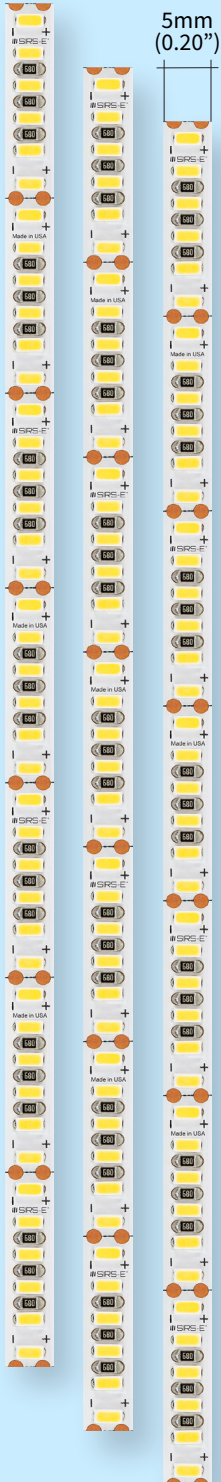


## Flexible 5mm White Plus LED Strip - 24V

Utilizing the SIRS-E® AcuVivid-Fit™ LED Tape, you can achieve **Accurate** and **Vivid** Colors that **Fit** everywhere.

**Made in the USA**, only **5mm (0.2 inches)** in width, it has a fixed **300 LED per meter** density and a variable power setting. The new SIRS-E® AcuVivid-Fit™ is the first LED tape designed and manufactured in America from the ground up for Americans to serve our daily applications better. The high-density 300 LED/m strip produces a dot-free glow that can diffuse perfectly close to any lens.



### Comprehensive CCT Selections:

Ranging from **2200K to 6500K**. We have 9 nominal color temperature values of 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 5000K, 5700K, and 6500K.

### Many Power Settings Available:

Ranging from **1 Watt per Foot (1 W/ft)** to **5 Watt per Foot (5 W/ft)**.

### Maximum LED Tape Run (Max Run):

It may go from **1 to 30 Meters (4 feet to 60 feet)** with minimal voltage drop.

### Segment Cuttable:

Every **20mm (0.79 inches)** per segment this way allows you to be closer to fit your custom length.

### Very High CRI and Extended CRI:

**R1-R8, +97 CRI, R9-R15 +97**, therefore superb objects color rendering and skin tone. (6500K only R1-R8, +91 CRI, R9-R15 +91)

### High Television Lighting

#### Consistency Index (TLCI):

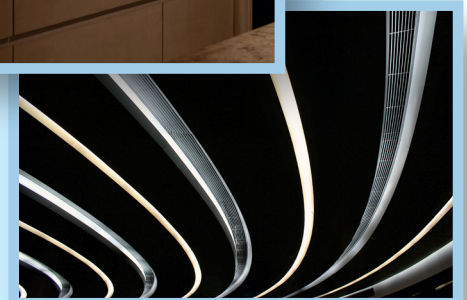
**TLCI (Qa)+98.5 of 100**. TLCI provides a way to quantify superior, electronic camera-friendly illumination sources in the same way CRI can provide a metric of an exceptional human visual system-friendly illumination.

### High Color Quality Scale(CQS):

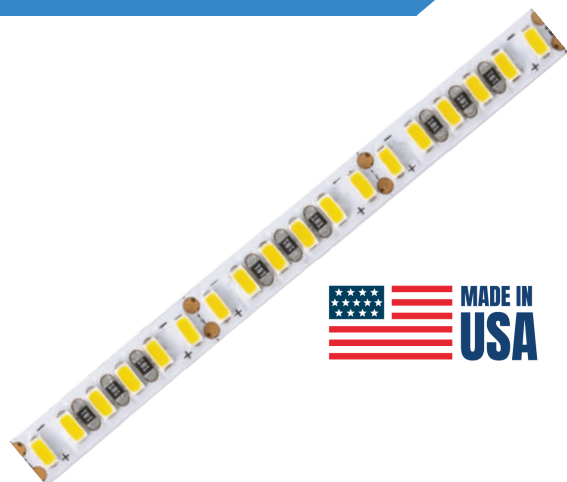
**CQS-Qa 98 of 100**. CQS is a new light source quality parameter developed by the National Institute of Standards and Technology (NIST) for the new solid-state lighting markets.



- Made in USA
- Top Quality
- 15 Year Limited Warranty



Delivering superior LED strip lighting with a proven record spanning over a decade without electrical, chromatic, or color rendering issues. SIRS-E® continues to lead the marketplace in the stability, reliability, and efficiency of linear LED lighting and lighting control systems.




Customer Name  Project Name  Part Number

## Description

The AcuVivid-Fit<sup>™</sup> White LED Strip lets you create an unlimited professional lighting design with high-quality components plus high density. The minimal 5mm board width allows the user to install nearly any area and helps reduce the cost of other accessories. The AcuVivid-Fit<sup>™</sup> have a range of temperatures from 2200K to 6500K, and power options from 1W/ft to 5W/ft.

## Product Specifications

Input Voltage	24V DC	Cuttable Segments	0.79 in (20 mm)
Limiting Control Method	CV - Constant Voltage	Segment Width	0.20 in (5 mm)
LED Chip Type	High Quality 3014 LED Chip	Luminous Flux Maintenance	75,000 hrs <sup>1</sup>
LED Density	90 LEDs/ft / 300 LEDs/m	Mounting	Non-Porous: 3M VHB Adhesive Mounting Tape
Board Type/Color	4 oz Density Copper, White PCB	Environmental	IP 40 (Indoor - Dry) / IP 68 (Damp - Wet)
Beam Angle	120°	Warranty	15 Year Limited
Operation Temperature	-20°F to 120° F	Power Consumption:	Based on Power / ft
Product Weight IP 40 / IP 68:	Based on Power / ft	Certifications:	 UL E479339



Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CIE (x,y)	Duv1	CRI	TM-30-15	
						Fidelity (Rf)	Gamut (Rg)
2200 K	419	67.0	(0.5066, 0.4080)	-0.0022	93.9	92	99
2500 K	481	76.2	(0.4708, 0.4075)	-0.0018	95.0	93	98
2700 K	494	79.0	(0.4531, 0.4064)	-0.0010	97.8	95	100
3000 K	532	85.6	(0.4255, 0.4009)	+0.0005	96.8	93	98
3500 K	520	81.8	(0.4043, 0.3827)	-0.0033	94.0	90	97
4000 K	510	82.5	(0.3778, 0.3703)	-0.0023	97.1	93	100
5000 K	529	85.9	(0.3398, 0.5502)	+0.0014	97.5	94	100
5700 K	534	85.3	(0.3262, 0.3349)	-0.0003	93.6	90	99
6500 K	559	88.8	(0.3068, 0.3190)	+0.0011	92.2	86	95

1 - After 75,000 hrs: 30% Luminous Flux loss, 10% Chromaticity change, as per L-80-15.

2 - Photometric values obtained from NVLAP test report for 5W/ft strips.

## Ordering Guide

Series	Voltage <sup>1</sup>	Control	CCT <sup>2</sup>	IP <sup>3</sup>	W/ft <sup>4</sup>
<b>ACUFIT</b>	<b>24</b>	<b>CV</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>
			22	40	01
			25	68	02
			27		03
			30		04
			35		05
			40		
			50		
			57		
			65		

## Product Country of Origin

Product Engineering & Design	USA
Assembled	USA
QC Quality Control	USA
Product Customization	USA
Technical Support	USA

<sup>1</sup> Voltage - AcuVivid-Fit™ White LED Strips 24 V.

<sup>2</sup> CCT - Correlated Color Temperature, represented by the first 2 digits of the nominal CCT.

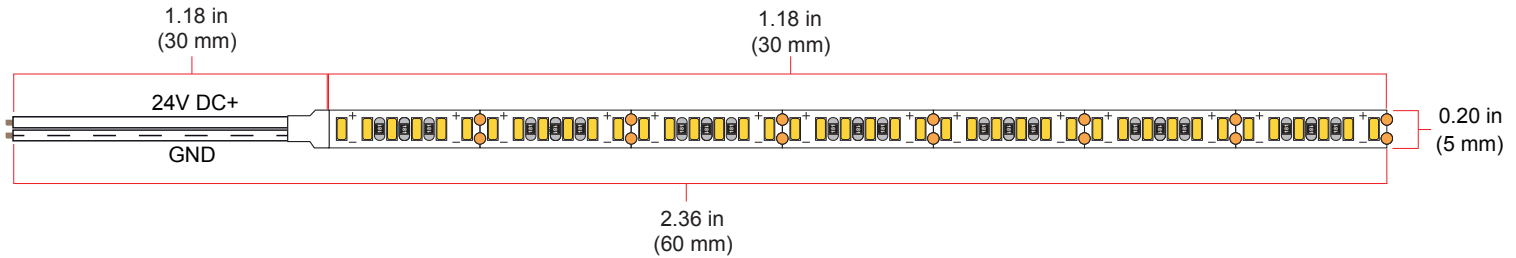
<sup>3</sup> IP - Varies on environment application, indoor or outdoor.

<sup>4</sup> W/ft - Power consumption preferred by customer (1W/ft to 5 W/ft).

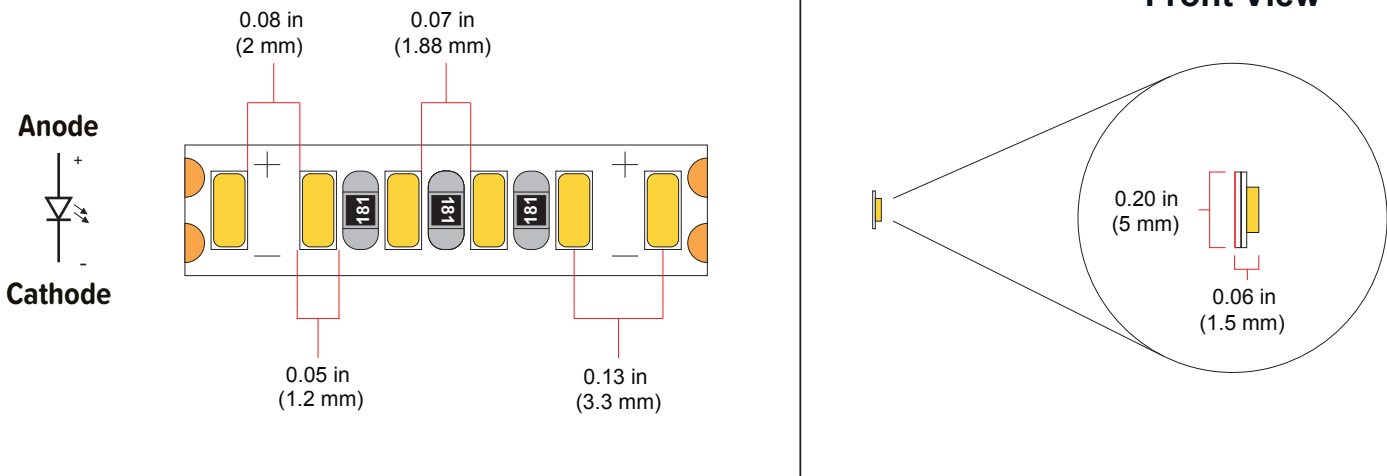
ACUFIT-24 CV	22	40	01
			02
			03
			04
			05
	25	68	01
			02
			03
			04
			05
	27	40	01
			02
03			
04			
05			
	68	01	
		02	
		03	
		04	
		05	
ACUFIT-24 CV	30	40	01
			02
			03
			04
			05
	35	68	01
			02
			03
			04
			05
	40	40	01
			02
03			
04			
05			
	68	01	
		02	
		03	
		04	
		05	
ACUFIT-24 CV	50	40	01
			02
			03
			04
			05
	57	68	01
			02
			03
			04
			05
	65	40	01
			02
03			
04			
05			
	68	01	
		02	
		03	
		04	
		05	

**Mechanical Dimensions**

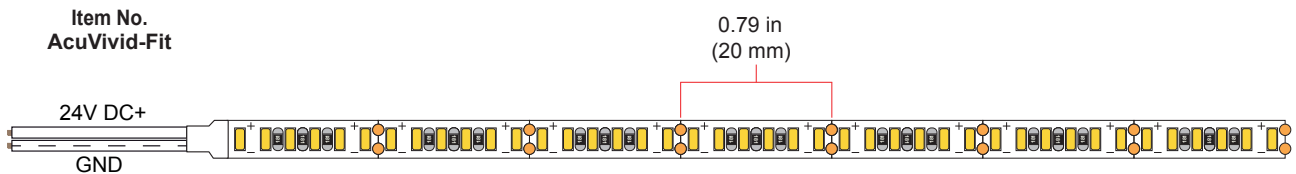
**Top View**



**Front View**



**Cuttable Segments**



The AcuVivid-Fit Strips are cuttable every 6 pixels. You need to cut at 0.79 in (20mm), represented where the solder joints are.

**Note**

- LED electrical and photometric characteristics change with the manufacturing batch/bin date. Approximately 3-Step MacAdam Ellipses between batches.
- We reserve the right to change any data without prior notice.

## Accessories Compatible

This list shows some of our most sellable accessories compatible with this product. For a complete list, please visit our website.



Meanwell 24V PSUs  
LED-PS24V-90W-UL



Magnitude Dimmable PSUs  
PS24V96W-DIM



SIRS-E® RF Controllers  
RF-MZRX-RGBW



SIRS-E® DMX Controllers  
DMX-CON3-C2



SE Aluminum Extrusion



SIRS-E® Single Color  
Wire Leads



## About Us



SIRS-E® /semiconductor • illumination • research • solutions /

In 2004, SIRS-E® began research into the use of high powered LED components to be applied in direct lighting fixtures and LED strips.

In 2005, SIRS-E® developed the RGB HPL01 – 12 watt (60 lumens per watt efficiency) RGB lighting fixture controlled via DMX using LumiLEDS, one of the first high powered LEDs eventually acquired by Phillips. Included in early research solutions, was the development and testing of many different LED strips intended to be used for direct RGB lighting and effects applications. This was the beginning of what we now know as SIRS – Electronics.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Photometric Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV22-05**

Order Number  
14709286  
Test Number  
14709286.01

Test Date

2023-03-09 - 2023-03-10

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.  
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.



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Laboratory results may not be representative of field performance  
Ballast factors have not been applied

Testing was performed in a 3-meter integrating sphere using the  $4\pi$  geometry method.

