

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

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

25FN3RADSTSK2700NSCFSKV1

PROJECT NUMBER

G104629313

REPORT NUMBER

104629313CRT-044

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-044

MODEL NUMBER(s)

25FN3RADSTSK2700NSCFSKV1

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

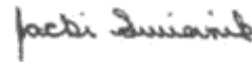
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Kristie Ray
Team Lead, Engineering
Lighting Division



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	CRT2104011108-001-004	25O3NS	Primary Optic	Narrow Spot	Production	4/1/2021
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	25FN3RADSTSK2700NSCF5KV1	1-7

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN3RADSTSK2700NSCFSKV1
Product Description:	Recessed Downlight
LED Model No.:	Cree CXB1512
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	1025.3
Input Power (W) @ 120 (Vac)	20.86
Lumen Efficacy (lm/W)	49.2
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.

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	25FN3RADSTSK2700NSCFSKV1	NA

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

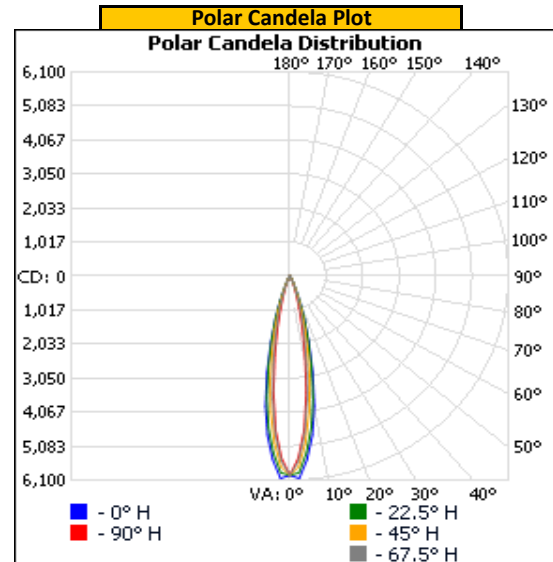
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.01	175.9	20.86	0.988

Light Output (lm)	Lumen Efficacy (lm/W)
1025.3	49.2

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	5950	5950	5950	5950	5950
5	5503	5296	4993	4722	4607
10	3933	3700	3187	2694	2416
15	2038	1968	1641	1255	1002
20	825	819	663	500	390
25	263	277	244	209	184
30	110	115	108	97	87
35	44	47	45	42	41
40	20	21	21	20	18
45	6	7	6	5	4
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



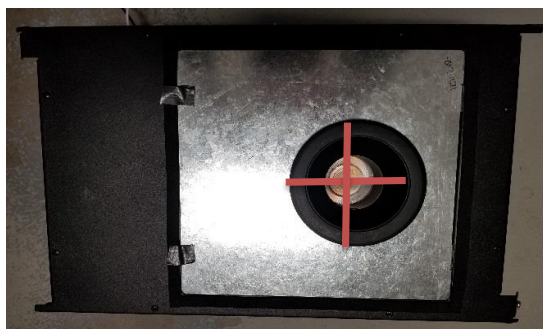
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ORIENTATION AND ALIGNMENT OF EUT

