



SIRS Electronics Inc
Catalog Number
ACUHUE-12CV27-4016 - ALL COLORS



Electrical Test Conditions

Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	11.99 VDC	0.6482 A	7.771 W	N/A	N/A	N/A

Summary of Results

Total Lumen Output	403.7 Lumens
Luminaire Efficacy	52.9 lm/w
Maximum Candela	127 Candela
CCT	8200 K
CRI	58.3
Duv	-0.0094
TM-30 Rf	0.0
TM-30 Rg	0.0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	100	25.4%
0-40	165	42.1%
0-60	302	77.0%
0-90	391	99.8%
40-90	226	57.6%
60-90	89	22.8%
90-180	1	0.2%
0-180	392	100.0%

Spacing Criteria

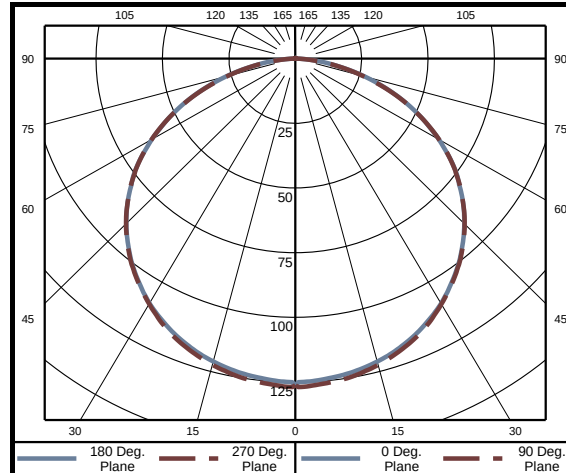
0-180	1.30
90-270	1.30

Average Luminance cd/m²

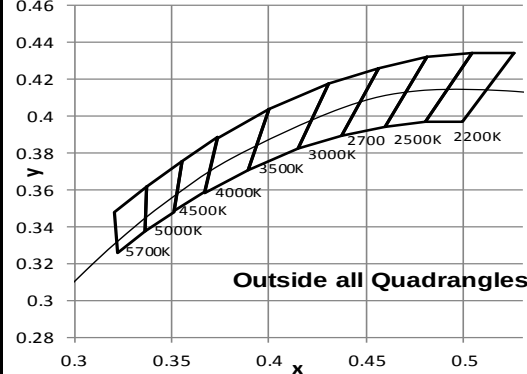
Vertical Angle	Horizontal Angle 0°
0	30100
45	30600
55	30660
65	29360
75	25750
85	17800

Cone of Light Tabulation

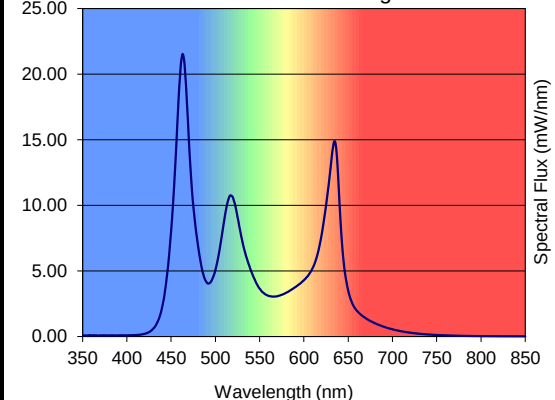
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
4.00	7.89	5.20
6.00	3.51	7.80
8.00	1.97	10.4
10.0	1.26	13.0
12.0	0.876	15.6
14.0	0.644	18.2
16.0	0.493	20.8



Nominal CCT Quadrangles



Flux vs Wavelength



Intensity (Candlepower) Summary

Angle	Mean CP	Lumens
0	126	
5	125	12
10	124	
15	122	34
20	119	
25	115	53
30	110	
35	105	66
40	99	
45	91	70
50	83	
55	74	66
60	64	
65	53	52
70	40	
75	28	30
80	16	
85	6	8
90	1	

Color Rendering Index Details

Ra (CRI)	58.3
R1	43.2
R2	65.7
R3	85.4
R4	54.3
R5	53.9
R6	59.5
R7	73.5
R8	31.0
R9	-98.6
R10	23.1
R11	41.3
R12	56.0
R13	45.9
R14	88.5

Chromaticity Coordinates

Chromaticity (x)	0.2974
Chromaticity (y)	0.2907
Chromaticity (u)	0.2019
Chromaticity (v)	0.2960
Chromaticity (u')	0.2019
Chromaticity (v')	0.4439
Duv	-0.0094

Testing was performed in accordance with LM-79-08
The results contained in this summary pertain only to report #11714176.19



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-12CV27-4016 - RED

Order Number

11714176

Test Number

11714176.15

Test Date

2017-04-13

Prepared By

Kevin Rodriguez, Technician

Approved By

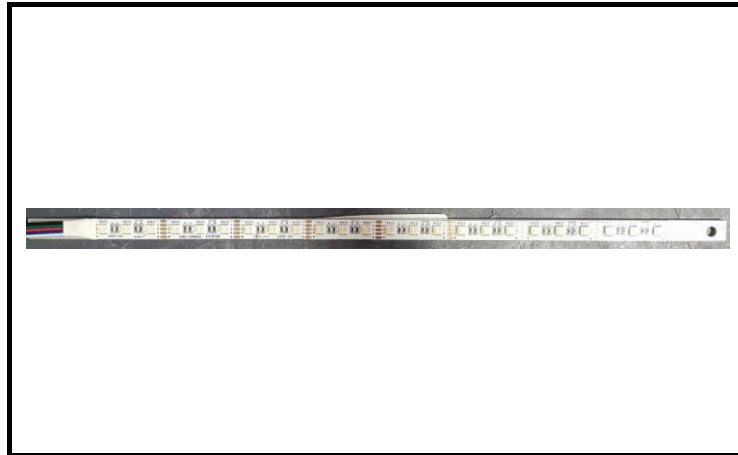
Justin Benner, Project Handler

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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:	292.8 mW
Luminous Flux:	58.7 lm
Luminaire Efficacy:	29.3 lm/W
Chromaticity (x):	0.6936
Chromaticity (y):	0.3054
Chromaticity (u):	0.5256
Chromaticity (v):	0.3472
Duv:	0.0064

