

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: McGRAW-EDISON

Report Number: P1049934

Luminaire Tested: **GALN-SA2B-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049934
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 5771.4 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.8
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

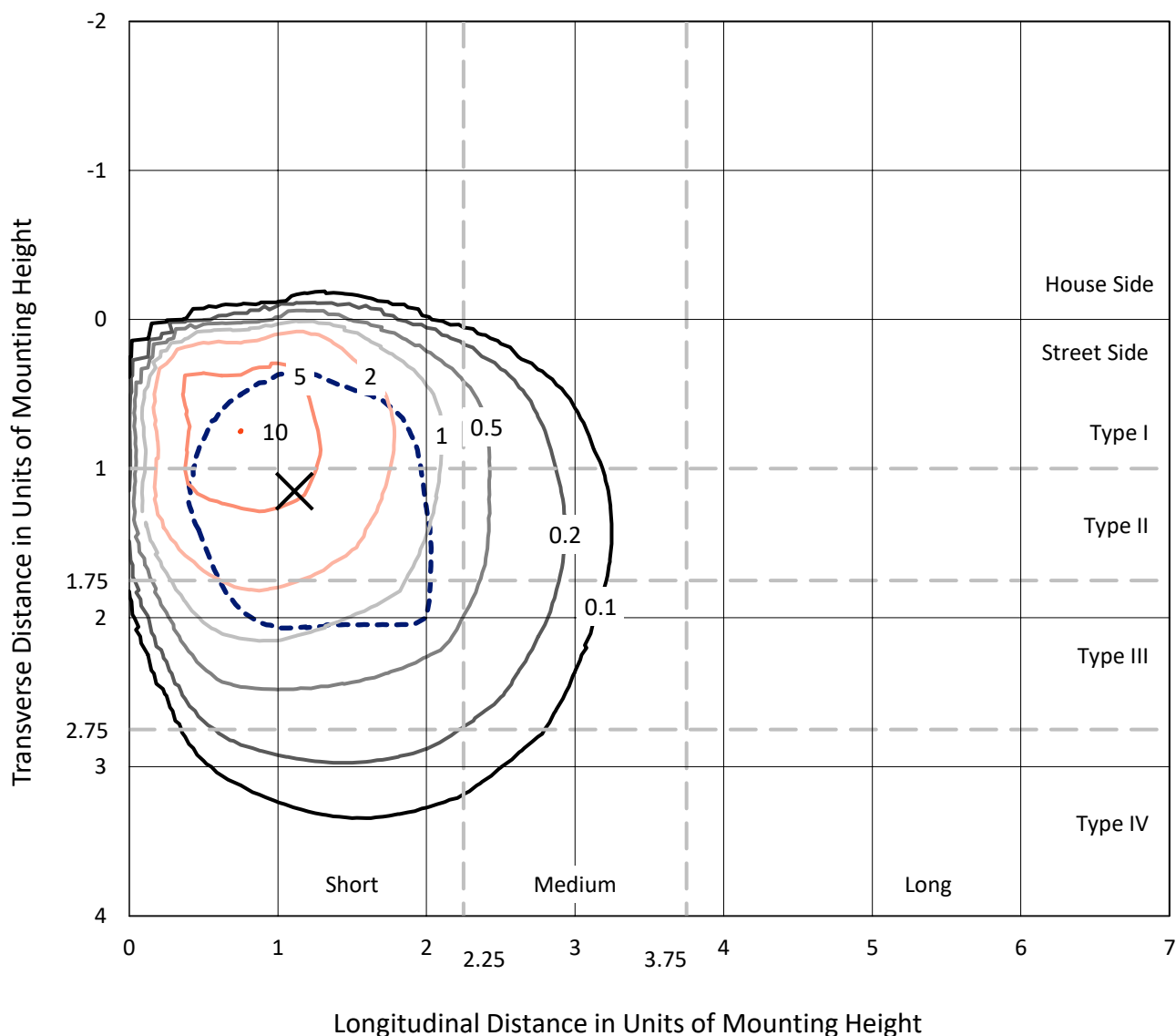
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

