

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104484038

Date: October 21, 2020

REPORT NO. 104484038LAX-004

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO2-FLSH-LED35-SO-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-SO-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-SO-4-MGZ-DM01
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3484
Total Power (W)	31.06
Luminaire Efficacy (LPW)	112.2
Power Factor	0.982

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.

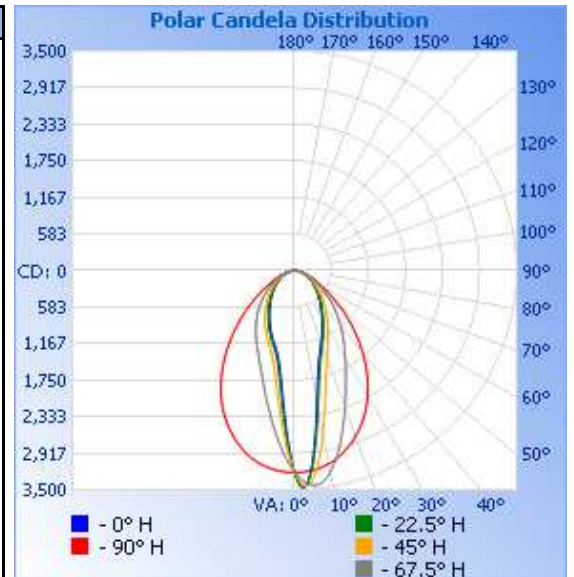
RESULTS OF TEST

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	263.5	31.06	0.982	3484	112.2

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	35	34	37	43	48
	80	74	75	82	94	104
	75	122	122	132	151	166
	70	174	175	188	221	241
	65	233	234	253	310	348
	60	296	299	328	427	503
	55	366	370	411	569	722
	50	442	450	506	736	1002
	45	527	538	615	922	1320
	40	622	640	741	1124	1656
	35	732	759	888	1346	1991
	30	868	901	1057	1602	2308
	25	1032	1074	1253	1920	2585
	20	1229	1278	1498	2331	2814
	15	1494	1562	1904	2813	2997
	10	2051	2163	2601	3260	3127
	5	3131	3173	3342	3437	3200
	0	3212	3212	3212	3212	3212
R O O M S I D E	5	2070	2178	2387	2760	3200
	10	1443	1509	1725	2278	3127
	15	1217	1254	1383	1879	2997
	20	1069	1103	1205	1588	2814
	25	923	960	1064	1377	2585
	30	792	825	925	1210	2308
	35	675	705	794	1056	1991
	40	573	600	676	909	1656
	45	484	505	569	764	1320
	50	405	422	472	624	1002
	55	334	346	384	494	722
	60	271	278	306	378	503
	65	214	217	236	281	348
	70	160	163	174	204	241
	75	109	113	120	141	166
	80	62	66	73	88	104
	85	24	26	30	38	48
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

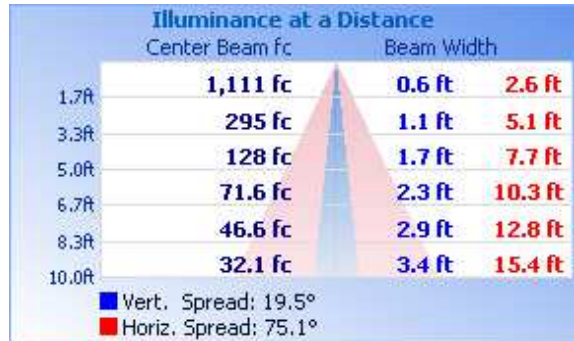


RESULTS OF TEST (cont'd)

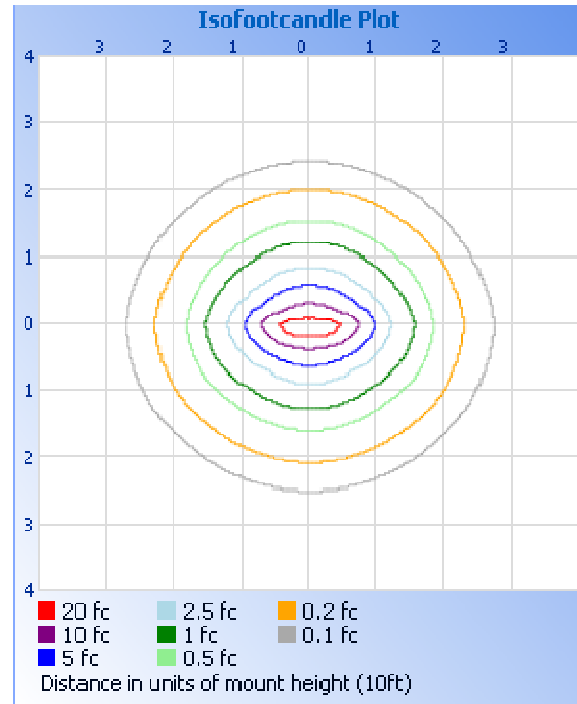
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1433	41.1
0-40	2077	59.6
0-60	3041	87.3
60-90	443.7	12.7
0-90	3484	100.0
90-180	0.0	0.0
0-180	3484	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	255.4	7.3
10-20	532.9	15.3
20-30	644.4	18.5
30-40	644.4	18.5
40-50	554.1	15.9
50-60	409.7	11.8
60-70	262.4	7.5
70-80	141.1	4.0
80-90	40.2	1.2

Spacing Criterion at 25°C

Spacing Criterion (0-180)	0.44
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