

The SIRS-E® DMX Digital (DD) LED Strip Series utilizes a direct DMX512 signal to control a pixel-by-pixel programmable LED tape light via the DMX software of your choice. Each Diode can produce millions of colors by adjusting the light intensity of the different individual primary colors. With the ability to control every individual pixel and channel, the color mixing of effects makes possibilities endless. No additional decoders or signal filters are required. Data and power are the only things needed to control each strip individually. Now, our newly upgraded models comply with all safety requirements defined by UL standards.



### Technical Specifications

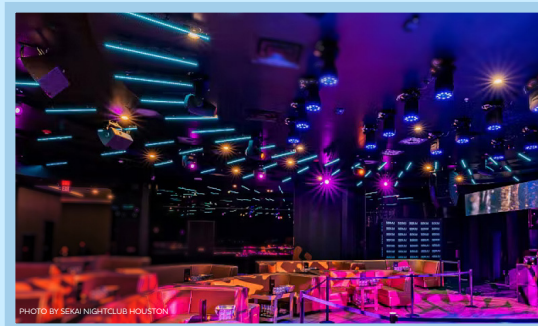
- Cuttable every pixel / Auto-address
- 14mm (0.56in) Wide including the waterproof sleeve
- 3M VHB Aero-Grade Tape, engineered to dissipate heat
- Male 5-Pin wired XLR connector for standard DMX Connection included
- 5V DC Input Voltage

### RGB

- 34 LEDs/m LED Density
- 5m Max length/run

### RGBW

- 32 LEDs/m LED Density
- 4m Max length/run



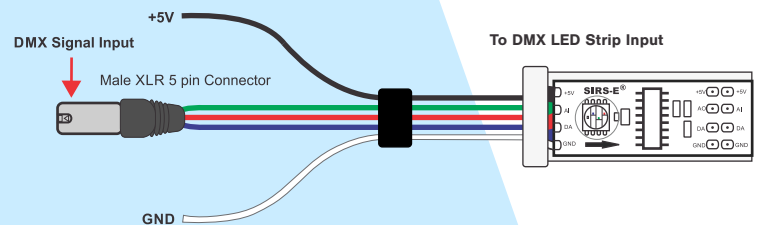
### Applications

The **DMX Digital (DD)** LED Series is suitable for all kinds of linear lighting applications such as entertainment, architectural, commercial, residential, productions, shows, and many more.

### Main Features

- Available in RGB and RGBW (5500K) Color, waterproof IP67 & IP68
- Individual single pixel LED Control
- Smooth fade
- High refresh rate for film use (Flicker-Free)
- No signal filter required (Version 2.0)
- 5-Year Limited Warranty

### Direct DMX Control



### Available Versions

- Red/Green/Blue (RGB)
- Red/Green/Blue/White (RGBW)
- IP67
- IP68
- CE and Rohs
- UL Listed, Class 2, E479339

For more information, please download the datasheet pdf or contact SIRS-E Technical Support.

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



Customer Name

Project Name


Part Number



## Description

SIRS-E<sup>®</sup> DMX RGB LED strip lights let you create millions of colors by just mixing red, green, and blue colors. With the ability to control each individual pixel and channel, the color mix and color effects possibilities are endless. Compliant with all safety requirements as defined by UL standards.

## Product Specifications

<b>Input Voltage</b>	5V DC	<b>Cut/Readdress</b>	Cutttable and Readdressable at every pixel <sup>1</sup>
<b>Control Method</b>	DMX 512 Control - Pixel by Pixel	<b>Reel Length</b>	16.4 ft / 5 m
<b>Power Consumption</b>	2.00 W/ft	<b>Max Run Length</b>	16.4 ft / 5 m, powered from both sides
<b>LED Chip Type</b>	High Quality SMD 3-Diode RGB	<b>Segment Width</b>	0.56 in (14.3 mm)
<b>LED Density</b>	10 LEDs/ft / 34 LEDs/m	<b>Luminous Flux Maintenance</b>	75,000 hrs <sup>2</sup>
<b>Channels/Pixels</b>	3 Channels per Pixel (510 Channels Total) <sup>4</sup>	<b>Dimming</b>	DMX512 Control - Pixel by Pixel
<b>Board Type/Color</b>	3 oz Density Copper, Black PCB	<b>Environmental</b>	IP 67/68 - Dry and Damp Locations
<b>Operating Temperature</b>	-20°F to 120°F	<b>Warranty</b>	5 Years Limited
<b>Mounting</b>	Non-Porous: 3M Adhesive Tape	<b>Certifications</b>	 UL Listed E479339

## NVLAP<sup>®</sup> Product Photometrics - Red, Green and Blue Diodes<sup>3</sup>

Color Diode	Peak Wavelength (nm)	Dominant Wavelength (nm)	CIE (x,y)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)
Red	632	622	(0.6929, 0.3054)	24	16.31
Green	516	519	(0.1360, 0.7072)	54	36.8
Blue	463	468	(0.1362, 0.0564)	13	9.1

## NVLAP<sup>®</sup> Product Photometrics - All Three Colors at Full Intensity<sup>3</sup>

Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CIE (x,y)	Duv	CRI	TM-30-15	
						Fidelity (Rf)	Gamut (Rg)
22000 K	87	22.9	(0.2396, 0.2344)	+0.0004	35.0	48	104

1 - The DMX RGB LED strips are cuttable every pixel. You need to cut at 1.15in (29.29mm), represented where the solder joints are.

2 - After 75,000 hrs: 30% Luminous Flux loss, 10% Chromaticity change, as per LM-80-15

3 - Photometric values obtained from NVLAP Test Reports.

4 - The DMX RGB LED strips are configured by default on channel 1. If you want to change the starting address, you will need a DMX Address Whitter (DMX-STRP-PROG2), available on our website.

### Ordering Guide

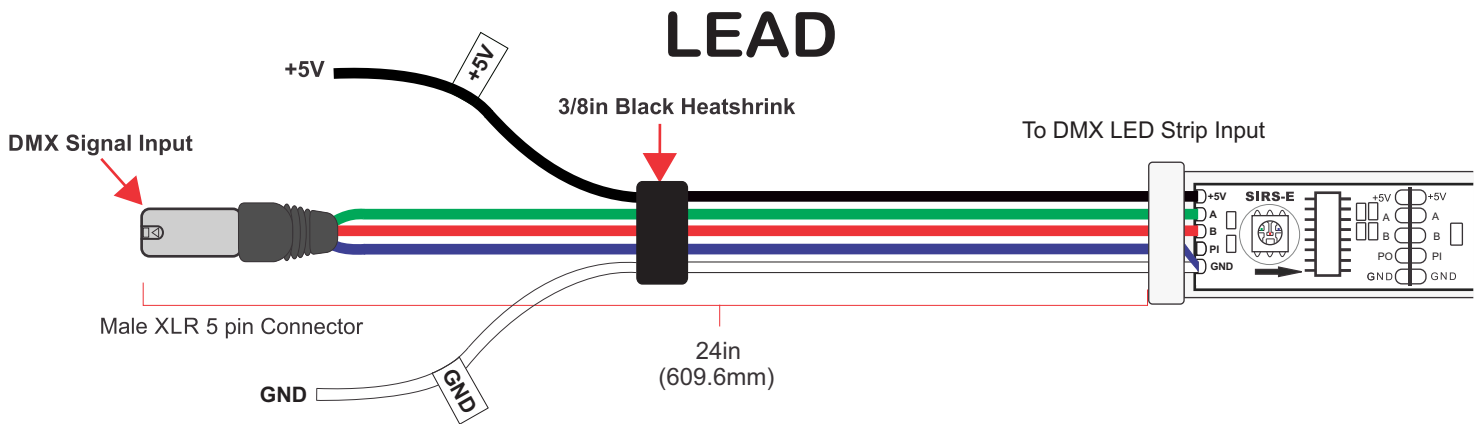
	Voltage	Color	Density	IP
<b>DMX</b>	<b>5</b>	<b>RGB</b>	<b>34</b>	<b>67</b>
<b>DMX</b>	<b>5</b>	<b>RGB</b>	<b>34</b>	<b>68*</b>

\*IP 68 Version consists of the same Physical Dimensions as IP67

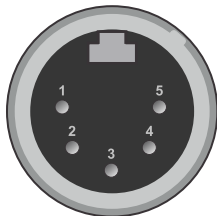
### Product Country of Origin

Product Engineering & Design	USA
Assembled	China Preassembled / USA Final Assembly
QC Quality Control	USA
Product Customization	USA
Technical Support	USA

### Wiring Diagram



### Color Code Male XLR 5 pin



(Front View)  
XLR Male Cable

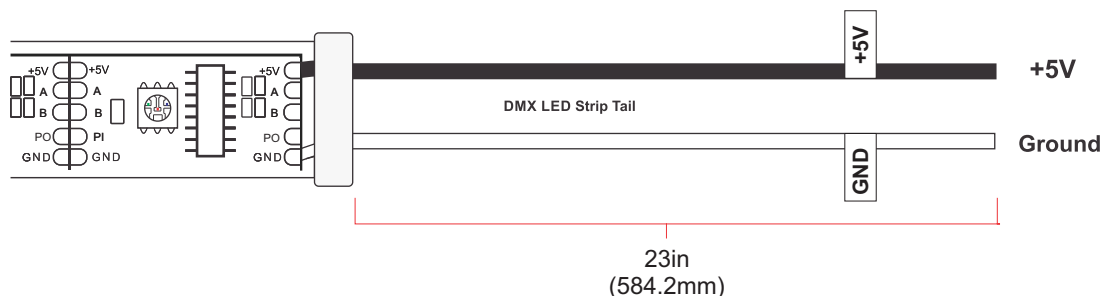
#### Color Code XLR

Pin 1 - V- / Ground	Blue
Pin 2 - B / DMX-	Red
Pin 3 - A / DMX+	Green
Pin 4 - NC	
Pin 5 - NC	

