

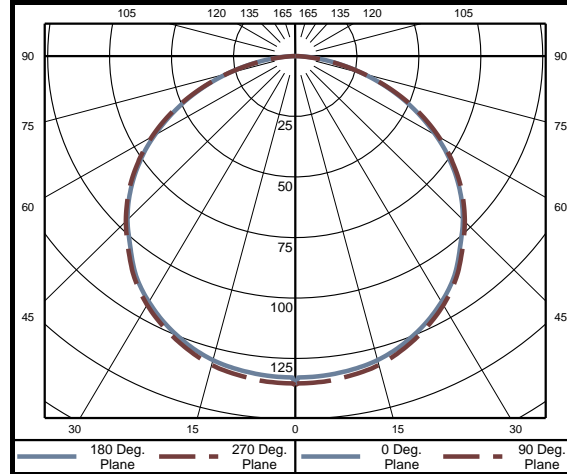


**SIRS Electronics Inc**  
 Catalog Number  
**ACUHUE-12CV55-4016 - ALL COLORS**



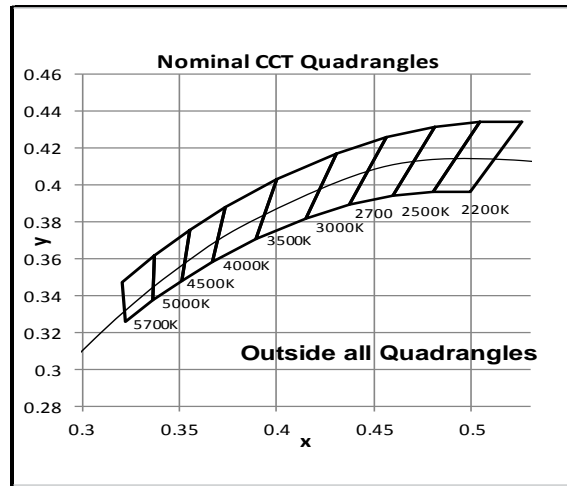
Electrical Test Conditions						
Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	12.01 VDC	0.6751 A	8.105 W	N/A	N/A	N/A

Summary of Results	
Total Lumen Output	427.5 Lumens
Luminaire Efficacy	54.6 lm/w
Maximum Candela	137 Candela
CCT	14357 K
CRI	73.0
Duv	0.0027
TM-30 Rf	0.0
TM-30 Rg	0.0



Intensity (Candlepower) Summary		
Angle	Mean CP	Lumens
0	136	
5	136	13
10	135	
15	133	38
20	130	
25	126	58
30	121	
35	115	72
40	107	
45	99	76
50	90	
55	80	71
60	69	
65	56	55
70	43	
75	30	32
80	17	
85	7	8
90	0	

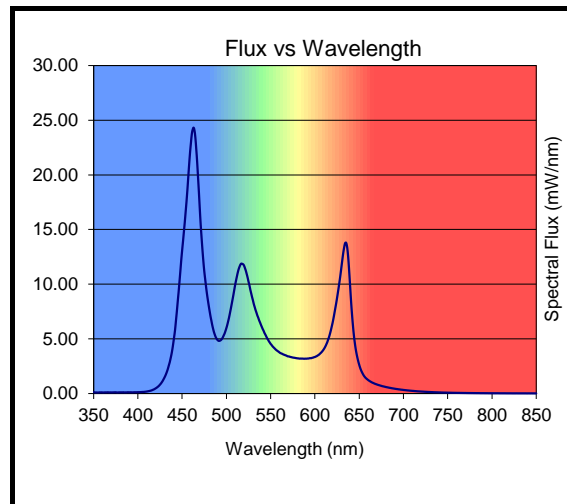
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	108	25.7%
0-40	180	42.6%
0-60	327	77.5%
0-90	423	100.0%
40-90	243	57.4%
60-90	95	22.5%
90-180	0	0.0%
0-180	423	100.0%



Spacing Criteria	
0-180	1.29
90-270	1.29

Color Rendering Index Details	
Ra (CRI)	73.0
R1	64
R2	78.5
R3	88.8
R4	73.9
R5	74.7
R6	78.3
R7	77.6
R8	48.3
R9	-67.3
R10	51.1
R11	66.8
R12	66.7
R13	65
R14	90.5

Average Luminance cd/m <sup>2</sup>	
Vertical Angle	Horizontal Angle 0°
0	32430
45	32500
55	32190
65	30680
75	26930
85	19810



Cone of Light Tabulation		
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
4.00	8.50	5.27
6.00	3.78	7.91
8.00	2.12	10.5
10.0	1.36	13.2
12.0	0.944	15.8
14.0	0.694	18.4
16.0	0.531	21.1

Chromaticity Coordinates	
Chromaticity (x)	0.2630
Chromaticity (y)	0.2717
Chromaticity (u)	0.1835
Chromaticity (v)	0.2843
Chromaticity (u')	0.1835
Chromaticity (v')	0.4264
Duv	0.0027

Testing was performed in accordance with LM-79-08  
 The results contained in this summary pertain only to report #11714176.14



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



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For  
**SIRS Electronics Inc**

4705 Hwy 36 S  
STE 5  
Rosenberg, TX 77471  
United States

Catalog Number  
**ACUHUE-12CV55-4016 - RED**

Order Number  
11714176  
Test Number  
11714176.10

Test Date

2017-04-13

Prepared By

Kevin Rodriguez, Technician

Approved By

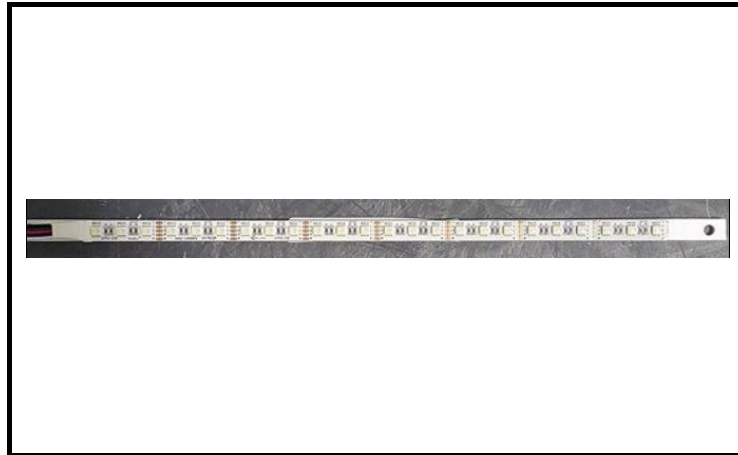
Justin Benner, Project Handler

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.



