

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1065569

Luminaire Tested: **GLAN-SA2A-930-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065569
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4611.6 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

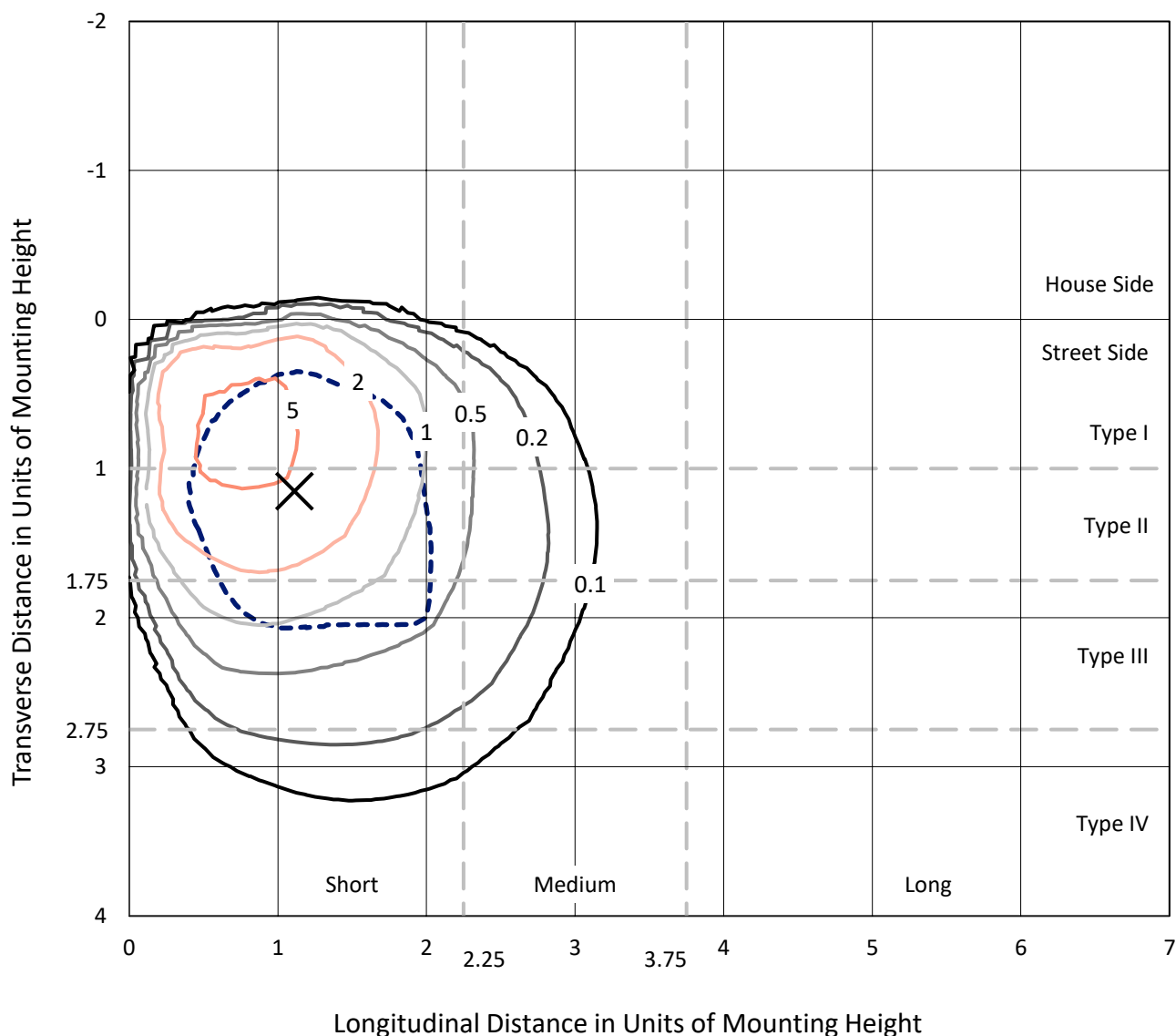
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

