

SONNEMAN - A WAY OF LIGHT

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

7360

PROJECT NUMBER

G103703321

REPORT NUMBER

103703321CRT-006

ISSUE DATE

October 29, 2018

REVISION DATE

None

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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TEST REPORT**REPORT NO.: 103703321CRT-006****REPORT DATE: October 29, 2018**

TEST OF (1) SQUARE CURVE LED SCONCE

MODEL NO. 7360

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
CRT1810091050-002-1	7360	Square Curve LED Sconce	Production	10/12/2018

DATE OF TESTS

October 29, 2018.

TEST REPORT

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SUMMARY

MODEL NO:	7360
DESCRIPTION:	Square Curve LED Sconce
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	EBR010U-0250-42

CRITERIA	RESULTS
Lumen Output (lumens)	319.1
Input Power (W) @ 120 (VAC)	9.80
Lumen Efficacy (lm/W)	32.6
Input Power Factor () @ 120 (VAC)	0.989

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	CAL DUE DATE	DATE USED
LSI High Speed Mirror Goniometer	6440	---	11/5/2018	10/29/2018
Elgar AC Power Supply	CW1251	---	VBU	10/29/2018
Sorenson DC Power Supply	XG 150-10	---	VBU	10/29/2018
Yokogawa Power Analyzer	WT210	E464	5/3/2019	10/29/2018
Omega Thermometer	DPi8-C24	M263	5/3/2019	10/29/2018
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	10/29/2018
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	10/29/2018
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	10/29/2018
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	10/29/2018
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	10/29/2018

TEST REPORT**REPORT NO.: 103703321CRT-006****REPORT DATE: October 29, 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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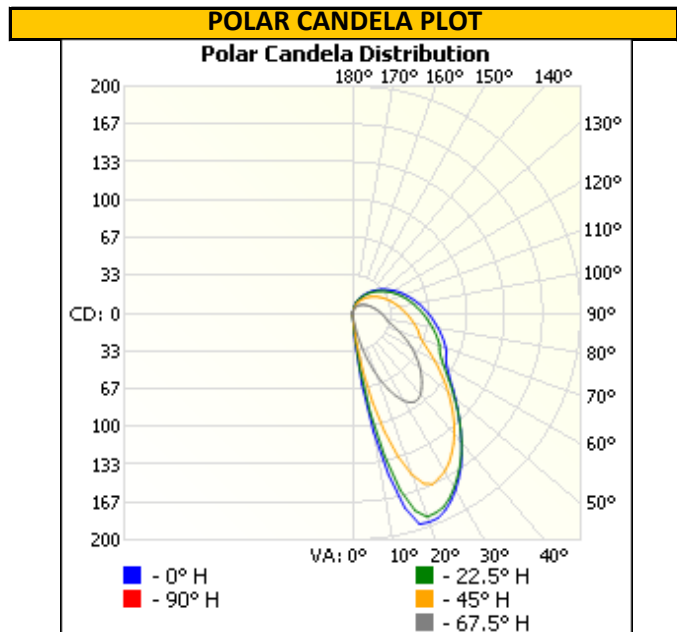
RESULTS OF TESTS

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)
CRT1810091050-002-1	Base Up	120.05	82.6	9.80	0.989	319.1	32.6

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	26	19	8	2	0
10	106	89	52	10	0
15	178	161	108	31	0
20	196	191	151	54	0
25	192	189	166	74	0
30	180	178	161	89	0
35	166	164	151	95	0
40	148	149	139	93	0
45	132	132	124	86	0
50	118	117	110	78	0
55	105	103	96	69	0
60	96	92	83	59	0
65	90	84	71	50	0
70	87	81	63	41	0
75	82	76	60	34	0
80	76	71	55	30	0
85	71	66	51	28	0
90	66	61	47	25	0
95	62	57	43	23	0
100	57	53	40	21	0
105	53	49	37	19	0
110	48	45	34	17	0
115	44	41	31	16	0
120	40	38	28	14	0
125	36	34	25	13	0
130	32	30	23	12	0
135	29	27	20	10	0
140	25	23	17	9	0
145	21	20	15	8	0
150	18	17	13	7	0
155	14	14	10	5	0
160	11	11	7	3	0
165	8	6	2	2	0
170	0	1	0	0	0