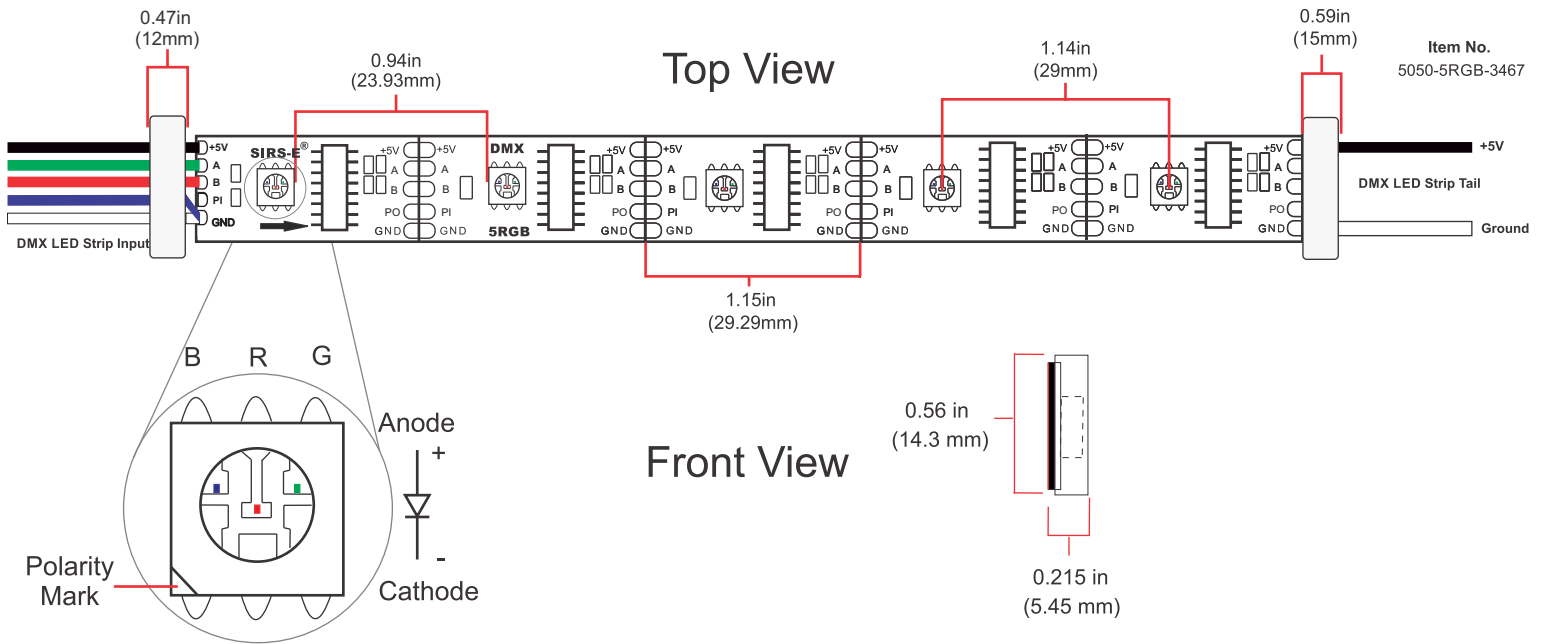
#### Color Code LED Strip

Black	+5V
Green	A
Red	B
Blue	Ground
White	Ground

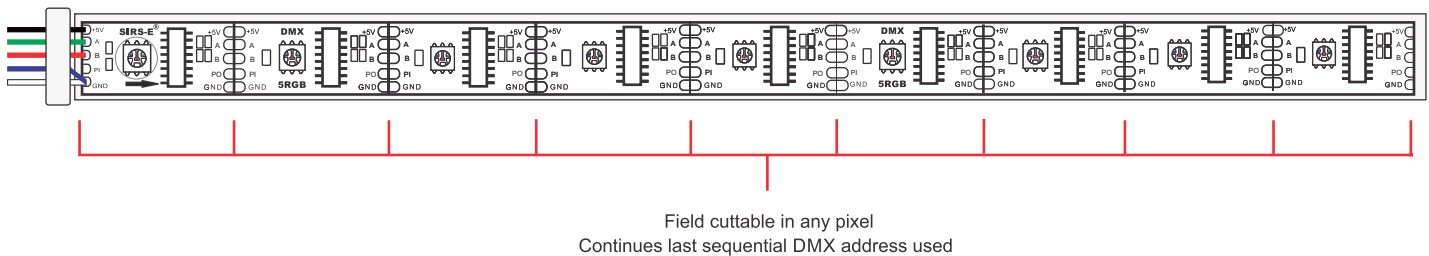
### TAIL



### Mechanical Dimensions



### Cutting & Re-Addressing Instructions



#### Important:

- The RGB DMX strips are cuttable in any pixel, and it will continue with the sequential DMX address that was last used.
- If you want to change the starting address back to 001, you will need a **DMX Address Writer** (PN# DMX-STRIP-PROG2), available on our website.

### Weight

Product Weight: 13.4 oz, 16.4 ft Reel (IP67), Without Packaging



### Compatible Accessories

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



SIRS-E®  
ArtNet to DMX Interface  
Pro 6 Universes  
(AD-PRO-6)



MADRIX USB One  
DMX512 Interface  
& Software License  
(Sold Separately)



Meanwell 5V PSU  
(LED-PS05V-30W-UL)



MADRIX Luna  
ArtNet Interface



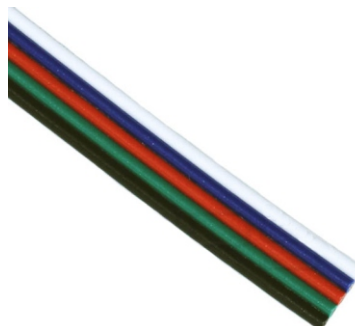
Baxter Controls DMX  
Basic Pocket Console  
(As a Testing Tool)



DMX Address Writer  
(DMX-STRIP-PROG2)



Neutrik  
5 PIN Male Connector  
(NC5MXX)



SIRS-E RGBW  
Wire Leads



## Notes

- A good technique to minimize brightness loss and increase lumen output on CV LED Strips is to power the strip on both sides.
- 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.

## 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



## 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  
Rosenburg, TX 77471  
United States

### Catalog Number

## DMX-5RGB-346X (RED)

Order Number

14430879

Test Number

14430879.06

Test Date

2022-08-08

Prepared By

Cordaryl Cousar, Technician

Approved By

Jeffrey Lockner, Staff Engineer

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**Luminaire Description:** RGB LED strip on formed aluminum with no lens enclosure  
**Lamp:** 11 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One meanwell GST60A05-P1J driver

**Luminaire**



**Summary of Results**

Radiant Flux:	120.1 mW
Luminous Flux:	23.93 lm
Luminaire Efficacy:	16.3 lm/W
CCT:	1000 K
CRI (Ra):	21.6
Chromaticity (x):	0.6929
Chromaticity (y):	0.3054
Chromaticity (u):	0.5250
Chromaticity (v):	0.3471
Duv:	0.0065

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.03970 A
Power:	1.469 W
Power Factor:	0.309
Frequency:	60 Hz
Current THD:	129 %

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





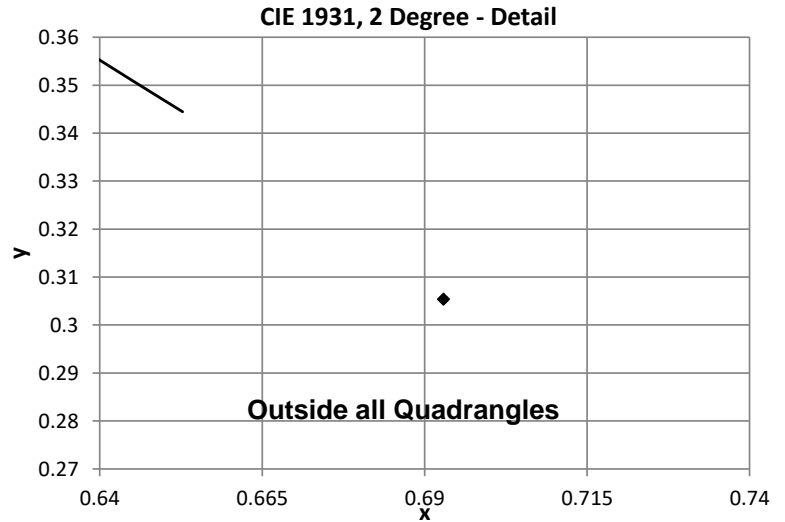
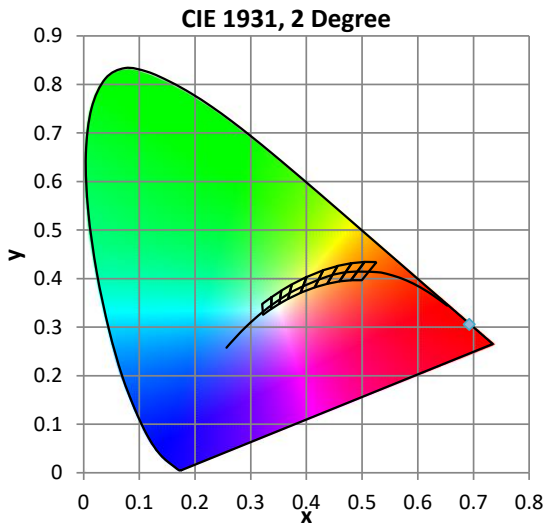
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.03970 A	1.469 W	0.309	60 Hz	129 %