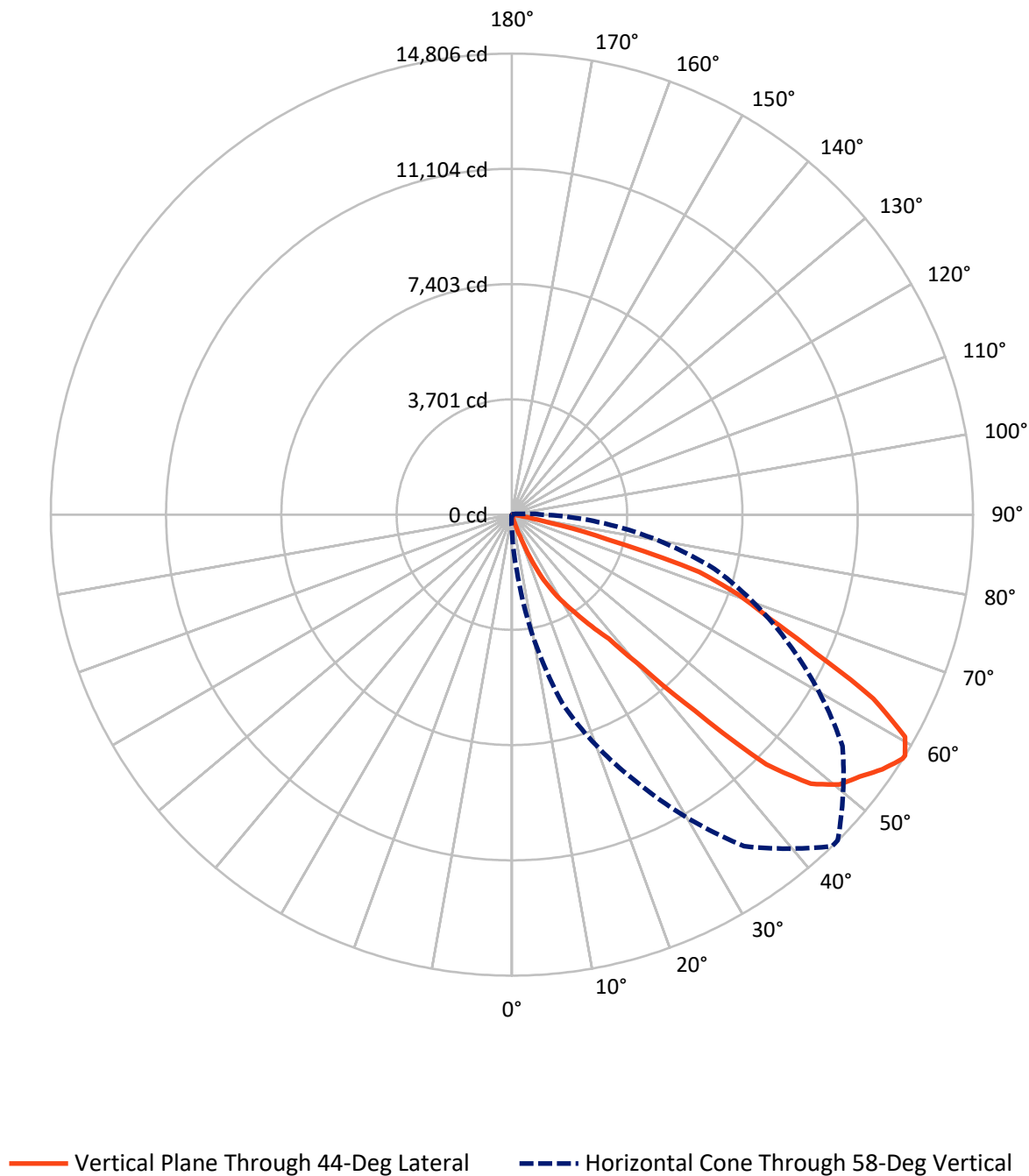


Based on 20 foot mounting height. Maximum calculated value = 10 fc

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	39.4	0.0	39.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5732.0	0.0	5732.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	5771.4	0.0	5771.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.0
10°-20°	12.7	0.2
20°-30°	136.7	2.4
30°-40°	404.3	7.0
40°-50°	1205.2	20.9
50°-60°	1912.3	33.1
60°-70°	1595.1	27.6
70°-80°	491.9	8.5
80°-90°	10.9	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°	5771.4	100.0
0°-180°	5771.4	100.0