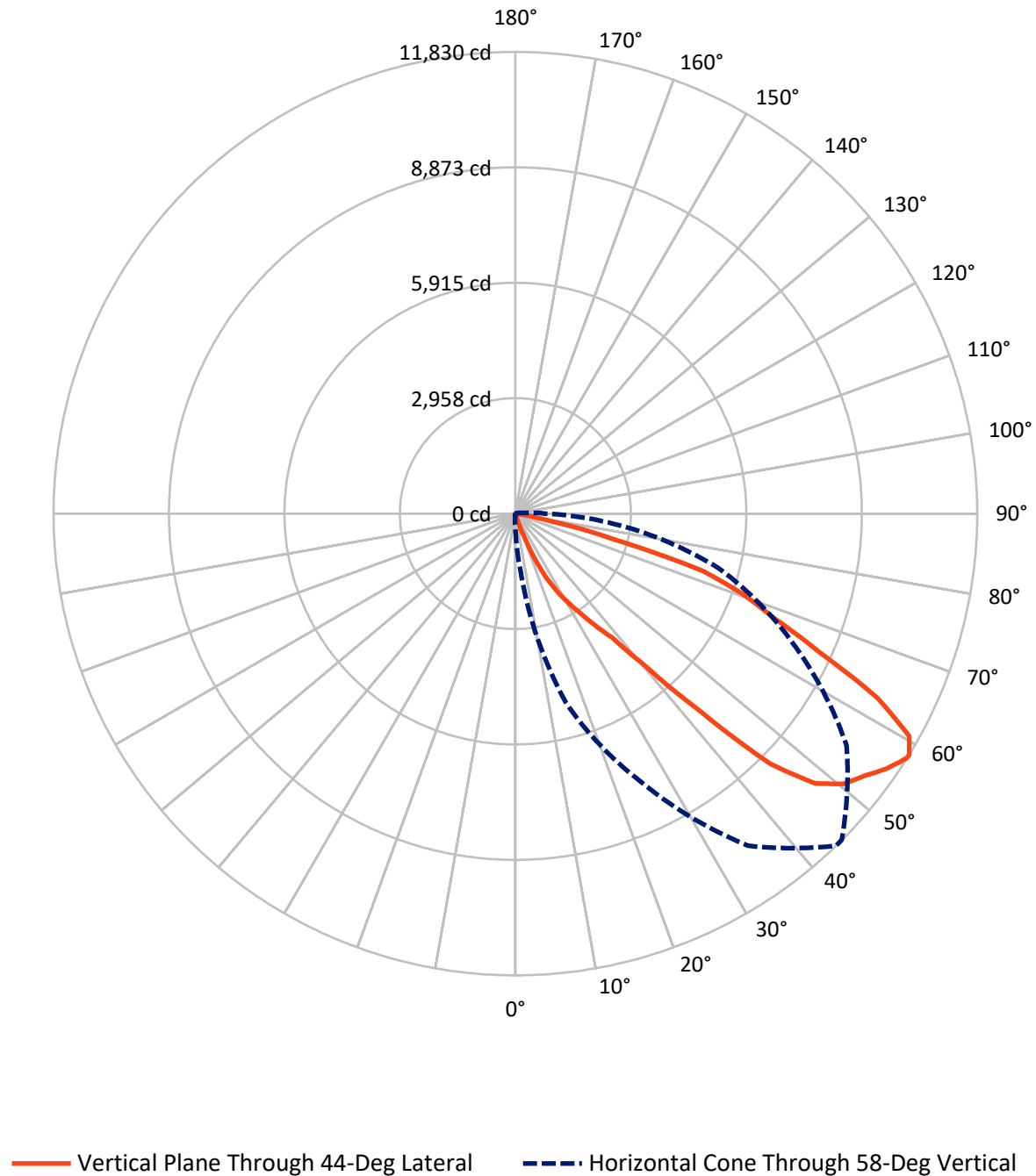


Based on 20 foot mounting height. Maximum calculated value = 8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31.5	0.0	31.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4580.1	0.0	4580.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	4611.6	0.0	4611.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.0
10°-20°	10.1	0.2
20°-30°	109.2	2.4
30°-40°	323.1	7.0
40°-50°	963.0	20.9
50°-60°	1528.0	33.1
60°-70°	1274.5	27.6
70°-80°	393.1	8.5
80°-90°	8.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4611.6	100.0
0°-180°	4611.6	100.0



