

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: P1065581

Luminaire Tested: **GLAN-SA5A-930-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065581
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11210.2 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 136.6
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

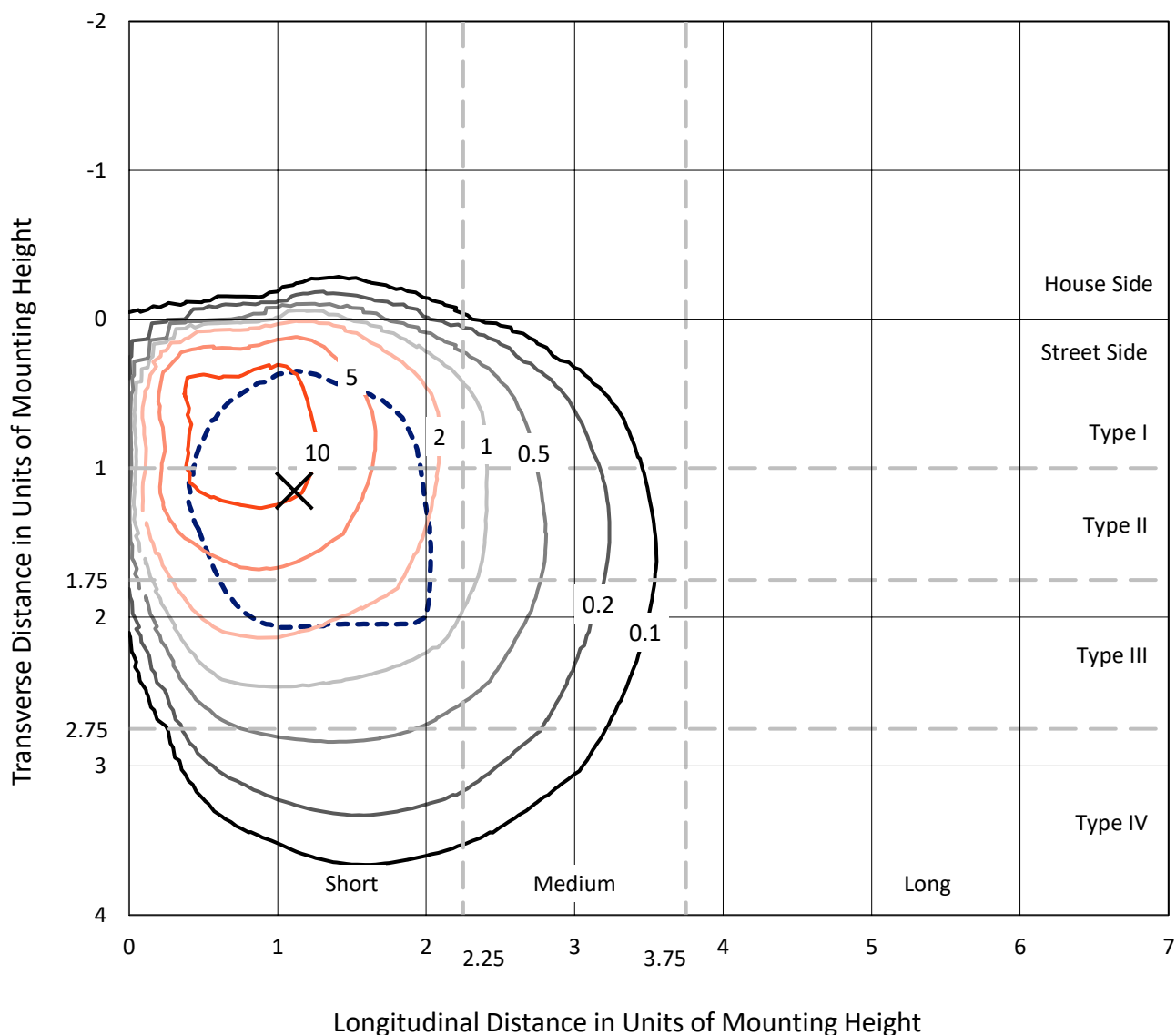
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

