

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: P1050005

Luminaire Tested: **GALN-SA2A-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050005
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4881.1 lumens
Efficiency: N/A
Efficacy: 87.5 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

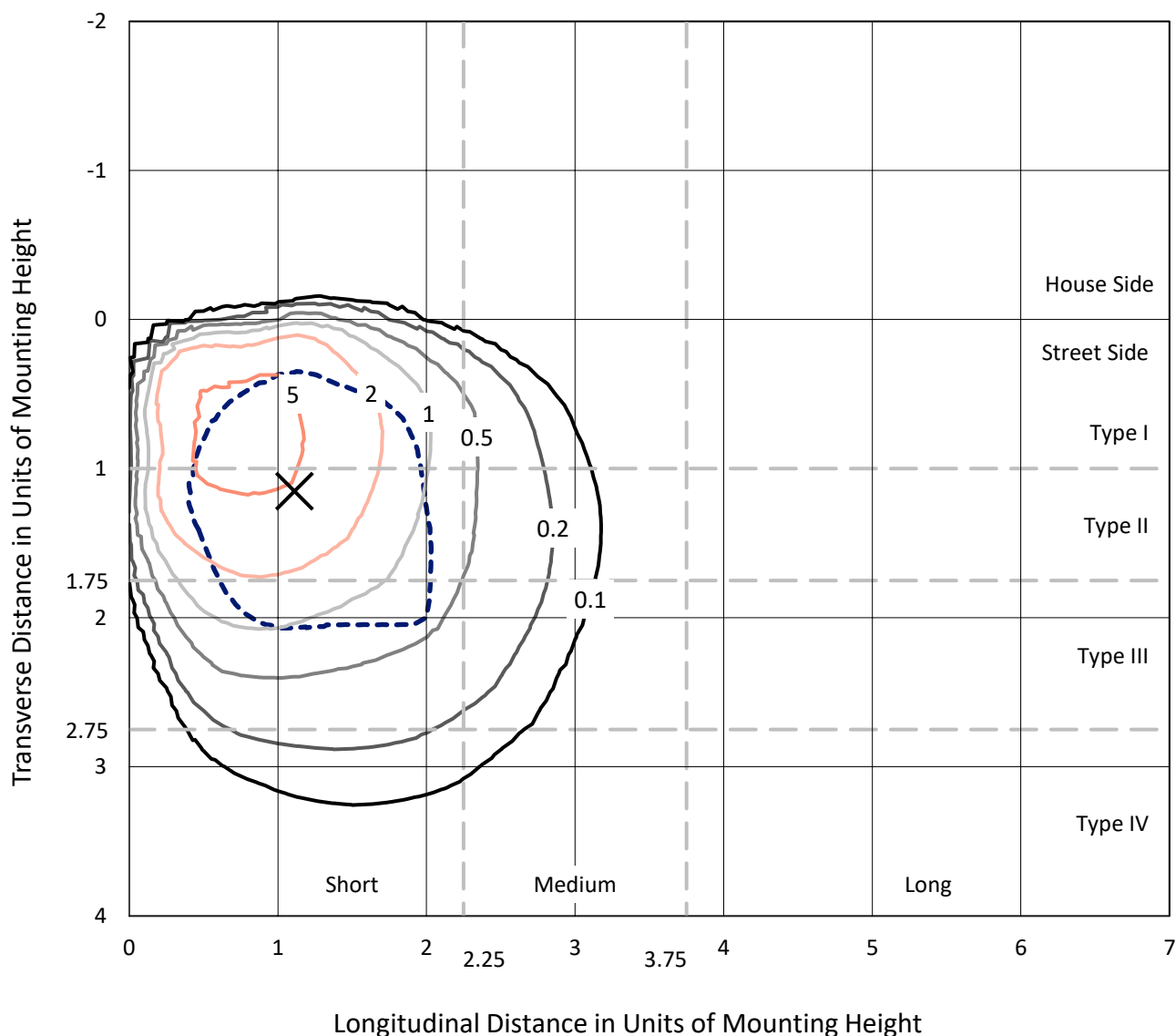
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