**Luminaire Description:** Formed aluminum backing plate, LED strip with no lens enclosure - 1' length (304.8mm)  
**Lamp:** 24 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** None

**Luminaire**



**Summary of Results**

Radiant Flux:	301.5 mW
Luminous Flux:	60.47 lm
Luminaire Efficacy:	30.1 lm/W
Chromaticity (x):	0.6938
Chromaticity (y):	0.3054
Chromaticity (u):	0.5259
Chromaticity (v):	0.3472
Duv:	0.0064

**Test Conditions**

Test Temperature:	25.1 °C
Voltage:	12.01 VDC
Current:	0.1674 A
Power:	2.010 W

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



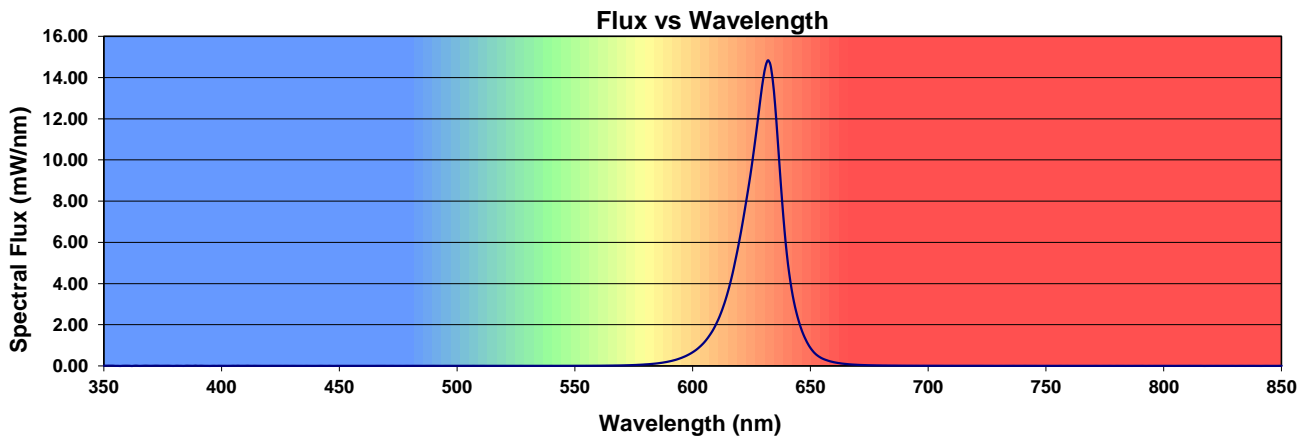
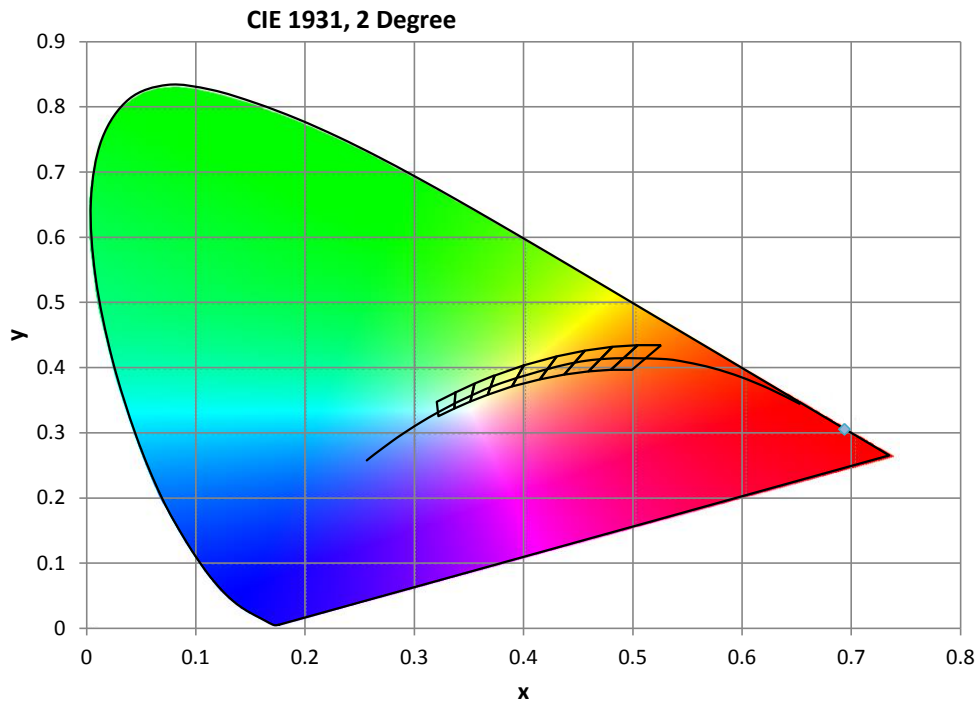
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	12.01 VDC	0.1674 A	2.010 W	N/A	N/A	N/A

### Summary of Results

<b>Total Output:</b>	60 Lumens	<b>Chromaticity (x):</b>	0.6938
<b>Efficacy:</b>	30.1 lm/w	<b>Chromaticity (y):</b>	0.3054
<b>Peak Wavelength:</b>	632 nm	<b>Chromaticity (u'):</b>	0.5259
<b>Dominant Wavelength:</b>	621.6 nm	<b>Chromaticity (v'):</b>	0.5208
<b>S/P Ratio:</b>	0.059	<b>Duv:</b>	0.0064





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



## Integrating Sphere Test Report

### Relevant Standards

IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

### Prepared For

## SIRS Electronics Inc

4705 Hwy 36 S  
STE 5  
Rosenberg, TX 77471  
United States

### Catalog Number

**ACUHUE-12CV55-4016 - GREEN**

Order Number

11714176

Test Number

11714176.11

Test Date

2017-04-14

Prepared By

Kevin Rodriguez, Technician

Approved By

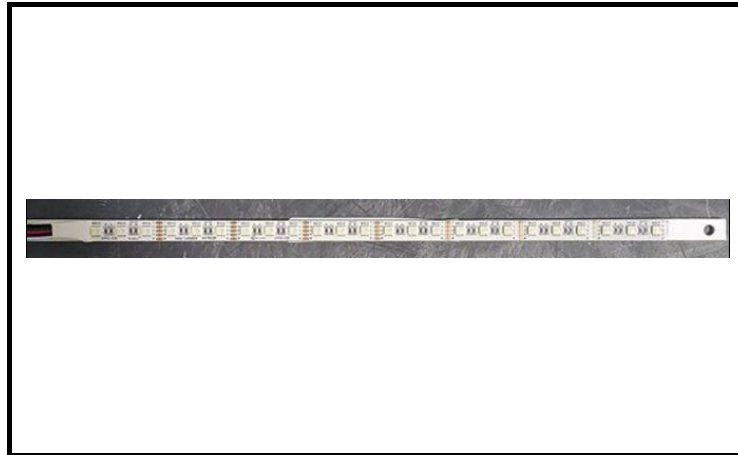
Justin Benner, Project Handler

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.



**Luminaire Description:** Formed aluminum backing plate, LED strip with no lens enclosure - 1' length (304.8mm)  
**Lamp:** 24 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** None

**Luminaire**



**Summary of Results**

Radiant Flux:	356.8 mW
Luminous Flux:	163.1 lm
Luminaire Efficacy:	88.4 lm/W
Chromaticity (x):	0.1417
Chromaticity (y):	0.7269
Chromaticity (u):	0.0496
Chromaticity (v):	0.3813
Duv:	0.1647

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	12.00 VDC
Current:	0.1538 A
Power:	1.844 W