Coefficient of Utilization



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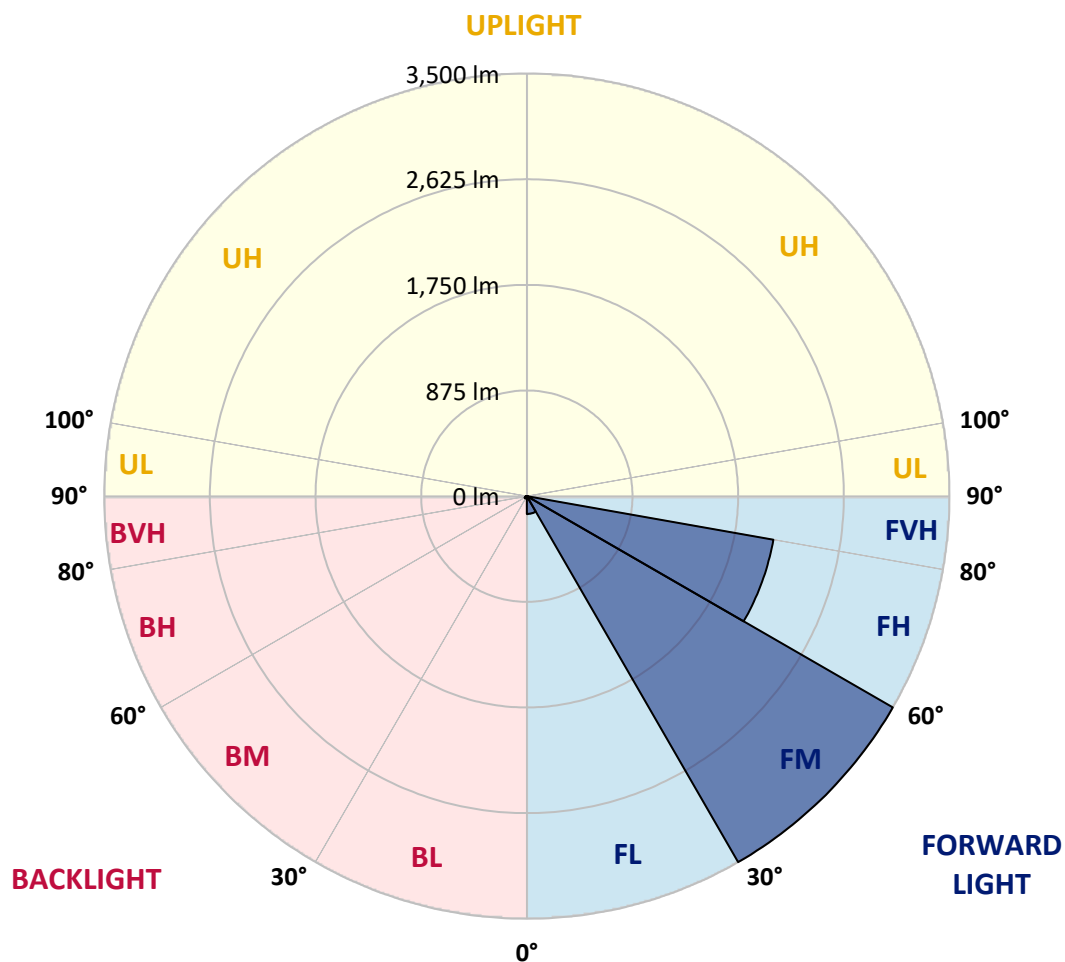
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.8	2.6			
FM	(30°-60°)	3500.2	60.6			
FH	(60°-80°)	2073.6	35.9			G2/5000
FVH	(80°-90°)	10.4	0.2			G1/100
BL	(0°-30°)	3.9	0.1	B0/110		
BM	(30°-60°)	21.6	0.4	B0/220		
BH	(60°-80°)	13.5	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2.5°	32.7	32.7	31.4	29.6	27.9	26.2	25.7	24.9	24.4	24.0
5°	34.0	34.0	33.6	32.3	30.5	29.2	29.2	27.9	27.0	26.2
7.5°	34.9	35.3	36.2	35.8	34.9	33.6	33.6	32.7	31.4	29.2
10°	36.2	37.5	39.2	40.1	40.5	40.5	40.1	39.7	37.5	34.4
12.5°	37.5	40.1	44.5	48.8	51.4	54.9	54.5	53.6	48.0	41.4
15°	40.1	44.0	53.2	65.8	85.5	97.7	102.5	98.1	79.3	55.8
17.5°	43.2	49.7	77.2	137.8	225.8	267.7	293.0	272.5	180.5	105.9
20°	46.2	60.6	143.4	357.1	586.0	722.9	760.8	701.5	450.4	201.9
22.5°	51.4	85.0	290.8	738.1	1262.6	1467.9	1506.7	1317.1	850.6	398.5
25°	62.3	123.4	501.4	1202.9	1884.3	2230.9	2214.8	1966.3	1379.9	636.5
27.5°	78.0	179.6	758.2	1709.0	2479.8	2785.5	2822.1	2514.7	1839.4	936.0
30°	100.7	248.9	1033.7	2114.5	2957.2	3287.7	3293.8	2976.0	2250.5	1198.9
32.5°	122.5	314.3	1274.8	2506.4	3427.7	3789.9	3817.0	3425.9	2557.4	1472.7
35°	139.1	357.1	1518.9	2850.9	3902.0	4401.2	4399.4	3935.1	2921.0	1717.3
37.5°	140.4	399.8	1740.0	3203.1	4502.8	5061.7	5117.1	4605.2	3360.5	2019.9
40°	137.3	447.7	2019.9	3752.5	5585.3	6442.9	6491.7	5846.5	4242.1	2537.8
42.5°	140.8	531.0	2474.2	4767.0	7382.8	8614.5	8708.6	8030.3	5862.6	3594.6
45°	159.1	687.5	3425.9	6464.2	9945.1	11446.6	11415.2	10438.2	7748.2	5203.4
47.5°	219.7	1070.8	4836.7	8116.2	11582.6	12919.7	12946.8	11752.6	8848.6	6440.3
50°	337.9	1638.4	6022.2	8989.4	12286.7	13628.2	13602.9	12223.1	9266.7	7049.3
52.5°	439.5	2049.1	6616.8	9295.9	12377.0	13978.3	13976.6	12346.9	9331.7	7101.6
55°	464.8	2080.0	6621.6	9312.5	12579.2	14436.5	14494.1	12651.6	9415.8	6873.2
57.5°	454.7	1841.6	6345.2	9408.4	12939.4	14791.0	14794.0	12946.8	9629.4	6733.2
58°	446.0	1804.1	6289.4	9462.9	13001.3	14805.8	14798.4	12960.3	9803.4	6728.0
60°	397.2	1566.5	6071.9	9602.0	12909.3	14501.5	14432.2	12665.1	9777.7	6674.4
62.5°	312.2	1222.0	5857.8	9441.1	11923.1	13028.3	13057.1	11212.9	8913.6	6361.8
65°	248.5	910.8	5411.3	8281.4	9818.2	10698.9	10806.1	9118.0	7440.0	5386.9
67.5°	197.9	658.3	4539.4	6593.3	7769.1	8929.2	9007.3	7655.3	5764.1	4127.4
70°	160.9	445.1	3133.4	4821.9	6408.0	7712.4	7717.2	6359.6	4302.2	2704.4
72.5°	142.6	308.2	1818.9	3516.6	5196.0	6284.6	6157.7	5160.7	3306.5	1601.8
75°	123.4	204.5	892.0	2149.8	3150.4	3171.7	3220.1	2394.0	1652.8	761.7
77.5°	101.6	145.2	351.4	587.3	944.8	1209.4	1254.3	950.4	549.8	187.5
80°	69.8	68.9	94.6	180.1	270.3	338.8	316.1	244.6	143.9	71.9
82.5°	30.1	32.7	42.7	51.4	41.9	40.5	38.8	24.9	19.2	14.8
85°	9.6	8.7	9.2	9.2	7.4	5.7	5.7	2.6	0.0	0.0
87.5°	4.8	3.9	3.9	3.5	2.2	0.9	0.4	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°
25.3	0°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
23.5	2.5°	23.1	23.1	22.2	21.4	20.9	20.1	19.6	19.2	18.7	18.3
25.3	5°	24.4	24.0	22.7	21.4	20.1	18.7	17.9	17.0	16.1	15.7
27.9	7.5°	26.6	25.7	23.1	20.9	19.2	17.4	16.6	15.3	14.4	13.1
31.0	10°	29.2	27.5	24.0	21.4	18.7	16.6	15.3	14.0	12.6	10.9
35.3	12.5°	32.7	29.6	25.3	20.9	17.9	15.3	14.0	12.2	10.9	9.6
41.0	15°	35.8	31.8	25.7	20.9	17.0	14.0	12.2	10.5	9.2	7.4
51.4	17.5°	40.1	33.6	25.3	19.6	15.7	12.2	10.5	9.2	7.0	4.4
76.3	20°	47.5	34.9	24.4	18.3	13.5	10.0	7.8	6.1	3.1	0.9
114.7	22.5°	59.3	38.4	23.5	16.6	11.8	7.8	5.2	2.2	0.0	0.0
174.4	25°	82.0	44.5	23.5	15.7	10.5	5.7	1.7	0.0	0.0	0.0
247.6	27.5°	109.0	52.8	23.5	13.5	8.3	3.1	0.0	0.0	0.0	0.0
337.4	30°	136.5	61.9	23.5	11.8	6.5	0.4	0.0	0.0	0.0	0.0
415.5	32.5°	162.6	69.8	24.0	10.0	4.4	0.0	0.0	0.0	0.0	0.0
523.6	35°	189.2	71.1	23.5	8.7	2.6	0.0	0.0	0.0	0.0	0.0
656.1	37.5°	223.2	68.4	22.2	7.8	1.3	0.0	0.0	0.0	0.0	0.0
863.2	40°	274.7	69.8	20.9	7.4	0.4	0.0	0.0	0.0	0.0	0.0
1232.5	42.5°	369.7	75.4	19.2	7.4	0.0	0.0	0.0	0.0	0.0	0.0
1963.2	45°	639.1	101.1	17.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0
2947.2	47.5°	1057.2	181.8	17.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
