



SIRS Electronics Inc
Catalog Number
AcuHue-24CC55-4016 - ALL COLORS



Electrical Test Conditions

Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	24.00 VDC	0.3271 A	7.851 W	N/A	N/A	N/A

Summary of Results

Total Lumen Output	442.9 Lumens
Luminaire Efficacy	56.4 lm/w
Maximum Candela	142 Candela
CCT	13197 K
CRI	74.3
Duv	0.0056
TM-30 Rf	0.0
TM-30 Rg	0.0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	111	25.4%
0-40	185	42.2%
0-60	338	77.0%
0-90	439	99.8%
40-90	253	57.7%
60-90	100	22.9%
90-180	1	0.2%
0-180	439	100.0%

Spacing Criteria

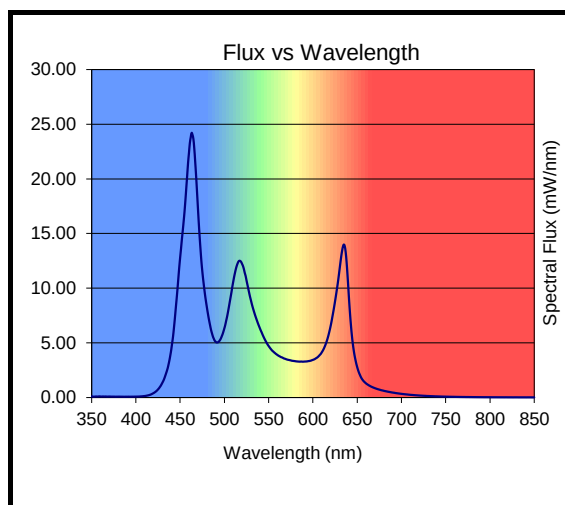
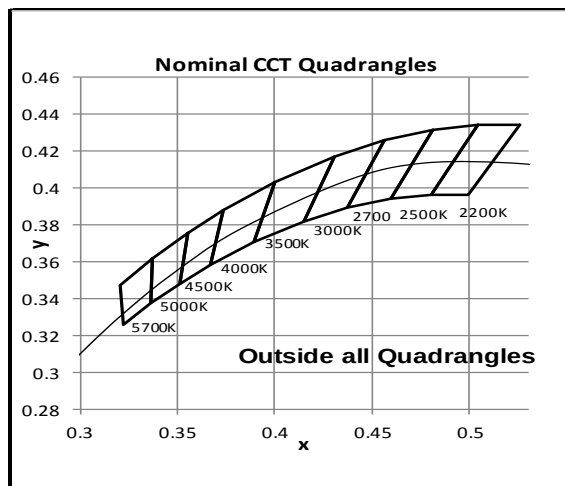
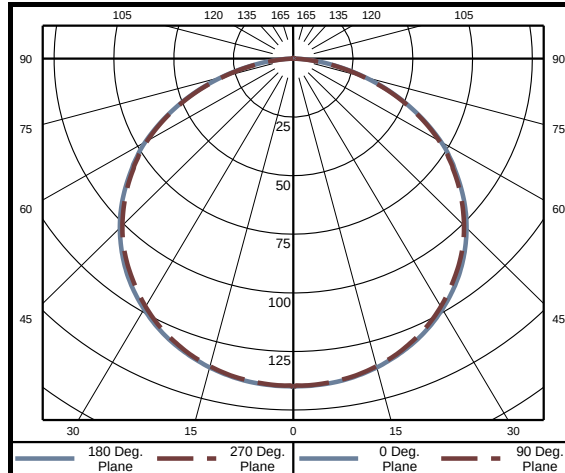
0-180	1.32
90-270	1.32

Average Luminance cd/m²

Vertical Angle	Horizontal Angle 0°
0	33440
45	34640
55	34390
65	33240
75	29210
85	21270

Cone of Light Tabulation

Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
4.00	8.76	5.25
6.00	3.90	7.88
8.00	2.19	10.5
10.0	1.40	13.1
12.0	0.974	15.8
14.0	0.715	18.4
16.0	0.548	21.0



Intensity (Candlepower) Summary

Angle	Mean CP	Lumens
0	140	
5	140	13
10	139	
15	136	39
20	133	
25	129	60
30	124	
35	118	74
40	111	
45	102	79
50	93	
55	83	74
60	72	
65	59	58
70	45	
75	32	33
80	18	
85	7	9
90	1	

Color Rendering Index Details

Ra (CRI)	74.3
R1	66.7
R2	79.7
R3	88.4
R4	75.9
R5	76.8
R6	79.1
R7	77.5
R8	50.7
R9	-58
R10	52.8
R11	69.3
R12	67.6
R13	67.2
R14	90.6

Chromaticity Coordinates

Chromaticity (x)	0.2639
Chromaticity (y)	0.2784
Chromaticity (u)	0.1816
Chromaticity (v)	0.2873
Chromaticity (u')	0.1816
Chromaticity (v')	0.4310
Duv	0.0056

Testing was performed in accordance with LM-79-08
The results contained in this summary pertain only to report #11765622.05



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, Suite 5
Rosenburg, TX 77471
United States

Catalog Number

AcuHue-24CC55-4016 - RED

Order Number

11765622

Test Number

11765622.01

Test Date

2017-05-15

Prepared By

Kevin Rodriguez, Technician

Approved By

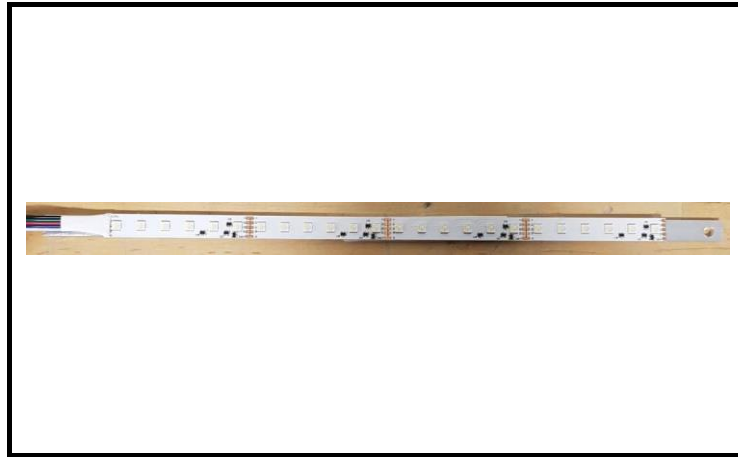
Justin Benner, Project Handler

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: RGB LED strip on formed aluminum with no lens enclosure - 1' length (304.8mm)
Lamp: 24 RGB LEDs
Mounting: Surface – Ceiling
Ballast/Driver: None

Luminaire



Summary of Results

Radiant Flux:	302 mW
Luminous Flux:	60.45 lm
Luminaire Efficacy:	30.0 lm/W
Chromaticity (x):	0.6938
Chromaticity (y):	0.3053
Chromaticity (u):	0.5261
Chromaticity (v):	0.3472
Duv:	0.0064