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



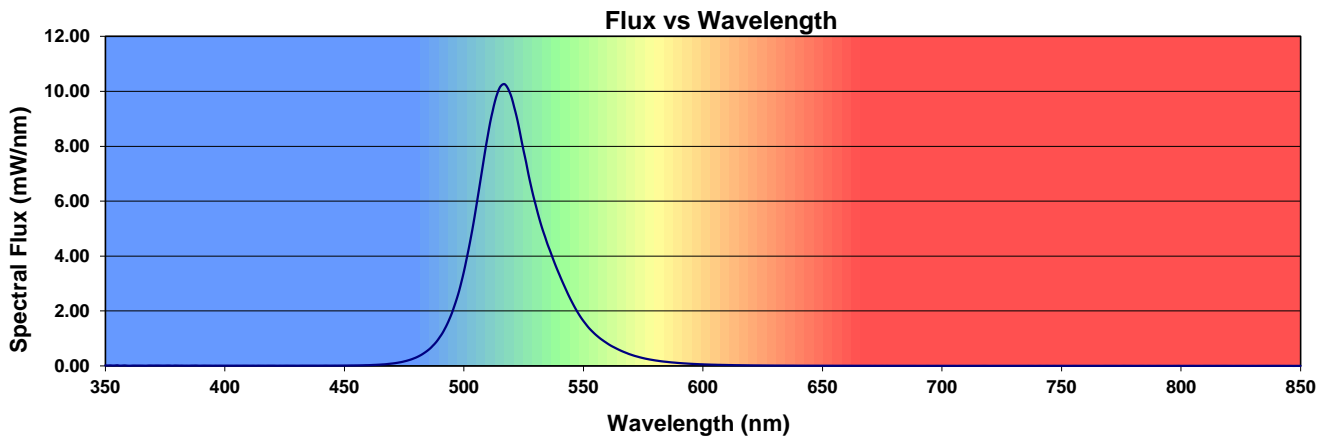
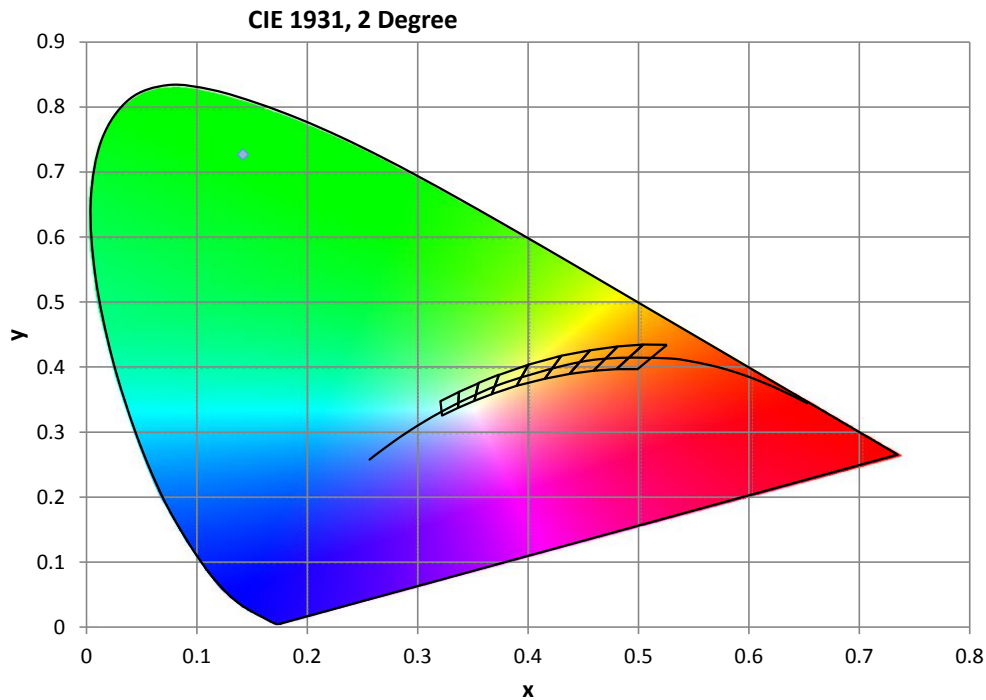
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	12.00 VDC	0.1538 A	1.844 W	N/A	N/A	N/A

### Summary of Results

<b>Total Output:</b>	163 Lumens	<b>Chromaticity (x):</b>	0.1417
<b>Efficacy:</b>	88.4 lm/w	<b>Chromaticity (y):</b>	0.7269
<b>Peak Wavelength:</b>	516.6 nm	<b>Chromaticity (u'):</b>	0.0496
<b>Dominant Wavelength:</b>	522 nm	<b>Chromaticity (v'):</b>	0.5719
<b>S/P Ratio:</b>	3.15	<b>Duv:</b>	0.1647





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



## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For  
**SIRS Electronics Inc**

4705 Hwy 36 S  
STE 5  
Rosenberg, TX 77471  
United States

Catalog Number  
**ACUHUE-12CV55-4016 - BLUE**

Order Number  
11714176  
Test Number  
11714176.12

Test Date

2017-04-14

Prepared By

Kevin Rodriguez, Technician

Approved By

Justin Benner, Project Handler

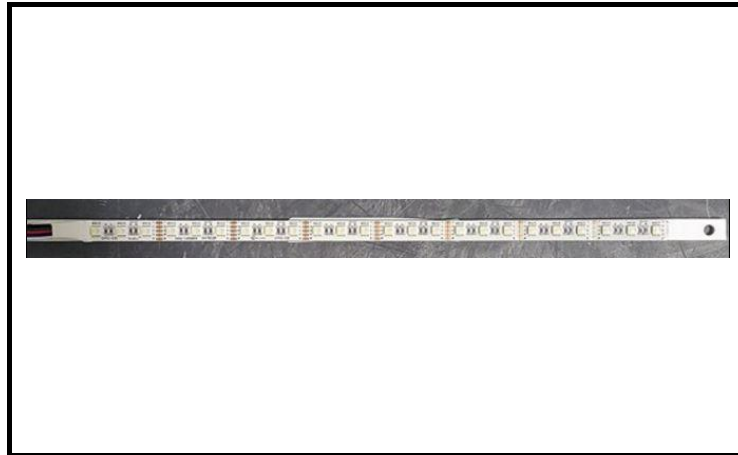
The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.  
This report must not be used by the client to claim product certification, approval, or endorsement by  
NVLAP, NIST, or any agency of the Federal Government.





**Luminaire Description:** Formed aluminum backing plate, LED strip with no lens enclosure - 1' length (304.8mm)  
**Lamp:** 24 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** None

**Luminaire**



**Summary of Results**

Radiant Flux:	587.4 mW
Luminous Flux:	35.36 lm
Luminaire Efficacy:	17.4 lm/W
Chromaticity (x):	0.1370
Chromaticity (y):	0.0511
Chromaticity (u):	0.1641
Chromaticity (v):	0.0918
Duv:	0.0334