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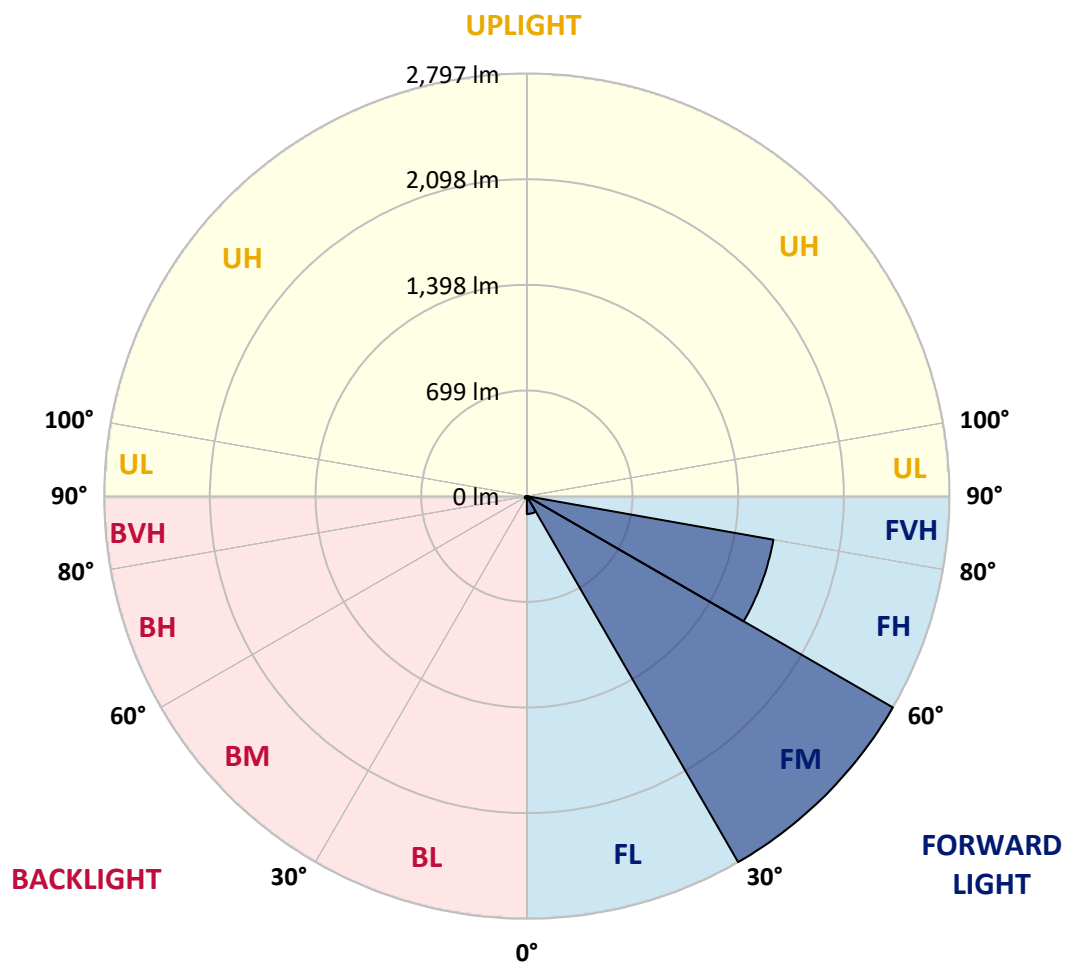
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.1	2.6			
FM	(30°-60°)	2796.8	60.6			
FH	(60°-80°)	1656.9	35.9			G1/1800
FVH	(80°-90°)	8.3	0.2			G0/10
BL	(0°-30°)	3.1	0.1	B0/110		
BM	(30°-60°)	17.2	0.4	B0/220		
BH	(60°-80°)	10.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
2.5°	26.1	26.1	25.1	23.7	22.3	20.9	20.6	19.9	19.5	19.2
5°	27.2	27.2	26.8	25.8	24.4	23.3	23.3	22.3	21.6	20.9
7.5°	27.9	28.2	28.9	28.6	27.9	26.8	26.8	26.1	25.1	23.3
10°	28.9	30.0	31.4	32.0	32.4	32.4	32.0	31.7	30.0	27.5
12.5°	30.0	32.0	35.5	39.0	41.1	43.9	43.5	42.8	38.3	33.1
15°	32.0	35.2	42.5	52.6	68.3	78.0	81.9	78.4	63.4	44.6
17.5°	34.5	39.7	61.7	110.1	180.5	213.9	234.1	217.7	144.2	84.7
20°	36.9	48.4	114.6	285.3	468.2	577.6	607.9	560.5	359.9	161.3
22.5°	41.1	67.9	232.4	589.8	1008.9	1172.9	1203.9	1052.4	679.7	318.4
25°	49.8	98.6	400.6	961.1	1505.6	1782.6	1769.7	1571.1	1102.6	508.6
27.5°	62.4	143.5	605.8	1365.6	1981.5	2225.7	2255.0	2009.4	1469.7	747.9
30°	80.5	198.9	826.0	1689.6	2363.0	2627.0	2631.9	2377.9	1798.3	958.0
32.5°	97.9	251.2	1018.6	2002.7	2738.8	3028.3	3049.9	2737.4	2043.5	1176.8
35°	111.1	285.3	1213.7	2278.0	3117.9	3516.7	3515.3	3144.3	2334.0	1372.2
37.5°	112.2	319.4	1390.3	2559.4	3597.9	4044.5	4088.7	3679.8	2685.2	1614.0
40°	109.7	357.8	1614.0	2998.4	4462.9	5148.1	5187.1	4671.6	3389.6	2027.8
42.5°	112.5	424.3	1977.0	3809.0	5899.2	6883.3	6958.6	6416.5	4684.4	2872.3
45°	127.2	549.4	2737.4	5165.2	7946.5	9146.3	9121.2	8340.5	6191.1	4157.7
47.5°	175.6	855.6	3864.7	6485.1	9255.0	10323.4	10345.0	9390.8	7070.4	5146.0
50°	270.0	1309.2	4812.0	7182.9	9817.6	10889.5	10869.3	9766.7	7404.5	5632.7
52.5°	351.2	1637.3	5287.1	7427.8	9889.7	11169.2	11167.8	9865.7	7456.4	5674.5
55°	371.4	1662.0	5291.0	7441.1	10051.3	11535.4	11581.4	10109.2	7523.6	5492.0
57.5°	363.3	1471.5	5070.1	7517.7	10339.1	11818.6	11821.0	10345.0	7694.3	5380.1
58°	356.4	1441.5	5025.5	7561.2	10388.6	11830.4	11824.5	10355.8	7833.3	5376.0
60°	317.4	1251.7	4851.7	7672.4	10315.1	11587.3	11531.9	10120.0	7812.8	5333.1
62.5°	249.4	976.5	4680.6	7543.8	9527.1	10410.2	10433.2	8959.6	7122.3	5083.3
65°	198.6	727.7	4323.9	6617.2	7845.2	8548.8	8634.5	7285.7	5944.8	4304.4
67.5°	158.2	526.0	3627.2	5268.3	6207.8	7134.8	7197.2	6116.9	4605.7	3298.0
70°	128.5	355.7	2503.7	3852.9	5120.3	6162.6	6166.4	5081.6	3437.7	2160.9
72.5°	113.9	246.3	1453.4	2809.9	4151.8	5021.7	4920.3	4123.6	2642.0	1279.9
75°	98.6	163.4	712.8	1717.8	2517.3	2534.3	2573.0	1912.9	1320.6	608.6
77.5°	81.2	116.0	280.8	469.2	754.9	966.4	1002.2	759.4	439.3	149.8
80°	55.7	55.0	75.6	143.9	216.0	270.7	252.6	195.4	115.0	57.5
82.5°	24.0	26.1	34.1	41.1	33.4	32.4	31.0	19.9	15.3	11.8
85°	7.7	7.0	7.3	7.3	5.9	4.5	4.5	2.1	0.0	0.0
87.5°	3.8	3.1	3.1	2.8	1.7	0.7	0.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
20.2	0°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
18.8	2.5°	18.5	18.5	17.8	17.1	16.7	16.0	15.7	15.3	15.0	14.6
20.2	5°	19.5	19.2	18.1	17.1	16.0	15.0	14.3	13.6	12.9	12.5
22.3	7.5°	21.3	20.6	18.5	16.7	15.3	13.9	13.2	12.2	11.5	10.5
24.7	10°	23.3	21.9	19.2	17.1	15.0	13.2	12.2	11.1	10.1	8.7
28.2	12.5°	26.1	23.7	20.2	16.7	14.3	12.2	11.1	9.8	8.7	7.7
32.7	15°	28.6	25.4	20.6	16.7	13.6	11.1	9.8	8.4	7.3	5.9
41.1	17.5°	32.0	26.8	20.2	15.7	12.5	9.8	8.4	7.3	5.6	3.5
61.0	20°	38.0	27.9	19.5	14.6	10.8	8.0	6.3	4.9	2.4	0.7
91.6	22.5°	47.4	30.7	18.8	13.2	9.4	6.3	4.2	1.7	0.0	0.0
139.3	25°	65.5	35.5	18.8	12.5	8.4	4.5	1.4	0.0	0.0	0.0
197.9	27.5°	87.1	42.2	18.8	10.8	6.6	2.4	0.0	0.0	0.0	0.0
269.6	30°	109.0	49.5	18.8	9.4	5.2	0.3	0.0	0.0	0.0	0.0
332.0	32.5°	129.9	55.7	19.2	8.0	3.5	0.0	0.0	0.0	0.0	0.0
418.4	35°	151.2	56.8	18.8	7.0	2.1	0.0	0.0	0.0	0.0	0.0
524.3	37.5°	178.4	54.7	17.8	6.3	1.0	0.0	0.0	0.0	0.0	0.0
689.8	40°	219.5	55.7	16.7	5.9	0.3	0.0	0.0	0.0	0.0	0.0
984.8	42.5°	295.4	60.3	15.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0
1568.7	45°	510.7	80.8	13.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0