Test Conditions

Test Temperature:	25.0 °C
Voltage:	24.00 VDC
Current:	0.08394 A
Power:	2.015 W

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



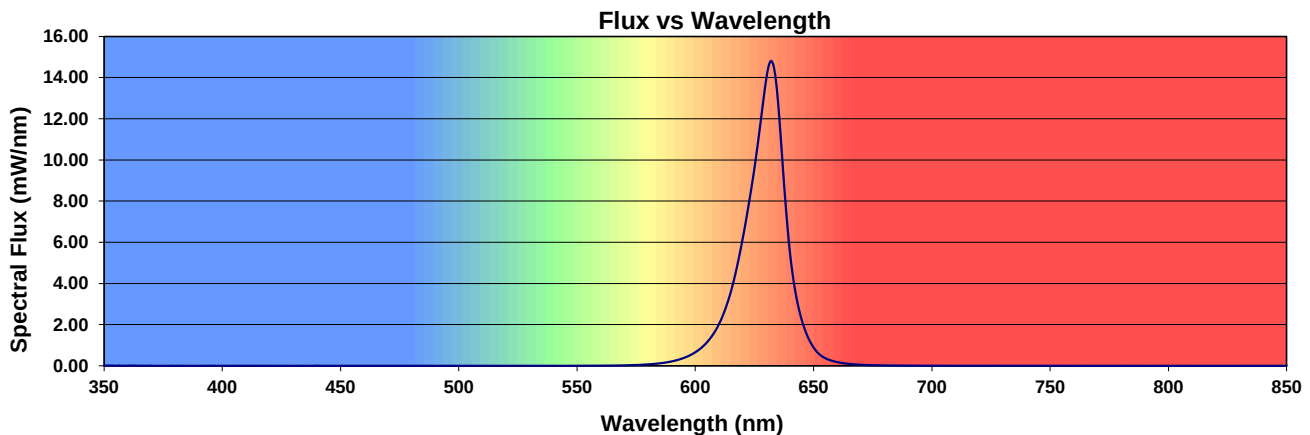
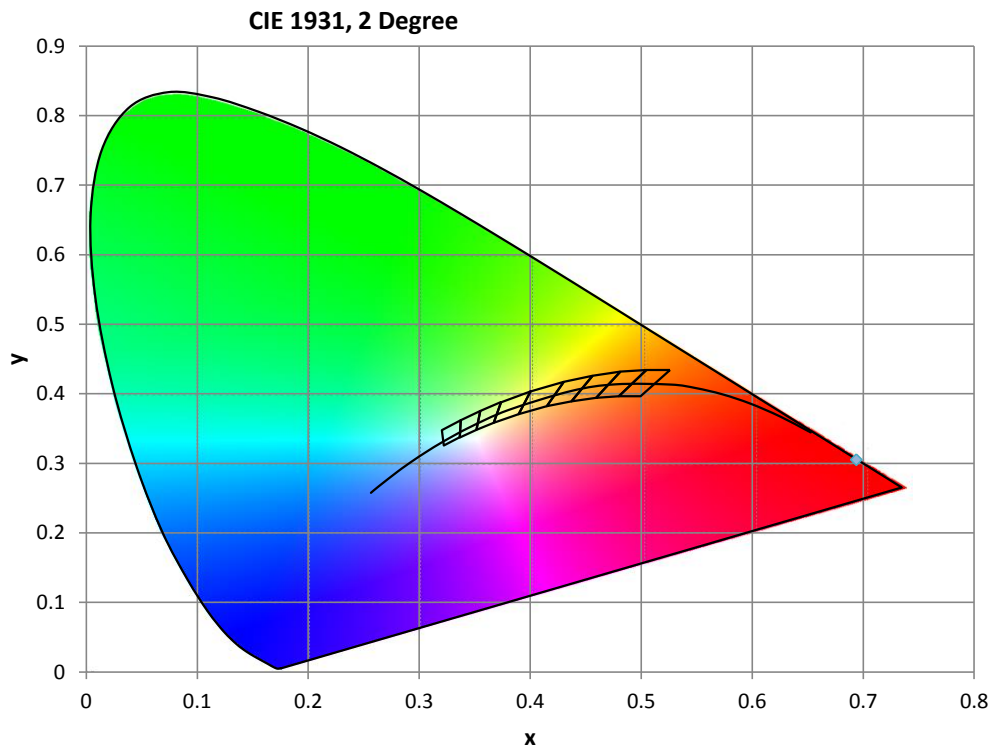
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	24.0 VDC	0.08394 A	2.015 W	N/A	N/A	N/A

Summary of Results

Total Output:	60 Lumens	Chromaticity (x):	0.6938
Efficacy:	30.0 lm/w	Chromaticity (y):	0.3053
Peak Wavelength:	632 nm	Chromaticity (u'):	0.5261
Dominant Wavelength:	621.6 nm	Chromaticity (v'):	0.5208
S/P Ratio:	0.059	Duv:	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, Suite 5
Rosenburg, TX 77471
United States

Catalog Number

AcuHue-24CC55-4016 - GREEN

Order Number

11765622

Test Number

11765622.02

Test Date

2017-05-15

Prepared By

Kevin Rodriguez, Technician

Approved By

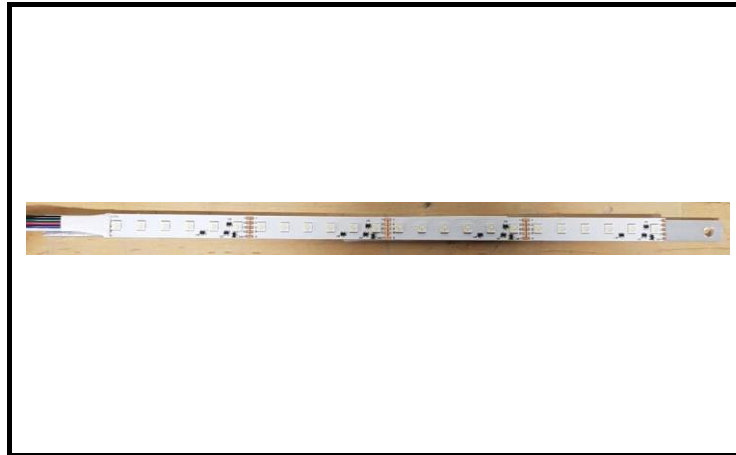
Justin Benner, Project Handler

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: RGB LED strip on formed aluminum with no lens enclosure - 1' length (304.8mm)
Lamp: 24 RGB LEDs
Mounting: Surface – Ceiling
Ballast/Driver: None

Luminaire



Summary of Results

Radiant Flux:	367.4 mW
Luminous Flux:	166.5 lm
Luminaire Efficacy:	85.6 lm/W
Chromaticity (x):	0.1402
Chromaticity (y):	0.7244
Chromaticity (u):	0.0491
Chromaticity (v):	0.3808
Duv:	0.1649