Test Conditions

Test Temperature:	25.6 °C
Voltage:	12.02 VDC
Current:	0.1669 A
Power:	2.006 W

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



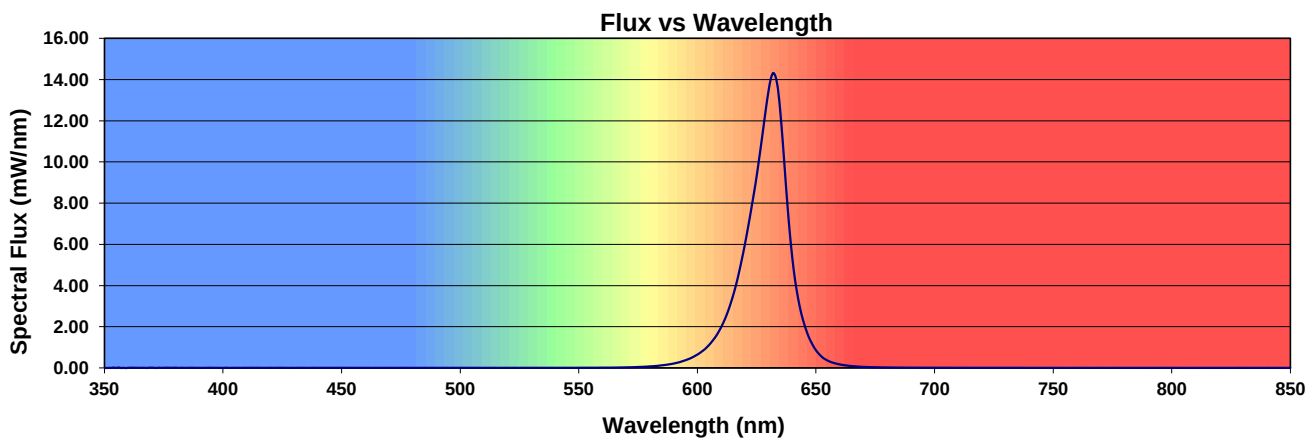
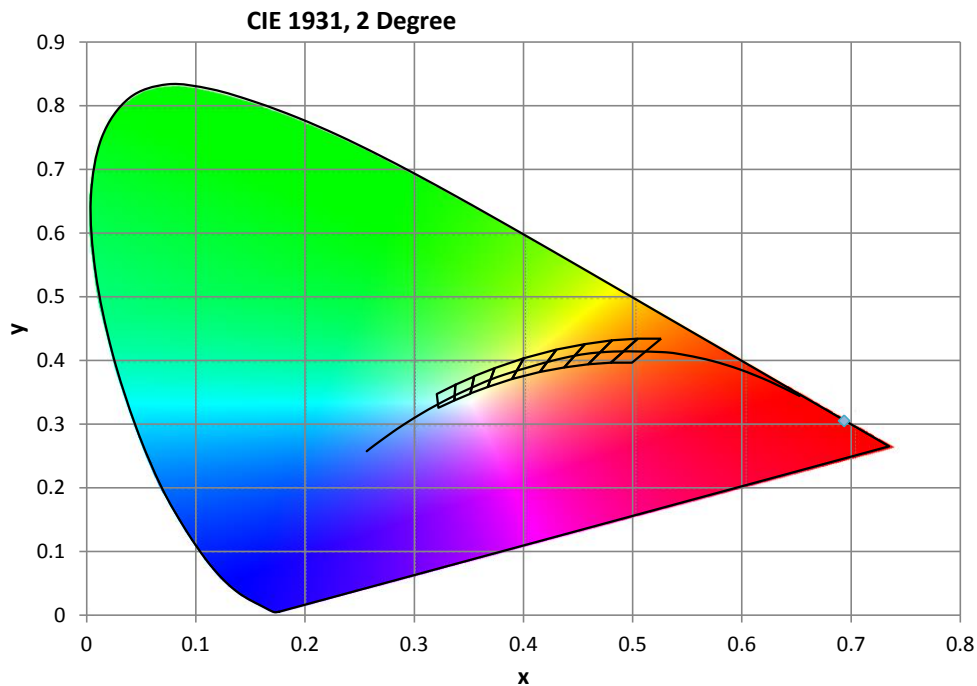
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	12.02 VDC	0.1669 A	2.006 W	N/A	N/A	N/A

Summary of Results

Total Output:	59 Lumens	Chromaticity (x):	0.6936
Efficacy:	29.3 lm/w	Chromaticity (y):	0.3054
Peak Wavelength:	632 nm	Chromaticity (u'):	0.5256
Dominant Wavelength:	621.5 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
STE 5
Rosenberg, TX 77471
United States

Catalog Number

ACUHUE-12CV27-4016 - GREEN

Order Number

11714176

Test Number

11714176.16

Test Date

2017-04-13

Prepared By

Kevin Rodriguez, Technician

Approved By

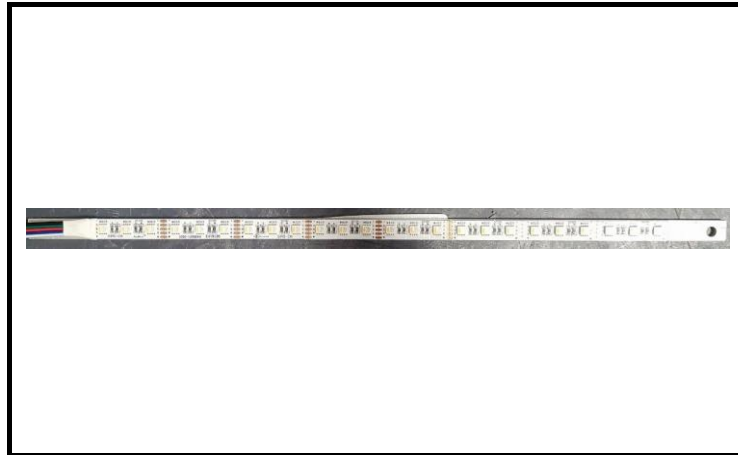
Justin Benner, Project Handler

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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:	351.3 mW
Luminous Flux:	160.1 lm
Luminaire Efficacy:	86.2 lm/W
Chromaticity (x):	0.1429
Chromaticity (y):	0.7237
Chromaticity (u):	0.0501
Chromaticity (v):	0.3809
Duv:	0.1640

