



# SONNEMAN - A WAY OF LIGHT TEST REPORT

## **SCOPE OF WORK**

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

# **MODEL NUMBER**

2660

# **PROJECT NUMBER**

G103703321

## **REPORT NUMBER**

103703321CRT-004

## **ISSUE DATE**

October 29, 2018

# **REVISION DATE**

None

#### **DOCUMENT CONTROL NUMBER**

RTTDS-R-AMER-Test-3407 © 2018 INTERTEK





**TEST REPORT** 

REPORT NO.: 103703321CRT-004 REPORT DATE: October 29, 2018

# TEST OF (1) INFINITY LED WALL TORCHIERE

MODEL NO. 2660

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
CDT10101711F2 001	3660	Infinity LED Wall	Draduation	10/12/2019
CRT1810171152-001	2660	Torchiere	Production	10/12/2018

#### **DATE OF TESTS**

October 26, 2018.

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**TEST REPORT** 

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# **SUMMARY**

MODEL NO:	
DESCRIPTION:	Infinity LED Wall Torchiere
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	EBR020U-0700-30

CRITERIA	RESULTS
Lumen Output (lumens)	1680.0
Input Power (W) @ 120 (VAC)	21.44
Lumen Efficacy (lm/W)	78.4
Input Power Factor ( ) @ 120 (VAC)	0.985

# **EQUIPMENT LIST**

EQUIPMENT USED	MODEL	CONTROL	CAL DUE	DATE
EQUIPIVIENT OSED	NO.	NO.	DATE	USED
LSI High Speed Mirror Goniometer	6440		11/5/2018	10/26/2018
Elgar AC Power Supply	CW1251		VBU	10/26/2018
Sorenson DC Power Supply	XG 150-10		VBU	10/26/2018
Yokogawa Power Analyzer	WT210	E464	5/3/2019	10/26/2018
Omega Thermometer	DPi8-C24	M263	5/3/2019	10/26/2018
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	10/26/2018
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	10/26/2018
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	10/26/2018
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	10/26/2018
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	10/26/2018



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# **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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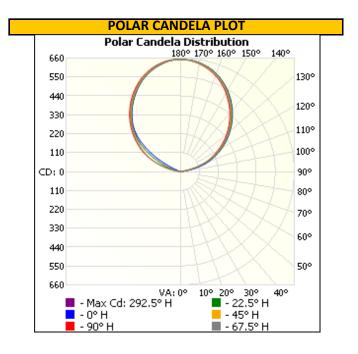
# **RESULTS OF TESTS**

# 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 (Im/W)
CRT1810171152-001	Horizontal	120.05	181.3	21.44	0.985	1680.0	78.4

# **INTENSITY SUMMARY - CANDELAS**

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	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	3	0	2	0	0
90	5	4	3	0	0
95	14	6	5	3	2
100	60	31	16	32	44
105	121	96	81	92	100
110	177	166	154	156	154
115	228	225	217	212	205
120	280	277	270	263	256
125	330	325	320	313	305
130	377	373	368	361	354
135	423	420	415	408	401
140	468	464	459	453	446
145	508	505	500	495	488
150	546	543	539	534	528
155	579	576	573	568	564
160	607	605	602	598	594
165	628	627	625	622	619
170	643	642	640	638	637
175	652	651	650	650	649
180	654	654	654	654	654



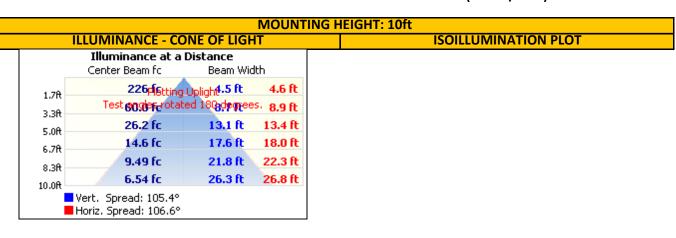


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# **RESULTS OF TESTS**

# 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	0.0	0.0
0-60	0.0	0.0
60-90	0.6	0.0
0-90	0.6	0.0
90-180	1679.4	100.0
0-180	1680.0	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	0.0	0.0
40-50	0.0	0.0
50-60	0.0	0.0
60-70	0.0	0.0
70-80	0.0	0.0
80-90	0.6	0.0
90-100	9.0	0.5
100-110	85.8	5.1
110-120	191.4	11.4
120-130	273.1	16.3
130-140	313.2	18.6
140-150	308.6	18.4
150-160	261.4	15.6
160-170	175.2	10.4
170-180	61.7	3.7



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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:

Gerald Gray Associate Engineer Lighting Division

Attachments: IES File

**REVISION HISTORY** 

Ryan Siddon Project Engineer Lighting Division

Ryan Siddon

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