

SONNEMAN - A WAY OF LIGHT

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

7236

PROJECT NUMBER

G103703321

REPORT NUMBER

103703321CRT-084

ISSUE DATE

May 14, 2019

REVISION DATE

None

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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TEST REPORT

REPORT NO.: 103703321CRT-084

REPORT DATE: May 14, 2019

TEST OF (1) TIDES LOW LED SCONCE

MODEL NO. 7236

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-00932265.

STANDARDS USED

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

SAMPLE INFORMATION

CONTROL NO.	MODEL/SERIAL NO.	DESCRIPTION	TYPE	RECEIVED
CRT1905021126-001	7236	Tides Low LED Sconce	Production	5/2/2019

DATE OF TESTS

May 8, 2019.

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SUMMARY

MODEL NO:	7236
DESCRIPTION:	Tides Low LED Sconce
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	ERP EBR020U-0500-42

CRITERIA	RESULTS
Lumen Output (lumens)	1116.3
Input Power (W) @ 120 (VAC)	20.72
Lumen Efficacy (lm/W)	53.9
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	---	6/6/2019	5/8/2019
Elgar AC Power Supply	CW1251	---	VBU	5/8/2019
Sorenson DC Power Supply	XG 150-10	---	VBU	5/8/2019
Yokogawa Power Analyzer	WT210	E464	5/7/2020	5/8/2019
Omega Thermometer	DPI8-C24	M263	5/7/2020	5/8/2019
M-D Building Products Digital Level	Smart Tool	E499	6/29/2019	5/8/2019
NIST Luminous Intensity Standard Source	NBS10322	N1427	2/11/2021	5/8/2019
NIST Luminous Intensity Standard Source	NBS10332	N1435	2/11/2021	5/8/2019
NIST Luminous Intensity Standard Source	NBS10265	N1437	2/11/2021	5/8/2019
NIST Luminous Flux Standard Source	NBS10428	N1424	1/3/2021	5/8/2019

TEST REPORT**REPORT NO.: 103703321CRT-084****REPORT DATE: May 14, 2019****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 (candela) 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.

The calibration of the goniometer-photometer system is traceable to the National Institute of Standards and Technology.

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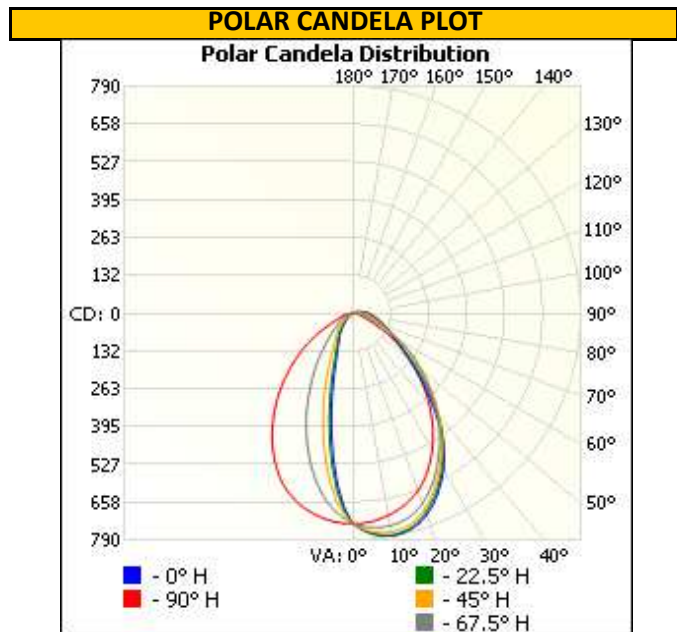
RESULTS OF TESTS

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)
CRT1905021126-001	Base Up	120.03	174.3	20.72	0.991	1116.3	53.9

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	732	732	732	732	732
5	771	770	764	750	730
10	788	785	775	752	715
15	780	775	764	740	693
20	748	739	727	706	660
25	696	686	674	655	612
30	629	620	608	592	551
35	546	548	537	526	484
40	444	462	464	455	412
45	344	369	389	381	341
50	265	282	317	311	268
55	202	213	250	246	200
60	162	164	185	181	132
65	135	133	132	122	73
70	113	109	99	78	46
75	94	90	78	54	30
80	78	74	61	40	16
85	64	60	47	28	5
90	52	47	35	18	0
95	41	37	25	9	0
100	31	27	16	2	0
105	22	19	9	0	0
110	15	12	3	0	0
115	8	5	0	0	0
120	2	0	0	0	0