Absorption correction was employed for Sphere measurement

**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 11.75 in.  
 Luminous Width: 0.2500 in.

**Summary of Results**

**Integrating Sphere**

Luminous Flux: 419.3 Lumens  
 Efficacy: 67.03 lm/w  
 CCT: 2141 K  
 CRI (Ra): 93.9

**Distribution**

Total Luminaire Output: 423.4 Lumens  
 Luminaire Efficacy: 67.7 lm/w  
 Maximum Candela: 149 Candela

**Electrical Data at 120 VAC**

Test Temperature: 24.0 °C  
 Voltage: 120.0 VAC  
 Current: 0.1358 A  
 Power: 6.256 W  
 Power Factor: 0.384  
 Frequency: 60 Hz  
 Current THD: 237 %



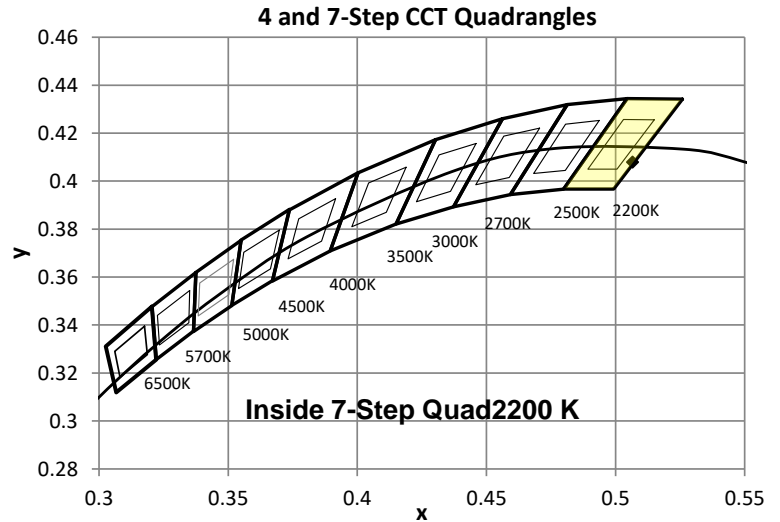
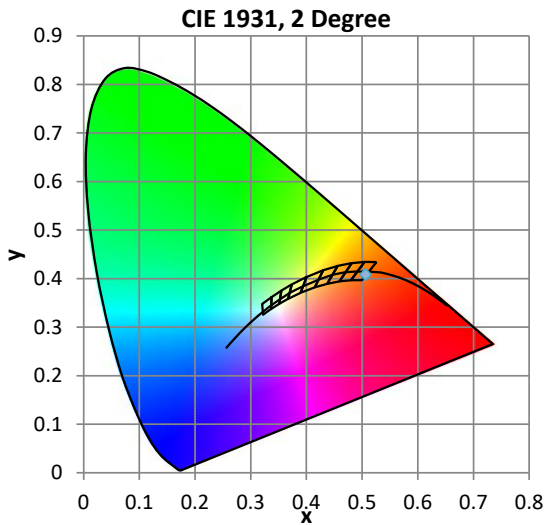
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.0 VAC	0.1358 A	6.256 W	0.384	60 Hz	237 %

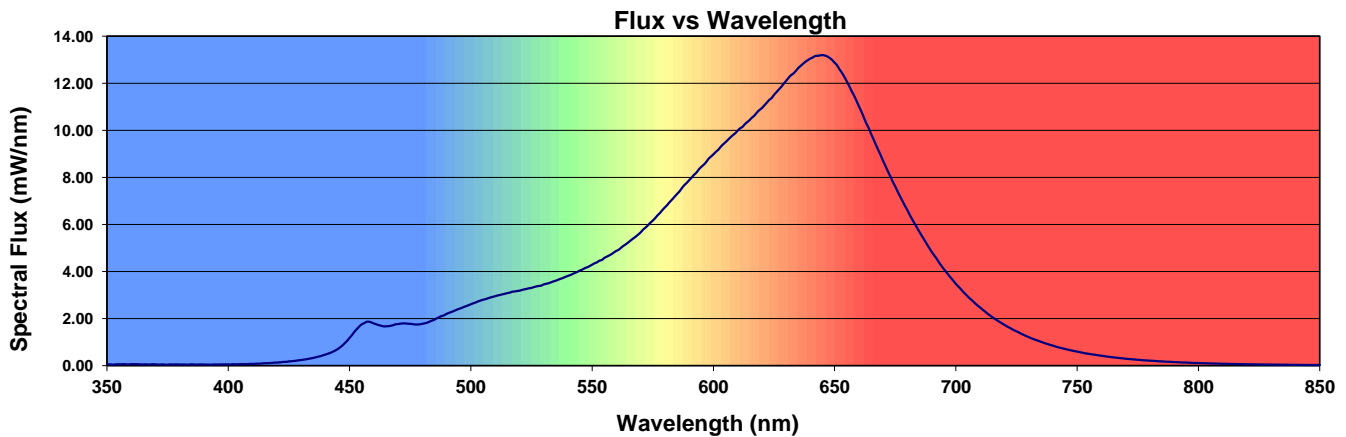
### Summary of Results

<b>Total Output:</b>	419 Lumens	<b>Chromaticity (x):</b>	0.5066
<b>Efficacy:</b>	67.0 lm/w	<b>Chromaticity (y):</b>	0.4080
<b>CCT:</b>	2141 K	<b>Chromaticity (u'):</b>	0.2944
<b>CRI (Ra):</b>	93.9	<b>Chromaticity (v'):</b>	0.5335
<b>CRI (R9):</b>	79.5	<b>TM-30 Rf:</b>	92
<b>Peak Wavelength:</b>	645 nm	<b>TM-30 Rg:</b>	99
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	-3%
<b>S/P Ratio:</b>	1.09	<b>Duv:</b>	-0.0022
<b>M/P Ratio:</b>	0.4 WELL Building Standard v2		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.9	99.3	96.1	93.4	98.7	97.2	88.7	90.3	87.5	79.5	90.9	94.3	77.6	98.2	97.4	95.2



## Distribution - Goniophotometer

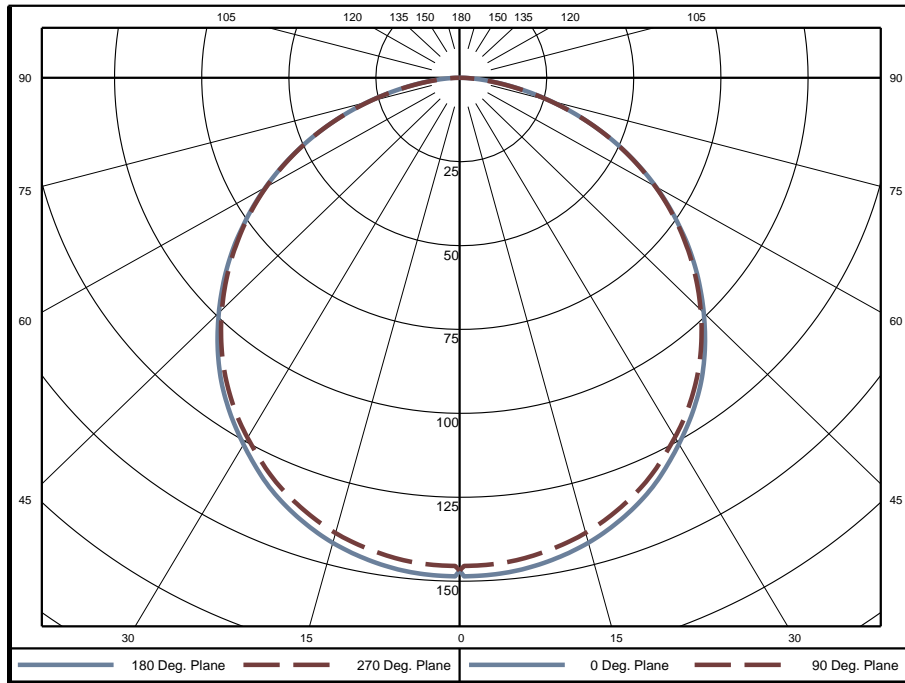
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.1208 A	6.255 W	0.432	60 Hz	206 %

### Summary of Results

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	423.4 Lumens
0-180: 1.27	<b>Luminaire Efficacy:</b>	67.7 lm/w
90-270: 1.26	<b>Maximum Candela:</b>	149 Candela
<b>Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)</b>	<b>Endwise:</b>	31.1
<b>Crosswise:</b> 31.2		

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.51	0.8%	60-65	28.94	6.8%	120-125	0	0.0%
5-10	10.41	2.5%	65-70	23.78	5.6%	125-130	0	0.0%
10-15	16.98	4.0%	70-75	17.80	4.2%	130-135	0	0.0%
15-20	23.00	5.4%	75-80	11.54	2.7%	135-140	0	0.0%
20-25	28.24	6.7%	80-85	5.84	1.4%	140-145	0	0.0%
25-30	32.49	7.7%	85-90	1.81	0.4%	145-150	0	0.0%
30-35	35.70	8.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	37.76	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	38.48	9.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	37.89	8.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	36.10	8.5%	110-115	0	0.0%	170-175	0	0.0%
55-60	33.11	7.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	188	44.4%
0-60	334	78.8%
0-90	423	100.0%
90-180	0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8
5	148.1	147.5	146.0	145.4	145.0	145.4	146.0	147.5	148.1	147.5	146.0	145.4	145.0	145.4	146.0	147.5
10	146.3	145.7	144.3	143.6	143.2	143.6	144.3	145.7	146.3	145.7	144.3	143.6	143.2	143.6	144.3	145.7
15	143.4	142.8	141.4	140.7	140.3	140.7	141.4	142.8	143.4	142.8	141.4	140.7	140.3	140.7	141.4	142.8
20	139.0	138.5	137.1	136.4	136.0	136.4	137.1	138.5	139.0	138.5	137.1	136.4	136.0	136.4	137.1	138.5
25	133.3	132.9	131.5	130.9	130.6	130.9	131.5	132.9	133.3	132.9	131.5	130.9	130.6	130.9	131.5	132.9
30	126.1	126.0	124.7	124.2	123.8	124.2	124.7	126.0	126.1	126.0	124.7	124.2	123.8	124.2	124.7	126.0
35	118.4	118.4	117.2	116.7	116.4	116.7	117.2	118.4	118.4	118.4	117.2	116.7	116.4	116.7	117.2	118.4
40	109.5	109.8	108.7	108.2	107.8	108.2	108.7	109.8	109.5	109.8	108.7	108.2	107.8	108.2	108.7	109.8
45	99.4	100.0	98.9	98.4	98.1	98.4	98.9	100.0	99.4	100.0	98.9	98.4	98.1	98.4	98.9	100.0
50	88.7	89.4	88.5	88.0	87.8	88.0	88.5	89.4	88.7	89.4	88.5	88.0	87.8	88.0	88.5	89.4
55	77.2	78.3	77.5	77.1	76.9	77.1	77.5	78.3	77.2	78.3	77.5	77.1	76.9	77.1	77.5	78.3
60	65.4	66.6	65.7	65.3	65.2	65.3	65.7	66.6	65.4	66.6	65.7	65.3	65.2	65.3	65.7	66.6
65	53.1	54.0	53.4	53.1	52.9	53.1	53.4	54.0	53.1	54.0	53.4	53.1	52.9	53.1	53.4	54.0
70	40.2	41.2	40.6	40.3	40.3	40.3	40.6	41.2	40.2	41.2	40.6	40.3	40.3	40.3	40.6	41.2
75	27.5	28.1	27.7	27.4	27.4	27.4	27.7	28.1	27.5	28.1	27.7	27.4	27.4	27.4	27.7	28.1
80	15.8	16.2	15.8	15.5	15.4	15.5	15.8	16.2	15.8	16.2	15.8	15.5	15.4	15.5	15.8	16.2
85	6.4	6.6	6.4	6.0	5.8	6.0	6.4	6.6	6.4	6.6	6.4	6.0	5.8	6.0	6.4	6.6
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

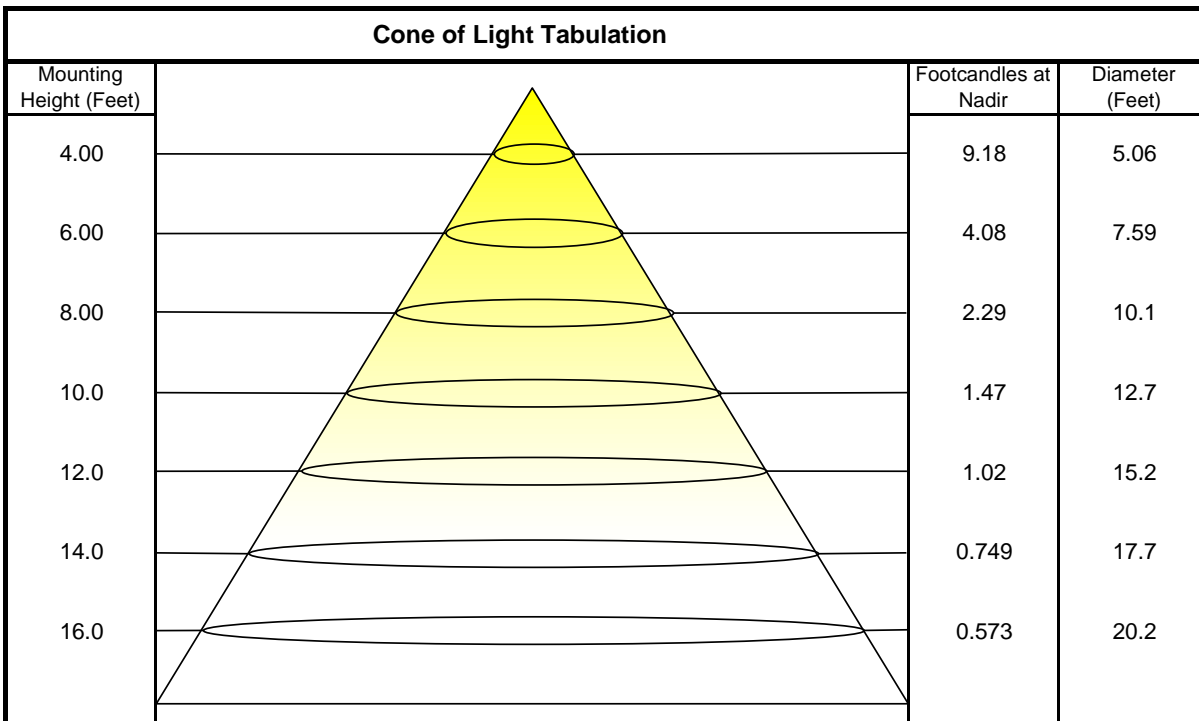
	0	45	90
0	77460	77460	77460
45	74160	73830	73230
55	71040	71280	70720
65	66230	66630	66100
75	56120	56400	55760
85	38980	38960	35130



### Coefficients of Utilization - Zonal Cavity Method

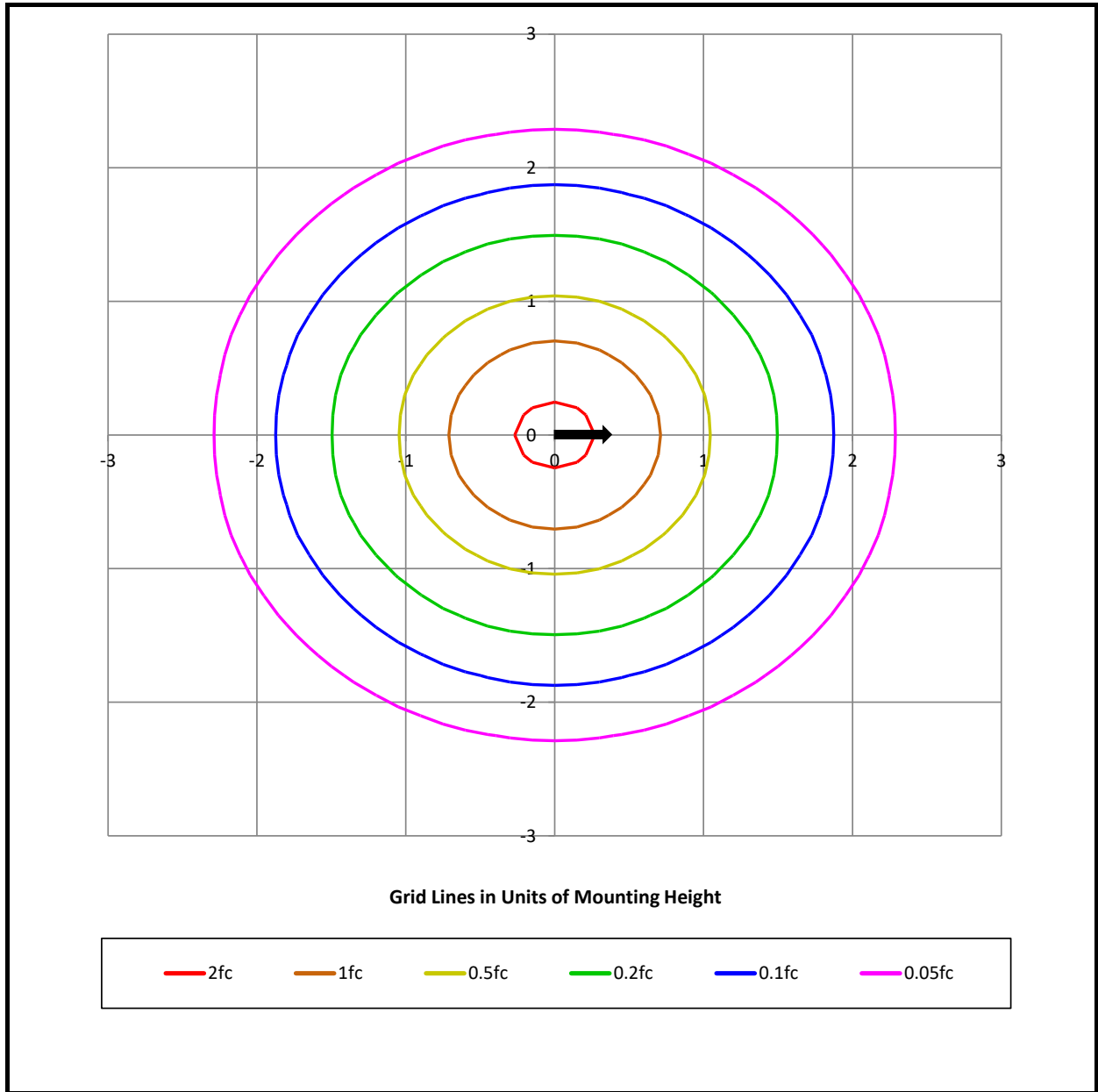
Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	146.8 Candela
Central Cone Intensity:	147 Candela
Beam Flux:	312.6 Lumens
Beam Angle (0-180):	113.3 Degrees
Beam Angle (90-270):	113.0 Degrees
Field Angle (0-180):	161.0 Degrees
Field Angle (90-270):	160.6 Degrees