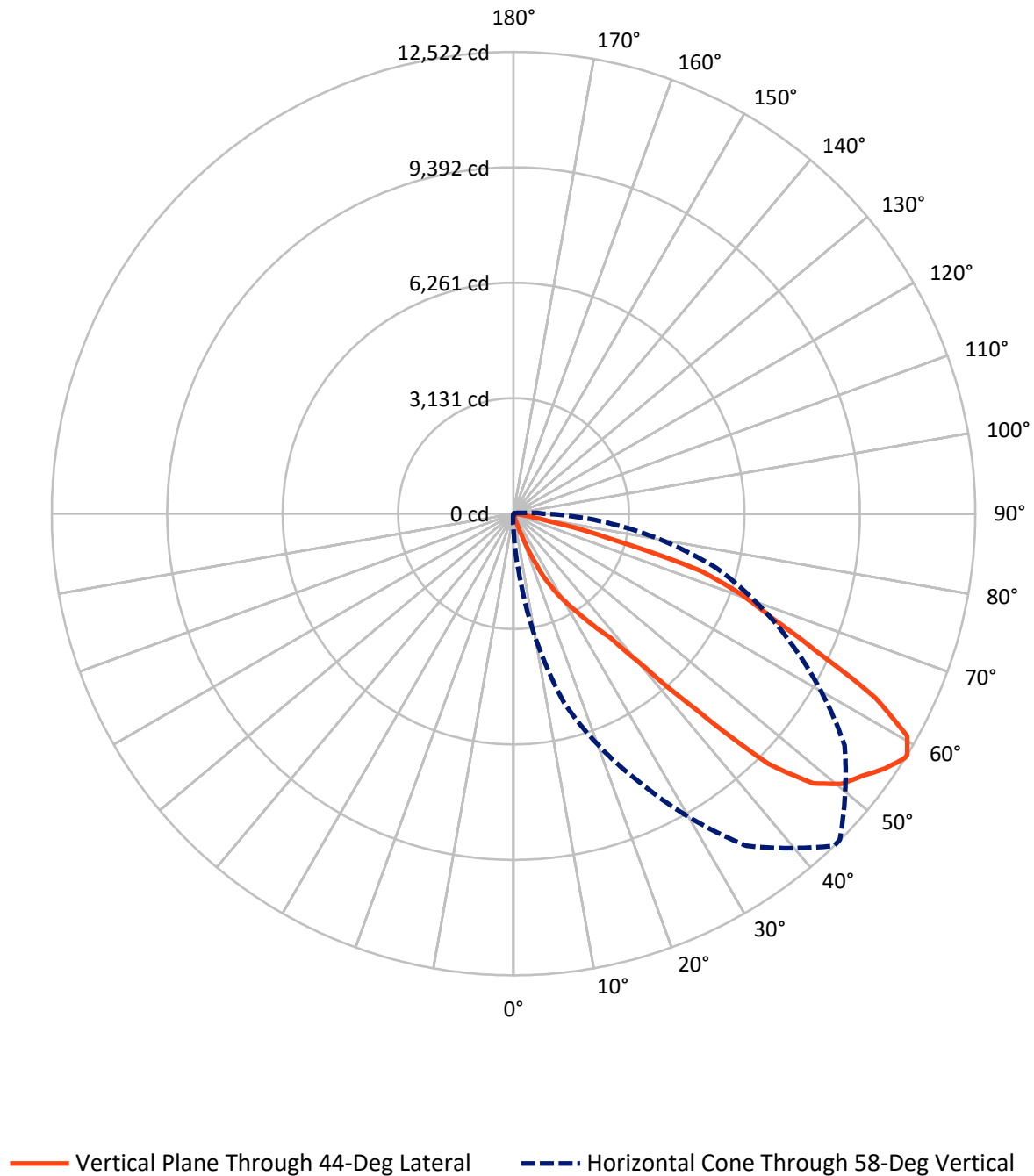


Based on 20 foot mounting height. Maximum calculated value = 8.5 fc

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	33.3	0.0	33.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4847.8	0.0	4847.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	4881.1	0.0	4881.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.0
10°-20°	10.7	0.2
20°-30°	115.6	2.4
30°-40°	342.0	7.0
40°-50°	1019.3	20.9
50°-60°	1617.3	33.1
60°-70°	1349.0	27.6
70°-80°	416.1	8.5
80°-90°	9.2	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°	4881.1	100.0
0°-180°	4881.1	100.0