2354.9	47.5°	844.8	145.3	13.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
2836.7	50°	1078.2	182.9	14.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0
2897.0	52.5°	1076.4	203.8	15.0	7.0	1.4	0.0	0.0	0.0	0.0	0.0
2670.2	55°	957.0	207.6	16.0	7.7	4.5	0.0	0.0	0.0	0.0	0.0
2294.7	57.5°	799.8	189.5	18.5	9.4	8.4	0.0	0.0	0.0	0.0	0.0
2235.8	58°	772.0	181.1	19.2	9.8	9.1	0.0	0.0	0.0	0.0	0.0
1939.3	60°	632.6	147.7	24.4	12.2	12.2	0.0	0.0	0.0	0.0	0.0
1589.9	62.5°	436.8	128.9	27.9	15.7	12.5	0.0	0.0	0.0	0.0	0.0
1172.2	65°	309.0	116.4	30.3	16.7	10.1	0.0	0.0	0.0	0.0	0.0
832.9	67.5°	231.0	107.3	33.4	17.1	5.2	0.0	0.0	0.0	0.0	0.0
522.5	70°	177.0	100.7	41.1	18.1	1.4	0.0	0.0	0.0	0.0	0.0
311.4	72.5°	144.2	93.0	49.8	18.8	0.0	0.0	0.0	0.0	0.0	0.0
186.7	75°	119.5	84.0	48.1	20.6	0.0	0.0	0.0	0.0	0.0	0.0
99.6	77.5°	79.4	65.1	43.9	20.6	0.0	0.0	0.0	0.0	0.0	0.0
35.5	80°	27.9	25.8	34.1	18.1	0.0	0.0	0.0	0.0	0.0	0.0
7.3	82.5°	4.2	3.5	4.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
20.2	0°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
14.3	2.5°	14.3	14.3	13.9	14.3	14.3	15.0	16.7	19.2	21.9	23.0
12.2	5°	11.8	11.5	11.1	11.1	11.1	12.2	13.6	16.4	19.5	20.9
10.1	7.5°	9.8	9.4	9.1	8.7	8.7	9.4	11.1	14.3	17.4	18.8
8.4	10°	8.0	7.3	7.0	6.6	6.6	7.3	9.1	12.2	15.7	17.1
7.0	12.5°	6.6	5.6	4.9	4.5	4.2	5.2	7.0	9.8	13.6	15.3
5.2	15°	4.5	3.5	2.4	2.1	1.7	2.8	4.5	7.7	11.5	13.6
2.8	17.5°	2.4	1.0	0.3	0.0	0.0	0.7	2.1	5.6	9.4	11.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.0	8.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.2	5.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
20.2	0°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
24.0	2.5°	24.7	24.4	23.7	23.0	23.0	23.0	24.0	25.1	26.1	26.1
21.6	5°	23.0	23.0	22.6	21.9	21.9	22.3	23.7	25.4	26.8	27.2
19.9	7.5°	21.3	21.9	21.3	20.9	21.3	21.6	23.0	25.1	27.2	27.9
18.5	10°	20.2	20.6	20.6	20.2	20.2	20.9	22.3	25.1	27.9	28.9
16.7	12.5°	18.8	19.5	19.2	19.2	19.2	19.9	21.6	24.7	28.6	30.0
15.0	15°	17.4	18.5	18.5	18.1	18.1	18.5	20.9	24.4	29.6	32.0
12.9	17.5°	16.0	17.1	17.4	16.7	16.7	17.4	19.9	24.4	30.3	34.5
10.5	20°	13.2	15.0	16.0	15.0	15.0	15.7	18.1	23.0	30.7	36.9
7.7	22.5°	10.5	12.2	13.6	13.2	13.2	13.6	16.7	21.9	31.0	41.1
4.5	25°	7.7	9.4	10.5	11.1	11.1	12.2	15.3	21.3	32.4	49.8
2.1	27.5°	4.5	6.6	8.0	8.7	9.1	10.5	14.3	20.6	34.8	62.4
0.0	30°	2.1	3.8	5.6	7.0	7.0	9.4	13.2	19.9	38.0	80.5
0.0	32.5°	0.0	1.7	2.8	4.9	5.2	7.7	12.2	19.2	42.5	97.9
0.0	35°	0.0	0.0	1.4	3.8	3.8	6.3	11.1	18.5	49.5	111.1
0.0	37.5°	0.0	0.0	0.0	2.8	3.1	5.6	10.8	18.1	50.9	112.2
0.0	40°	0.0	0.0	0.0	2.1	2.4	5.2	10.8	18.5	46.0	109.7
0.0	42.5°	0.0	0.0	0.0	1.4	1.7	5.2	10.8	19.2	41.5	112.5
0.0	45°	0.0	0.0	0.0	1.0	1.4	5.6	10.5	18.8	39.0	127.2
0.0	47.5°	0.0	0.0	0.0	1.4	2.1	5.6	10.1	18.5	39.4	175.6
0.0	50°	0.0	0.0	0.0	1.7	2.4	5.6	10.5	17.8	43.2	270.0
0.0	52.5°	0.0	0.0	0.0	1.4	2.1	6.3	11.5	17.4	47.0	351.2
0.0	55°	0.0	0.0	0.0	0.3	1.0	8.0	12.5	17.4	53.0	371.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	9.1	14.3	18.5	62.7	363.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	9.1	14.6	18.5	63.4	356.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	9.1	16.0	20.6	68.3	317.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	7.7	19.2	25.8	71.1	249.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.3	22.6	28.2	73.2	198.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	5.9	23.3	28.6	74.2	158.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.3	23.0	30.7	77.7	128.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.0	20.9	33.8	77.7	113.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	7.3	19.5	38.0	70.7	98.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.0	19.2	44.2	63.1	81.2
0.0	80°	0.7	1.0	1.0	0.7	0.7	5.9	18.8	44.9	53.6	55.7
0.3	82.5°	2.1	2.8	2.4	1.7	1.7	5.2	16.7	37.6	27.9	24.0
2.1	85°	3.8	4.5	4.5	3.8	3.8	4.9	10.5	13.6	9.4	7.7
3.8	87.5°	5.2	5.9	5.9	5.2	5.2	4.9	4.5	4.2	3.8	3.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