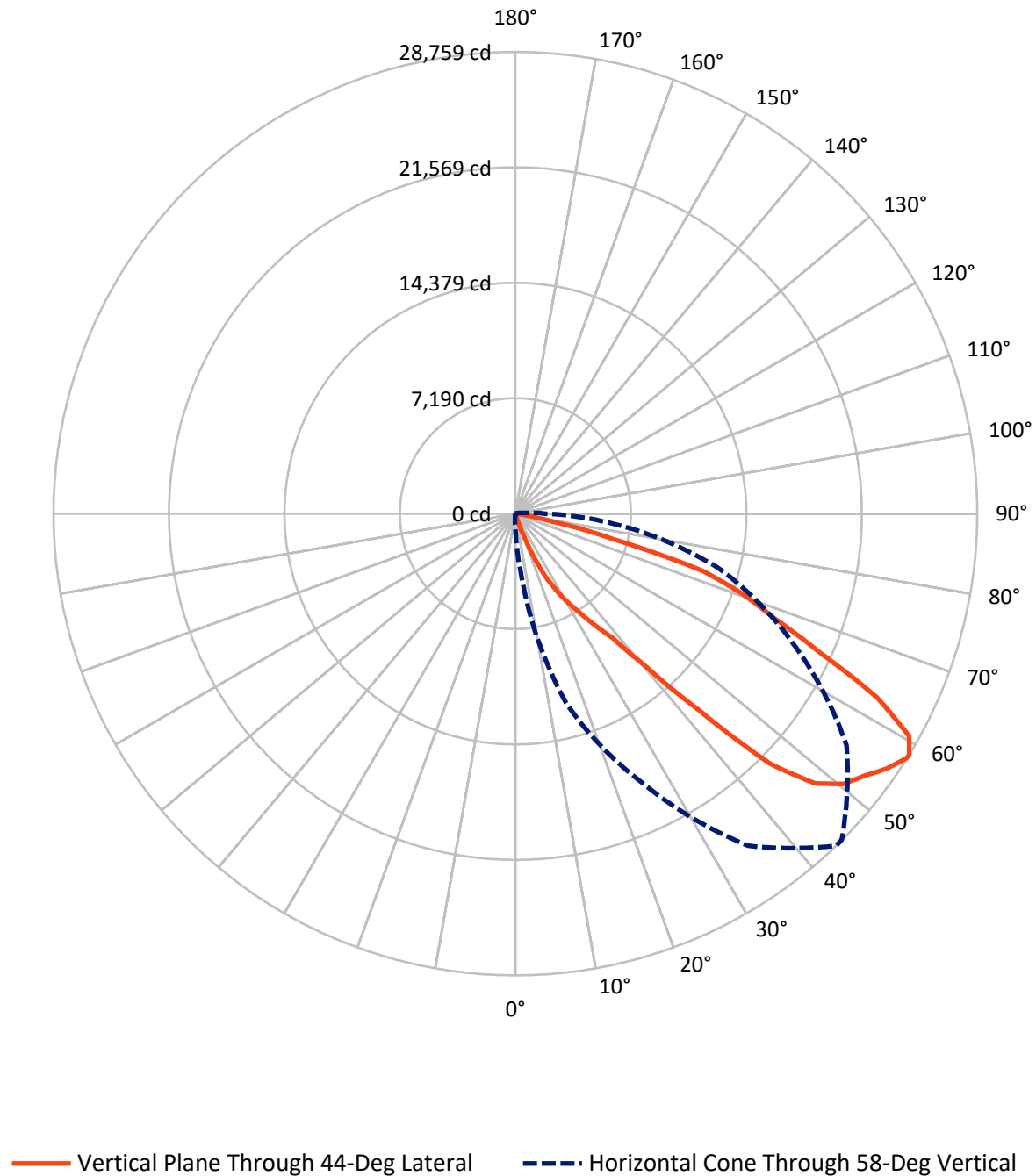


Based on 20 foot mounting height. Maximum calculated value = 19.5 fc

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	76.5	0.0	76.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11133.7	0.0	11133.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	11210.2	0.0	11210.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.0
10°-20°	24.6	0.2
20°-30°	265.6	2.4
30°-40°	785.4	7.0
40°-50°	2340.9	20.9
50°-60°	3714.4	33.1
60°-70°	3098.3	27.6
70°-80°	955.6	8.5
80°-90°	21.2	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°	11210.2	100.0
0°-180°	11210.2	100.0