Test Conditions

Test Temperature:	24.9 °C
Voltage:	24.01 VDC
Current:	0.08095 A
Power:	1.944 W

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



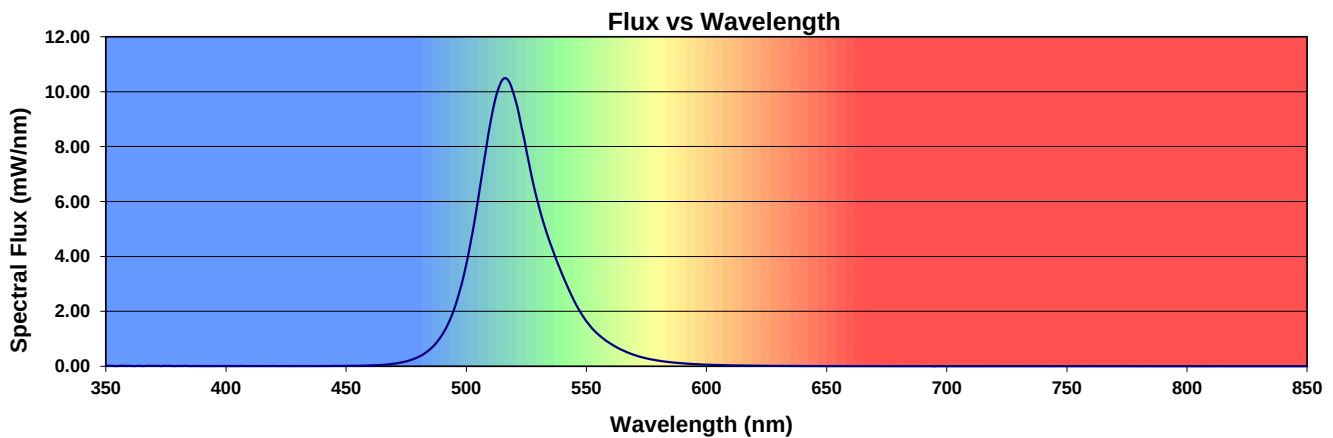
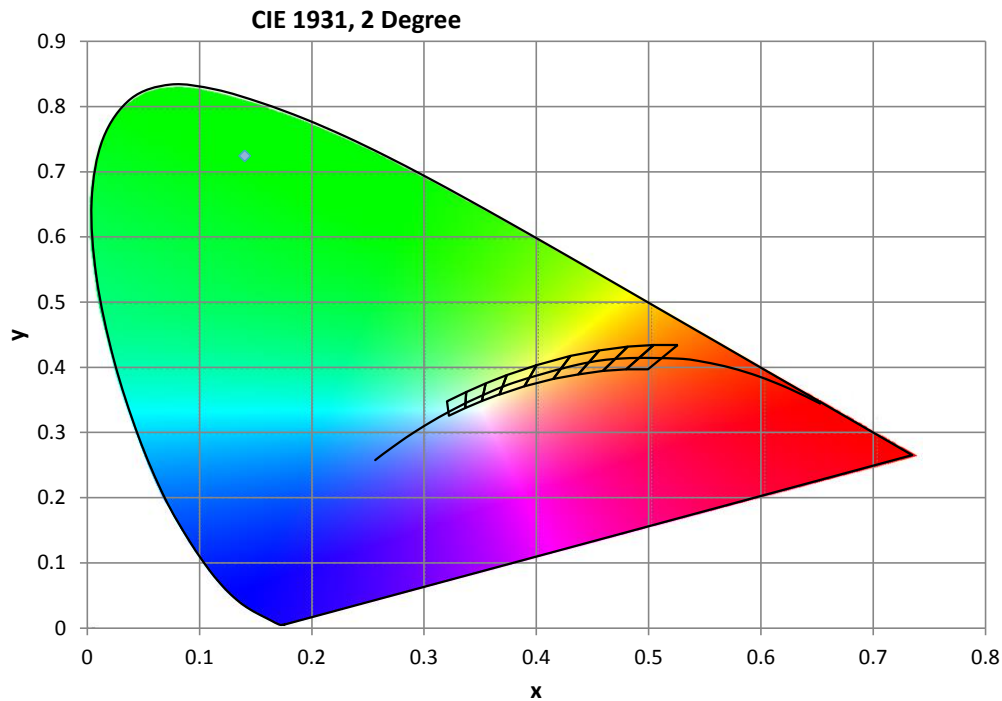
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	24.01 VDC	0.08095 A	1.944 W	N/A	N/A	N/A

Summary of Results

Total Output:	167 Lumens	Chromaticity (x):	0.1402
Efficacy:	85.6 lm/w	Chromaticity (y):	0.7244
Peak Wavelength:	516.2 nm	Chromaticity (u'):	0.0491
Dominant Wavelength:	521.5 nm	Chromaticity (v'):	0.5713
S/P Ratio:	3.186	Duv:	0.1649





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, Suite 5
Rosenburg, TX 77471
United States

Catalog Number

AcuHue-24CC55-4016 - BLUE

Order Number

11765622

Test Number

11765622.03

Test Date

2017-05-15

Prepared By

Kevin Rodriguez, Technician

Approved By

Justin Benner, Project Handler

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

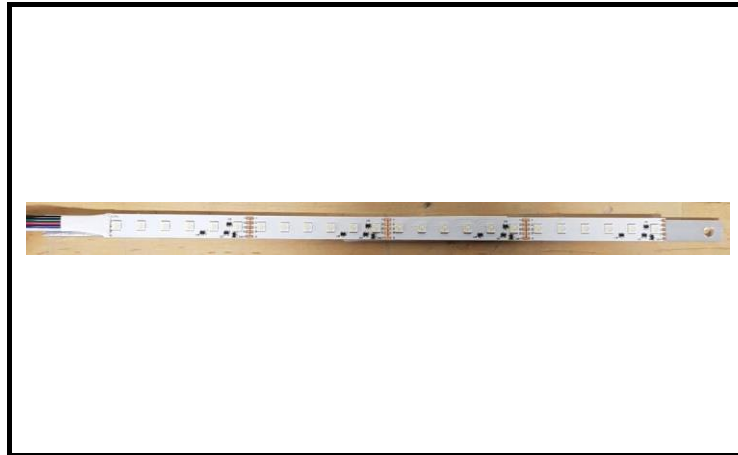
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.

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: RGB LED strip on formed aluminum with no lens enclosure - 1' length (304.8mm)
Lamp: 24 RGB LEDs
Mounting: Surface – Ceiling
Ballast/Driver: None

Luminaire



Summary of Results

Radiant Flux:	549.7 mW
Luminous Flux:	33.58 lm
Luminaire Efficacy:	17.3 lm/W
Chromaticity (x):	0.1369
Chromaticity (y):	0.052
Chromaticity (u):	0.1635
Chromaticity (v):	0.0932
Duv:	0.0324

