

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

104206403CHI-110D

ISSUE DATE

August 14, 2020

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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REPORT DATE: August 14, 2020

TEST REPORT

TEST OF ONE E4PSL 85DEG 400MA

MODEL NO. E4PSLRD-8308-W
LED MODEL NO. BRIDGELUX BXRE-**E2000-C-83
DRIVER MODEL NO. ERP 255ESS020W400

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 400mA

CRITERIA	RESULTS
Lumen Output (lumens)	1539.9
Input Power (W) @ 120 (VAC)	15.40
Lumen Efficacy (lm/W)	100.0
Input Power Factor () @ 120 (VAC)	0.988

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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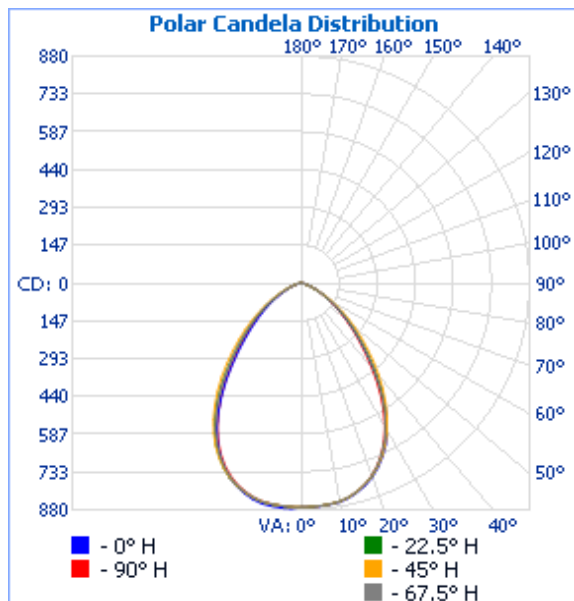
RESULTS OF TESTS

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	129.8	15.40	0.988	1539.9	100.0

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	870	870	870	870	870
5	868	867	867	867	867
10	862	860	860	860	860
15	840	836	836	836	836
20	801	797	797	795	795
25	742	736	739	733	732
30	662	655	662	650	645
35	558	552	567	548	537
40	437	439	464	436	419
45	331	334	362	333	316
50	246	250	273	250	236
55	178	179	196	180	169
60	121	119	131	120	114
65	76	73	79	74	71
70	46	42	43	43	42
75	25	22	23	23	22
80	13	12	11	11	11
85	6	5	5	5	5
90	0	0	0	0	0



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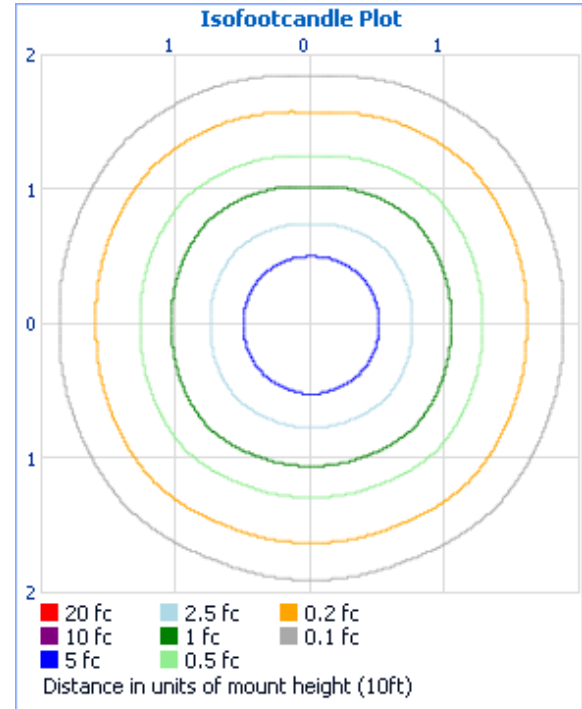
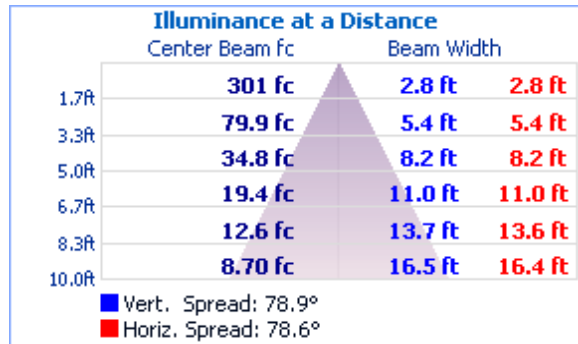
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RESULTS OF TESTS

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

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



ZONAL LUMEN SUMMARY AND PERCENTAGES

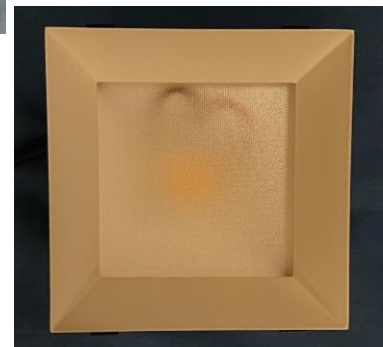
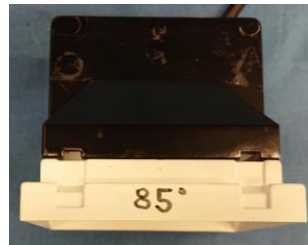
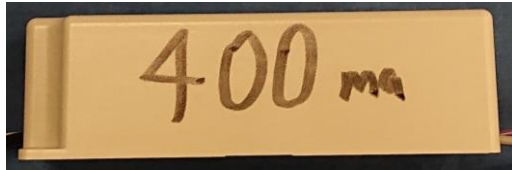
ZONE	LUMENS	% LUMINAIRE
0-30	656.3	42.6
0-40	1001.4	65.0
0-60	1429.9	92.9
60-90	109.9	7.1
70-100	32.3	2.1
90-120	0.0	0.0
0-90	1539.9	100.0
90-180	0.0	0.0
0-180	1539.9	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	82.6	5.4
10-20	235.7	15.3
20-30	338.0	21.9
30-40	345.1	22.4
40-50	263.8	17.1
50-60	164.8	10.7
60-70	77.6	5.0
70-80	26.1	1.7
80-90	6.2	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				