Test Conditions

Test Temperature:	25.8 °C
Voltage:	12.02 VDC
Current:	0.1550 A
Power:	1.858 W

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



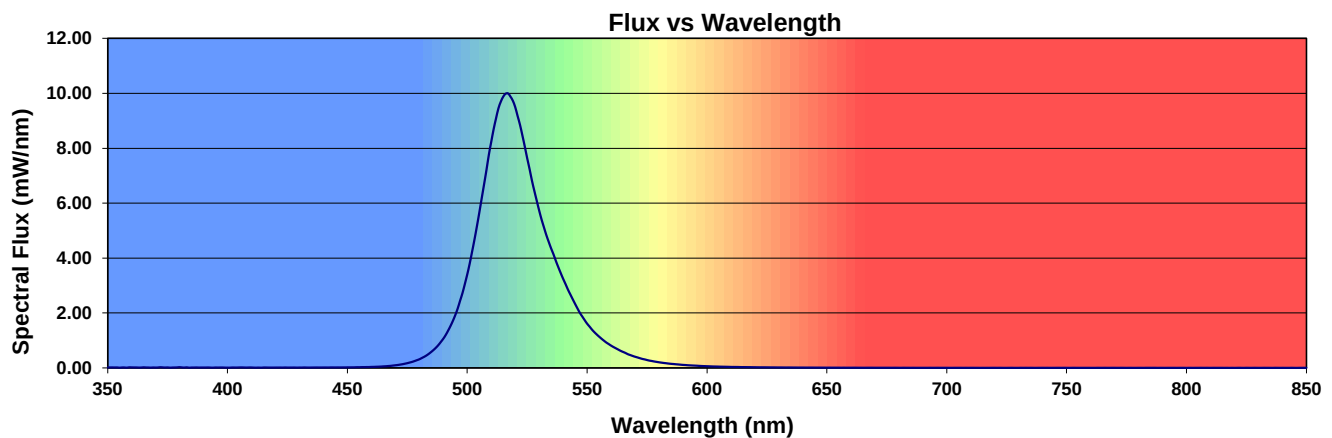
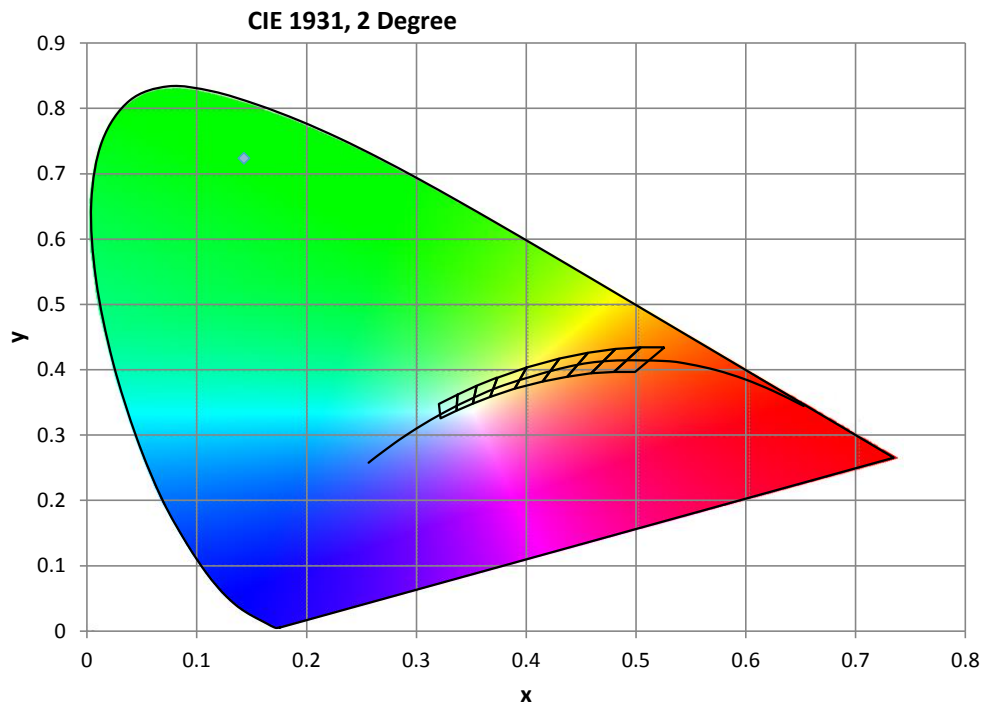
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	12.02 VDC	0.1550 A	1.858 W	N/A	N/A	N/A

Summary of Results

Total Output:	160 Lumens	Chromaticity (x):	0.1429
Efficacy:	86.2 lm/w	Chromaticity (y):	0.7237
Peak Wavelength:	516.6 nm	Chromaticity (u'):	0.0501
Dominant Wavelength:	521.9 nm	Chromaticity (v'):	0.5714
S/P Ratio:	3.151	Duv:	0.1640





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-12CV27-4016 - BLUE

Order Number

11714176

Test Number

11714176.17

Test Date

2017-04-13

Prepared By

Kevin Rodriguez, Technician

Approved By

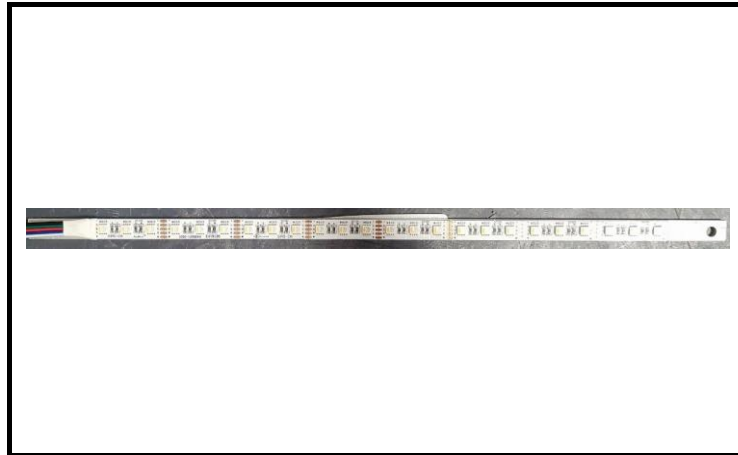
Justin Benner, Project Handler

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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:	567.9 mW
Luminous Flux:	34.47 lm
Luminaire Efficacy:	17.0 lm/W
Chromaticity (x):	0.1379
Chromaticity (y):	0.0515
Chromaticity (u):	0.165
Chromaticity (v):	0.0925
Duv:	0.0341