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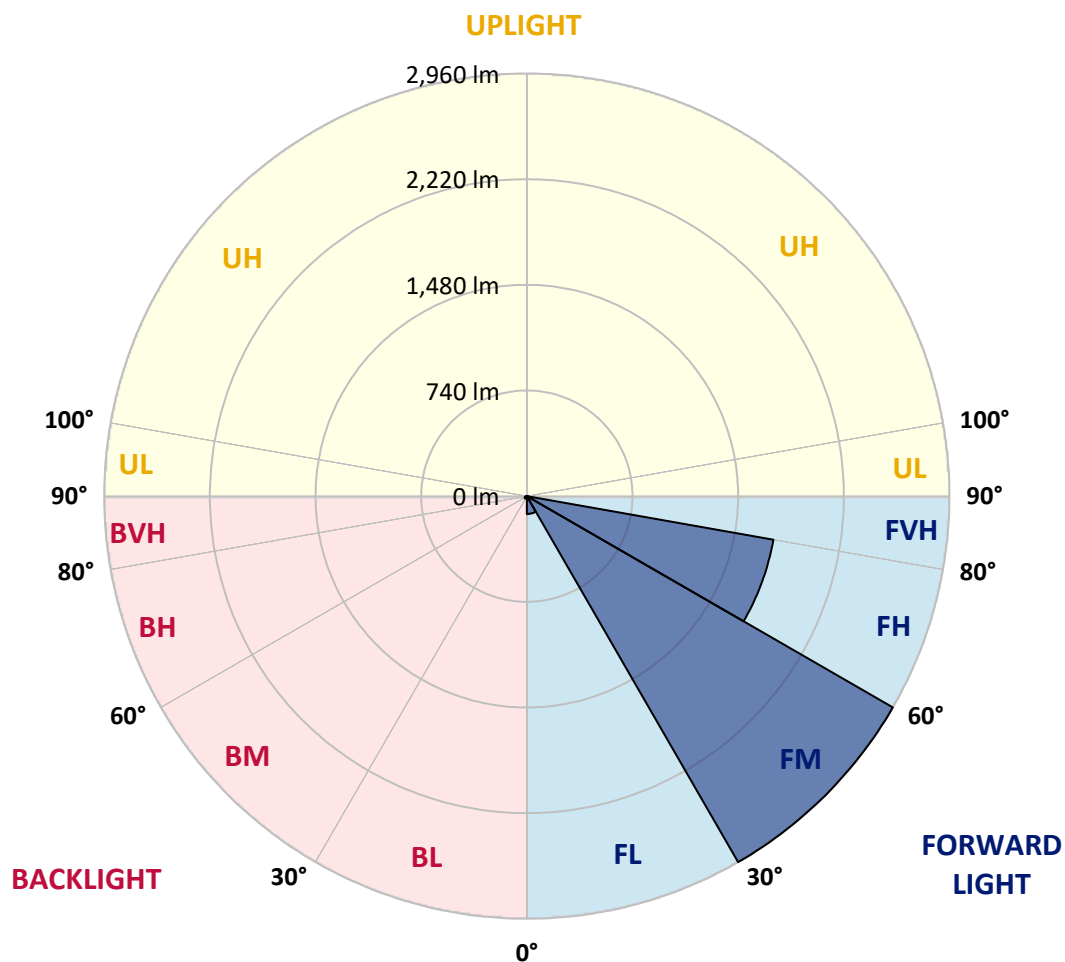
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.0	2.6			
FM	(30°-60°)	2960.3	60.6			
FH	(60°-80°)	1753.7	35.9			G1/1800
FVH	(80°-90°)	8.8	0.2			G0/10
BL	(0°-30°)	3.3	0.1	B0/110		
BM	(30°-60°)	18.2	0.4	B0/220		
BH	(60°-80°)	11.4	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°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
2.5°	27.7	27.7	26.5	25.1	23.6	22.1	21.8	21.0	20.6	20.3
5°	28.8	28.8	28.4	27.3	25.8	24.7	24.7	23.6	22.9	22.1
7.5°	29.5	29.9	30.6	30.2	29.5	28.4	28.4	27.7	26.5	24.7
10°	30.6	31.7	33.2	33.9	34.3	34.3	33.9	33.6	31.7	29.1
12.5°	31.7	33.9	37.6	41.3	43.5	46.5	46.1	45.4	40.6	35.0
15°	33.9	37.2	45.0	55.7	72.3	82.6	86.7	83.0	67.1	47.2
17.5°	36.5	42.0	65.3	116.5	191.0	226.4	247.8	230.5	152.7	89.6
20°	39.1	51.3	121.3	302.0	495.6	611.4	643.4	593.3	380.9	170.7
22.5°	43.5	71.9	245.9	624.3	1067.8	1241.5	1274.3	1113.9	719.4	337.0
25°	52.7	104.4	424.0	1017.3	1593.6	1886.8	1873.1	1663.0	1167.0	538.3
27.5°	66.0	151.9	641.2	1445.4	2097.3	2355.8	2386.8	2126.8	1555.7	791.7
30°	85.2	210.5	874.3	1788.3	2501.1	2780.6	2785.7	2516.9	1903.4	1014.0
32.5°	103.6	265.9	1078.2	2119.8	2898.9	3205.4	3228.2	2897.5	2163.0	1245.6
35°	117.6	302.0	1284.6	2411.1	3300.1	3722.3	3720.8	3328.1	2470.5	1452.4
37.5°	118.7	338.1	1471.6	2709.0	3808.2	4280.9	4327.8	3894.9	2842.2	1708.3
40°	116.1	378.7	1708.3	3173.6	4723.8	5449.1	5490.4	4944.6	3587.7	2146.4
42.5°	119.1	449.1	2092.5	4031.7	6244.0	7285.7	7365.3	6791.6	4958.3	3040.2
45°	134.6	581.5	2897.5	5467.1	8411.1	9681.0	9654.4	8828.1	6553.0	4400.8
47.5°	185.8	905.6	4090.7	6864.2	9796.0	10926.9	10949.8	9939.8	7483.7	5446.9
50°	285.8	1385.7	5093.2	7602.8	10391.5	11526.1	11504.7	10337.7	7837.3	5962.0
52.5°	371.7	1733.0	5596.2	7862.0	10467.8	11822.2	11820.7	10442.4	7892.3	6006.2
55°	393.1	1759.2	5600.2	7876.0	10638.9	12209.7	12258.4	10700.1	7963.4	5813.0
57.5°	384.6	1557.5	5366.5	7957.2	10943.5	12509.5	12512.1	10949.8	8144.1	5694.6
58°	377.2	1525.8	5319.3	8003.2	10995.8	12522.0	12515.7	10961.2	8291.2	5690.2
60°	335.9	1324.8	5135.3	8120.9	10918.0	12264.6	12206.0	10711.6	8269.5	5644.9
62.5°	264.0	1033.5	4954.2	7984.8	10084.0	11018.7	11043.0	9483.3	7538.7	5380.5
65°	210.2	770.3	4576.7	7004.0	8303.8	9048.6	9139.3	7711.6	6292.3	4556.0
67.5°	167.4	556.8	3839.2	5576.3	6570.7	7551.9	7617.9	6474.5	4875.0	3490.8
70°	136.1	376.5	2650.1	4078.1	5419.6	6522.8	6526.9	5378.6	3638.6	2287.2
72.5°	120.6	260.7	1538.3	2974.2	4394.5	5315.2	5207.9	4364.6	2796.4	1354.7
75°	104.4	172.9	754.4	1818.2	2664.4	2682.5	2723.4	2024.7	1397.8	644.2
77.5°	85.9	122.8	297.2	496.7	799.0	1022.9	1060.8	803.8	465.0	158.6
80°	59.0	58.3	80.0	152.3	228.6	286.5	267.3	206.9	121.7	60.8
82.5°	25.4	27.7	36.1	43.5	35.4	34.3	32.8	21.0	16.2	12.5
85°	8.1	7.4	7.7	7.7	6.3	4.8	4.8	2.2	0.0	0.0
87.5°	4.1	3.3	3.3	2.9	1.8	0.7	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°
21.4	0°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
19.9	2.5°	19.5	19.5	18.8	18.1	17.7	17.0	16.6	16.2	15.9	15.5
21.4	5°	20.6	20.3	19.2	18.1	17.0	15.9	15.1	14.4	13.6	13.3
23.6	7.5°	22.5	21.8	19.5	17.7	16.2	14.7	14.0	12.9	12.2	11.1
26.2	10°	24.7	23.2	20.3	18.1	15.9	14.0	12.9	11.8	10.7	9.2
29.9	12.5°	27.7	25.1	21.4	17.7	15.1	12.9	11.8	10.3	9.2	8.1
34.7	15°	30.2	26.9	21.8	17.7	14.4	11.8	10.3	8.8	7.7	6.3
43.5	17.5°	33.9	28.4	21.4	16.6	13.3	10.3	8.8	7.7	5.9	3.7
64.5	20°	40.2	29.5	20.6	15.5	11.4	8.5	6.6	5.2	2.6	0.7
97.0	22.5°	50.1	32.4	19.9	14.0	10.0	6.6	4.4	1.8	0.0	0.0
147.5	25°	69.3	37.6	19.9	13.3	8.8	4.8	1.5	0.0	0.0	0.0
209.4	27.5°	92.2	44.6	19.9	11.4	7.0	2.6	0.0	0.0	0.0	0.0
285.4	30°	115.4	52.4	19.9	10.0	5.5	0.4	0.0	0.0	0.0	0.0
351.4	32.5°	137.5	59.0	20.3	8.5	3.7	0.0	0.0	0.0	0.0	0.0
442.8	35°	160.0	60.1	19.9	7.4	2.2	0.0	0.0	0.0	0.0	0.0
554.9	37.5°	188.8	57.9	18.8	6.6	1.1	0.0	0.0	0.0	0.0	0.0
730.1	40°	232.3	59.0	17.7	6.3	0.4	0.0	0.0	0.0	0.0	0.0
1042.4	42.5°	312.7	63.8	16.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0
1660.4	45°	540.6	85.5	14.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0
