

# SONNEMAN - A Way of Light

## TEST REPORT

### SCOPE OF WORK

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

### MODEL NUMBER

7287

### PROJECT NUMBER

G103703321

### REPORT NUMBER

103703321CRT-055

### ISSUE DATE

December 3, 2018

### REVISION DATE

None

### DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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**TEST REPORT**

**REPORT NO.: 103703321CRT-055**  
**REPORT DATE: December 3, 2018**

TEST OF (1) JAZZ NOTES 21" LED SCONCE

MODEL NO. 7287

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
CRT1811191254-001	7287	Jazz Notes 21" LED Sconce	Production	11/19/2018

**DATE OF TESTS**

November 30, 2018.

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REPORT DATE: December 3, 2018

SUMMARY

<b>MODEL NO:</b>	7287
<b>DESCRIPTION:</b>	Jazz Notes 21" LED Sconce
<b>LED MODEL NO:</b>	Not Provided
<b>DRIVER MODEL NO:</b>	ERP EBR015U-0350-42

CRITERIA	RESULTS
Lumen Output (lumens)	581.5
Input Power (W) @ 120 (VAC)	13.78
Lumen Efficacy (lm/W)	42.2
Input Power Factor ( ) @ 120 (VAC)	0.988

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	CAL DUE DATE	DATE USED
LSI High Speed Mirror Goniometer	6440	---	12/6/2018	11/30/2018
Elgar AC Power Supply	CW1251	---	VBU	11/30/2018
Sorenson DC Power Supply	XG 150-10	---	VBU	11/30/2018
Yokogawa Power Analyzer	WT210	E464	5/3/2019	11/30/2018
Omega Thermometer	DPi8-C24	M263	5/3/2019	11/30/2018
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	11/30/2018
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	11/30/2018
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	11/30/2018
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	11/30/2018
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	11/30/2018

**TEST REPORT****REPORT NO.: 103703321CRT-055****REPORT DATE: December 3, 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 (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.

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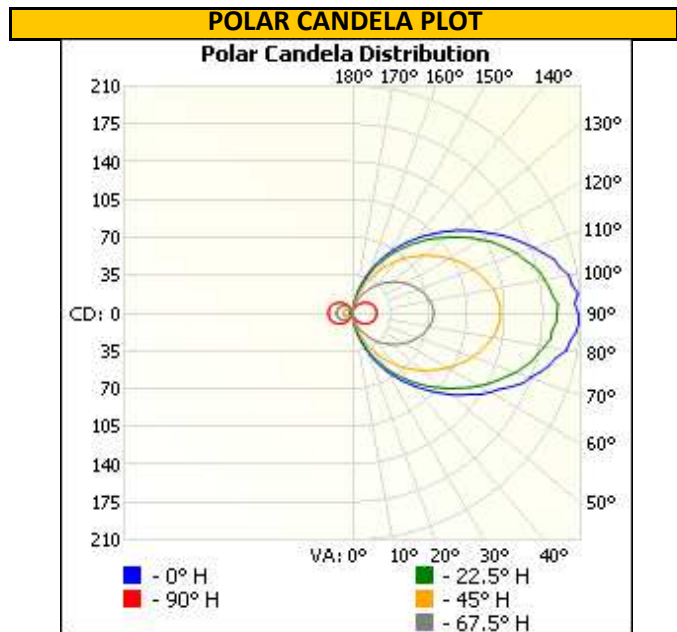
RESULTS OF TESTS

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)
CRT1811191254-001	Base Up	120.09	116.1	13.78	0.988	581.5	42.2

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	5	4	3	2	0
10	13	12	9	5	1
15	23	21	15	9	3
20	35	32	23	13	4
25	48	44	33	18	6
30	61	56	43	22	8
35	74	69	53	28	10
40	88	82	63	34	12
45	102	95	72	39	14
50	117	108	82	45	15
55	131	121	92	50	17
60	146	135	101	55	18
65	161	147	110	60	20
70	174	160	118	65	21
75	187	171	125	69	21
80	200	179	131	72	22
85	206	184	134	74	22
90	208	188	136	75	22
95	208	185	135	74	22
100	202	179	132	72	22
105	192	171	125	69	21
110	177	161	119	65	20
115	163	149	111	60	19
120	148	136	102	55	18
125	133	122	92	50	17
130	119	109	83	45	15
135	104	96	73	39	14
140	90	83	63	33	12
145	76	70	53	28	10
150	62	57	43	22	8
155	49	44	33	17	6
160	36	32	23	12	4
165	23	20	15	7	2
170	13	11	8	3	1
175	4	3	1	0	0