Test Conditions

Test Temperature:	25.3 °C
Voltage:	12.02 VDC
Current:	0.1683 A
Power:	2.022 W

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



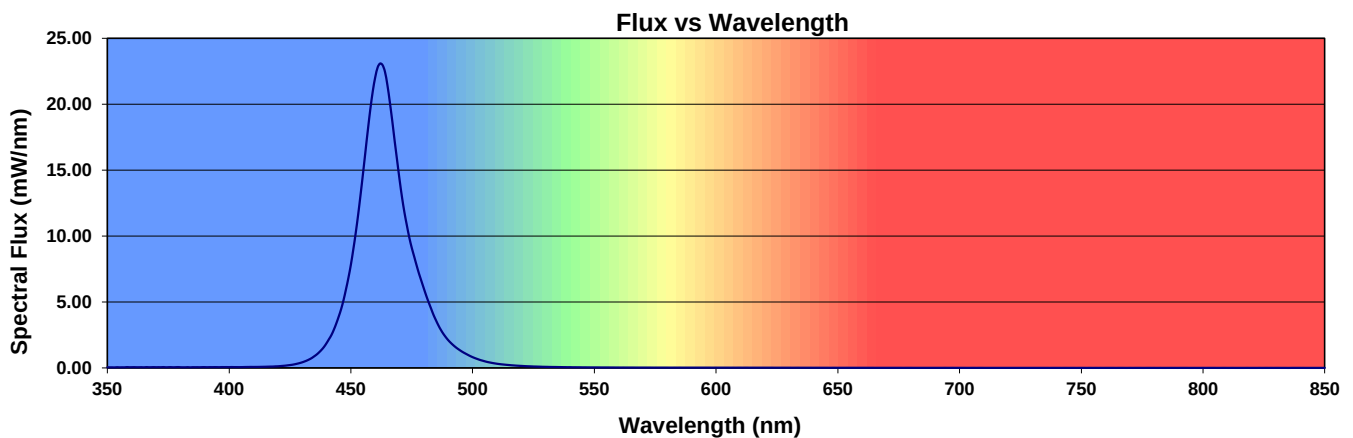
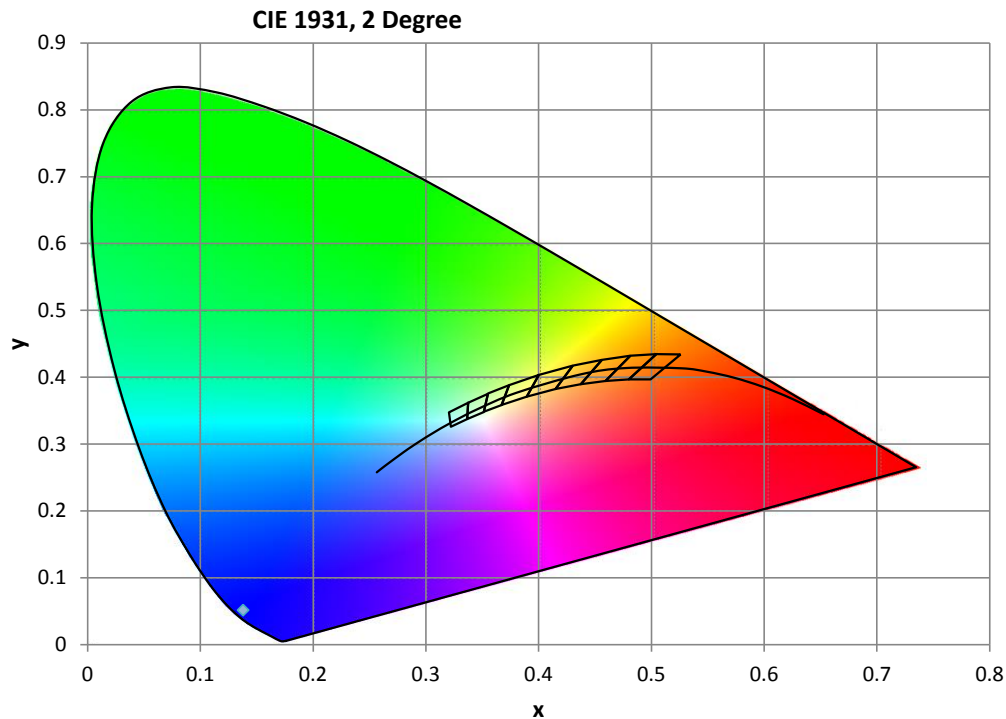
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	12.02 VDC	0.1683 A	2.022 W	N/A	N/A	N/A

Summary of Results

Total Output:	34 Lumens	Chromaticity (x):	0.1379
Efficacy:	17.0 lm/w	Chromaticity (y):	0.0515
Peak Wavelength:	462.2 nm	Chromaticity (u'):	0.1650
Dominant Wavelength:	466.4 nm	Chromaticity (v'):	0.1388
S/P Ratio:	17.03	Duv:	0.0341





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-12CV27-4016 - WHITE

Order Number

11714176

Test Number

11714176.18

Test Date

2017-04-13

Prepared By

Kevin Rodriguez, Technician

Approved By

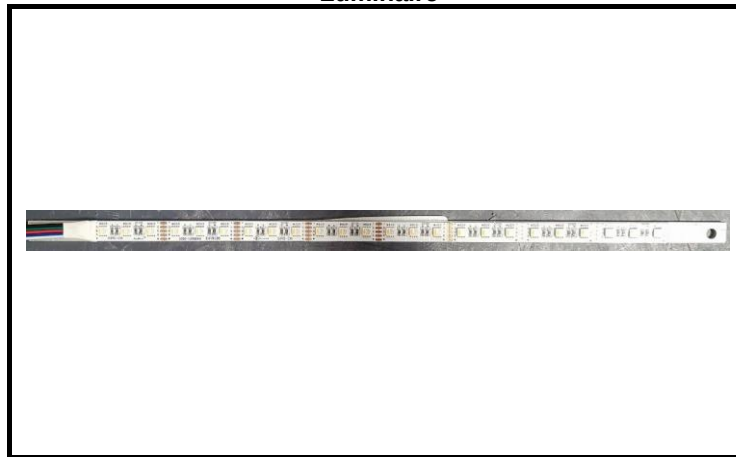
Justin Benner, Project Handler

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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:	523.9 mW
Luminous Flux:	172.4 lm
Luminaire Efficacy:	89.1 lm/W
CCT:	2686 K
CRI (Ra):	82.3
Chromaticity (x):	0.4637
Chromaticity (y):	0.4159
Chromaticity (u):	0.2626
Chromaticity (v):	0.3533
Duv:	0.0012

Test Conditions

Test Temperature:	25.3 °C
Voltage:	12.02 VDC
Current:	0.1609 A
Power:	1.934 W

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



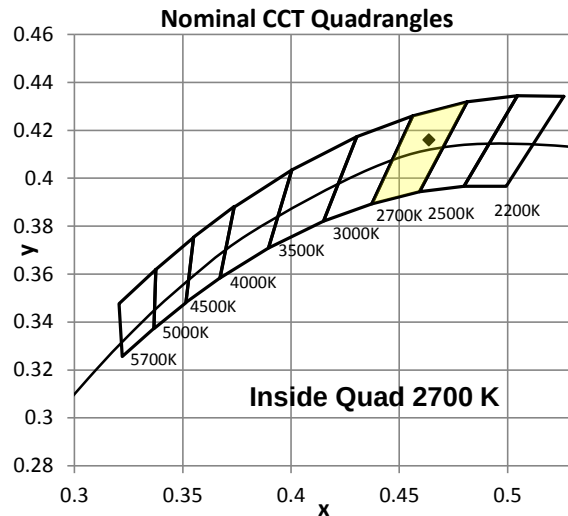
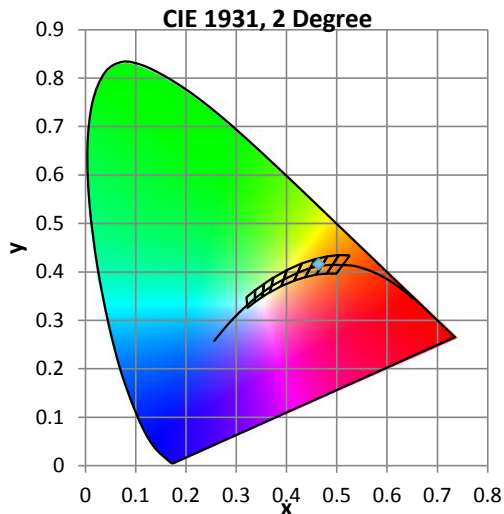
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	12.02 VDC	0.1609 A	1.934 W	N/A	N/A	N/A