### ISOFootcandle Plot

Mounting Height - 8 Feet



# ANSI/IES TM-30-18 Color Rendition Report

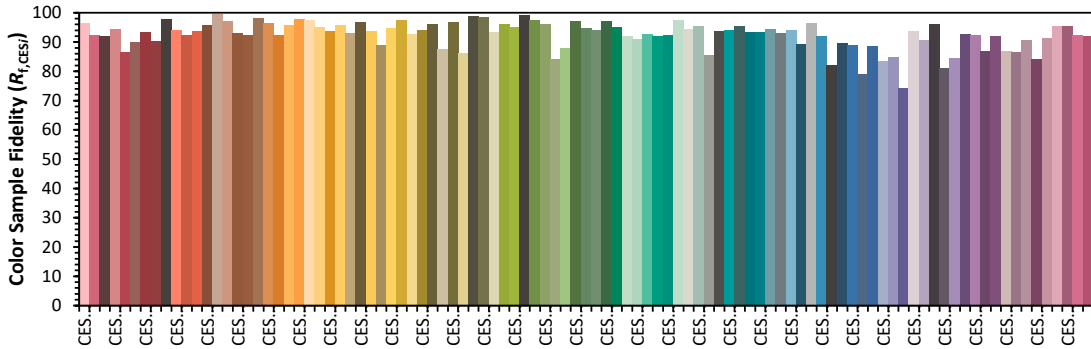
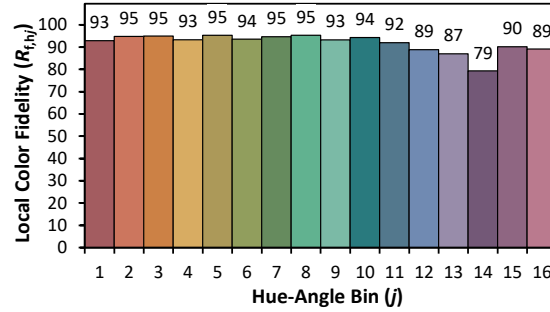
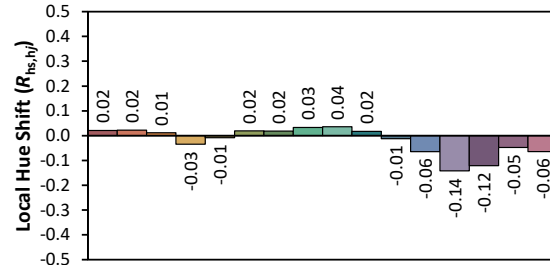
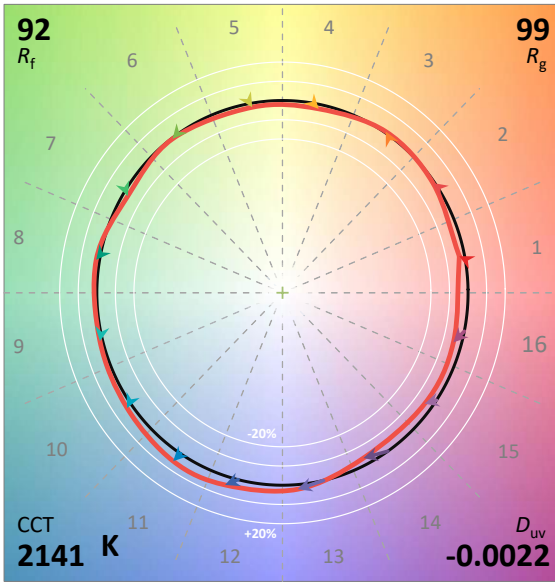
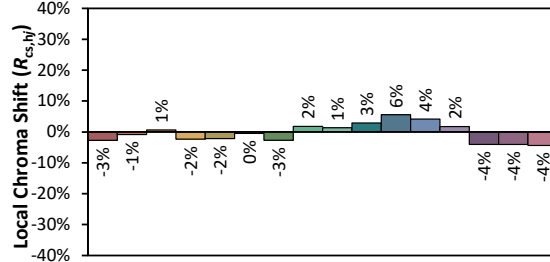
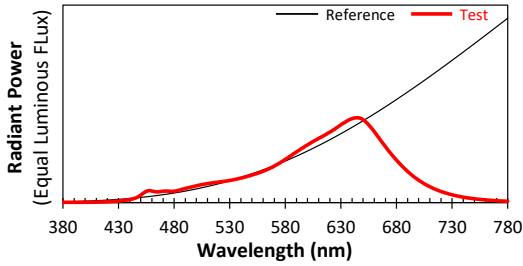
Date: 2023-03-10

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV22-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.5066  
y 0.4080  
u' 0.2944  
v' 0.5335

CIE 13.3-1995 (CRI)	
$R_a$	94
$R_g$	80

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV25-05**

Order Number  
14709286  
Test Number  
14709286.02

Test Date  
2023-03-10

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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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.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	1781 mW
Luminous Flux:	481.4 lm
Luminaire Efficacy:	76.2 lm/W
CCT:	2529 K
CRI (Ra):	95.0
Chromaticity (x):	0.4708
Chromaticity (y):	0.4075
Chromaticity (u):	0.2710
Chromaticity (v):	0.3519
Duv:	-0.0022

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.1355 A
Power:	6.314 W
Power Factor:	0.388
Frequency:	60 Hz
Current THD:	235 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.



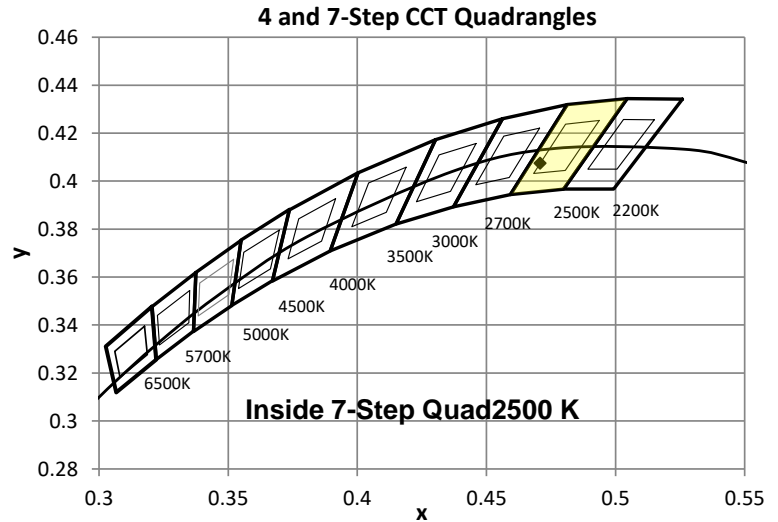
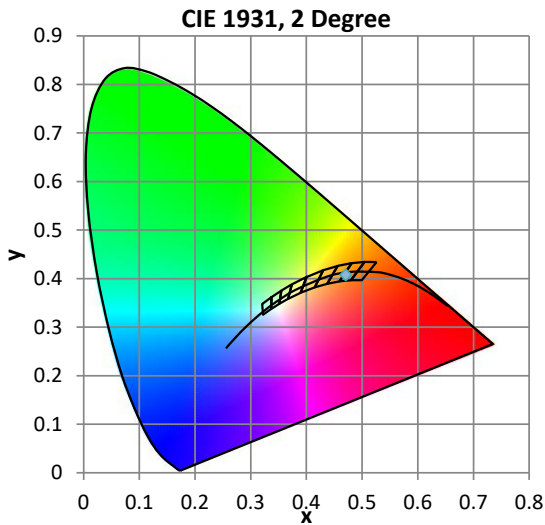
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.1355 A	6.314 W	0.388	60 Hz	235 %

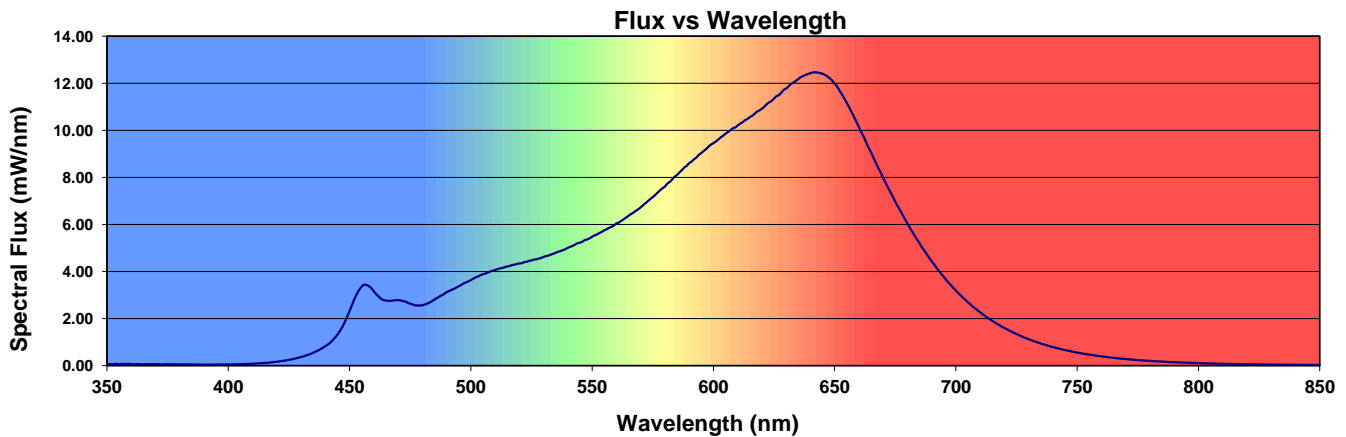
### Summary of Results

<b>Total Output:</b>	481 Lumens	<b>Chromaticity (x):</b>	0.4708
<b>Efficacy:</b>	76.2 lm/w	<b>Chromaticity (y):</b>	0.4075
<b>CCT:</b>	2529 K	<b>Chromaticity (u'):</b>	0.2710
<b>CRI (Ra):</b>	95.0	<b>Chromaticity (v'):</b>	0.5278
<b>CRI (R9):</b>	83.4	<b>TM-30 Rf:</b>	93
<b>Peak Wavelength:</b>	642 nm	<b>TM-30 Rg:</b>	98
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	-2%
<b>S/P Ratio:</b>	1.3	<b>Duv:</b>	-0.0018
<b>M/P Ratio:</b>	0.5 WELL Building Standard v2		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.0	99.1	96.7	95.0	98.1	97.6	91.4	92.2	90.1	83.4	92.7	96.3	84.0	98.2	98.1	96.6



# ANSI/IES TM-30-18 Color Rendition Report

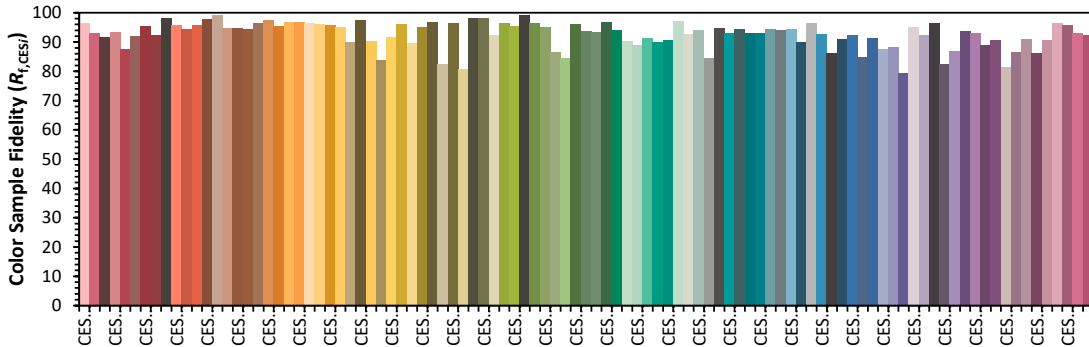
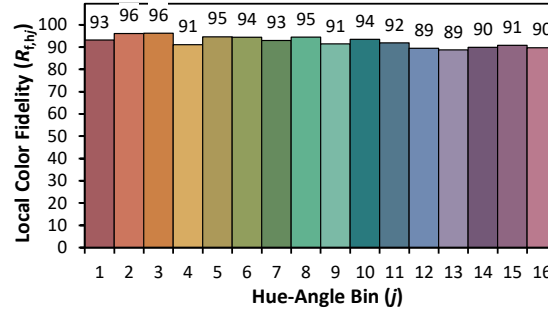
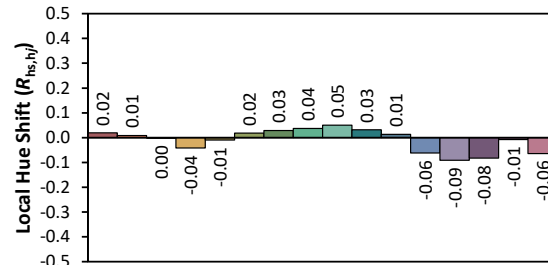
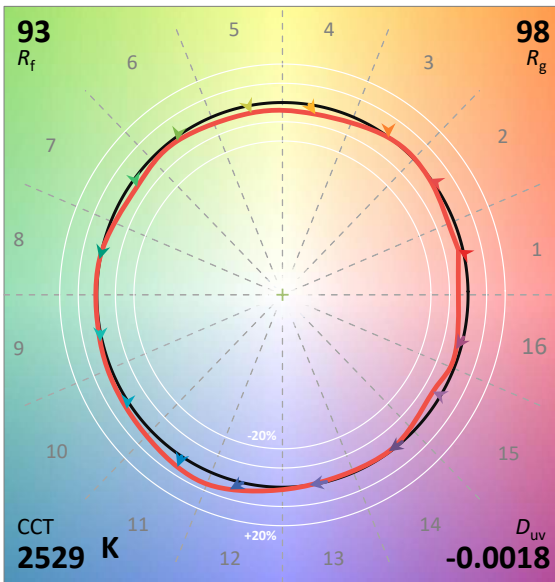
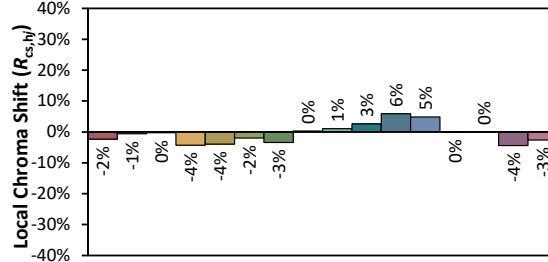
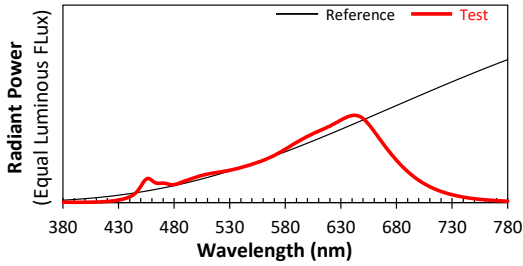
Date: 2023-03-10

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV25-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4708  
y 0.4075  
u' 0.2710  
v' 0.5278

CIE 13.3-1995 (CRI)	
R <sub>a</sub>	95
R <sub>g</sub>	83

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV27-05**

Order Number  
14709286  
Test Number  
14709286.03

Test Date

2023-03-10

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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NVLAP, NIST, or any agency of the Federal Government.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	1808 mW
Luminous Flux:	493.6 lm
Luminaire Efficacy:	79.0 lm/W
CCT:	2763 K
CRI (Ra):	97.8
Chromaticity (x):	0.4531
Chromaticity (y):	0.4064
Chromaticity (u):	0.2600
Chromaticity (v):	0.3498
Duv:	-0.0011

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.1342 A
Power:	6.247 W
Power Factor:	0.388
Frequency:	60 Hz
Current THD:	235 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.