Test Conditions

Test Temperature:	24.9 °C
Voltage:	24.00 VDC
Current:	0.08102 A
Power:	1.944 W

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



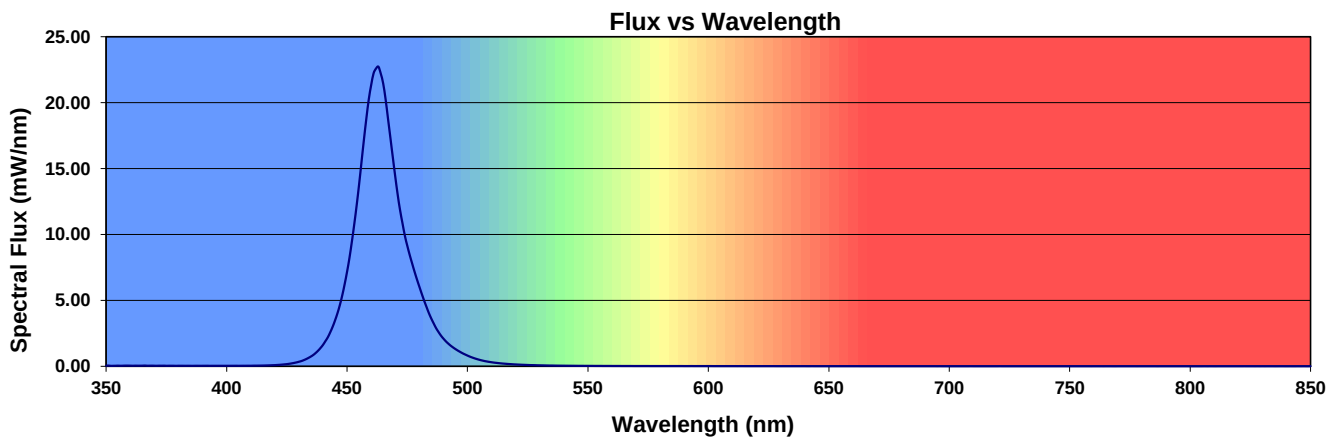
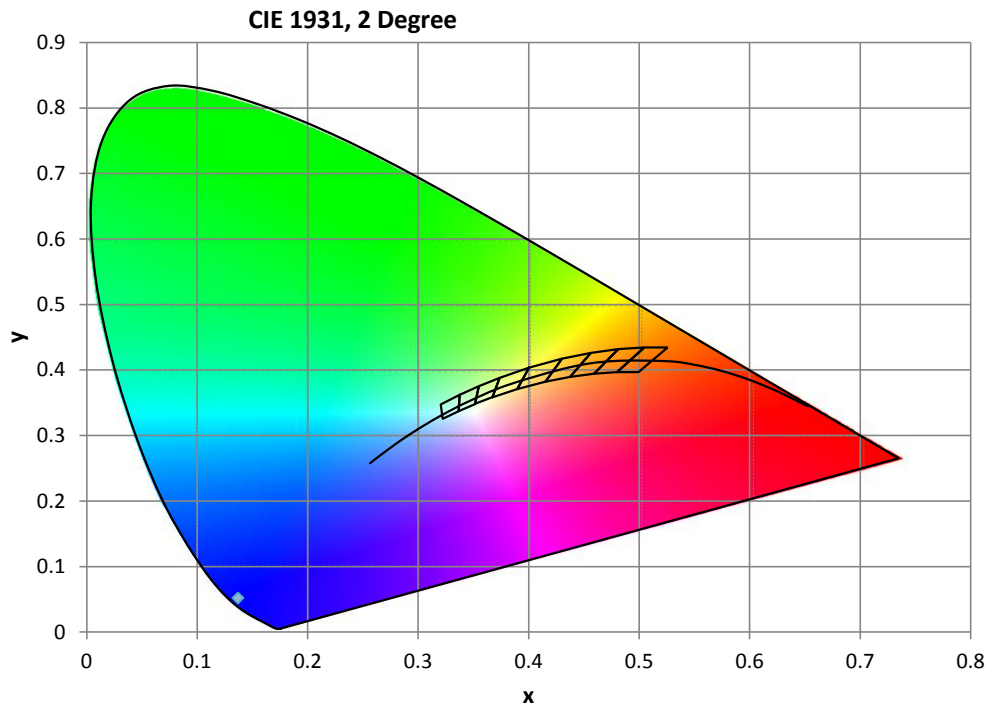
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	24.0 VDC	0.08102 A	1.944 W	N/A	N/A	N/A

Summary of Results

Total Output:	34 Lumens	Chromaticity (x):	0.1369
Efficacy:	17.3 lm/w	Chromaticity (y):	0.0520
Peak Wavelength:	462.5 nm	Chromaticity (u'):	0.1635
Dominant Wavelength:	466.7 nm	Chromaticity (v'):	0.1398
S/P Ratio:	17.1	Duv:	0.0324





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, Suite 5
Rosenburg, TX 77471
United States

Catalog Number

AcuHue-24CC55-4016 - WHITE

Order Number

11765622

Test Number

11765622.04

Test Date

2017-05-15

Prepared By

Kevin Rodriguez, Technician

Approved By

Justin Benner, Project Handler

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

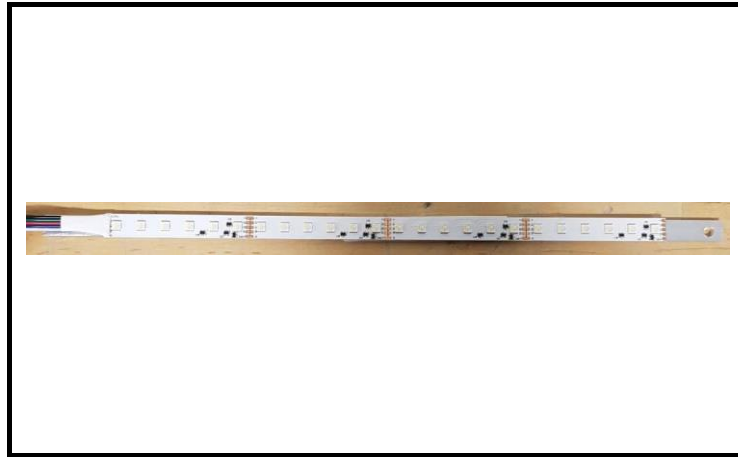
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.

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: RGB LED strip on formed aluminum with no lens enclosure - 1' length (304.8mm)
Lamp: 24 RGB LEDs
Mounting: Surface – Ceiling
Ballast/Driver: None

Luminaire



Summary of Results

Radiant Flux:	628.5 mW
Luminous Flux:	199.2 lm
Luminaire Efficacy:	102.4 lm/W
CCT:	5526 K
CRI (Ra):	82.8
Chromaticity (x):	0.3318
Chromaticity (y):	0.3440
Chromaticity (u):	0.2053
Chromaticity (v):	0.3193
Duv:	0.0017

Test Conditions

Test Temperature:	25.1 °C
Voltage:	23.99 VDC
Current:	0.08108 A
Power:	1.945 W

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



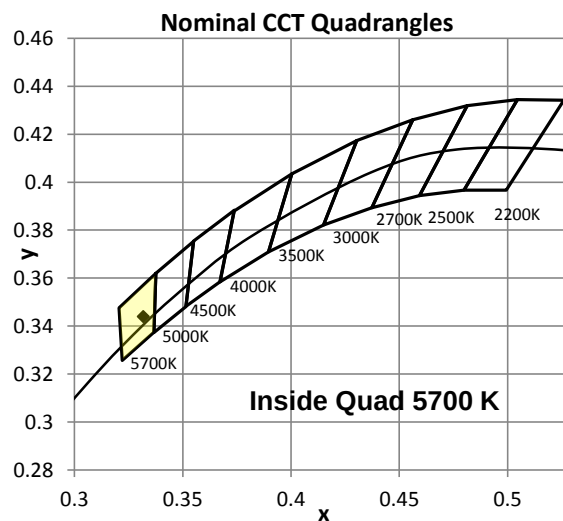
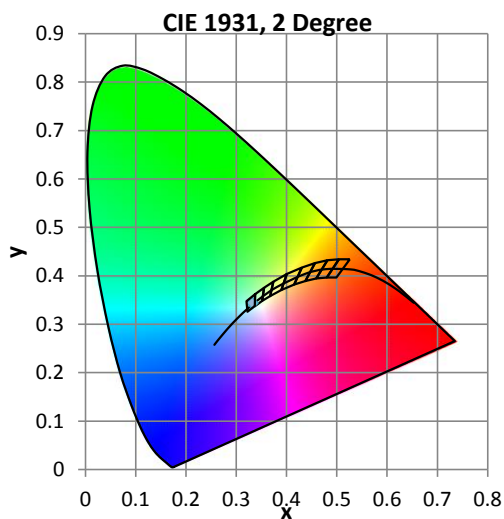
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	23.99 VDC	0.08108 A	1.945 W	N/A	N/A	N/A