2492.6	47.5°	894.2	153.8	14.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0
3002.6	50°	1141.2	193.6	15.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
3066.3	52.5°	1139.4	215.7	15.9	7.4	1.5	0.0	0.0	0.0	0.0	0.0
2826.3	55°	1012.9	219.8	17.0	8.1	4.8	0.0	0.0	0.0	0.0	0.0
2428.8	57.5°	846.6	200.6	19.5	10.0	8.8	0.0	0.0	0.0	0.0	0.0
2366.5	58°	817.1	191.7	20.3	10.3	9.6	0.0	0.0	0.0	0.0	0.0
2052.7	60°	669.6	156.3	25.8	12.9	12.9	0.0	0.0	0.0	0.0	0.0
1682.9	62.5°	462.4	136.4	29.5	16.6	13.3	0.0	0.0	0.0	0.0	0.0
1240.8	65°	327.1	123.2	32.1	17.7	10.7	0.0	0.0	0.0	0.0	0.0
881.6	67.5°	244.5	113.6	35.4	18.1	5.5	0.0	0.0	0.0	0.0	0.0
553.1	70°	187.3	106.6	43.5	19.2	1.5	0.0	0.0	0.0	0.0	0.0
329.6	72.5°	152.7	98.5	52.7	19.9	0.0	0.0	0.0	0.0	0.0	0.0
197.6	75°	126.5	88.9	50.9	21.8	0.0	0.0	0.0	0.0	0.0	0.0
105.5	77.5°	84.1	69.0	46.5	21.8	0.0	0.0	0.0	0.0	0.0	0.0
37.6	80°	29.5	27.3	36.1	19.2	0.0	0.0	0.0	0.0	0.0	0.0
7.7	82.5°	4.4	3.7	5.2	6.6	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°
21.4	0°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
15.1	2.5°	15.1	15.1	14.7	15.1	15.1	15.9	17.7	20.3	23.2	24.3
12.9	5°	12.5	12.2	11.8	11.8	11.8	12.9	14.4	17.3	20.6	22.1
10.7	7.5°	10.3	10.0	9.6	9.2	9.2	10.0	11.8	15.1	18.4	19.9
8.8	10°	8.5	7.7	7.4	7.0	7.0	7.7	9.6	12.9	16.6	18.1
7.4	12.5°	7.0	5.9	5.2	4.8	4.4	5.5	7.4	10.3	14.4	16.2
5.5	15°	4.8	3.7	2.6	2.2	1.8	2.9	4.8	8.1	12.2	14.4
2.9	17.5°	2.6	1.1	0.4	0.0	0.0	0.7	2.2	5.9	10.0	11.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.4	9.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.4	6.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.3
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	1.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.9
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°
21.4	0°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
25.4	2.5°	26.2	25.8	25.1	24.3	24.3	24.3	25.4	26.5	27.7	27.7
22.9	5°	24.3	24.3	24.0	23.2	23.2	23.6	25.1	26.9	28.4	28.8
21.0	7.5°	22.5	23.2	22.5	22.1	22.5	22.9	24.3	26.5	28.8	29.5
19.5	10°	21.4	21.8	21.8	21.4	21.4	22.1	23.6	26.5	29.5	30.6
17.7	12.5°	19.9	20.6	20.3	20.3	20.3	21.0	22.9	26.2	30.2	31.7
15.9	15°	18.4	19.5	19.5	19.2	19.2	19.5	22.1	25.8	31.3	33.9
13.6	17.5°	17.0	18.1	18.4	17.7	17.7	18.4	21.0	25.8	32.1	36.5
11.1	20°	14.0	15.9	17.0	15.9	15.9	16.6	19.2	24.3	32.4	39.1
8.1	22.5°	11.1	12.9	14.4	14.0	14.0	14.4	17.7	23.2	32.8	43.5
4.8	25°	8.1	10.0	11.1	11.8	11.8	12.9	16.2	22.5	34.3	52.7
2.2	27.5°	4.8	7.0	8.5	9.2	9.6	11.1	15.1	21.8	36.9	66.0
0.0	30°	2.2	4.1	5.9	7.4	7.4	10.0	14.0	21.0	40.2	85.2
0.0	32.5°	0.0	1.8	2.9	5.2	5.5	8.1	12.9	20.3	45.0	103.6
0.0	35°	0.0	0.0	1.5	4.1	4.1	6.6	11.8	19.5	52.4	117.6
0.0	37.5°	0.0	0.0	0.0	2.9	3.3	5.9	11.4	19.2	53.8	118.7
0.0	40°	0.0	0.0	0.0	2.2	2.6	5.5	11.4	19.5	48.7	116.1
0.0	42.5°	0.0	0.0	0.0	1.5	1.8	5.5	11.4	20.3	43.9	119.1
0.0	45°	0.0	0.0	0.0	1.1	1.5	5.9	11.1	19.9	41.3	134.6
0.0	47.5°	0.0	0.0	0.0	1.5	2.2	5.9	10.7	19.5	41.7	185.8
0.0	50°	0.0	0.0	0.0	1.8	2.6	5.9	11.1	18.8	45.7	285.8
0.0	52.5°	0.0	0.0	0.0	1.5	2.2	6.6	12.2	18.4	49.8	371.7
0.0	55°	0.0	0.0	0.0	0.4	1.1	8.5	13.3	18.4	56.0	393.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	9.6	15.1	19.5	66.4	384.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	9.6	15.5	19.5	67.1	377.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	9.6	17.0	21.8	72.3	335.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	8.1	20.3	27.3	75.2	264.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.6	24.0	29.9	77.4	210.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.3	24.7	30.2	78.5	167.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.6	24.3	32.4	82.2	136.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.4	22.1	35.8	82.2	120.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	7.7	20.6	40.2	74.9	104.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.4	20.3	46.8	66.7	85.9
0.0	80°	0.7	1.1	1.1	0.7	0.7	6.3	19.9	47.6	56.8	59.0
0.4	82.5°	2.2	2.9	2.6	1.8	1.8	5.5	17.7	39.8	29.5	25.4
2.2	85°	4.1	4.8	4.8	4.1	4.1	5.2	11.1	14.4	10.0	8.1
4.1	87.5°	5.5	6.3	6.3	5.5	5.5	5.2	4.8	4.4	4.1	4.1
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