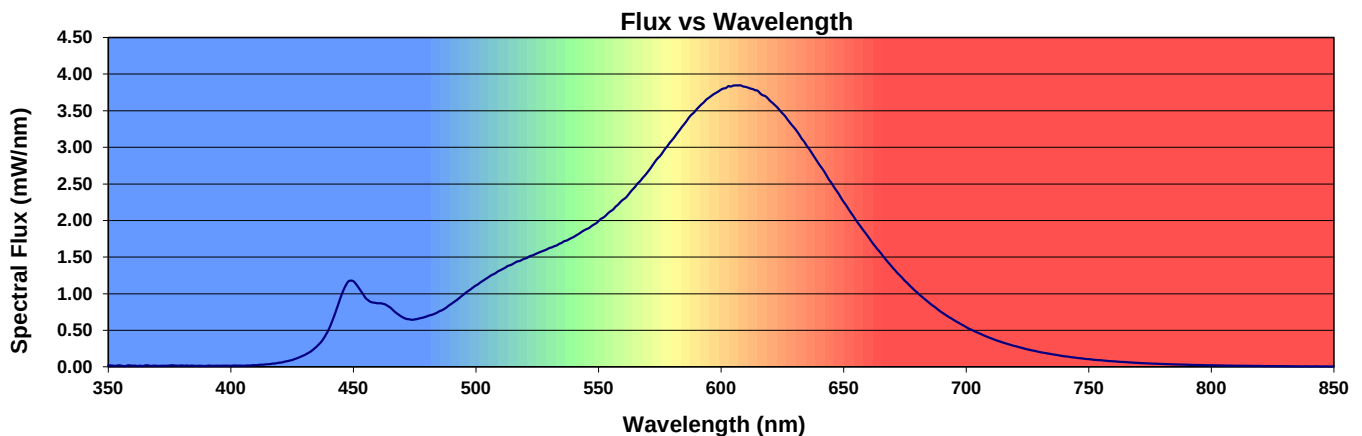
Summary of Results

Total Output:	172 Lumens	Chromaticity (x):	0.4637
Efficacy:	89.1 lm/w	Chromaticity (y):	0.4159
CCT:	2686 K	Chromaticity (u'):	0.2626
CRI (Ra):	82.3	Chromaticity (v'):	0.5299
CRI (R9):	3.7	TM-30 R _f :	84.3
Peak Wavelength:	606.6 nm	TM-30 R _g :	93.7
Dominant Wavelength:	583.8 nm	Duv:	0.0012
S/P Ratio:	1.22		



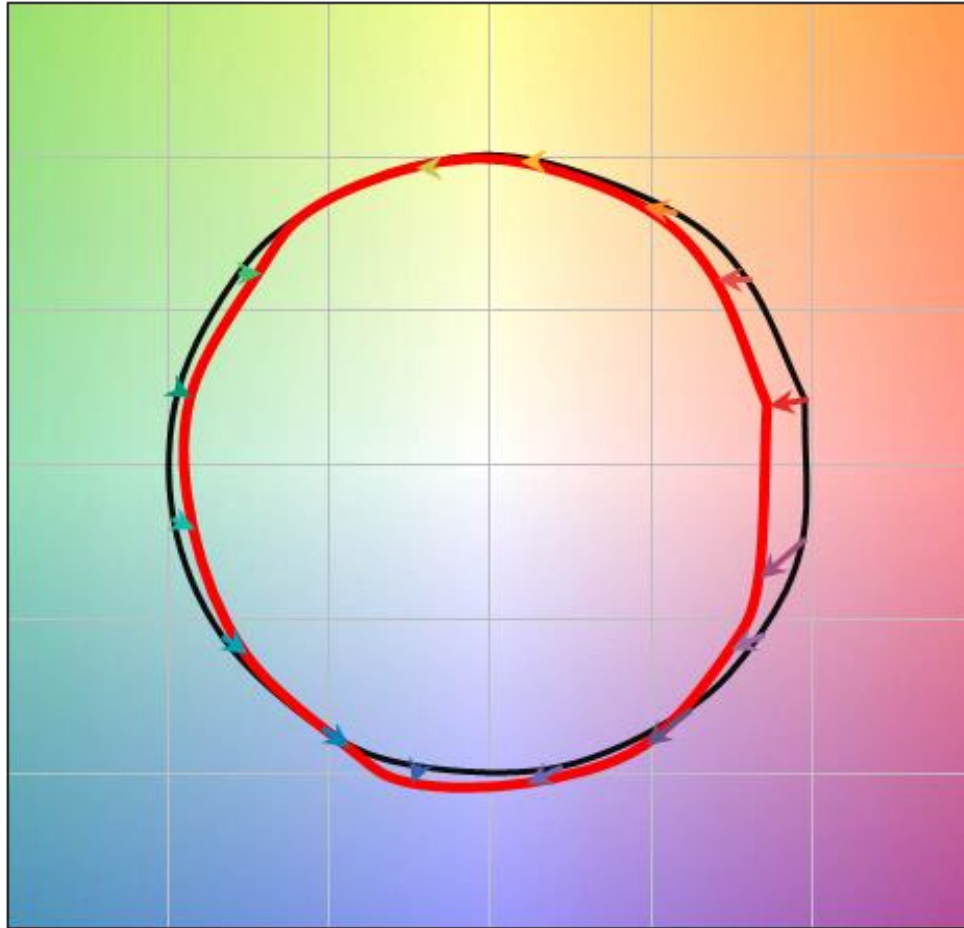
Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.3	81.0	92.4	94.0	80.3	81.7	92.8	80.7	55.4	3.7	83.8	80.7	78.9	83.8	97.2





