

SONNEMAN - A Way of Light

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

2780

PROJECT NUMBER

G103703321

REPORT NUMBER

103703321CRT-059

ISSUE DATE

January 9, 2019

REVISION DATE

None

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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TEST REPORT**REPORT NO.: 103703321CRT-059****REPORT DATE: January 9, 2019**

TEST OF (1) DAO LED WALL TORCHIERE

MODEL NO. 2780

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
CRT1901081030-001	2780	Dao LED Wall Torchiere	Production	1/8/2018

DATE OF TESTS

January 9, 2019.

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SUMMARY

MODEL NO:	2780
DESCRIPTION:	Dao LED Wall Torchiere
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	LTF TA60WA12LED

CRITERIA	RESULTS
Lumen Output (lumens)	1151.7
Input Power (W) @ 120 (VAC)	31.55
Lumen Efficacy (lm/W)	36.5
Input Power Factor () @ 120 (VAC)	0.950

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	CAL DUE DATE	DATE USED
LSI High Speed Mirror Goniometer	6440	---	2/7/2019	1/9/2019
Elgar AC Power Supply	CW1251	---	VBU	1/9/2019
Sorenson DC Power Supply	XG 150-10	---	VBU	1/9/2019
Yokogawa Power Analyzer	WT210	E464	5/3/2019	1/9/2019
Omega Thermometer	DPi8-C24	M263	5/3/2019	1/9/2019
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	1/9/2019
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	1/9/2019
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	1/9/2019
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	1/9/2019
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	1/9/2019

TEST REPORT**REPORT NO.: 103703321CRT-059****REPORT DATE: January 9, 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.

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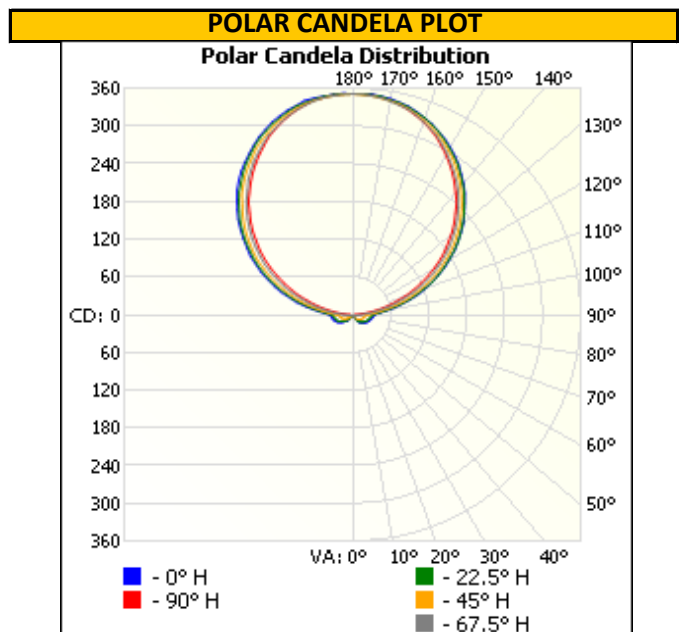
RESULTS OF TESTS

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)
CRT1901081030-001	Base Down	120.00	276.8	31.55	0.950	1151.7	36.5

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	0	0	0	0	0
10	0	0	0	0	0
15	0	0	0	0	0
20	0	0	0	0	0
25	0	0	0	0	0
30	0	0	0	0	0
35	6	1	0	0	0
40	15	14	1	0	0
45	18	16	8	0	0
50	20	18	12	0	0
55	22	20	13	1	0
60	24	22	15	4	0
65	26	24	16	4	0
70	28	25	17	5	0
75	30	27	18	6	0
80	31	28	19	6	0
85	33	30	20	8	0
90	35	33	26	14	0
95	46	44	37	26	13
100	68	66	58	45	36
105	95	93	84	71	62
110	122	121	112	100	91
115	150	149	140	129	119
120	177	176	168	157	150
125	203	203	195	186	178
130	229	227	220	211	205
135	250	249	244	235	230
140	272	271	265	259	253
145	292	290	285	278	275
150	308	306	302	297	294
155	321	321	317	314	312
160	333	333	329	327	326
165	342	342	339	338	338
170	348	346	345	344	346
175	352	350	349	349	351
180	351	351	351	351	351



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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	0.0	0.0
0-40	1.4	0.1
0-60	16.6	1.4
60-90	52.3	4.5
0-90	68.9	6.0
90-180	1082.9	94.0
0-180	1151.7	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	0.0	0.0
10-20	0.0	0.0
20-30	0.0	0.0
30-40	1.4	0.1
40-50	5.5	0.5
50-60	9.6	0.8
60-70	13.9	1.2
70-80	17.4	1.5
80-90	21.0	1.8
90-100	40.2	3.5
100-110	88.1	7.6
110-120	138.7	12.0
120-130	174.1	15.1
130-140	187.9	16.3
140-150	178.3	15.5
150-160	146.4	12.7
160-170	95.9	8.3
170-180	33.3	2.9

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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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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				