3550.2	50°	1349.3	228.9	17.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0
3625.6	52.5°	1347.2	255.0	18.7	8.7	1.7	0.0	0.0	0.0	0.0	0.0
3341.8	55°	1197.6	259.8	20.1	9.6	5.7	0.0	0.0	0.0	0.0	0.0
2871.8	57.5°	1001.0	237.2	23.1	11.8	10.5	0.0	0.0	0.0	0.0	0.0
2798.1	58°	966.1	226.7	24.0	12.2	11.3	0.0	0.0	0.0	0.0	0.0
2427.1	60°	791.7	184.9	30.5	15.3	15.3	0.0	0.0	0.0	0.0	0.0
1989.8	62.5°	546.7	161.3	34.9	19.6	15.7	0.0	0.0	0.0	0.0	0.0
1467.1	65°	386.7	145.6	37.9	20.9	12.6	0.0	0.0	0.0	0.0	0.0
1042.4	67.5°	289.1	134.3	41.9	21.4	6.5	0.0	0.0	0.0	0.0	0.0
654.0	70°	221.5	126.0	51.4	22.7	1.7	0.0	0.0	0.0	0.0	0.0
389.8	72.5°	180.5	116.4	62.3	23.5	0.0	0.0	0.0	0.0	0.0	0.0
233.7	75°	149.5	105.1	60.2	25.7	0.0	0.0	0.0	0.0	0.0	0.0
124.7	77.5°	99.4	81.5	54.9	25.7	0.0	0.0	0.0	0.0	0.0	0.0
44.5	80°	34.9	32.3	42.7	22.7	0.0	0.0	0.0	0.0	0.0	0.0
9.2	82.5°	5.2	4.4	6.1	7.8	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°
25.3	0°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
17.9	2.5°	17.9	17.9	17.4	17.9	17.9	18.7	20.9	24.0	27.5	28.8
15.3	5°	14.8	14.4	14.0	14.0	14.0	15.3	17.0	20.5	24.4	26.2
12.6	7.5°	12.2	11.8	11.3	10.9	10.9	11.8	14.0	17.9	21.8	23.5
10.5	10°	10.0	9.2	8.7	8.3	8.3	9.2	11.3	15.3	19.6	21.4
8.7	12.5°	8.3	7.0	6.1	5.7	5.2	6.5	8.7	12.2	17.0	19.2
6.5	15°	5.7	4.4	3.1	2.6	2.2	3.5	5.7	9.6	14.4	17.0
3.5	17.5°	3.1	1.3	0.4	0.0	0.0	0.9	2.6	7.0	11.8	14.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.7	10.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.2	7.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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	1.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5
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°
25.3	0°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
30.1	2.5°	31.0	30.5	29.6	28.8	28.8	28.8	30.1	31.4	32.7	32.7
27.0	5°	28.8	28.8	28.3	27.5	27.5	27.9	29.6	31.8	33.6	34.0
24.9	7.5°	26.6	27.5	26.6	26.2	26.6	27.0	28.8	31.4	34.0	34.9
23.1	10°	25.3	25.7	25.7	25.3	25.3	26.2	27.9	31.4	34.9	36.2
20.9	12.5°	23.5	24.4	24.0	24.0	24.0	24.9	27.0	31.0	35.8	37.5
18.7	15°	21.8	23.1	23.1	22.7	22.7	23.1	26.2	30.5	37.1	40.1
16.1	17.5°	20.1	21.4	21.8	20.9	20.9	21.8	24.9	30.5	37.9	43.2
13.1	20°	16.6	18.7	20.1	18.7	18.7	19.6	22.7	28.8	38.4	46.2
9.6	22.5°	13.1	15.3	17.0	16.6	16.6	17.0	20.9	27.5	38.8	51.4
5.7	25°	9.6	11.8	13.1	14.0	14.0	15.3	19.2	26.6	40.5	62.3
2.6	27.5°	5.7	8.3	10.0	10.9	11.3	13.1	17.9	25.7	43.6	78.0
0.0	30°	2.6	4.8	7.0	8.7	8.7	11.8	16.6	24.9	47.5	100.7
0.0	32.5°	0.0	2.2	3.5	6.1	6.5	9.6	15.3	24.0	53.2	122.5
0.0	35°	0.0	0.0	1.7	4.8	4.8	7.8	14.0	23.1	61.9	139.1
0.0	37.5°	0.0	0.0	0.0	3.5	3.9	7.0	13.5	22.7	63.7	140.4
0.0	40°	0.0	0.0	0.0	2.6	3.1	6.5	13.5	23.1	57.5	137.3
0.0	42.5°	0.0	0.0	0.0	1.7	2.2	6.5	13.5	24.0	51.9	140.8
0.0	45°	0.0	0.0	0.0	1.3	1.7	7.0	13.1	23.5	48.8	159.1
0.0	47.5°	0.0	0.0	0.0	1.7	2.6	7.0	12.6	23.1	49.3	219.7
0.0	50°	0.0	0.0	0.0	2.2	3.1	7.0	13.1	22.2	54.1	337.9
0.0	52.5°	0.0	0.0	0.0	1.7	2.6	7.8	14.4	21.8	58.9	439.5
0.0	55°	0.0	0.0	0.0	0.4	1.3	10.0	15.7	21.8	66.3	464.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	11.3	17.9	23.1	78.5	454.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	11.3	18.3	23.1	79.3	446.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	11.3	20.1	25.7	85.5	397.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	9.6	24.0	32.3	88.9	312.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	7.8	28.3	35.3	91.6	248.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	7.4	29.2	35.8	92.9	197.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	7.8	28.8	38.4	97.2	160.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	8.7	26.2	42.3	97.2	142.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	9.2	24.4	47.5	88.5	123.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	8.7	24.0	55.4	78.9	101.6
0.0	80°	0.9	1.3	1.3	0.9	0.9	7.4	23.5	56.2	67.1	69.8
0.4	82.5°	2.6	3.5	3.1	2.2	2.2	6.5	20.9	47.1	34.9	30.1
2.6	85°	4.8	5.7	5.7	4.8	4.8	6.1	13.1	17.0	11.8	9.6
4.8	87.5°	6.5	7.4	7.4	6.5	6.5	6.1	5.7	5.2	4.8	4.8
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

