

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: P1050041

Luminaire Tested: **GALN-SA2A-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050041
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5277.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

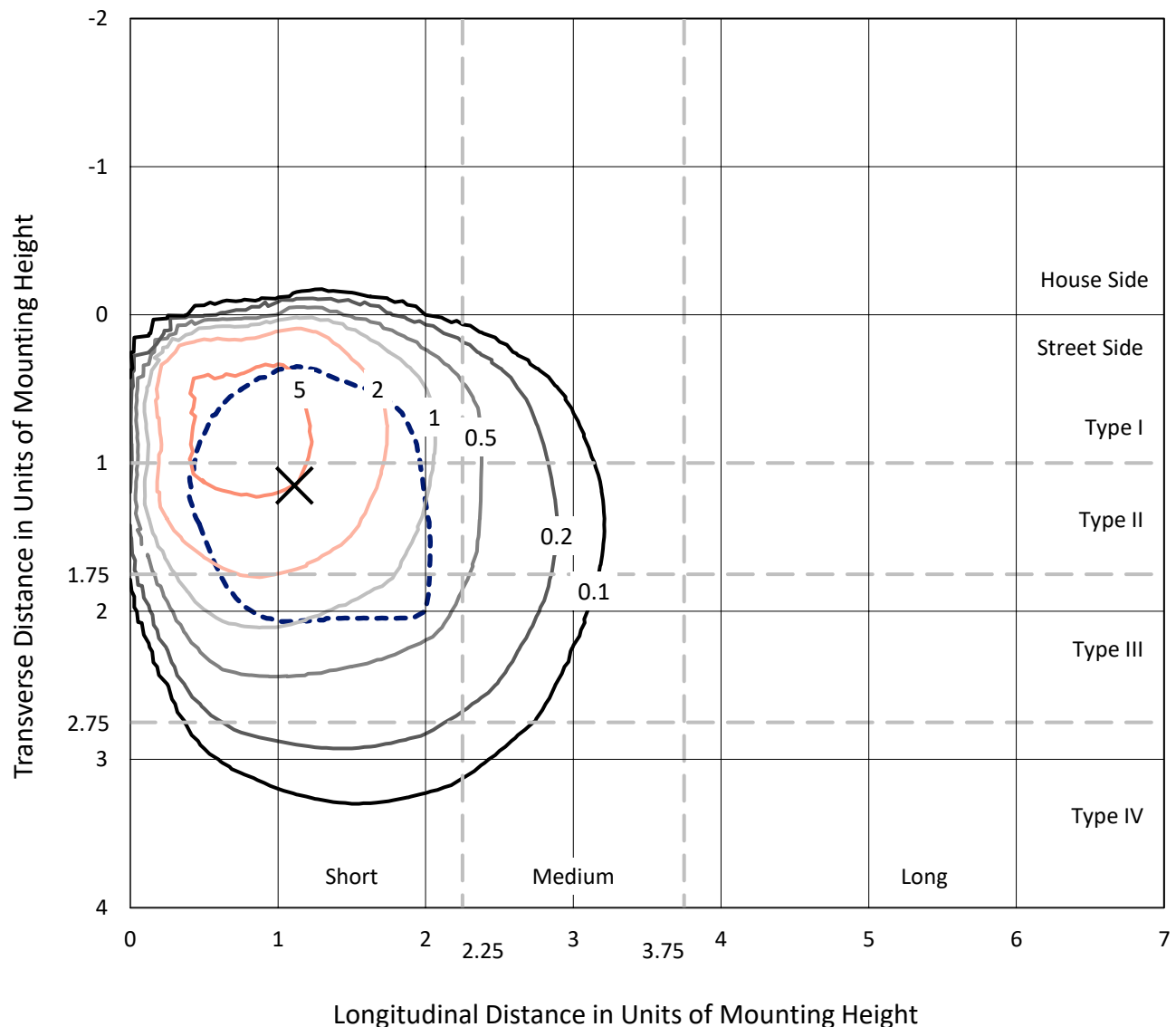
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

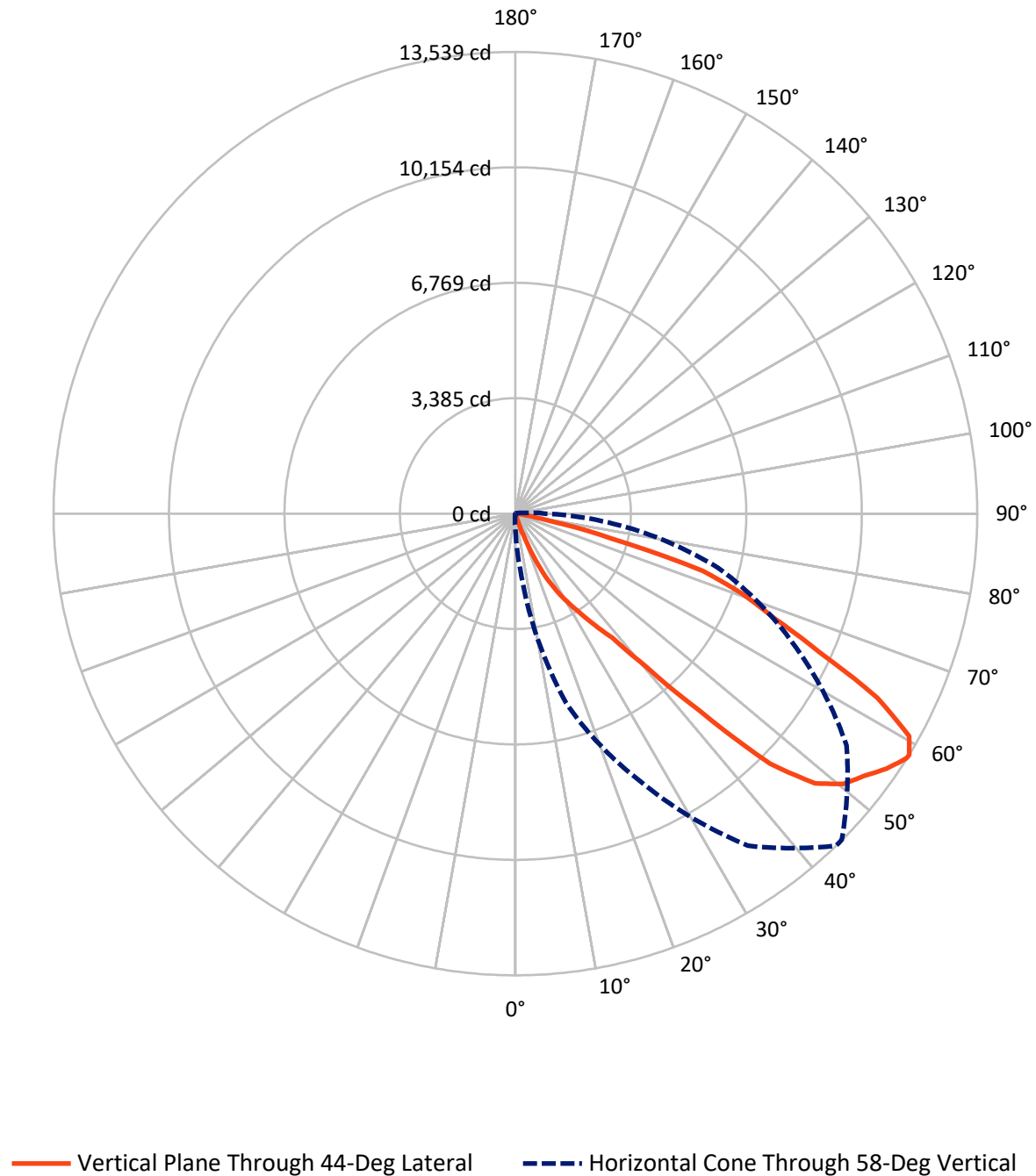
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	36.0	0.0	36.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5241.5	0.0	5241.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	5277.5	0.0	5277.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.0
10°-20°	11.6	0.2
20°-30°	125.0	2.4
30°-40°	369.7	7.0
40°-50°	1102.0	20.9
50°-60°	1748.6	33.1
60°-70°	1458.6	27.6
70°-80°	449.9	8.5
80°-90°	10.0	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°	5277.5	100.0
0°-180°	5277.5	100.0



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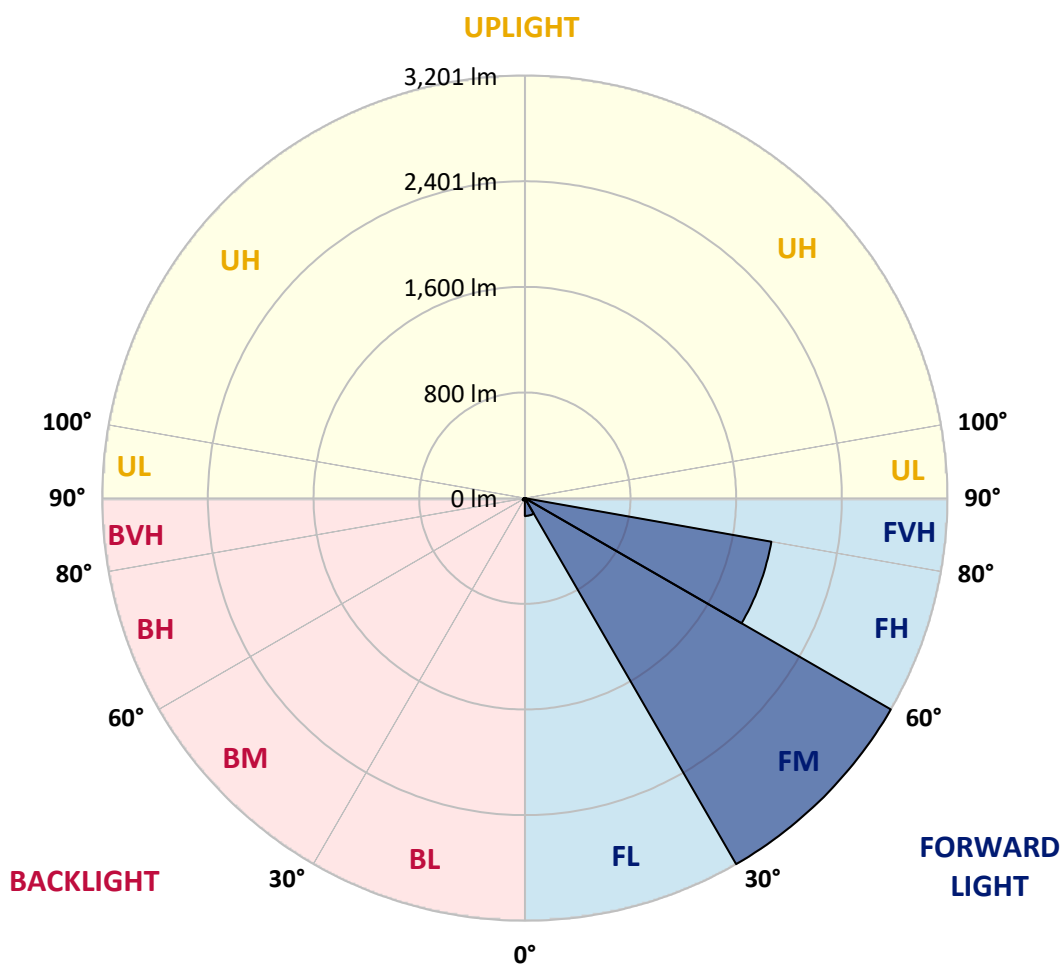
CATALOG NUMBER: GALN-SA2A-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.1	2.6			
FM	(30°-60°)	3200.7	60.6			
FH	(60°-80°)	1896.1	35.9			G2/5000
FVH	(80°-90°)	9.5	0.2			G0/10
BL	(0°-30°)	3.5	0.1	B0/110		
BM	(30°-60°)	19.7	0.4	B0/220		
