

VISUAL COMFORT & CO. TEST REPORT

SCOPE OF WORK

Electrical and Photometric tests as required to the IESNA test standard.

MODEL NUMBER

E4PSLRD-8308-W

REPORT NUMBER

104349704CHI-113D

ISSUE DATE

August 14, 2020

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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REPORT NO.: 104206403CHI-113

REPORT DATE: August 14, 2020

TEST REPORT

TEST OF ONE E4PSL 85DEG 900MA

MODEL NO. E4PSLRD-8308-W
LED MODEL NO. BRIDGELUX BXRE-**E2000-C-83
DRIVER MODEL NO. ERP 255ESP040W900

RENDERED TO:

VISUAL COMFORT & CO.
7400 LINDER AVE.
SKOKIE IL 60077

STATEMENT OF LIMITATIONS

NVLAP Lab Code 600186-0. 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.

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01080748-1.

STANDARDS USED

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE

The client submitted one production sample of model number E4PSLRD-8308-W. The sample was received by Intertek on July 13, 2020 in undamaged condition and one sample was tested as received. The sample designation was AH07132020091733.

DATE OF TESTS

August 6, 2020.

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SUMMARY

MODEL NO:	E4PSLRD-8308-W
DESCRIPTION:	E4PSL 85deg 900mA

CRITERIA	RESULTS
Lumen Output (lumens)	3138.8
Input Power (W) @ 120 (VAC)	35.30
Lumen Efficacy (lm/W)	88.9
Input Power Factor () @ 120 (VAC)	0.985

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	LAST CAL DATE	CAL DUE DATE
Yokogawa Power Meter	WT210	146919	7/1/2020	7/1/2021
Omega Thermometer	DPI8-C24	146920	10/3/2019	10/3/2020
LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV
Newport Thermohygrometer	iServer	146957	12/2/2019	12/2/2020
Pacific, AC Power Supply	118-ACX	CHI0153	VBV	VBV

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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 Type C Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

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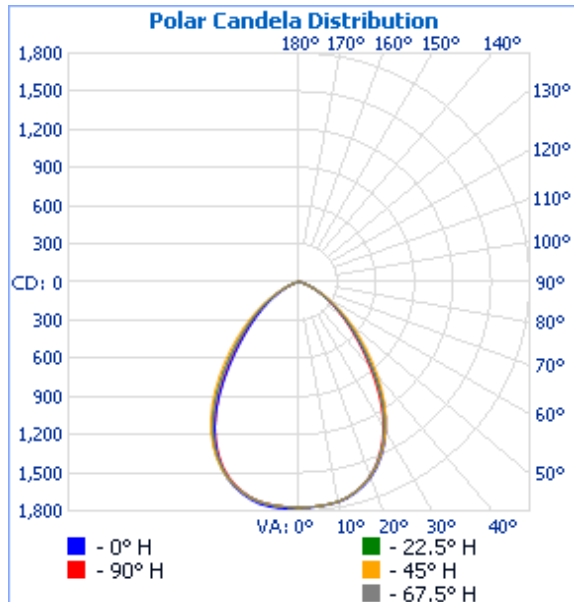
RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR ()	LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)
AH07132020091733	Base Up	120.1	298.6	35.30	0.985	3138.8	88.9

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	1774	1774	1774	1774	1774
5	1770	1768	1769	1768	1768
10	1757	1753	1754	1753	1754
15	1713	1706	1706	1705	1705
20	1636	1625	1627	1622	1622
25	1513	1501	1507	1495	1492
30	1352	1337	1351	1327	1316
35	1144	1129	1159	1118	1095
40	892	896	947	888	855
45	670	683	738	680	644
50	501	508	556	508	478
55	361	365	397	365	344
60	243	243	268	245	232
65	152	148	162	151	144
70	90	85	87	87	85
75	49	45	46	46	44
80	26	23	23	23	23
85	12	10	10	10	10
90	0	0	0	0	0