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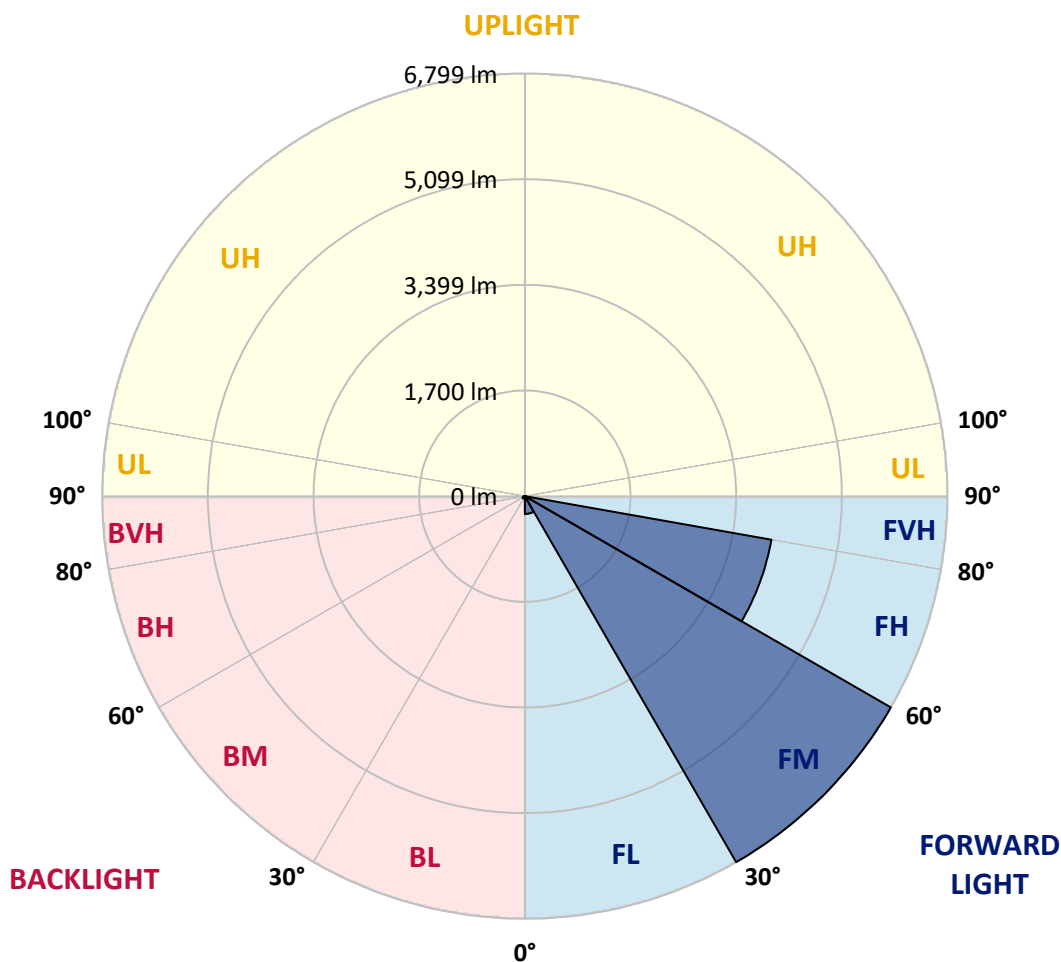
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.0	2.6			
FM	(30°-60°)	6798.8	60.6			
FH	(60°-80°)	4027.7	35.9			G2/5000
FVH	(80°-90°)	20.2	0.2			G1/100
BL	(0°-30°)	7.5	0.1	B0/110		
BM	(30°-60°)	41.9	0.4	B0/220		
BH	(60°-80°)	26.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
2.5°	63.5	63.5	61.0	57.6	54.2	50.8	50.0	48.3	47.4	46.6
5°	66.1	66.1	65.2	62.7	59.3	56.7	56.7	54.2	52.5	50.8
7.5°	67.7	68.6	70.3	69.4	67.7	65.2	65.2	63.5	61.0	56.7
10°	70.3	72.8	76.2	77.9	78.8	78.8	77.9	77.1	72.8	66.9
12.5°	72.8	77.9	86.4	94.8	99.9	106.7	105.9	104.2	93.2	80.4
15°	77.9	85.5	103.3	127.9	166.0	189.7	199.0	190.5	154.1	108.4
17.5°	83.8	96.5	149.9	267.6	438.7	520.0	569.1	529.3	350.6	205.8
20°	89.8	117.7	278.6	693.6	1138.1	1404.1	1477.7	1362.6	874.8	392.1
22.5°	99.9	165.1	564.8	1433.7	2452.4	2851.3	2926.7	2558.3	1652.2	774.0
25°	121.1	239.7	973.9	2336.4	3660.0	4333.3	4301.9	3819.2	2680.2	1236.4
27.5°	151.6	348.9	1472.7	3319.6	4816.8	5410.4	5481.6	4884.6	3572.8	1818.2
30°	195.6	483.5	2007.9	4107.2	5744.1	6386.0	6397.9	5780.5	4371.4	2328.8
32.5°	238.0	610.6	2476.2	4868.5	6657.8	7361.6	7414.1	6654.5	4967.5	2860.6
35°	270.1	693.6	2950.4	5537.5	7579.2	8548.8	8545.4	7643.6	5673.8	3335.7
37.5°	272.7	776.6	3379.7	6221.7	8746.1	9831.8	9939.3	8945.1	6527.4	3923.4
40°	266.8	869.7	3923.4	7288.7	10848.8	12514.6	12609.4	11356.1	8239.7	4929.4
42.5°	273.5	1031.4	4805.8	9259.3	14340.3	16732.7	16915.6	15597.9	11387.4	6982.2
45°	309.1	1335.5	6654.5	12556.1	19317.2	22233.7	22172.8	20275.0	15050.0	10107.0
47.5°	426.8	2079.8	9394.8	15764.7	22497.9	25095.2	25147.7	22828.2	17187.4	12509.5
50°	656.3	3182.4	11697.4	17460.9	23865.6	26471.3	26422.2	23741.9	17999.5	13692.5
52.5°	853.6	3980.1	12852.5	18056.3	24040.9	27151.3	27147.9	23982.4	18125.7	13794.1
55°	902.7	4040.3	12861.8	18088.5	24433.8	28041.3	28153.1	24574.4	18289.2	13350.4
57.5°	883.3	3577.0	12324.9	18274.8	25133.3	28729.8	28735.7	25147.7	18704.1	13078.6
58°	866.3	3504.2	12216.5	18380.6	25253.5	28758.6	28744.2	25173.9	19042.0	13068.4
60°	771.5	3042.7	11793.9	18650.8	25074.9	28167.5	28032.9	24600.6	18992.0	12964.2
62.5°	606.3	2373.7	11378.1	18338.3	23159.3	25306.0	25361.9	21779.8	17313.6	12357.1
65°	482.7	1769.0	10510.9	16085.7	19070.8	20781.4	20989.7	17710.8	14451.3	10463.5
67.5°	384.5	1278.7	8817.3	12806.7	15090.6	17344.1	17495.7	14869.6	11196.0	8017.0
70°	312.5	864.6	6086.2	9366.0	12446.8	14980.6	14989.9	12352.8	8356.6	5252.9
72.5°	276.9	598.7	3533.0	6830.6	10092.6	12207.2	11960.7	10024.0	6422.4	3111.3
75°	239.7	397.2	1732.6	4175.8	6119.2	6160.7	6254.7	4650.0	3210.4	1479.4
77.5°	197.3	282.0	682.6	1140.7	1835.1	2349.1	2436.4	1846.1	1067.9	364.1
80°	135.5	133.8	183.8	349.7	525.0	658.0	614.0	475.1	279.5	139.7
82.5°	58.4	63.5	83.0	99.9	81.3	78.8	75.4	48.3	37.3	28.8
85°	18.6	16.9	17.8	17.8	14.4	11.0	11.0	5.1	0.0	0.0
87.5°	9.3	7.6	7.6	6.8	4.2	1.7	0.8	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°
49.1	0°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
45.7	2.5°	44.9	44.9	43.2	41.5	40.6	39.0	38.1	37.3	36.4	35.6
49.1	5°	47.4	46.6	44.0	41.5	39.0	36.4	34.7	33.0	31.3	30.5
54.2	7.5°	51.7	50.0	44.9	40.6	37.3	33.9	32.2	29.6	27.9	25.4
60.1	10°	56.7	53.4	46.6	41.5	36.4	32.2	29.6	27.1	24.6	21.2
68.6	12.5°	63.5	57.6	49.1	40.6	34.7	29.6	27.1	23.7	21.2	18.6
79.6	15°	69.4	61.8	50.0	40.6	33.0	27.1	23.7	20.3	17.8	14.4
99.9	17.5°	77.9	65.2	49.1	38.1	30.5	23.7	20.3	17.8	13.5	8.5
148.2	20°	92.3	67.7	47.4	35.6	26.3	19.5	15.2	11.9	5.9	1.7
222.7	22.5°	115.2	74.5	45.7	32.2	22.9	15.2	10.2	4.2	0.0	0.0
338.7	25°	159.2	86.4	45.7	30.5	20.3	11.0	3.4	0.0	0.0	0.0
481.0	27.5°	211.7	102.5	45.7	26.3	16.1	5.9	0.0	0.0	0.0	0.0
655.5	30°	265.1	120.3	45.7	22.9	12.7	0.8	0.0	0.0	0.0	0.0
807.0	32.5°	315.9	135.5	46.6	19.5	8.5	0.0	0.0	0.0	0.0	0.0
1017.1	35°	367.5	138.0	45.7	16.9	5.1	0.0	0.0	0.0	0.0	0.0
1274.5	37.5°	433.6	133.0	43.2	15.2	2.5	0.0	0.0	0.0	0.0	0.0
1676.7	40°	533.5	135.5	40.6	14.4	0.8	0.0	0.0	0.0	0.0	0.0
2394.0	42.5°	718.1	146.5	37.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0
3813.3	45°	1241.5	196.5	33.9	15.2	0.0	0.0	0.0	0.0	0.0	0.0
5724.6	47.5°	2053.6	353.1	33.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0