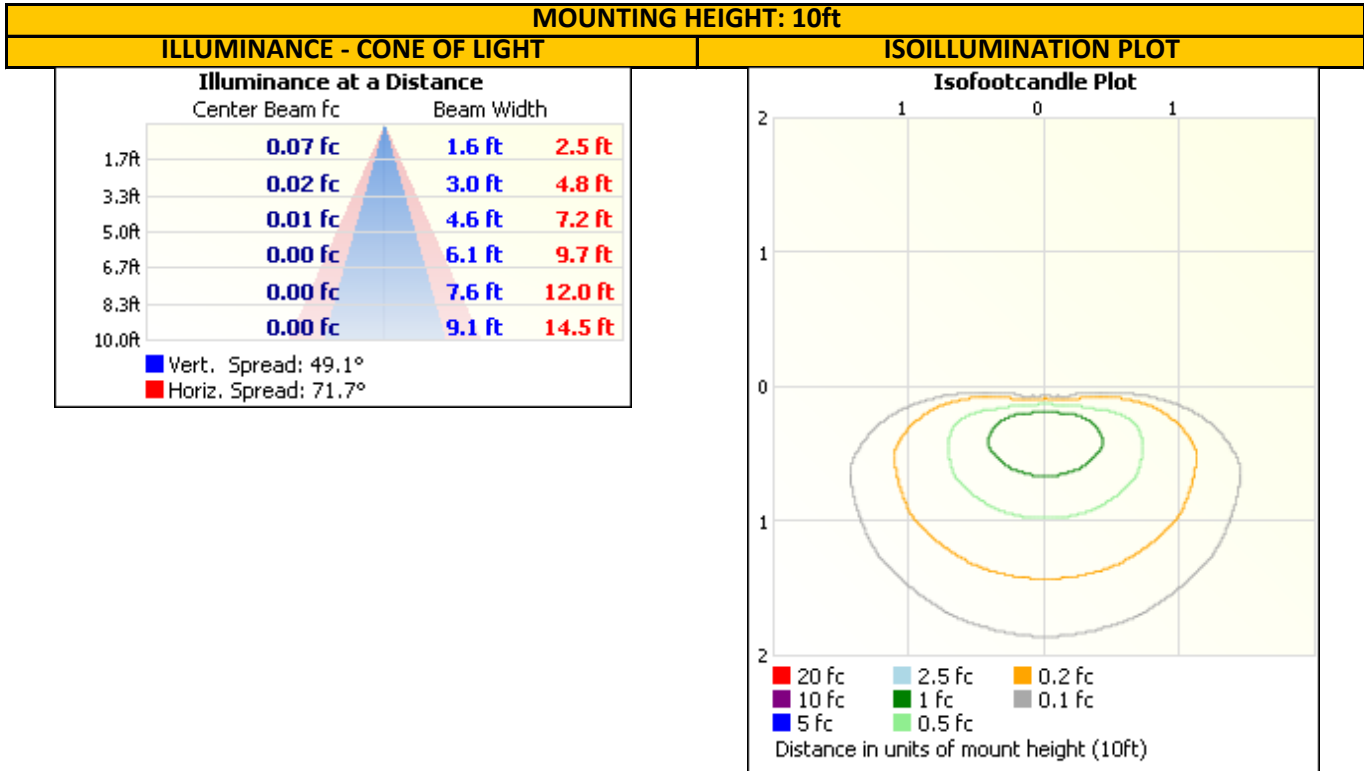
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RESULTS OF TESTS

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



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	45.0	14.1
0-40	83.5	26.2
0-60	158.9	49.8
60-90	83.9	26.3
0-90	242.8	76.1
90-180	76.3	23.9
0-180	319.1	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	1.2	0.4
10-20	13.8	4.3
20-30	30.0	9.4
30-40	38.5	12.1
40-50	39.5	12.4
50-60	35.9	11.3
60-70	31.4	9.8
70-80	27.9	8.7
80-90	24.7	7.7
90-100	21.1	6.6
100-110	17.4	5.4
110-120	13.7	4.3
120-130	10.2	3.2
130-140	7.0	2.2
140-150	4.3	1.3
150-160	2.2	0.7
160-170	0.5	0.2

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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:



Gerald Gray
Associate Engineer
Lighting Division

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				