

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

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

25FN2RBVSTSK2700FLCFSKV1

PROJECT NUMBER

G104629313

REPORT NUMBER

104629313CRT-016

ISSUE DATE

4/30/2021

REVISED DATE

None

TEST DATES

4/17/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104629313CRT-016

MODEL NUMBER(s)

25FN2RBVSTSK2700FLCFSKV1

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

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SAMPLE INFORMATION

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Aperture	Power	Finish	Nominal CCT	Regress
2"	350mA	Satin Black	2700K	Standard

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Shape/ Style	Type	Received
1	CRT2103221293-002-030	25L22700V1	Light Engine	N/A	Production	3/22/2021
2	CRT2103221293-002-049	PHB30W-0500-42 @350mA	Driver	N/A	Production	3/22/2021
3	CRT2103221293-002-007	25O2FL	Primary Optic	Flood	Production	3/22/2021
4	CRT2103221293-002-055	25T2RBVSTSK	Trim	Round Bevel	Production	3/22/2021
5	CRT2103221293-002-051	25F2RCFSK	Ring	N/A	Production	3/22/2021
6	CRT2103221293-002-020	25R2R	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	25FN2RBVSTSK2700FLCF5KV1	1-7

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN2RBVSTSK2700FLCF SKV1
Product Description:	Recessed Downlight
LED Model No.:	Cree CMA1306
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	1170.1
Input Power (W) @ 120 (Vac)	17.06
Lumen Efficacy (lm/W)	68.6
Input Power Factor () @ 120 (Vac)	0.986

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	25FN2RBVSTSK2700FLCF5KV1	NA

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

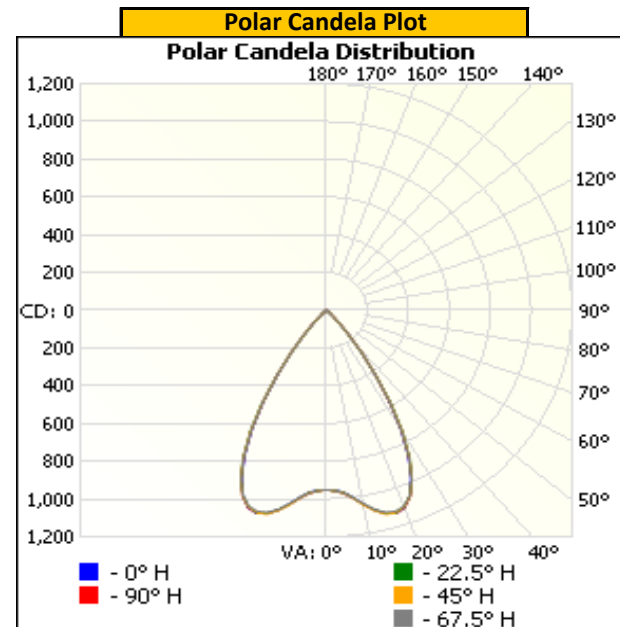
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (f)
Up	119.97	144.2	17.06	0.986

Light Output (lm)	Lumen Efficacy (lm/W)
1170.1	68.6

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	950	950	950	950	950
5	967	969	971	972	974
10	1042	1044	1047	1039	1045
15	1113	1114	1117	1107	1114
20	1112	1107	1109	1105	1114
25	980	987	988	986	986
30	728	744	739	738	733
35	415	423	422	422	422
40	172	176	177	181	182
45	49	52	55	57	58
50	13	14	15	16	16
55	2	2	3	3	3
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)
0.21	0.21	0.00
0°-180° H	90°-270° H	0°-180° V