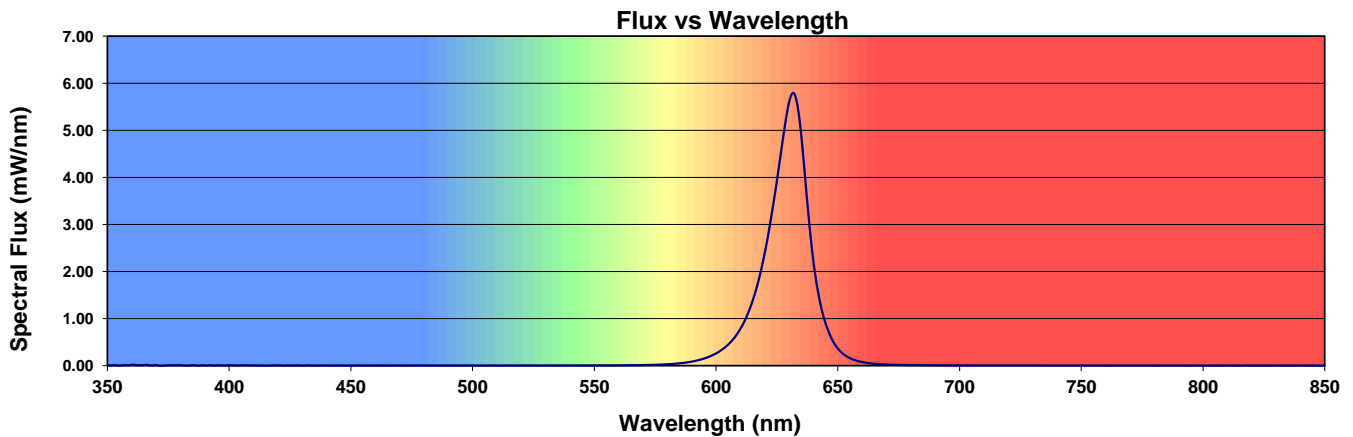
### Summary of Results

<b>Total Output:</b>	24 Lumens	<b>Chromaticity (x):</b>	0.6929
<b>Efficacy:</b>	16.3 lm/w	<b>Chromaticity (y):</b>	0.3054
<b>CCT:</b>	1000 K	<b>Chromaticity (u'):</b>	0.5250
<b>CRI (Ra):</b>	21.6	<b>Chromaticity (v'):</b>	0.5207
<b>CRI (R9):</b>	-201.8	<b>TM-30 Rf:</b>	19.7
<b>Peak Wavelength:</b>	632 nm	<b>TM-30 Rg:</b>	N/A
<b>Dominant Wavelength:</b>	622 nm	<b>TM-30 Rcs,h1:</b>	-4%
<b>S/P Ratio:</b>	0.07	<b>Duv:</b>	0.2419
<b>M/P Ratio:</b>	0.01	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
21.6	14.4	80.5	36.3	-15.0	11.0	92.1	11.8	-58.1	-201.8	75.1	-2.0	77.6	35.9	63.2	-27.2



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

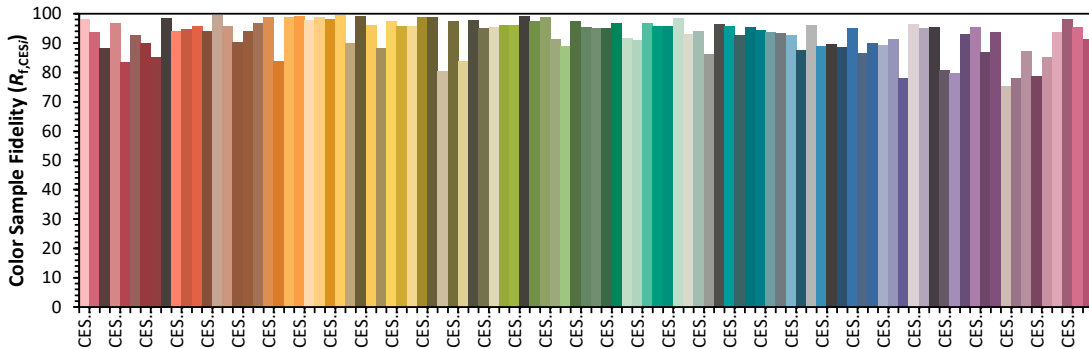
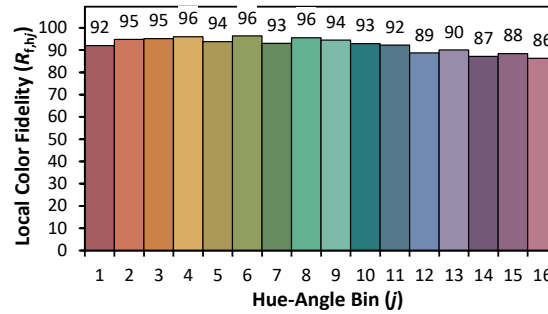
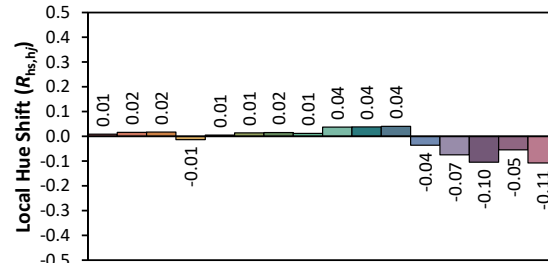
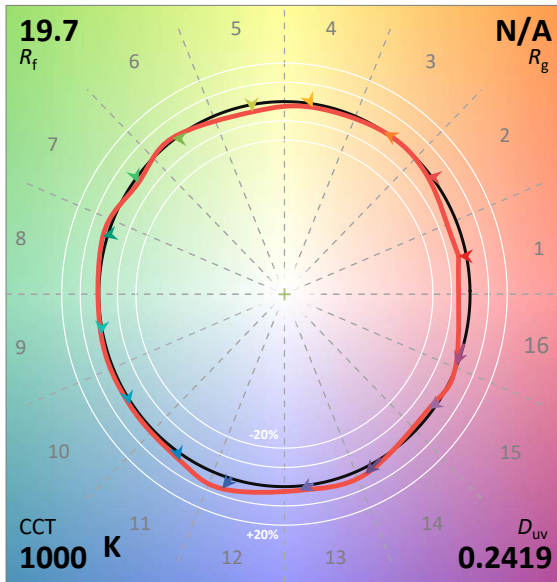
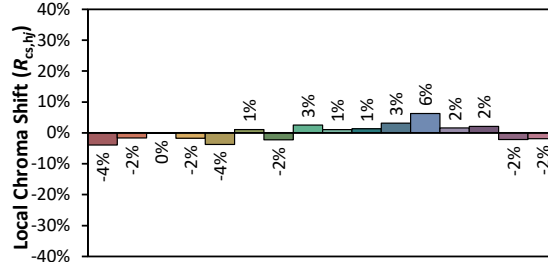
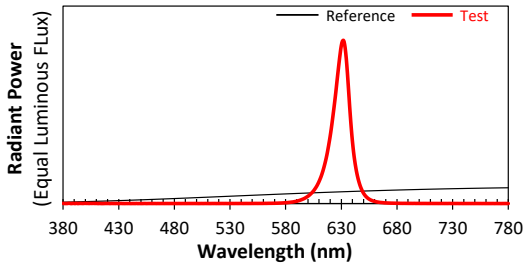
Date: 2022-08-08

Manufacturer:

SIRS Electronics Inc

Model:

DMX-5RGB-346X (RED)



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

x 0.6929  
y 0.3054  
u' 0.5250  
v' 0.5207

CIE 13.3-1995 (CRI)	
$R_a$	22
$R_g$	-202

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  
Rosenburg, TX 77471  
United States

### Catalog Number

## DMX-5RGB-346X (GREEN)

Order Number

14430879

Test Number

14430879.07

Test Date

2022-08-08

Prepared By

Cordaryl Cousar, Technician

Approved By

Jeffrey Lockner, Staff Engineer

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**Luminaire Description:** RGB LED strip on formed aluminum with no lens enclosure  
**Lamp:** 11 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One meanwell GST60A05-P1J driver

**Luminaire**



**Summary of Results**

Radiant Flux:	123.7 mW
Luminous Flux:	54.14 lm
Luminaire Efficacy:	36.8 lm/W
CCT:	8512 K
CRI (Ra):	-22.6
Chromaticity (x):	0.1360
Chromaticity (y):	0.7072
Chromaticity (u):	0.0485
Chromaticity (v):	0.3784
Duv:	0.1644

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.03971 A
Power:	1.470 W
Power Factor:	0.308
Frequency:	60 Hz
Current THD:	129 %

