

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

**SCOPE OF WORK**

LED Performance Testing

**MODEL NUMBER**

25FN4RBBVSTSK2700NSCF5KV1 (500mA)

**PROJECT NUMBER**

G104629313

**REPORT NUMBER**

104629313CRT-082

**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-082

**MODEL NUMBER(s)**

25FN4RBVSTSK2700NSCFSKV1 (500MA)

**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  
Lighting Division

Reviewer:



Jeff Davis  
Lighting Performance Technical Lead  
Lighting Division

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**SAMPLE INFORMATION**

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Aperture	Power	Finish	Nominal CCT	Regress
4"	500mA	Satin Black	2700K	Standard

**ITEMS RECEIVED**

Item No.	Control No.	Model No.	Description	Shape/ Style	Type	Received
1	CRT2103221293-002-036	25L42700V1	Light Engine	N/A	Production	3/22/2021
2	CRT2103221293-002-048	PHB30W-0500-42 @ 500mA	Driver	N/A	Production	3/22/2021
3	CRT2104011108-001-001	25O4NS	Primary Optic	Narrow Spot	Production	4/1/2021
4	CRT2103221293-002-034	25T4RBVSTSK	Trim	Round Bevel	Production	3/22/2021
5	CRT2103221293-002-054	25F4RCFSK	Ring	N/A	Production	3/22/2021
6	CRT2103221293-002-023	25R4R	Reject Plate	N/A	Production	3/22/2021
7	CRT2103231335-003	25HICCP	Housing	N/A	Production	3/23/2021

**TESTED SAMPLE CONFIGURATIONS**

Config No.	Tested Model No.	Item Nos. Utilized
1	25FN4RBVSTSK2700NSCFSKV1 (500mA)	1-7

**SAMPLE PHOTOS - TESTED CONFIGURATIONS**



**SUMMARY**

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN4RBVSTSK2700NSCF5KV1 (500mA)
Product Description:	Recessed Downlight
LED Model No.:	Cree CXB1820
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	1672.2
Input Power (W) @ 120 (Vac)	20.42
Lumen Efficacy (lm/W)	81.87
Input Power Factor ( ) @ 120 (Vac)	0.990

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	25FN4RBVSTSK2700NSCF5KV1 (500mA)	NA

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

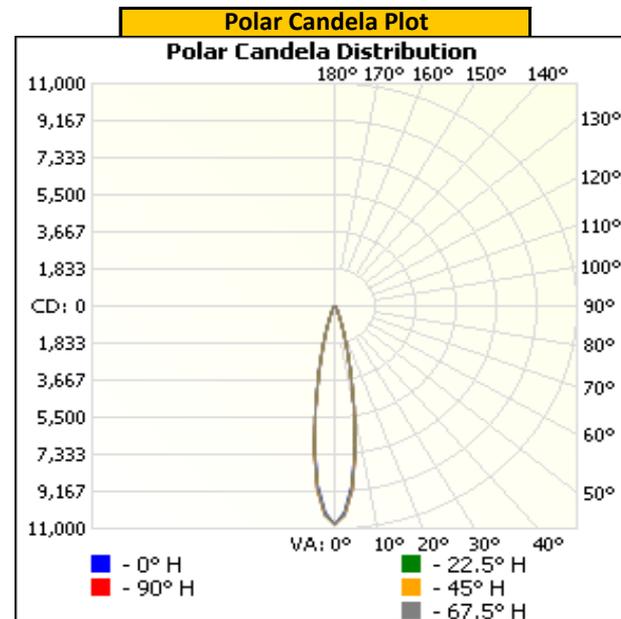
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	120.04	171.8	20.42	0.990

Light Output (lm)	Lumen Efficacy (lm/W)
1672.2	81.9

### INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	10793	10793	10793	10793	10793
5	8882	8997	9050	9082	9080
10	5001	5032	5016	5005	5000
15	2174	2131	2100	2089	2089
20	849	825	808	809	826
25	363	352	343	344	353
30	220	212	208	210	213
35	158	151	148	151	154
40	112	106	105	107	110
45	68	67	67	69	70
50	20	19	18	18	18
55	2	2	2	2	2
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



