

# SONNEMAN - A WAY OF LIGHT

## TEST REPORT

### SCOPE OF WORK

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

### MODEL NUMBER

7300.PC.DL

### PROJECT NUMBER

G103703321

### REPORT NUMBER

103703321CRT-008

### ISSUE DATE

October 31, 2018

### REVISION DATE

None

### DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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**TEST REPORT****REPORT NO.: 103703321CRT-008****REPORT DATE: October 31, 2018**

TEST OF (1) REALS DOWNLIGHT LED SCONCE W/DOME LENS

MODEL NO. 7300.PC.DL

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
CRT1810091050-002-2	7300.PC.DL	REALS Downlight LED Sconce w/Dome Lens	Production	10/9/2018

**DATE OF TESTS**

October 30, 2018.

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**TEST REPORT**

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**REPORT DATE: October 31, 2018**

**SUMMARY**

<b>MODEL NO:</b>	7300.PC.DL
<b>DESCRIPTION:</b>	REALS Downlight LED Sconce w/Dome Lens
<b>LED MODEL NO:</b>	Not Provided
<b>DRIVER MODEL NO:</b>	EBR010U-0250-42

CRITERIA	RESULTS
Lumen Output (lumens)	607.9
Input Power (W) @ 120 (VAC)	9.65
Lumen Efficacy (lm/W)	63.0
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	10/30/2018
Elgar AC Power Supply	CW1251	---	VBU	10/30/2018
Sorenson DC Power Supply	XG 150-10	---	VBU	10/30/2018
Yokogawa Power Analyzer	WT210	E464	5/3/2019	10/30/2018
Omega Thermometer	DPi8-C24	M263	5/3/2019	10/30/2018
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	10/30/2018
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	10/30/2018
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	10/30/2018
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	10/30/2018
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	10/30/2018

**TEST REPORT****REPORT NO.: 103703321CRT-008****REPORT DATE: October 31, 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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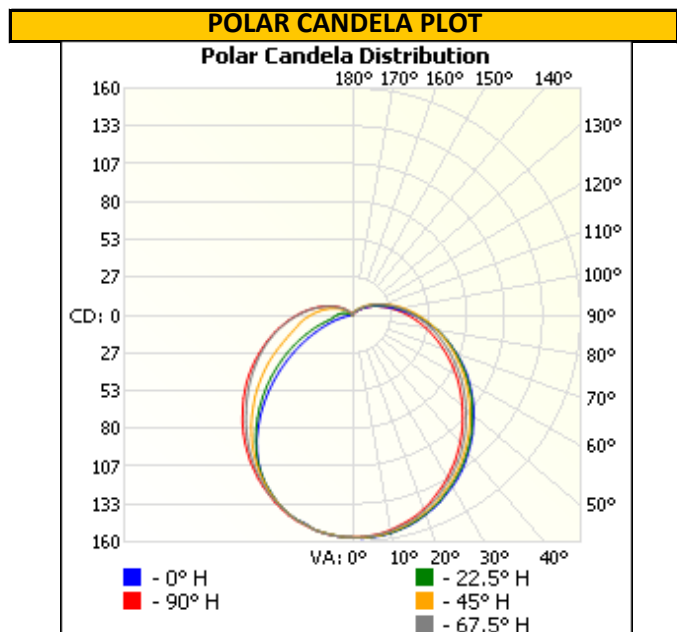
## RESULTS OF TESTS

### 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)
CRT1810091050-001	Horizontal	120.07	81.3	9.65	0.989	607.9	63.0

## INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	157	157	157	157	157
5	157	157	157	156	156
10	156	156	155	155	154
15	154	153	152	152	150
20	150	149	148	147	146
25	145	145	143	141	139
30	140	139	137	135	133
35	134	132	130	128	125
40	126	125	123	120	117
45	119	118	116	112	109
50	111	110	108	104	100
55	103	102	99	96	92
60	94	93	91	87	84
65	86	85	83	79	75
70	77	77	75	71	67
75	69	68	68	64	60
80	60	60	60	56	52
85	51	52	53	50	45
90	43	45	46	43	39
95	35	38	40	38	33
100	29	31	34	32	28
105	24	26	28	27	23
110	19	21	23	22	19
115	15	17	19	18	15
120	12	13	15	14	11
125	9	10	12	11	8
130	6	8	9	8	6
135	5	6	7	6	4
140	3	4	5	4	3
145	3	3	4	2	2
150	2	3	2	2	1
155	2	2	2	1	0
160	2	2	1	1	0
165	0	0	1	0	0