BH	(60°-80°)	12.3	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°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	29.9	29.9	28.7	27.1	25.5	23.9	23.5	22.7	22.3	21.9
5°	31.1	31.1	30.7	29.5	27.9	26.7	26.7	25.5	24.7	23.9
7.5°	31.9	32.3	33.1	32.7	31.9	30.7	30.7	29.9	28.7	26.7
10°	33.1	34.3	35.9	36.7	37.1	37.1	36.7	36.3	34.3	31.5
12.5°	34.3	36.7	40.7	44.7	47.0	50.2	49.8	49.0	43.9	37.9
15°	36.7	40.3	48.6	60.2	78.1	89.3	93.7	89.7	72.6	51.0
17.5°	39.5	45.4	70.6	126.0	206.5	244.8	267.9	249.2	165.0	96.9
20°	42.3	55.4	131.2	326.5	535.8	661.0	695.7	641.5	411.8	184.6
22.5°	47.0	77.7	265.9	674.9	1154.5	1342.3	1377.8	1204.4	777.8	364.4
25°	57.0	112.8	458.5	1099.9	1723.1	2040.0	2025.2	1798.0	1261.8	582.1
27.5°	71.4	164.3	693.3	1562.8	2267.6	2547.1	2580.6	2299.5	1682.0	855.9
30°	92.1	227.6	945.2	1933.6	2704.2	3006.4	3012.0	2721.3	2057.9	1096.3
32.5°	112.0	287.4	1165.7	2292.0	3134.3	3465.6	3490.4	3132.8	2338.6	1346.7
35°	127.2	326.5	1389.0	2606.9	3568.1	4024.6	4023.0	3598.4	2671.1	1570.4
37.5°	128.4	365.6	1591.1	2929.0	4117.5	4628.6	4679.2	4211.2	3073.0	1847.0
40°	125.6	409.4	1847.0	3431.4	5107.4	5891.5	5936.2	5346.2	3879.1	2320.7
42.5°	128.8	485.6	2262.5	4359.1	6751.1	7877.3	7963.4	7343.1	5360.9	3287.0
45°	145.5	628.7	3132.8	5911.1	9094.1	10467.1	10438.4	9545.0	7085.2	4758.1
47.5°	200.9	979.1	4422.8	7421.6	10591.5	11814.2	11838.9	10747.0	8091.4	5889.2