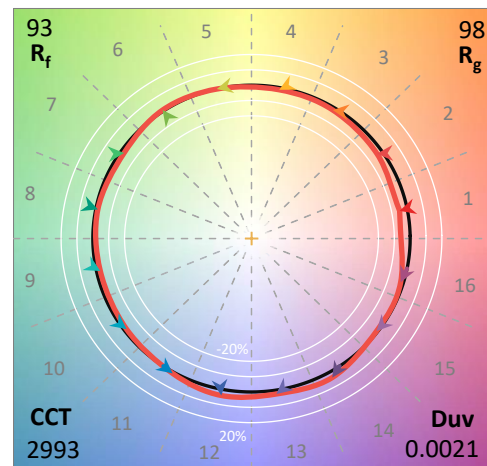
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

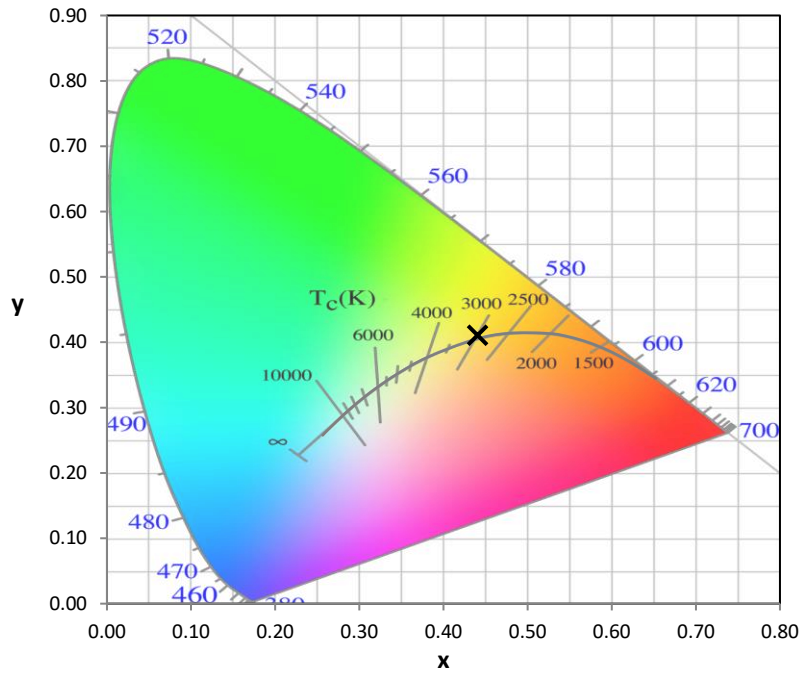
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

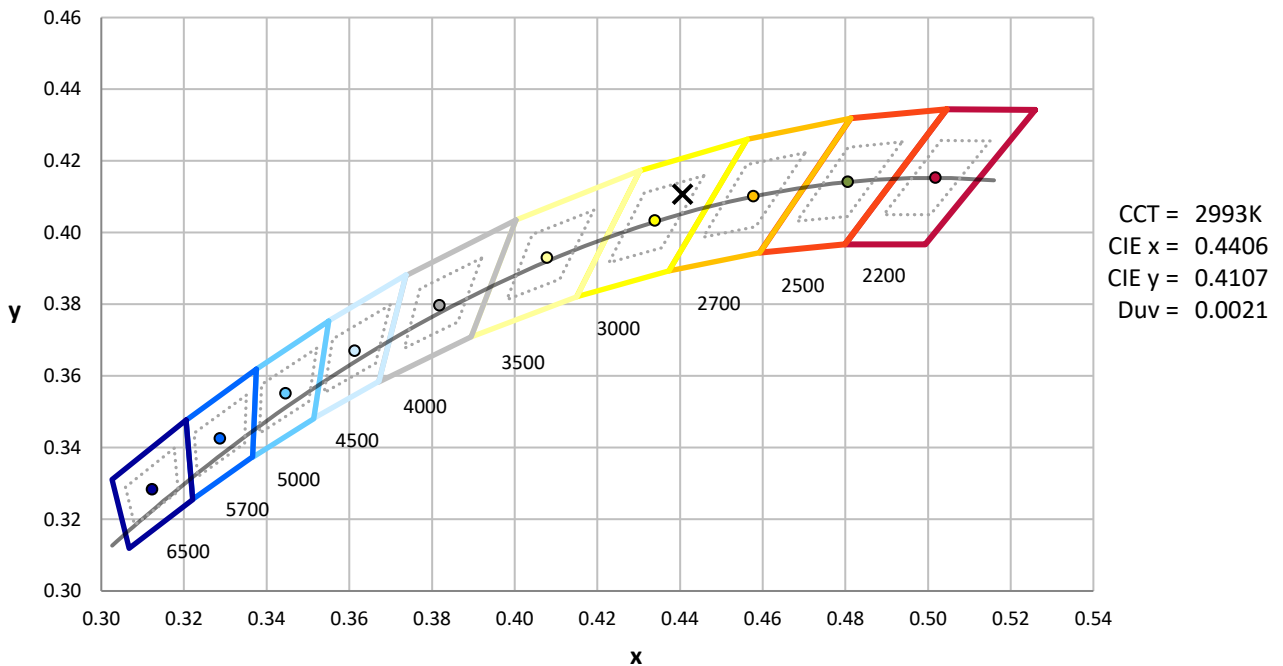
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-14

CIE 1931 Chromaticity Diagram



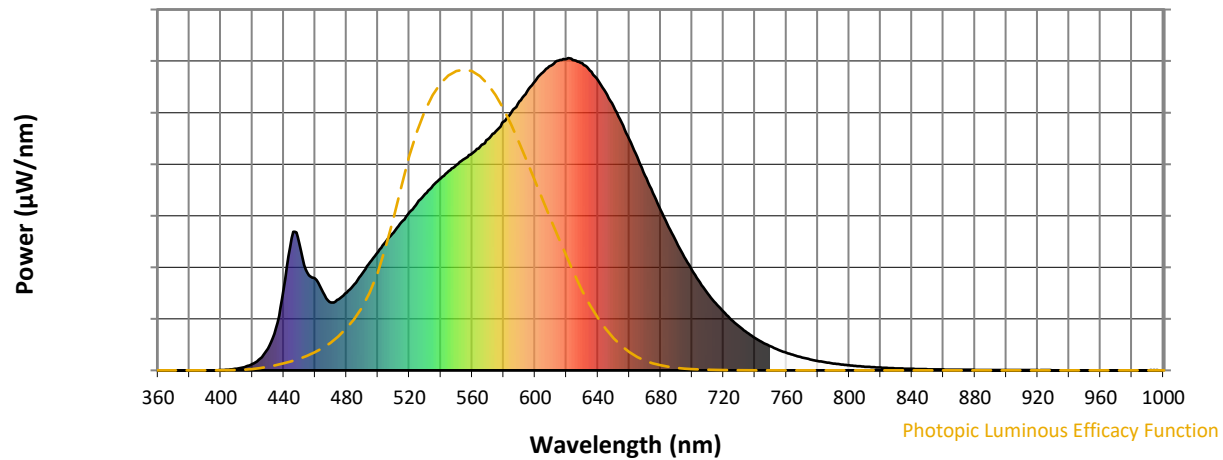
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