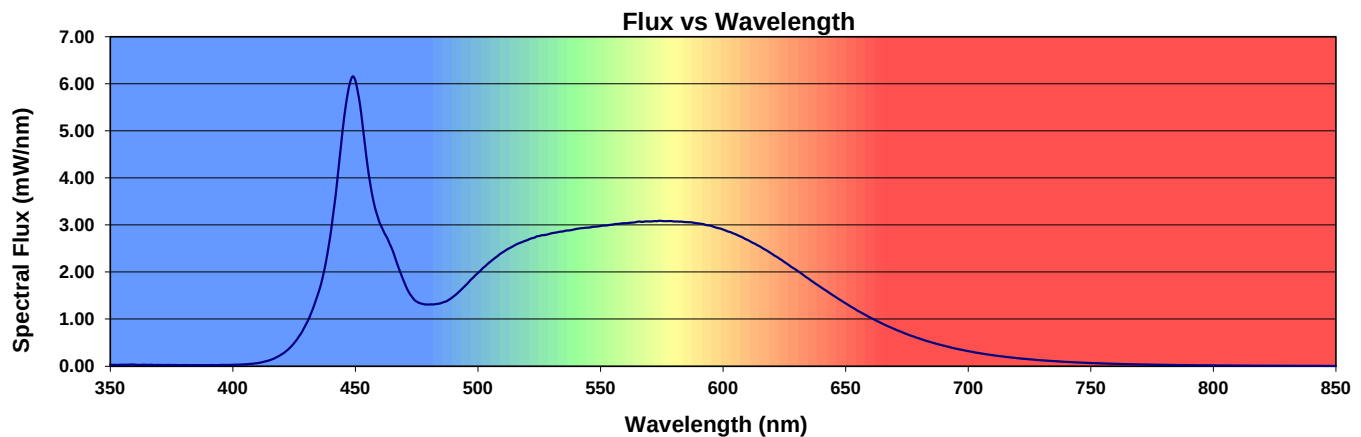
Summary of Results

Total Output:	199 Lumens	Chromaticity (x):	0.3318
Efficacy:	102.4 lm/w	Chromaticity (y):	0.3440
CCT:	5526 K	Chromaticity (u'):	0.2053
CRI (Ra):	82.8	Chromaticity (v'):	0.4789
CRI (R9):	7.7	TM-30 Rf:	81
Peak Wavelength:	449 nm	TM-30 Rg:	96.5
Dominant Wavelength:	546.9 nm	Duv:	0.0017
S/P Ratio:	2.047		



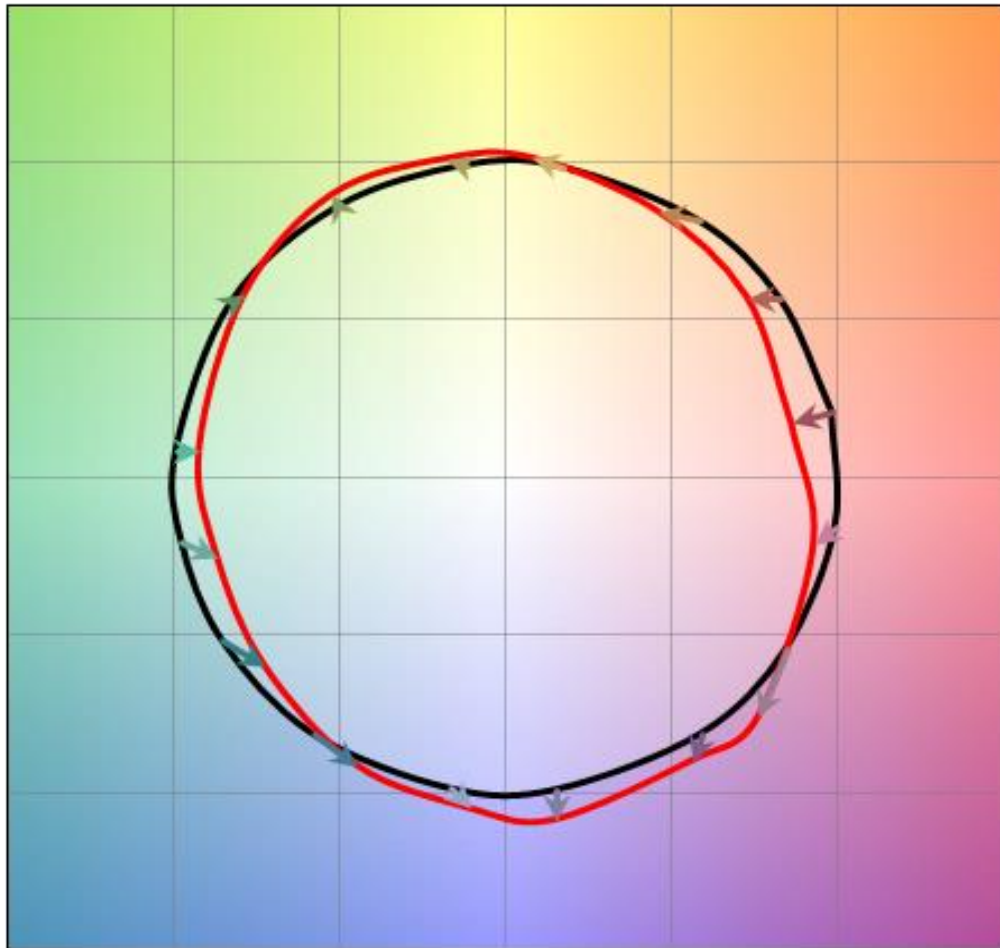
Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.8	81.4	87.0	90.4	83.5	82.2	81.7	87.0	68.9	7.7	68.6	83.0	60.8	82.7	94.8