50°	309.0	1498.2	5506.8	8220.2	11235.3	12462.0	12438.9	11177.1	8473.7	6446.1
52.5°	401.9	1873.8	6050.6	8500.4	11317.8	12782.2	12780.6	11290.3	8533.1	6493.9
55°	425.0	1902.1	6055.0	8515.6	11502.8	13201.2	13253.8	11569.0	8610.1	6285.0
57.5°	415.8	1684.0	5802.2	8603.3	11832.1	13525.3	13528.1	11838.9	8805.4	6157.1
58°	407.8	1649.7	5751.2	8653.1	11888.7	13538.8	13532.1	11851.3	8964.5	6152.3
60°	363.2	1432.4	5552.3	8780.3	11804.6	13260.6	13197.2	11581.4	8941.0	6103.2
62.5°	285.4	1117.5	5356.5	8633.2	10902.8	11913.5	11939.8	10253.4	8150.8	5817.4
65°	227.2	832.8	4948.3	7572.7	8978.1	9783.4	9881.4	8337.8	6803.3	4926.0
67.5°	181.0	602.0	4151.0	6029.1	7104.3	8165.2	8236.5	7000.3	5270.8	3774.2
70°	147.1	407.0	2865.2	4409.3	5859.7	7052.5	7056.9	5815.4	3934.1	2473.0
72.5°	130.4	281.9	1663.3	3215.7	4751.4	5746.8	5630.8	4719.1	3023.5	1464.7
75°	112.8	187.0	815.7	1965.8	2880.8	2900.3	2944.6	2189.1	1511.4	696.5
77.5°	92.9	132.8	321.3	537.0	863.9	1105.9	1147.0	869.1	502.7	171.4
80°	63.8	63.0	86.5	164.7	247.2	309.8	289.0	223.7	131.6	65.8
82.5°	27.5	29.9	39.1	47.0	38.3	37.1	35.5	22.7	17.5	13.6
85°	8.8	8.0	8.4	8.4	6.8	5.2	5.2	2.4	0.0	0.0
87.5°	4.4	3.6	3.6	3.2	2.0	0.8	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°
23.1	0°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
