

SONNEMAN - A Way of Light

TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

3799

PROJECT NUMBER

G103703321

REPORT NUMBER

103703321CRT-060

ISSUE DATE

January 18, 2019

REVISION DATE

None

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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TEST REPORT

REPORT NO.: 103703321CRT-060

REPORT DATE: January 18, 2019

TEST OF (1) NEW EDGE 40" LED BATH BAR

MODEL NO. 3799

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.

STANDARDS USED

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

SAMPLE INFORMATION

CONTROL NO.	MODEL/SERIAL NO.	DESCRIPTION	TYPE	RECEIVED
CRT1901151048-001	3799	New Edge 40" LED Bath Bar	Production	1/15/2019

DATE OF TESTS

January 17, 2019.

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SUMMARY

MODEL NO:	3799
DESCRIPTION:	New Edge 40" LED Bath Bar
LED MODEL NO:	Not Provided
DRIVER MODEL NO:	ERP EBR020U-0500-42

CRITERIA	RESULTS
Lumen Output (lumens)	1474.0
Input Power (W) @ 120 (VAC)	19.70
Lumen Efficacy (lm/W)	74.8
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	---	2/7/2019	1/17/2019
Elgar AC Power Supply	CW1251	---	VBU	1/17/2019
Sorenson DC Power Supply	XG 150-10	---	VBU	1/17/2019
Yokogawa Power Analyzer	WT210	E464	5/3/2019	1/17/2019
Omega Thermometer	DPI8-C24	M263	5/3/2019	1/17/2019
M-D Building Products Digital Level	Smart Tool	L112	4/21/2019	1/17/2019
NIST Luminous Intensity Standard Source	NBS10322	N1427	1/9/2019	1/17/2019
NIST Luminous Intensity Standard Source	NBS10332	N1435	1/9/2019	1/17/2019
NIST Luminous Intensity Standard Source	NBS10265	N1437	1/9/2019	1/17/2019
NIST Luminous Flux Standard Source	NBS10428	N1424	1/11/2019	1/17/2019

*Note: NIST Lamps were used to calibrate before their due date.

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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 (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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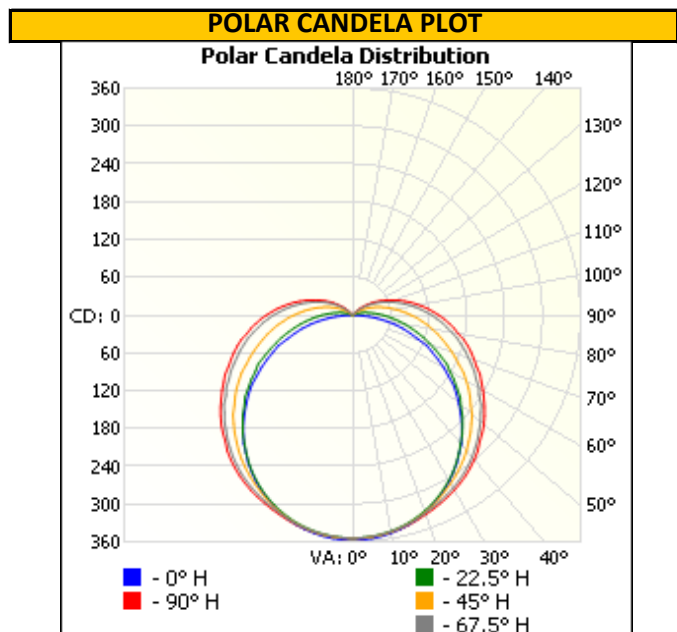
RESULTS OF TESTS

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)
CRT1901151048-001	Base Up	120.01	166.1	19.70	0.988	1474.0	74.8

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	354	354	354	354	354
5	356	352	353	352	354
10	351	348	350	349	350
15	344	341	343	343	345
20	333	331	333	334	337
25	320	318	322	326	329
30	305	303	309	317	321
35	287	285	295	306	311
40	267	265	280	293	299
45	244	245	263	279	284
50	219	223	246	264	270
55	195	201	226	248	254
60	166	177	207	230	238
65	138	153	185	212	222
70	109	128	166	194	204
75	83	105	146	177	188
80	54	84	128	159	170
85	26	65	110	142	153
90	2	48	93	125	136
95	2	34	77	108	119
100	1	23	62	92	102
105	1	14	49	76	86
110	0	7	37	62	70
115	0	1	26	48	56
120	0	0	17	36	42
125	0	0	9	24	30
130	0	0	2	14	19
135	0	0	0	6	10
140	0	0	0	0	1