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 _{m,j}	Change of Chroma
		a'	b'	a'	b'			da _{relative}	db _{relative}	path_x _{ref}	path_y _{ref}	path_x	path_y		
1	7	21.22	4.34	24.20	5.32	3.484	0.21	-0.12	-0.04	0.98	0.21	0.86	0.17	74	-13%
2	6	16.57	12.31	18.84	12.12	2.417	0.60	-0.10	0.01	0.82	0.57	0.72	0.58	82	-8%
3	8	10.65	21.47	13.80	20.66	3.393	0.95	-0.13	0.03	0.58	0.82	0.45	0.85	74	-4%
4	8	1.95	22.81	4.00	22.14	2.285	1.40	-0.09	0.03	0.17	0.99	0.08	1.02	83	1%
5	9	-2.97	20.39	-1.75	19.98	1.891	1.69	-0.06	0.02	-0.12	0.99	-0.18	1.01	86	3%
6	8	-10.55	18.13	-10.19	17.37	1.078	2.10	-0.02	0.04	-0.51	0.86	-0.53	0.90	92	4%
7	5	-16.98	12.71	-17.80	12.24	1.096	2.55	0.04	0.02	-0.83	0.56	-0.79	0.58	92	-2%
8	5	-22.51	2.33	-24.22	2.20	1.819	3.06	0.07	0.01	-1.00	0.09	-0.93	0.09	86	-7%
9	7	-13.90	-3.91	-15.60	-3.17	2.029	-2.94	0.11	-0.05	-0.98	-0.20	-0.87	-0.25	85	-10%
10	5	-17.05	-13.32	-19.95	-11.55	3.592	-2.60	0.13	-0.08	-0.86	-0.52	-0.73	-0.59	73	-6%
11	9	-10.00	-21.42	-13.10	-19.10	4.011	-2.20	0.13	-0.10	-0.59	-0.81	-0.45	-0.91	70	1%
12	2	-2.19	-22.06	-3.40	-20.76	1.946	-1.74	0.06	-0.06	-0.17	-0.99	-0.11	-1.05	85	5%
13	6	2.23	-17.22	2.36	-15.70	1.904	-1.42	-0.01	-0.10	0.15	-0.99	0.14	-1.08	86	9%
14	3	12.48	-20.27	13.17	-18.31	2.358	-0.94	-0.03	-0.09	0.59	-0.81	0.56	-0.90	82	6%
15	6	11.52	-11.34	12.78	-8.09	3.814	-0.57	-0.08	-0.21	0.84	-0.54	0.76	-0.76	71	5%
16	5	21.34	-4.68	22.84	-3.33	2.166	-0.15	-0.06	-0.06	0.99	-0.15	0.92	-0.21	84	-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

4705 Hwy 36 S, Suite 5
Rosenburg, TX 77471
United States

Catalog Number

AcuHue-24CC55-4016 - ALL COLORS

Order Number

11765622

Test Number

11765622.05

Test Date

2017-05-16

Prepared By

Bhavik Shah, Senior 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

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

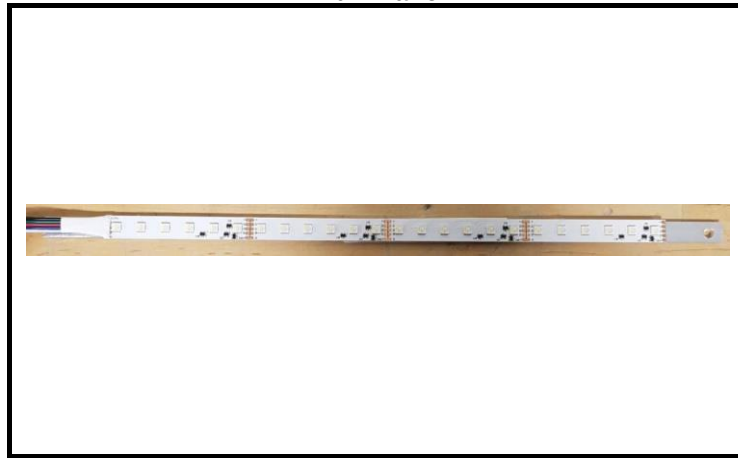
Laboratory results may not be representative of field performance
Ballast factors have not been applied

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



Luminaire Description: RGB LED strip on formed aluminum 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: 443 Lumens
Efficacy: 56.4 lm/w
CCT: 13197 K
CRI (Ra): 74.3

Distribution

Total Luminaire Output: 439.4 Lumens
Luminaire Efficacy: 56 lm/w
Maximum Candela: 142 Candela

Electrical Data at 24 VDC

Test Temperature: 25.7 °C
Voltage: 24.10 VDC
Current: 0.3270 A
Power: 7.856 W



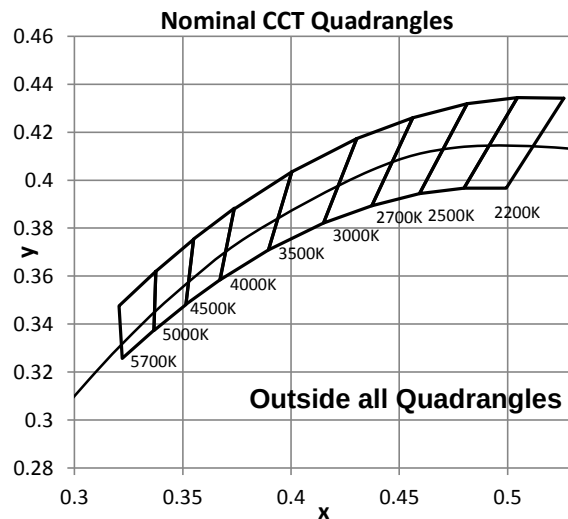
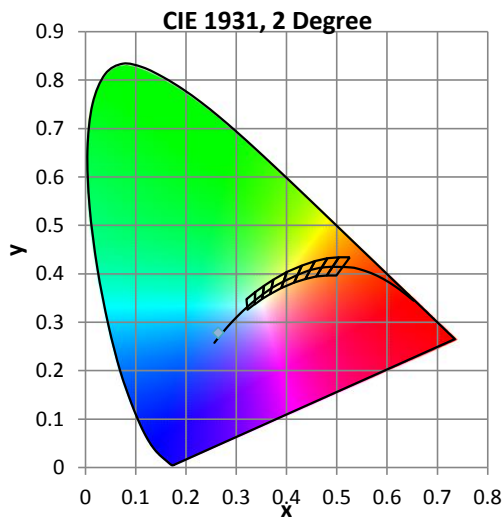
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	24.10 VDC	0.3270 A	7.856 W	N/A	N/A	N/A