21.5	2.5°	21.1	21.1	20.3	19.5	19.1	18.3	17.9	17.5	17.1	16.7
23.1	5°	22.3	21.9	20.7	19.5	18.3	17.1	16.3	15.5	14.8	14.4
25.5	7.5°	24.3	23.5	21.1	19.1	17.5	15.9	15.1	14.0	13.2	12.0
28.3	10°	26.7	25.1	21.9	19.5	17.1	15.1	14.0	12.8	11.6	10.0
32.3	12.5°	29.9	27.1	23.1	19.1	16.3	14.0	12.8	11.2	10.0	8.8
37.5	15°	32.7	29.1	23.5	19.1	15.5	12.8	11.2	9.6	8.4	6.8
47.0	17.5°	36.7	30.7	23.1	17.9	14.4	11.2	9.6	8.4	6.4	4.0
69.8	20°	43.5	31.9	22.3	16.7	12.4	9.2	7.2	5.6	2.8	0.8
104.9	22.5°	54.2	35.1	21.5	15.1	10.8	7.2	4.8	2.0	0.0	0.0
159.5	25°	75.0	40.7	21.5	14.4	9.6	5.2	1.6	0.0	0.0	0.0
226.4	27.5°	99.7	48.2	21.5	12.4	7.6	2.8	0.0	0.0	0.0	0.0
308.6	30°	124.8	56.6	21.5	10.8	6.0	0.4	0.0	0.0	0.0	0.0
379.9	32.5°	148.7	63.8	21.9	9.2	4.0	0.0	0.0	0.0	0.0	0.0
478.8	35°	173.0	65.0	21.5	8.0	2.4	0.0	0.0	0.0	0.0	0.0
600.0	37.5°	204.1	62.6	20.3	7.2	1.2	0.0	0.0	0.0	0.0	0.0
789.4	40°	251.2	63.8	19.1	6.8	0.4	0.0	0.0	0.0	0.0	0.0
1127.0	42.5°	338.1	69.0	17.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
1795.2	45°	584.5	92.5	15.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0
2695.0	47.5°	966.8	166.2	15.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0
3246.4	50°	1233.9	209.3	16.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0
3315.3	52.5°	1231.9	233.2	17.1	8.0	1.6	0.0	0.0	0.0	0.0	0.0
3055.8	55°	1095.1	237.6	18.3	8.8	5.2	0.0	0.0	0.0	0.0	0.0