## Color Quality - Integrating Sphere

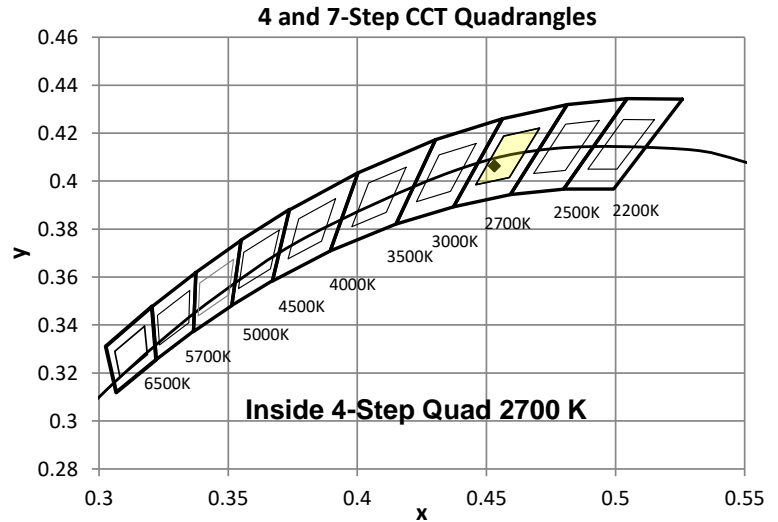
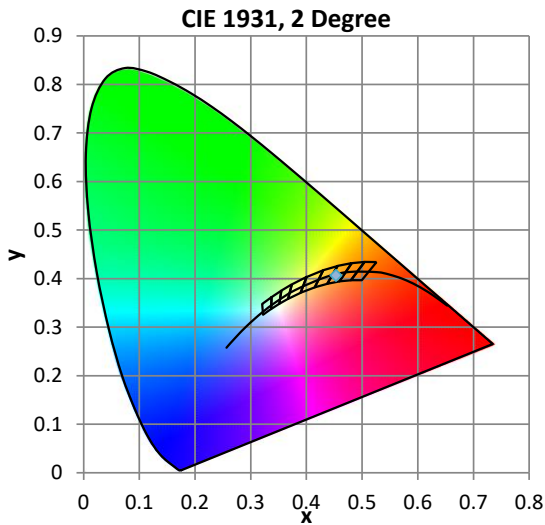
### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.1342 A	6.247 W	0.388	60 Hz	235 %

### Summary of Results

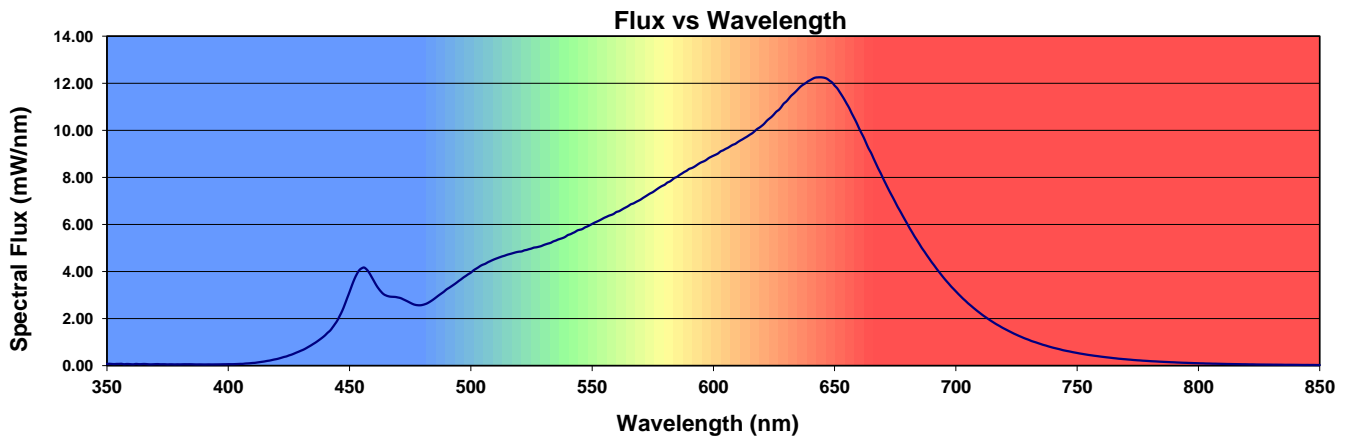
<b>Total Output:</b>	494 Lumens	<b>Chromaticity (x):</b>	0.4531
<b>Efficacy:</b>	79.0 lm/w	<b>Chromaticity (y):</b>	0.4064
<b>CCT:</b>	2763 K	<b>Chromaticity (u'):</b>	0.2600
<b>CRI (Ra):</b>	97.8	<b>Chromaticity (v'):</b>	0.5247
<b>CRI (R9):</b>	92.6	<b>TM-30 Rf:</b>	95
<b>Peak Wavelength:</b>	644 nm	<b>TM-30 Rg:</b>	100
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	-1%
<b>S/P Ratio:</b>	1.39	<b>Duv:</b>	-0.0010
<b>M/P Ratio:</b>	0.54		

WELL Building Standard v2



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	99.3	98.6	99.1	99.3	98.6	95.7	96.1	95.6	92.6	97.2	96.9	88.9	99.0	99.3	98.2



# ANSI/IES TM-30-18 Color Rendition Report

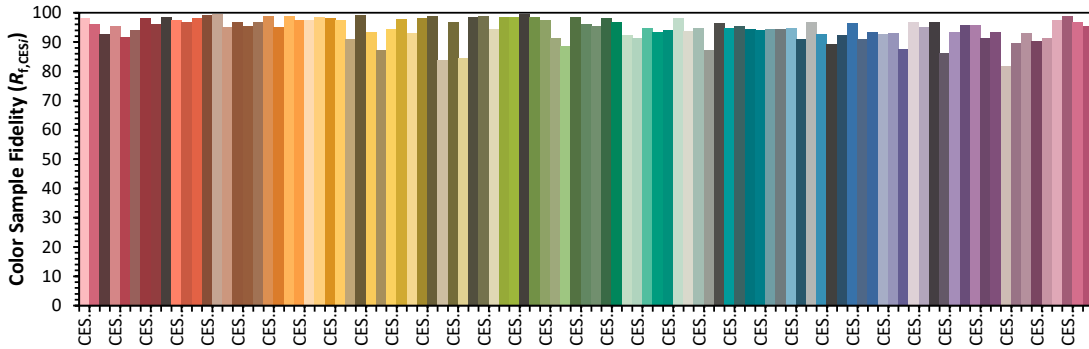
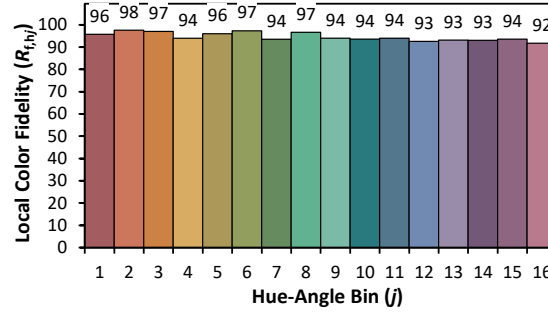
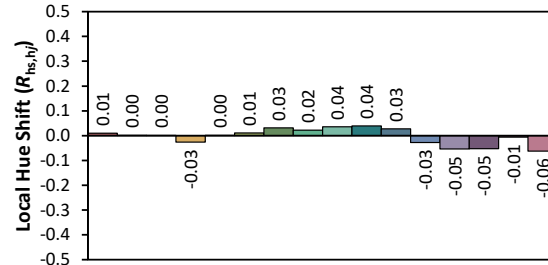
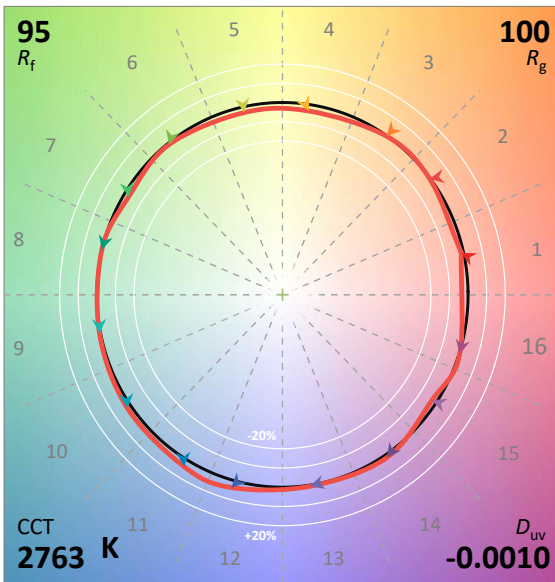
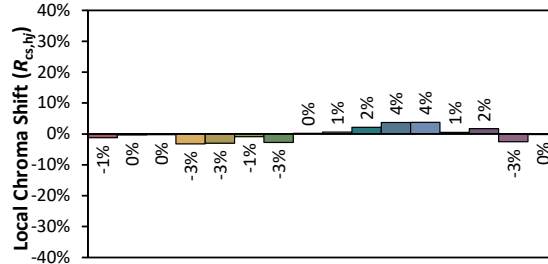
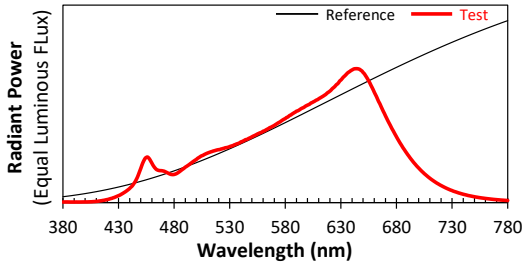
Date: 2023-03-10

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV27-05



**Notes:** This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$  0.4531  
 $y$  0.4064  
 $u'$  0.2600  
 $v'$  0.5247

CIE 13.3-1995 (CRI)	
$R_a$	98
$R_g$	93

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV30-05**

Order Number  
14709286  
Test Number  
14709286.04

Test Date  
2023-03-10

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	1851 mW
Luminous Flux:	531.9 lm
Luminaire Efficacy:	85.6 lm/W
CCT:	3175 K
CRI (Ra):	96.8
Chromaticity (x):	0.4255
Chromaticity (y):	0.4009
Chromaticity (u):	0.2445
Chromaticity (v):	0.3456
Duv:	0.0002

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.1335 A
Power:	6.217 W
Power Factor:	0.388
Frequency:	60 Hz
Current THD:	235 %

Absorption correction was employed for this measurement.



## Color Quality - Integrating Sphere

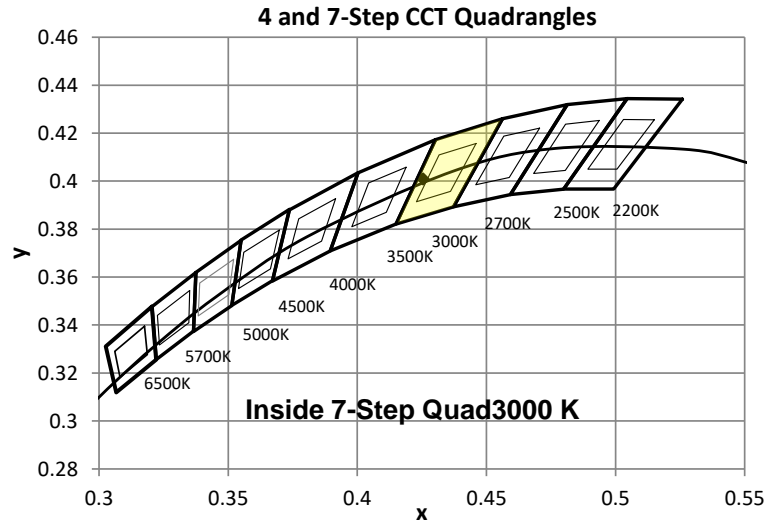
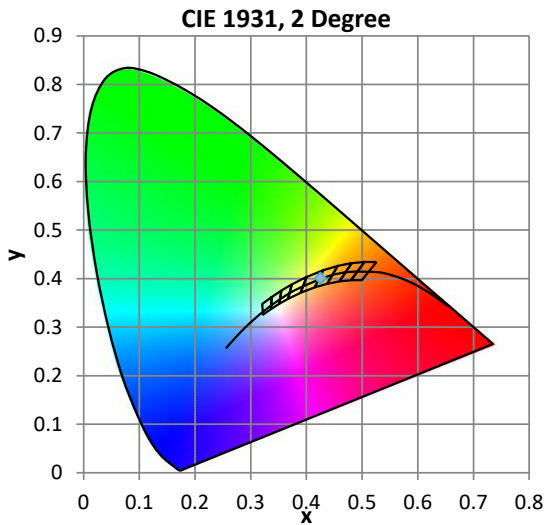
### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.1335 A	6.217 W	0.388	60 Hz	235 %

### Summary of Results

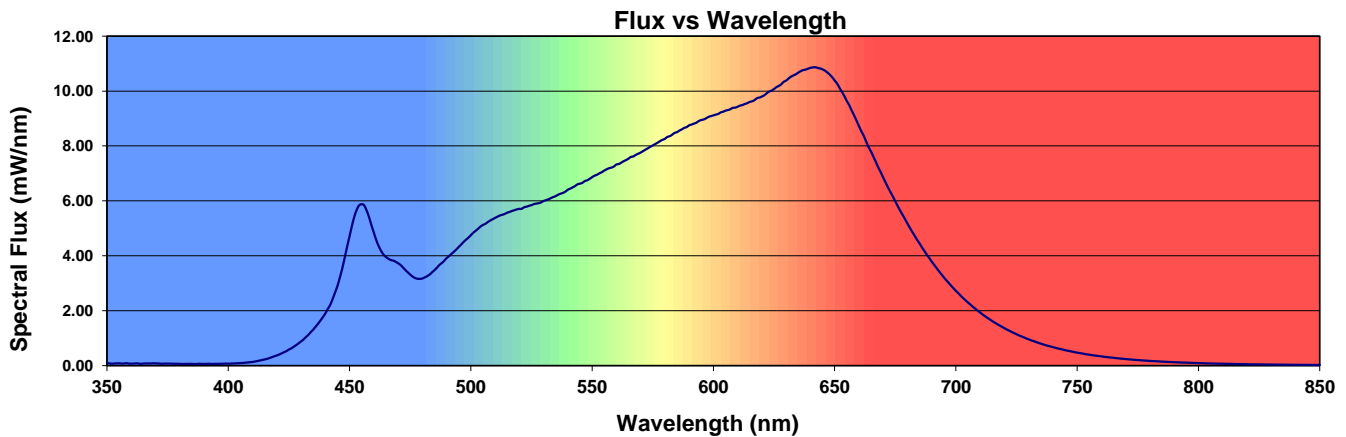
<b>Total Output:</b>	532 Lumens	<b>Chromaticity (x):</b>	0.4255
<b>Efficacy:</b>	85.6 lm/w	<b>Chromaticity (y):</b>	0.4009
<b>CCT:</b>	3175 K	<b>Chromaticity (u'):</b>	0.2445
<b>CRI (Ra):</b>	96.8	<b>Chromaticity (v'):</b>	0.5184
<b>CRI (R9):</b>	82.7	<b>TM-30 Rf:</b>	93
<b>Peak Wavelength:</b>	642 nm	<b>TM-30 Rg:</b>	98
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	-2%
<b>S/P Ratio:</b>	1.54	<b>Duv:</b>	0.0005
<b>M/P Ratio:</b>	0.61		