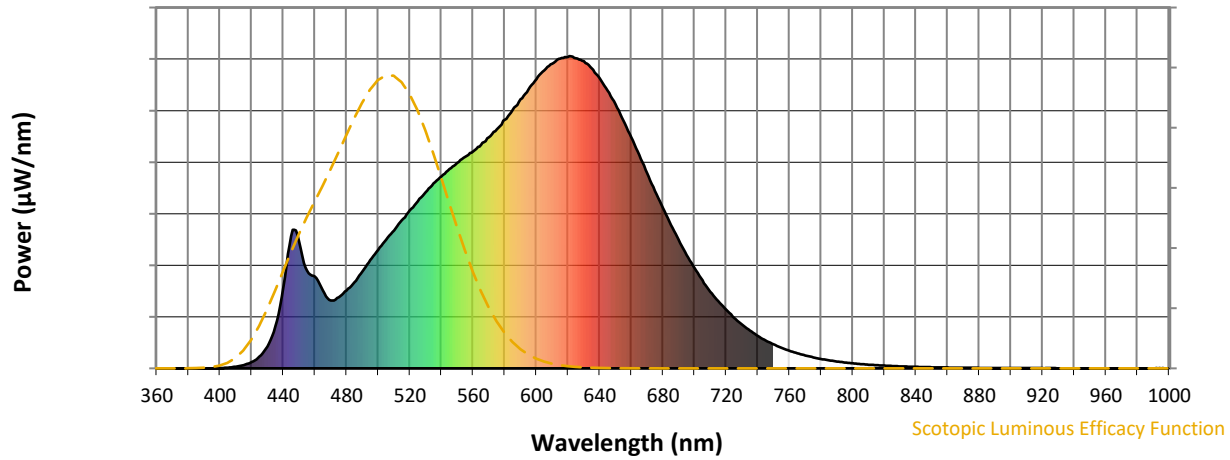


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



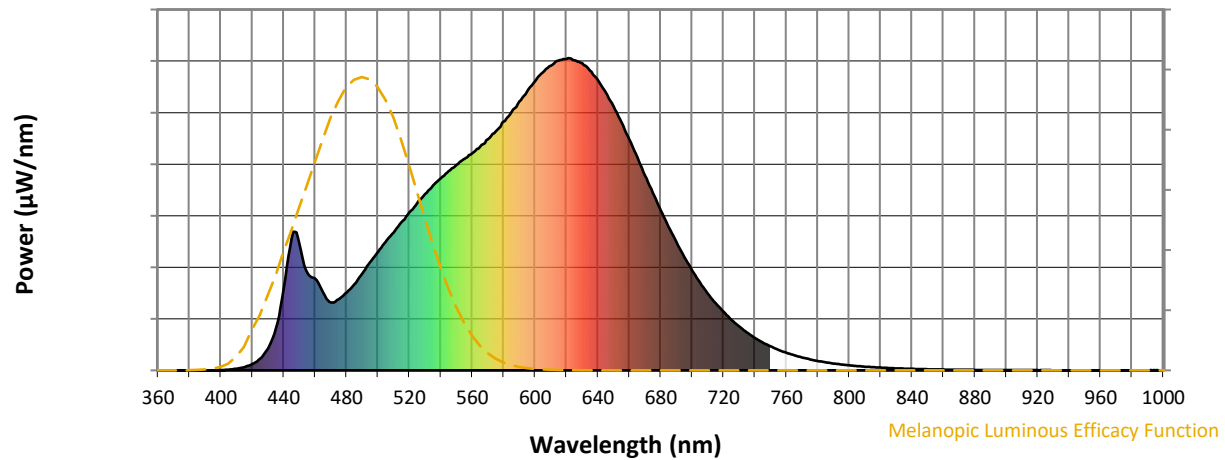
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

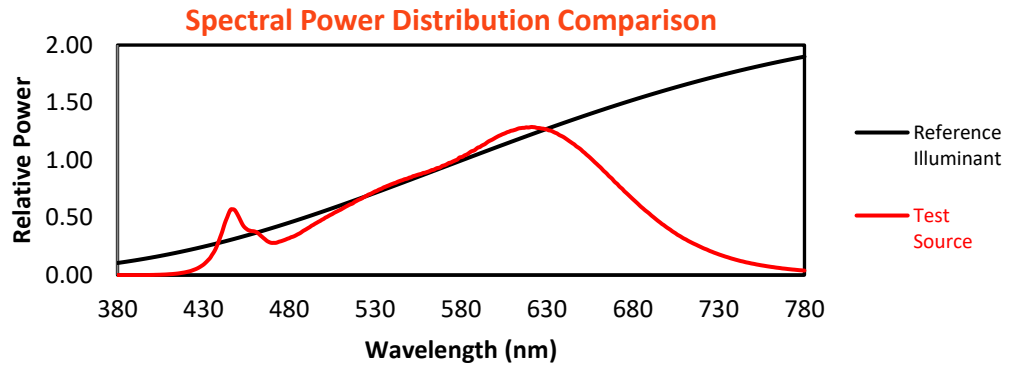
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