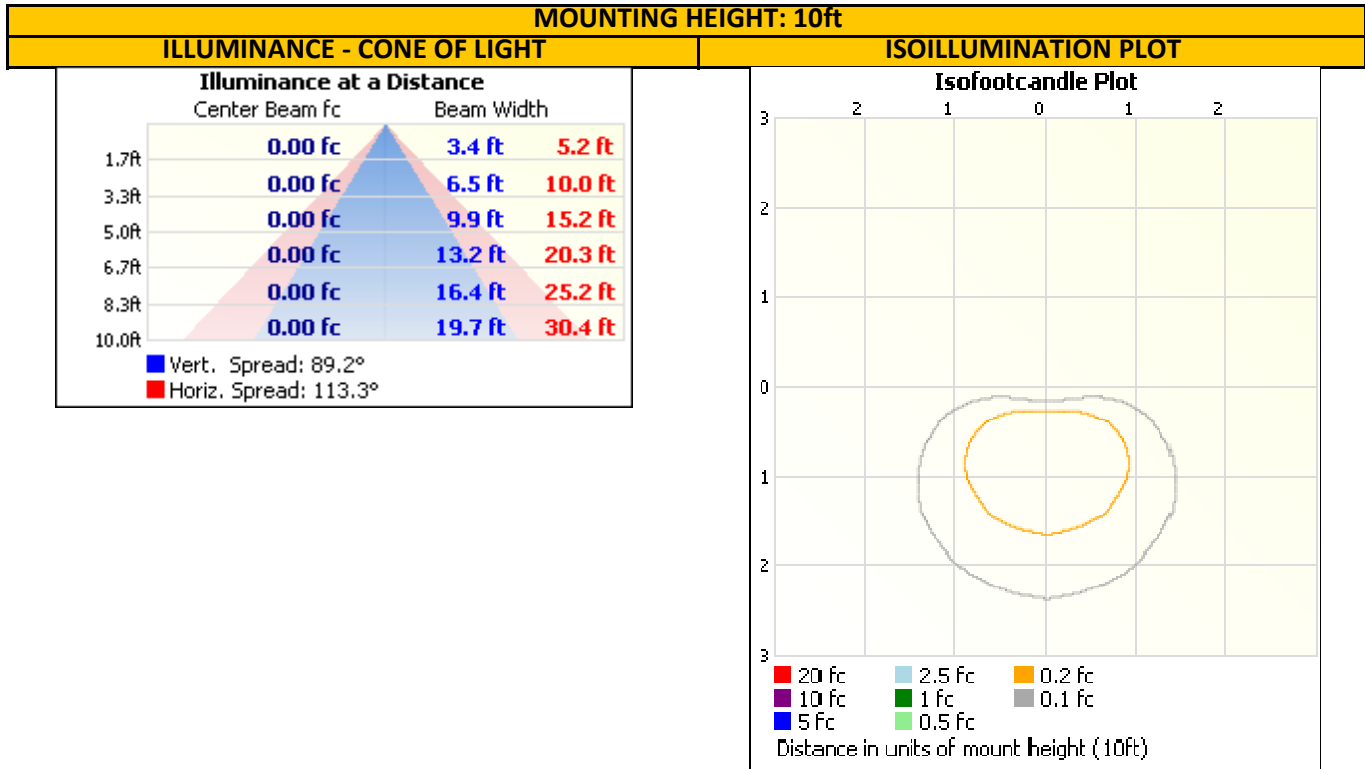
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RESULTS OF TESTS

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



**ZONAL LUMEN SUMMARY AND PERCENTAGES**

ZONE	LUMENS	% LUMINAIRE
0-30	10.3	1.8
0-40	26.7	4.6
0-60	95.3	16.4
60-90	194.7	33.5
0-90	290.1	49.9
90-180	291.5	50.1
0-180	581.5	100.0

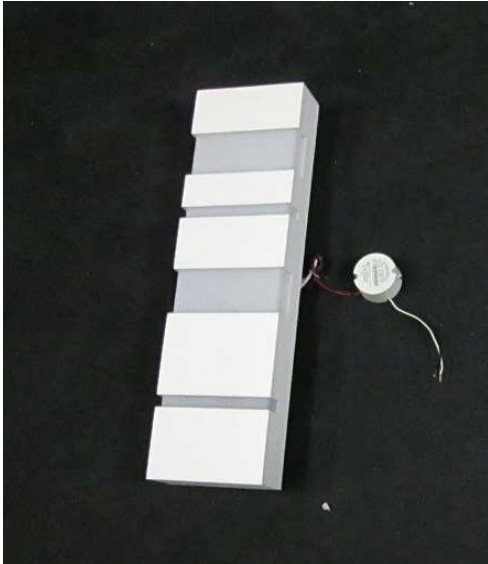
ZONE	LUMENS	% LUMINAIRE
0-10	0.2	0.0
10-20	2.3	0.4
20-30	7.7	1.3
30-40	16.4	2.8
40-50	27.8	4.8
50-60	40.9	7.0
60-70	54.4	9.4
70-80	66.4	11.4
80-90	74.0	12.7
90-100	74.1	12.7
100-110	66.7	11.5
110-120	54.8	9.4
120-130	41.2	7.1
130-140	28.0	4.8
140-150	16.5	2.8
150-160	7.7	1.3
160-170	2.2	0.4
170-180	0.2	0.0

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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:

Report Reviewed By:

Handwritten signature of Gerald Gray in black ink.

Handwritten signature of Melanie Brittain in black ink.

Gerald Gray  
Associate Engineer  
Lighting Division

Melanie Brittain  
Associate Engineer  
Lighting Division

Attachments: .IES File

## REVISION HISTORY

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