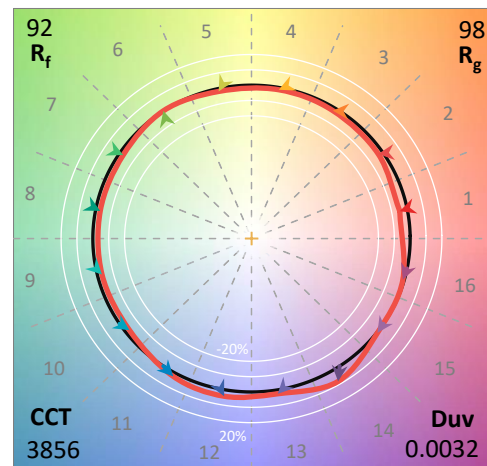
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

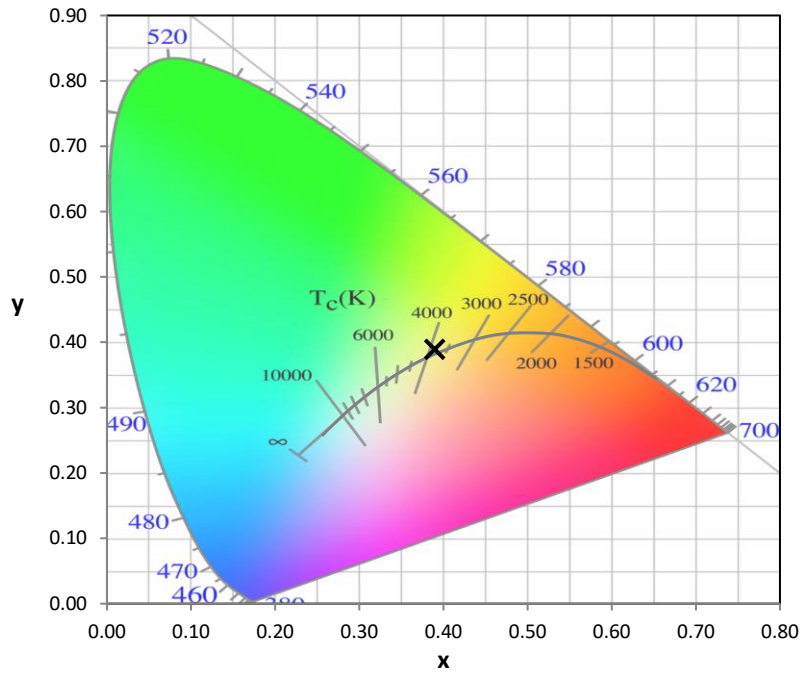
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

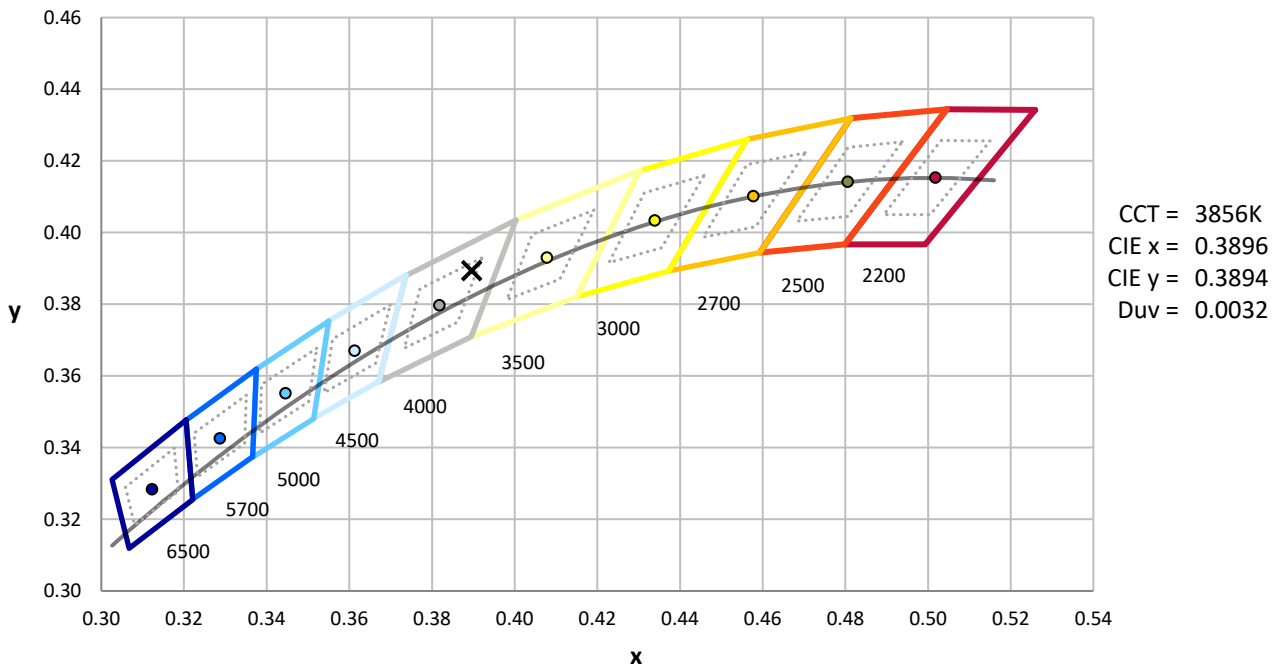
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



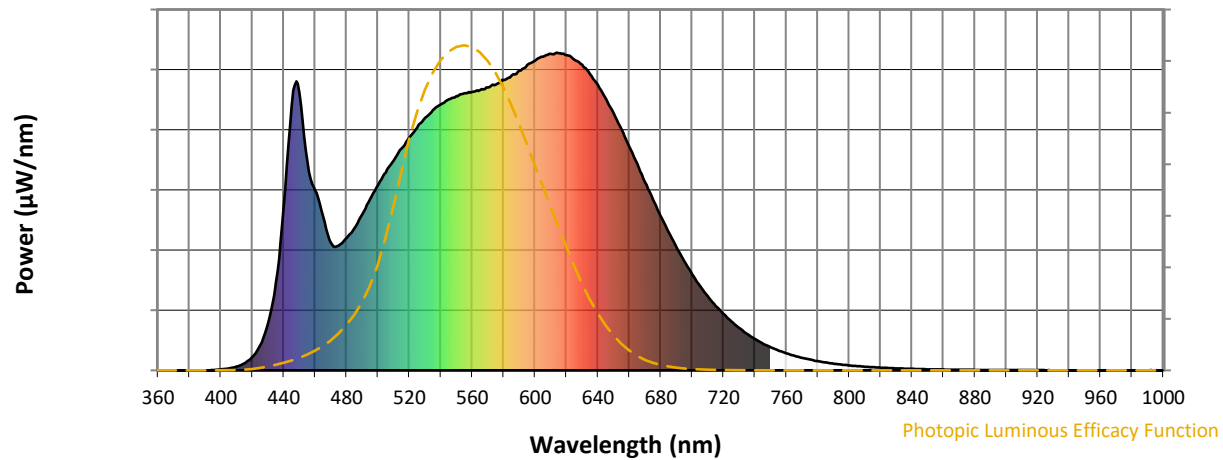
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

