

CONTEMPORARY VISIONS, LLC DBA SONNEMAN - A WAY OF LIGHT TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

25FN1SBVSTSK2700NSV1

PROJECT NUMBER

G104629313

REPORT NUMBER

104629313CRT-007

ISSUE DATE

4/30/2021

REVISED DATE

None

TEST DATES

4/29/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104629313CRT-007

MODEL NUMBER(s)

25FN1SBVSTSK2700NSV1

REPORT RENDERED TO:

CONTEMPORARY VISIONS, LLC DBA SONNEMAN - A WAY OF LIGHT
20 NORTH AVE
LARCHMONT, NY 10538-2463
USA

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-01145763-1.

TEST STANDARDS

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

In Charge of Testing:



Kristie Ray
Team Lead, Engineering
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Reviewer:



Melanie Brittain
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SAMPLE INFORMATION

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Aperture	Power	Finish	Nominal CCT	Regress
1"	Standard	Satin Black	2700K	Standard

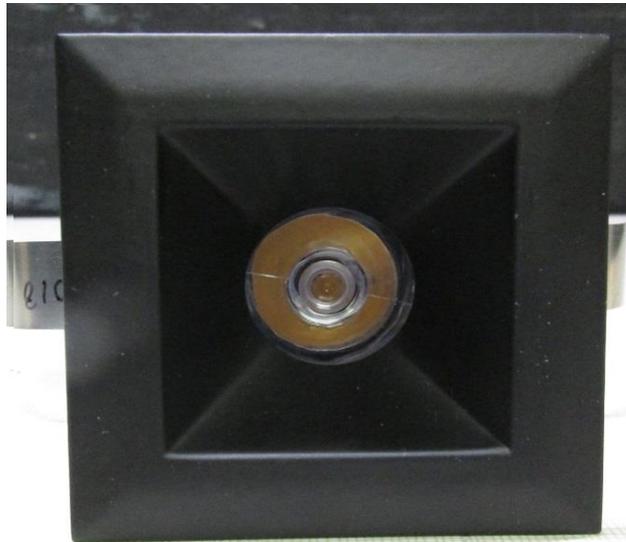
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Shape/ Style	Type	Received
1	CRT2104200958-001-001	25L12700V1	Light Engine	N/A	Production	4/20/2021
2	CRT2103221293-002-040	DL26W400C0415-300	Driver	N/A	Production	3/22/2021
3	CRT2103231335-006	DS25W24VBF1UD-0000	Driver	N/A	Production	3/23/2021
4	CRT2103221293-002-003	25O1NS	Primary Optic	Narrow Spot	Production	3/22/2021
5	CRT2103221293-002-018	25T1SBVSTSK	Trim	Square Bevel	Production	3/22/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	25FN1SBVSTSK2700NSV1	1-5

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN1SBVSTSK2700NSV1
Product Description:	Recessed Downlight
LED Model No.:	Cree XHP35.2
Driver Model No.:	L.T.F. DL26W400C0415-300, L.T.F. DS25W24VBF1UD-0000
Light Source:	LED

Criteria	Results
Light Output (lumens)	369.0
Input Power (W) @ 120 (Vac)	8.54
Lumen Efficacy (lm/W)	43.2
Input Power Factor () @ 120 (Vac)	0.925

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	25FN1SBVSTSK2700NSV1	NA

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

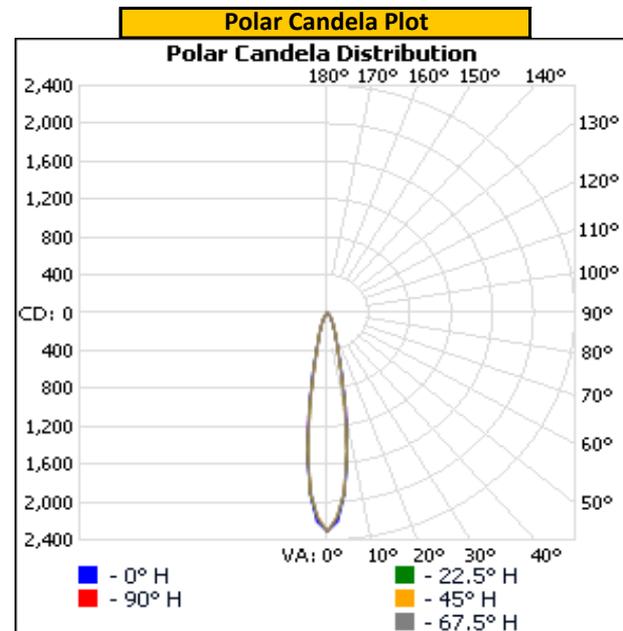
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.01	76.9	8.54	0.925

Light Output (lm)	Lumen Efficacy (lm/W)
369.0	43.2

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	2310	2310	2310	2310	2310
5	1916	1911	1901	1887	1891
10	1008	970	948	970	1012
15	405	387	385	374	376
20	214	216	219	210	209
25	124	124	132	128	125
30	76	78	83	81	79
35	46	46	53	52	49
40	21	25	32	28	24
45	0	6	18	11	0
50	0	0	8	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	0	0	0	0	0
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Entire luminous intensity matrix found in .IES file



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ORIENTATION AND ALIGNMENT OF EUT