6895.8	50°	2621.0	444.6	34.7	16.1	0.0	0.0	0.0	0.0	0.0	0.0
7042.3	52.5°	2616.7	495.4	36.4	16.9	3.4	0.0	0.0	0.0	0.0	0.0
6491.0	55°	2326.3	504.7	39.0	18.6	11.0	0.0	0.0	0.0	0.0	0.0
5578.1	57.5°	1944.3	460.7	44.9	22.9	20.3	0.0	0.0	0.0	0.0	0.0
5435.0	58°	1876.6	440.4	46.6	23.7	22.0	0.0	0.0	0.0	0.0	0.0
4714.3	60°	1537.9	359.1	59.3	29.6	29.6	0.0	0.0	0.0	0.0	0.0
3865.0	62.5°	1061.9	313.3	67.7	38.1	30.5	0.0	0.0	0.0	0.0	0.0
2849.6	65°	751.1	282.8	73.7	40.6	24.6	0.0	0.0	0.0	0.0	0.0
2024.8	67.5°	561.5	260.8	81.3	41.5	12.7	0.0	0.0	0.0	0.0	0.0
1270.3	70°	430.2	244.7	99.9	44.0	3.4	0.0	0.0	0.0	0.0	0.0
757.1	72.5°	350.6	226.1	121.1	45.7	0.0	0.0	0.0	0.0	0.0	0.0
453.9	75°	290.5	204.1	116.9	50.0	0.0	0.0	0.0	0.0	0.0	0.0
242.2	77.5°	193.1	158.4	106.7	50.0	0.0	0.0	0.0	0.0	0.0	0.0
86.4	80°	67.7	62.7	83.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0
17.8	82.5°	10.2	8.5	11.9	15.2	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°
49.1	0°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
34.7	2.5°	34.7	34.7	33.9	34.7	34.7	36.4	40.6	46.6	53.4	55.9
29.6	5°	28.8	27.9	27.1	27.1	27.1	29.6	33.0	39.8	47.4	50.8
24.6	7.5°	23.7	22.9	22.0	21.2	21.2	22.9	27.1	34.7	42.3	45.7
20.3	10°	19.5	17.8	16.9	16.1	16.1	17.8	22.0	29.6	38.1	41.5
16.9	12.5°	16.1	13.5	11.9	11.0	10.2	12.7	16.9	23.7	33.0	37.3
12.7	15°	11.0	8.5	5.9	5.1	4.2	6.8	11.0	18.6	27.9	33.0
6.8	17.5°	5.9	2.5	0.8	0.0	0.0	1.7	5.1	13.5	22.9	27.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	16.9	21.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.2	14.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	7.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	2.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
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°
49.1	0°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
58.4	2.5°	60.1	59.3	57.6	55.9	55.9	55.9	58.4	61.0	63.5	63.5
52.5	5°	55.9	55.9	55.0	53.4	53.4	54.2	57.6	61.8	65.2	66.1
48.3	7.5°	51.7	53.4	51.7	50.8	51.7	52.5	55.9	61.0	66.1	67.7
44.9	10°	49.1	50.0	50.0	49.1	49.1	50.8	54.2	61.0	67.7	70.3
40.6	12.5°	45.7	47.4	46.6	46.6	46.6	48.3	52.5	60.1	69.4	72.8
36.4	15°	42.3	44.9	44.9	44.0	44.0	44.9	50.8	59.3	72.0	77.9
31.3	17.5°	39.0	41.5	42.3	40.6	40.6	42.3	48.3	59.3	73.7	83.8
25.4	20°	32.2	36.4	39.0	36.4	36.4	38.1	44.0	55.9	74.5	89.8
18.6	22.5°	25.4	29.6	33.0	32.2	32.2	33.0	40.6	53.4	75.4	99.9
11.0	25°	18.6	22.9	25.4	27.1	27.1	29.6	37.3	51.7	78.8	121.1
5.1	27.5°	11.0	16.1	19.5	21.2	22.0	25.4	34.7	50.0	84.7	151.6
0.0	30°	5.1	9.3	13.5	16.9	16.9	22.9	32.2	48.3	92.3	195.6
0.0	32.5°	0.0	4.2	6.8	11.9	12.7	18.6	29.6	46.6	103.3	238.0
0.0	35°	0.0	0.0	3.4	9.3	9.3	15.2	27.1	44.9	120.3	270.1
0.0	37.5°	0.0	0.0	0.0	6.8	7.6	13.5	26.3	44.0	123.6	272.7
0.0	40°	0.0	0.0	0.0	5.1	5.9	12.7	26.3	44.9	111.8	266.8
0.0	42.5°	0.0	0.0	0.0	3.4	4.2	12.7	26.3	46.6	100.8	273.5
0.0	45°	0.0	0.0	0.0	2.5	3.4	13.5	25.4	45.7	94.8	309.1
0.0	47.5°	0.0	0.0	0.0	3.4	5.1	13.5	24.6	44.9	95.7	426.8
0.0	50°	0.0	0.0	0.0	4.2	5.9	13.5	25.4	43.2	105.0	656.3
0.0	52.5°	0.0	0.0	0.0	3.4	5.1	15.2	27.9	42.3	114.3	853.6
0.0	55°	0.0	0.0	0.0	0.8	2.5	19.5	30.5	42.3	128.7	902.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	22.0	34.7	44.9	152.4	883.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	22.0	35.6	44.9	154.1	866.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	22.0	39.0	50.0	166.0	771.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	18.6	46.6	62.7	172.8	606.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.2	55.0	68.6	177.8	482.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	14.4	56.7	69.4	180.4	384.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.2	55.9	74.5	188.8	312.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	16.9	50.8	82.1	188.8	276.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	17.8	47.4	92.3	171.9	239.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	16.9	46.6	107.5	153.3	197.3
0.0	80°	1.7	2.5	2.5	1.7	1.7	14.4	45.7	109.2	130.4	135.5
0.8	82.5°	5.1	6.8	5.9	4.2	4.2	12.7	40.6	91.5	67.7	58.4
5.1	85°	9.3	11.0	11.0	9.3	9.3	11.9	25.4	33.0	22.9	18.6
9.3	87.5°	12.7	14.4	14.4	12.7	12.7	11.9	11.0	10.2	9.3	9.3
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