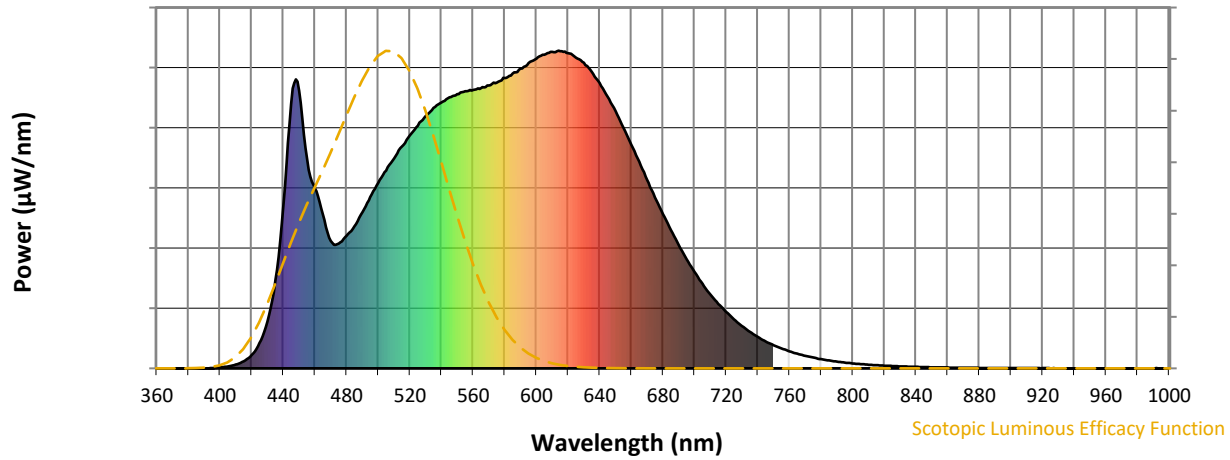


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



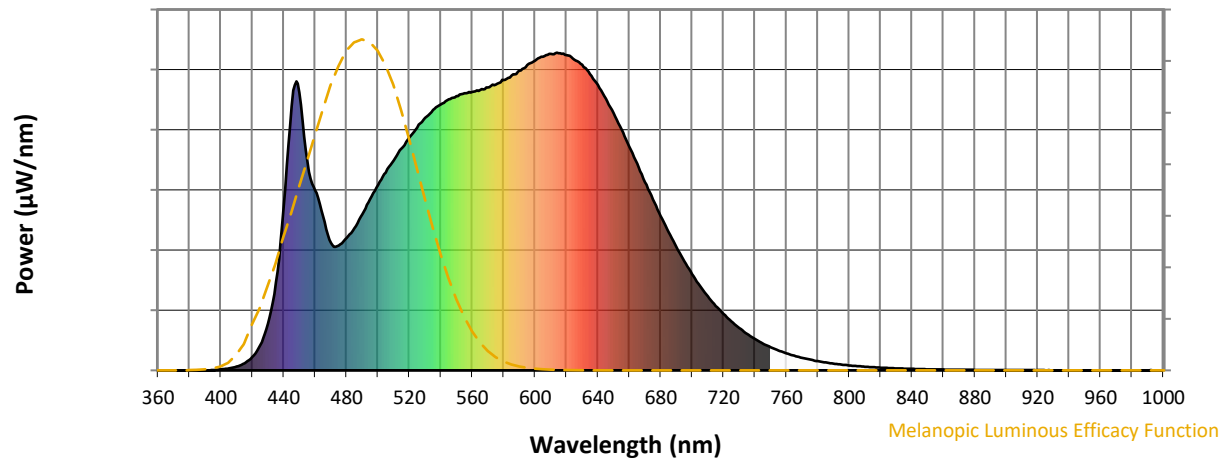
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.52

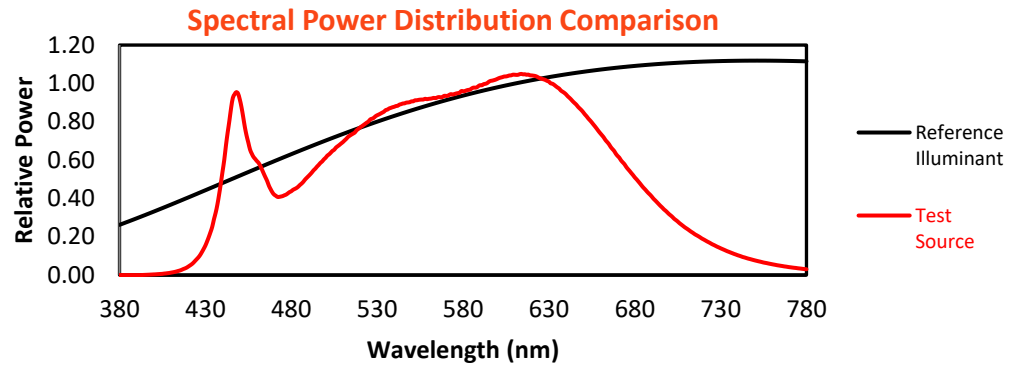
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