2626.0	57.5°	915.3	216.9	21.1	10.8	9.6	0.0	0.0	0.0	0.0	0.0
2558.7	58°	883.5	207.3	21.9	11.2	10.4	0.0	0.0	0.0	0.0	0.0
2219.4	60°	724.0	169.0	27.9	14.0	14.0	0.0	0.0	0.0	0.0	0.0
1819.5	62.5°	499.9	147.5	31.9	17.9	14.4	0.0	0.0	0.0	0.0	0.0
1341.5	65°	353.6	133.2	34.7	19.1	11.6	0.0	0.0	0.0	0.0	0.0
953.2	67.5°	264.3	122.8	38.3	19.5	6.0	0.0	0.0	0.0	0.0	0.0
598.0	70°	202.5	115.2	47.0	20.7	1.6	0.0	0.0	0.0	0.0	0.0
356.4	72.5°	165.0	106.4	57.0	21.5	0.0	0.0	0.0	0.0	0.0	0.0
213.7	75°	136.7	96.1	55.0	23.5	0.0	0.0	0.0	0.0	0.0	0.0
114.0	77.5°	90.9	74.6	50.2	23.5	0.0	0.0	0.0	0.0	0.0	0.0
40.7	80°	31.9	29.5	39.1	20.7	0.0	0.0	0.0	0.0	0.0	0.0
8.4	82.5°	4.8	4.0	5.6	7.2	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°
23.1	0°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
16.3	2.5°	16.3	16.3	15.9	16.3	16.3	17.1	19.1	21.9	25.1	26.3
14.0	5°	13.6	13.2	12.8	12.8	12.8	14.0	15.5	18.7	22.3	23.9
11.6	7.5°	11.2	10.8	10.4	10.0	10.0	10.8	12.8	16.3	19.9	21.5
9.6	10°	9.2	8.4	8.0	7.6	7.6	8.4	10.4	14.0	17.9	19.5
8.0	12.5°	7.6	6.4	5.6	5.2	4.8	6.0	8.0	11.2	15.5	17.5
6.0	15°	5.2	4.0	2.8	2.4	2.0	3.2	5.2	8.8	13.2	15.5
3.2	17.5°	2.8	1.2	0.4	0.0	0.0	0.8	2.4	6.4	10.8	12.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.0	10.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.8	6.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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	1.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2
