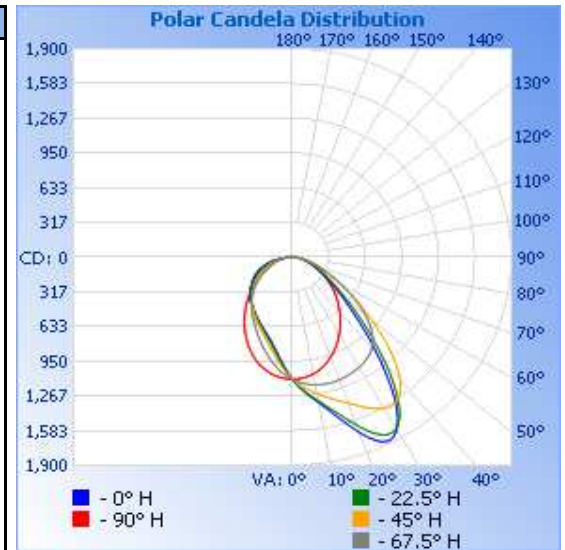
RESULTS OF TEST

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	120.1	186.7	22.11	0.986	3011	136.2

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	40	40	44	46	45
	80	77	79	94	102	95
	75	117	122	154	164	143
	70	163	174	230	241	192
	65	221	240	332	343	246
	60	302	330	472	480	309
	55	410	457	664	650	382
	50	569	638	913	830	464
	45	803	905	1198	979	550
	40	1137	1250	1450	1075	636
	35	1531	1603	1590	1128	724
	30	1811	1802	1592	1158	812
	25	1855	1783	1511	1178	896
	20	1701	1629	1416	1190	970
	15	1505	1464	1336	1192	1032
	10	1351	1334	1266	1181	1077
	5	1234	1229	1194	1155	1103
	0	1112	1112	1112	1112	1112
R O O M S I D E	5	975	987	1009	1053	1103
	10	853	867	903	978	1077
	15	768	780	812	895	1032
	20	710	719	742	813	970
	25	664	671	687	737	896
	30	622	626	639	671	812
	35	584	585	592	610	724
	40	550	546	544	552	636
	45	514	506	493	491	550
	50	475	464	439	426	464
	55	433	419	384	358	382
	60	389	370	328	294	309
	65	342	319	271	236	246
	70	289	266	214	185	192
	75	227	208	158	137	143
	80	156	146	105	91	95
	85	84	81	54	45	45
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

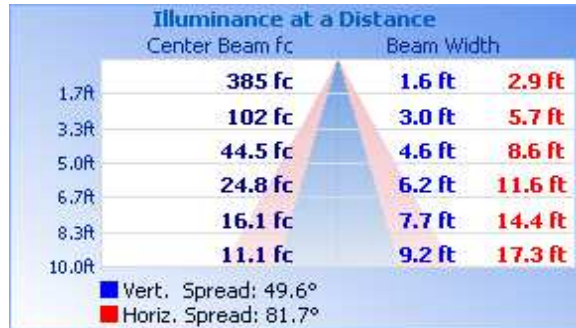


RESULTS OF TEST (cont'd)

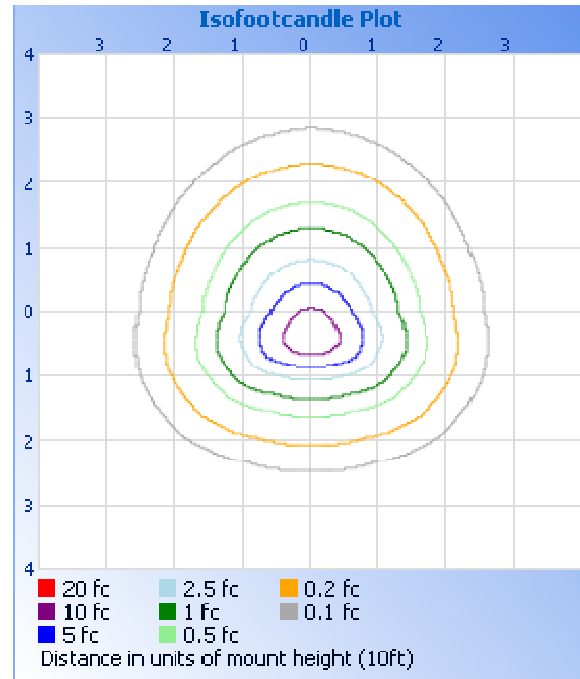
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	913.8	30.3
0-40	1526	50.7
0-60	2503	83.1
60-90	508.0	16.9
0-90	3011	100.0
90-180	0.0	0.0
0-180	3011	100.0

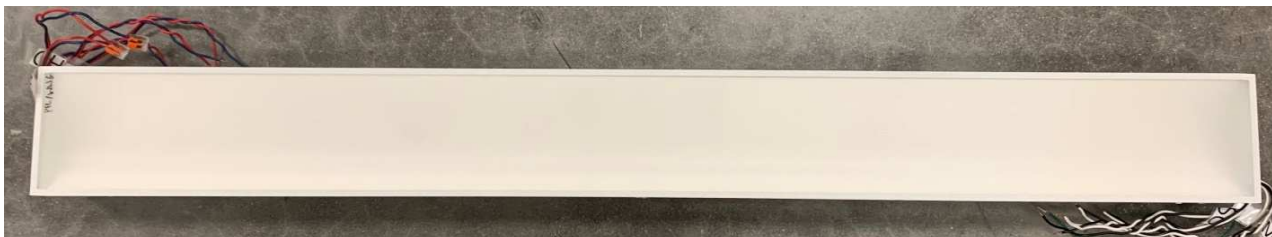
Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	104.9	3.5
10-20	307.0	10.2
20-30	502.0	16.7
30-40	612.0	20.3
40-50	557.1	18.5
50-60	420.0	13.9
60-70	282.9	9.4
70-80	166.7	5.5
80-90	58.4	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