

# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104359650

Date: June 17, 2020

REPORT NO. 104361023LAX-003D

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO3-FLSH-LED35-HO-4-WWF  
LED MODEL NO. LUMILEDS 2835E 9V  
DRIVER MODEL NO. HO - OSRAM OTI50G2 - 1123MAMP

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 Prototype sample of model number BPRO3-FLSH-LED35-HO-4-WWF. The sample was received by Intertek on June 1, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2006021315-003.

DATES OF TESTS: June 17, 2020

## SUMMARY

Model No.:	BPRO3-FLSH-LED35-HO-4-WWF
Description:	LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4907
Total Power (W)	41.55
Luminaire Efficacy (LPW)	118.1
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	06/17/20
AC Source	CW1251P	000944	VBU	VBU	06/17/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	06/17/20
Tape Measure	33-428	001491	VBU	VBU	06/17/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	06/17/20
Temp. & RH Meter	Testo 622	001910	04/15/20	04/15/21	06/17/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	06/17/20

## 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.

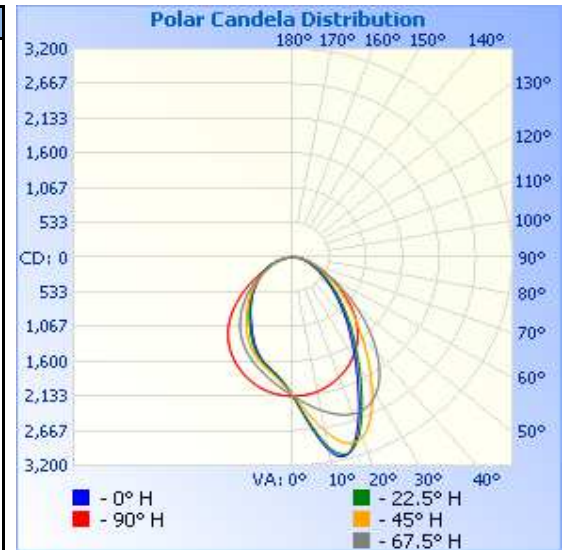
## RESULTS OF TEST

### 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)
LAN2006021315-003	Up	120.0	351.2	41.55	0.985	4907	118.1

### 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	51	51	61	66	67
	80	109	114	136	146	143
	75	176	184	224	234	225
	70	252	264	328	343	319
	65	342	360	453	485	444
	60	449	476	605	677	612
	55	578	620	786	927	826
	50	745	798	999	1231	1058
	45	944	1013	1250	1566	1278
	40	1192	1266	1547	1902	1468
	35	1469	1561	1904	2202	1627
	30	1824	1930	2306	2423	1760
	25	2264	2382	2689	2542	1872
	20	2770	2846	2949	2559	1964
	15	3124	3116	2952	2498	2038
	10	3005	2950	2712	2388	2093
	5	2540	2514	2392	2258	2124
	0	2132	2132	2132	2132	2132
R O O M  S I D E	5	1895	1908	1937	2014	2124
	10	1763	1771	1804	1905	2093
	15	1656	1670	1703	1802	2038
	20	1528	1554	1603	1702	1964
	25	1370	1406	1481	1597	1872
	30	1212	1247	1335	1477	1760
	35	1074	1102	1182	1340	1627
	40	953	976	1035	1185	1468
	45	837	857	898	1018	1278
	50	724	738	765	844	1058
	55	617	623	635	674	826
	60	519	518	514	522	612
	65	428	421	405	395	444
	70	340	331	307	292	319
	75	246	243	220	208	225
	80	150	153	138	133	143
	85	60	66	62	62	67
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

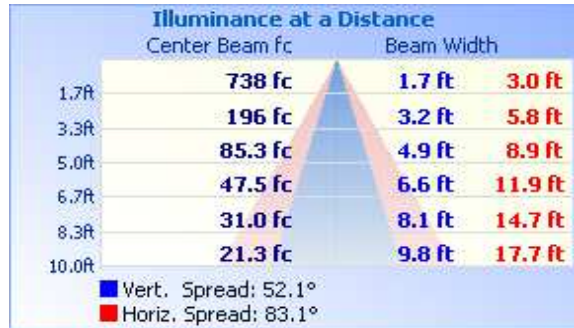


RESULTS OF TEST (cont'd)

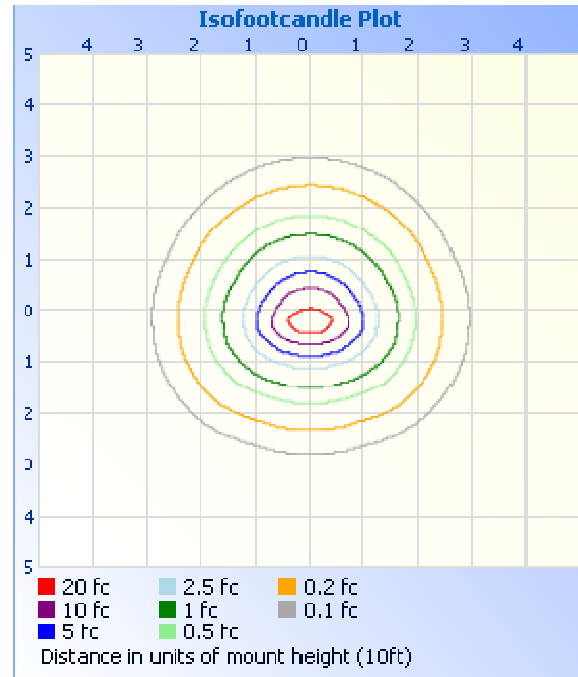
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1751	35.7
0-40	2704	55.1
0-60	4188	85.4
60-90	718.4	14.6
0-90	4907	100.0
90-180	0.0	0.0
0-180	4907	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	210.0	4.3
10-20	636.3	13.0
20-30	904.9	18.4
30-40	952.5	19.4
40-50	845.9	17.2
50-60	638.7	13.0
60-70	417.7	8.5
70-80	232.0	4.7
80-90	68.7	1.4

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.24

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