

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

## SCOPE OF WORK

LED Performance Testing

## MODEL NUMBER

25FN4RBVSTSK2700MSCFSKV1 (700mA)

## PROJECT NUMBER

G104629313

## REPORT NUMBER

104629313CRT-087

## ISSUE DATE

4/30/2021

## REVISED DATE

None

## TEST DATES

4/29/2021

## DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

© 2017 INTERTEK



**REPORT NUMBER**

104629313CRT-087

**MODEL NUMBER(s)**

25FN4RBVSTSK2700MSCFSKV1 (700MA)

**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

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

**SAMPLE INFORMATION**

**REPORT NO. 104629313CRT-087**

Aperture	Power	Finish	Nominal CCT	Regress
4"	700mA	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	CRT2103221293-002-050	PHB30W-0700-42 @ 700mA	Driver	N/A	Production	3/22/2021
3	CRT2104011108-001-002	25O4MS	Primary Optic	Medium 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	25FN4RBVSTSK2700MSCFSKV1 (700mA)	1-7

**SAMPLE PHOTOS - TESTED CONFIGURATIONS**



## SUMMARY

REPORT NO. 104629313CRT-087

### PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	25FN4RBVSTSK2700MSCFSKV1 (700mA)
Product Description:	Recessed Downlight
LED Model No.:	Cree CXB1820
Driver Model No.:	ERP PHB30W-0500-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	2048.6
Input Power (W) @ 120 (Vac)	29.85
Lumen Efficacy (lm/W)	68.62
Input Power Factor ( ) @ 120 (Vac)	0.989

## 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-087**

Test Configuration	Tested Model No.	Pass/Fail/NA
1	25FN4RBVSTSK2700MSCFSKV1 (700mA)	NA

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

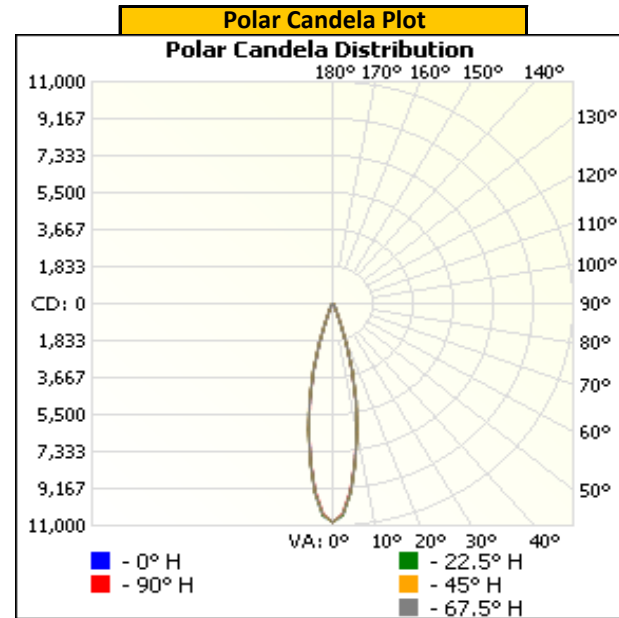
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.09	251.4	29.85	0.989

Light Output (lm)	Lumen Efficacy (lm/W)
2048.6	68.6

**INTENSITY SUMMARY - CANDELA**

Angle	0	22.5	45	67.5	90
0	10824	10824	10824	10824	10824
5	9370	9385	9372	9369	9280
10	6336	6359	6402	6366	6305
15	3422	3441	3448	3419	3366
20	1017	1072	1124	1129	1090
25	320	323	341	347	337
30	201	194	198	202	201
35	146	140	142	145	148
40	114	111	109	111	115
45	73	72	70	73	75
50	15	17	20	21	22
55	2	3	4	4	4
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



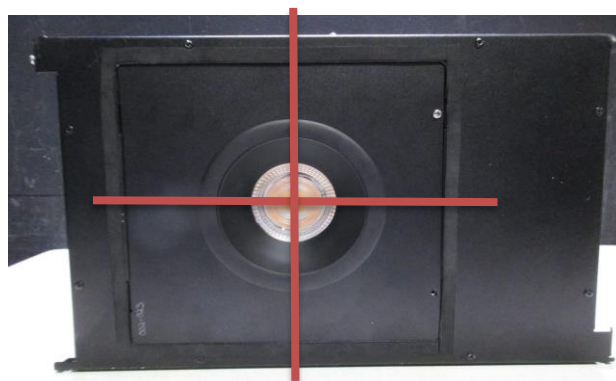
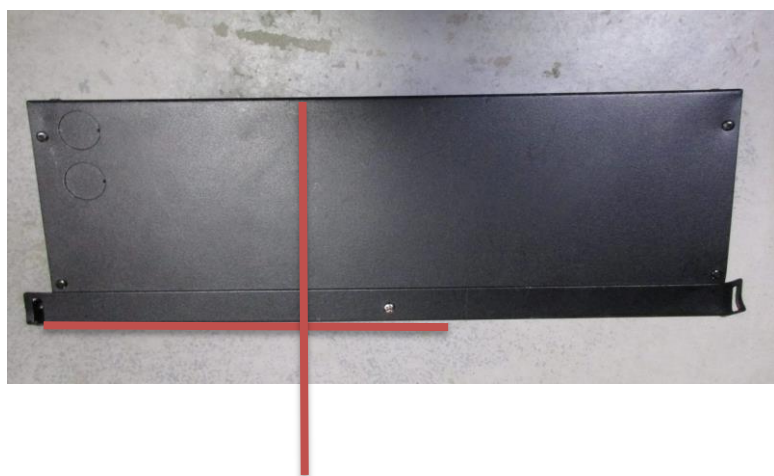
**REPORT NO. 104629313CRT-087**