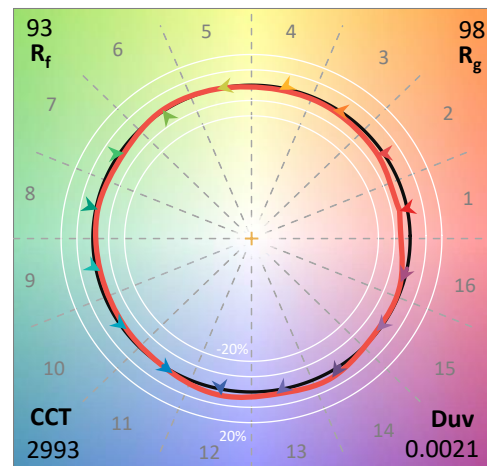
Test Information

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

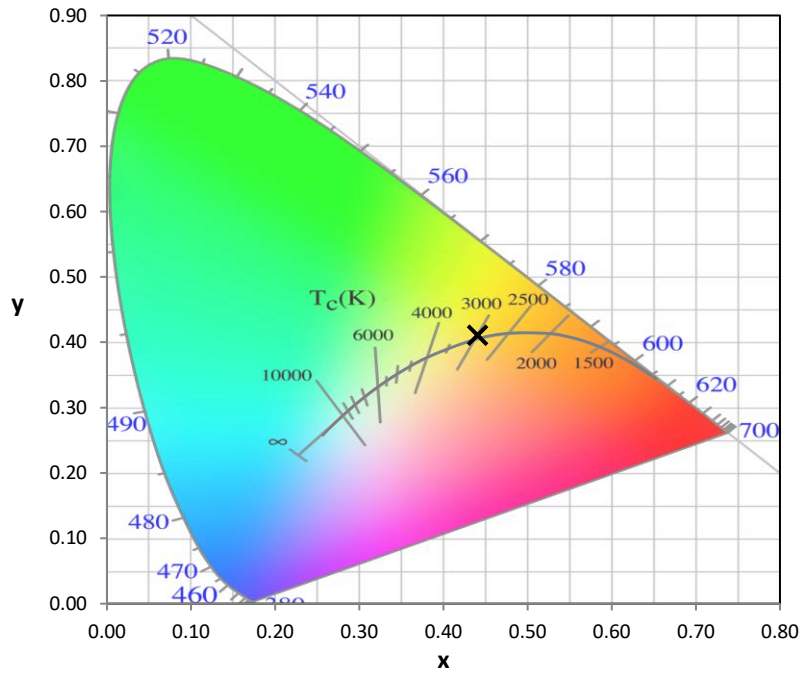
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

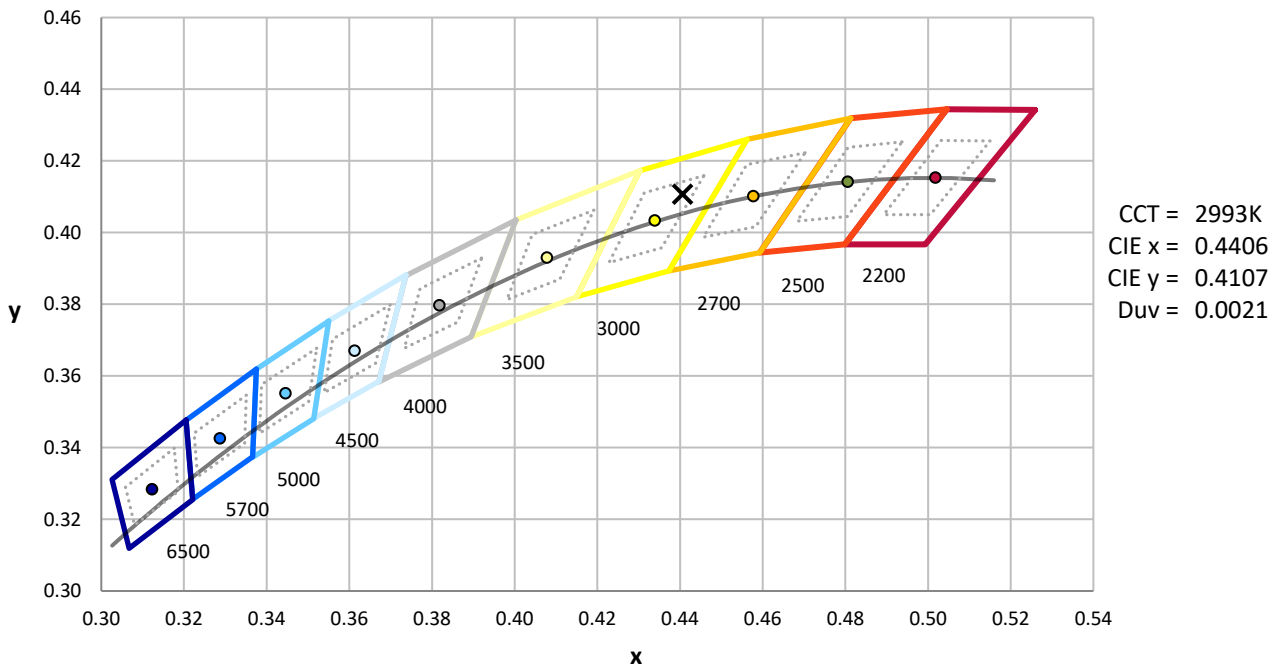
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



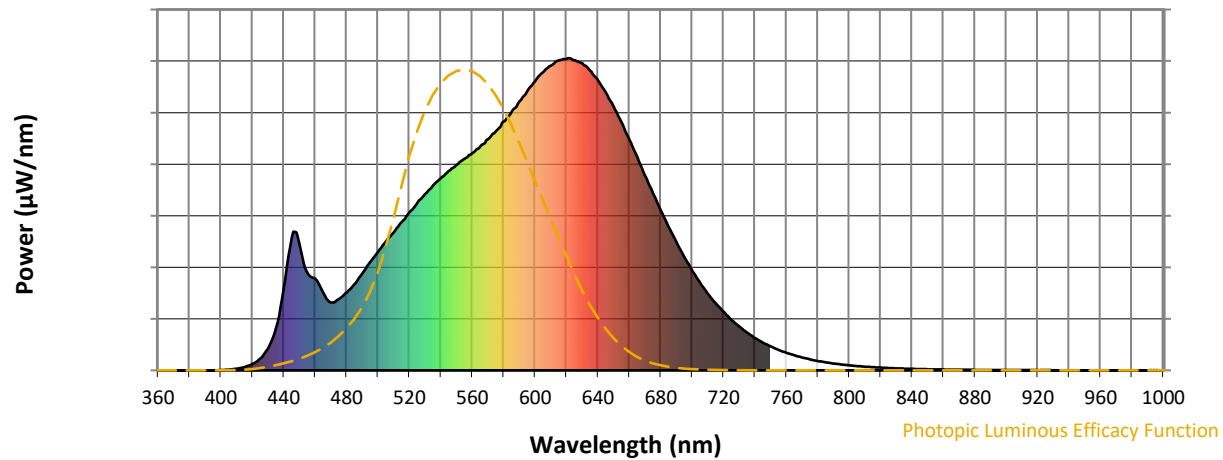
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

