

## REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104359650

Date: June 11, 2020

REPORT NO. 104359650LAX-005D

TEST OF ONE LED LUMINAIRE

MODEL NO. BPRO5-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 BPRO5-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 LAN2006021315-005.

**DATES OF TESTS:** June 10, 2020

## SUMMARY

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

Criteria	Result
Total Lumen Output (Lumens)	5274
Total Power (W)	41.64
Luminaire Efficacy (LPW)	126.7
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	06/10/20
AC Source	CW1251P	000944	VBU	VBU	06/10/20
Power Analyzer	WT210	000945	10/02/19	10/02/20	06/10/20
Tape Measure	33-428	001491	VBU	VBU	06/10/20
Magnetic Level	581-9	001610	10/11/19	10/11/20	06/10/20
Temp. & RH Meter	Testo 622	001910	04/15/20	04/15/21	06/10/20
Thermometer	DPI8-C24	001782	10/15/19	10/15/20	06/10/20

## 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.

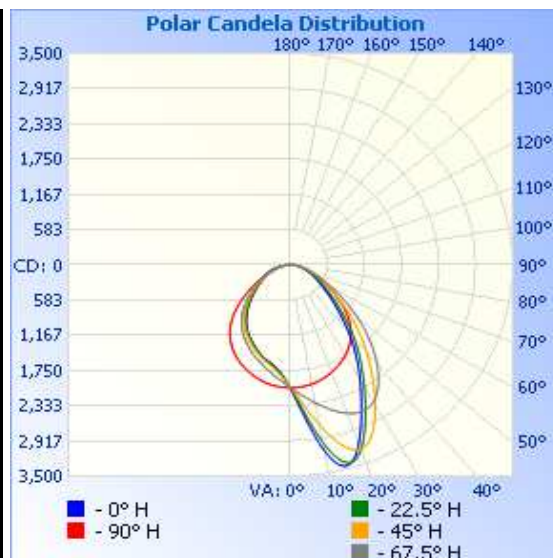
## RESULTS OF TEST

### 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)
LAN2006021315-005	Up	120.0	351.7	41.64	0.986	5274	126.7

### 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	69	76	77	78	72
	80	143	150	162	164	154
	75	218	225	257	262	241
	70	292	307	368	382	342
	65	377	406	503	546	473
	60	482	529	670	771	649
	55	619	689	886	1063	866
	50	805	905	1159	1406	1099
	45	1064	1191	1490	1770	1312
	40	1400	1541	1855	2117	1484
	35	1787	1919	2247	2417	1620
	30	2192	2328	2670	2616	1729
	25	2646	2793	3060	2676	1818
	20	3148	3251	3242	2613	1892
	15	3441	3387	3080	2481	1954
	10	3138	2998	2702	2327	1999
	5	2518	2440	2317	2174	2025
	0	2032	2032	2032	2032	2032
R O O M  S I D E	5	1793	1798	1830	1912	2025
	10	1668	1677	1708	1807	1999
	15	1597	1601	1623	1711	1954
	20	1512	1518	1542	1619	1892
	25	1417	1423	1450	1526	1818
	30	1322	1327	1353	1428	1729
	35	1210	1219	1250	1319	1620
	40	1075	1086	1131	1195	1484
	45	923	934	990	1053	1312
	50	772	780	834	893	1099
	55	639	637	676	721	866
	60	530	516	534	558	649
	65	442	415	410	418	473
	70	367	329	306	306	342
	75	290	250	215	216	241
	80	196	167	135	137	154
	85	90	76	60	62	72
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

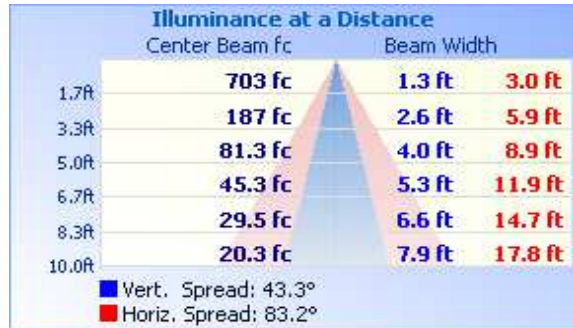


## RESULTS OF TEST (cont'd)

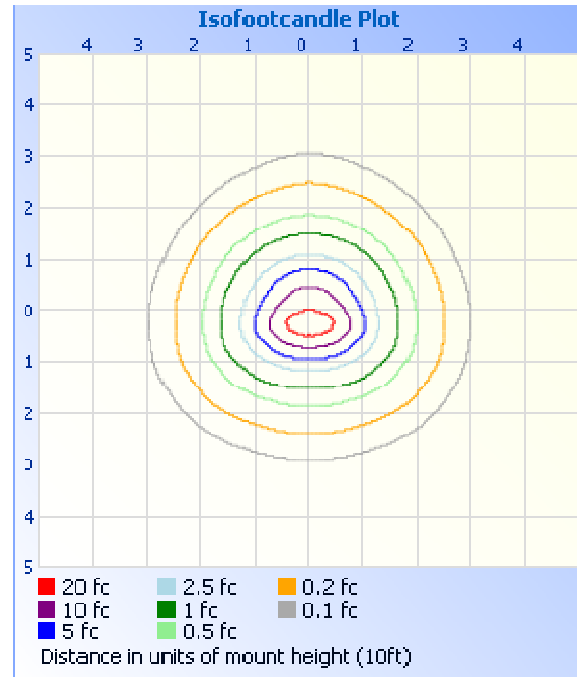
### Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	1810	34.3
0-40	2861	54.3
0-60	4492	85.2
60-90	782.0	14.8
0-90	5274	100.0
90-180	0.0	0.0
0-180	5274	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	202.7	3.8
10-20	644.5	12.2
20-30	962.3	18.2
30-40	1052	19.9
40-50	937.7	17.8
50-60	693.3	13.1
60-70	447.4	8.5
70-80	254.5	4.8
80-90	80.1	1.5

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.34

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