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



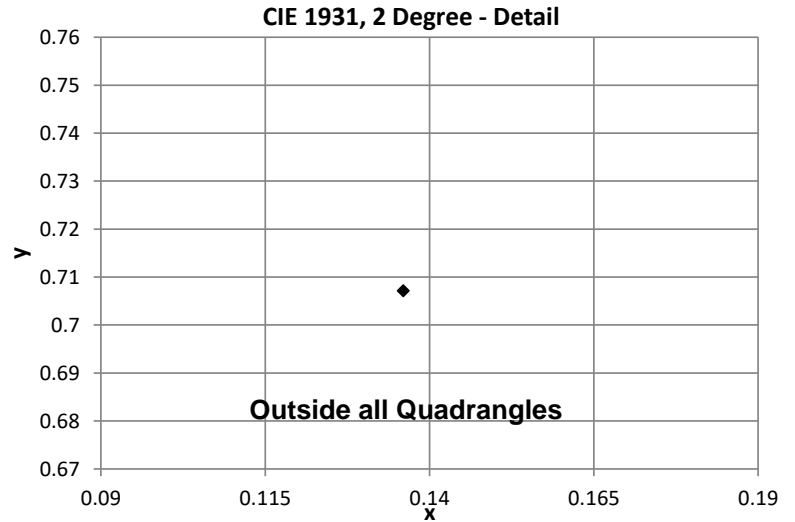
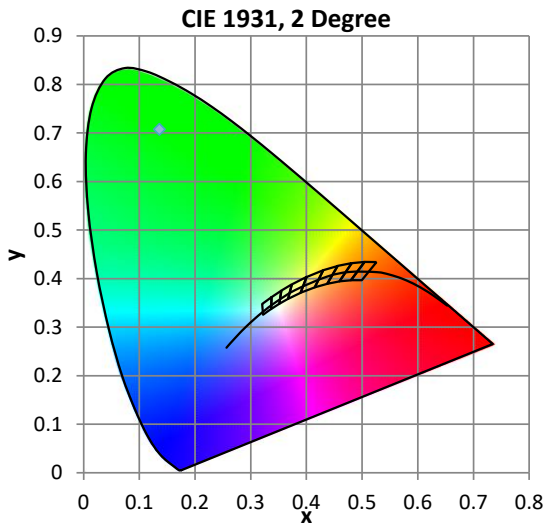
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.03971 A	1.470 W	0.308	60 Hz	129 %

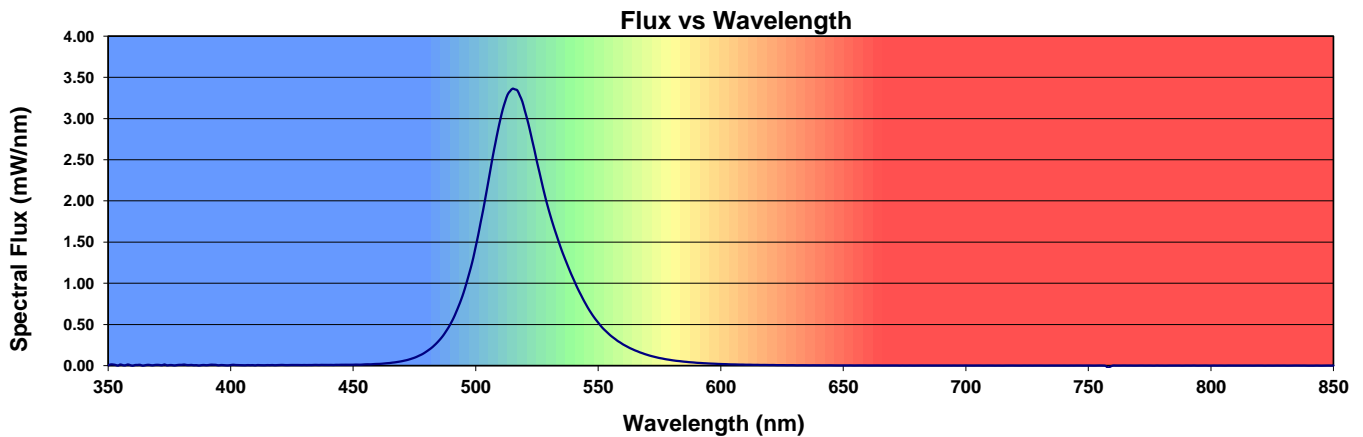
### Summary of Results

<b>Total Output:</b>	54 Lumens	<b>Chromaticity (x):</b>	0.1360
<b>Efficacy:</b>	36.8 lm/w	<b>Chromaticity (y):</b>	0.7072
<b>CCT:</b>	8512 K	<b>Chromaticity (u'):</b>	0.0485
<b>CRI (Ra):</b>	-22.6	<b>Chromaticity (v'):</b>	0.5675
<b>CRI (R9):</b>	-354.2	<b>TM-30 Rf:</b>	3
<b>Peak Wavelength:</b>	516 nm	<b>TM-30 Rg:</b>	9
<b>Dominant Wavelength:</b>	519 nm	<b>TM-30 Rcs,h1:</b>	-86%
<b>S/P Ratio:</b>	3.31	<b>Duv:</b>	0.1652
<b>M/P Ratio:</b>	1.29	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
-22.6	-35.4	-7.1	-20.9	-60.2	-8.8	-16.9	-3.0	-28.5	-354.2	-105.1	-87.9	-31.5	-41.7	39.5	-36.6





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

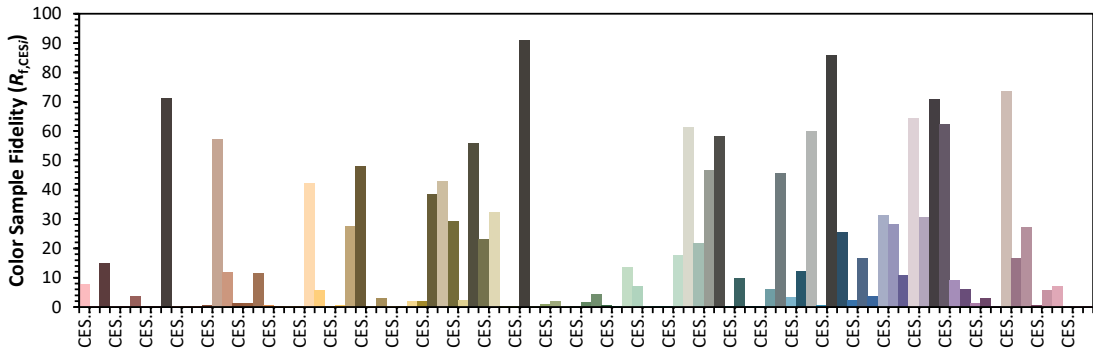
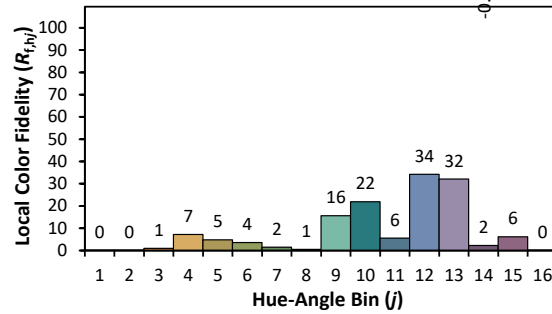
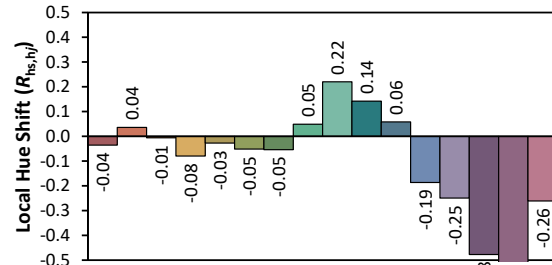
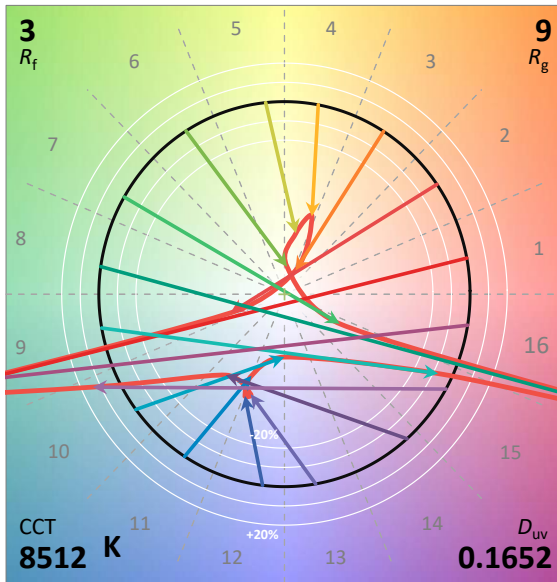
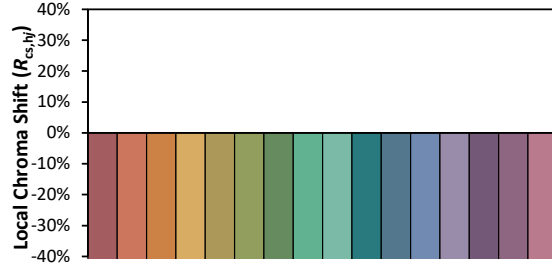
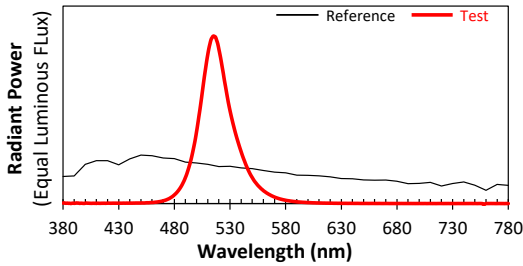
Date: 2022-08-08

Manufacturer:

SIRS Electronics Inc

Model:

DMX-5RGB-346X (GREEN)



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

x 0.1360  
y 0.7072  
u' 0.0485  
v' 0.5675

CIE 13.3-1995 (CRI)	
R <sub>a</sub>	-23
R <sub>g</sub>	-354

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



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## Integrating Sphere Test Report

### Relevant Standards

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CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