**Test Conditions**

Test Temperature:	24.9 °C
Voltage:	12.00 VDC
Current:	0.1691 A
Power:	2.028 W

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



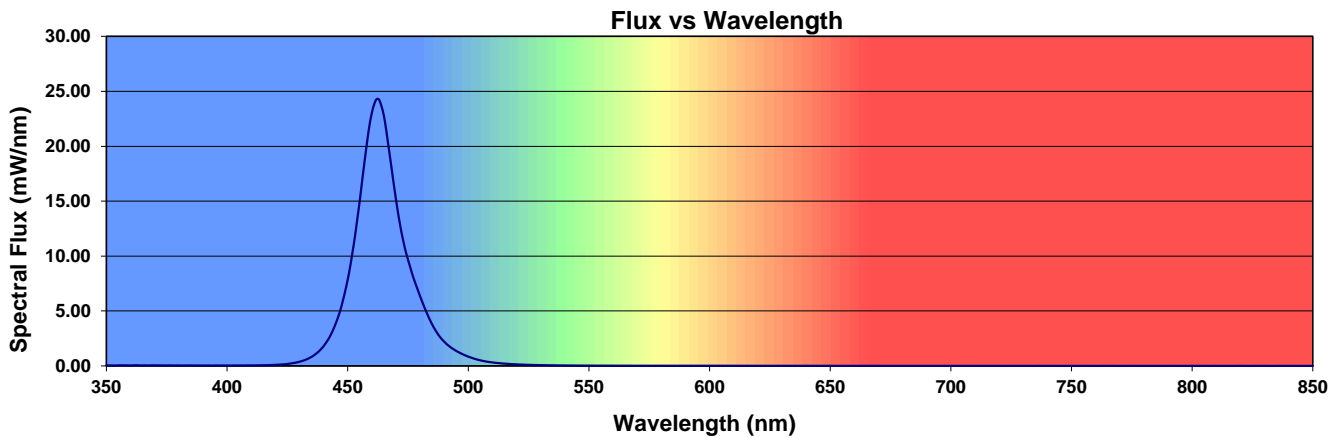
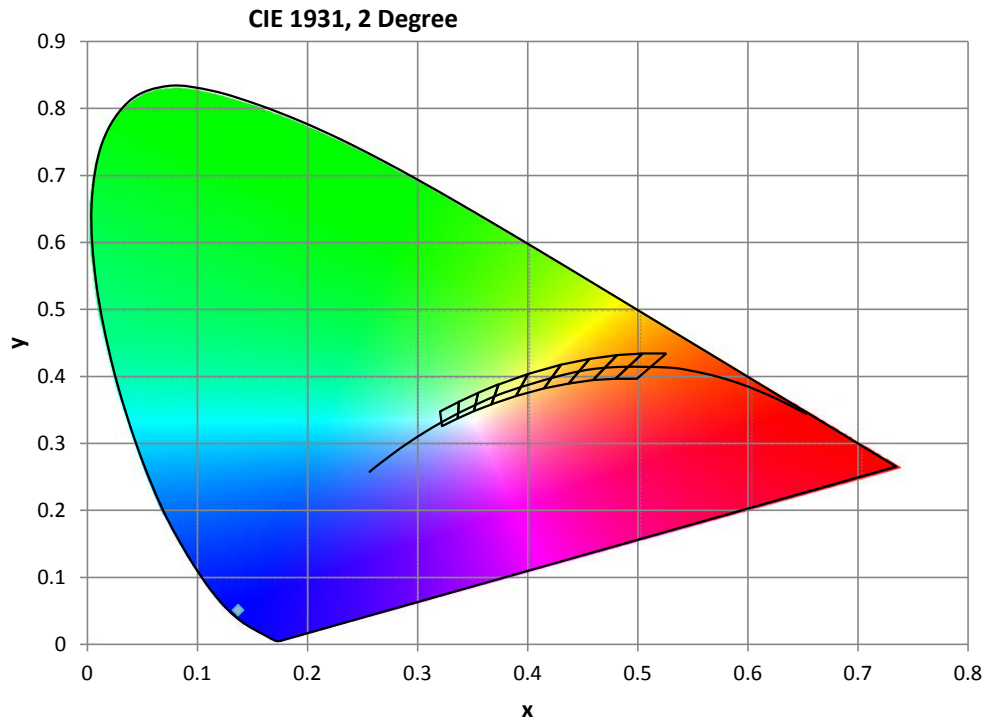
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	12.00 VDC	0.1691 A	2.028 W	N/A	N/A	N/A

### Summary of Results

<b>Total Output:</b>	35 Lumens	<b>Chromaticity (x):</b>	0.1370
<b>Efficacy:</b>	17.4 lm/w	<b>Chromaticity (y):</b>	0.0511
<b>Peak Wavelength:</b>	462.4 nm	<b>Chromaticity (u'):</b>	0.1641
<b>Dominant Wavelength:</b>	466.5 nm	<b>Chromaticity (v'):</b>	0.1378
<b>S/P Ratio:</b>	17.31	<b>Duv:</b>	0.0334





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



## Integrating Sphere Test Report

### Relevant Standards

IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

### Prepared For

## SIRS Electronics Inc

4705 Hwy 36 S  
STE 5  
Rosenberg, TX 77471  
United States

### Catalog Number

**ACUHUE-12CV55-4016 - WHITE**

Order Number

11714176

Test Number

11714176.13

Test Date

2017-04-14

Prepared By

Kevin Rodriguez, Technician

Approved By

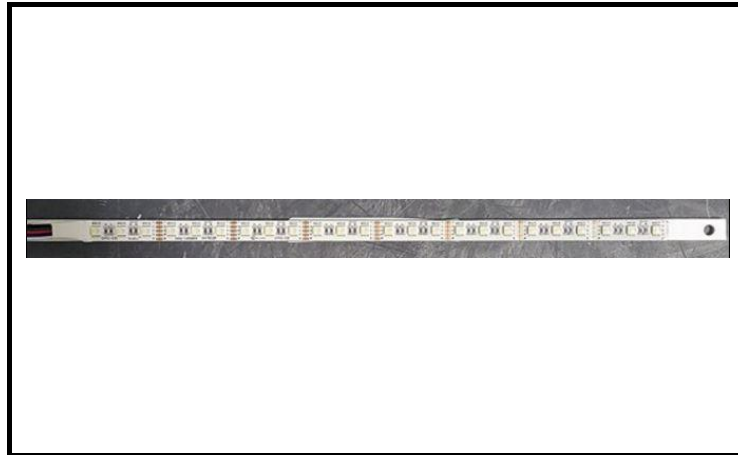
Justin Benner, Project Handler

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.



**Luminaire Description:** Formed aluminum backing plate, LED strip with no lens enclosure - 1' length (304.8mm)  
**Lamp:** 24 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** None

**Luminaire**



**Summary of Results**

Radiant Flux:	623.5 mW
Luminous Flux:	198.5 lm
Luminaire Efficacy:	105.0 lm/W
CCT:	5523 K
CRI (Ra):	82.5
Chromaticity (x):	0.3318
Chromaticity (y):	0.3460
Chromaticity (u):	0.2046
Chromaticity (v):	0.3200
Duv:	0.0027

**Test Conditions**

Test Temperature:	24.3 °C
Voltage:	12.01 VDC
Current:	0.1574 A
Power:	1.890 W

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



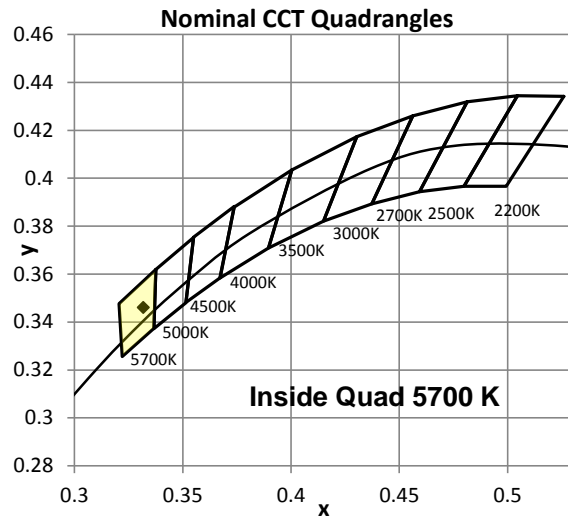
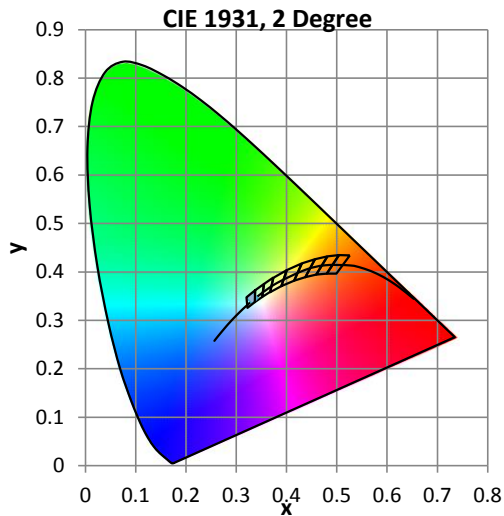
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	12.01 VDC	0.1574 A	1.890 W	N/A	N/A	N/A