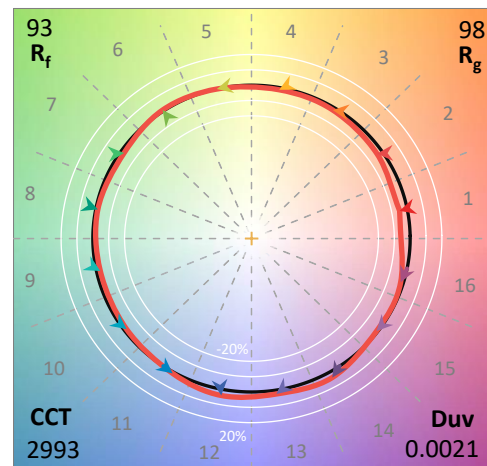
Test Information

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

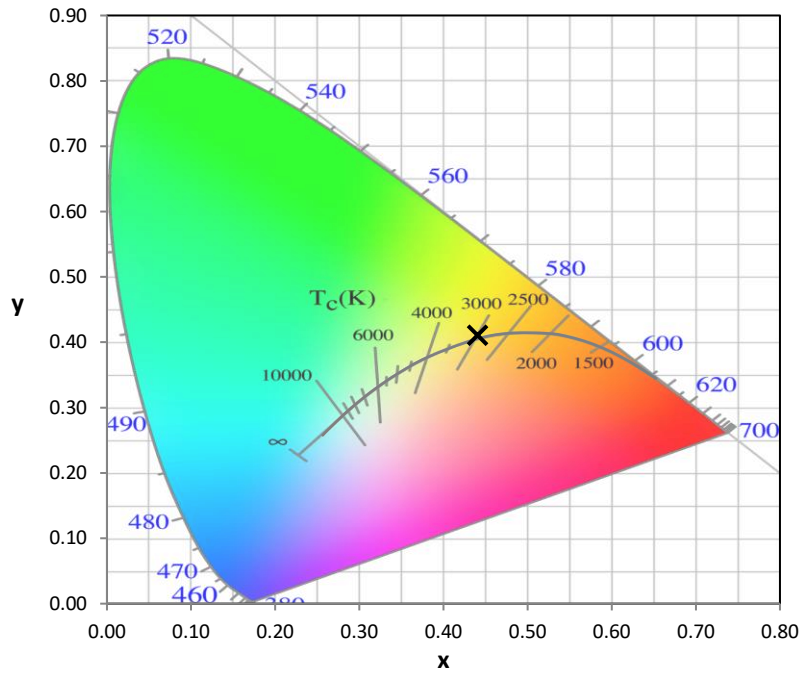
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

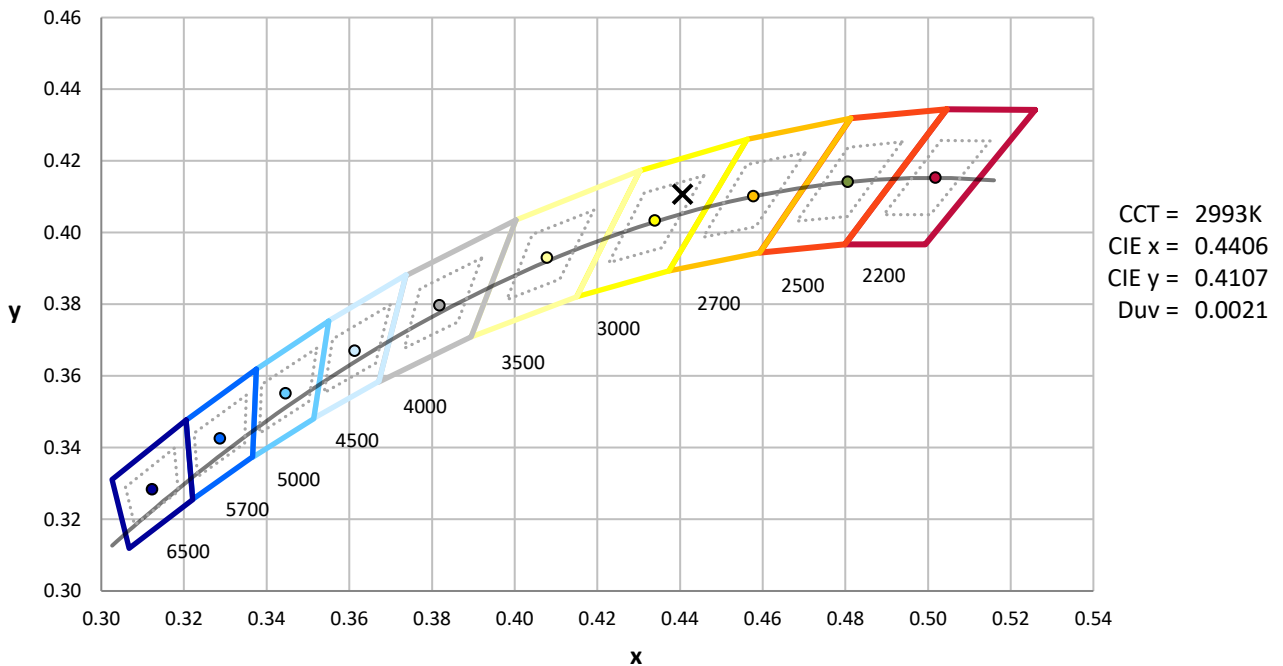
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



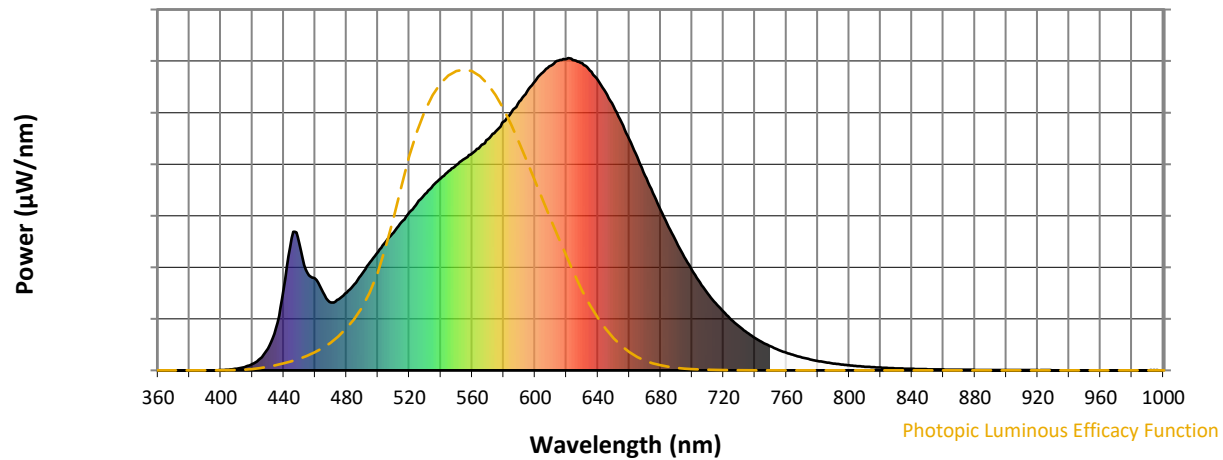
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