WELL Building Standard v2



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.8	97.1	99.2	99.7	96.4	96.8	97.8	95.4	91.7	82.7	97.7	98.3	84.7	97.9	99.3	94.9



# ANSI/IES TM-30-18 Color Rendition Report

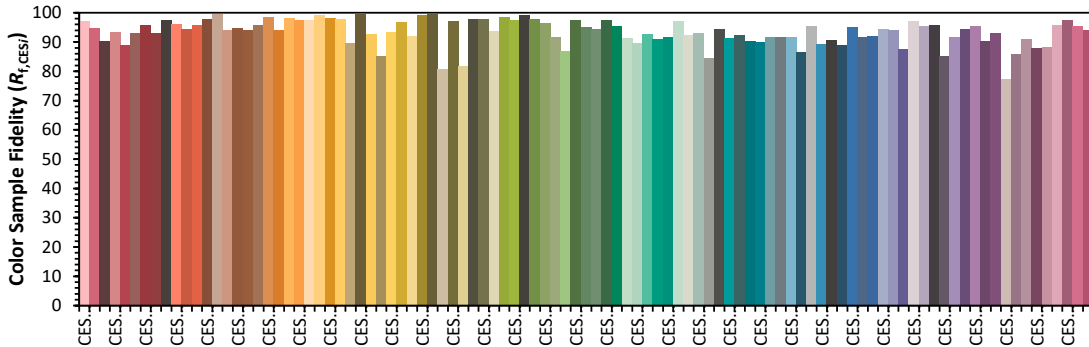
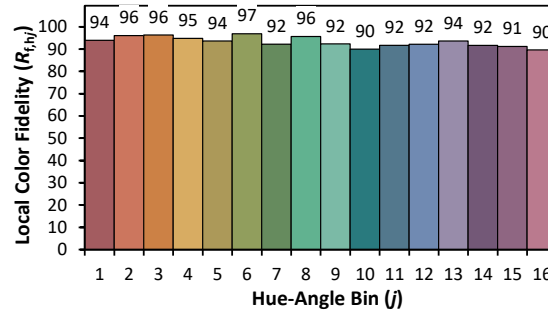
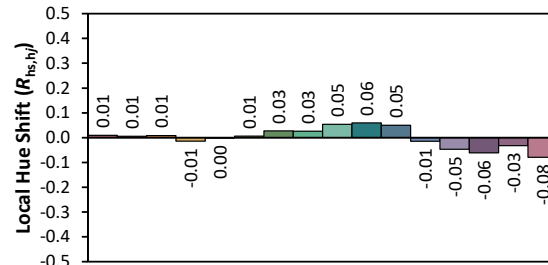
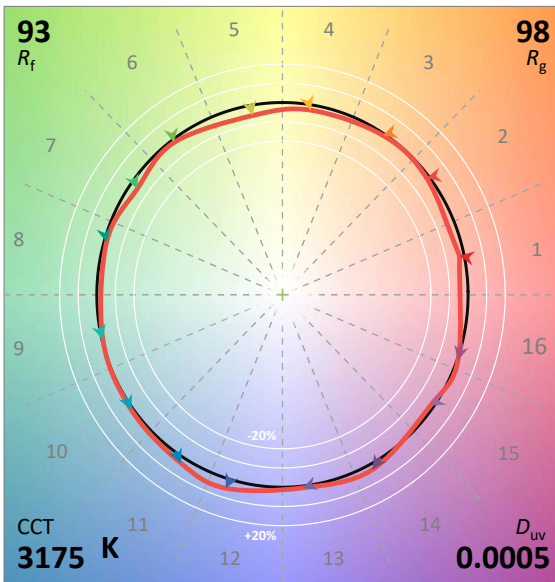
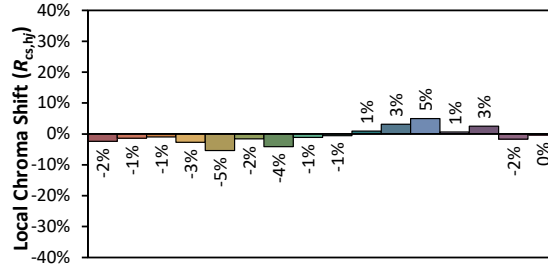
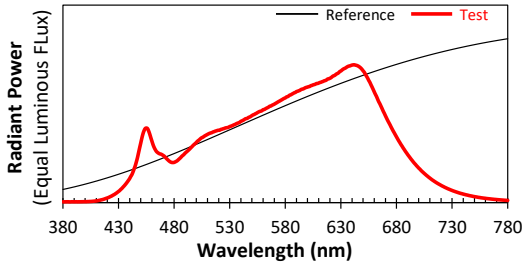
Date: 2023-03-10

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV30-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4255  
y 0.4009  
u' 0.2445  
v' 0.5184

CIE 13.3-1995 (CRI)
$R_a$ 97
$R_g$ 83

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV35-05**

Order Number  
14709286  
Test Number  
14709286.05

Test Date  
2023-03-10

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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NVLAP, NIST, or any agency of the Federal Government.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	1894 mW
Luminous Flux:	520.2 lm
Luminaire Efficacy:	81.8 lm/W
CCT:	3453 K
CRI (Ra):	94.0
Chromaticity (x):	0.4043
Chromaticity (y):	0.3827
Chromaticity (u):	0.2384
Chromaticity (v):	0.3385
Duv:	-0.0036

**Test Conditions**

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.1363 A
Power:	6.358 W
Power Factor:	0.389
Frequency:	60 Hz
Current THD:	234 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.

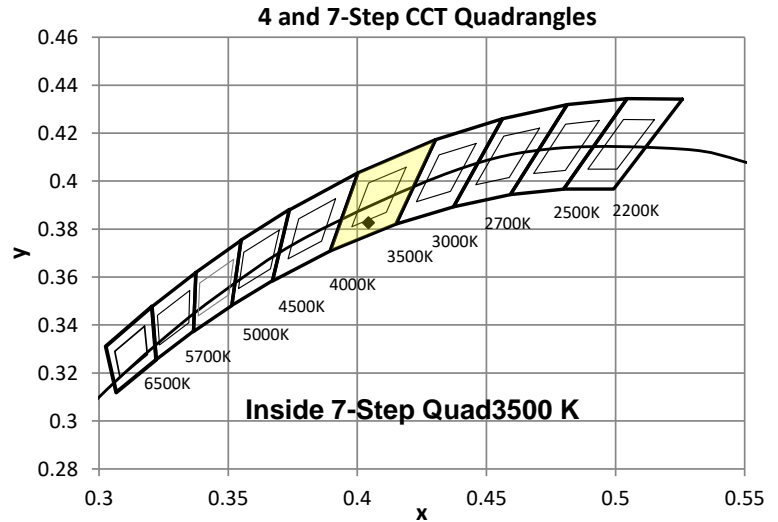
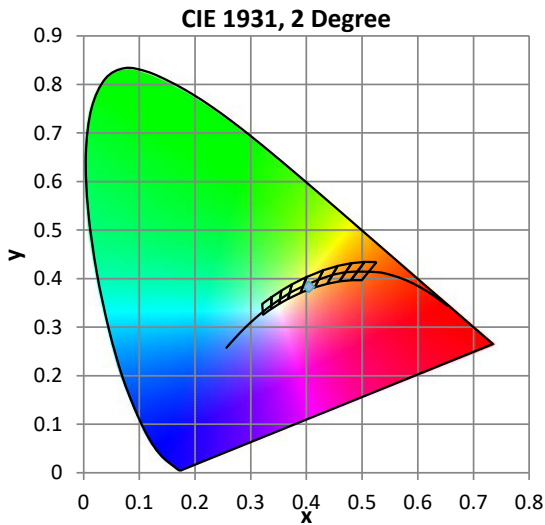
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1363 A	6.358 W	0.389	60 Hz	234 %

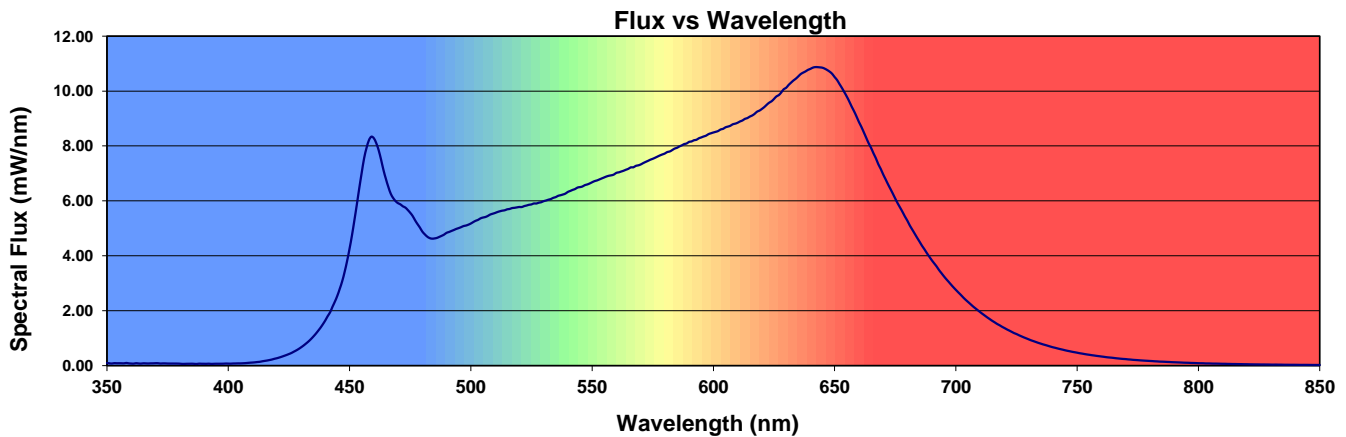
### Summary of Results

<b>Total Output:</b>	520 Lumens	<b>Chromaticity (x):</b>	0.4043
<b>Efficacy:</b>	81.8 lm/w	<b>Chromaticity (y):</b>	0.3827
<b>CCT:</b>	3453 K	<b>Chromaticity (u'):</b>	0.2384
<b>CRI (Ra):</b>	94.0	<b>Chromaticity (v'):</b>	0.5077
<b>CRI (R9):</b>	91.7	<b>TM-30 Rf:</b>	90
<b>Peak Wavelength:</b>	643 nm	<b>TM-30 Rg:</b>	97
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	0%
<b>S/P Ratio:</b>	1.75	<b>Duv:</b>	-0.0033
<b>M/P Ratio:</b>	0.73 WELL Building Standard v2		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.0	95.1	93.9	95.2	95.1	94.1	90.8	93.1	95.1	91.7	87.9	96.9	78.4	94.2	98.0	94.1



# ANSI/IES TM-30-18 Color Rendition Report

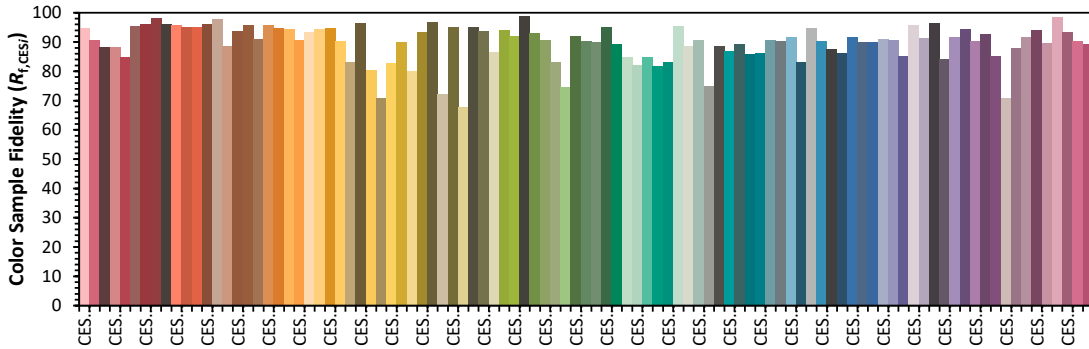
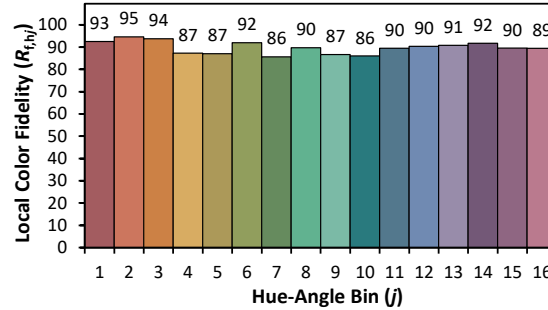
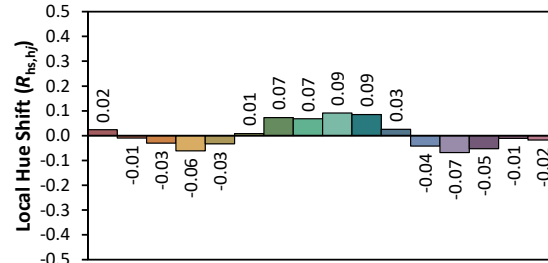
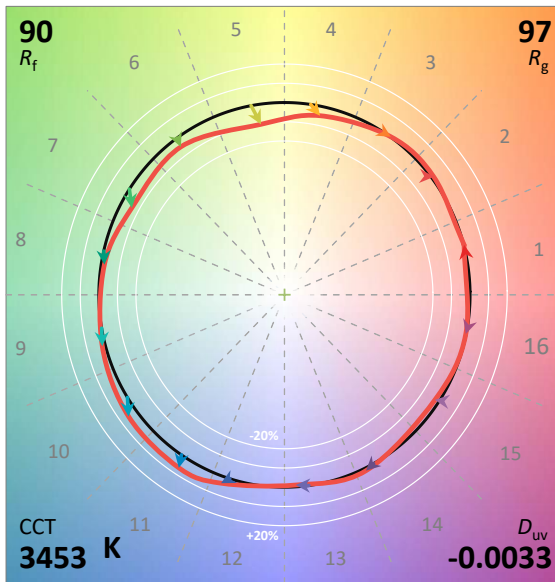
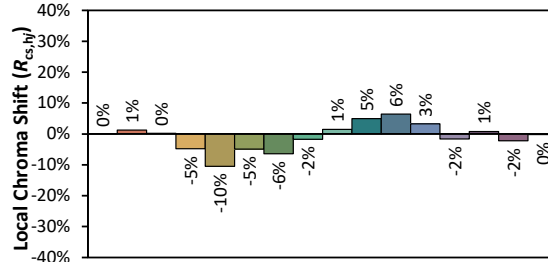
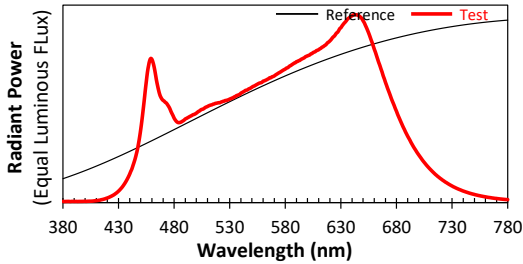
Date: 2023-03-10

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV35-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x **0.4043**  
 y **0.3827**  
 u' **0.2384**  
 v' **0.5077**

CIE 13.3-1995  
 (CRI)  
 Ra 94  
 R9 92

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV40-05**

Order Number  
14709286  
Test Number  
14709286.06

Test Date

2023-03-10

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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NVLAP, NIST, or any agency of the Federal Government.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	1832 mW
Luminous Flux:	510.2 lm
Luminaire Efficacy:	82.5 lm/W
CCT:	4022 K
CRI (Ra):	97.1
Chromaticity (x):	0.3778
Chromaticity (y):	0.3703
Chromaticity (u):	0.2260
Chromaticity (v):	0.3322
Duv:	-0.0030

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.1330 A
Power:	6.186 W
Power Factor:	0.387
Frequency:	60 Hz
Current THD:	235 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.