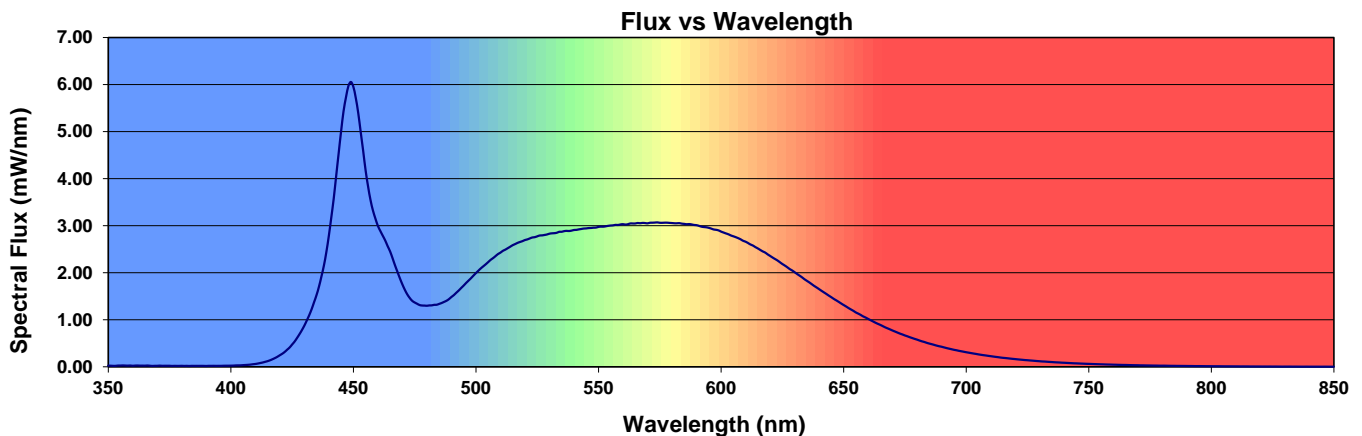
### Summary of Results

<b>Total Output:</b>	199 Lumens	<b>Chromaticity (x):</b>	0.3318
<b>Efficacy:</b>	105.0 lm/w	<b>Chromaticity (y):</b>	0.3460
<b>CCT:</b>	5523 K	<b>Chromaticity (u'):</b>	0.2046
<b>CRI (Ra):</b>	82.5	<b>Chromaticity (v'):</b>	0.4799
<b>CRI (R9):</b>	5.7	<b>TM-30 R<sub>f</sub>:</b>	81.1
<b>Peak Wavelength:</b>	449 nm	<b>TM-30 R<sub>g</sub>:</b>	96.2
<b>Dominant Wavelength:</b>	548.4 nm	<b>Duv:</b>	0.0027
<b>S/P Ratio:</b>	2.048		



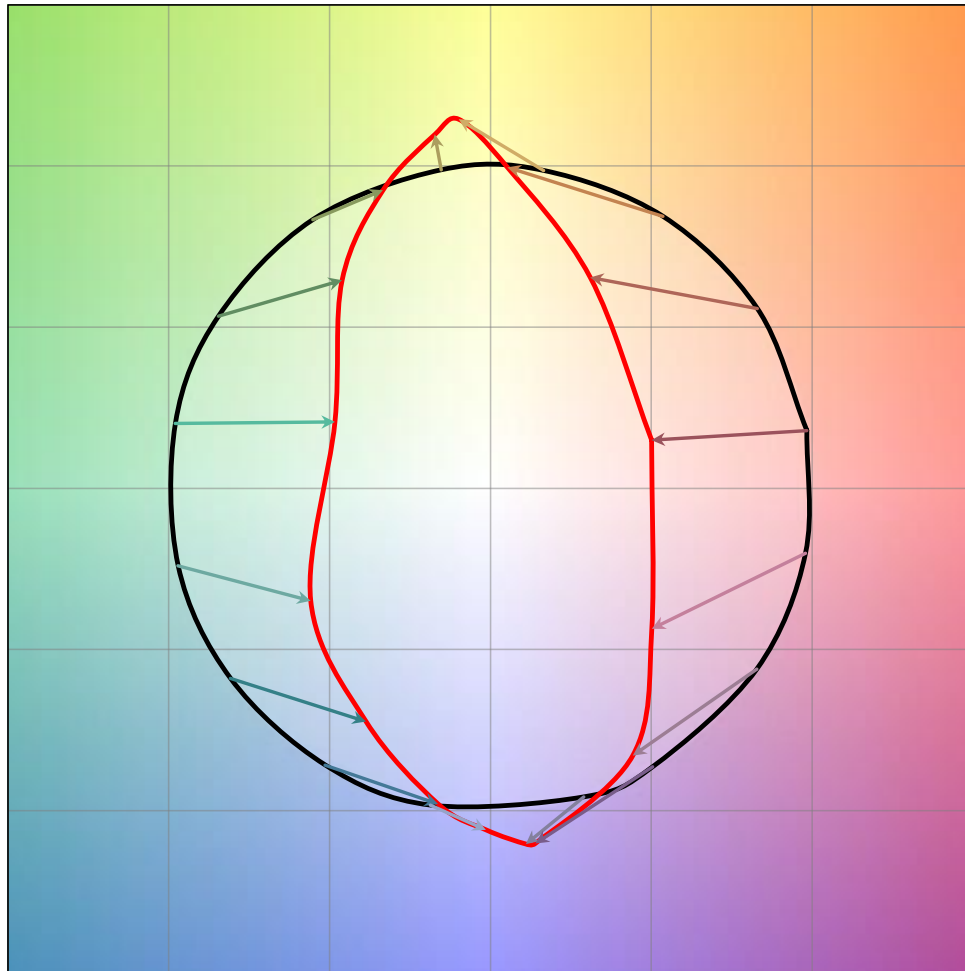
### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.5	80.9	86.7	90.6	83.2	81.8	81.5	87.1	68.3	5.7	68.3	82.6	60.4	82.3	95.0





COLOR VECTOR GRAPHIC



— Reference Source      — Test Source

HUE ANGLE ANALYSIS															
Hue Bin (j)	Count (m)	Average of Test SPD		Average of Ref SPD		Average ΔE	Average θ	Color Distortion Icon Parameters						R <sub>thj</sub>	Change of Chroma
		a'	b'	a'	b'			da_relative	db_relative	path_x ref	path_y ref	path_x test	path_y test		
1	7	21.19	4.31	24.20	5.32	3.530	0.21	-0.12	-0.04	0.98	0.21	0.86	0.17	73	-13%
2	6	16.57	12.27	18.84	12.12	2.409	0.60	-0.10	0.01	0.82	0.57	0.72	0.57	82	-8%
3	8	10.67	21.42	13.80	20.66	3.360	0.95	-0.13	0.03	0.58	0.82	0.45	0.85	75	-4%
4	8	2.00	22.76	4.00	22.14	2.225	1.40	-0.09	0.03	0.17	0.99	0.08	1.01	83	1%
5	9	-2.93	20.35	-1.75	19.98	1.851	1.69	-0.06	0.02	-0.12	0.99	-0.18	1.01	86	3%
6	8	-10.51	18.10	-10.19	17.37	1.050	2.10	-0.02	0.04	-0.51	0.86	-0.52	0.90	92	4%
7	5	-16.95	12.69	-17.80	12.24	1.108	2.55	0.04	0.02	-0.83	0.56	-0.79	0.58	92	-2%
8	5	-22.47	2.33	-24.22	2.20	1.852	3.06	0.07	0.01	-1.00	0.09	-0.92	0.09	86	-7%
9	7	-13.89	-3.91	-15.60	-3.17	2.026	-2.94	0.11	-0.05	-0.98	-0.20	-0.87	-0.25	85	-10%
10	5	-17.07	-13.30	-19.95	-11.55	3.559	-2.60	0.12	-0.08	-0.86	-0.52	-0.73	-0.59	73	-6%
11	9	-10.04	-21.39	-13.10	-19.10	3.954	-2.20	0.13	-0.10	-0.58	-0.81	-0.45	-0.91	70	1%
12	2	-2.26	-22.04	-3.40	-20.76	1.883	-1.74	0.05	-0.06	-0.17	-0.99	-0.11	-1.05	86	5%
13	6	2.17	-17.21	2.36	-15.70	1.901	-1.42	-0.01	-0.10	0.15	-0.99	0.14	-1.08	86	9%
14	3	12.39	-20.28	13.17	-18.31	2.393	-0.94	-0.03	-0.09	0.59	-0.81	0.55	-0.90	82	5%
15	6	11.45	-11.36	12.78	-8.09	3.866	-0.57	-0.09	-0.22	0.84	-0.54	0.75	-0.76	71	5%
16	5	21.30	-4.70	22.84	-3.33	2.213	-0.15	-0.07	-0.06	0.99	-0.15	0.92	-0.21	83	-5%