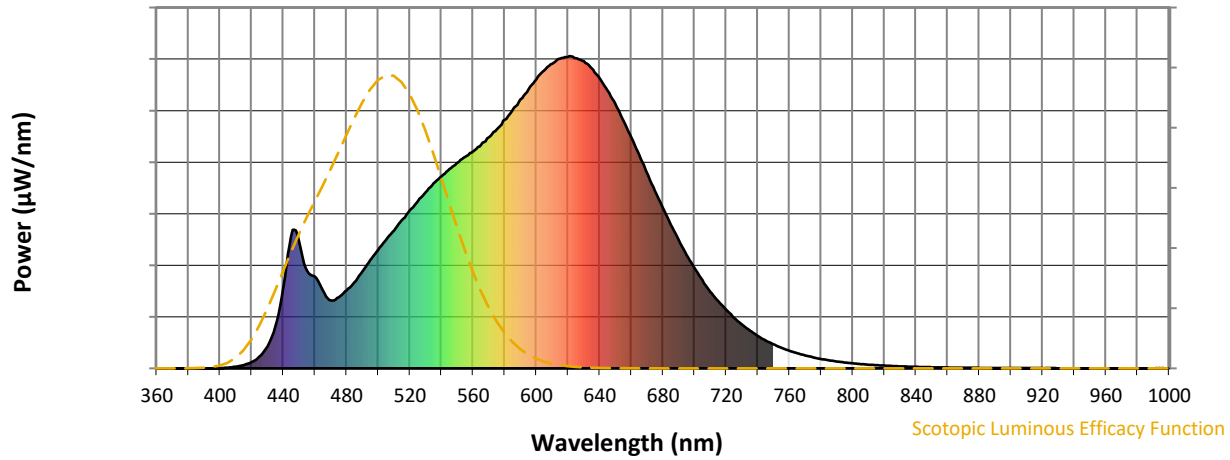


Photopic Lumens: NR

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



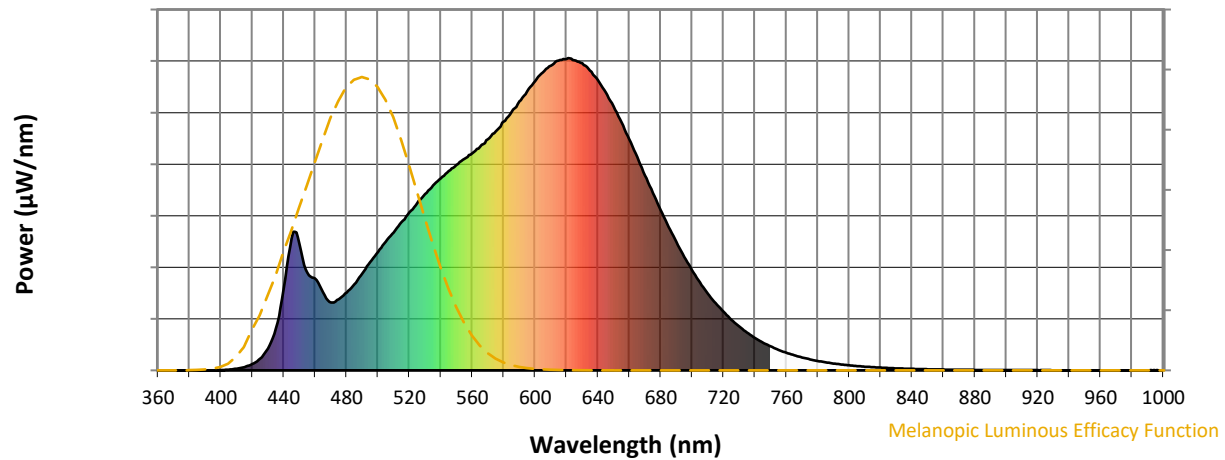
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

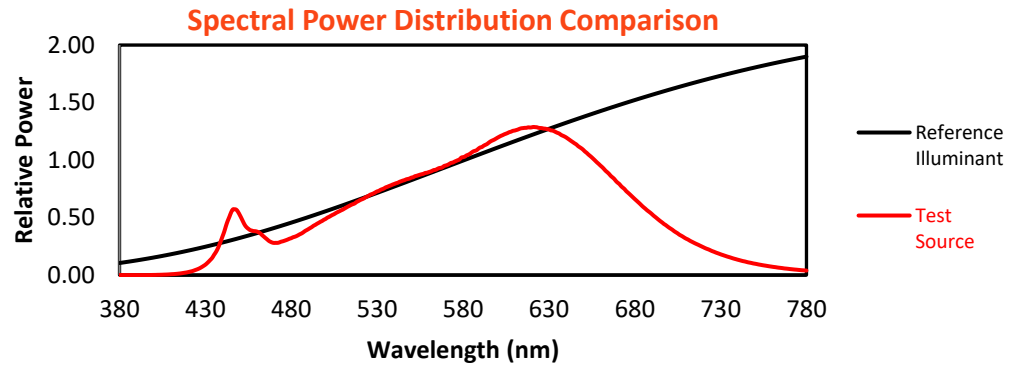
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	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			