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

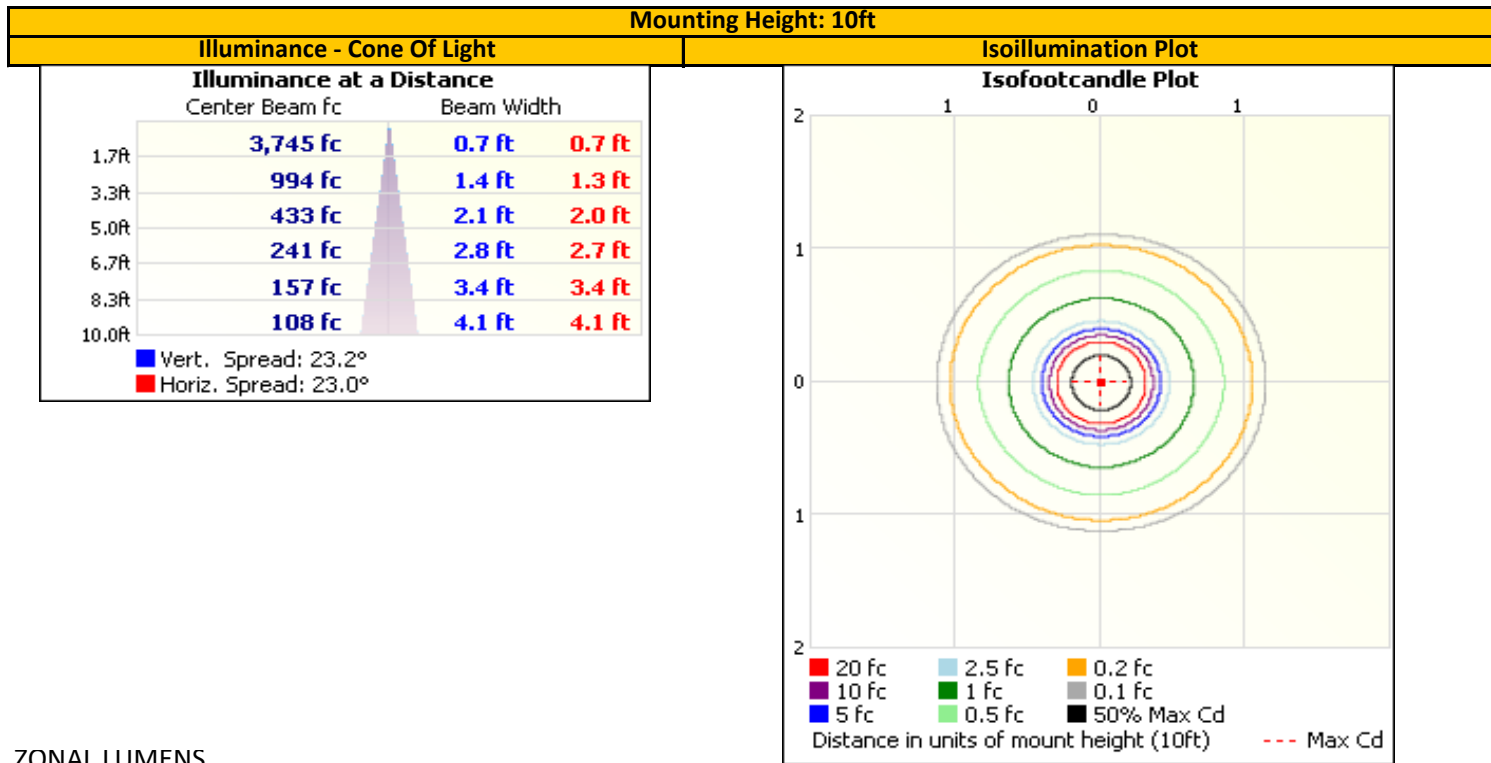
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



REPORT NO. 104629313CRT-087

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary										
Zone 1	Zone	Lumens	Luminaire	Zone 2	Zone	Lumens	Total	Zone	Lumens	Total
	0-30	1,900.0	92.7%		0-10	788.6	38.5%	90-100	0.0	0.0%
	0-40	1,991.7	97.2%		10-20	916.3	44.7%	100-110	0.0	0.0%
	0-60	2,048.6	100.0%		20-30	195.1	9.5%	110-120	0.0	0.0%
	60-90	0.0	0.0%		30-40	91.7	4.5%	120-130	0.0	0.0%
	70-100	0.0	0.0%		40-50	52.3	2.6%	130-140	0.0	0.0%
	90-120	0.0	0.0%		50-60	4.5	0.2%	140-150	0.0	0.0%
	0-90	2,048.6	100.0%		60-70	0.0	0.0%	150-160	0.0	0.0%
	90-180	0.0	0.0%		70-80	0.0	0.0%	160-170	0.0	0.0%
	0-180	2,048.6	100.0%		80-90	0.0	0.0%	170-180	0.0	0.0%

**EQUIPMENT LIST**

**REPORT NO. 104629313CRT-087**

#	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	---	---	---
---	---	---	---	---
---	---	---	---	---