

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-112D

ISSUE DATE

August 14, 2020

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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REPORT NO.: 104206403CHI-112D

REPORT DATE: August 14, 2020

TEST REPORT

TEST OF ONE E4PSL 85DEG 700MA

MODEL NO. E4PSLRD-8308-W
LED MODEL NO. BRIDGELUX BXRE-**E2000-C-83
DRIVER MODEL NO. ERP 255ESS030W700

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.

REPORT NO.: 104206403CHI-112D

REPORT DATE: August 14, 2020

TEST REPORT

SUMMARY

MODEL NO:	E4PSLRD-8308-W
DESCRIPTION:	E4PSL 85deg 700mA

CRITERIA	RESULTS
Lumen Output (lumens)	2525.3
Input Power (W) @ 120 (VAC)	27.27
Lumen Efficacy (lm/W)	92.6
Input Power Factor () @ 120 (VAC)	0.983

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

REPORT NO.: 104206403CHI-112D

REPORT DATE: August 14, 2020

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.

REPORT NO.: 104206403CHI-112D

REPORT DATE: August 14, 2020

TEST REPORT

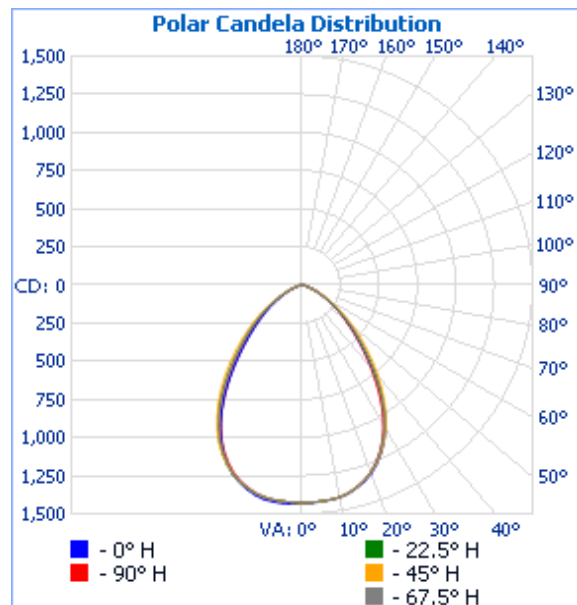
RESULTS OF TESTS

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	120.0	231.0	27.27	0.983	2525.3	92.6

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	1426	1426	1426	1426	1426
5	1424	1422	1423	1422	1422
10	1414	1410	1412	1410	1410
15	1376	1372	1372	1371	1371
20	1315	1308	1308	1305	1304
25	1215	1208	1212	1204	1200
30	1084	1075	1086	1068	1058
35	915	909	930	901	880
40	713	723	761	715	688
45	535	549	593	546	518
50	402	410	446	409	384
55	290	295	320	294	276
60	194	195	215	196	186
65	121	119	130	121	117
70	72	68	70	70	68
75	38	36	37	37	36
80	21	19	18	19	19
85	10	8	8	8	8
90	0	0	0	0	0



REPORT NO.: 104206403CHI-112D

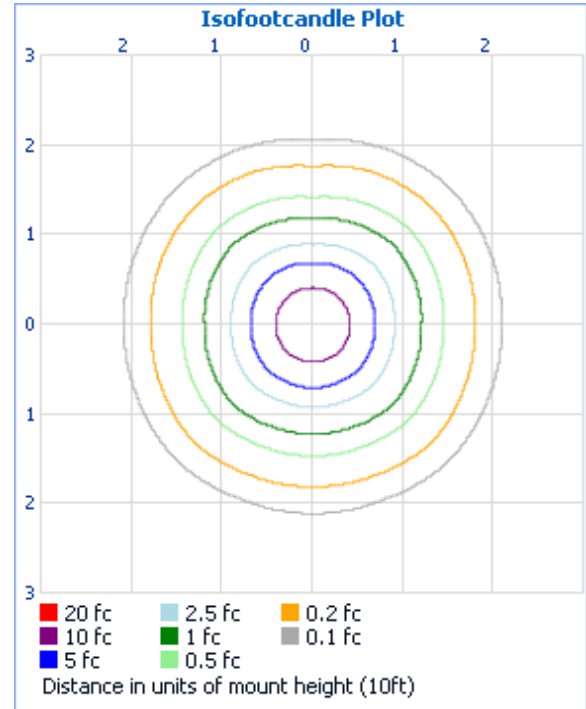
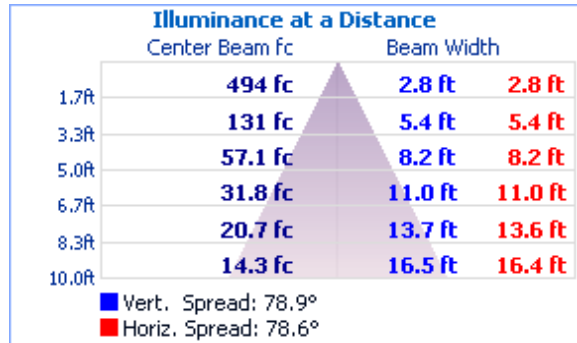
REPORT DATE: August 14, 2020

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

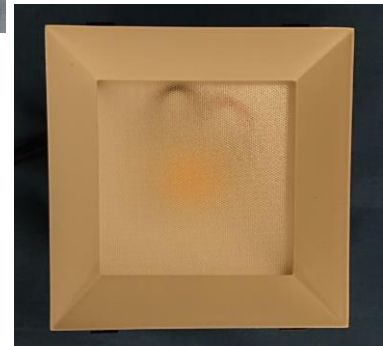
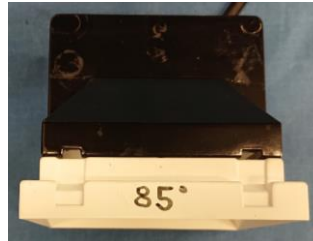
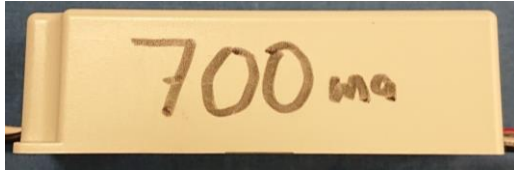
ZONE	LUMENS	% LUMINAIRE
0-30	1076.9	42.6
0-40	1643.7	65.1
0-60	2345.9	92.9
60-90	179.4	7.1
70-100	52.7	2.1
90-120	0.0	0.0
0-90	2525.3	100.0
90-180	0.0	0.0
0-180	2525.3	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	135.5	5.4
10-20	386.7	15.3
20-30	554.7	22.0
30-40	566.8	22.4
40-50	432.6	17.1
50-60	269.7	10.7
60-70	126.7	5.0
70-80	42.6	1.7
80-90	10.1	0.4

REPORT NO.: 104206403CHI-112D
REPORT DATE: August 14, 2020

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				