REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G104491851 Date: October 27, 2020

REPORT NO. 104491851LAX-015

TEST OF ONE INDIRECT LED LUMINAIRE

MODEL NO. BPRO5-LED35-SO-NW-CW
LED MODEL NO. LUMILEDS 2835
DRIVER MODEL NO. OSRAM OTI 50/120-277/1A4 DIM-1 L G2 - 868MA

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-01120100-0.

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-LED35-SO-NW-CW. The sample was received by Intertek on October 15, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2010151201-005.

DATES OF TESTS: October 27, 2020

SUMMARY

Model No.:	BPRO5-LED35-SO-NW-CW
Description:	Indirect LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	2728
Total Power (W)	32.75
Luminaire Efficacy (LPW)	83.30
Power Factor	0.981

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	10/27/20
AC Source	CW1251P	000944	VBU	VBU	10/27/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	10/27/20
Tape Measure	33-428	001491	VBU	VBU	10/27/20
Temp. & RH Meter	Testo 622	001897	04/22/20	04/22/21	10/27/20
Thermometer	DPi8-C24	001782	10/09/20	10/09/21	10/27/20

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.

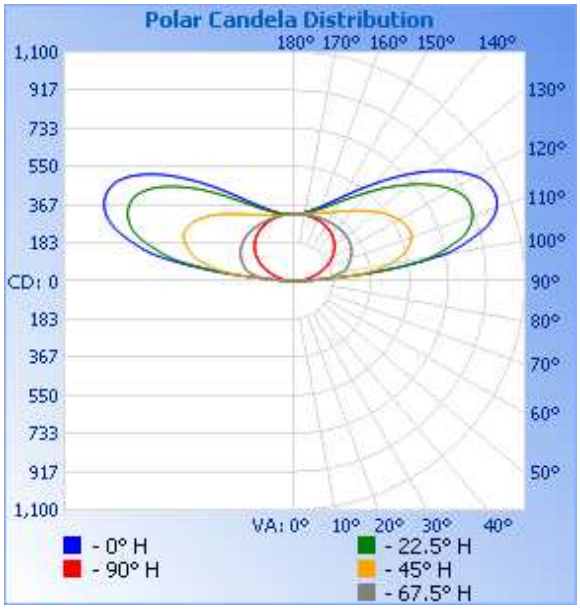
RESULTS OF TEST

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)
LAN2010151201-005	Down	120.0	278.2	32.75	0.980	2728	83.30

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	0	0	0	0	0
10	0	0	0	0	0
15	0	0	0	0	0
20	0	0	0	0	0
25	0	0	0	0	0
30	0	0	0	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0
95	208	260	243	148	28
100	711	662	453	225	60
105	924	832	548	261	96
110	1027	904	594	282	132
115	1044	915	600	299	168
120	1006	876	584	313	199
125	922	806	554	323	226
130	819	722	517	328	249
135	716	639	478	330	268
140	619	562	442	331	282
145	538	497	410	330	294
150	471	443	384	329	303
155	421	403	364	328	310
160	382	372	348	327	315
165	356	350	337	326	319
170	338	336	329	325	322
175	327	326	324	324	324
180	322	322	322	322	322

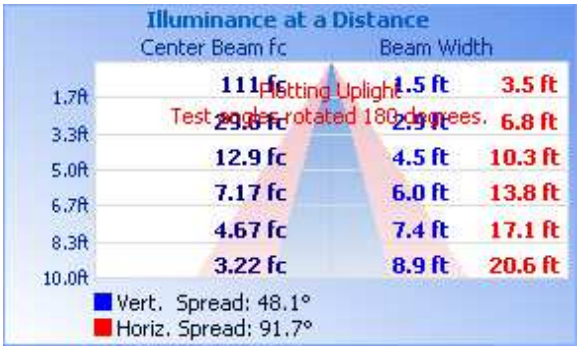


RESULTS OF TEST (cont'd)

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	0.0	0.0
0-40	0.0	0.0
0-60	0.0	0.0
60-90	0.0	0.0
0-90	0.0	0.0
90-180	2728	100.0
0-180	2728	100.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	0.0	0.0
10-20	0.0	0.0
20-30	0.0	0.0
30-40	0.0	0.0
40-50	0.0	0.0
50-60	0.0	0.0
60-70	0.0	0.0
70-80	0.0	0.0
80-90	0.0	0.0
90-100	193.0	7.1
100-110	535.7	19.6
110-120	582.1	21.3
120-130	497.2	18.2
130-140	370.3	13.6
140-150	256.2	9.4
150-160	167.3	6.1
160-170	95.3	3.5
170-180	31.0	1.1

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

Report Reviewed By:

Vladimir Kozak
Engineering Supervisor
Lighting Division

Attachment: None