### Prepared For

## SIRS Electronics Inc

3307 West St  
Rosenburg, TX 77471  
United States

### Catalog Number

## DMX-5RGB-346X (BLUE)

Order Number

14430879

Test Number

14430879.08

Test Date

2022-08-08

Prepared By

Cordaryl Cousar, Technician

Approved By

Jeffrey Lockner, Staff Engineer

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**Luminaire Description:** RGB LED strip on formed aluminum with no lens enclosure  
**Lamp:** 11 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One meanwell GST60A05-P1J driver

**Luminaire**



**Summary of Results**

Radiant Flux:	206.8 mW
Luminous Flux:	13.33 lm
Luminaire Efficacy:	9.1 lm/W
CCT:	22000 K
CRI (Ra):	-50.2
Chromaticity (x):	0.1362
Chromaticity (y):	0.0564
Chromaticity (u):	0.1600
Chromaticity (v):	0.0994
Duv:	0.0273

**Test Conditions**

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.03962 A
Power:	1.463 W
Power Factor:	0.308
Frequency:	60 Hz
Current THD:	129 %

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



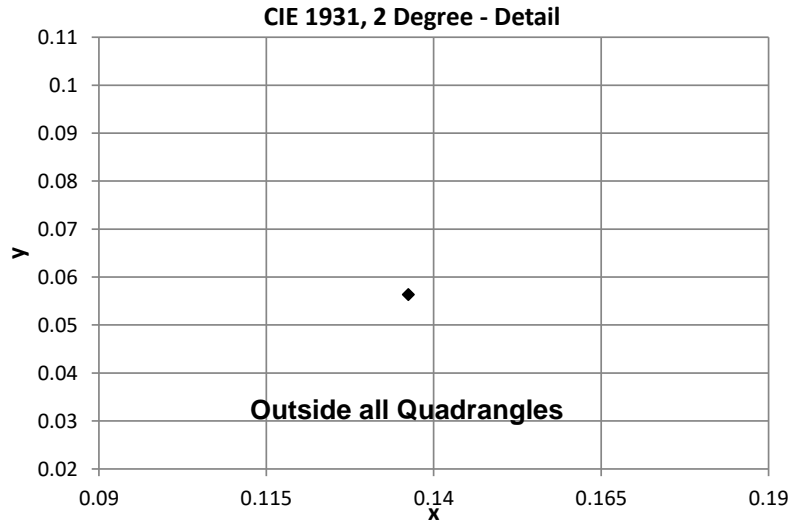
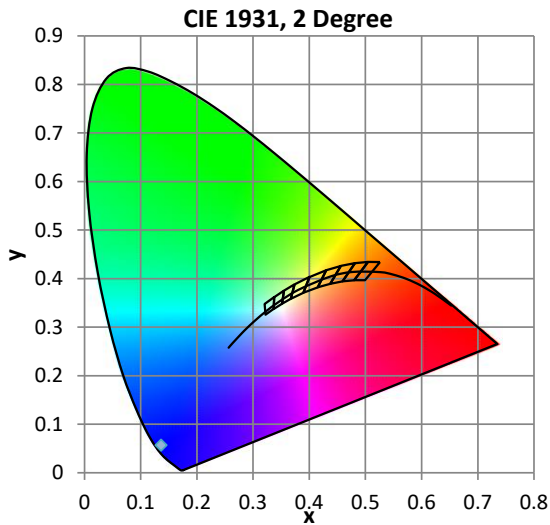
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.03962 A	1.463 W	0.308	60 Hz	129 %

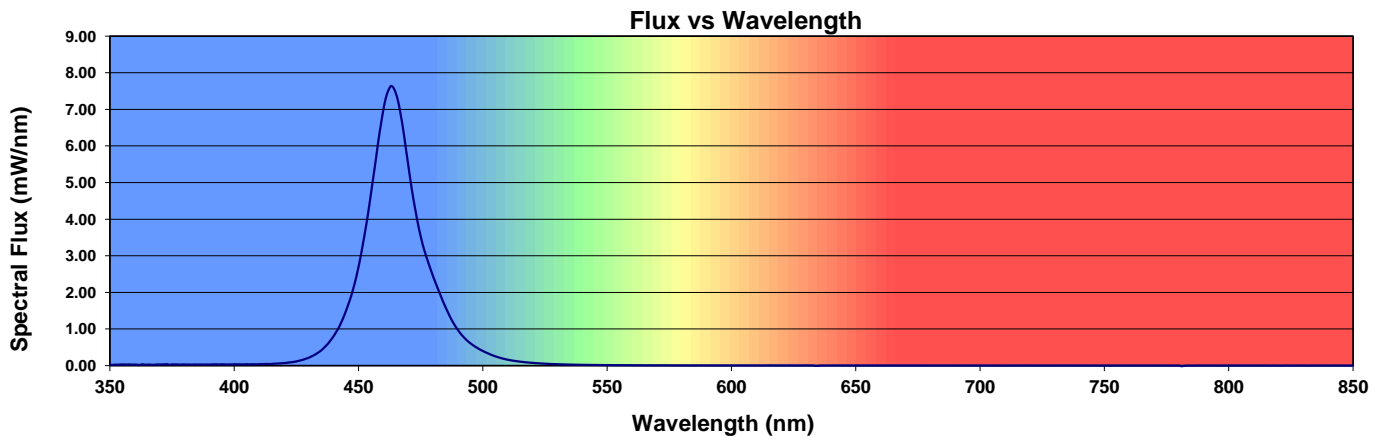
### Summary of Results

<b>Total Output:</b>	13 Lumens	<b>Chromaticity (x):</b>	0.1362
<b>Efficacy:</b>	9.1 lm/w	<b>Chromaticity (y):</b>	0.0564
<b>CCT:</b>	22000 K	<b>Chromaticity (u'):</b>	0.1600
<b>CRI (Ra):</b>	-50.2	<b>Chromaticity (v'):</b>	0.1491
<b>CRI (R9):</b>	-301.2	<b>TM-30 Rf:</b>	0
<b>Peak Wavelength:</b>	463 nm	<b>TM-30 Rg:</b>	28
<b>Dominant Wavelength:</b>	468 nm	<b>TM-30 Rcs,h1:</b>	-85%
<b>S/P Ratio:</b>	16.2	<b>Duv:</b>	0.0771
<b>M/P Ratio:</b>	9.66 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
-50.2	-22.3	-36.6	-122.5	-83.8	-4.0	-52.6	-41.5	-38.6	-301.2	-204.1	-118.7	-108.5	-35.8	-23.2	-8.4



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

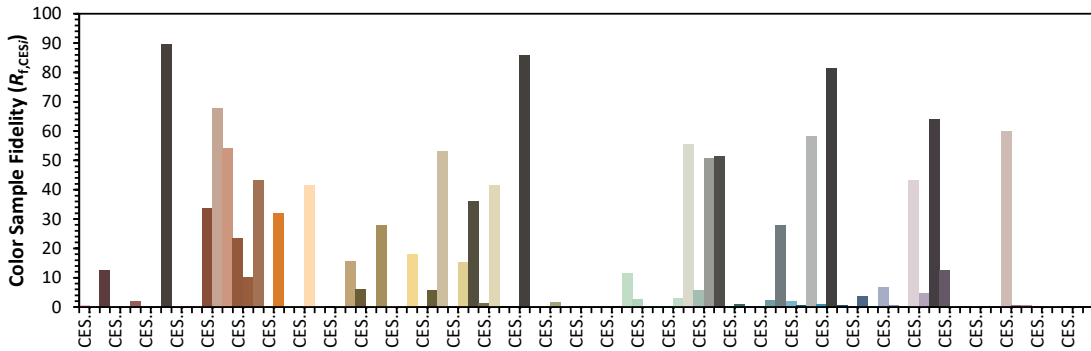
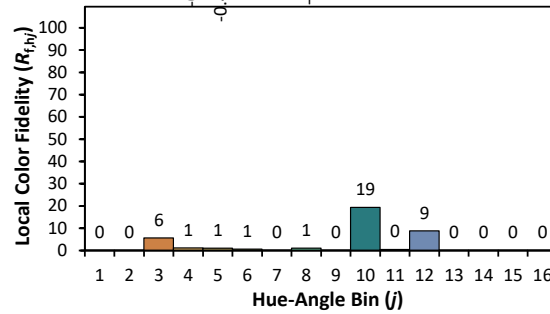
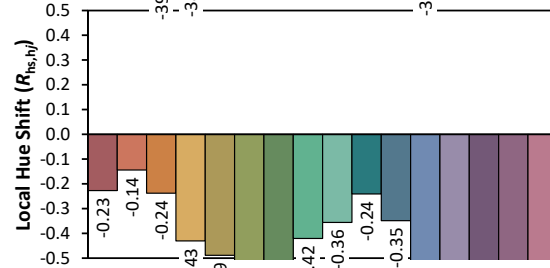
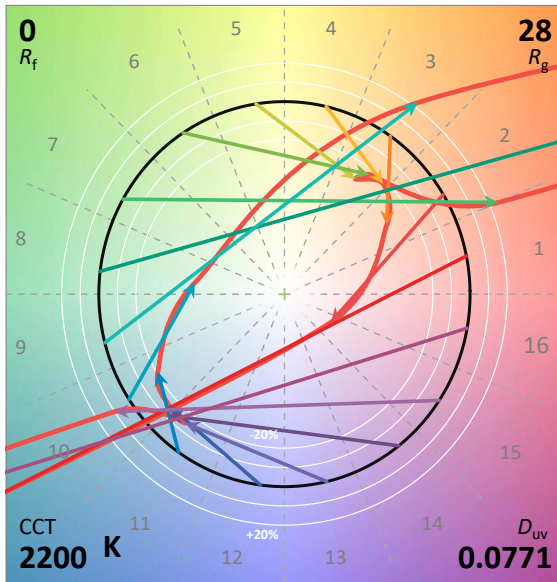
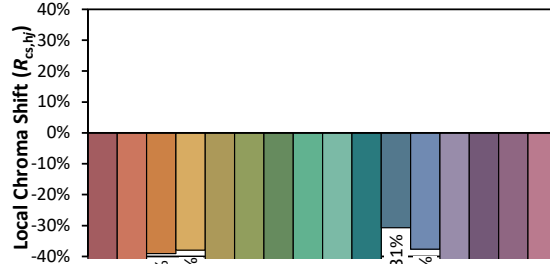
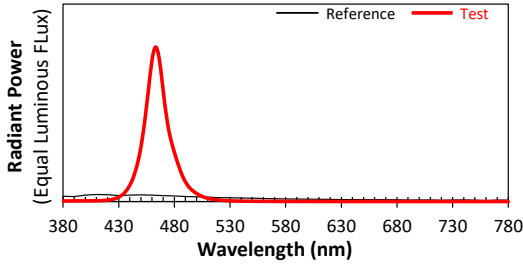
Date: 2022-08-08