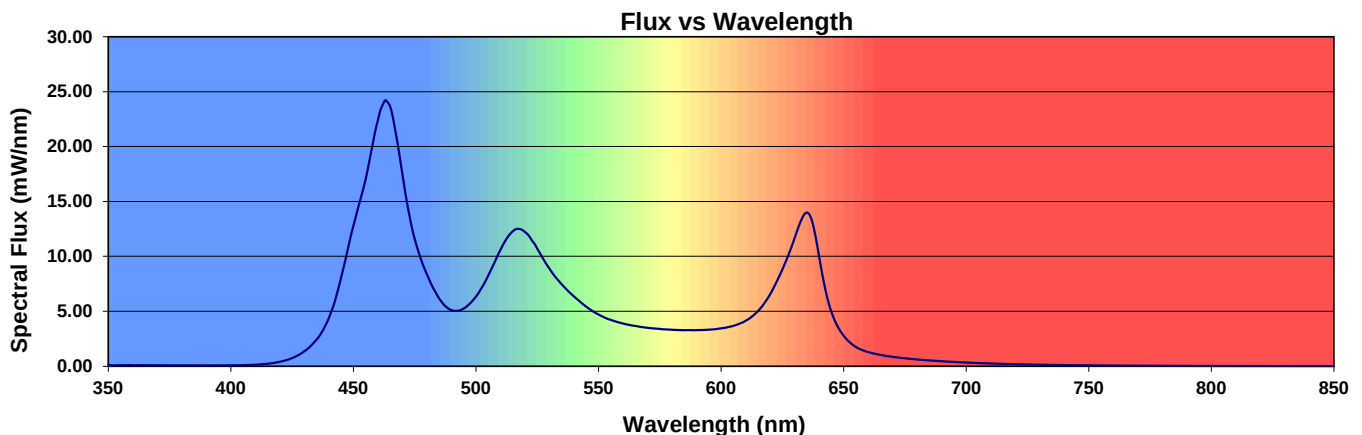
Summary of Results

Total Output:	443 Lumens	Chromaticity (x):	0.2639
Efficacy:	56.4 lm/w	Chromaticity (y):	0.2784
CCT:	13197 K	Chromaticity (u'):	0.1816
CRI (Ra):	74.3	Chromaticity (v'):	0.4310
CRI (R9):	-58.0	TM-30 Rf:	0
Peak Wavelength:	463.3 nm	TM-30 Rg:	0
Dominant Wavelength:	480.6 nm	Duv:	0.0056
S/P Ratio:	3.38		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74.3	66.7	79.7	88.4	75.9	76.8	79.1	77.5	50.7	-58.0	52.8	69.3	67.6	67.2	90.6





Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	24.00 VDC	0.3271 A	7.851 W	N/A	N/A	N/A

Summary of Results

Spacing Criteria

0-180: 1.32

90-270: 1.32

Total Lumen Output:

439.4 Lumens

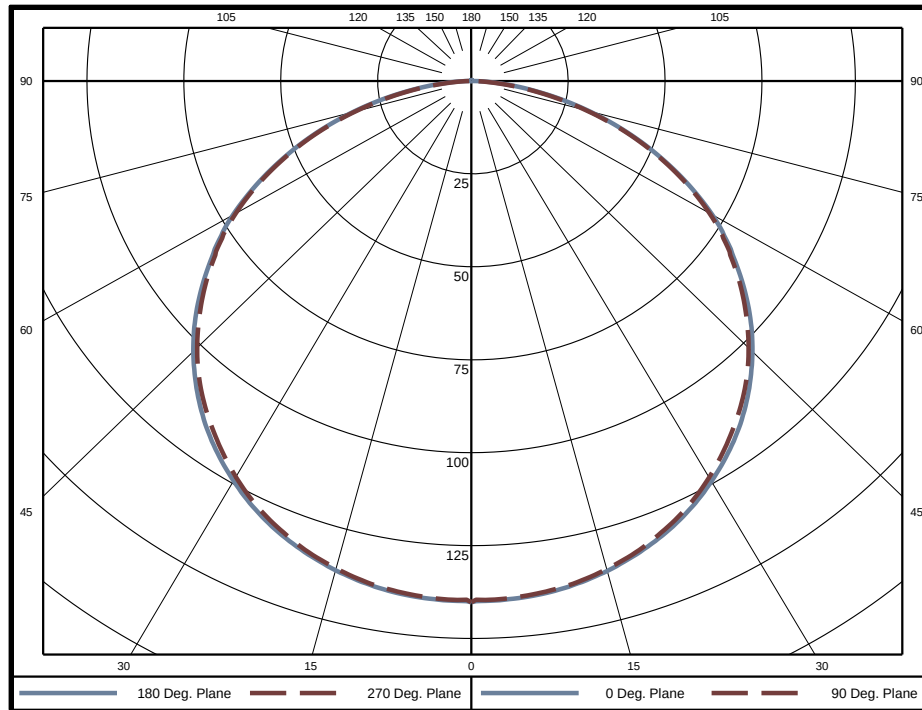
Luminaire Efficacy:

56.0 lm/w

Maximum Candela:

142 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.35	0.8%	60-65	31.80	7.2%	120-125	0.03	0.0%
5-10	9.97	2.3%	65-70	26.43	6.0%	125-130	0.04	0.0%
10-15	16.33	3.7%	70-75	20.12	4.6%	130-135	0.04	0.0%
15-20	22.24	5.1%	75-80	13.33	3.0%	135-140	0.05	0.0%
20-25	27.55	6.3%	80-85	6.84	1.6%	140-145	0.05	0.0%
25-30	32.05	7.3%	85-90	1.91	0.4%	145-150	0.05	0.0%
30-35	35.61	8.1%	90-95	0.12	0.0%	150-155	0.05	0.0%
35-40	38.14	8.7%	95-100	0.05	0.0%	155-160	0.05	0.0%
40-45	39.49	9.0%	100-105	0.03	0.0%	160-165	0.04	0.0%
45-50	39.53	9.0%	105-110	0.02	0.0%	165-170	0.03	0.0%
50-55	38.24	8.7%	110-115	0.02	0.0%	170-175	0.02	0.0%
55-60	35.77	8.1%	115-120	0.02	0.0%	175-180	0.01	0.0%

Zone	Lumens	% of Luminaire
0-40	185	42.2%
0-60	338	77.0%
0-90	439	99.8%
90-180	1	0.2%



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	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2
	5	139.6	141.3	139.4	139.6	139.3	139.6	139.4	141.3	139.6	141.3	139.4	139.6	139.3	139.6	139.4
	10	138.5	140.1	138.2	138.4	138.1	138.4	138.2	140.1	138.5	140.1	138.2	138.4	138.1	138.4	138.2
	15	136.4	137.9	135.9	136.0	135.8	136.0	135.9	137.9	136.4	137.9	135.9	136.0	135.8	136.0	135.9
	20	133.3	134.8	132.8	132.9	132.7	132.9	132.8	134.8	133.3	134.8	132.8	132.9	132.7	132.9	132.8
	25	129.3	130.8	128.7	128.7	128.4	128.7	128.7	130.8	129.3	130.8	128.7	128.7	128.4	128.7	128.7
	30	124.2	125.6	123.5	123.3	123.0	123.3	123.5	125.6	124.2	125.6	123.5	123.3	123.0	123.3	123.5
	35	118.2	119.3	117.5	117.1	116.6	117.1	117.5	119.3	118.2	119.3	117.5	117.1	116.6	117.1	117.5
	40	111.0	112.2	110.4	110.0	109.6	110.0	110.4	112.2	111.0	112.2	110.4	110.0	109.6	110.0	110.4
	45	102.7	103.8	102.3	101.8	101.3	101.8	102.3	103.8	102.7	103.8	102.3	101.8	101.3	101.8	102.3
	50	93.2	94.2	93.1	92.6	91.9	92.6	93.1	94.2	93.2	94.2	93.1	92.6	91.9	92.6	93.1
	55	82.7	83.6	82.7	82.3	81.7	82.3	82.7	83.6	82.7	83.6	82.7	82.3	81.7	82.3	82.7
	60	71.8	72.5	71.8	71.4	71.0	71.4	71.8	72.5	71.8	72.5	71.8	71.4	71.0	71.4	71.8
	65	58.9	59.5	59.1	58.7	58.4	58.7	59.1	59.5	58.9	59.5	59.1	58.7	58.4	58.7	59.1
	70	45.5	45.8	45.6	45.1	45.0	45.1	45.6	45.8	45.5	45.8	45.6	45.1	45.0	45.1	45.6
	75	31.7	32.0	31.8	31.3	31.0	31.3	31.8	32.0	31.7	32.0	31.8	31.3	31.0	31.3	31.8
	80	18.6	18.7	18.6	18.2	17.8	18.2	18.6	18.7	18.6	18.7	18.6	18.2	17.8	18.2	18.6
	85	7.8	7.7	7.3	6.9	6.5	6.9	7.3	7.7	7.8	7.7	7.3	6.9	6.5	6.9	7.3
	90	0.2	0.9	0.8	0.7	0.6	0.7	0.8	0.9	0.2	0.9	0.8	0.7	0.6	0.7	0.8
	95	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.2
	100	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
	105	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	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
	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
	120	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	125	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	135	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	140	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	145	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	150	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	155	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	160	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	165	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	170	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	175	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	180	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

