

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

## SCOPE OF WORK

LED Performance Testing

## MODEL NUMBER

25FN3RWWSTSK2700WWCFSKV1SOL

## PROJECT NUMBER

G104629313

## REPORT NUMBER

104629313CRT-061

## ISSUE DATE

4/30/2021

## REVISED DATE

None

## TEST DATES

4/28/2021

## DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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**REPORT NUMBER**

104629313CRT-061

**MODEL NUMBER(s)**

25FN3RWWSTSK2700WWCFSKV1SOL

**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:

Reviewer:



Kristie Ray  
Team Lead, Engineering  
Lighting Division



Melanie Brittain  
Senior Associate Engineer  
Lighting Division

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**SAMPLE INFORMATION**

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Aperture	Power	Finish	Nominal CCT	Regress
3"	500mA	Satin Black	2700K	Standard

**ITEMS RECEIVED**

Item No.	Control No.	Model No.	Description	Shape/ Style	Type	Received
1	CRT2103221293-002-039	25L32700V1	Light Engine	N/A	Production	3/22/2021
2	CRT2103221293-002-048	PHB30W-0500-42 @ 500mA	Driver	N/A	Production	3/22/2021
3	CRT2103221293-002-043	25ZSOL03	Primary Optic	Microprism	Production	3/22/2021
4	CRT2103221293-002-041	25T3RWWSTSK	Trim	Round Wall Wash	Production	3/22/2021
5	CRT2103221293-002-052	25F3RCFSK	Ring	N/A	Production	3/22/2021
6	CRT2103221293-002-021	25R3R	Reject Plate	N/A	Production	3/22/2021
7	CRT2103231335-003	25HICCP	Housing	N/A	Production	3/23/2021
8	CRT2103221293-002-042	White Ring	Accessory	Ring	Production	3/22/2021

**TESTED SAMPLE CONFIGURATIONS**

Config No.	Tested Model No.	Item Nos. Utilized
1	25FN3RWWSTSK2700WWCFSKV1SOL	1-8

**SAMPLE PHOTOS - TESTED CONFIGURATIONS**



## SUMMARY

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### PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN3RWWSTSK2700WWCF5KV150L
Product Description:	Recessed Downlight
LED Model No.:	Cree CXB1512
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	972.5
Input Power (W) @ 120 (Vac)	20.78
Lumen Efficacy (lm/W)	46.8
Input Power Factor ( ) @ 120 (Vac)	0.998

## 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	25FN3RWWSTSK2700WWCF5KV1SOL	NA

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

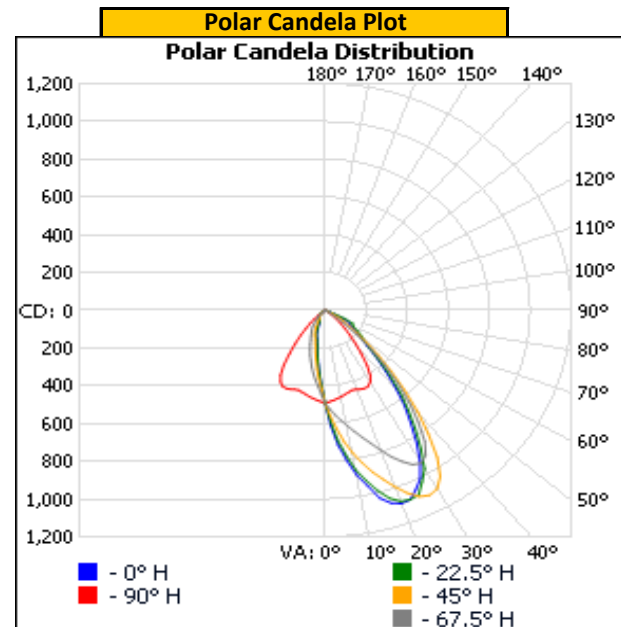
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.03	175.2	20.78	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
972.5	46.8