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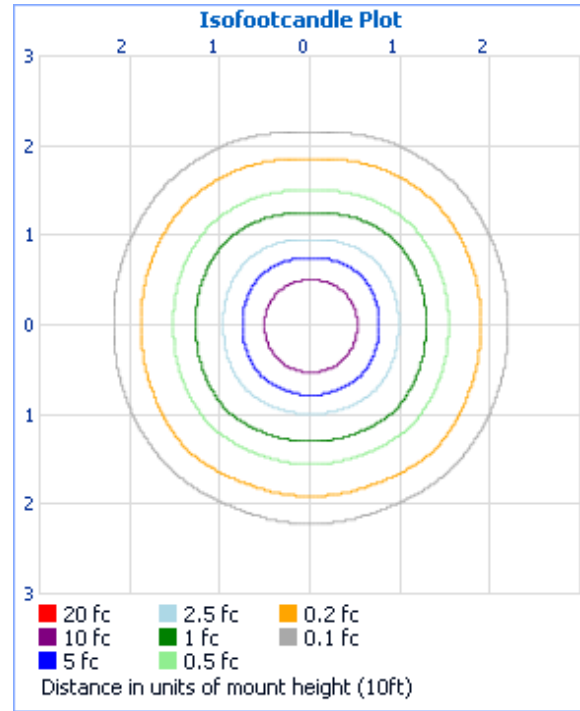
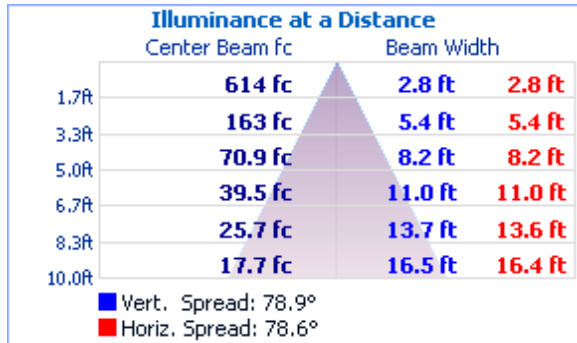
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RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

MOUNTING HEIGHT: 10ft	
ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT



ZONAL LUMEN SUMMARY AND PERCENTAGES

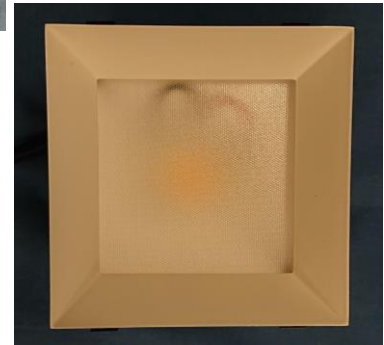
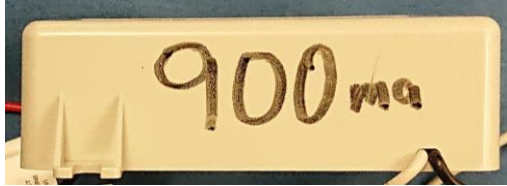
ZONE	LUMENS	% LUMINAIRE
0-30	1338.5	42.6
0-40	2043.0	65.1
0-60	2915.7	92.9
60-90	223.0	7.1
70-100	65.5	2.1
90-120	0.0	0.0
0-90	3138.8	100.0
90-180	0.0	0.0
0-180	3138.8	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	168.5	5.4
10-20	480.7	15.3
20-30	689.4	22.0
30-40	704.5	22.4
40-50	537.7	17.1
50-60	335.0	10.7
60-70	157.5	5.0
70-80	53.0	1.7
80-90	12.6	0.4

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PICTURES



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:

Ian Smith

Ian Smith
Engineer
Lighting Division

Report Reviewed By:

Jeffrey Davis

Jeff Davis
N.A. Technical Lead
Lighting Division

Attachments: IES File

REVISION HISTORY

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY	REVISION NOTE
None				