

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

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

25FN3RADSTSK2700MSCFSKV1

PROJECT NUMBER

G104629313

REPORT NUMBER

104629313CRT-045

ISSUE DATE

4/30/2021

REVISED DATE

None

TEST DATES

4/30/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104629313CRT-045

MODEL NUMBER(s)

25FN3RADSTSK2700MSCFSKV1

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.

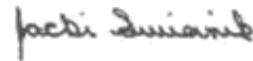
TEST STANDARDS

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

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In Charge of Testing:

Reviewer:



Kristie Ray
Team Lead, Engineering
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Jacki Swiernik
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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	CRT2103221293-002-008	25O3MS	Primary Optic	Medium 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	25FN3RADSTSK2700MSCFSKV1	1-7

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SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN3RADSTSK2700MSCFSKV1
Product Description:	Recessed Downlight
LED Model No.:	Cree CXB1512
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	1145.8
Input Power (W) @ 120 (Vac)	20.80
Lumen Efficacy (lm/W)	55.1
Input Power Factor () @ 120 (Vac)	0.988

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

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

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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	25FN3RADSTSK2700MSCFSKV1	NA

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

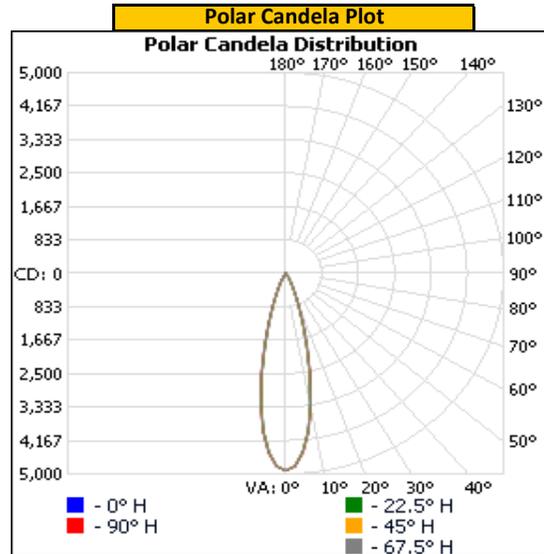
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.01	175.4	20.80	0.988

Light Output (lm)	Lumen Efficacy (lm/W)
1145.8	55.1

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	4913	4913	4913	4913	4913
5	4470	4461	4476	4476	4496
10	3276	3258	3287	3310	3332
15	1864	1841	1853	1881	1902
20	880	858	860	880	905
25	393	379	377	389	404
30	168	161	162	166	174
35	68	65	66	67	71
40	29	28	29	29	30
45	7	6	7	8	9
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

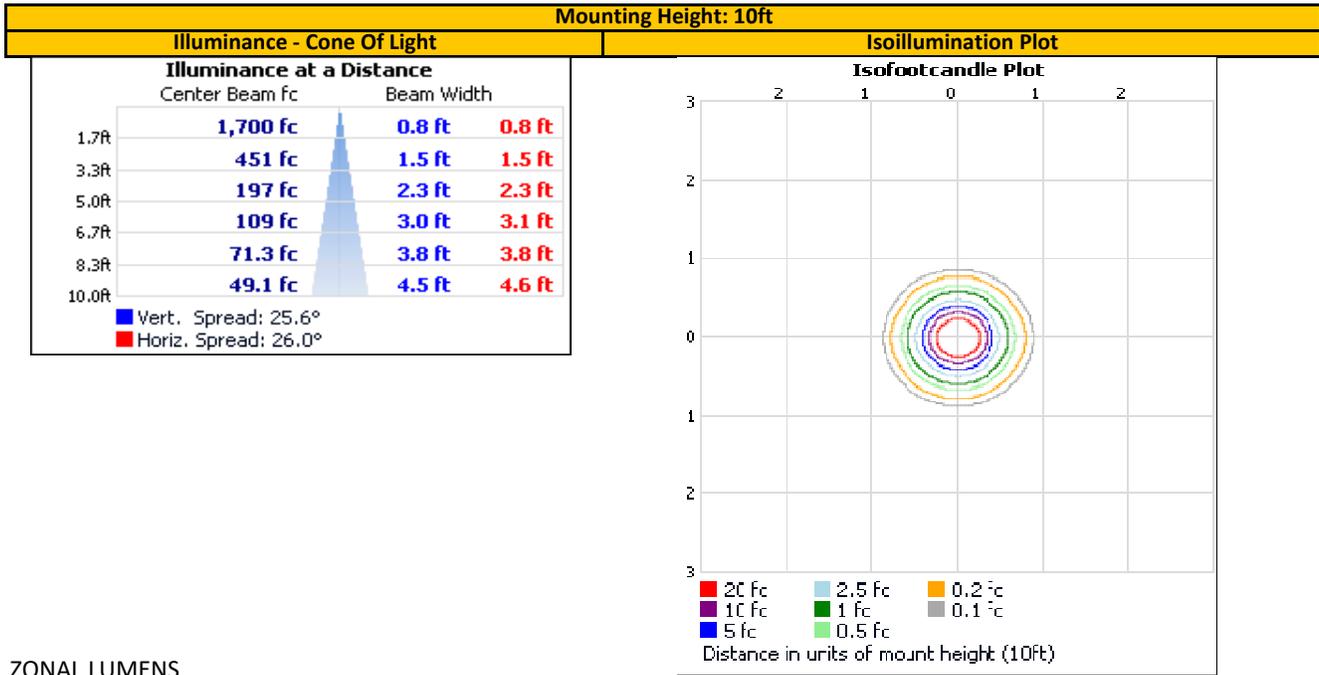
Luminous Opening		
Length (ft)	Width (ft)	Height (ft)
0.25	0.25	0.00
0°-180° H	90°-270° H	0°-180° V

Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	1,091.1	95.2%	0-10	387.0	33.8%
0-40	1,138.4	99.4%	10-20	512.9	44.8%
0-60	1,145.8	100.0%	20-30	191.1	16.7%
60-90	0.0	0.0%	30-40	47.3	4.1%
70-100	0.0	0.0%	40-50	7.4	0.6%
90-120	0.0	0.0%	50-60	0.0	0.0%
0-90	1,145.8	100.0%	60-70	0.0	0.0%
90-180	0.0	0.0%	70-80	0.0	0.0%
0-180	1,145.8	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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