Manufacturer:

SIRS Electronics Inc

Model:

DMX-5RGB-346X (BLUE)



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

x 0.1362  
y 0.0564  
u' 0.1600  
v' 0.1491

CIE 13.3-1995 (CRI)	
$R_a$	-50
$R_g$	-301

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



## 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  
Rosenburg, TX 77471  
United States

Catalog Number  
**DMX-5RGB-346X (All On)**

Order Number  
14430879  
Test Number  
14430879.09

Test Date

2022-08-05 - 2022-08-11

Prepared By

Cordaryl Cousar, Technician

Approved By

Jeffrey Lockner, Staff Engineer

The results contained in this report pertain only to the tested sample.  
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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.



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

Testing was performed in a 2-meter integrating sphere using the  $4\pi$  geometry method.

Absorption correction was employed for Sphere measurement



**Luminaire Description:** RGB LED strip on formed aluminum, clear silicone lens enclosure  
**Lamp:** 11 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One meanwell GST60A05-P1J driver

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 12.50 in.  
Luminous Width: 0.5000 in.  
Luminous Height: 0.25 in.

**Summary of Results**

**Integrating Sphere**

Luminous Flux: 86.92 Lumens  
Efficacy: 22.89 lm/w  
CCT: 22000 K  
CRI (Ra): 35.0

**Distribution**

Total Luminaire Output: 85.90 Lumens  
Luminaire Efficacy: 22.6 lm/w  
Maximum Candela: 31 Candela

**Electrical Data at 120 VAC**

Test Temperature: 25.1 °C  
Voltage: 120.0 VAC  
Current: 0.08018 A  
Power: 3.798 W  
Power Factor: 0.395  
Frequency: 60 Hz  
Current THD: 185 %



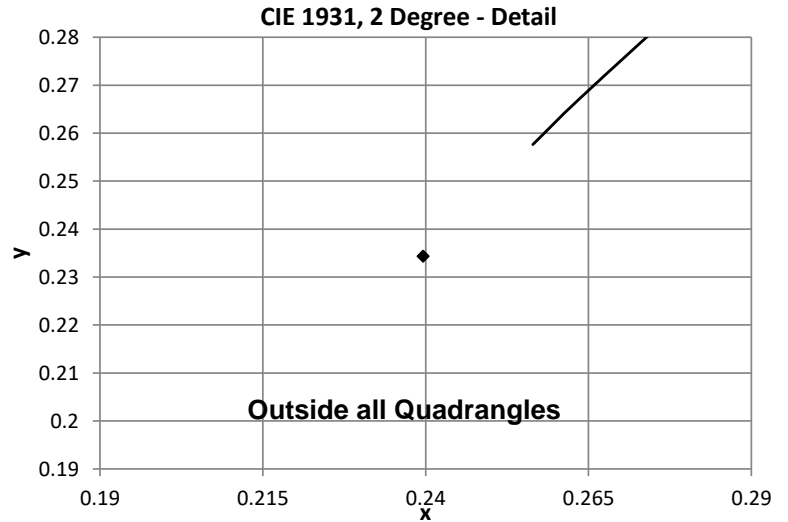
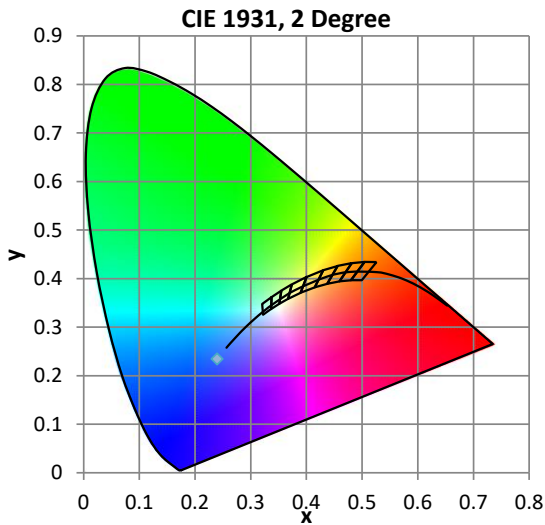
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.08018 A	3.798 W	0.395	60 Hz	185 %

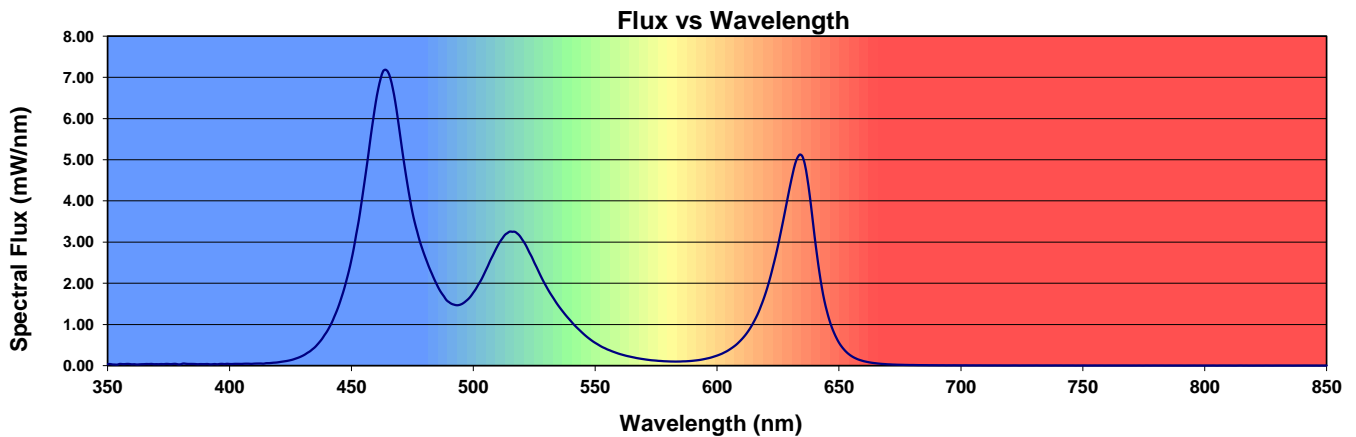
### Summary of Results

<b>Total Output:</b>	87 Lumens	<b>Chromaticity (x):</b>	0.2396
<b>Efficacy:</b>	22.9 lm/w	<b>Chromaticity (y):</b>	0.2344
<b>CCT:</b>	22000 K	<b>Chromaticity (u'):</b>	0.1797
<b>CRI (Ra):</b>	35.0	<b>Chromaticity (v'):</b>	0.3955
<b>CRI (R9):</b>	-266.7	<b>TM-30 Rf:</b>	48
<b>Peak Wavelength:</b>	464 nm	<b>TM-30 Rg:</b>	104
<b>Dominant Wavelength:</b>	476 nm	<b>TM-30 Rcs,h1:</b>	46%
<b>S/P Ratio:</b>	4.43	<b>Duv:</b>	0.0004
<b>M/P Ratio:</b>	2.22 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
35.0	17.4	41.7	60.5	44.9	39.6	38.8	52.6	-15.7	-266.7	-44.0	32.9	43.9	18.3	74.2	-8.5





## Distribution - Goniophotometer

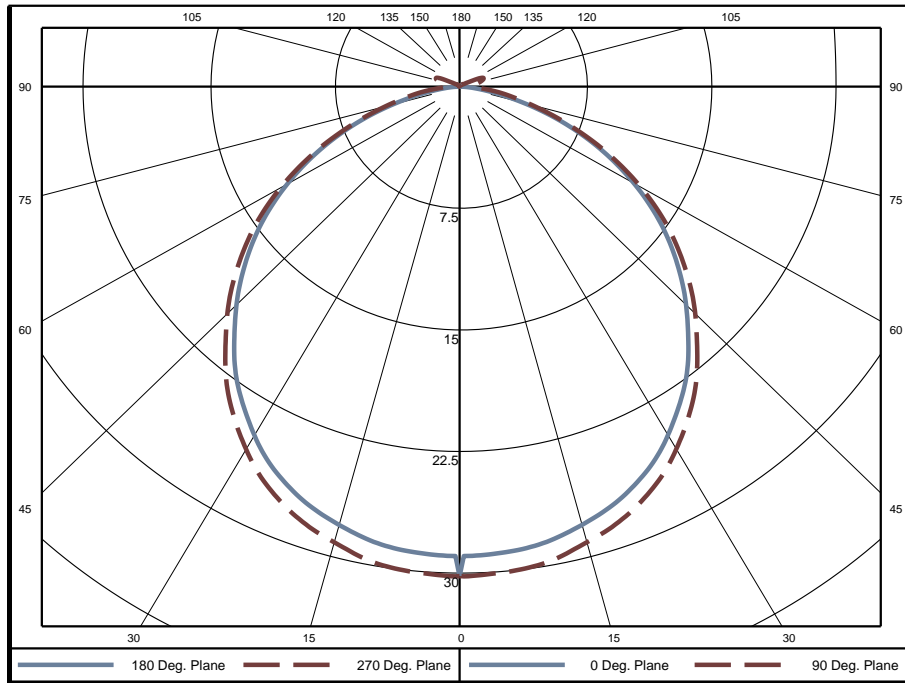
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1 °C	120.1 VAC	0.07605 A	3.797 W	0.416	60 Hz	172 %

