

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104541188

Date: December 18, 2020

REPORT NO. 104541188LAX-003

TEST OF ONE INDIRECT LED LUMINAIRE

MODEL NO. BPRO4-LED35-SO-NW-SACW

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-SACW. 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-SACW
Description:	Indirect LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	4073
Total Power (W)	32.50
Luminaire Efficacy (LPW)	125.3
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.

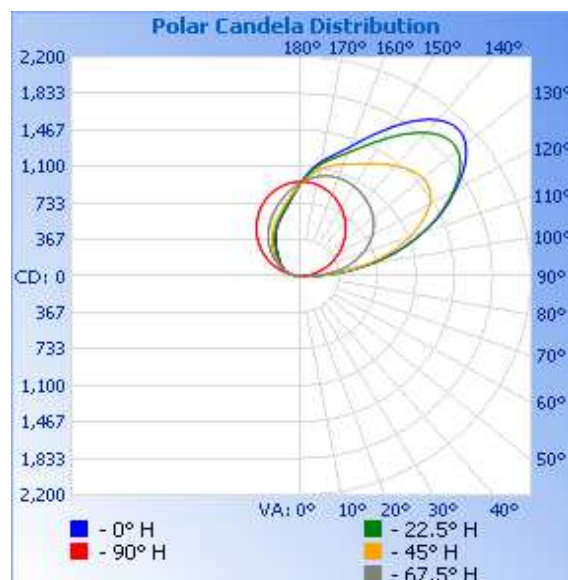
RESULTS OF TEST

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	273.6	32.50	0.990	4073	125.3

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	341	366	345	222	46
100	636	656	603	382	105
105	939	946	853	503	174
110	1213	1212	1079	602	246
115	1475	1458	1268	697	320
120	1696	1673	1415	780	392
125	1906	1856	1504	848	463
130	2057	1960	1527	903	533
135	2106	1962	1499	946	599
140	2047	1880	1442	981	663
145	1906	1745	1373	1011	724
150	1726	1589	1305	1032	780
155	1544	1443	1245	1046	828
160	1387	1322	1195	1051	871
165	1268	1230	1149	1042	904
170	1174	1148	1093	1019	929
175	1069	1048	1018	985	945
180	936	936	936	936	936

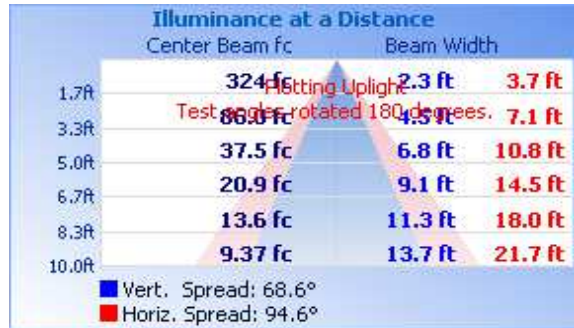


RESULTS OF TEST (cont'd)

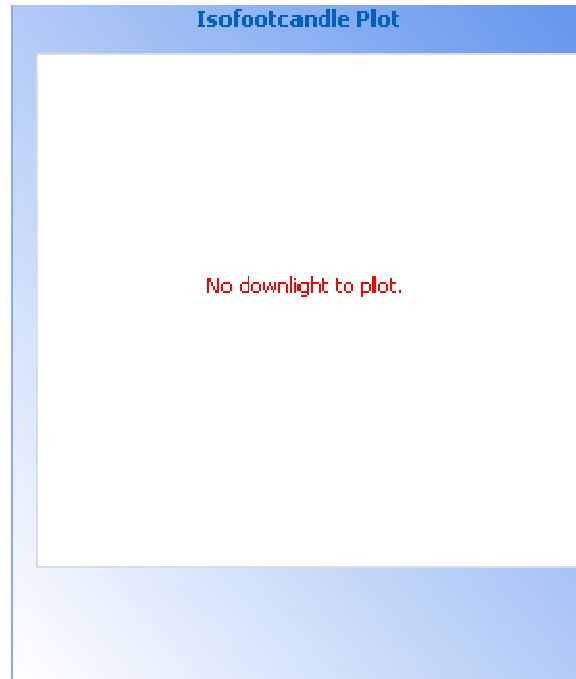
Illumination Plots

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	4073	100.0
0-180	4073	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	177.2	4.4
100-110	445.3	10.9
110-120	638.2	15.7
120-130	734.6	18.0
130-140	709.5	17.4
140-150	587.2	14.4
150-160	428.8	10.5
160-170	263.0	6.5
170-180	89.4	2.2

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