

# VISUAL COMFORT & CO. TEST REPORT

## SCOPE OF WORK

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

## MODEL NUMBER

E4PSLRD-8309-W

## REPORT NUMBER

104349704CHI-115D

## ISSUE DATE

August 14, 2020

## REVISION DATE

None

## DOCUMENT CONTROL NUMBER

TBD

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**REPORT NO.: 104206403CHI-115D**

**REPORT DATE: August 14, 2020**

**TEST REPORT**

TEST OF ONE E4PSL 95DEG 400MA

MODEL NO. E4PSLRD-8309-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-8309-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**

<b>MODEL NO:</b>	E4PSLRD-8309-W
<b>DESCRIPTION:</b>	E4PSL 95deg 400mA

CRITERIA	RESULTS
Lumen Output (lumens)	1471.6
Input Power (W) @ 120 (VAC)	15.43
Lumen Efficacy (lm/W)	95.4
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 REPORT**

**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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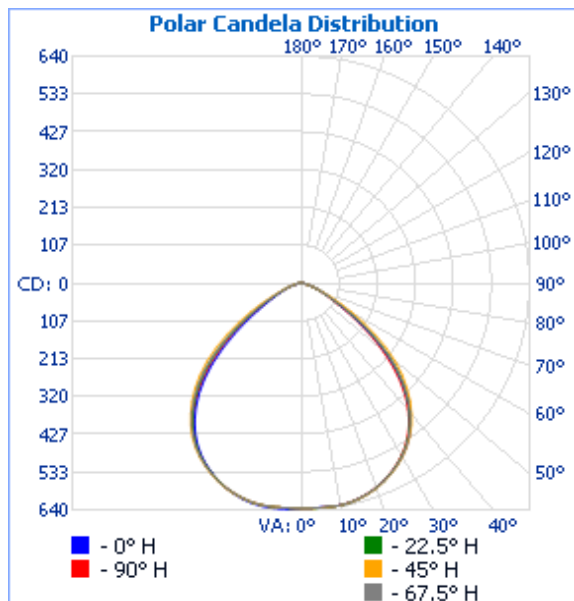
RESULTS OF TESTS

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	130.1	15.43	0.988	1471.6	95.4

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	635	635	635	635	635
5	635	636	636	636	636
10	636	637	637	636	636
15	629	629	630	629	628
20	615	615	616	615	614
25	593	593	595	593	592
30	566	564	567	565	562
35	528	525	530	526	522
40	474	473	481	474	467
45	404	406	419	407	394
50	318	322	344	323	303
55	216	225	252	225	204
60	131	138	163	137	122
65	79	79	91	78	73
70	49	46	47	46	45
75	26	25	25	25	23
80	14	13	13	13	13
85	7	6	6	6	6
90	0	0	0	0	0



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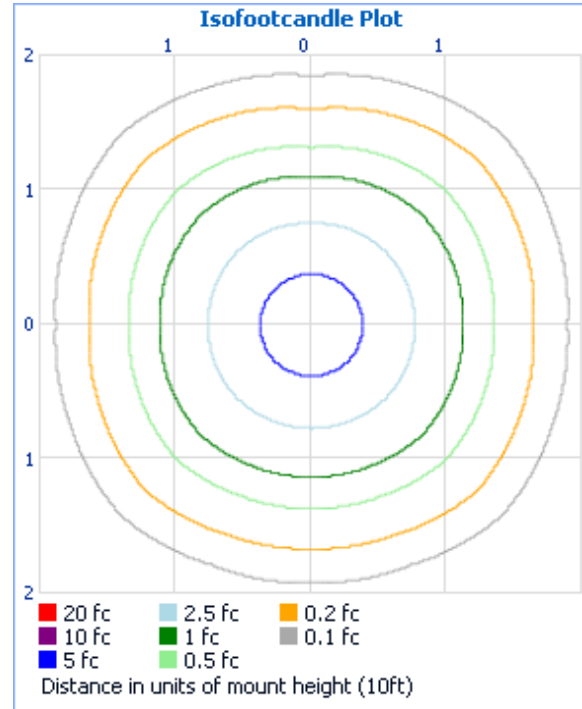
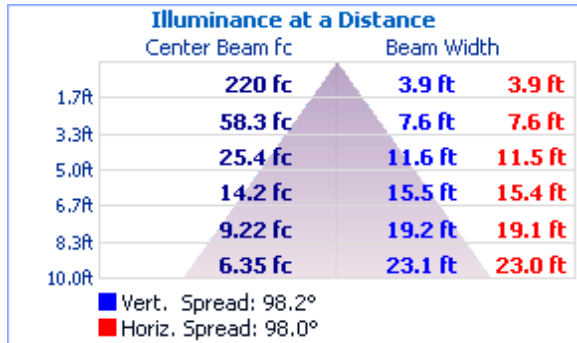
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TEST REPORT

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

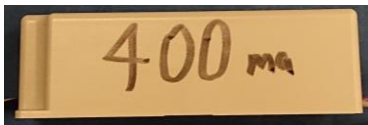
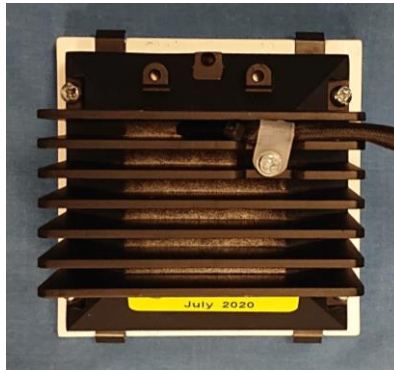
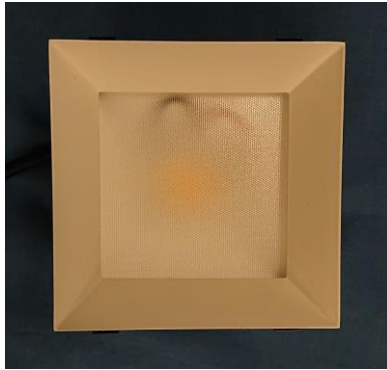
ZONE	LUMENS	% LUMINAIRE
0-30	511.6	34.8
0-40	839.1	57.0
0-60	1352.9	91.9
60-90	118.7	8.1
70-100	34.9	2.4
90-120	0.0	0.0
0-90	1471.6	100.0
90-180	0.0	0.0
0-180	1471.6	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	60.7	4.1
10-20	177.6	12.1
20-30	273.2	18.6
30-40	327.5	22.3
40-50	310.7	21.1
50-60	203.1	13.8
60-70	83.8	5.7
70-80	28.0	1.9
80-90	6.8	0.5

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**TEST REPORT**

**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				