**INTENSITY SUMMARY - CANDELA**

Angle	0	22.5	45	67.5	90
0	494	494	494	494	494
5	715	690	629	557	477
10	886	859	766	622	463
15	1030	990	886	697	447
20	1088	1077	995	787	445
25	1046	1077	1088	883	456
30	924	968	1091	935	438
35	726	765	952	846	354
40	532	570	703	639	229
45	354	367	452	410	134
50	235	242	261	202	69
55	167	193	145	58	22
60	132	153	69	14	7
65	53	102	14	2	0
70	11	8	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)
0.10	0.13	0.00
0°-180° H	90°-270° H	0°-180° V

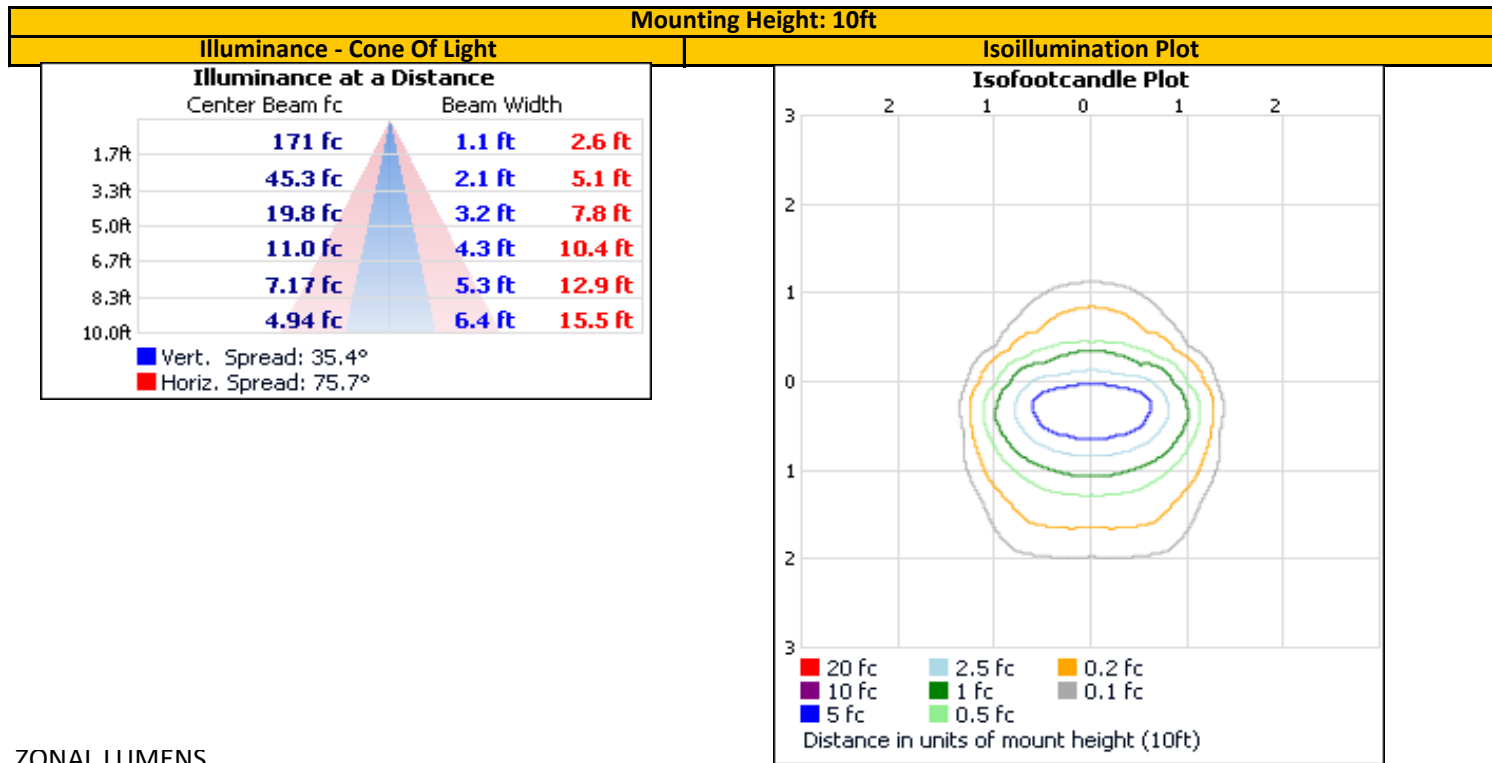
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	451.5	46.4%	0-10	48.0	4.9%
0-40	720.7	74.1%	10-20	150.8	15.5%
0-60	952.0	97.9%	20-30	252.6	26.0%
60-90	20.5	2.1%	30-40	269.3	27.7%
70-100	0.2	0.0%	40-50	164.0	16.9%
90-120	0.0	0.0%	50-60	67.2	6.9%
0-90	972.5	100.0%	60-70	20.3	2.1%
90-180	0.0	0.0%	70-80	0.2	0.0%
0-180	972.5	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%