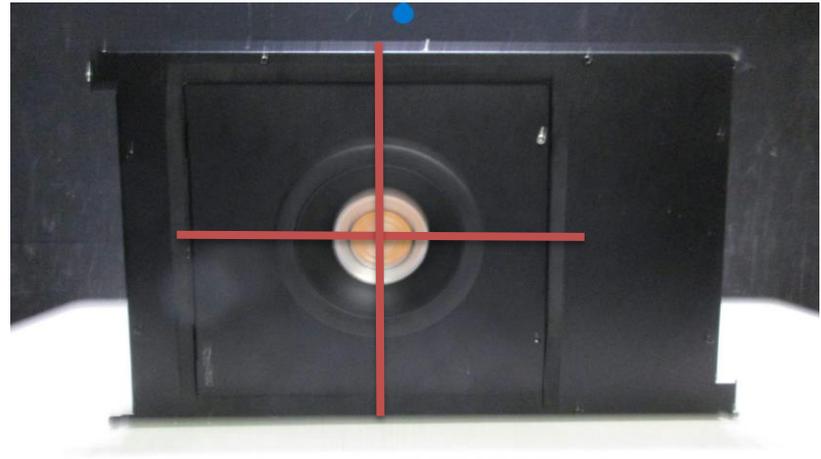
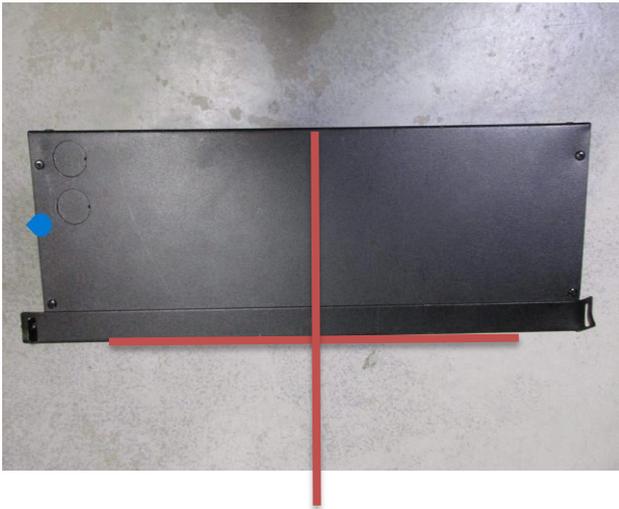
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ORIENTATION AND ALIGNMENT OF EUT

Luminous Opening		
Length (ft)	Width (ft)	Height (ft)
0.33	0.33	0.00
0°-180° H	90°-270° H	0°-180° V

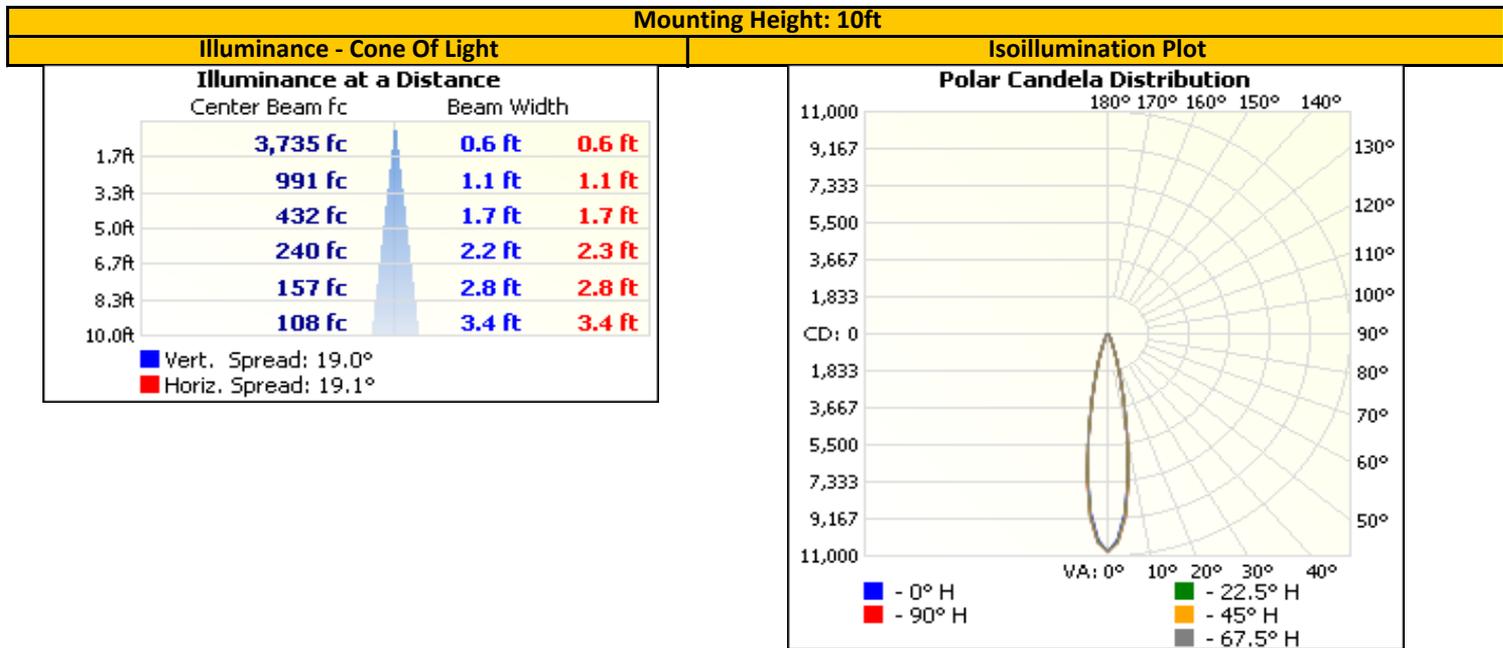
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



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**ILLUMINANCE SUMMARY**



**ZONAL LUMENS**

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	1,522.9	91.1%	0-10	722.2	43.2%
0-40	1,618.4	96.8%	10-20	619.3	37.0%
0-60	1,672.2	100.0%	20-30	181.4	10.8%
60-90	0.0	0.0%	30-40	95.5	5.7%
70-100	0.0	0.0%	40-50	49.9	3.0%
90-120	0.0	0.0%	50-60	4.0	0.2%
0-90	1,672.2	100.0%	60-70	0.0	0.0%
90-180	0.0	0.0%	70-80	0.0	0.0%
0-180	1,672.2	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
---	None	---	---	---
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