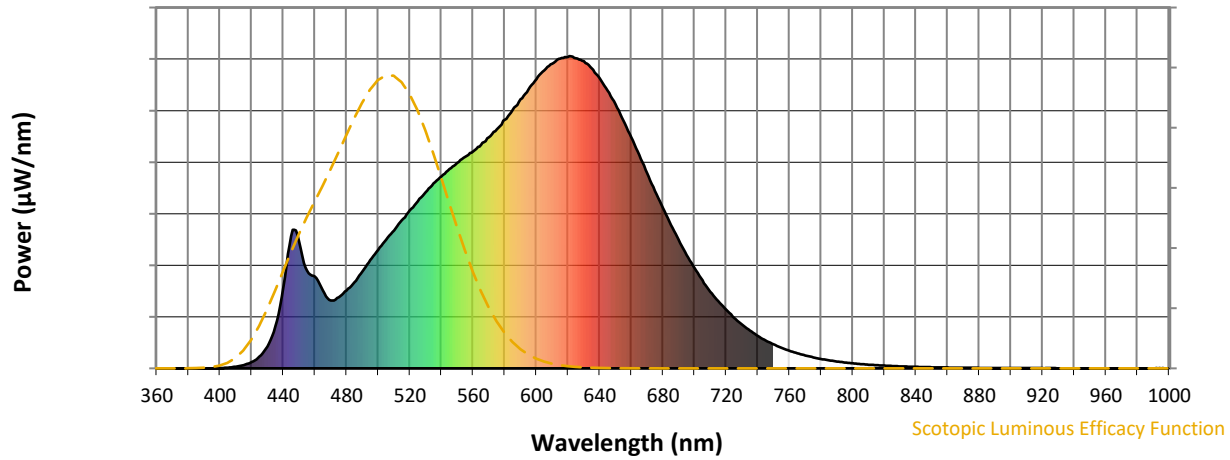


Photopic Lumens: NR

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



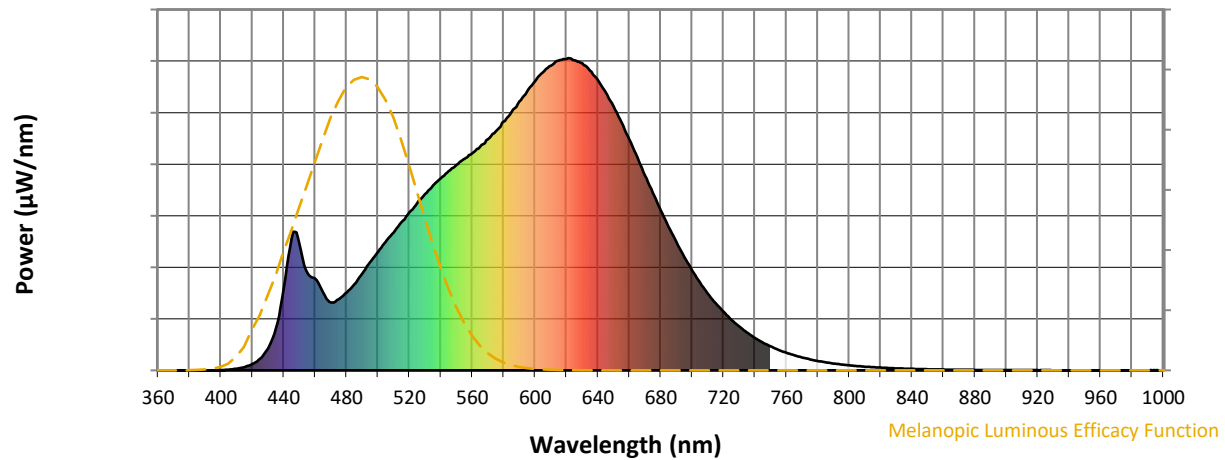
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /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

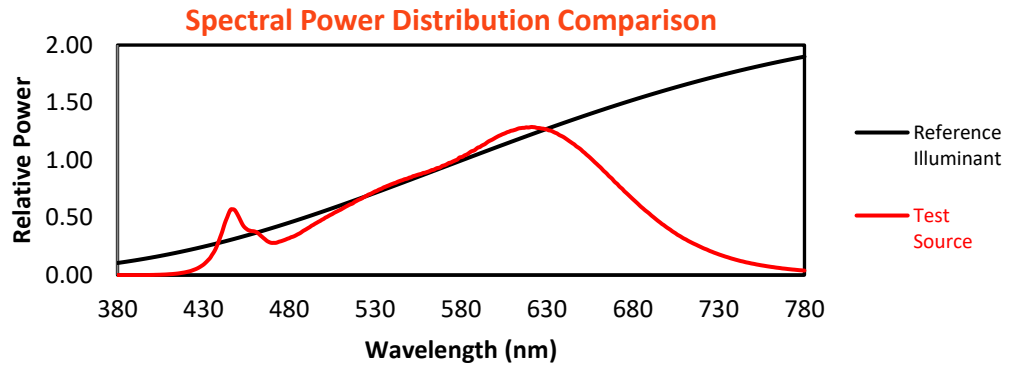
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	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

