

REPORT

25800 COMMERCE DRIVE, LAKE FOREST, CA 92630

Project No. G104516183

Date: November 23, 2020

REPORT NO. 104516183LAX-003E

TEST OF ONE DIRECT LED LUMINAIRE

MODEL NO. BPRO2-LIN-LVR-LED35-SO-WWG

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-01120100-0.

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 BPRO2-LIN-LVR-LED35-SO-WWG. The sample was received by Intertek on November 20, 2020, in undamaged condition and one sample was tested as received. The sample designation was LAN2011200828-001 .

DATES OF TESTS: November 23, 2020

SUMMARY

Model No.:	BPRO2-LIN-LVR-LED35-SO-WWG
Description:	Direct LED Luminaire

Criteria	Result
Total Lumen Output (Lumens)	1136
Total Power (W)	32.66
Luminaire Efficacy (LPW)	34.78
Power Factor	0.991

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	VBU	VBU	11/23/20
AC Source	CW1251P	000944	VBU	VBU	11/23/20
Power Analyzer	WT210	000945	09/29/20	09/29/21	11/23/20
Tape Measure	33-428	001491	VBU	VBU	11/23/20
Magnetic Level	581-9	001610	10/21/20	10/21/21	11/23/20
Thermometer	DPI8-C24	001782	10/09/20	10/09/21	11/23/20
Temp. & RH Meter	971	002137	10/13/20	10/13/21	11/23/20

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.

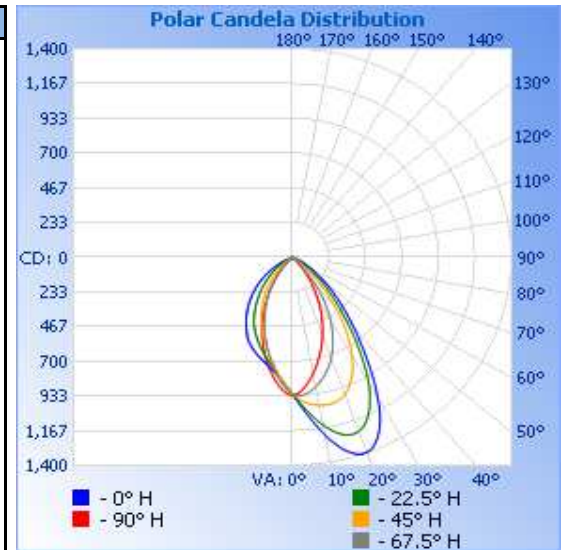
RESULTS OF TEST

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)
LAN2011200828-001	Up	120.0	274.7	32.66	0.990	1136	34.78

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	0	0	0	0	0
	80	0	1	1	1	1
	75	1	1	2	2	2
	70	2	4	4	4	4
	65	42	19	8	7	6
	60	105	59	13	10	9
	55	188	124	28	16	13
	50	298	218	106	22	18
	45	433	345	242	74	31
	40	606	512	412	204	106
	35	826	731	596	346	213
	30	1090	975	762	486	327
	25	1306	1154	896	612	445
	20	1395	1244	980	723	562
	15	1349	1232	1015	812	677
	10	1217	1148	1010	880	785
	5	1056	1031	980	926	879
	0	919	919	919	919	919
R O O M S I D E	5	826	821	821	841	879
	10	764	745	720	731	785
	15	722	681	631	623	677
	20	684	620	547	519	562
	25	642	559	466	416	445
	30	583	491	387	318	327
	35	516	411	306	223	213
	40	443	330	219	131	106
	45	367	252	136	48	31
	50	289	178	61	18	18
	55	209	111	18	12	13
	60	129	55	10	8	9
	65	52	16	6	6	6
	70	2	3	3	3	4
	75	1	1	2	2	2
	80	0	0	1	1	1
	85	0	0	0	0	0
	90	0	0	0	0	0
	Angle	180	202.5	225	247.5	270

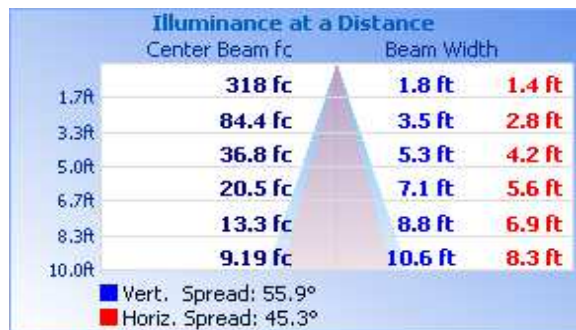


RESULTS OF TEST (cont'd)

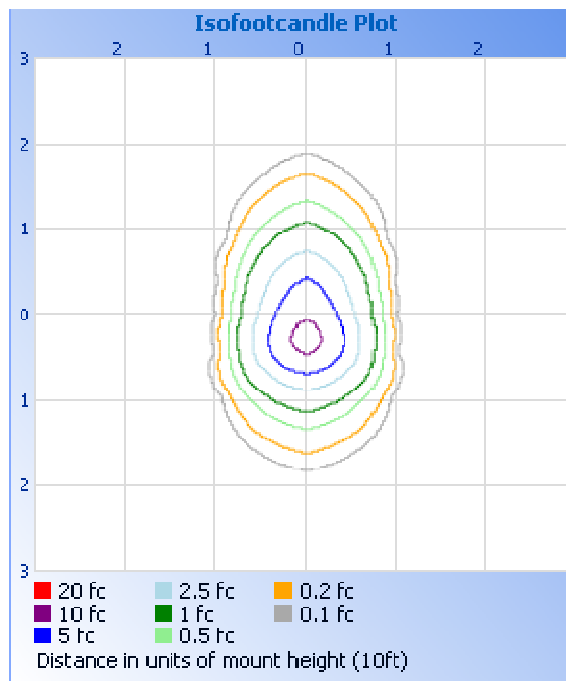
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	635.0	55.9
0-40	906.5	79.8
0-60	1118	98.4
60-90	17.8	1.6
0-90	1136	100.0
90-180	0.0	0.0
0-180	1136	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	85.4	7.5
10-20	235.2	20.7
20-30	314.3	27.7
30-40	271.5	23.9
40-50	150.8	13.3
50-60	60.7	5.3
60-70	15.5	1.4
70-80	1.9	0.2
80-90	0.3	0.0

Spacing Criterion at 25°C

Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	1.02

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