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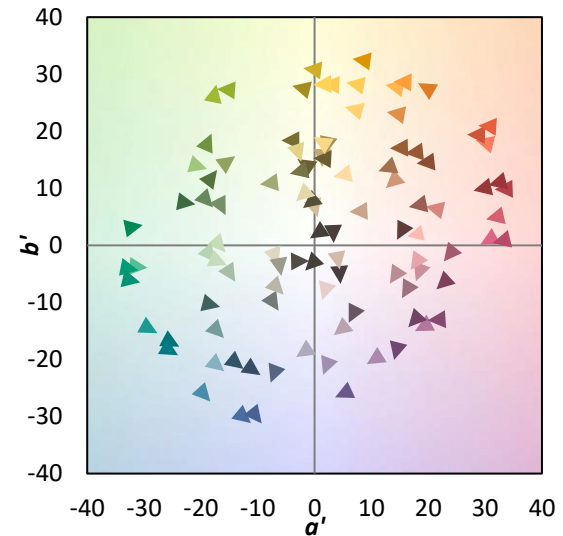
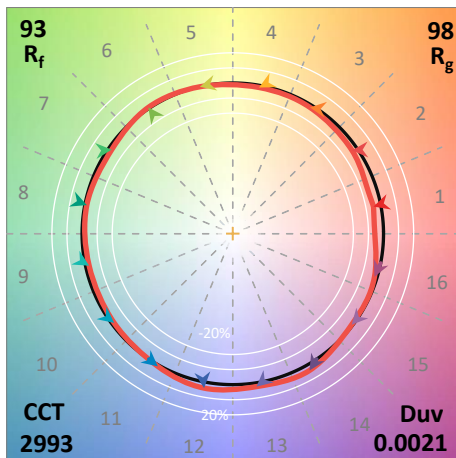
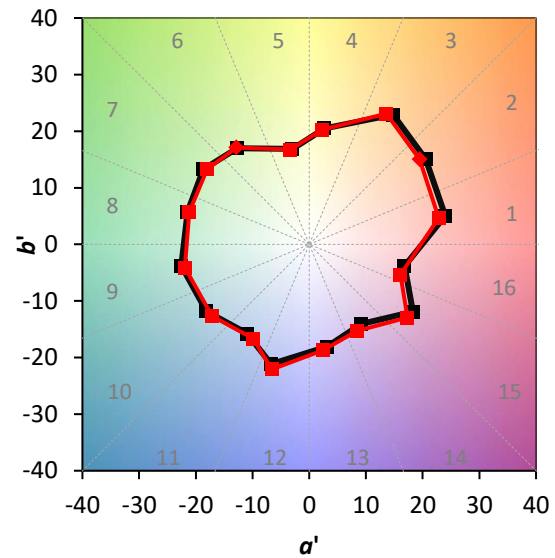
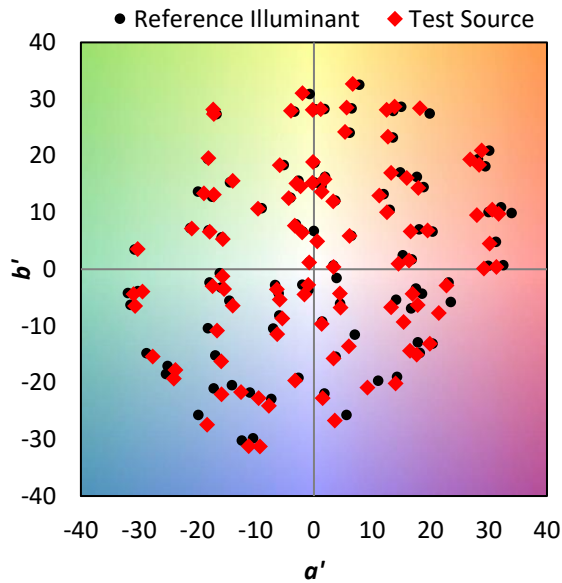
TM-30-18

