

SONNEMAN - A WAY OF LIGHT

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

2883

PROJECT NUMBER

G103703321

REPORT NUMBER

103703321CRT-088

ISSUE DATE

May 21, 2019

REVISION DATE

None

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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TEST REPORT**REPORT NO.: 103703321CRT-088****REPORT DATE: May 21, 2019**

TEST OF (1) COUNTERPOINT 6-LIGHT LED PENDANT

MODEL NO. 2883

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-00932265-0.

STANDARDS USED

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

SAMPLE INFORMATION

CONTROL NO.	MODEL/SERIAL NO.	DESCRIPTION	TYPE	RECEIVED
CRT1905150945-003	2883	Counterpoint 6-Light LED Pendant	Production	5/15/2019

DATE OF TESTS

May 20, 2019.

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REPORT NO.: 103703321CRT-088

REPORT DATE: May 21, 2019

SUMMARY

MODEL NO:	2883
DESCRIPTION:	Counterpoint 6-Light LED Pendant
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	EBR020U-0500-37

CRITERIA	RESULTS
Lumen Output (lumens)	1121.2
Input Power (W) @ 120 (VAC)	15.89
Lumen Efficacy (lm/W)	70.6
Input Power Factor () @ 120 (VAC)	0.981

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	CAL DUE DATE	DATE USED
LSI High Speed Mirror Goniometer	6440	---	6/6/2019	5/20/2019
Elgar AC Power Supply	CW1251	---	VBU	5/20/2019
Sorenson DC Power Supply	XG 150-10	---	VBU	5/20/2019
Yokogawa Power Analyzer	WT210	E464	5/7/2020	5/20/2019
Omega Thermometer	DPI8-C24	M263	5/7/2020	5/20/2019
M-D Building Products Digital Level	Smart Tool	L112	5/1/2020	5/20/2019
NIST Luminous Intensity Standard Source	NBS10322	N1427	2/11/2021	5/20/2019
NIST Luminous Intensity Standard Source	NBS10332	N1435	2/11/2021	5/20/2019
NIST Luminous Intensity Standard Source	NBS10265	N1437	2/11/2021	5/20/2019
NIST Luminous Flux Standard Source	NBS10428	N1424	1/3/2021	5/20/2019

TEST REPORT**REPORT NO.: 103703321CRT-088****REPORT DATE: May 21, 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.

The calibration of the goniometer-photometer system is traceable to the National Institute of Standards and Technology.

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REPORT NO.: 103703321CRT-088

REPORT DATE: May 21, 2019

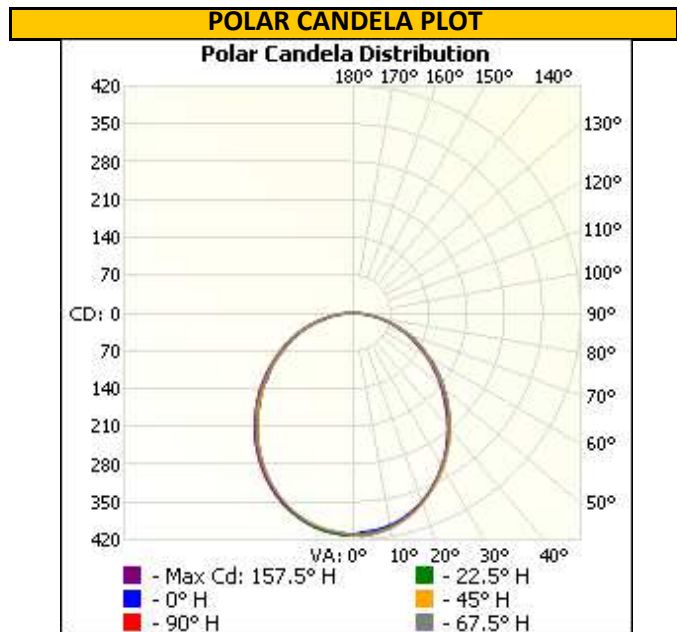
RESULTS OF TESTS

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)
CRT1905150945-002	Base Up	120.09	134.9	15.89	0.981	1121.2	70.6

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	410	410	410	410	410
5	404	408	411	409	407
10	398	401	404	402	400
15	387	390	392	389	388
20	371	374	376	373	372
25	351	354	355	352	352
30	329	332	332	329	328
35	303	306	306	304	302
40	277	279	278	276	274
45	248	250	248	248	243
50	220	221	219	218	214
55	192	193	190	187	185
60	162	162	164	156	157
65	134	135	131	130	127
70	106	106	105	104	101
75	74	80	79	76	74
80	52	54	52	50	46
85	28	28	27	24	22
90	9	10	10	10	11
95	6	6	6	6	6
100	6	6	6	5	6
105	6	5	5	5	5
110	5	5	5	4	5
115	5	5	4	4	4
120	4	4	4	3	4
125	4	4	3	2	3
130	3	3	3	2	3
135	2	2	2	2	2
140	2	2	1	1	2
145	2	1	1	1	1
150	1	1	1	1	1
155	1	0	1	1	1
160	0	0	1	0	0