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

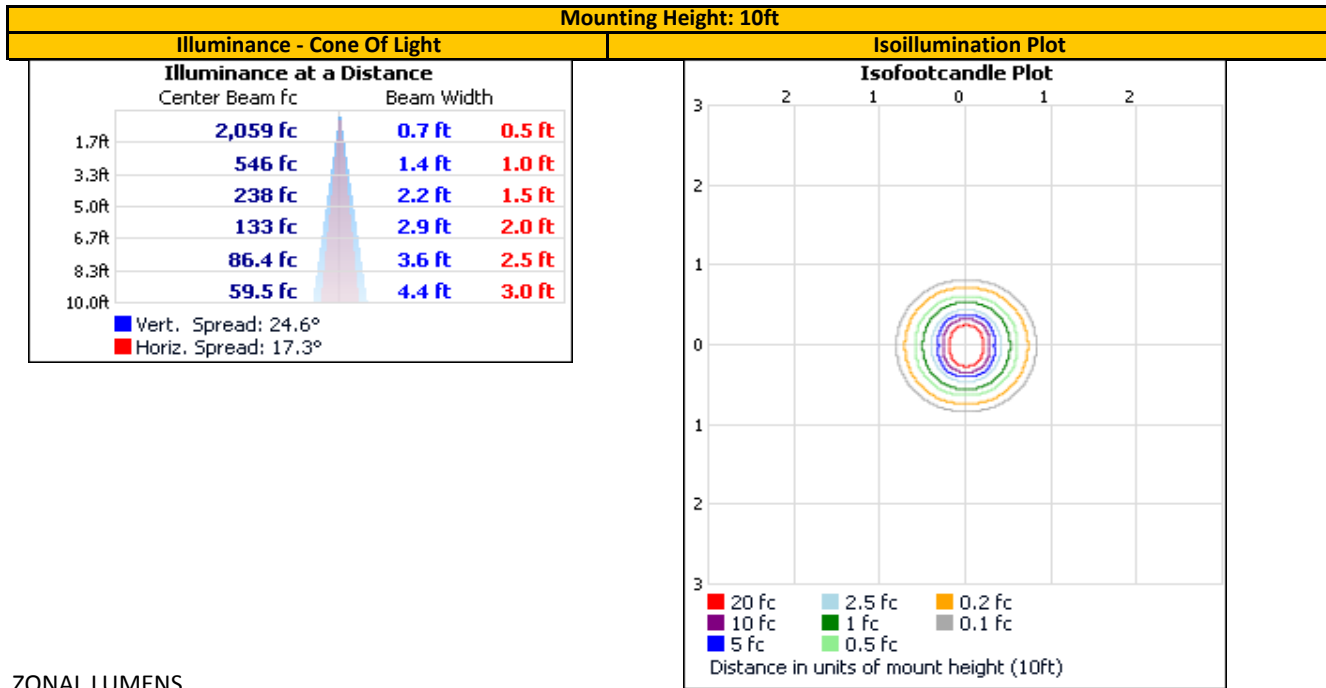
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary																																																																																																			
<table><tr><th>Zone</th><th>Lumens</th><th>Luminaire</th></tr><tr><td>0-30</td><td>989.0</td><td>96.5%</td></tr><tr><td>0-40</td><td>1,019.9</td><td>99.5%</td></tr><tr><td>0-60</td><td>1,025.3</td><td>100.0%</td></tr><tr><td>60-90</td><td>0.0</td><td>0.0%</td></tr><tr><td>70-100</td><td>0.0</td><td>0.0%</td></tr><tr><td>90-120</td><td>0.0</td><td>0.0%</td></tr><tr><td>0-90</td><td>1,025.3</td><td>100.0%</td></tr><tr><td>90-180</td><td>0.0</td><td>0.0%</td></tr><tr><td>0-180</td><td>1,025.3</td><td>100.0%</td></tr></table>			Zone	Lumens	Luminaire	0-30	989.0	96.5%	0-40	1,019.9	99.5%	0-60	1,025.3	100.0%	60-90	0.0	0.0%	70-100	0.0	0.0%	90-120	0.0	0.0%	0-90	1,025.3	100.0%	90-180	0.0	0.0%	0-180	1,025.3	100.0%	<table><tr><th>Zone</th><th>Lumens</th><th>Total</th><th>Zone</th><th>Lumens</th><th>Total</th></tr><tr><td>0-10</td><td>416.0</td><td>40.6%</td><td>90-100</td><td>0.0</td><td>0.0%</td></tr><tr><td>10-20</td><td>446.9</td><td>43.6%</td><td>100-110</td><td>0.0</td><td>0.0%</td></tr><tr><td>20-30</td><td>126.0</td><td>12.3%</td><td>110-120</td><td>0.0</td><td>0.0%</td></tr><tr><td>30-40</td><td>30.9</td><td>3.0%</td><td>120-130</td><td>0.0</td><td>0.0%</td></tr><tr><td>40-50</td><td>5.4</td><td>0.5%</td><td>130-140</td><td>0.0</td><td>0.0%</td></tr><tr><td>50-60</td><td>0.0</td><td>0.0%</td><td>140-150</td><td>0.0</td><td>0.0%</td></tr><tr><td>60-70</td><td>0.0</td><td>0.0%</td><td>150-160</td><td>0.0</td><td>0.0%</td></tr><tr><td>70-80</td><td>0.0</td><td>0.0%</td><td>160-170</td><td>0.0</td><td>0.0%</td></tr><tr><td>80-90</td><td>0.0</td><td>0.0%</td><td>170-180</td><td>0.0</td><td>0.0%</td></tr></table>							Zone	Lumens	Total	Zone	Lumens	Total	0-10	416.0	40.6%	90-100	0.0	0.0%	10-20	446.9	43.6%	100-110	0.0	0.0%	20-30	126.0	12.3%	110-120	0.0	0.0%	30-40	30.9	3.0%	120-130	0.0	0.0%	40-50	5.4	0.5%	130-140	0.0	0.0%	50-60	0.0	0.0%	140-150	0.0	0.0%	60-70	0.0	0.0%	150-160	0.0	0.0%	70-80	0.0	0.0%	160-170	0.0	0.0%	80-90	0.0	0.0%	170-180	0.0	0.0%
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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	---	VBV	VBV
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	---	VBV	VBV
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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