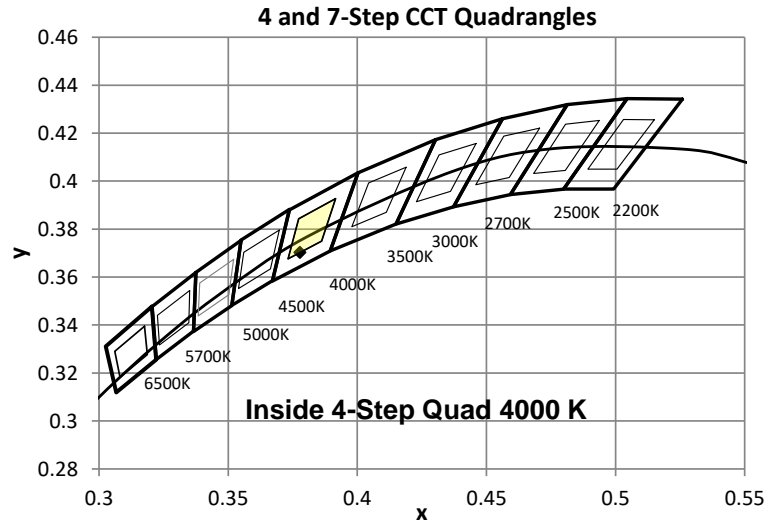
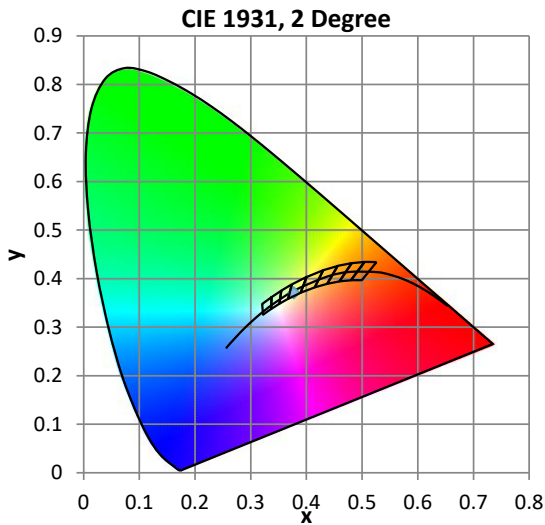
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.1330 A	6.186 W	0.387	60 Hz	235 %

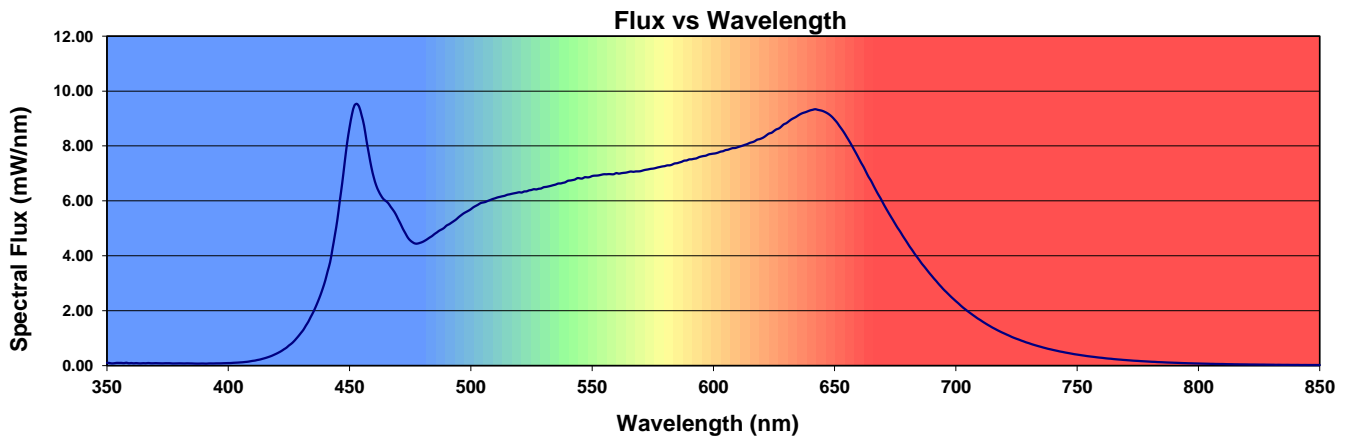
### Summary of Results

<b>Total Output:</b>	510 Lumens	<b>Chromaticity (x):</b>	0.3778
<b>Efficacy:</b>	82.5 lm/w	<b>Chromaticity (y):</b>	0.3703
<b>CCT:</b>	4022 K	<b>Chromaticity (u'):</b>	0.2260
<b>CRI (Ra):</b>	97.1	<b>Chromaticity (v'):</b>	0.4983
<b>CRI (R9):</b>	92.2	<b>TM-30 Rf:</b>	93
<b>Peak Wavelength:</b>	453 nm	<b>TM-30 Rg:</b>	100
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	0%
<b>S/P Ratio:</b>	1.9	<b>Duv:</b>	-0.0023
<b>M/P Ratio:</b>	0.8 WELL Building Standard v2		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.1	96.5	97.1	99.4	97.9	96.6	95.4	97.0	96.7	92.2	95.1	97.0	80.7	96.3	99.0	95.1



# ANSI/IES TM-30-18 Color Rendition Report

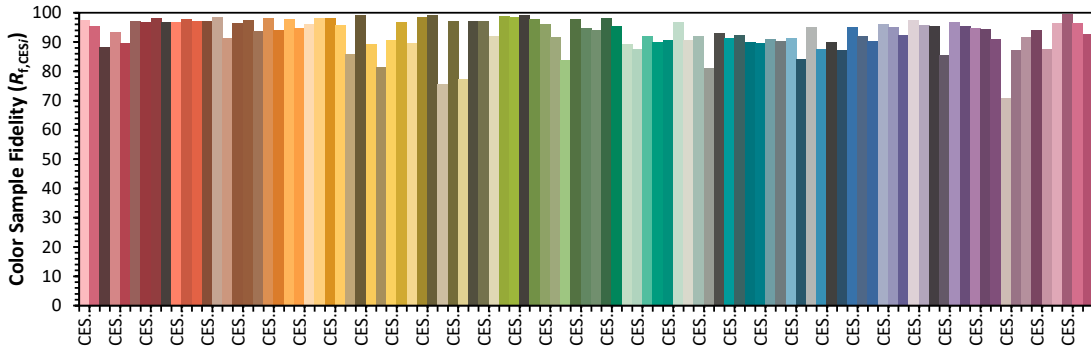
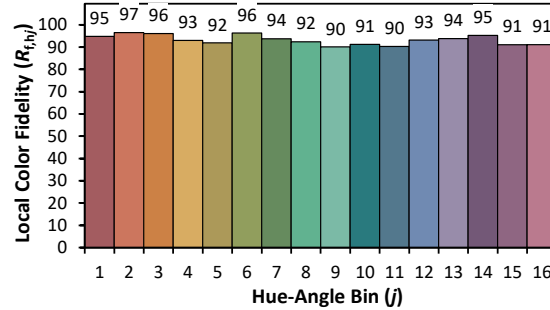
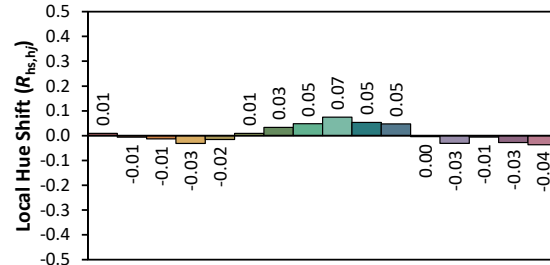
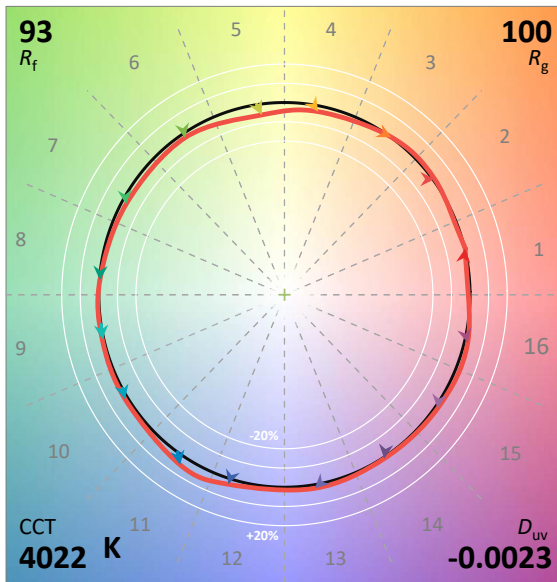
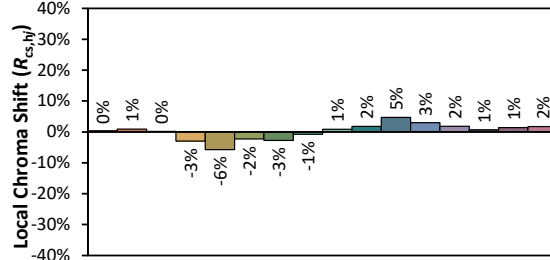
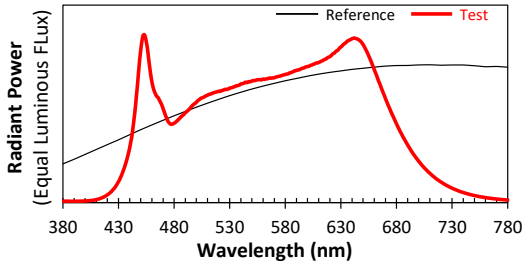
Date: 2023-03-10

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV40-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x **0.3778**  
 y **0.3703**  
 u' **0.2260**  
 v' **0.4983**

CIE 13.3-1995 (CRI)
$R_a$ 97
$R_g$ 92

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV50-05**

Order Number  
14709286  
Test Number  
14709286.07

Test Date  
2023-03-14

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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NVLAP, NIST, or any agency of the Federal Government.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	1916 mW
Luminous Flux:	528.8 lm
Luminaire Efficacy:	85.9 lm/W
CCT:	5200 K
CRI (Ra):	97.5
Chromaticity (x):	0.3398
Chromaticity (y):	0.3502
Chromaticity (u):	0.2084
Chromaticity (v):	0.3221
Duv:	0.0010

**Test Conditions**

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.1323 A
Power:	6.154 W
Power Factor:	0.387
Frequency:	60 Hz
Current THD:	235 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.

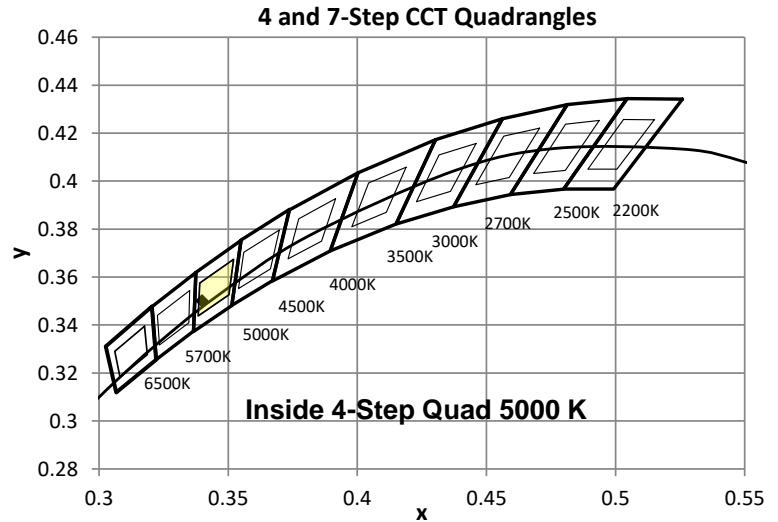
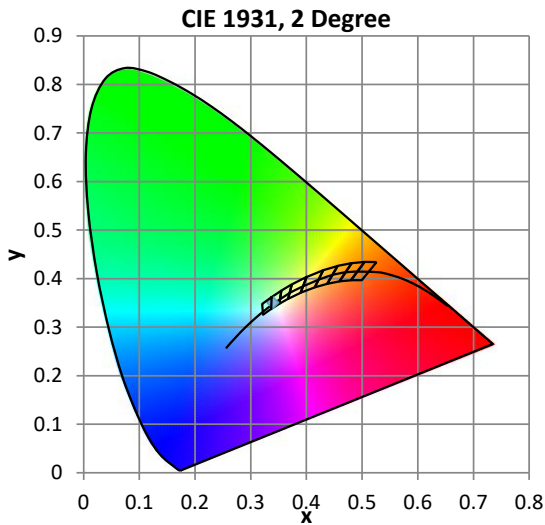
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.1323 A	6.154 W	0.387	60 Hz	235 %

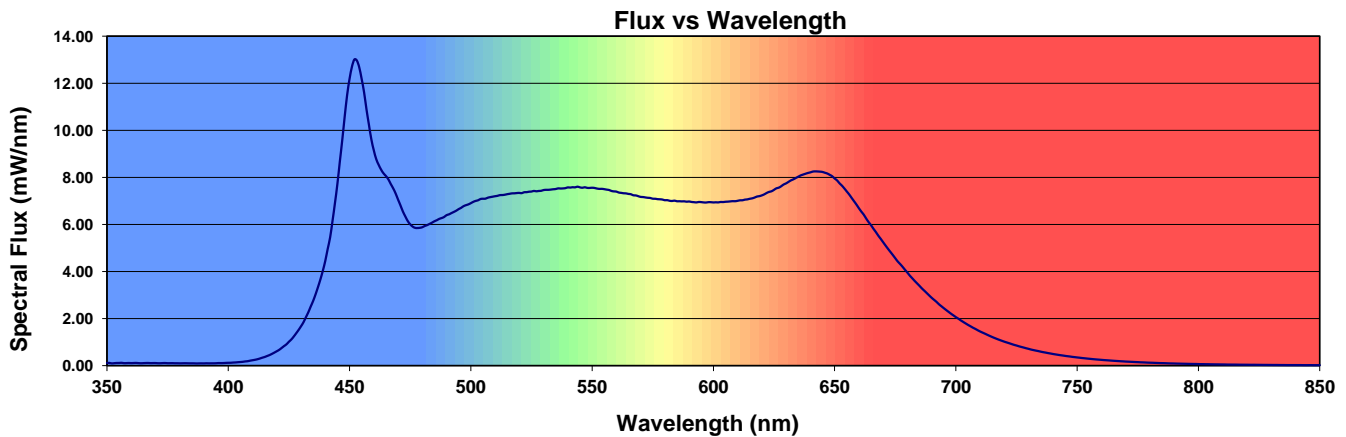
### Summary of Results

<b>Total Output:</b>	529 Lumens	<b>Chromaticity (x):</b>	0.3398
<b>Efficacy:</b>	85.9 lm/w	<b>Chromaticity (y):</b>	0.3502
<b>CCT:</b>	5200 K	<b>Chromaticity (u'):</b>	0.2084
<b>CRI (Ra):</b>	97.5	<b>Chromaticity (v'):</b>	0.4832
<b>CRI (R9):</b>	89.0	<b>TM-30 Rf:</b>	94
<b>Peak Wavelength:</b>	452 nm	<b>TM-30 Rg:</b>	100
<b>Dominant Wavelength:</b>	555 nm	<b>TM-30 Rcs,h1:</b>	1%
<b>S/P Ratio:</b>	2.21	<b>Duv:</b>	0.0014
<b>M/P Ratio:</b>	0.97	WELL Building Standard v2	



