

SONNEMAN - A WAY OF LIGHT

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

7100

PROJECT NUMBER

G103703321

REPORT NUMBER

103703321CRT-013

ISSUE DATE

November 2, 2018

REVISION DATE

None

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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TEST REPORT**REPORT NO.: 103703321CRT-013****REPORT DATE: November 7, 2018**

TEST OF (1) PRISMA LED SCONCE

MODEL NO. 7100

RENDERED TO:

SONNEMAN - A WAY OF LIGHT
151 AIRPORT DRIVE
WAPPINGERS FALLS, NY 12590**STATEMENT OF LIMITATION**

NVLAP Lab Code 100402-0. 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-00924150.

STANDARDS USED

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

SAMPLE INFORMATION

CONTROL NO.	MODEL/SERIAL NO.	DESCRIPTION	TYPE	RECEIVED
CRT1811020954-001-1	7100	Prisma LED Sconce	Production	11/2/2018

DATE OF TESTS

November 5, 2018.

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TEST REPORT

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REPORT DATE: November 7, 2018

SUMMARY

MODEL NO:	7100
DESCRIPTION:	Prisma LED Sconce
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	ERP EBR020U-0500-42

CRITERIA	RESULTS
Lumen Output (lumens)	907.1
Input Power (W) @ 120 (VAC)	20.62
Lumen Efficacy (lm/W)	44.0
Input Power Factor () @ 120 (VAC)	0.991

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	CAL DUE DATE	DATE USED
LSI High Speed Mirror Goniometer	6440	---	11/5/2018	11/5/2018
Elgar AC Power Supply	CW1251	---	VBU	11/5/2018
Sorenson DC Power Supply	XG 150-10	---	VBU	11/5/2018
Yokogawa Power Analyzer	WT210	E464	5/3/2019	11/5/2018
Omega Thermometer	DPi8-C24	M263	5/3/2019	11/5/2018
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	11/5/2018
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	11/5/2018
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	11/5/2018
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	11/5/2018
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	11/5/2018

TEST REPORT**REPORT NO.: 103703321CRT-013****REPORT DATE: November 7, 2018****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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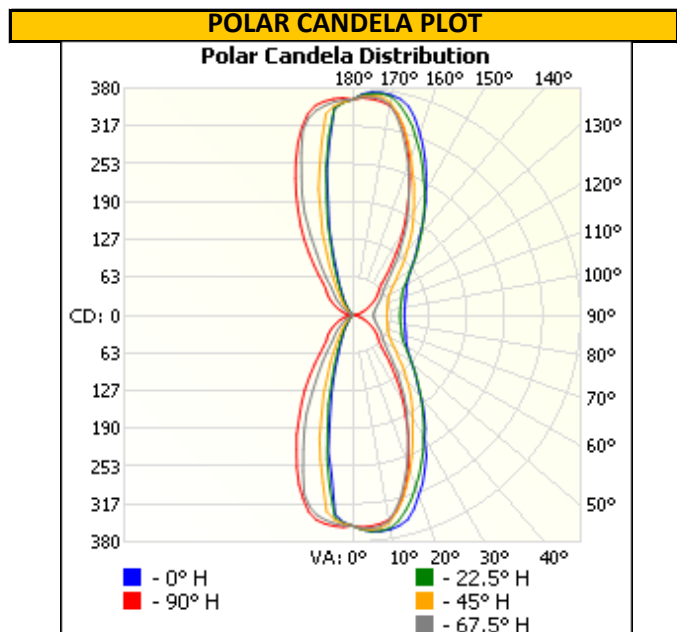
RESULTS OF TESTS

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)
CRT1811020954-001-1	Horizontal	120.06	173.3	20.62	0.991	907.1	44.0

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	353	353	353	353	353
5	364	363	361	358	355
10	364	362	354	350	348
15	355	340	321	314	318
20	322	306	279	266	272
25	285	272	237	218	220
30	240	236	201	178	170
35	209	205	170	139	124
40	176	176	140	106	86
45	151	152	116	82	62
50	130	131	95	67	54
55	115	113	80	60	45
60	104	101	71	54	36
65	98	91	65	47	27
70	94	87	62	43	20
75	91	84	60	39	14
80	88	81	59	37	8
85	87	80	57	35	3
90	86	79	57	35	0
95	87	80	58	35	3
100	89	81	59	37	8
105	91	84	60	39	14
110	94	87	62	43	20
115	99	92	66	47	28
120	104	100	71	54	36
125	115	113	80	60	45
130	130	131	95	68	55
135	151	152	117	83	64
140	174	177	141	107	88
145	209	207	172	140	126
150	244	241	204	181	172
155	286	275	242	221	222
160	326	312	283	270	276
165	362	347	328	318	326
170	374	372	362	358	357
175	375	373	369	367	364
180	361	361	361	361	361