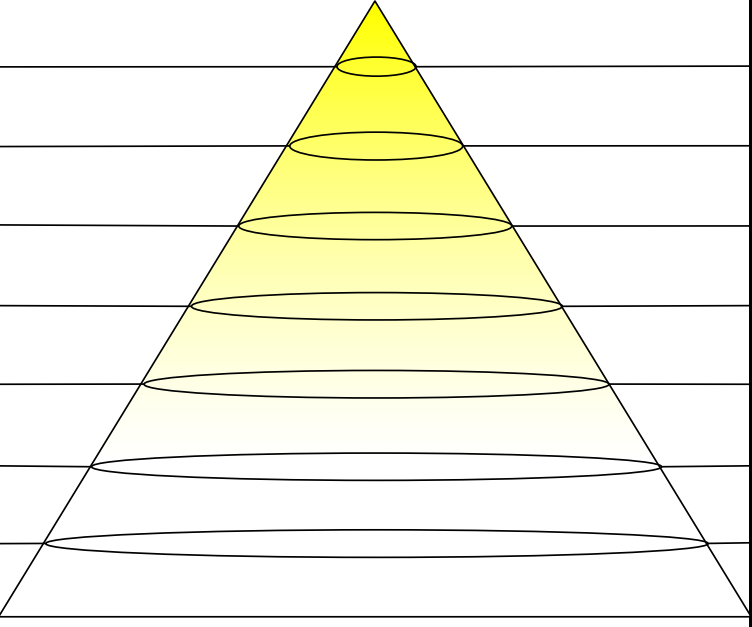
Vertical Angle (Degrees)	0	45	90
	0	33440	33440
	45	34640	34170
	55	34390	33960
	65	33240	32930
	75	29210	28600
	85	21270	17880



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	523	523	523	523	511	511	511	511	488	488	488	467	467	467	448	448	448	439
1	476	454	435	417	464	444	427	411	425	411	397	408	396	385	392	382	373	364
2	431	394	363	337	420	386	357	333	370	346	325	355	335	317	341	325	310	300
3	392	344	307	278	381	337	303	275	324	294	270	311	286	265	300	279	261	251
4	358	304	264	234	348	298	261	232	287	254	229	276	248	225	266	242	222	212
5	329	270	230	200	319	265	227	199	256	222	197	247	217	194	239	213	192	182
6	303	243	203	174	294	239	200	173	230	196	171	223	193	170	216	189	168	159
7	280	220	180	153	273	216	179	152	209	175	151	203	172	150	196	169	148	139
8	261	200	162	136	254	197	160	135	191	158	134	185	155	133	180	153	132	124
9	243	183	146	122	237	181	145	121	175	143	121	171	141	120	166	139	119	111
10	228	169	133	110	222	166	133	110	162	131	109	158	129	108	154	127	108	100

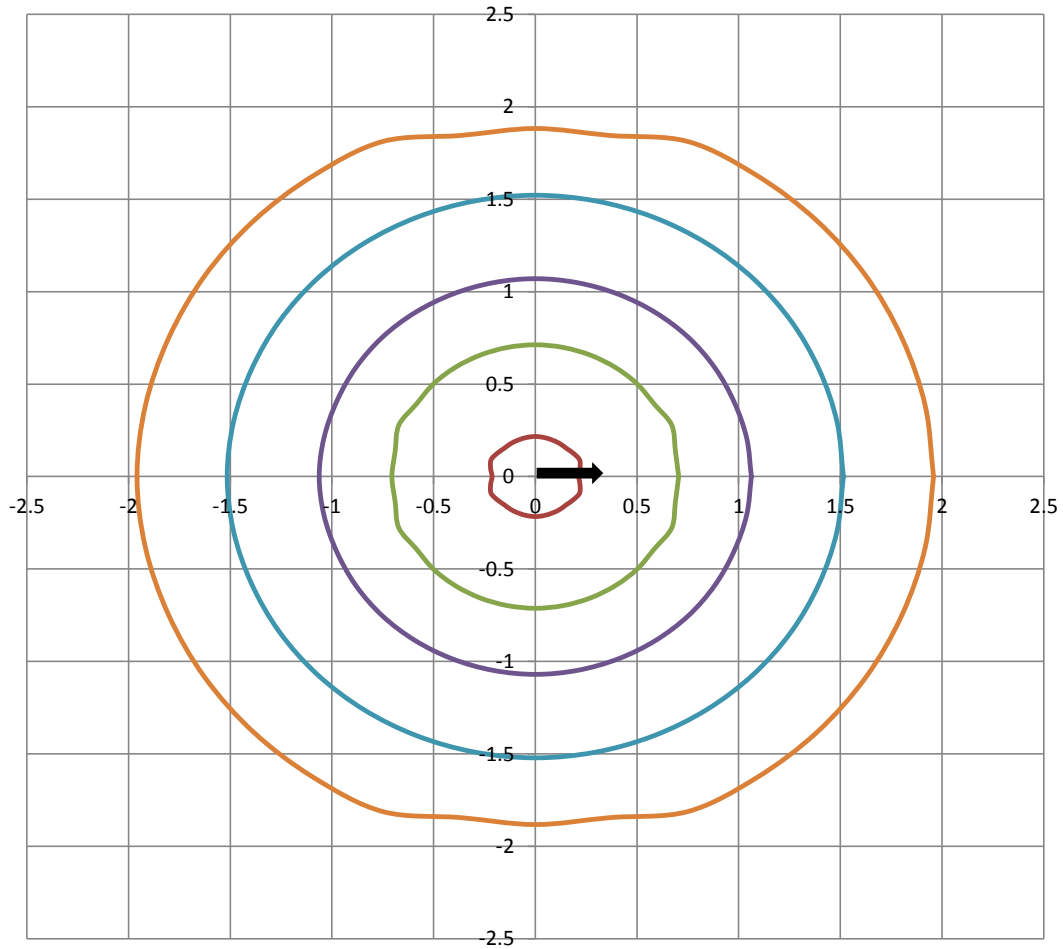
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	140.2 Candela
Central Cone Intensity:	140 Candela
Beam Flux:	342.7 Lumens
Beam Angle (0-180):	121.4 Degrees
Beam Angle (90-270):	120.7 Degrees
Field Angle (0-180):	163.9 Degrees
Field Angle (90-270):	163.1 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		8.76	5.25
6.00		3.90	7.88
8.00		2.19	10.5
10.0		1.40	13.1
12.0		0.974	15.8
14.0		0.715	18.4
16.0		0.548	21.0



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