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.5	97.3	98.3	98.6	98.2	97.2	96.5	97.8	96.1	89.0	97.5	98.0	80.2	97.4	98.8	95.0



# ANSI/IES TM-30-18 Color Rendition Report

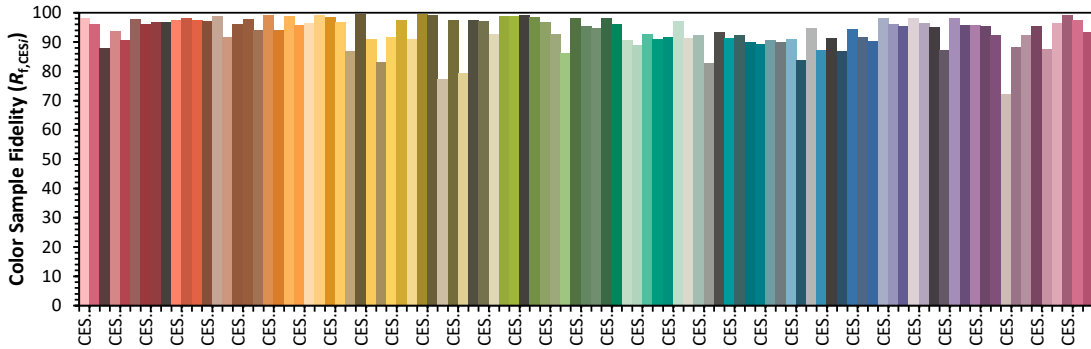
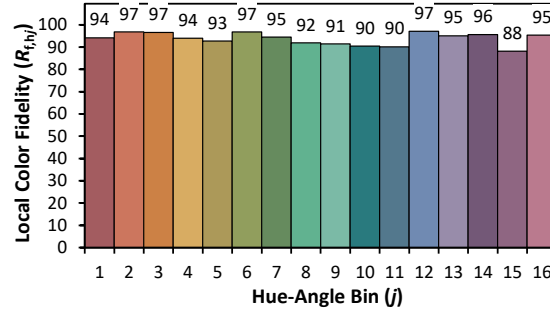
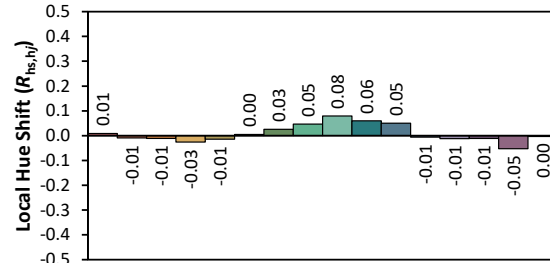
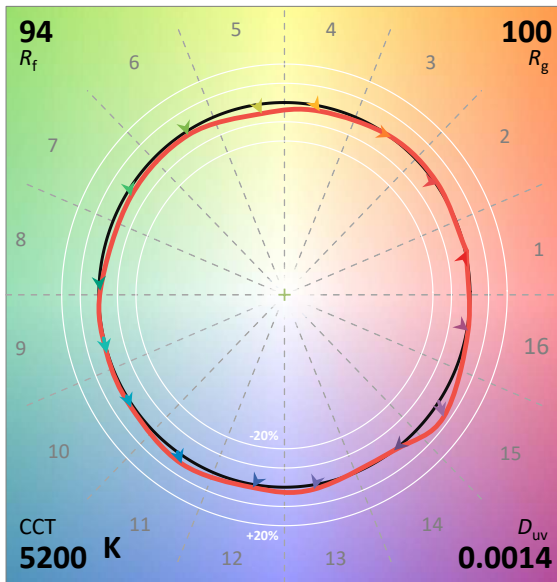
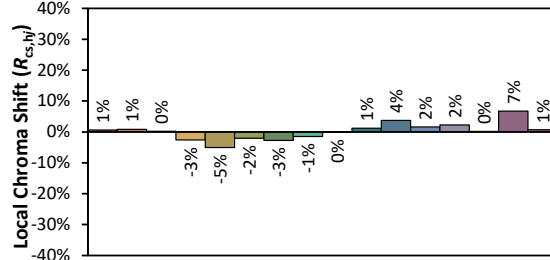
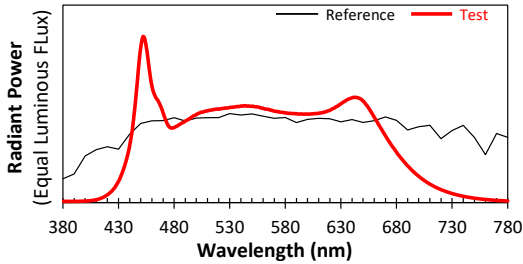
Date: 2023-03-14

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV50-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3398  
y 0.3502  
u' 0.2084  
v' 0.4832

CIE 13.3-1995 (CRI)  
Ra 97  
Rg 89

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV57-05**

Order Number  
14709286  
Test Number  
14709286.08

Test Date  
2023-03-14

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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NVLAP, NIST, or any agency of the Federal Government.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	2016 mW
Luminous Flux:	533.7 lm
Luminaire Efficacy:	85.3 lm/W
CCT:	5789 K
CRI (Ra):	93.6
Chromaticity (x):	0.3262
Chromaticity (y):	0.3349
Chromaticity (u):	0.2049
Chromaticity (v):	0.3156
Duv:	-0.0010

**Test Conditions**

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.1342 A
Power:	6.256 W
Power Factor:	0.388
Frequency:	60 Hz
Current THD:	235 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.



## Color Quality - Integrating Sphere

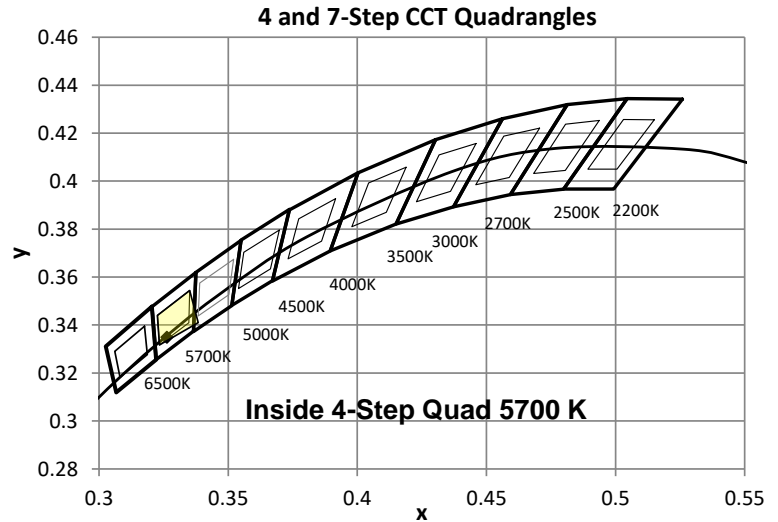
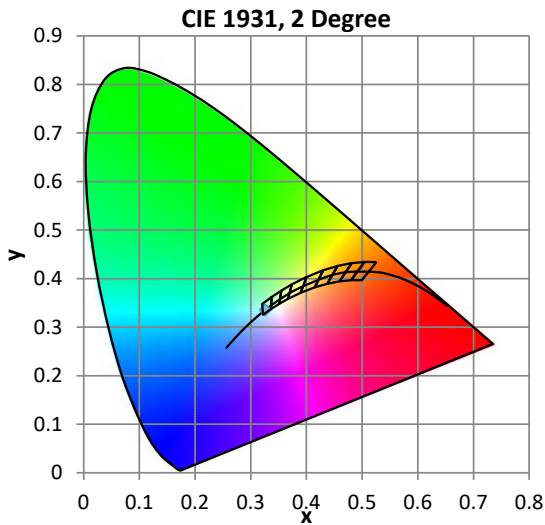
### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1342 A	6.256 W	0.388	60 Hz	235 %

### Summary of Results

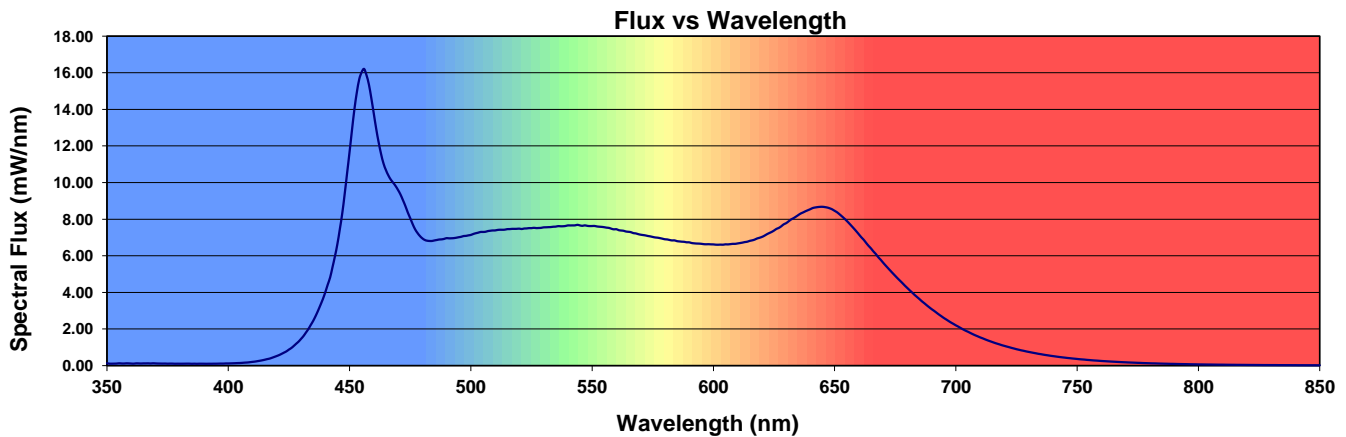
<b>Total Output:</b>	534 Lumens	<b>Chromaticity (x):</b>	0.3262
<b>Efficacy:</b>	85.3 lm/w	<b>Chromaticity (y):</b>	0.3349
<b>CCT:</b>	5789 K	<b>Chromaticity (u'):</b>	0.2049
<b>CRI (Ra):</b>	93.6	<b>Chromaticity (v'):</b>	0.4734
<b>CRI (R9):</b>	65.9	<b>TM-30 Rf:</b>	90
<b>Peak Wavelength:</b>	456 nm	<b>TM-30 Rg:</b>	99
<b>Dominant Wavelength:</b>	495 nm	<b>TM-30 Rcs,h1:</b>	3%
<b>S/P Ratio:</b>	2.39	<b>Duv:</b>	-0.0003
<b>M/P Ratio:</b>	1.07		

WELL Building Standard v2



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	92.7	94.1	99.0	93.9	93.2	93.8	93.7	88.4	65.9	89.1	96.6	75.1	92.5	98.9	87.5



# ANSI/IES TM-30-18 Color Rendition Report

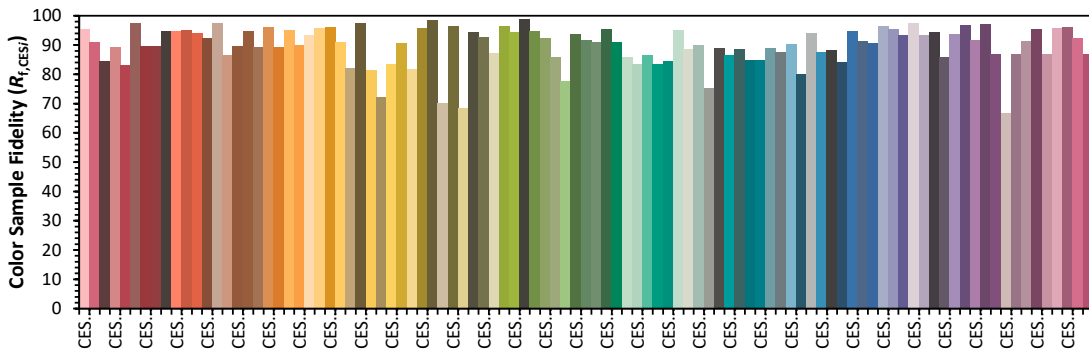
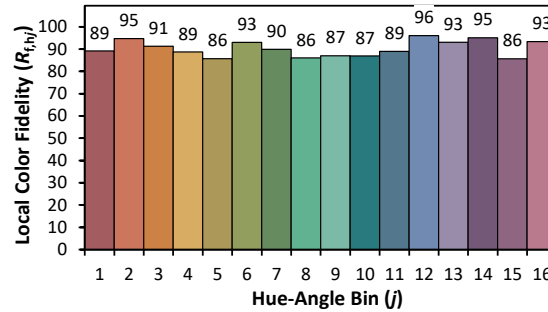
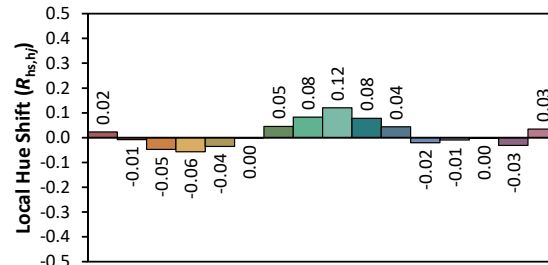
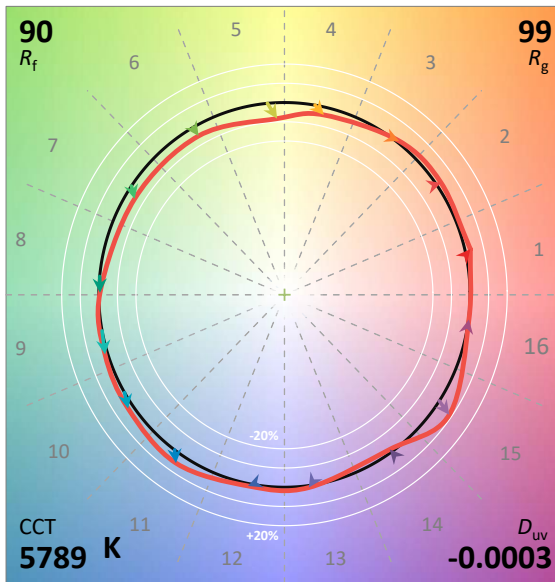
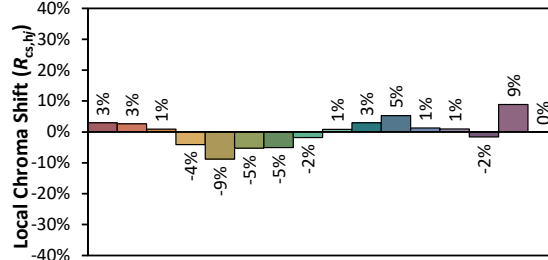
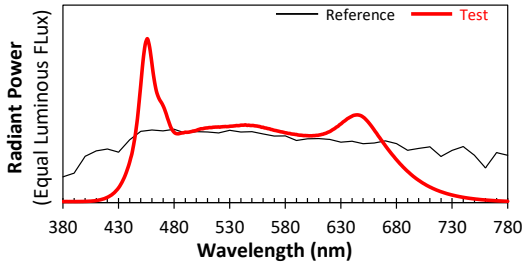
Date: 2023-03-14

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV57-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3262  
y 0.3349  
u' 0.2049  
v' 0.4734

CIE 13.3-1995 (CRI)	
$R_a$	94
$R_g$	66

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For  
**SIRS Electronics Inc**  
3307 West St  
Rosenberg, TX 77471

Catalog Number  
**ACUFIT-24CV65-05**

Order Number  
14709286  
Test Number  
14709286.09

Test Date  
2023-03-14

Prepared By

Derek Smarr, Senior Technician

Approved By

Jeffrey Lockner, Staff Engineer

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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.