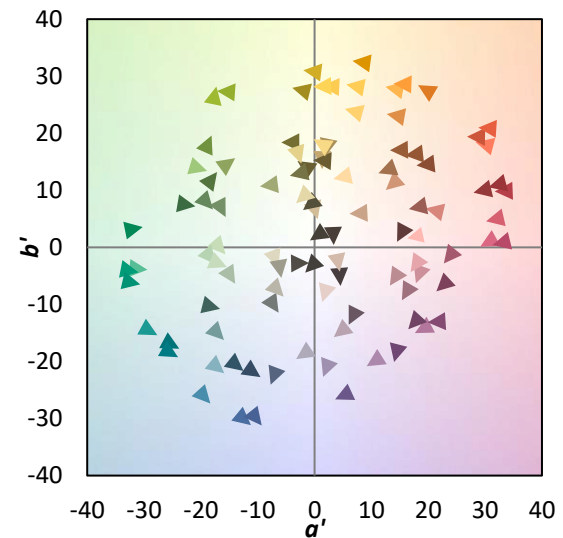
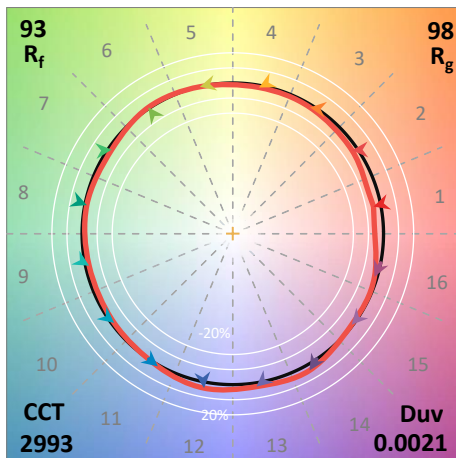
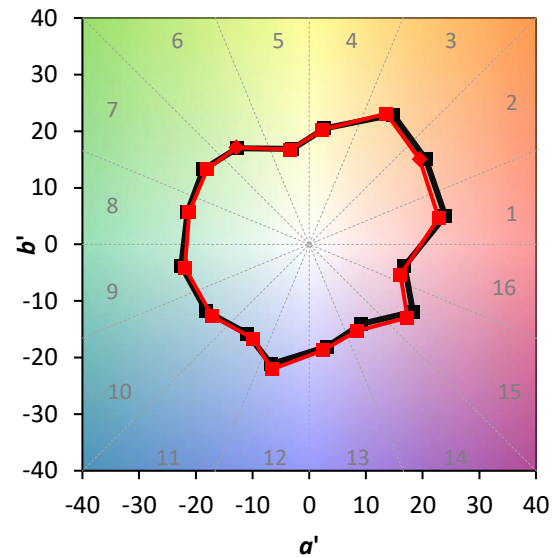
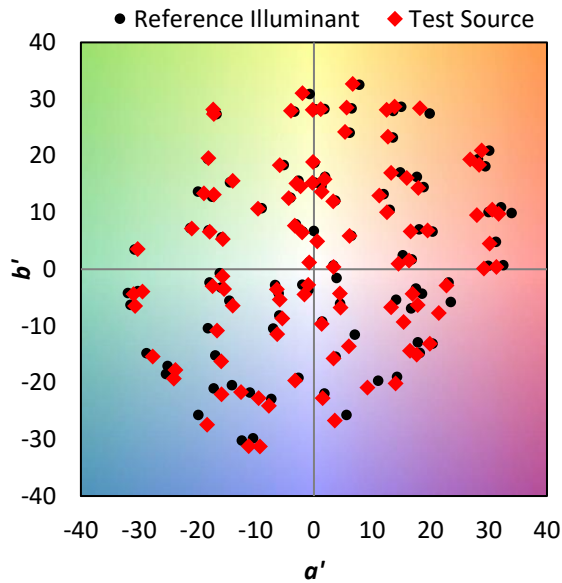
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