COLOR VECTOR GRAPHIC



— Reference Illuminant — Test Source

HUE ANGLE ANALYSIS															
Hue Bin (<i>j</i>)	Count (<i>m</i>)	Average of Test SPD		Average of Ref SPD		Average Δ <i>E</i>	Average θ	Color Distortion Icon Parameters						<i>R</i> _{th<i>j</i>}	Change of Chroma
		a'	b'	a'	b'			da _{relative}	db _{relative}	path_x_ref	path_y_ref	path_x_test	path_y_test		
1	11	21.42	5.08	24.34	5.48	3.157	0.22	-0.12	-0.02	0.98	0.21	0.86	0.20	76	-12%
2	7	18.11	15.34	20.77	15.14	2.730	0.65	-0.10	0.01	0.80	0.60	0.69	0.61	79	-8%
3	6	12.39	23.09	14.98	22.64	2.693	0.97	-0.10	0.02	0.57	0.82	0.47	0.84	80	-4%
4	11	1.97	19.82	2.75	19.99	1.099	1.44	-0.04	-0.01	0.13	0.99	0.09	0.98	92	-2%
5	8	-3.28	16.19	-2.88	16.36	0.700	1.78	-0.02	-0.01	-0.21	0.98	-0.23	0.97	95	-1%
6	4	-10.92	16.10	-10.95	16.10	0.755	2.16	0.00	0.00	-0.56	0.83	-0.56	0.83	94	0%
7	4	-16.43	14.55	-17.90	14.40	1.515	2.47	0.06	0.01	-0.78	0.63	-0.72	0.63	89	-5%
8	4	-20.58	4.34	-21.39	4.86	1.116	2.89	0.04	-0.02	-0.97	0.24	-0.93	0.22	92	-4%
9	6	-22.56	-5.08	-24.05	-4.31	1.733	-2.97	0.06	-0.03	-0.99	-0.17	-0.92	-0.20	87	-5%
10	8	-15.85	-12.91	-17.35	-11.72	2.102	-2.55	0.07	-0.06	-0.83	-0.55	-0.76	-0.61	84	-3%
11	7	-8.92	-17.25	-10.38	-16.14	1.979	-2.12	0.08	-0.06	-0.52	-0.85	-0.44	-0.91	85	1%
12	5	-6.43	-22.42	-5.94	-21.23	1.982	-1.80	-0.02	-0.05	-0.23	-0.97	-0.25	-1.03	85	6%
13	4	2.05	-18.67	3.89	-17.73	2.182	-1.36	-0.10	-0.05	0.21	-0.98	0.11	-1.03	84	3%
14	4	7.96	-15.50	10.23	-13.56	3.138	-0.91	-0.13	-0.11	0.61	-0.79	0.48	-0.91	76	2%
15	3	17.34	-13.77	19.46	-12.70	2.466	-0.58	-0.09	-0.05	0.84	-0.55	0.75	-0.59	81	-5%
16	7	14.98	-6.01	17.42	-3.82	3.600	-0.24	-0.14	-0.12	0.97	-0.24	0.83	-0.36	73	-11%



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

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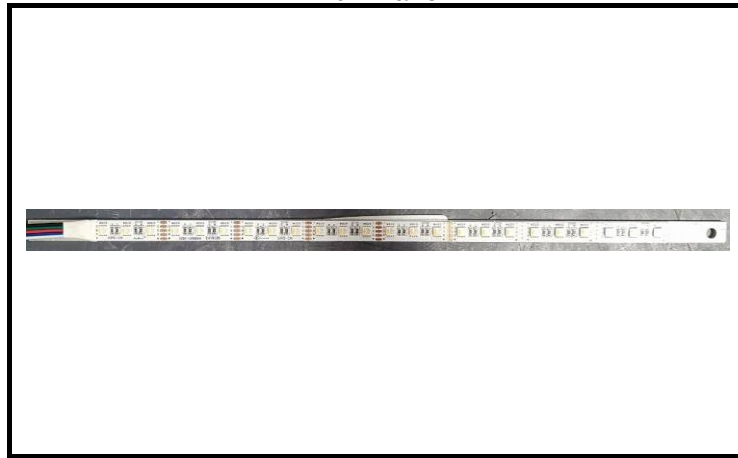
Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π 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)
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: 404 Lumens
Efficacy: 52.9 lm/w
CCT: 8200 K
CRI (Ra): 58.3

Distribution

Total Luminaire Output: 392.0 Lumens
Luminaire Efficacy: 50.4 lm/w
Maximum Candela: 127 Candela

Electrical Data at 12 VDC

Test Temperature: 24.3 °C
Voltage: 12.01 VDC
Current: 0.6351 A
Power: 7.630 W



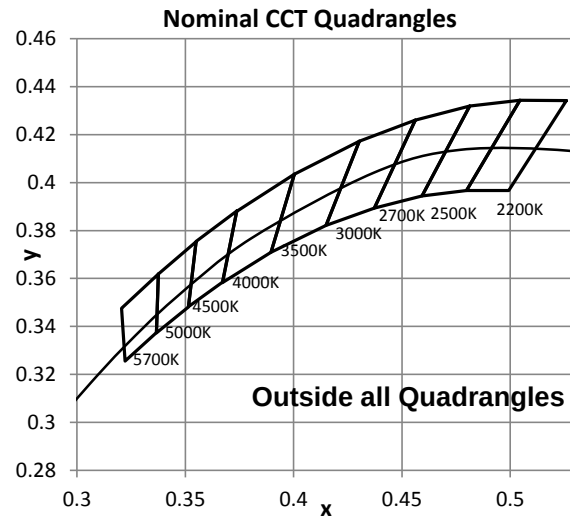
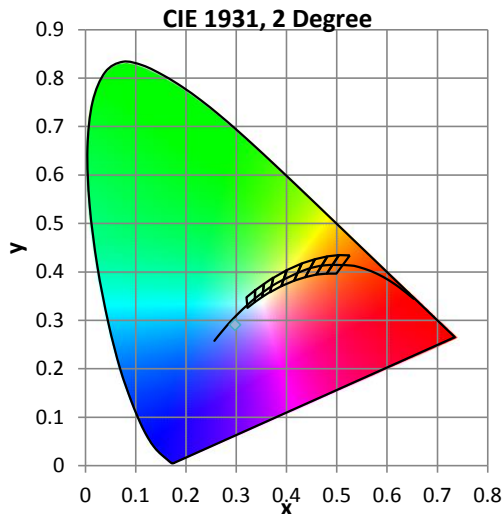
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	12.01 VDC	0.6351 A	7.630 W	N/A	N/A	N/A

