

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104473769

Date: October 8, 2020

REPORT NO. 104473769LAX-003

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-MO-4-WGZ-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 BPRO2-FLSH-LED35-MO-4-WGZ-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 LAN2009290928-003.

DATES OF TESTS: October 8, 2020

SUMMARY

Model No.:	BPRO2-FLSH-LED35-MO-4-WGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2506
Total Power (W)	22.22
Luminaire Efficacy (LPW)	112.8
Power Factor	0.983

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/08/20
AC Source	CW1251P	000944	VBU	VBU	10/08/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/08/20
Tape Measure	33-428	001491	VBU	VBU	10/08/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/08/20

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.

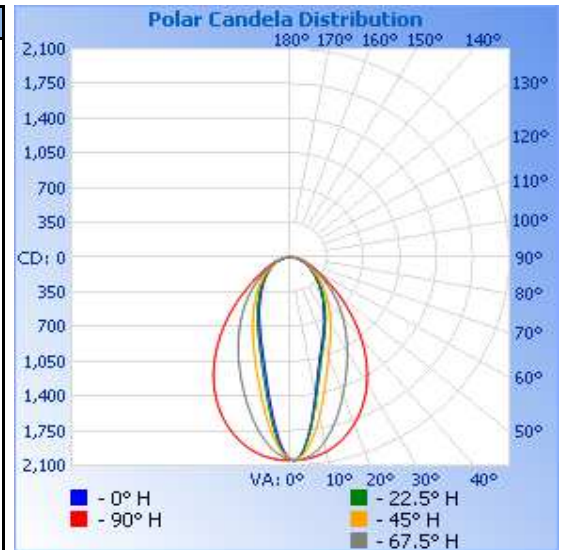
RESULTS OF TEST

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)
LAN2009290928-003	Up	119.9	188.4	22.22	0.983	2506	112.8

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	24	23	26	32	38
	80	56	56	61	71	81
	75	90	90	97	112	126
	70	127	128	137	158	176
	65	168	170	183	216	239
	60	215	216	238	290	328
	55	267	270	300	387	456
	50	324	330	373	504	628
	45	391	398	456	637	834
	40	463	477	550	779	1053
	35	550	566	654	929	1268
	30	645	668	772	1091	1469
	25	764	787	904	1272	1644
	20	898	925	1071	1475	1790
	15	1080	1118	1304	1692	1906
	10	1395	1434	1620	1888	1989
	5	1848	1856	1929	2018	2035
	0	2038	2038	2038	2038	2038
R O O M S I D E	5	1704	1754	1826	1945	2035
	10	1290	1355	1503	1770	1989
	15	1017	1071	1222	1561	1906
	20	836	881	1013	1356	1790
	25	701	738	851	1168	1644
	30	593	623	716	998	1469
	35	506	530	604	845	1268
	40	431	452	510	703	1053
	45	367	383	428	575	834
	50	311	322	355	458	628
	55	262	268	291	357	456
	60	220	221	233	273	328
	65	180	179	183	207	239
	70	139	140	140	155	176
	75	99	102	101	112	126
	80	61	64	65	72	81
	85	25	28	30	34	38
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

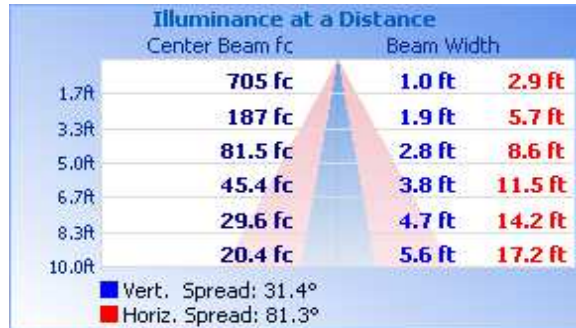


RESULTS OF TEST (cont'd)

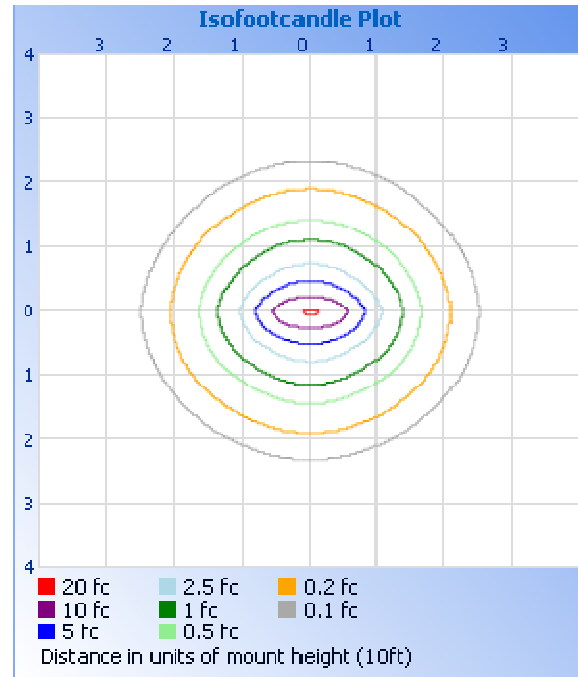
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1020	40.7
0-40	1482	59.2
0-60	2169	86.6
60-90	337.0	13.4
0-90	2506	100.0
90-180	0.0	0.0
0-180	2506	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	171.3	6.8
10-20	382.9	15.3
20-30	465.3	18.6
30-40	463.0	18.5
40-50	394.9	15.8
50-60	291.7	11.6
60-70	193.4	7.7
70-80	110.5	4.4
80-90	33.0	1.3

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.80

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