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



## Photometric Test Report

### Relevant Standards

IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

### Prepared For

## SIRS Electronics Inc

6101 N 23rd St  
STE K  
McAllen, TX 78504  
United States

### Catalog Number

**ACUHUE-12CV55-4016 - ALL COLORS**

Order Number

11714176

Test Number

11714176.14

### Test Date

2017-04-12 - 2017-04-19

### Prepared By

Kevin Rodriguez, Technician

### Approved By

Justin Benner, Project Handler

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.



## Table of Contents

<b>Summary of Results</b>	Page 3
<b>Integrating Sphere Results</b>	Page 4
<b>Distribution Results</b>	
Conditions / Summary of Results / Polar Plot / Zonal Lumens	Page 5
Candela Tabulation / Average Luminance	Page 6
Coefficients of Utilization / Cone of Light	Page 7
ISOFootcandle Plot	Page 8

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

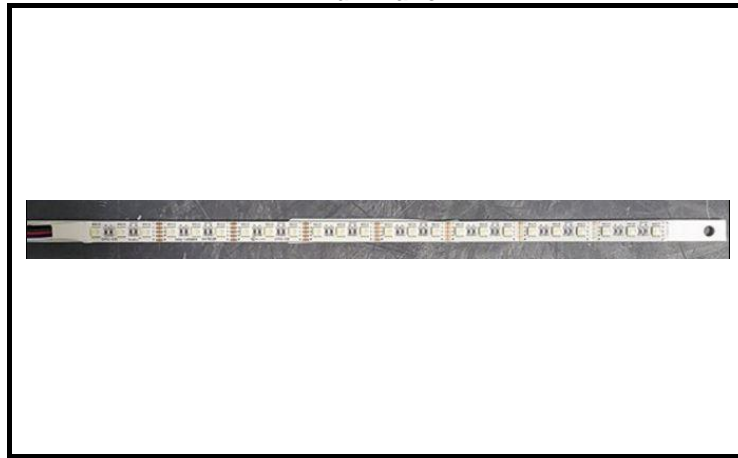
Testing was performed in a 2-meter integrating sphere using the  $4\pi$  geometry method.  
Absorption correction was employed for Sphere measurement





**Luminaire Description:** Formed aluminum backing plate, LED strip with no lens enclosure - 1' length (304.8mm)  
**Lamp:** 24 RGB LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** None

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 13.00 in.  
Luminous Width: 0.5000 in.

**Summary of Results**

**Integrating Sphere**

Luminous Flux: 428 Lumens  
Efficacy: 54.6 lm/w  
CCT: 14357 K  
CRI (Ra): 73.0

**Distribution**

Total Luminaire Output: 422.6 Lumens  
Luminaire Efficacy: 52.1 lm/w  
Maximum Candela: 137 Candela

**Electrical Data at 12 VDC**

Test Temperature: 25.0 °C  
Voltage: 12.02 VDC  
Current: 0.6518 A  
Power: 7.830 W



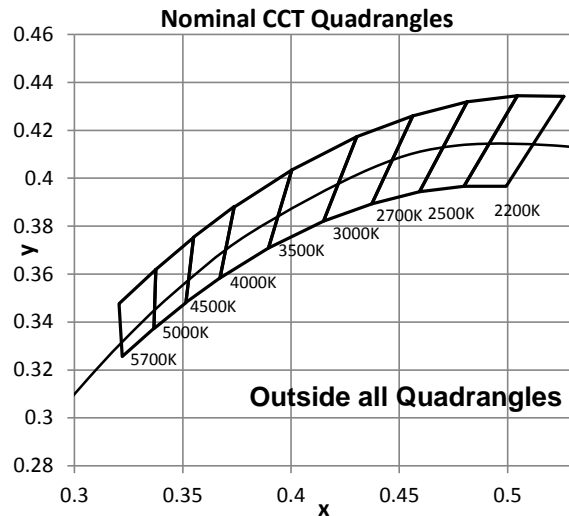
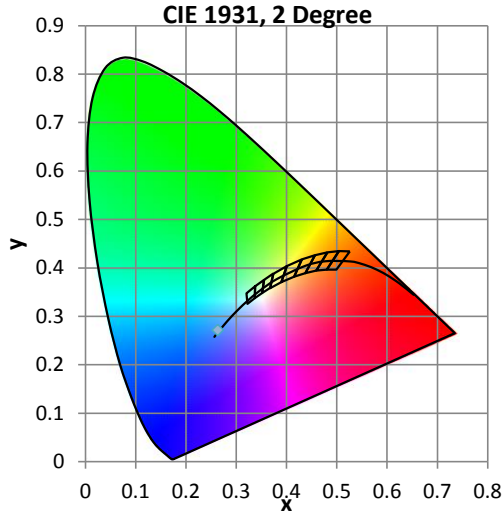
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	12.02 VDC	0.6518 A	7.830 W	N/A	N/A	N/A

