

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104541188

Date: December 18, 2020

REPORT NO. 104541188LAX-002

TEST OF ONE INDIRECT LED LUMINAIRE

MODEL NO. BPRO4-LED35-SO-NW-SCW
LED MODEL NO. LUMILEDS 2835
DRIVER MODEL NO. OSRAM OTI 50W G2

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-01120100-3.

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 BPRO4-LED35-SO-NW-SCW. The sample was received by Intertek on December 18, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2012181108-001 .

DATES OF TESTS: December 18, 2020

SUMMARY

Model No.:	BPRO4-LED35-SO-NW-SCW
Description:	Indirect LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4639
Total Power (W)	32.52
Luminaire Efficacy (LPW)	142.7
Power Factor	0.990

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	12/18/20
AC Source	CW1251P	000944	VBU	VBU	12/18/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	12/18/20
Tape Measure	33-428	001491	VBU	VBU	12/18/20
Magnetic Level	581-9	001610	10/21/20	10/21/21	12/18/20
Temp. & RH Meter	971	002137	10/13/20	10/13/21	12/18/20
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	12/18/20

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.

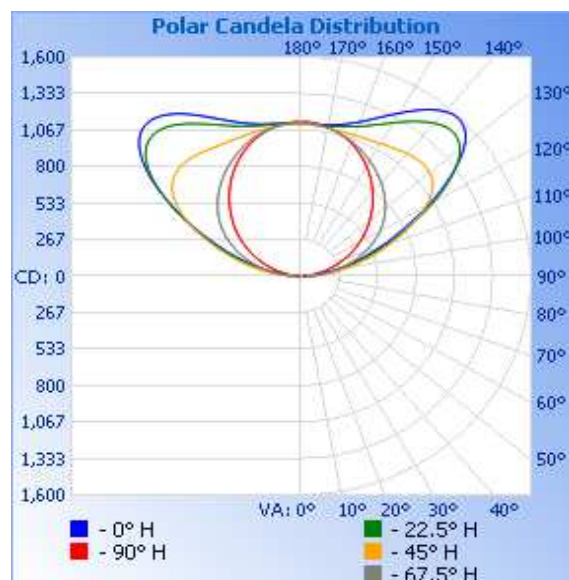
RESULTS OF TEST

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)
LAN2012181108-001	Down	120.0	273.7	32.52	0.990	4639	142.7

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	102	123	161	136	48
100	216	252	306	241	116
105	367	409	463	344	198
110	543	590	637	443	282
115	755	804	824	539	369
120	1004	1050	996	627	455
125	1270	1283	1117	701	539
130	1485	1443	1171	766	621
135	1584	1492	1179	823	700
140	1569	1457	1163	874	777
145	1484	1381	1138	921	851
150	1377	1295	1116	965	918
155	1279	1220	1102	1005	978
160	1201	1165	1095	1043	1031
165	1149	1130	1094	1074	1073
170	1122	1114	1099	1098	1104
175	1114	1111	1106	1114	1123
180	1117	1117	1117	1117	1117

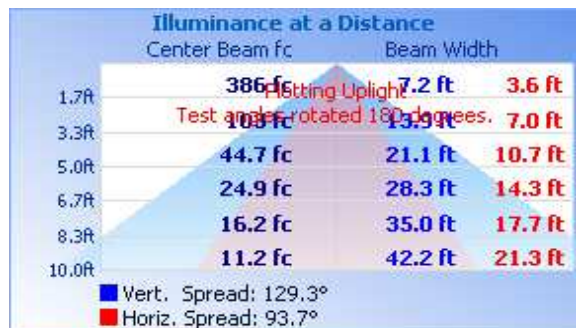


RESULTS OF TEST (cont'd)

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	4639	100.0
0-180	4639	100.0

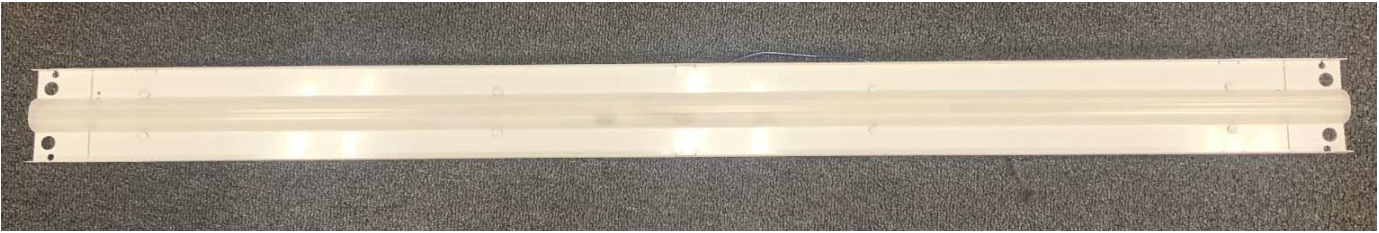
Zonal Lumens and Percentages at 25°C

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	134.1	2.9
100-110	398.6	8.6
110-120	678.2	14.6
120-130	885.5	19.1
130-140	885.1	19.1
140-150	720.5	15.5
150-160	516.6	11.1
160-170	313.9	6.8
170-180	106.4	2.3

Spacing Criterion at 25°C

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

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'. The signature is fluid and cursive.

Kellen Murakami
Technician
Lighting Division

Attachment: None

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Vladimir Kozak'. The signature is bold and cursive.

Vladimir Kozak
Engineering Supervisor
Lighting Division