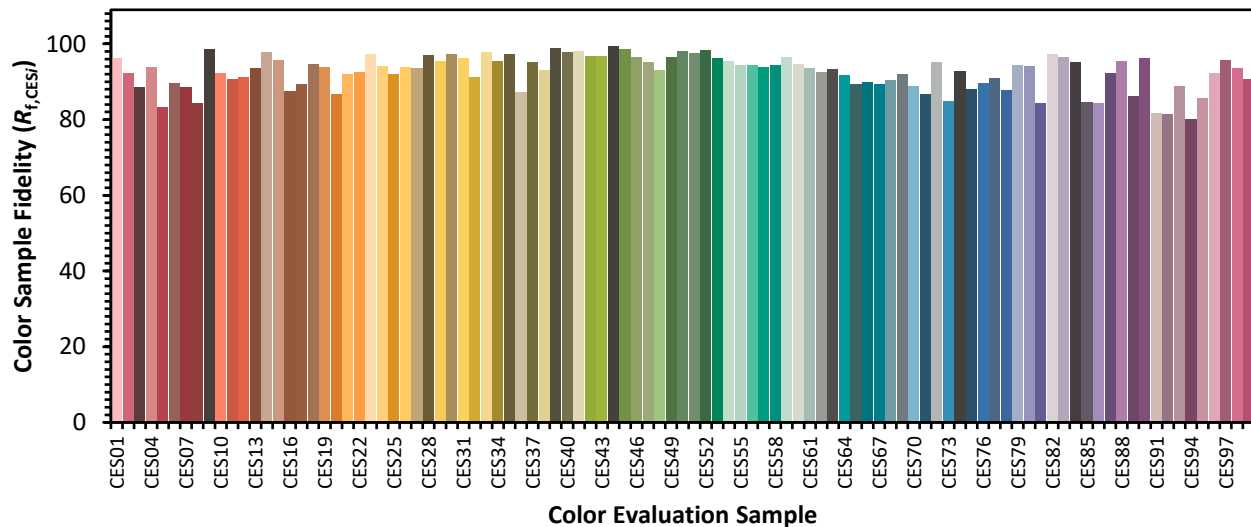


Color Vector Graphics

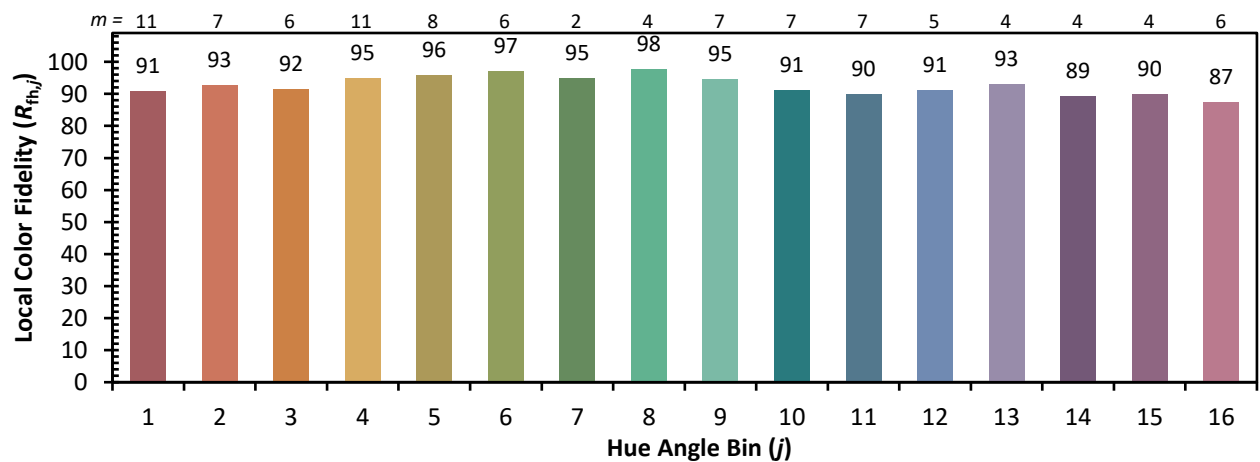
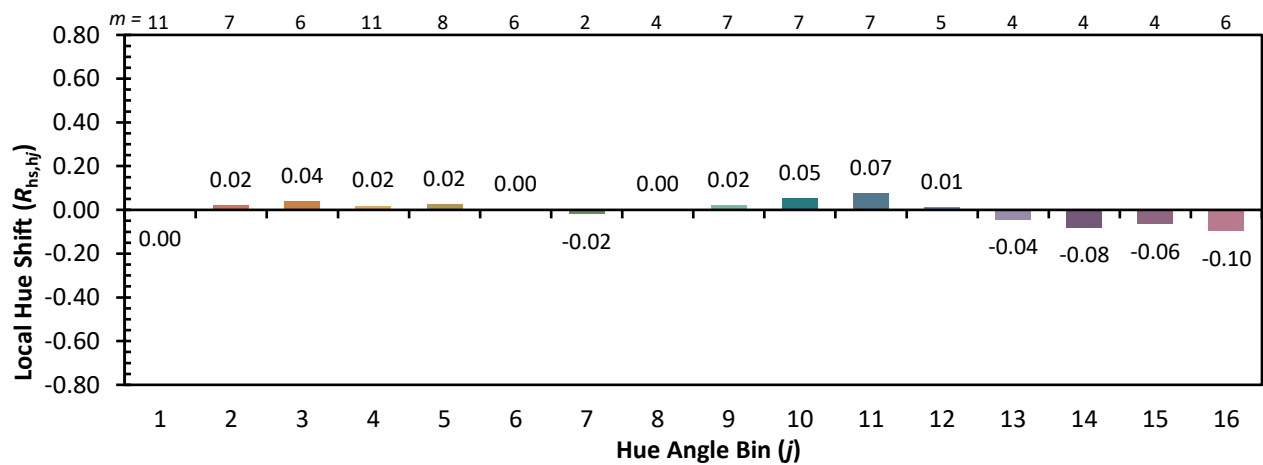
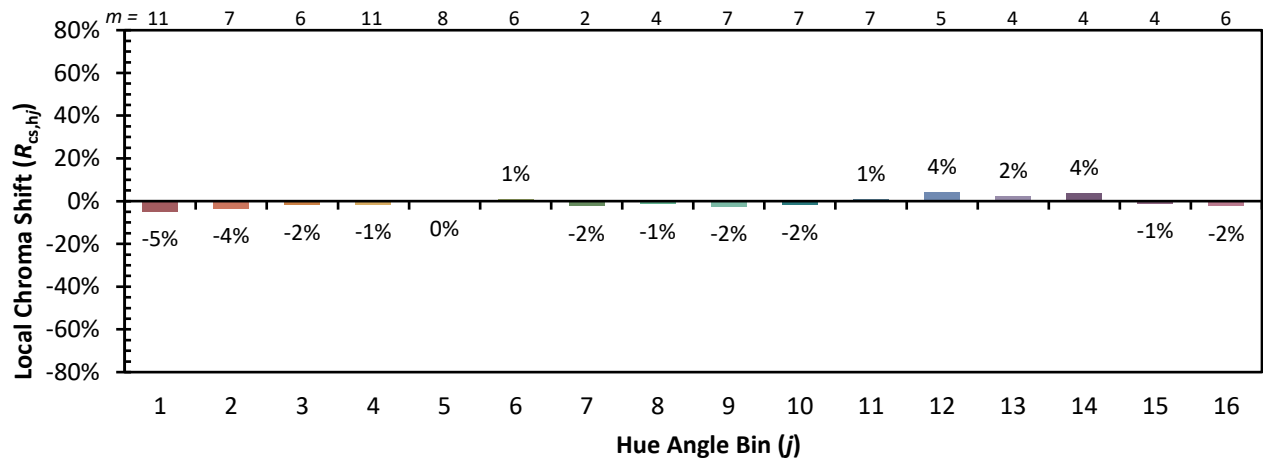


Individual Sample Fidelity Index ($R_{f,i}$)

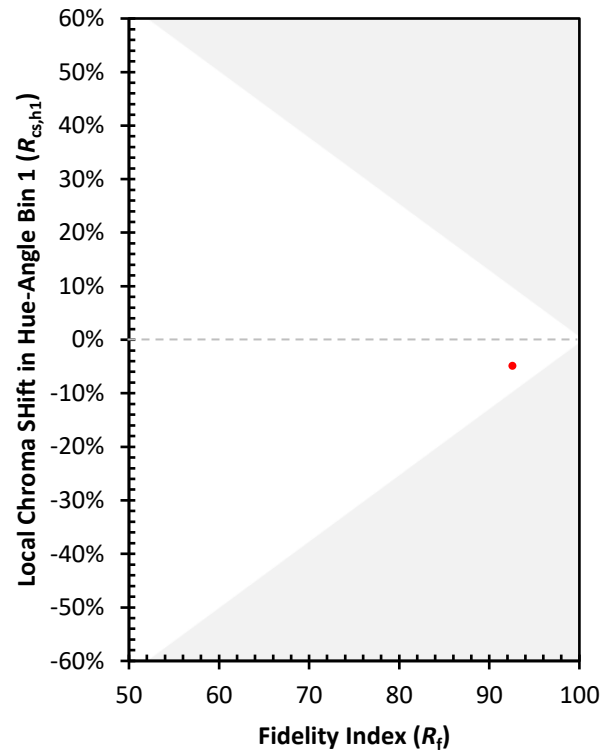
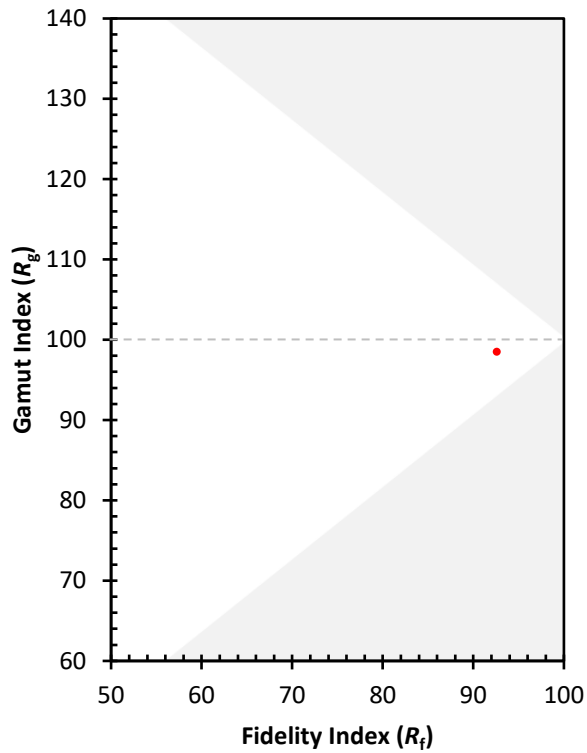
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)