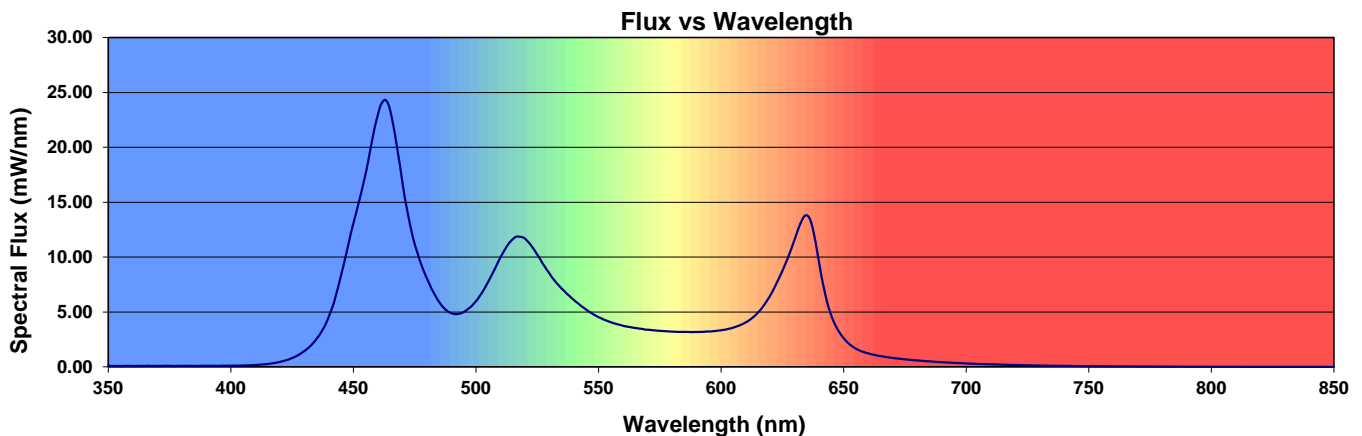
### Summary of Results

<b>Total Output:</b>	428 Lumens	<b>Chromaticity (x):</b>	0.2630
<b>Efficacy:</b>	54.6 lm/w	<b>Chromaticity (y):</b>	0.2717
<b>CCT:</b>	14357 K	<b>Chromaticity (u'):</b>	0.1835
<b>CRI (Ra):</b>	73.0	<b>Chromaticity (v'):</b>	0.4264
<b>CRI (R9):</b>	-67.3	<b>TM-30 R<sub>f</sub>:</b>	
<b>Peak Wavelength:</b>	462.8 nm	<b>TM-30 R<sub>g</sub>:</b>	
<b>Dominant Wavelength:</b>	479.2 nm	<b>Duv:</b>	0.0027
<b>S/P Ratio:</b>	3.406		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73.0	64.0	78.5	88.8	73.9	74.7	78.3	77.6	48.3	-67.3	51.1	66.8	66.7	65.0	90.5





## Distribution - Goniophotometer

### Distribution Test Conditions

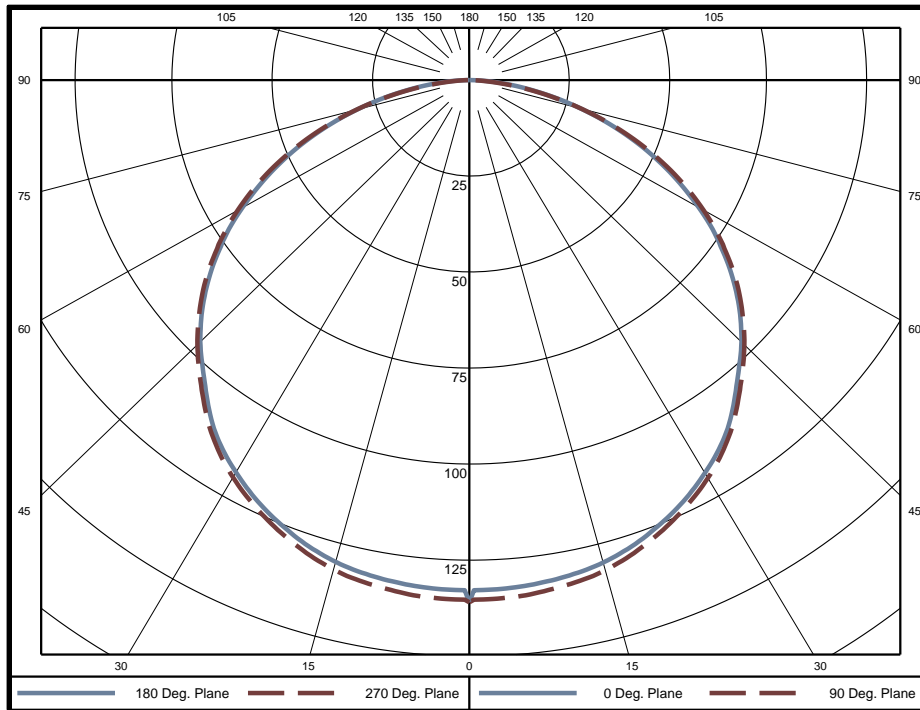
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	12.01 VDC	0.6751 A	8.105 W	N/A	N/A	N/A

### Summary of Results

**Spacing Criteria**  
 0-180: 1.29  
 90-270: 1.29

**Total Lumen Output:** 422.6 Lumens  
**Luminaire Efficacy:** 52.1 lm/w  
**Maximum Candela:** 137 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.25	0.8%	60-65	30.32	7.2%	120-125	0	0.0%
5-10	9.67	2.3%	65-70	25.18	6.0%	125-130	0	0.0%
10-15	15.88	3.8%	70-75	19.09	4.5%	130-135	0	0.0%
15-20	21.65	5.1%	75-80	12.57	3.0%	135-140	0	0.0%
20-25	26.79	6.3%	80-85	6.40	1.5%	140-145	0	0.0%
25-30	31.19	7.4%	85-90	1.74	0.4%	145-150	0	0.0%
30-35	34.68	8.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	36.92	8.7%	95-100	0	0.0%	155-160	0	0.0%
40-45	37.99	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	38.12	9.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	36.92	8.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	34.29	8.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	180	42.6%
0-60	327	77.5%
0-90	423	100.0%
90-180	0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

Vertical 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	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
	5	132.6	135.7	137.0	136.4	135.1	136.4	137.0	135.7	132.6	135.7	137.0	136.4	135.1	136.4	137.0	135.7
	10	131.6	134.7	135.9	135.3	133.9	135.3	135.9	134.7	131.6	134.7	135.9	135.3	133.9	135.3	135.9	134.7
	15	130.0	133.1	134.1	133.4	132.0	133.4	134.1	133.1	130.0	133.1	134.1	133.4	132.0	133.4	134.1	133.1
	20	127.0	130.0	130.9	130.2	128.8	130.2	130.9	130.0	127.0	130.0	130.9	130.2	128.8	130.2	130.9	130.0
	25	123.0	126.1	126.8	126.0	124.6	126.0	126.8	126.1	123.0	126.1	126.8	126.0	124.6	126.0	126.8	126.1
	30	118.1	121.3	121.9	120.9	119.5	120.9	121.9	121.3	118.1	121.3	121.9	120.9	119.5	120.9	121.9	121.3
	35	112.1	115.2	115.8	114.7	113.3	114.7	115.8	115.2	112.1	115.2	115.8	114.7	113.3	114.7	115.8	115.2
	40	104.1	107.4	107.8	106.6	105.4	106.6	107.8	107.4	104.1	107.4	107.8	106.6	105.4	106.6	107.8	107.4
	45	96.4	99.5	99.8	98.6	97.4	98.6	99.8	99.5	96.4	99.5	99.8	98.6	97.4	98.6	99.8	99.5
	50	87.5	90.8	91.0	89.8	88.5	89.8	91.0	90.8	87.5	90.8	91.0	89.8	88.5	89.8	91.0	90.8
	55	77.4	80.4	80.8	79.8	78.5	79.8	80.8	80.4	77.4	80.4	80.8	79.8	78.5	79.8	80.8	80.4
	60	66.4	69.0	69.5	68.6	67.7	68.6	69.5	69.0	66.4	69.0	69.5	68.6	67.7	68.6	69.5	69.0
	65	54.4	56.5	57.0	56.3	55.7	56.3	57.0	56.5	54.4	56.5	57.0	56.3	55.7	56.3	57.0	56.5
	70	41.9	43.5	43.9	43.2	42.7	43.2	43.9	43.5	41.9	43.5	43.9	43.2	42.7	43.2	43.9	43.5
	75	29.2	30.2	30.4	29.7	29.3	29.7	30.4	30.2	29.2	30.2	30.4	29.7	29.3	29.7	30.4	30.2
80	17.2	17.6	17.8	17.0	16.5	17.0	17.8	17.6	17.2	17.6	17.8	17.0	16.5	17.0	17.8	17.6	
85	7.2	7.3	7.0	6.4	5.9	6.4	7.0	7.3	7.2	7.3	7.0	6.4	5.9	6.4	7.0	7.3	
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)