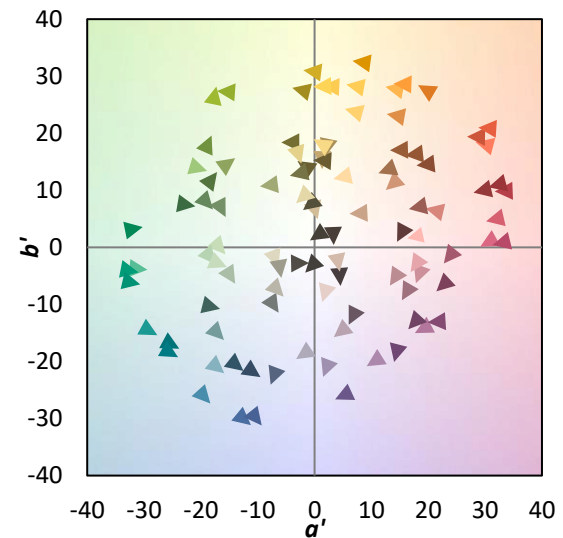
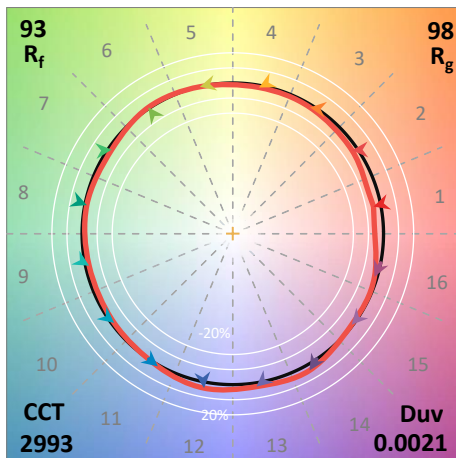
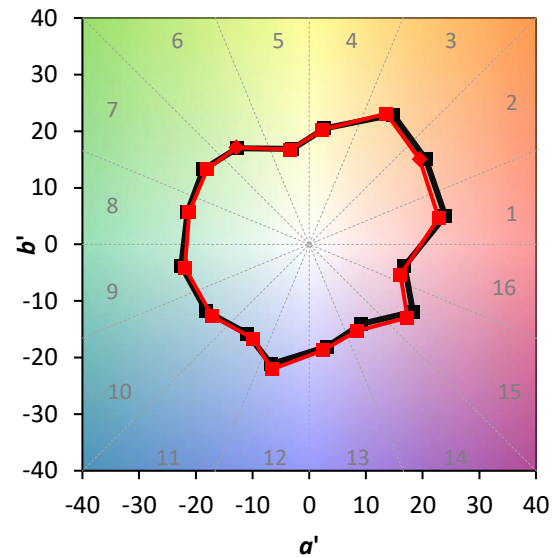
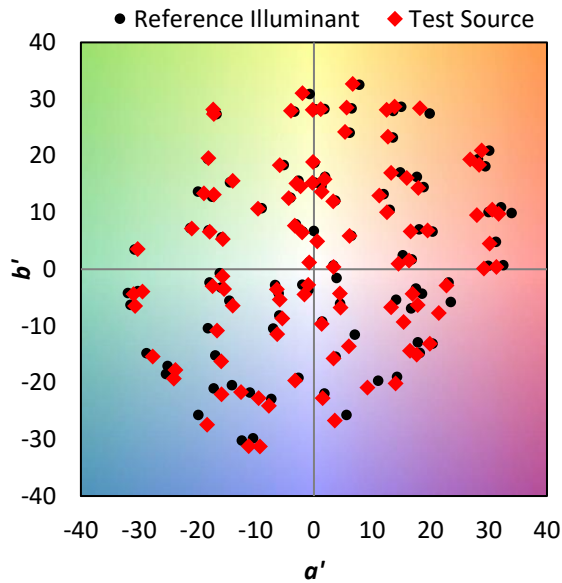
TM-30-18