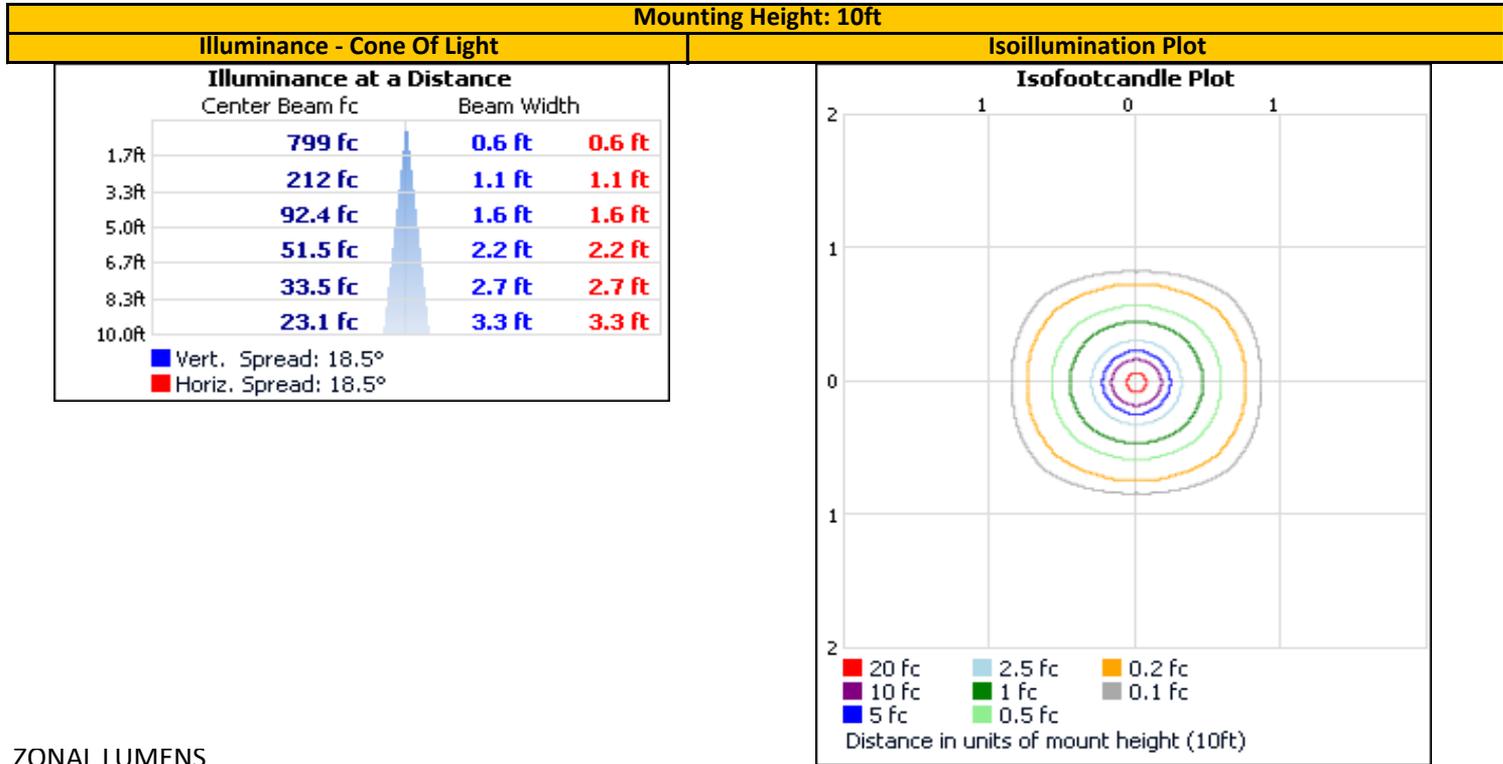
Luminous Opening		
Length (ft)	Width (ft)	Height (ft)
0.25	0.25	0.00
0°-180° H	90°-270° H	0°-180° V

Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	329.1	89.2%	0-10	148.9	40.4%
0-40	360.3	97.7%	10-20	119.9	32.5%
0-60	369.0	100.0%	20-30	60.2	16.3%
60-90	0.0	0.0%	30-40	31.3	8.5%
70-100	0.0	0.0%	40-50	8.4	2.3%
90-120	0.0	0.0%	50-60	0.3	0.1%
0-90	369.0	100.0%	60-70	0.0	0.0%
90-180	0.0	0.0%	70-80	0.0	0.0%
0-180	369.0	100.0%	80-90	0.0	0.0%
			90-100	0.0	0.0%
			100-110	0.0	0.0%
			110-120	0.0	0.0%
			120-130	0.0	0.0%
			130-140	0.0	0.0%
			140-150	0.0	0.0%
			150-160	0.0	0.0%
			160-170	0.0	0.0%
			170-180	0.0	0.0%

EQUIPMENT LIST

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	LSI High Speed Mirror Goniophotometer	6440	---	4/15/2021	7/15/2021
2	Elgar AC Power Supply	CW1251	---	VBU	VBU
3	Yokogawa Power Analyzer	WT210	E464	5/11/2020	5/11/2021
4	Traceable Hygrothermometer	4800	L204	2/21/2021	2/21/2022
5	M-D Building Products Digital Level	Smart Tool	307-L112	5/14/2020	5/14/2021
6	Sorenson DC Power Supply	XG 150-10	---	VBU	VBU
7	Traceable Thermometer	4800	L204	2/12/2021	2/12/2022
8	Bosch Distance Laser	Pro GLM 20	L211	3/3/2021	3/3/2022

REVISION HISTORY

#	Revision Date	Updated By	Reviewed By	Description of Change
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