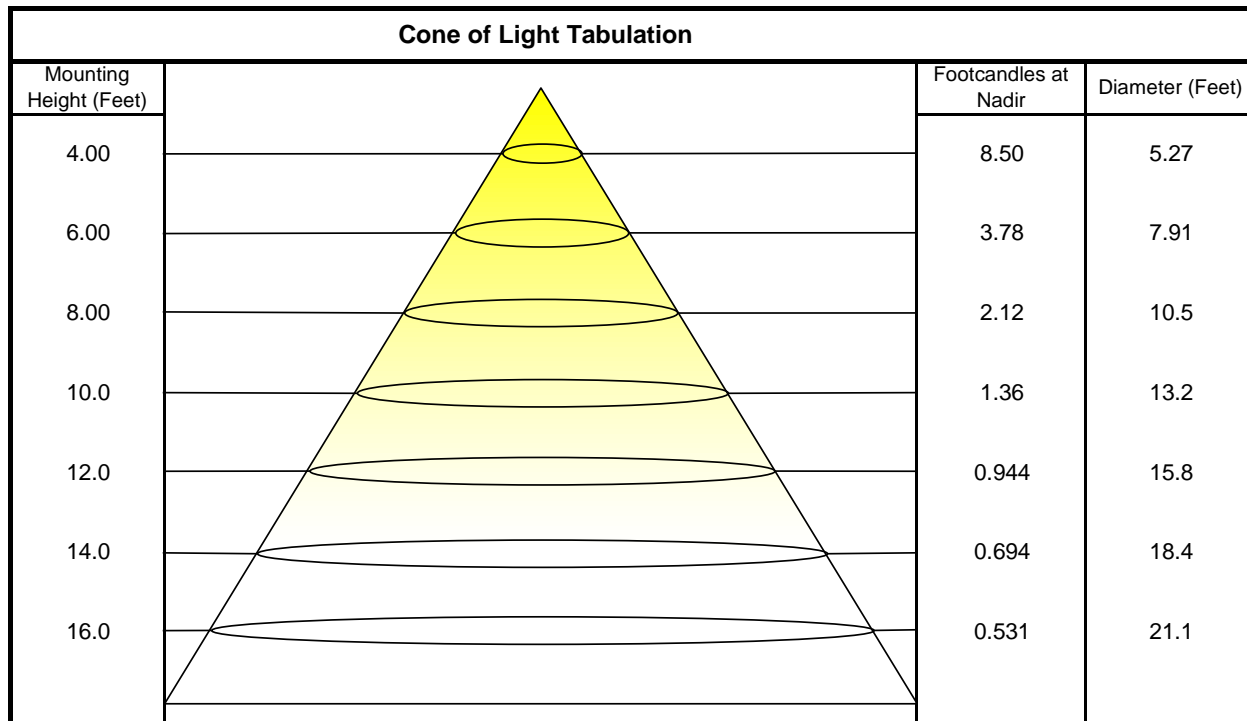
Vertical Angle (Degrees)	0	45	90	
	0	32430	32430	32430
	45	32500	33650	32830
	55	32190	33570	32650
	65	30680	32160	31400
	75	26930	28020	27010
	85	19810	19050	16120



### Utilization of Lumens - 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 Lumens delivered to the task surface **																	
0	503	503	503	503	491	491	491	491	470	470	470	450	450	450	431	431	431	423
1	458	438	419	402	447	428	411	396	410	396	383	393	382	371	378	369	360	351
2	416	380	350	325	404	372	344	321	356	333	314	343	323	306	330	314	299	290
3	378	332	297	268	367	325	292	266	312	284	261	301	277	256	290	269	252	242
4	345	293	255	226	335	287	252	224	277	246	221	267	240	218	257	234	215	206
5	317	261	222	193	308	256	220	192	247	215	190	239	210	188	231	206	186	177
6	292	234	196	168	284	230	194	167	223	190	166	215	186	164	209	183	163	154
7	270	212	174	148	263	209	173	147	202	170	146	196	167	145	190	164	144	135
8	251	193	156	131	245	190	155	131	184	153	130	179	150	129	174	148	128	120
9	235	177	142	118	229	174	141	117	169	139	117	165	136	116	161	135	115	108
10	220	163	129	106	214	161	128	106	157	126	106	153	125	105	149	123	105	97

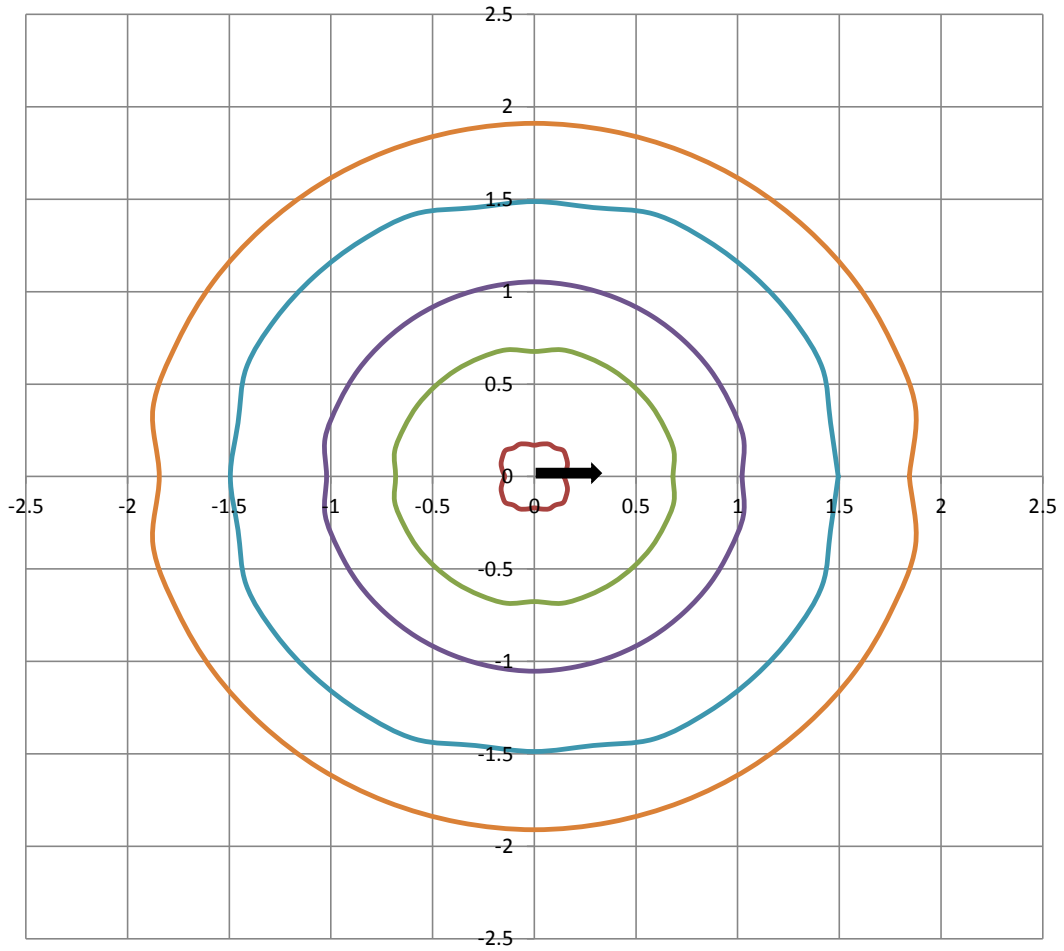
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	136.0 Candela
Central Cone Intensity:	136 Candela
Beam Flux:	328.9 Lumens
Beam Angle (0-180):	118.6 Degrees
Beam Angle (90-270):	119.7 Degrees
Field Angle (0-180):	163.4 Degrees
Field Angle (90-270):	162.5 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