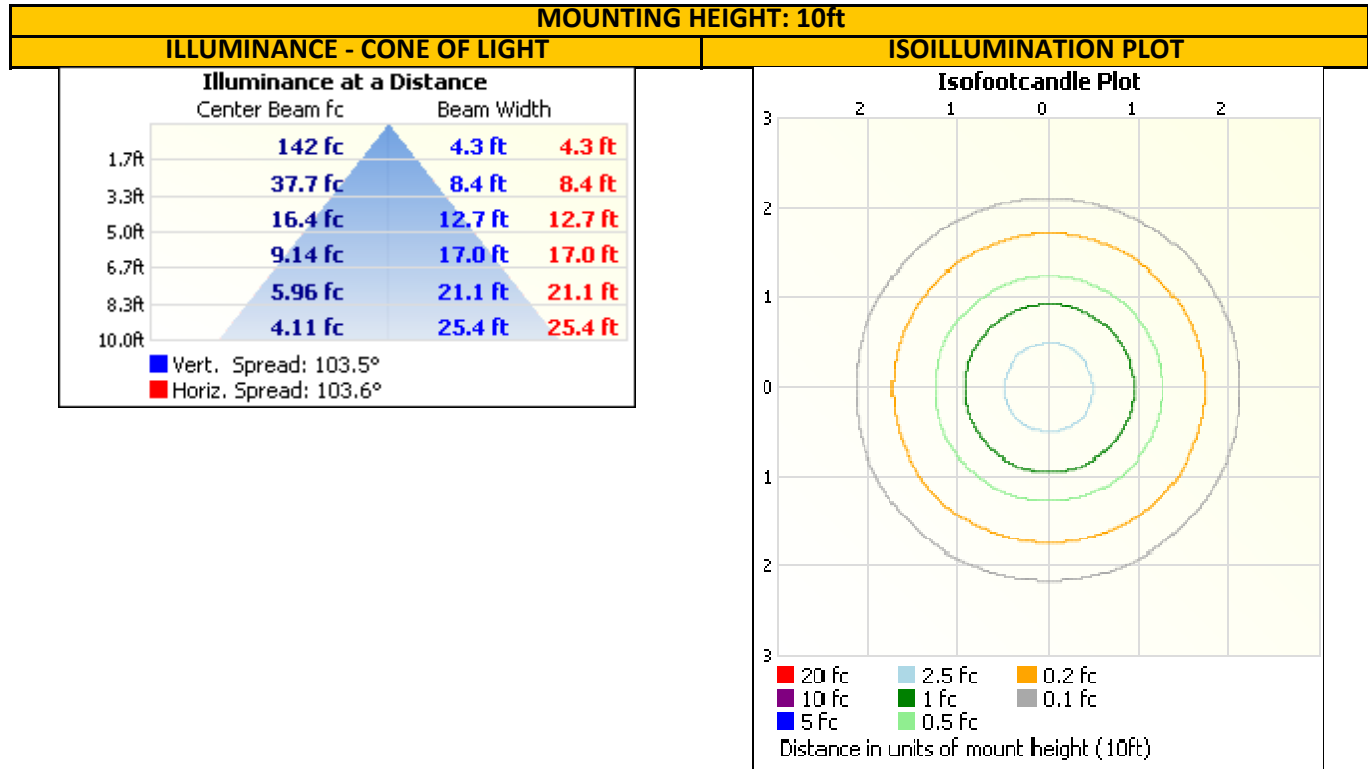
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REPORT NO.: 103703321CRT-088

REPORT DATE: May 21, 2019

RESULTS OF TESTS

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



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	310.7	27.7
0-40	500.5	44.6
0-60	859.5	76.7
60-90	238.3	21.3
0-90	1097.9	97.9
90-180	23.3	2.1
0-180	1121.2	100.0

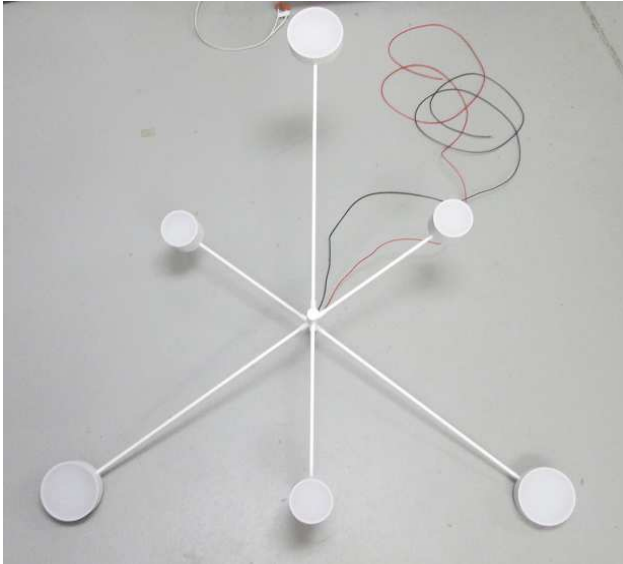
ZONE	LUMENS	% LUMINAIRE
0-10	38.7	3.5
10-20	109.6	9.8
20-30	162.4	14.5
30-40	189.8	16.9
40-50	190.5	17.0
50-60	168.5	15.0
60-70	129.7	11.6
70-80	79.7	7.1
80-90	28.9	2.6
90-100	7.5	0.7
100-110	5.6	0.5
110-120	4.4	0.4
120-130	2.9	0.3
130-140	1.7	0.1
140-150	0.8	0.1
150-160	0.3	0.0
160-170	0.1	0.0

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REPORT NO.: 103703321CRT-088

REPORT DATE: May 21, 2019

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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Report Reviewed By:

Melanie Brittain
Associate Engineer
Lighting Division

Attachments: .IES File

REVISION HISTORY

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