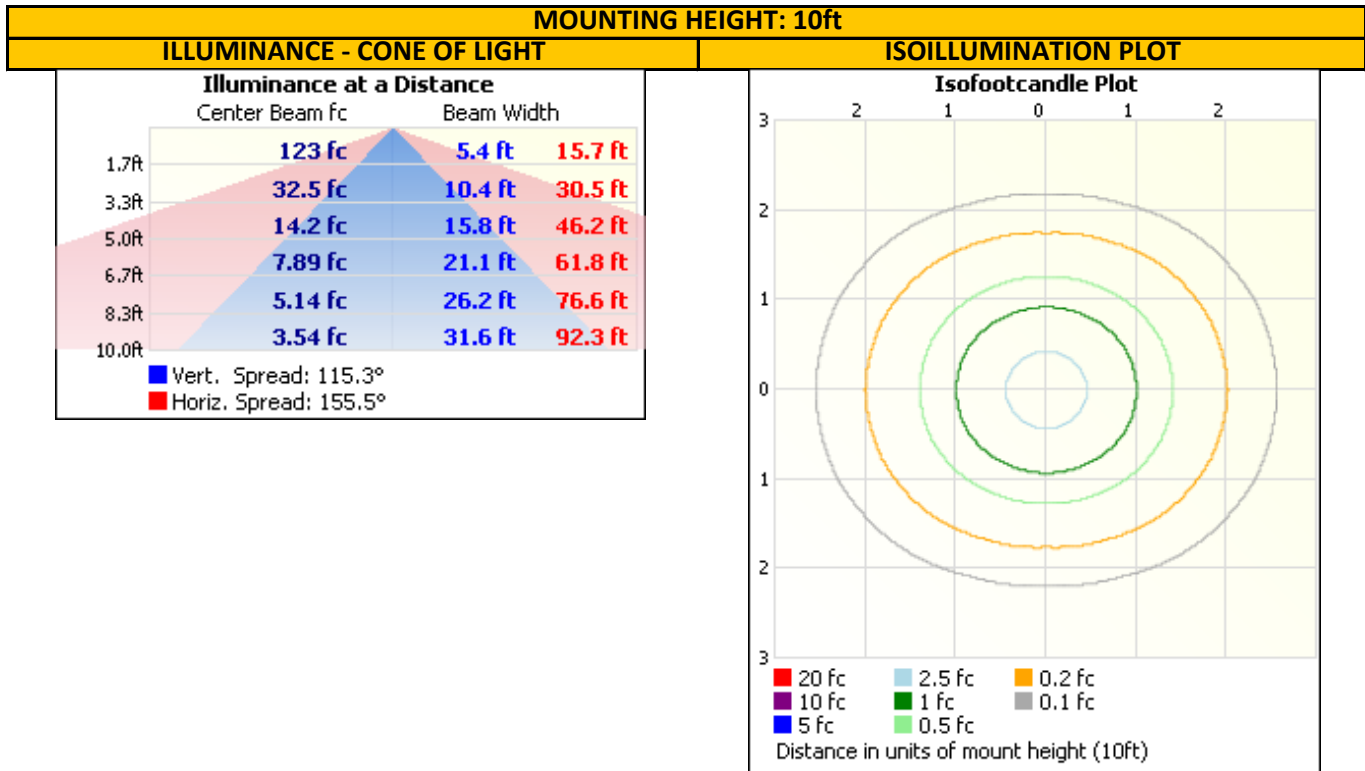
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RESULTS OF TESTS

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



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	279.2	18.9
0-40	464.8	31.5
0-60	868.7	58.9
60-90	441.2	29.9
0-90	1309.9	88.9
90-180	164.1	11.1
0-180	1474.0	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	33.6	2.3
10-20	96.7	6.6
20-30	148.9	10.1
30-40	185.6	12.6
40-50	203.0	13.8
50-60	200.9	13.6
60-70	181.1	12.3
70-80	149.0	10.1
80-90	111.1	7.5
90-100	76.3	5.2
100-110	48.4	3.3
110-120	26.1	1.8
120-130	11.1	0.7
130-140	2.3	0.2

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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				