**Luminaire Description:** Flexible tape light, no enclosure  
**Lamp:** 90 white LEDs  
**Mounting:** Surface  
**Ballast/Driver:** One Cull Power SAW30-240-1200 R1 Power Supply

**Luminaire**



**Summary of Results**

Radiant Flux:	2091 mW
Luminous Flux:	558.6 lm
Luminaire Efficacy:	88.8 lm/W
CCT:	6940 K
CRI (Ra):	92.2
Chromaticity (x):	0.3068
Chromaticity (y):	0.3190
Chromaticity (u):	0.1974
Chromaticity (v):	0.3080
Duv:	0.0006

**Test Conditions**

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.1349 A
Power:	6.292 W
Power Factor:	0.389
Frequency:	60 Hz
Current THD:	235 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.  
Absorption correction was employed for this measurement.

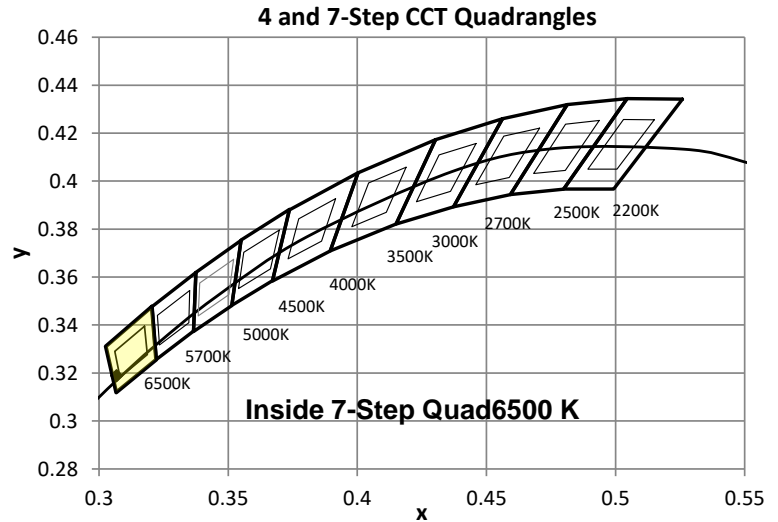
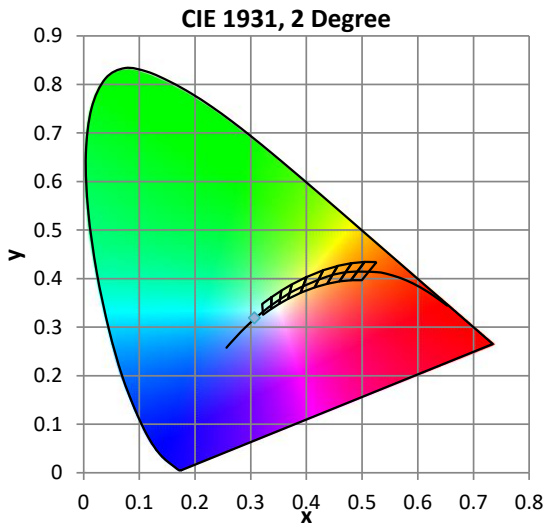
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.1349 A	6.292 W	0.389	60 Hz	235 %

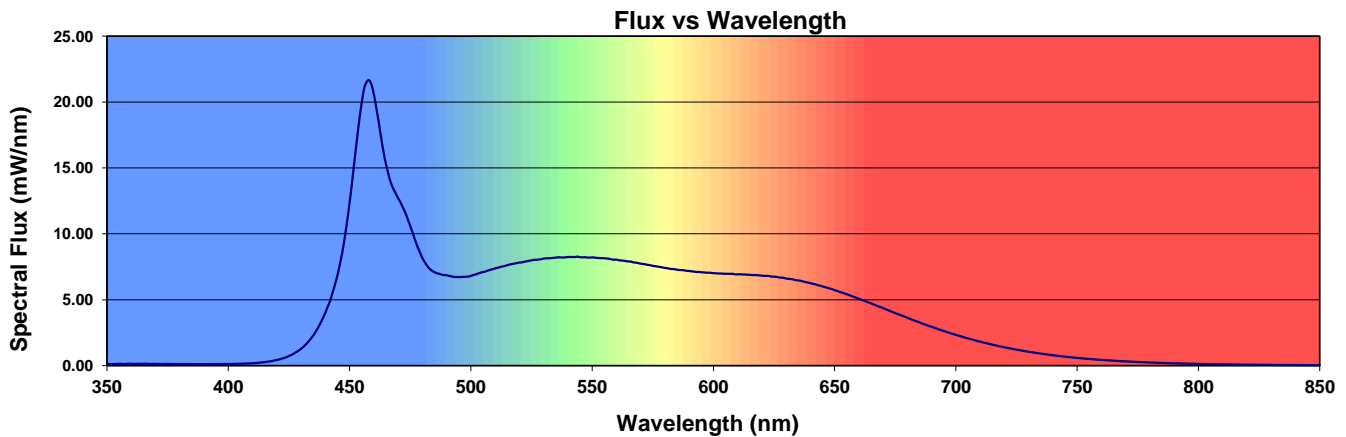
### Summary of Results

<b>Total Output:</b>	559 Lumens	<b>Chromaticity (x):</b>	0.3068
<b>Efficacy:</b>	88.8 lm/w	<b>Chromaticity (y):</b>	0.3190
<b>CCT:</b>	6940 K	<b>Chromaticity (u'):</b>	0.1974
<b>CRI (Ra):</b>	92.2	<b>Chromaticity (v'):</b>	0.4620
<b>CRI (R9):</b>	92.8	<b>TM-30 Rf:</b>	86
<b>Peak Wavelength:</b>	458 nm	<b>TM-30 Rg:</b>	95
<b>Dominant Wavelength:</b>	485 nm	<b>TM-30 Rcs,h1:</b>	-3%
<b>S/P Ratio:</b>	2.54	<b>Duv:</b>	0.0011
<b>M/P Ratio:</b>	1.16 WELL Building Standard v2		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.2	95.8	96.3	96.0	86.1	91.0	93.4	89.1	89.8	92.8	95.6	89.4	64.7	97.7	98.7	91.1



# ANSI/IES TM-30-18 Color Rendition Report

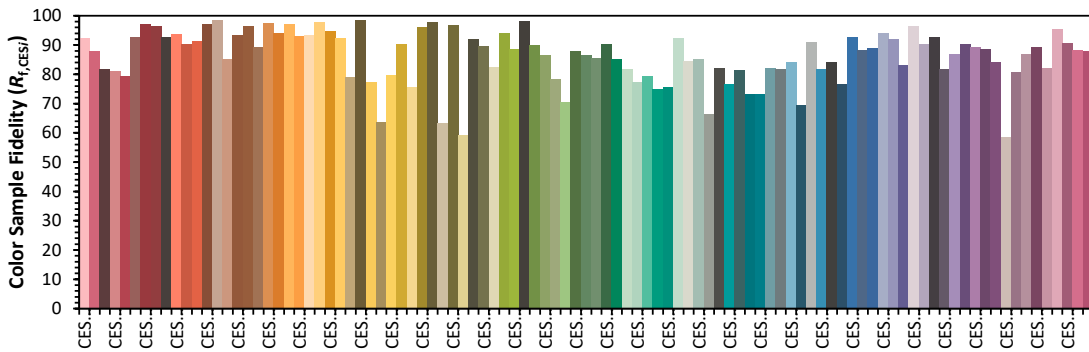
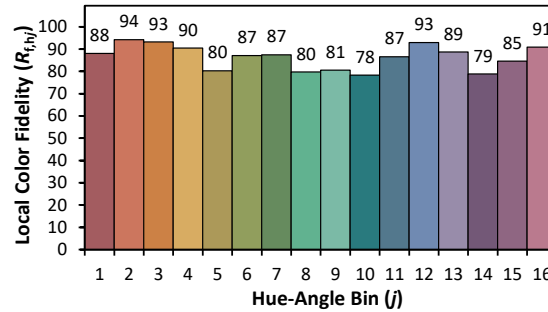
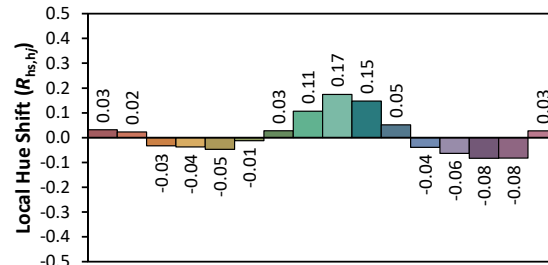
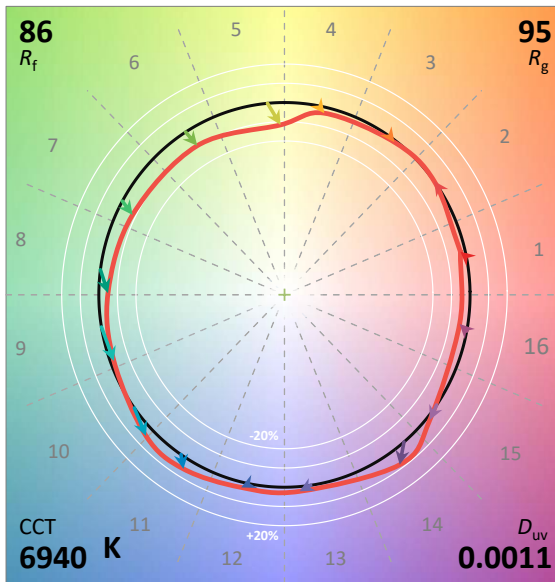
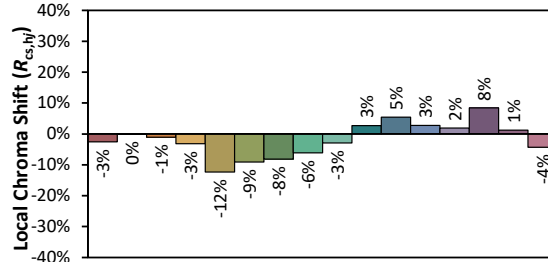
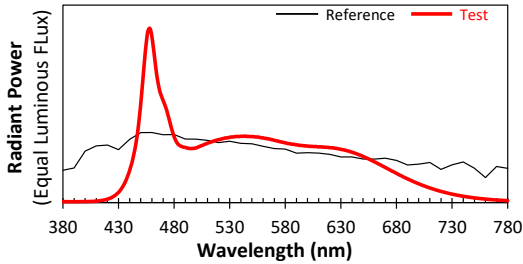
Date: 2023-03-14

Manufacturer:

SIRS Electronics Inc

Model:

ACUFIT-24CV65-05



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x **0.3068**  
 y **0.3190**  
 u' **0.1974**  
 v' **0.4620**

CIE 13.3-1995 (CRI)	
$R_a$	92
$R_g$	93

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.

# Certificate of Compliance

**Certificate Number:**

UL-US-L479339-51-  
92015102-3

**Report Reference:**

E479339-20151029

**Issue Date:**

2024-01-11

Issued to:

**SIRS ELECTRONICS INC**  
**3307 West St Rosenberg, TX 77471**  
**United States**

This certificate confirms that representative samples of:

**IFDR - Low-voltage Lighting Systems, Power Units, Luminaires and Fittings**

**See Addendum Page for Product Designation(s).**

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

**UL 2108, Edition 2, Issue Date 2015-12-07, Revision Date 2023-04-18**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



David Picuch  
UL Mark Certification Program Manager



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

# CERTIFICATE OF COMPLIANCE

**Certificate number**    UL-US-L479339-51-92015102-3  
**Report reference**     E479339-20151029  
**Date**                     2024-01-11

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
5050-24V-4RGBXX, where XX is A, WH or WW, 5050-24V- WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-24RGB, 5050-24RGBXX where XX is A, WN or WW, 5050-24WX where X is N, W or C, may be followed additional alphanumeric characters	Low Voltage Luminaire Control
5050-24V-RGB, where XX is A, WH or WW, 5050-24V-WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-24RGB, 5050-24RGBXX where XX is A, WN or WW, 5050-24WX where X is N, W or C, may be followed additional alphanumeric characters	Low Voltage Luminaire Control
5050-LED-4RGBXX-72, where XX is A, WH or WW, 5050-LED-WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-12RGB, 5050-12RGBXX where XX is A, WN or WW, 5050-12WX where X is N, W or C, may be followed additional alphanumeric characters	Low-Voltage strip Luminaire
5050-LED-RGB, where XX is A, WH or WW, 5050-LED-WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-12RGB, 5050-12RGBXX where XX is A, WN or WW, 5050-12WX where X is N, W or C, may be followed additional alphanumeric characters	Low-Voltage strip Luminaire
ACUFIT	Low Voltage Lighting Systems
ACUHUE	Low-Voltage strip Luminaire
ACUVIBRANT	Low-Voltage strip Luminaire
ACUVIVID	Low-Voltage strip Luminaire
ACUVIVID2	Low Voltage Lighting Systems
DMX5RGB	Low Voltage Lighting Systems
DMX5RGBWN	Low Voltage Lighting Systems
StripFlexLED	Low Voltage Lighting Systems



David Picuch  
UL Mark Certification Program Manager

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.





# Certificate of Compliance

## Certificate Number:

UL-CA-L479339-71-  
92015102-3

## Report Reference:

E479339-20151029

## Issue Date:

2024-01-11

Issued to:

**SIRS ELECTRONICS INC**  
**3307 West St Rosenberg, TX 77471**  
**United States**

This certificate confirms that representative samples of:

**IFDR7 - Low-voltage Lighting Systems, Power Units, Luminaires and Fittings Certified for Canada**

**See Addendum Page for Product Designation(s).**

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

**CSA C22.2 NO. 250.2, 1st Ed., Issue Date: 2020-01-01**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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David Piecuch  
UL Mark Certification Program Manager



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# CERTIFICATE OF COMPLIANCE

**Certificate number**    UL-CA-L479339-71-92015102-3  
**Report reference**     E479339-20151029  
**Date**                      2024-01-11

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
5050-24V-4RGBXX, where XX is A, WH or WW, 5050-24V- WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-24RGB, 5050-24RGBXX where XX is A, WN or WW, 5050-24WX where X is N, W or C, may be followed additional alphanumeric characters	Low Voltage Luminaire Control
5050-24V-RGB, where XX is A, WH or WW, 5050-24V-WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-24RGB, 5050-24RGBXX where XX is A, WN or WW, 5050-24WX where X is N, W or C, may be followed additional alphanumeric characters	Low Voltage Luminaire Control
5050-LED-4RGBXX-72, where XX is A, WH or WW, 5050-LED-WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-12RGB, 5050-12RGBXX where XX is A, WN or WW, 5050-12WX where X is N, W or C, may be followed additional alphanumeric characters	Low-Voltage strip Luminaire
5050-LED-RGB, where XX is A, WH or WW, 5050-LED-WH, -WW, -CW, may be followed additional alphanumeric characters, 5050-12RGB, 5050-12RGBXX where XX is A, WN or WW, 5050-12WX where X is N, W or C, may be followed additional alphanumeric characters	Low-Voltage strip Luminaire
ACUFIT	Low Voltage Lighting Systems
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DMX5RGB	Low Voltage Lighting Systems
DMX5RGBWN	Low Voltage Lighting Systems
StripFlexLED	Low Voltage Lighting Systems



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