Summary

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

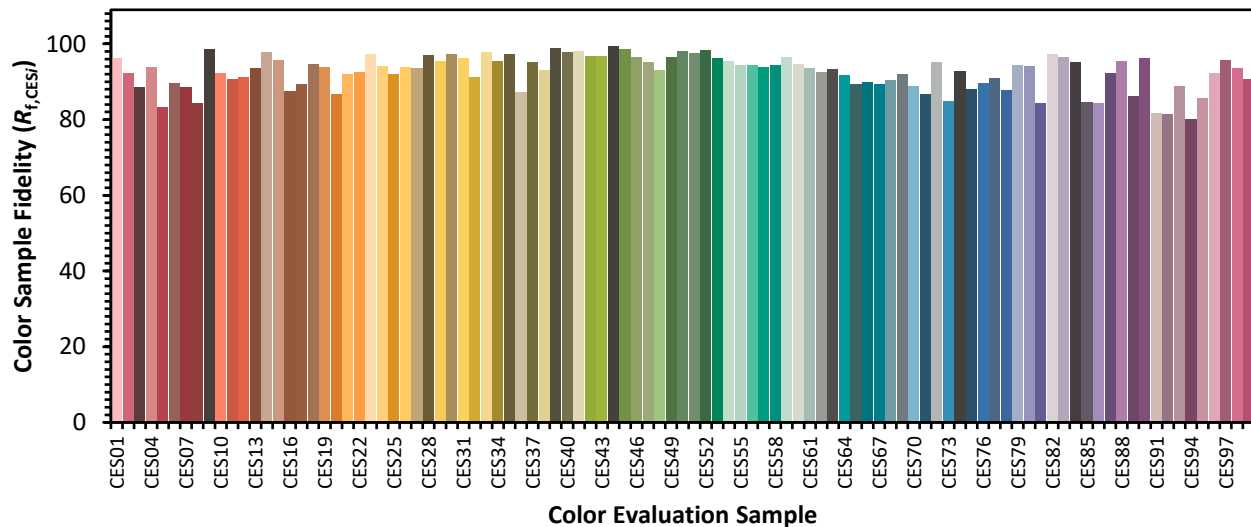


Color Vector Graphics

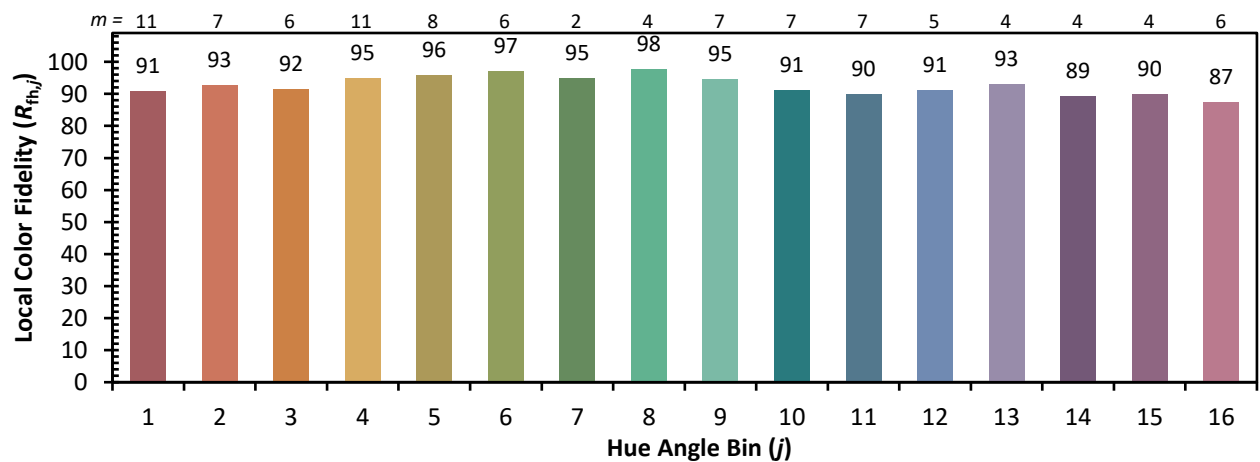
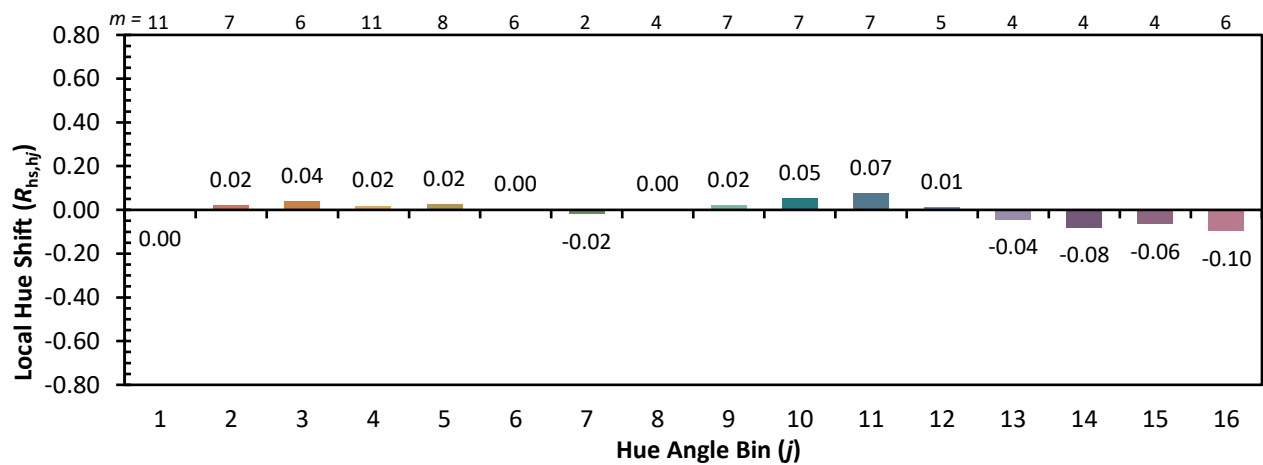
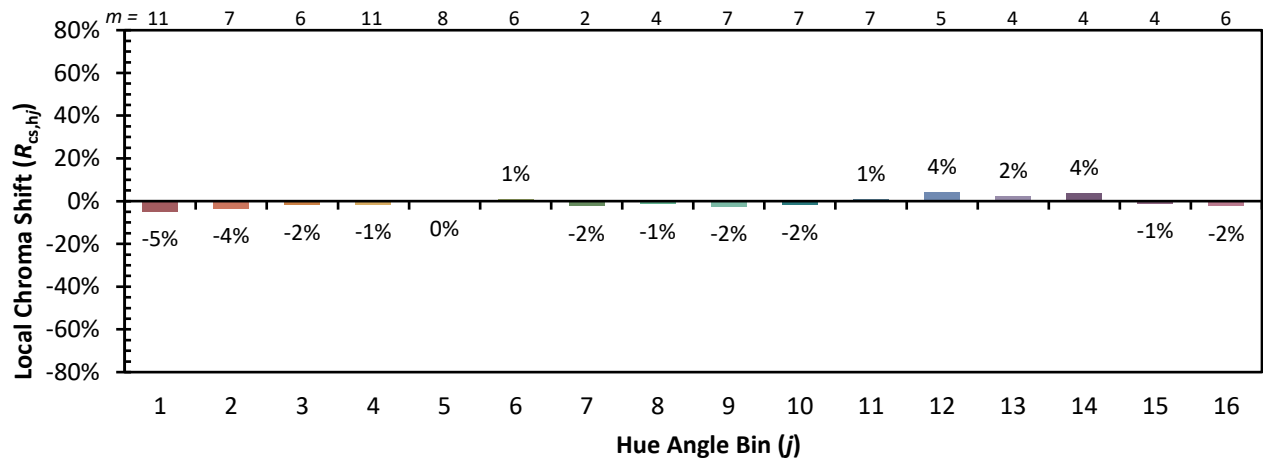


Individual Sample Fidelity Index ($R_{f,i}$)

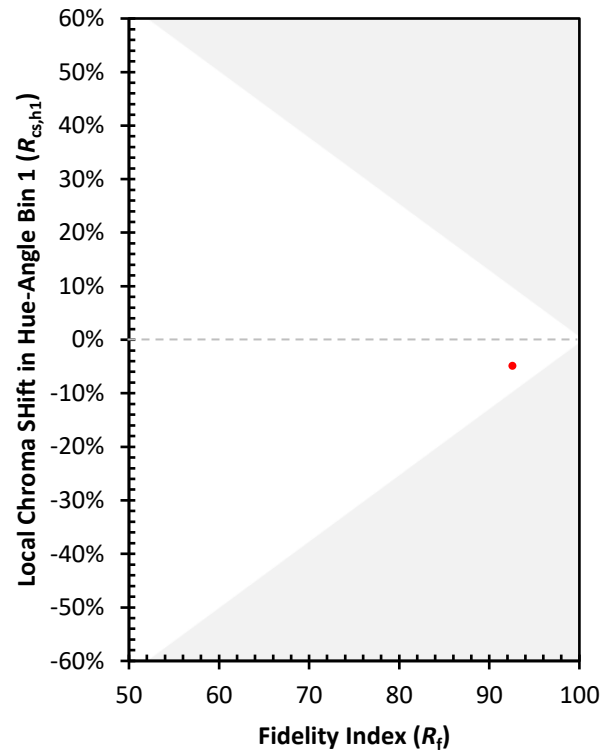
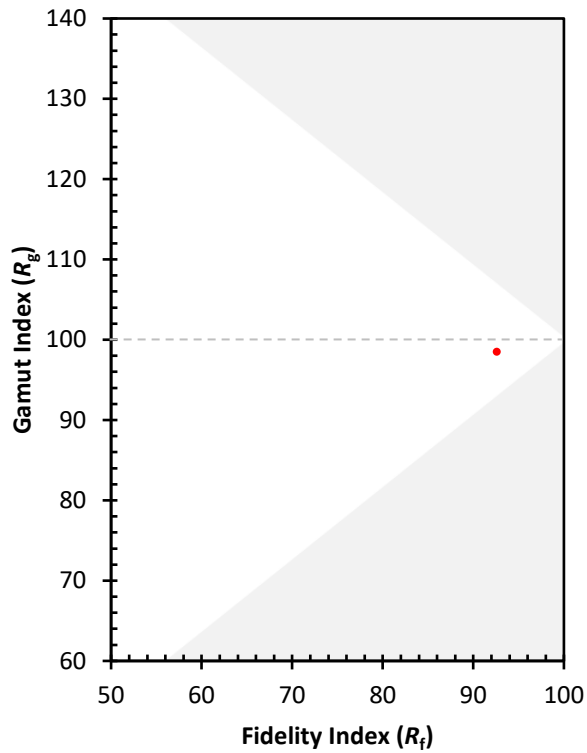
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 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)