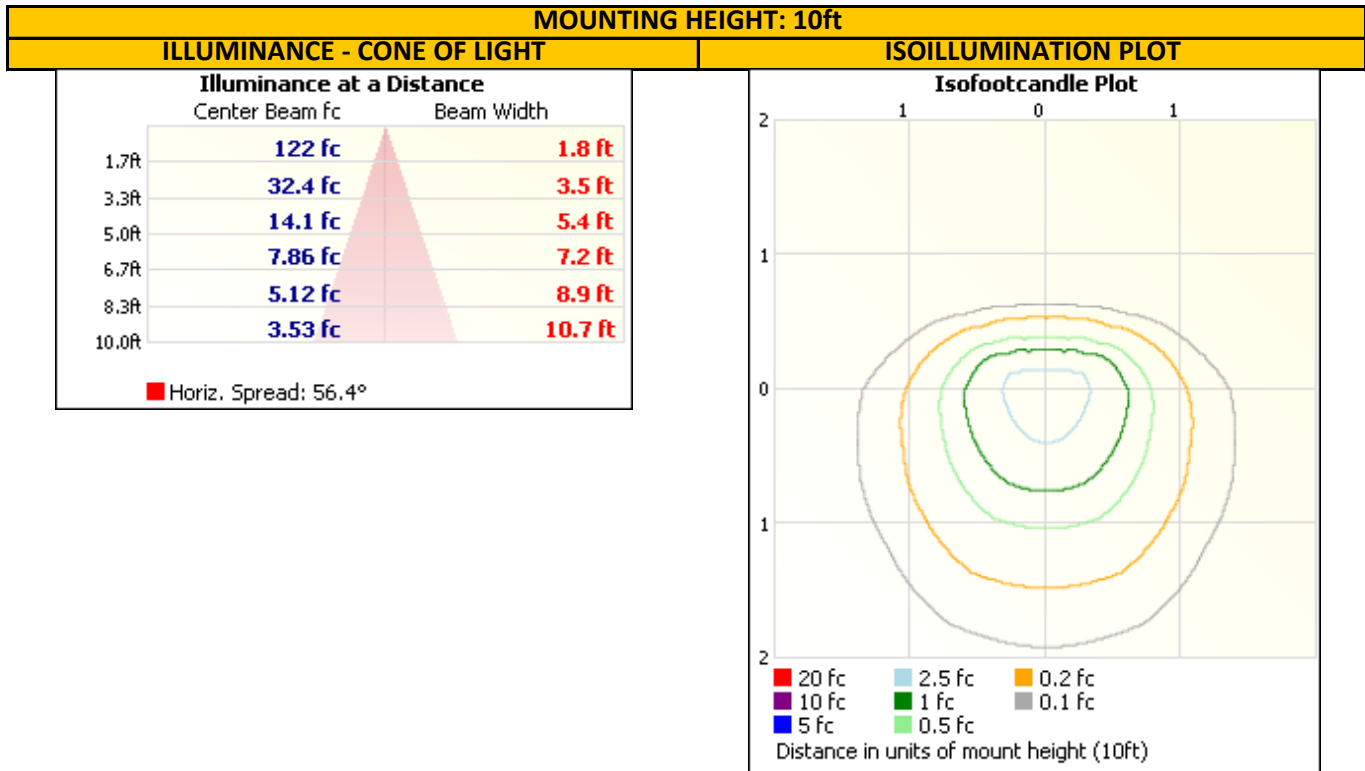
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RESULTS OF TESTS

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



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	190.3	21.0
0-40	258.3	28.5
0-60	352.0	38.8
60-90	98.1	10.8
0-90	450.2	49.6
90-180	456.9	50.4
0-180	907.1	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	32.6	3.6
10-20	76.2	8.4
20-30	81.5	9.0
30-40	68.0	7.5
40-50	51.9	5.7
50-60	41.9	4.6
60-70	35.4	3.9
70-80	32.4	3.6
80-90	30.3	3.3
90-100	30.3	3.3
100-110	32.5	3.6
110-120	35.6	3.9
120-130	42.1	4.6
130-140	52.5	5.8
140-150	69.1	7.6
150-160	83.2	9.2
160-170	78.1	8.6
170-180	33.5	3.7

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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:

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Report Reviewed By:

Ryan Siddon
Project Engineer
Lighting Division

Attachments: IES File

REVISION HISTORY

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