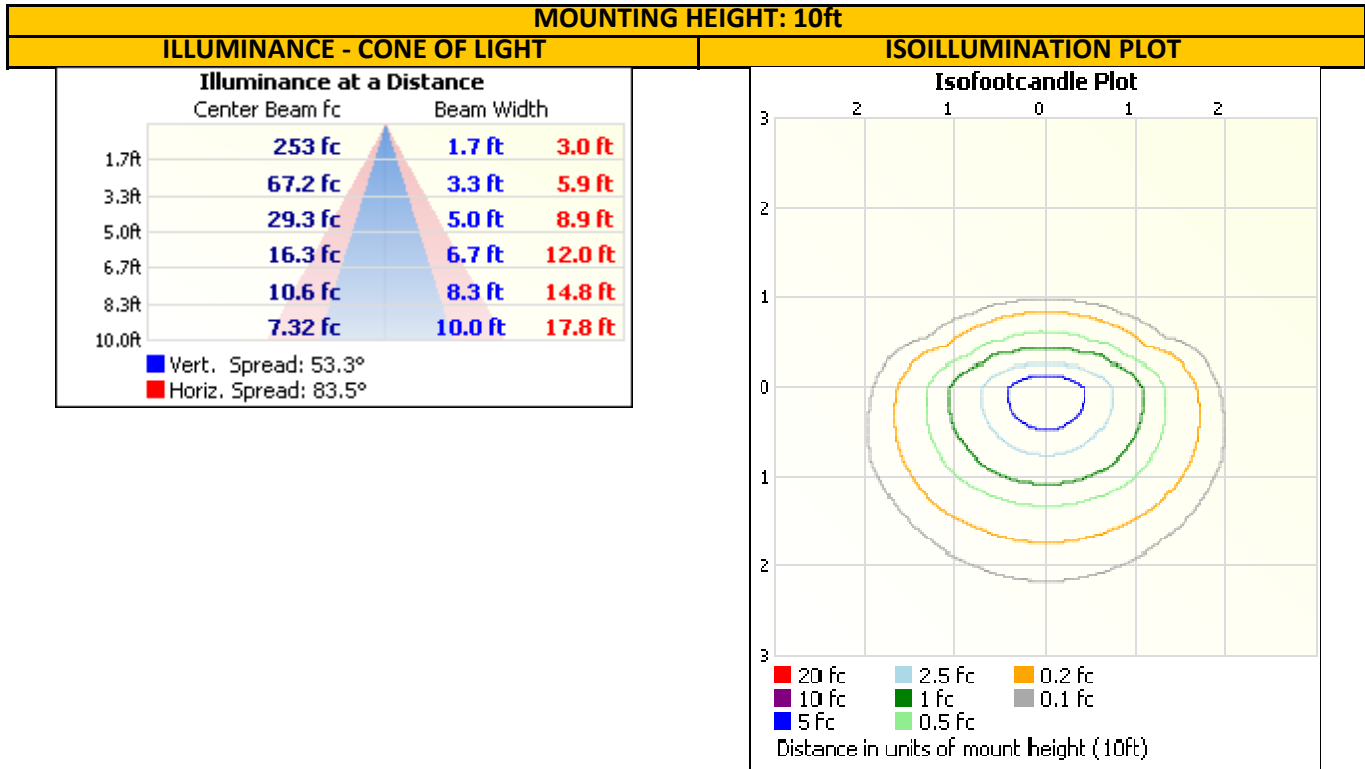
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RESULTS OF TESTS

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



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	445.2	39.9
0-40	662.5	59.4
0-60	963.7	86.3
60-90	133.4	12.0
0-90	1097.2	98.3
90-180	19.1	1.7
0-180	1116.3	100.0

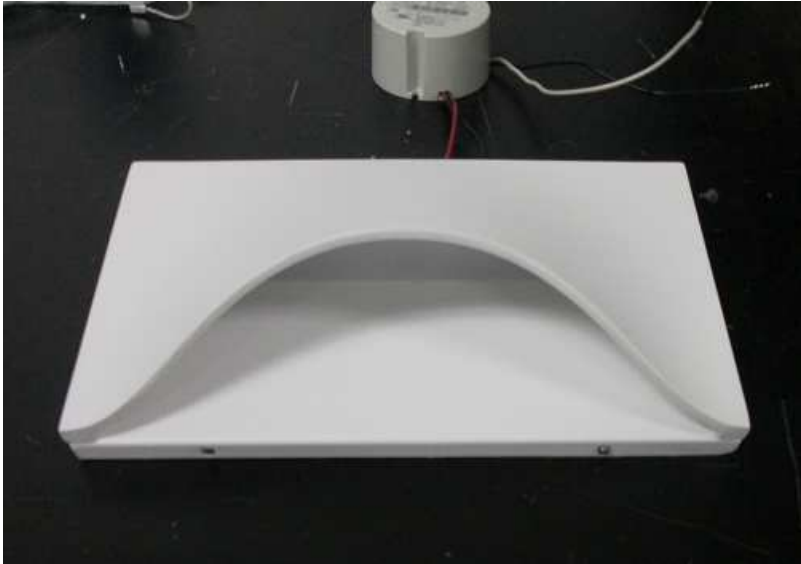
ZONE	LUMENS	% LUMINAIRE
0-10	65.8	5.9
10-20	165.8	14.9
20-30	213.6	19.1
30-40	217.3	19.5
40-50	179.3	16.1
50-60	121.9	10.9
60-70	69.6	6.2
70-80	40.1	3.6
80-90	23.7	2.1
90-100	12.6	1.1
100-110	5.3	0.5
110-120	1.3	0.1

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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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Lighting Division

Report Reviewed By:

Melanie Brittain
Associate Engineer
Lighting Division

Attachments: .IES File

REVISION HISTORY

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