

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104484038

Date: October 21, 2020

REPORT NO. 104484038LAX-005

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-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 BPRO2-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 LAN2009290928-003.

DATES OF TESTS: October 21, 2020

SUMMARY

Model No.:	BPRO2-FLSH-LED35-HO-4-MGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4380
Total Power (W)	40.76
Luminaire Efficacy (LPW)	107.5
Power Factor	0.985

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/21/20
AC Source	CW1251P	000944	VBU	VBU	10/21/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/21/20
Tape Measure	33-428	001491	VBU	VBU	10/21/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/21/20
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	10/21/20

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.

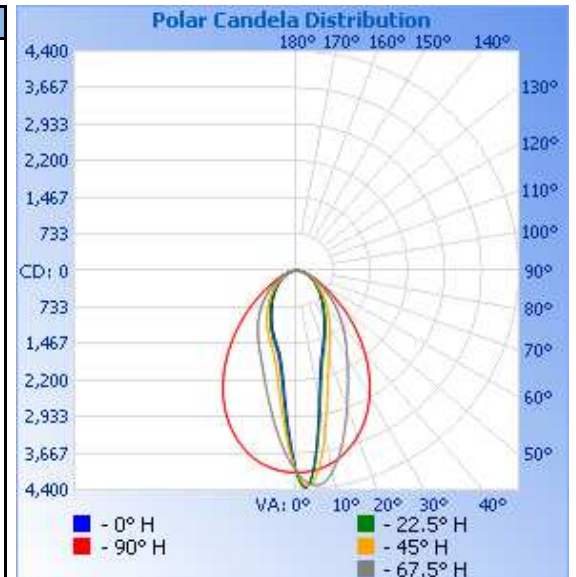
RESULTS OF TEST

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	120.0	344.7	40.76	0.985	4380	107.5

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	44	43	47	54	60
	80	94	94	103	119	130
	75	154	154	166	190	208
	70	220	220	237	277	303
	65	294	294	319	391	436
	60	373	376	412	536	631
	55	462	466	517	716	907
	50	556	565	636	926	1258
	45	664	677	774	1160	1658
	40	783	806	933	1414	2081
	35	922	955	1117	1694	2501
	30	1091	1134	1330	2014	2900
	25	1300	1351	1576	2414	3248
	20	1554	1608	1884	2930	3538
	15	1885	1965	2395	3539	3767
	10	2609	2721	3275	4101	3931
	5	3953	3991	4202	4322	4022
	0	4036	4036	4036	4036	4036
R O O M S I D E	5	2593	2736	3000	3470	4022
	10	1806	1898	2166	2866	3931
	15	1527	1575	1737	2364	3767
	20	1339	1386	1514	1996	3538
	25	1157	1205	1337	1733	3248
	30	991	1036	1162	1520	2900
	35	846	886	998	1329	2501
	40	717	754	849	1142	2081
	45	606	635	715	961	1658
	50	507	529	592	785	1258
	55	417	434	483	622	907
	60	338	349	384	476	631
	65	266	272	296	354	436
	70	199	204	218	256	303
	75	135	141	151	178	208
	80	76	83	91	110	130
	85	28	32	37	48	60
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

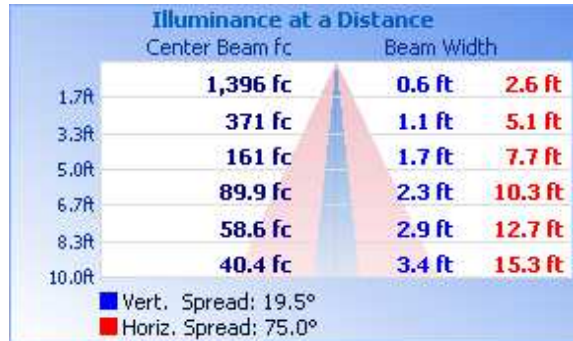


RESULTS OF TEST (cont'd)

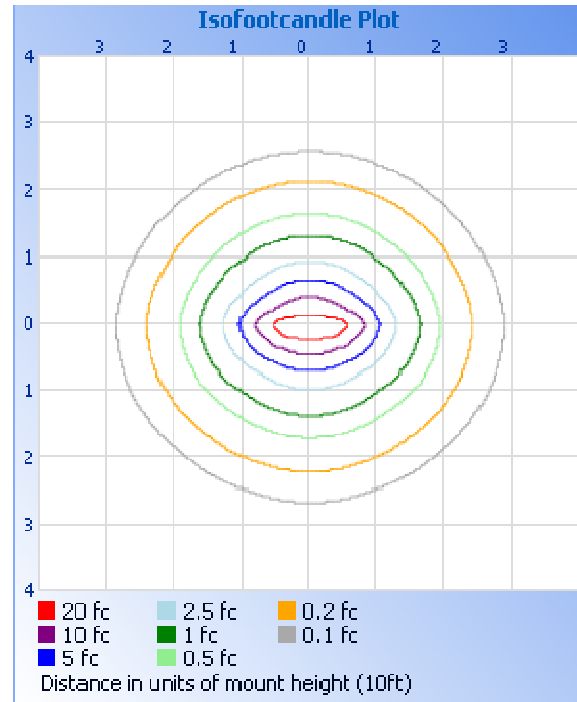
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1802	41.1
0-40	2612	59.6
0-60	3823	87.3
60-90	557.5	12.7
0-90	4380	100.0
90-180	0.0	0.0
0-180	4380	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	321.3	7.3
10-20	670.1	15.3
20-30	810.1	18.5
30-40	810.1	18.5
40-50	696.4	15.9
50-60	514.8	11.8
60-70	329.7	7.5
70-80	177.3	4.0
80-90	50.5	1.2

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.70

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