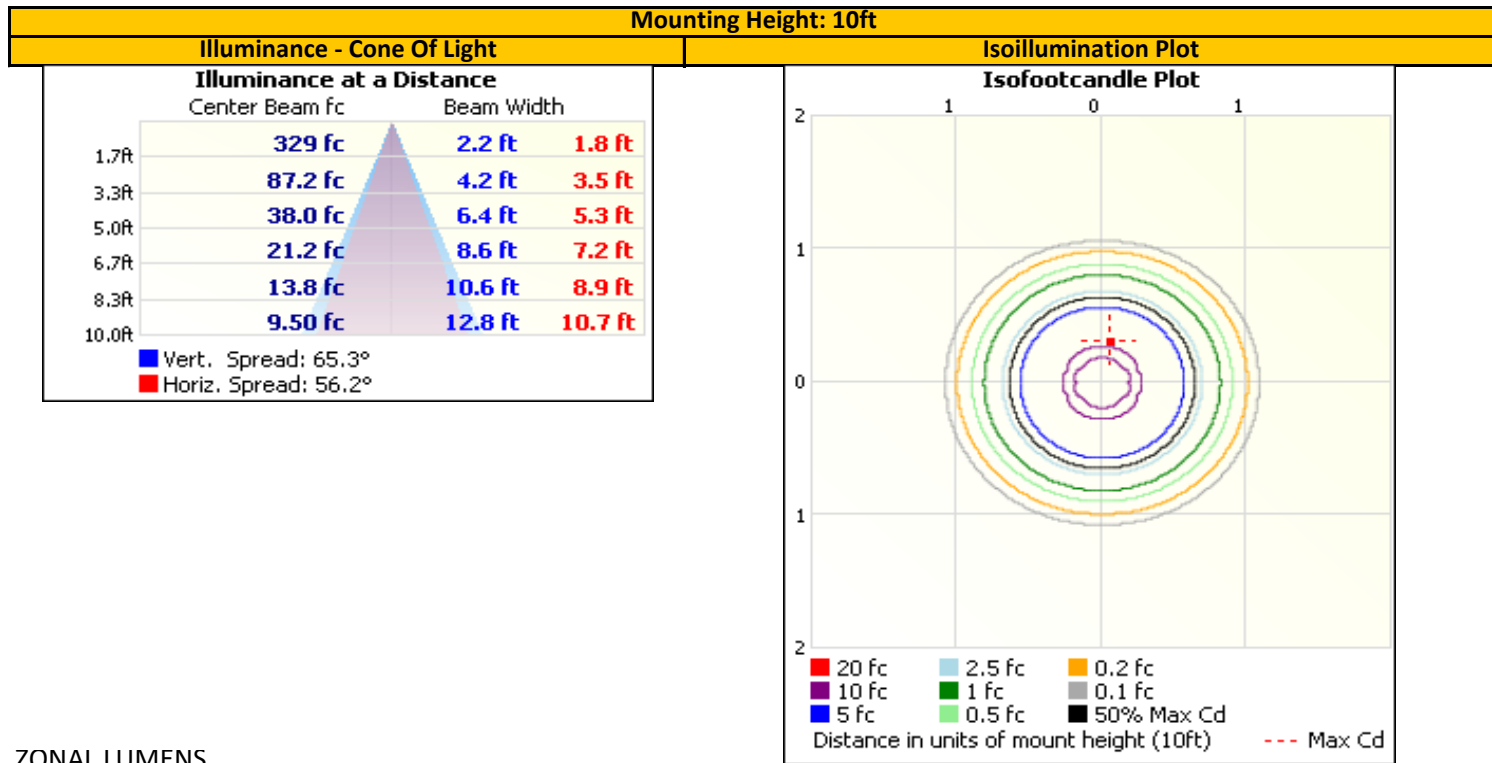
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	847.5	72.4%	0-10	95.2	8.1%
0-40	1,113.6	95.2%	10-20	312.6	26.7%
0-60	1,170.1	100.0%	20-30	439.7	37.6%
60-90	0.0	0.0%	30-40	266.1	22.7%
70-100	0.0	0.0%	40-50	52.7	4.5%
90-120	0.0	0.0%	50-60	3.8	0.3%
0-90	1,170.1	100.0%	60-70	0.0	0.0%
90-180	0.0	0.0%	70-80	0.0	0.0%
0-180	1,170.1	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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