### Summary of Results

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	85.90 Lumens
0-180: 1.23	<b>Luminaire Efficacy:</b>	22.6 lm/w
90-270: 1.27	<b>Maximum Candela:</b>	31 Candela
<b>Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)</b>	<b>Endwise:</b>	20.9
<b>Crosswise:</b> 19		

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.720	0.8%	60-65	5.449	6.3%	120-125	0.083	0.1%
5-10	2.143	2.5%	65-70	4.265	5.0%	125-130	0.064	0.1%
10-15	3.496	4.1%	70-75	2.987	3.5%	130-135	0.045	0.1%
15-20	4.743	5.5%	75-80	1.833	2.1%	135-140	0.029	0.0%
20-25	5.844	6.8%	80-85	0.988	1.2%	140-145	0.016	0.0%
25-30	6.733	7.8%	85-90	0.455	0.5%	145-150	0.014	0.0%
30-35	7.353	8.6%	90-95	0.314	0.4%	150-155	0.013	0.0%
35-40	7.718	9.0%	95-100	0.352	0.4%	155-160	0.012	0.0%
40-45	7.766	9.0%	100-105	0.417	0.5%	160-165	0.010	0.0%
45-50	7.586	8.8%	105-110	0.432	0.5%	165-170	0.008	0.0%
50-55	7.140	8.3%	110-115	0.301	0.4%	170-175	0.005	0.0%
55-60	6.425	7.5%	115-120	0.142	0.2%	175-180	0.002	0.0%

Zone	Lumens	% of Luminaire
0-40	39	45.1%
0-60	68	78.8%
0-90	84	97.4%
90-180	2	2.6%





**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	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19	30.19
5	28.86	30.18	30.18	30.46	30.08	30.46	30.18	30.18	28.86	30.18	30.18	30.46	30.08	30.46	30.18	30.18
10	28.59	29.90	29.90	30.18	29.80	30.18	29.90	29.90	28.59	29.90	29.90	30.18	29.80	30.18	29.90	29.90
15	28.02	29.27	29.25	29.51	29.12	29.51	29.25	29.27	28.02	29.27	29.25	29.51	29.12	29.51	29.25	29.27
20	27.30	28.50	28.49	28.75	28.38	28.75	28.49	28.50	27.30	28.50	28.49	28.75	28.38	28.75	28.49	28.50
25	26.27	27.41	27.40	27.66	27.30	27.66	27.40	27.41	26.27	27.41	27.40	27.66	27.30	27.66	27.40	27.41
30	24.86	25.93	25.92	26.18	25.83	26.18	25.92	25.93	24.86	25.93	25.92	26.18	25.83	26.18	25.92	25.93
35	23.20	24.21	24.18	24.42	24.10	24.42	24.18	24.21	23.20	24.21	24.18	24.42	24.10	24.42	24.18	24.21
40	21.27	22.23	22.15	22.35	22.05	22.35	22.15	22.23	21.27	22.23	22.15	22.35	22.05	22.35	22.15	22.23
45	19.15	20.05	19.93	20.13	19.88	20.13	19.93	20.05	19.15	20.05	19.93	20.13	19.88	20.13	19.93	20.05
50	16.96	17.76	17.63	17.83	17.61	17.83	17.63	17.76	16.96	17.76	17.63	17.83	17.61	17.83	17.63	17.76
55	14.65	15.35	15.21	15.37	15.20	15.37	15.21	15.35	14.65	15.35	15.21	15.37	15.20	15.37	15.21	15.35
60	12.11	12.69	12.59	12.70	12.55	12.70	12.59	12.69	12.11	12.69	12.59	12.70	12.55	12.70	12.59	12.69
65	9.47	9.94	9.86	9.91	9.77	9.91	9.86	9.94	9.47	9.94	9.86	9.91	9.77	9.91	9.86	9.94
70	6.76	7.11	7.05	7.09	7.03	7.09	7.05	7.11	6.76	7.11	7.05	7.09	7.03	7.09	7.05	7.11
75	4.11	4.41	4.47	4.63	4.62	4.63	4.47	4.41	4.11	4.41	4.47	4.63	4.62	4.63	4.47	4.41
80	1.98	2.31	2.55	2.80	2.86	2.80	2.55	2.31	1.98	2.31	2.55	2.80	2.86	2.80	2.55	2.31
85	0.70	0.98	1.30	1.46	1.47	1.46	1.30	0.98	0.70	0.98	1.30	1.46	1.47	1.46	1.30	0.98
90	0.05	0.36	0.67	0.86	0.90	0.86	0.67	0.36	0.05	0.36	0.67	0.86	0.90	0.86	0.67	0.36
95	0.02	0.37	0.68	0.83	0.87	0.83	0.68	0.37	0.02	0.37	0.68	0.83	0.87	0.83	0.68	0.37
100	0.02	0.40	0.94	1.03	1.01	1.03	0.94	0.40	0.02	0.40	0.94	1.03	1.01	1.03	0.94	0.40
105	0.02	0.15	1.17	1.38	1.33	1.38	1.17	0.15	0.02	0.15	1.17	1.38	1.33	1.38	1.17	0.15
110	0.03	0.11	0.59	1.48	1.52	1.48	0.59	0.11	0.03	0.11	0.59	1.48	1.52	1.48	0.59	0.11
115	0.03	0.05	0.26	0.75	1.10	0.75	0.26	0.05	0.03	0.05	0.26	0.75	1.10	0.75	0.26	0.05
120	0.03	0.03	0.22	0.36	0.49	0.36	0.22	0.03	0.03	0.03	0.22	0.36	0.49	0.36	0.22	0.03
125	0.03	0.03	0.18	0.27	0.28	0.27	0.18	0.03	0.03	0.03	0.18	0.27	0.28	0.27	0.18	0.03
130	0.04	0.04	0.10	0.23	0.26	0.23	0.10	0.04	0.04	0.04	0.10	0.23	0.26	0.23	0.10	0.04
135	0.04	0.04	0.04	0.18	0.22	0.18	0.04	0.04	0.04	0.04	0.04	0.18	0.22	0.18	0.04	0.04
140	0.04	0.04	0.04	0.05	0.12	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.12	0.05	0.04	0.04
145	0.05	0.05	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.05	0.05
150	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
155	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.06
160	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.06
165	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.07
170	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07
175	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07
180	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

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

Horizontal Angle (Degrees)

	0	45	90
0	7486	7486	7486
45	6584	5111	4648
55	6159	4313	3835
65	5329	3233	2766
75	3665	1806	1545
85	1626	713	621

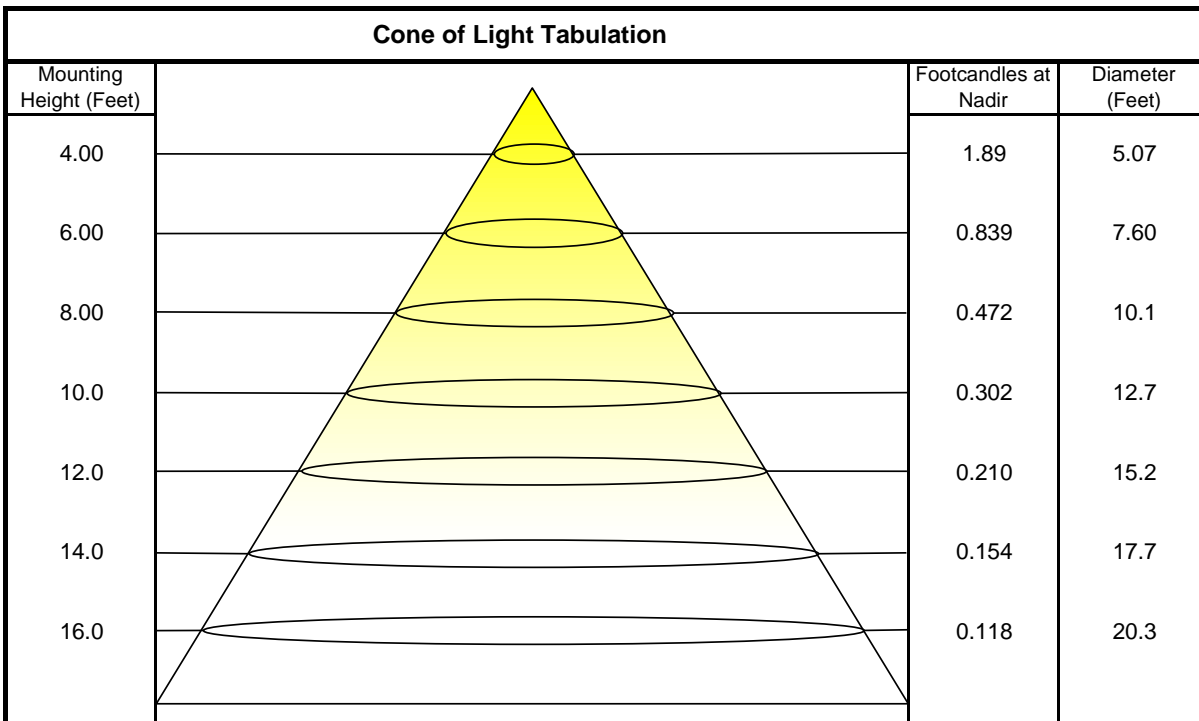


### Coefficients of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	108	104	100	96	105	101	98	94	97	93	91	92	90	87	88	86	84	82
2	99	91	84	79	96	89	83	77	85	80	75	81	77	73	78	74	71	69
3	90	80	72	65	88	78	71	65	75	68	63	72	66	62	69	64	60	58
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	61	56	52	50
5	76	63	54	48	74	62	54	48	60	52	47	57	51	46	55	50	45	43
6	70	57	48	42	68	56	48	42	54	46	41	52	45	40	50	44	40	38
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	46	40	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

