

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104484038

Date: October 23, 2020

REPORT NO. 104484038LAX-017

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-FLSH-LED35-HO-4-MGZ-DM01
LED MODEL NO. LUMILEDS 2835E 9V
DRIVER MODEL NO. OSRAM OTI20G2 - 391MAMP

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-MGZ-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 LAN2009290928-002.

DATES OF TESTS: October 23, 2020

SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	5249
Total Power (W)	40.77
Luminaire Efficacy (LPW)	128.7
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	10/23/20
AC Source	CW1251P	000944	VBU	VBU	10/23/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/23/20
Tape Measure	33-428	001491	VBU	VBU	10/23/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/23/20
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	10/23/20

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.

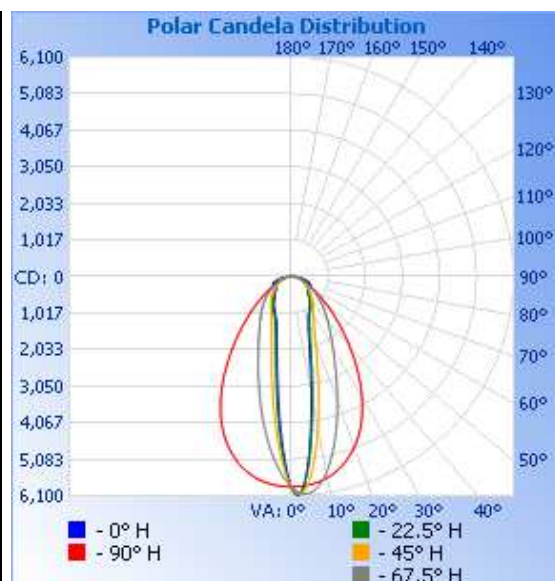
RESULTS OF TEST

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)
LAN2009290928-002	Up	120.0	344.5	40.77	0.986	5249	128.7

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	143	136	84	69	72
	80	273	254	158	148	156
	75	413	361	229	236	245
	70	518	431	299	338	350
	65	564	467	374	466	487
	60	568	493	459	623	685
	55	576	533	554	810	962
	50	610	594	660	1018	1346
	45	673	676	774	1251	1840
	40	761	782	895	1515	2449
	35	871	897	1032	1840	3148
	30	987	1022	1207	2273	3872
	25	1138	1187	1469	2874	4524
	20	1378	1462	1936	3687	5046
	15	1891	2045	2804	4642	5430
	10	3123	3332	4198	5532	5680
	5	5233	5310	5691	6031	5808
	0	5853	5853	5853	5853	5853
R O O M S I D E	5	3843	4067	4474	5154	5808
	10	2264	2464	3041	4258	5680
	15	1552	1666	2097	3378	5430
	20	1245	1309	1583	2662	5046
	25	1086	1123	1295	2134	4524
	30	968	997	1113	1763	3872
	35	845	882	980	1490	3148
	40	728	762	866	1277	2449
	45	634	655	754	1092	1840
	50	567	568	640	917	1346
	55	532	504	537	748	962
	60	532	463	445	589	685
	65	539	441	364	448	487
	70	503	416	292	330	350
	75	404	358	223	231	245
	80	266	257	154	146	156
	85	136	140	81	68	72
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

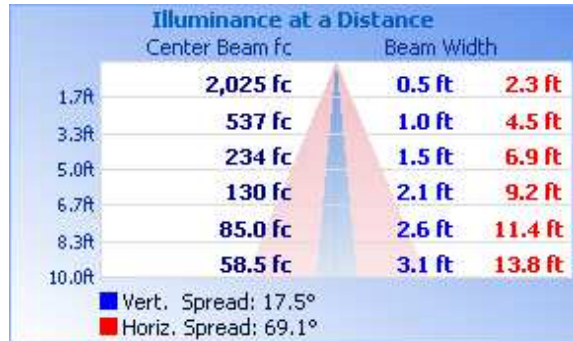


RESULTS OF TEST (cont'd)

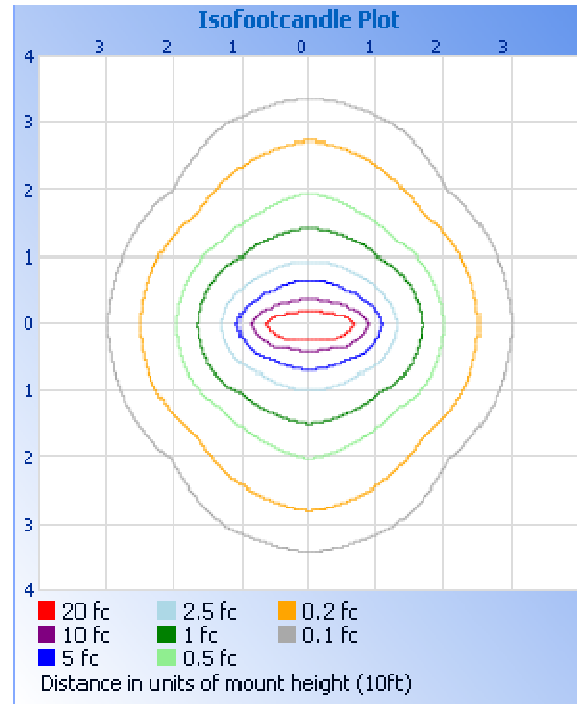
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2190	41.7
0-40	3061	58.3
0-60	4391	83.7
60-90	857.5	16.3
0-90	5249	100.0
90-180	0.0	0.0
0-180	5249	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	448.4	8.5
10-20	835.2	15.9
20-30	906.6	17.3
30-40	870.8	16.6
40-50	744.7	14.2
50-60	585.7	11.2
60-70	446.9	8.5
70-80	300.3	5.7
80-90	110.3	2.1

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.52

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