Summary

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

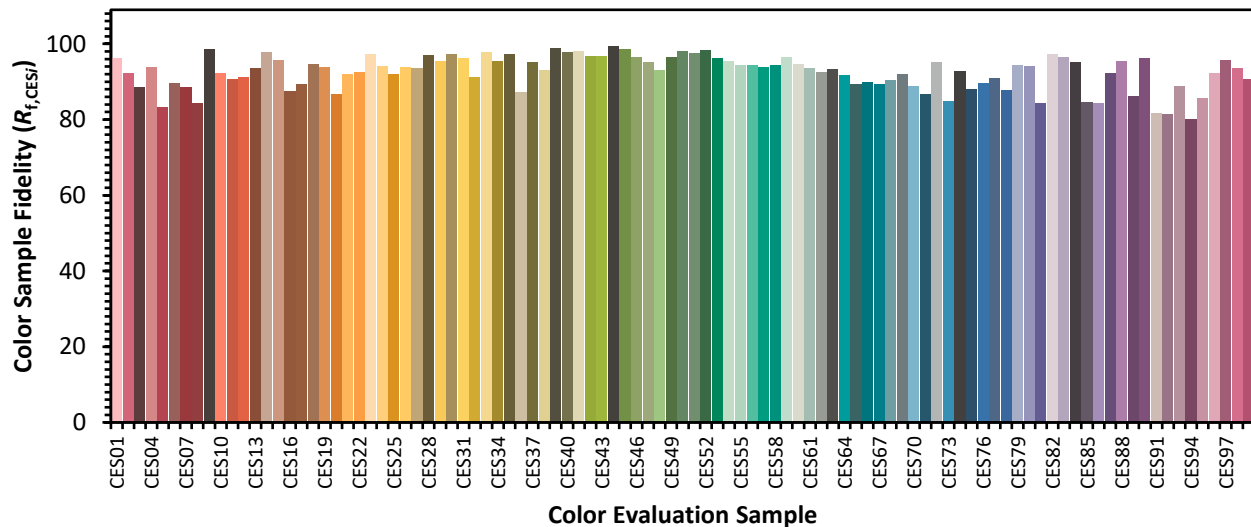


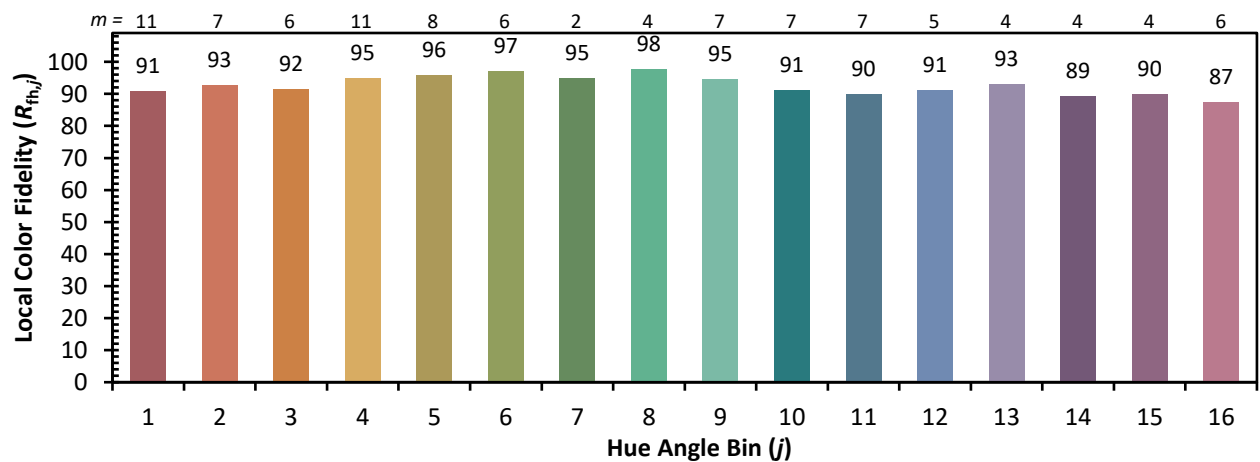
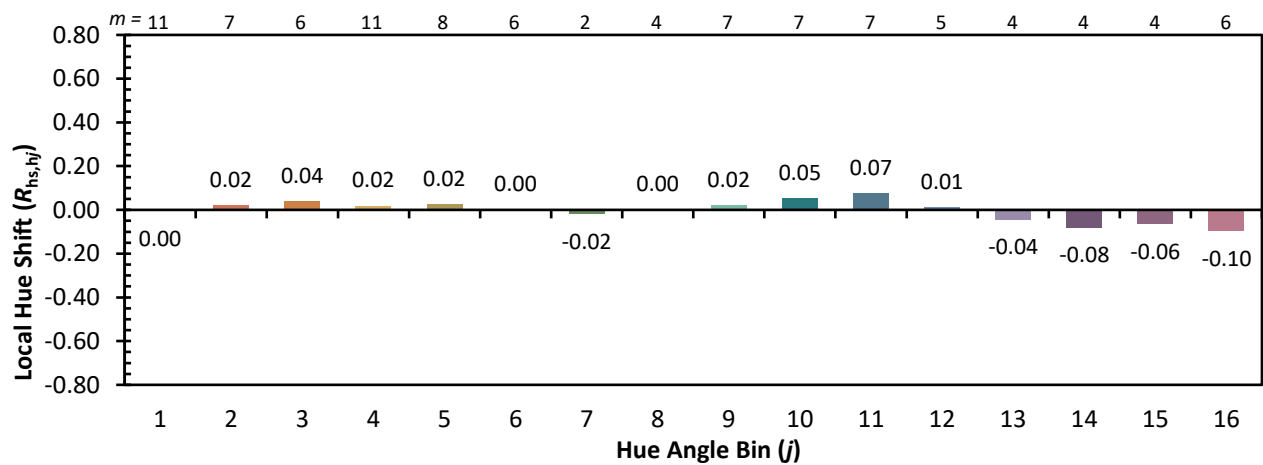
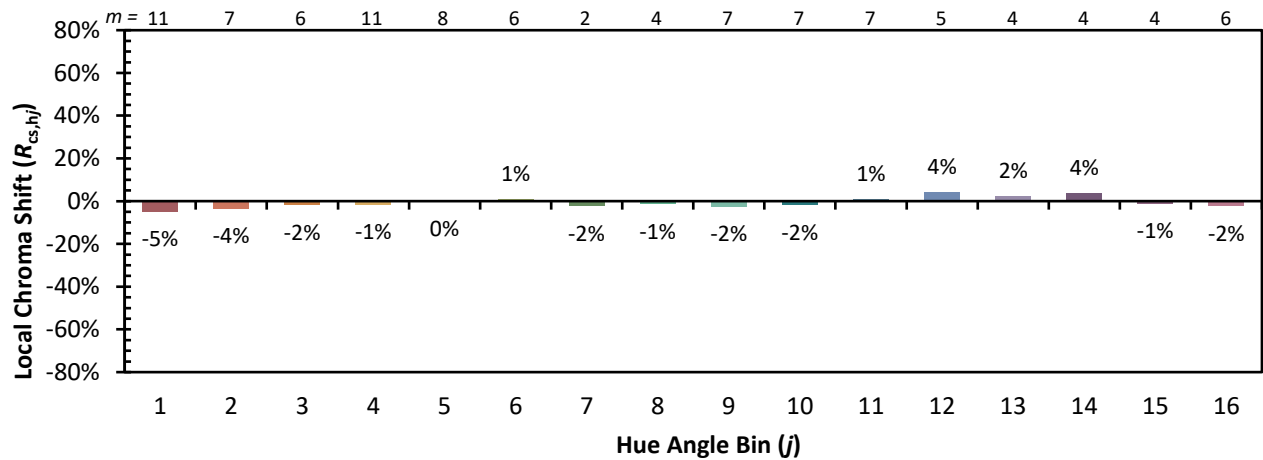
Color Vector Graphics



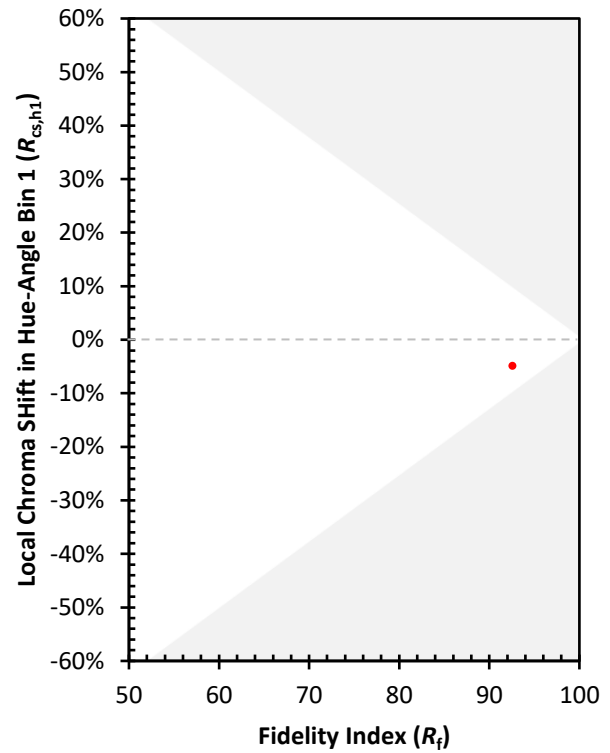
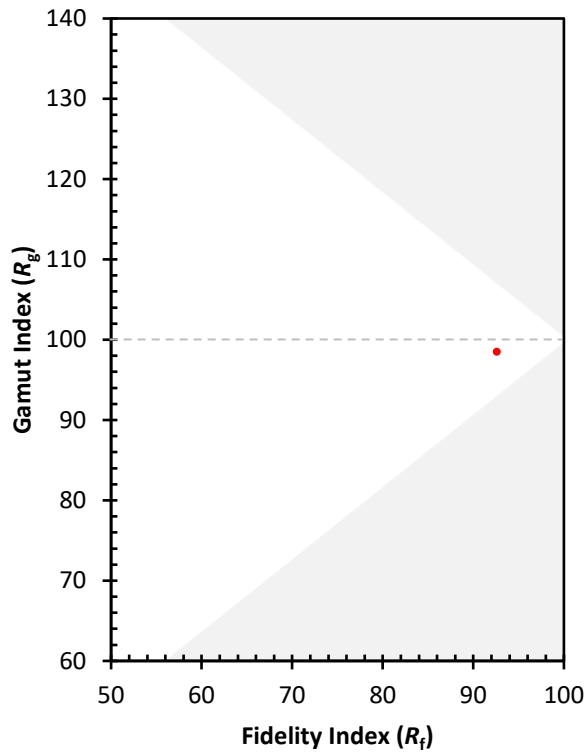
Individual Sample Fidelity Index ($R_{f,i}$)

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)