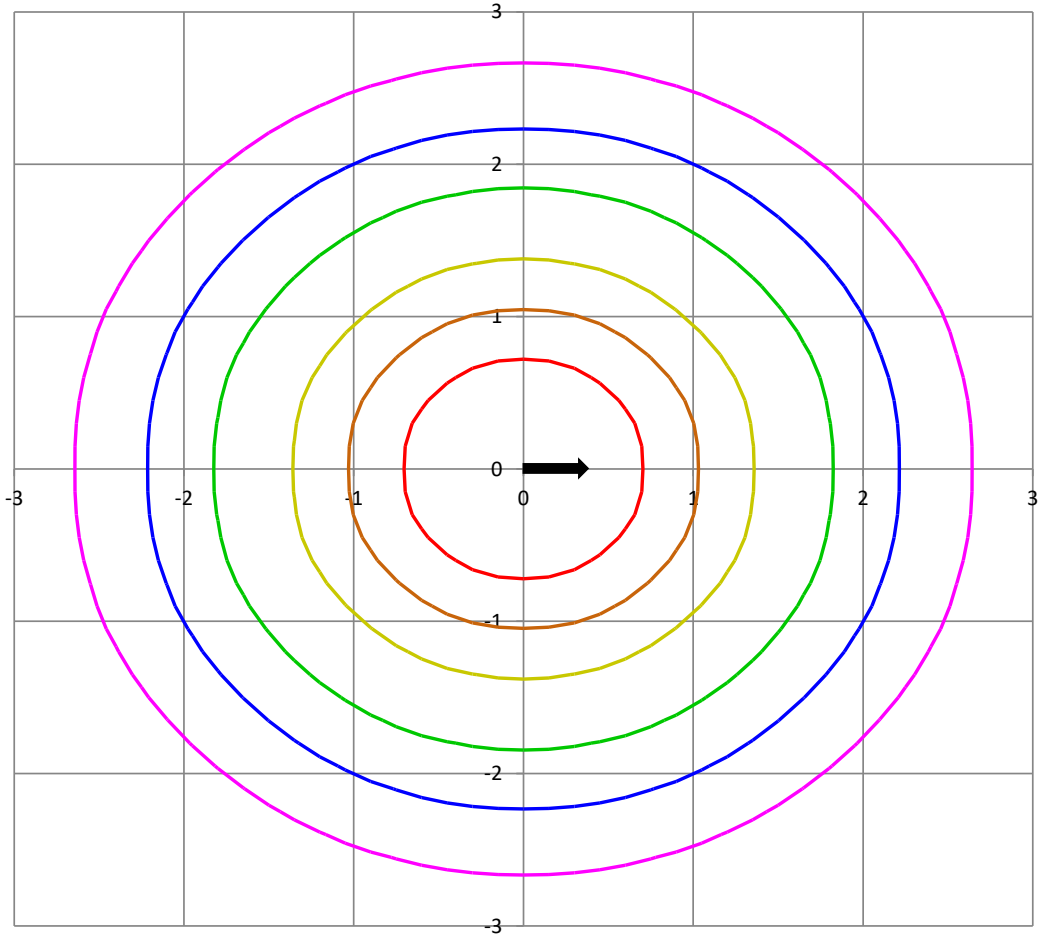
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	30.19 Candela
Central Cone Intensity:	30 Candela
Beam Flux:	61.6 Lumens
Beam Angle (0-180):	108.2 Degrees
Beam Angle (90-270):	110.4 Degrees
Field Angle (0-180):	154.7 Degrees
Field Angle (90-270):	158.9 Degrees



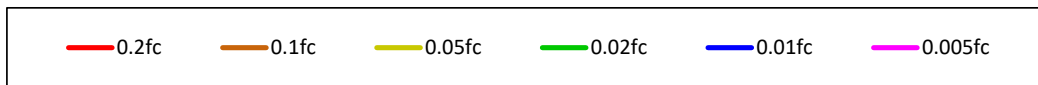


### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height



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

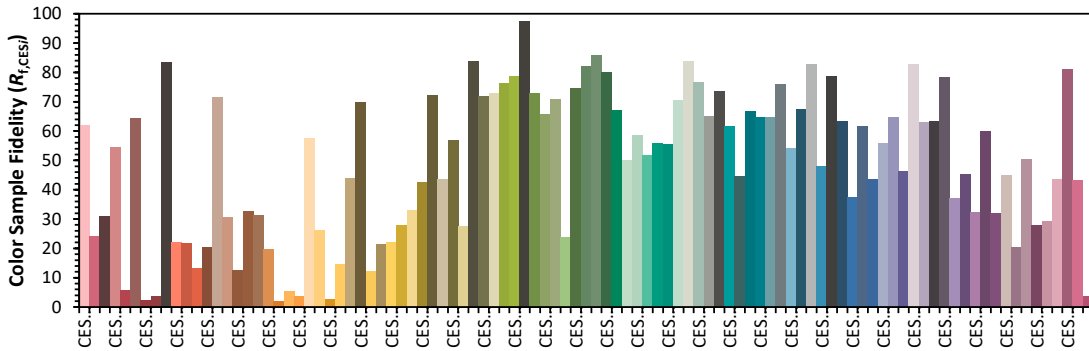
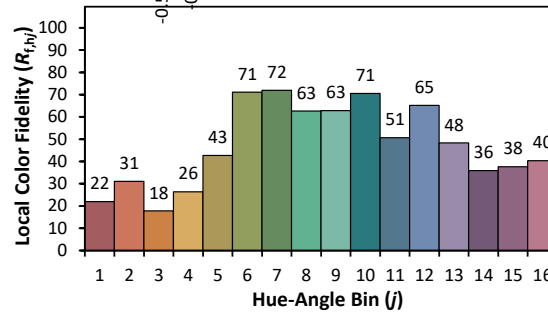
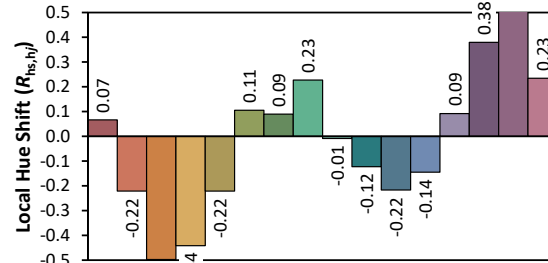
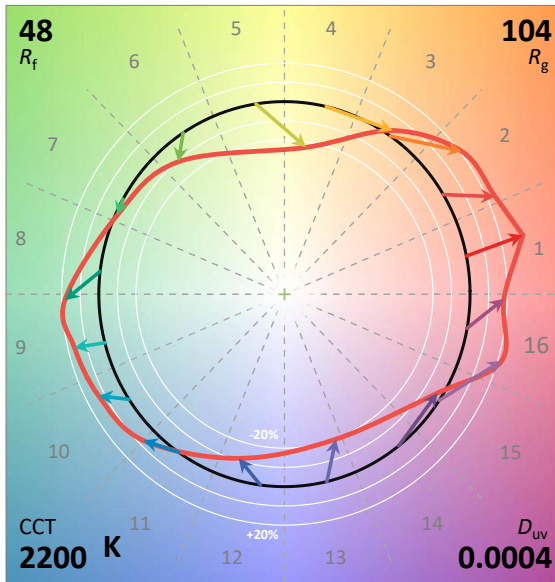
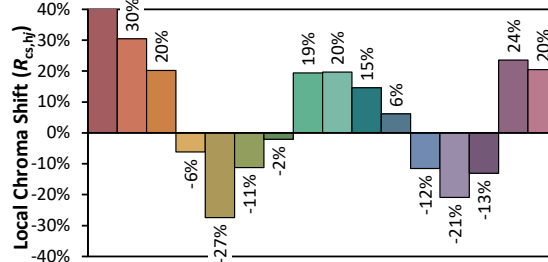
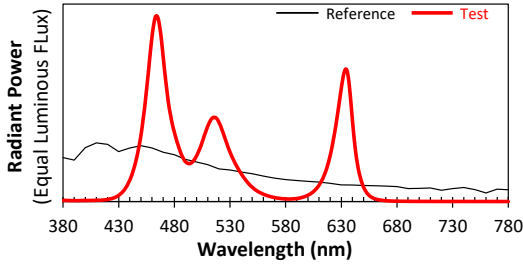
Date: 2022-08-05

Manufacturer:

SIRS Electronics Inc

Model:

DMX-5RGB-346X (All On)



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

x 0.2396  
y 0.2344  
u' 0.1797  
v' 0.3955

CIE 13.3-1995 (CRI)	
R <sub>a</sub>	35
R <sub>g</sub>	-267

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