

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

**SCOPE OF WORK**

LED Performance Testing

**MODEL NUMBER**

25FN3RADSTSK2700WSCFSKV1

**PROJECT NUMBER**

G104629313

**REPORT NUMBER**

104629313CRT-046

**ISSUE DATE**

4/30/2021

**REVISED DATE**

None

**TEST DATES**

4/27/2021

**DOCUMENT CONTROL NUMBER**

RTTDS-R-AMER-Test-3407

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**REPORT NUMBER**

104629313CRT-046

**MODEL NUMBER(s)**

25FN3RADSTSK2700WSCFSKV1

**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:



Jacki Swiernik  
Staff Engineer  
Lighting Division

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**SAMPLE INFORMATION**

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Aperture	Power	Finish	Nominal CCT	Regress
3"	500mA	Satin Black	2700K	0°

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	CRT2103221293-002-009	25O3WS	Primary Optic	Wide Spot	Production	3/22/2021
4	CRT2103221293-002-037	25T3RADSTSK	Trim	Round Adjustable	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

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	25FN3RADSTSK2700WSCFSKV1	1-7

SAMPLE PHOTOS - TESTED CONFIGURATIONS



**SUMMARY**

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN3RADSTSK2700WSCFSKV1
Product Description:	Recessed Downlight
LED Model No.:	Cree CXB1512
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	1333.3
Input Power (W) @ 120 (Vac)	20.81
Lumen Efficacy (lm/W)	64.1
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**

**REPORT NO. 104629313CRT-046**

Test Configuration	Tested Model No.	Pass/Fail/NA
1	25FN3RADSTSK2700WSCFSKV1	NA

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

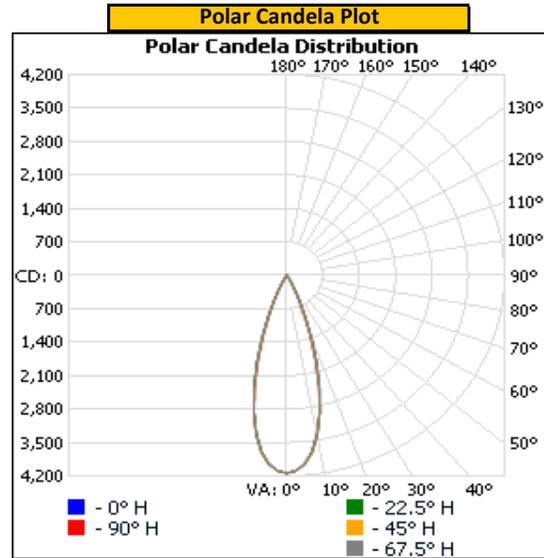
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	120.00	175.5	20.81	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
1333.3	64.1

**INTENSITY SUMMARY - CANDELA**

Angle	0	22.5	45	67.5	90
0	4138	4138	4138	4138	4138
5	3966	3957	3965	3960	3962
10	3373	3366	3387	3390	3397
15	2440	2433	2427	2412	2392
20	1410	1403	1373	1331	1297
25	603	592	570	535	515
30	194	186	179	167	161
35	60	59	55	49	46
40	19	19	18	17	17
45	3	4	3	3	2
50	0	0	0	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

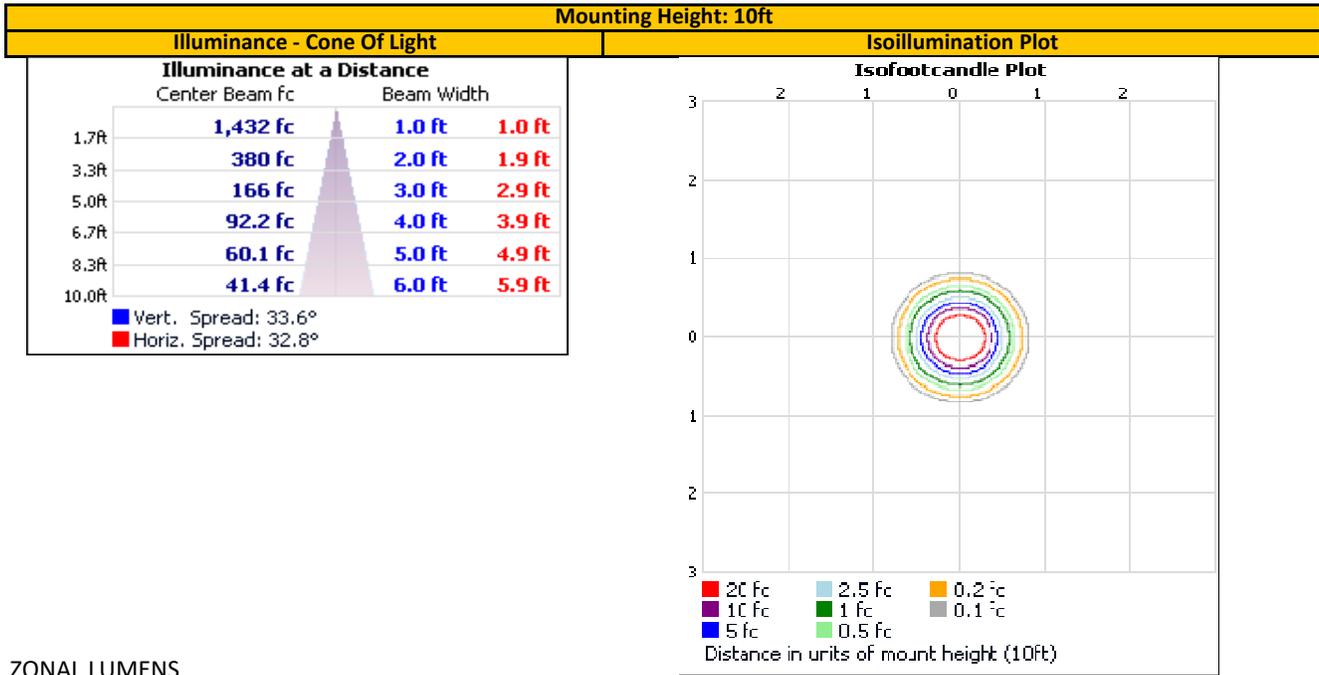
Luminous Opening		
Length (ft)	Width (ft)	Height (ft)
0.25	0.25	0.00
0°-180° H	90°-270° H	0°-180° V

Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	1,287.3	96.5%	0-10	358.8	26.9%
0-40	1,329.2	99.7%	10-20	648.5	48.6%
0-60	1,333.3	100.0%	20-30	279.9	21.0%
60-90	0.0	0.0%	30-40	41.9	3.1%
70-100	0.0	0.0%	40-50	4.1	0.3%
90-120	0.0	0.0%	50-60	0.0	0.0%
0-90	1,333.3	100.0%	60-70	0.0	0.0%
90-180	0.0	0.0%	70-80	0.0	0.0%
0-180	1,333.3	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%