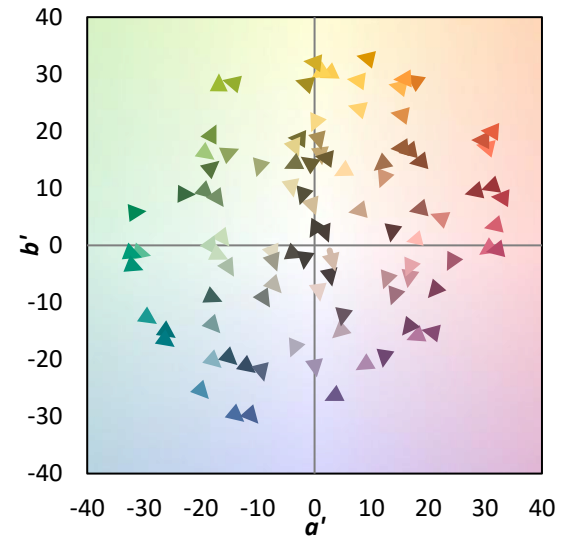
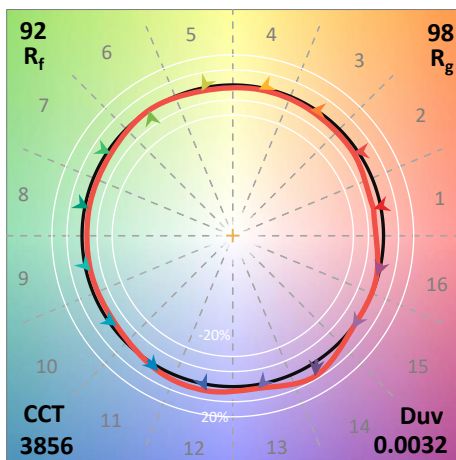
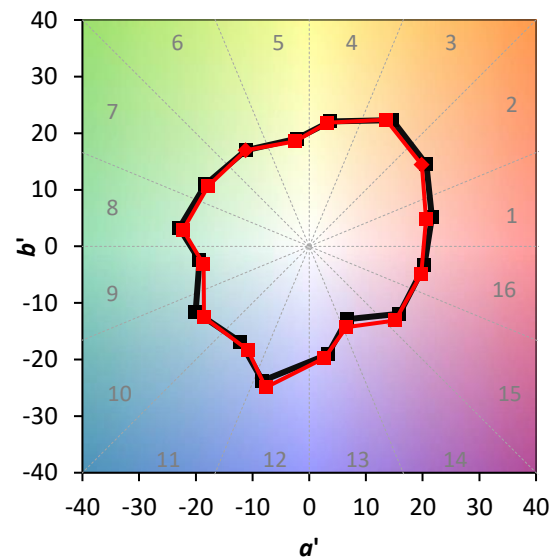
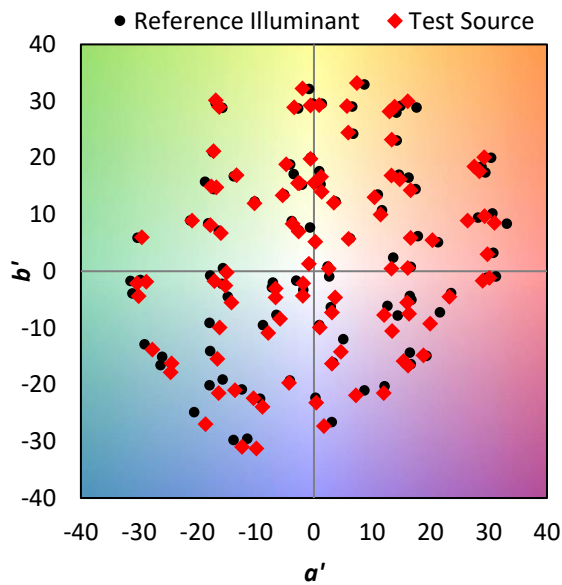
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $\text{CIE } R_a = 92.1$
 $R_9 = 60.7$