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**UNIFIED GLARE RATING (UGR) SUMMARY**

Reflectances					
Ceiling Cavity	70	70	50	50	30
Walls	50	30	50	30	30
Floor Cavity	20	20	20	20	20

Room Size	
X=2H	Y=2H
	3H
	4H
	6H
	8H
	12H

UGR Viewed Crosswise				
31.8	33.1	32.2	33.4	33.7
31.8	32.9	32.2	33.2	33.6
31.7	32.7	32.1	33.1	33.5
31.6	32.6	32.1	32.9	33.3
31.6	32.5	32.0	32.9	33.3
31.5	32.4	32.0	32.8	33.2

4H	2H
	3H
	4H
	6H
	8H
	12H

31.6	32.6	32.0	33.0	33.4
31.6	32.4	32.0	32.8	33.2
31.5	32.2	31.9	32.6	33.1
31.4	32.0	31.9	32.5	32.9
31.3	31.9	31.8	32.4	32.8
31.3	31.8	31.8	32.3	32.7

8H	4H
	6H
	8H
	12H

31.3	31.9	31.8	32.4	32.8
31.2	31.7	31.7	32.2	32.7
31.2	31.6	31.7	32.1	32.6
31.1	31.5	31.6	32.0	32.5

12H	4H
	6H
	8H

31.3	31.8	31.8	32.3	32.7
31.2	31.6	31.7	32.1	32.6
31.1	31.5	31.6	32.0	32.5

Room Size	
X=2H	Y=2H
	3H
	4H
	6H
	8H
	12H

UGR Viewed Endwise				
17.0	18.3	17.4	18.6	18.9
16.9	18.0	17.3	18.3	18.7
16.8	17.8	17.2	18.2	18.5
16.7	17.6	17.1	18.0	18.4
16.7	17.5	17.1	17.9	18.3
16.6	17.4	17.0	17.8	18.3

4H	2H
	3H
	4H
	6H
	8H
	12H

17.4	18.4	17.8	18.7	19.1
17.2	18.0	17.6	18.4	18.8
17.1	17.8	17.6	18.3	18.7
17.0	17.7	17.5	18.1	18.6
17.0	17.5	17.4	18.0	18.5
16.9	17.4	17.4	17.9	18.4

8H	4H
	6H
	8H
	12H

17.0	17.6	17.5	18.0	18.5
16.9	17.3	17.4	17.8	18.3
16.8	17.2	17.3	17.7	18.2
16.7	17.1	17.3	17.6	18.2

12H	4H
	6H
	8H

16.9	17.4	17.4	17.9	18.4
16.8	17.2	17.3	17.7	18.2
16.7	17.1	17.3	17.6	18.2

Maximum UGR
33.7



**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
---	None	---	---	---
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