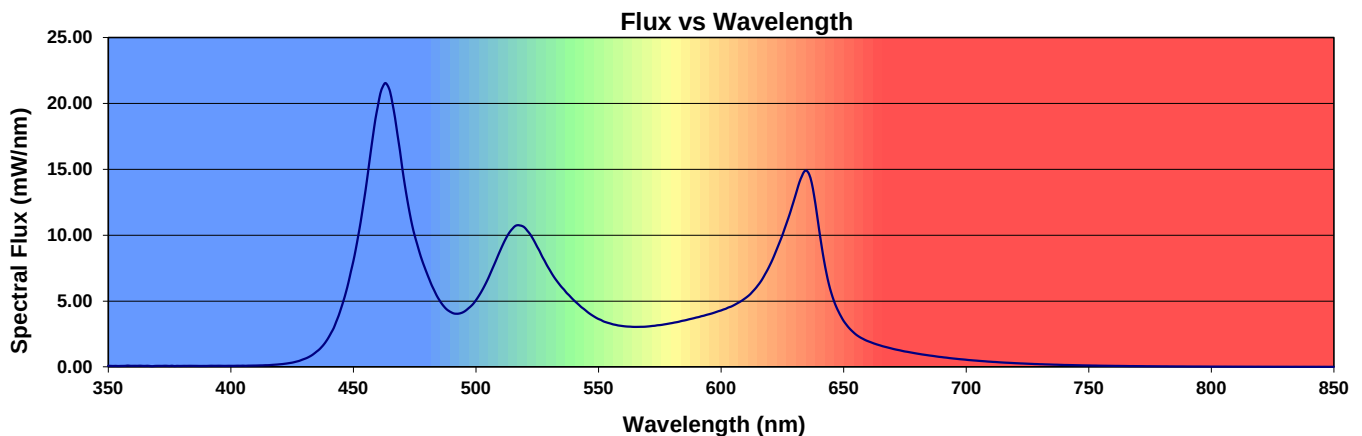
Summary of Results

Total Output:	404 Lumens	Chromaticity (x):	0.2974
Efficacy:	52.9 lm/w	Chromaticity (y):	0.2907
CCT:	8200 K	Chromaticity (u'):	0.2019
CRI (Ra):	58.3	Chromaticity (v'):	0.4439
CRI (R9):	-98.6	TM-30 R _f :	
Peak Wavelength:	463.1 nm	TM-30 R _g :	
Dominant Wavelength:	473.1 nm	Duv:	-0.0094
S/P Ratio:	3.064		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
58.3	43.2	65.7	85.4	54.3	53.9	59.5	73.5	31.0	-98.6	23.1	41.3	56.0	45.9	88.5





Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	11.99 VDC	0.6482 A	7.771 W	N/A	N/A	N/A

Summary of Results

Spacing Criteria

0-180: 1.30

90-270: 1.30

Total Lumen Output:

392.0 Lumens

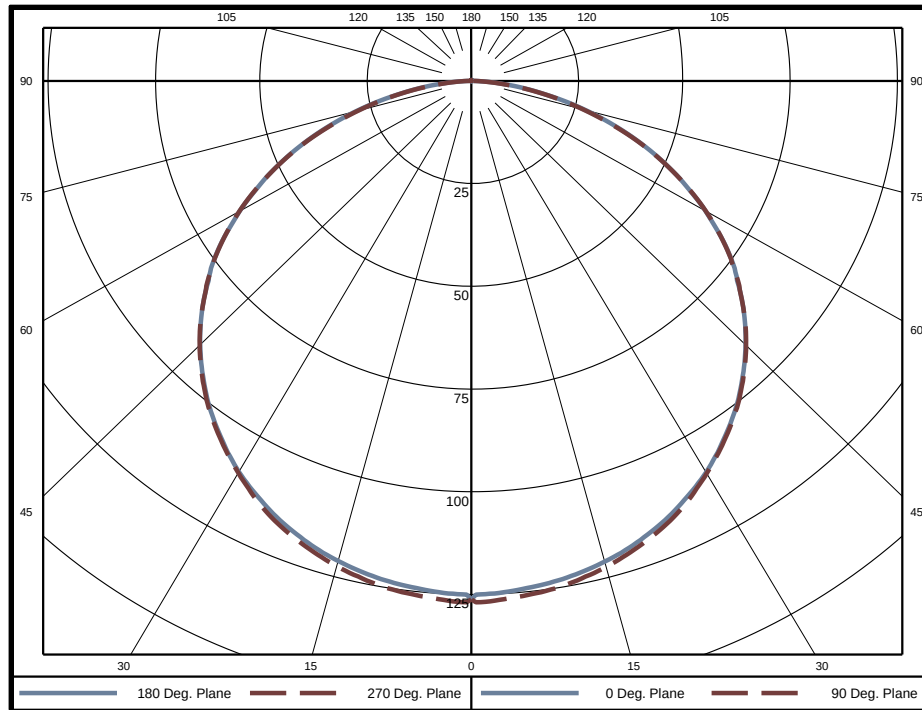
Luminaire Efficacy:

50.4 lm/w

Maximum Candela:

127 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.01	0.8%	60-65	28.30	7.2%	120-125	0.05	0.0%
5-10	8.92	2.3%	65-70	23.53	6.0%	125-130	0.05	0.0%
10-15	14.60	3.7%	70-75	17.82	4.5%	130-135	0.05	0.0%
15-20	19.87	5.1%	75-80	11.78	3.0%	135-140	0.05	0.0%
20-25	24.59	6.3%	80-85	6.02	1.5%	140-145	0.05	0.0%
25-30	28.56	7.3%	85-90	1.78	0.5%	145-150	0.05	0.0%
30-35	31.68	8.1%	90-95	0.19	0.0%	150-155	0.04	0.0%
35-40	33.94	8.7%	95-100	0.07	0.0%	155-160	0.04	0.0%
40-45	35.17	9.0%	100-105	0.05	0.0%	160-165	0.03	0.0%
45-50	35.29	9.0%	105-110	0.05	0.0%	165-170	0.02	0.0%
50-55	34.26	8.7%	110-115	0.05	0.0%	170-175	0.01	0.0%
55-60	31.95	8.2%	115-120	0.05	0.0%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	165	42.1%
0-60	302	77.0%
0-90	391	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	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2
	5	124.4	125.2	125.3	125.9	126.0	125.9	125.3	125.2	124.4	125.2	125.3	125.9	126.0	125.9	125.3
	10	123.1	123.9	124.0	124.6	124.7	124.6	124.0	123.9	123.1	123.9	124.0	124.6	124.7	124.6	124.0
	15	121.1	122.0	121.8	122.3	122.4	122.3	121.8	122.0	121.1	122.0	121.8	122.3	122.4	122.3	121.8
	20	118.2	119.3	118.9	119.4	119.3	119.4	118.9	119.3	118.2	119.3	118.9	119.4	119.3	119.4	118.9
	25	114.4	115.3	115.3	115.6	115.4	115.6	115.3	115.3	114.4	115.3	115.3	115.6	115.4	115.6	115.3
	30	109.9	110.5	110.4	110.5	110.2	110.5	110.4	110.5	109.9	110.5	110.4	110.5	110.2	110.5	110.4
	35	104.3	104.8	105.2	105.0	104.6	105.0	105.2	104.8	104.3	104.8	105.2	105.0	104.6	105.0	105.2
	40	97.9	98.7	98.8	98.6	98.2	98.6	98.8	98.7	97.9	98.7	98.8	98.6	98.2	98.6	98.8
	45	90.7	91.5	91.9	91.5	90.9	91.5	91.9	91.5	90.7	91.5	91.9	91.5	90.9	91.5	91.9
	50	82.6	83.2	83.5	83.3	82.6	83.3	83.5	83.2	82.6	83.2	83.5	83.3	82.6	83.3	83.5
	55	73.8	74.4	74.6	74.3	73.7	74.3	74.6	74.4	73.8	74.4	74.6	74.3	73.7	74.3	74.6
	60	63.2	63.8	64.2	63.9	63.3	63.9	64.2	63.8	63.2	63.8	64.2	63.9	63.3	63.9	64.2
	65	52.0	52.6	52.9	52.5	52.0	52.5	52.9	52.6	52.0	52.6	52.9	52.5	52.0	52.5	52.9
	70	40.2	40.6	40.7	40.2	39.9	40.2	40.7	40.6	40.2	40.6	40.7	40.2	39.9	40.2	40.6
	75	28.0	28.3	28.3	27.7	27.4	27.7	28.3	28.3	28.0	28.3	28.3	27.7	27.4	27.7	28.3
	80	16.1	16.4	16.5	16.1	15.9	16.1	16.5	16.4	16.1	16.4	16.5	16.1	15.9	16.1	16.5
	85	6.5	6.8	6.6	6.3	6.0	6.3	6.6	6.8	6.5	6.8	6.6	6.3	6.0	6.3	6.6
	90	0.5	1.2	1.2	1.1	1.0	1.1	1.2	1.2	0.5	1.2	1.2	1.1	1.0	1.1	1.2
	95	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2
	100	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
	105	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
	110	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
	115	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
	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)	Horizontal Angle (Degrees)			
	0	45	90	
	0	30100	30100	30100
	45	30600	31000	30650
	55	30660	31010	30620
	65	29360	29830	29320
	75	25750	26030	25250
	85	17800	18000	16470