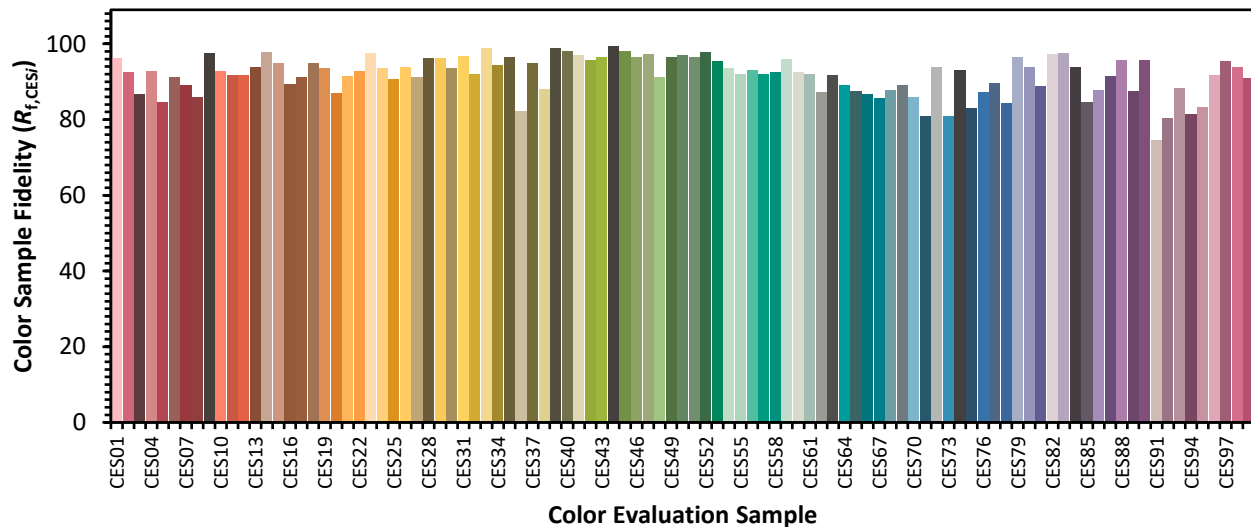


Color Vector Graphics

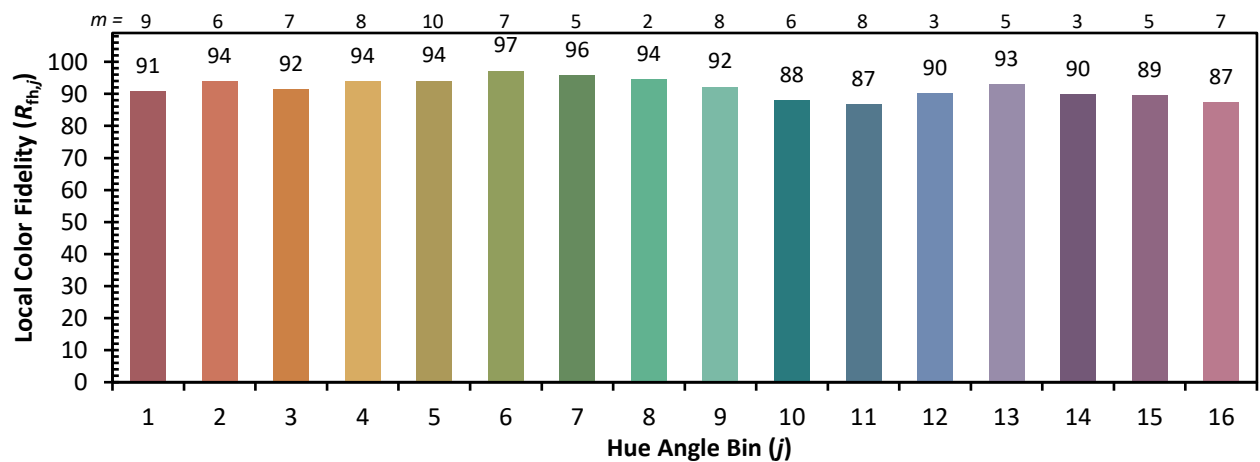
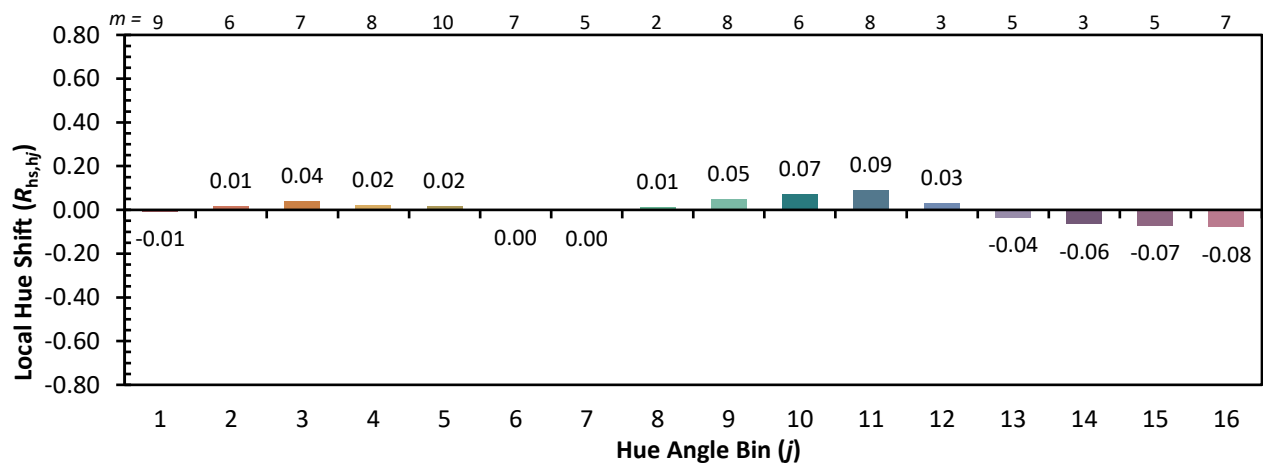
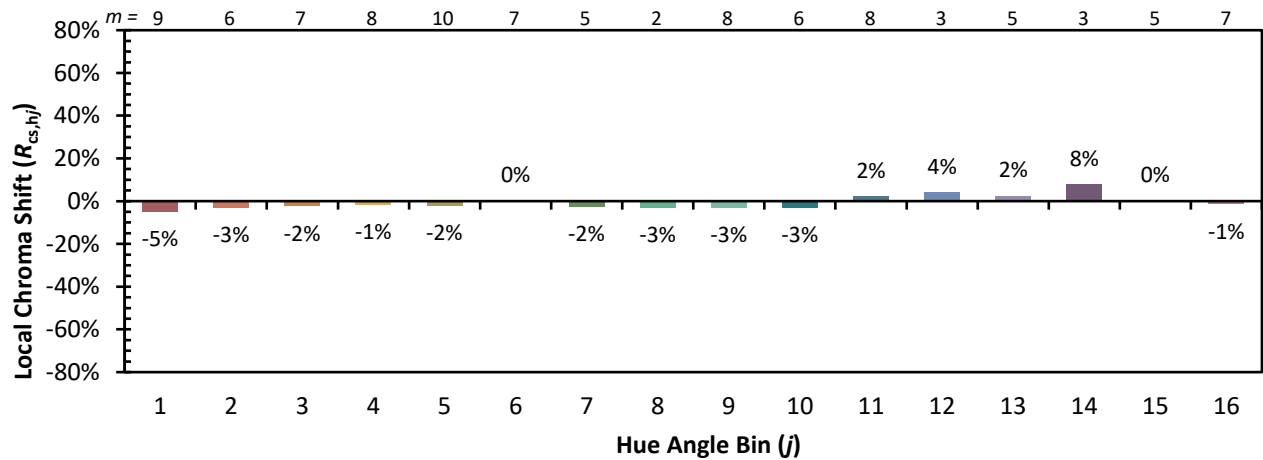


Individual Sample Fidelity Index ($R_{f,i}$)

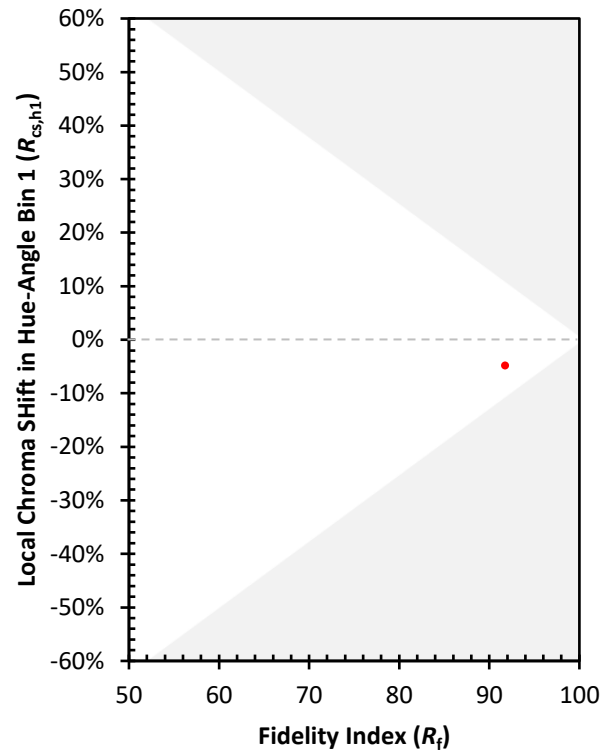
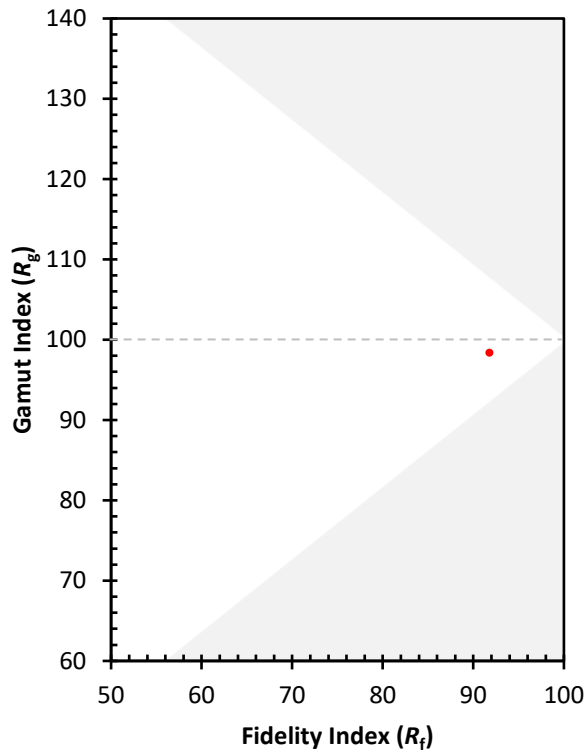
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)