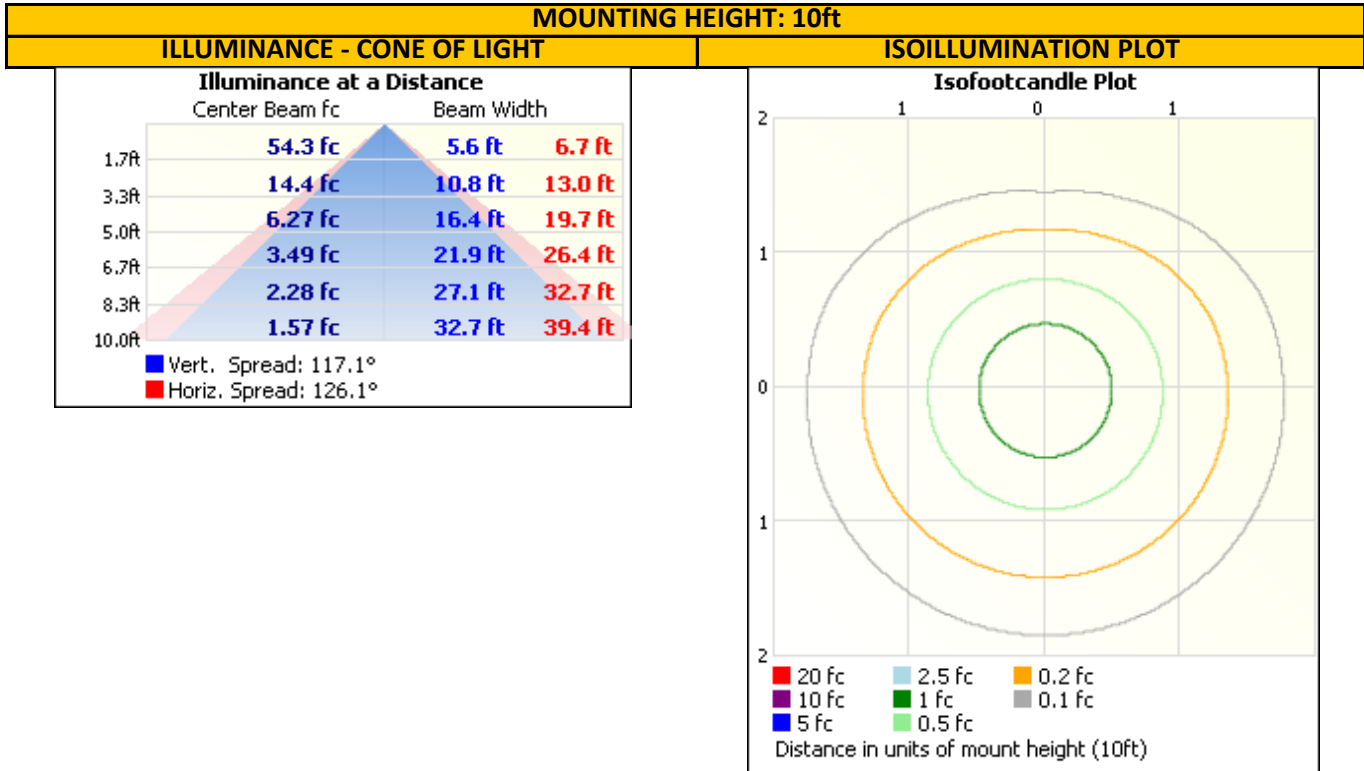
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RESULTS OF TESTS

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



**ZONAL LUMEN SUMMARY AND PERCENTAGES**

ZONE	LUMENS	% LUMINAIRE
0-30	122.1	20.1
0-40	200.5	33.0
0-60	361.5	59.5
60-90	167.9	27.6
0-90	529.4	87.1
90-180	78.5	12.9
0-180	607.9	100.0

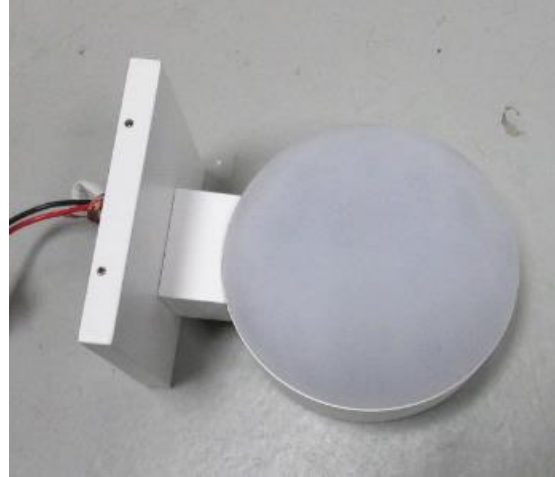
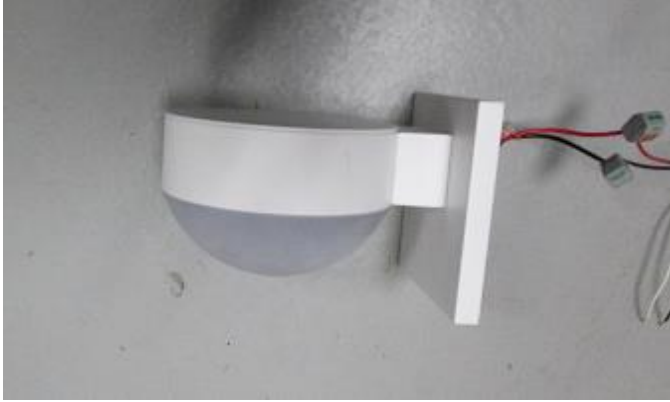
ZONE	LUMENS	% LUMINAIRE
0-10	14.9	2.4
10-20	42.6	7.0
20-30	64.7	10.6
30-40	78.4	12.9
40-50	82.5	13.6
50-60	78.5	12.9
60-70	68.6	11.3
70-80	55.9	9.2
80-90	43.4	7.1
90-100	31.9	5.2
100-110	21.4	3.5
110-120	13.1	2.2
120-130	7.1	1.2
130-140	3.3	0.5
140-150	1.2	0.2
150-160	0.4	0.1
160-170	0.1	0.0

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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:



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				