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	466	466	466	466	455	455	455	455	435	435	435	416	416	416	399	399	399	391
1	425	405	388	372	414	396	381	366	379	366	354	364	353	343	350	341	333	325
2	385	351	324	301	374	344	319	297	330	308	290	317	299	283	305	290	277	268
3	350	307	274	248	340	301	270	246	289	263	241	278	255	237	268	249	232	224
4	319	271	236	209	310	266	233	207	256	227	204	246	221	201	238	216	198	189
5	293	241	205	179	285	237	203	177	228	198	175	220	194	173	213	190	171	163
6	270	217	181	155	262	213	179	154	206	175	153	199	172	151	192	169	150	142
7	250	196	161	136	243	193	159	136	186	156	135	181	154	133	175	151	132	124
8	233	178	144	121	226	176	143	121	170	141	120	165	139	119	161	136	118	110
9	217	164	131	109	211	161	130	108	156	128	108	152	126	107	148	124	106	99
10	203	151	119	98	198	149	118	98	145	117	97	141	115	97	137	113	96	89

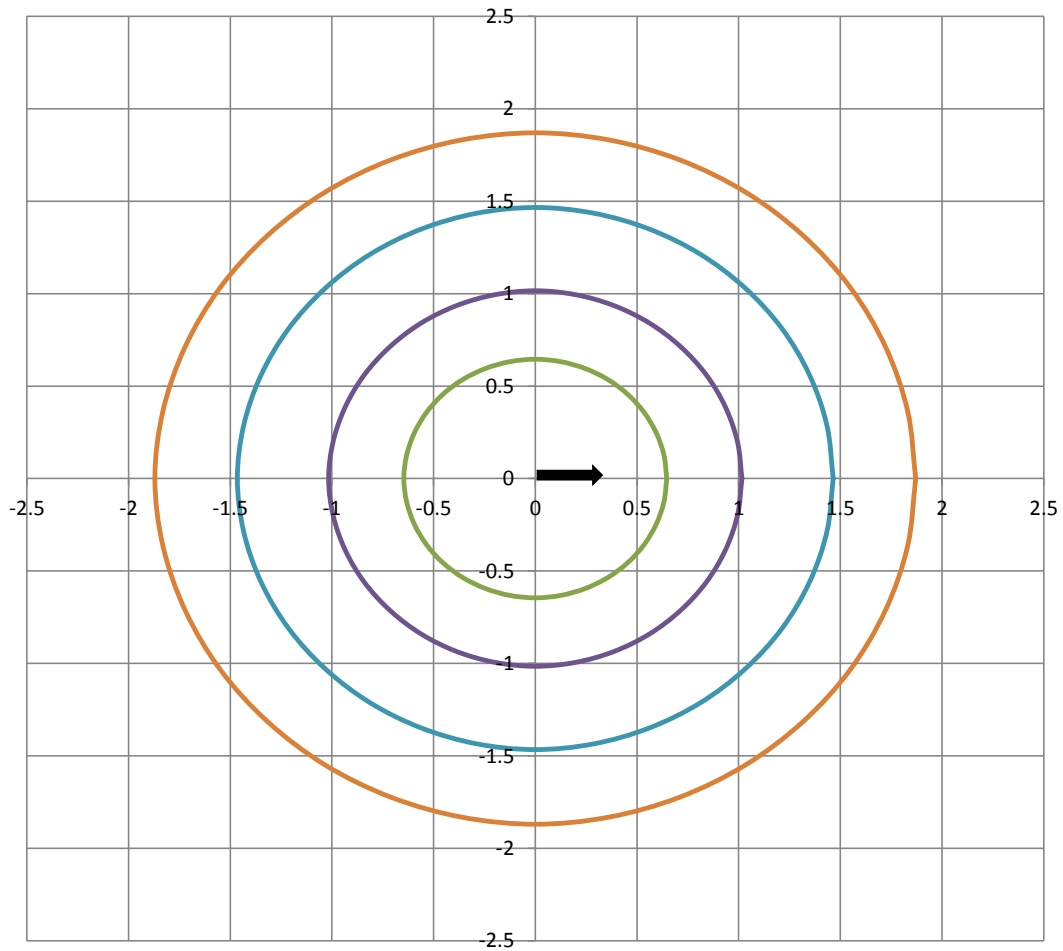
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	126.2 Candela
Central Cone Intensity:	126 Candela
Beam Flux:	303.8 Lumens
Beam Angle (0-180):	120.1 Degrees
Beam Angle (90-270):	120.2 Degrees
Field Angle (0-180):	163.5 Degrees
Field Angle (90-270):	163.0 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		7.89	5.20
6.00		3.51	7.80
8.00		1.97	10.4
10.0		1.26	13.0
12.0		0.876	15.6
14.0		0.644	18.2
16.0		0.493	20.8



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