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°
23.1	0°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
27.5	2.5°	28.3	27.9	27.1	26.3	26.3	26.3	27.5	28.7	29.9	29.9
24.7	5°	26.3	26.3	25.9	25.1	25.1	25.5	27.1	29.1	30.7	31.1
22.7	7.5°	24.3	25.1	24.3	23.9	24.3	24.7	26.3	28.7	31.1	31.9
21.1	10°	23.1	23.5	23.5	23.1	23.1	23.9	25.5	28.7	31.9	33.1
19.1	12.5°	21.5	22.3	21.9	21.9	21.9	22.7	24.7	28.3	32.7	34.3
17.1	15°	19.9	21.1	21.1	20.7	20.7	21.1	23.9	27.9	33.9	36.7
14.8	17.5°	18.3	19.5	19.9	19.1	19.1	19.9	22.7	27.9	34.7	39.5
12.0	20°	15.1	17.1	18.3	17.1	17.1	17.9	20.7	26.3	35.1	42.3
8.8	22.5°	12.0	14.0	15.5	15.1	15.1	15.5	19.1	25.1	35.5	47.0
5.2	25°	8.8	10.8	12.0	12.8	12.8	14.0	17.5	24.3	37.1	57.0
2.4	27.5°	5.2	7.6	9.2	10.0	10.4	12.0	16.3	23.5	39.9	71.4
0.0	30°	2.4	4.4	6.4	8.0	8.0	10.8	15.1	22.7	43.5	92.1
0.0	32.5°	0.0	2.0	3.2	5.6	6.0	8.8	14.0	21.9	48.6	112.0
0.0	35°	0.0	0.0	1.6	4.4	4.4	7.2	12.8	21.1	56.6	127.2
0.0	37.5°	0.0	0.0	0.0	3.2	3.6	6.4	12.4	20.7	58.2	128.4
0.0	40°	0.0	0.0	0.0	2.4	2.8	6.0	12.4	21.1	52.6	125.6
0.0	42.5°	0.0	0.0	0.0	1.6	2.0	6.0	12.4	21.9	47.4	128.8
0.0	45°	0.0	0.0	0.0	1.2	1.6	6.4	12.0	21.5	44.7	145.5
0.0	47.5°	0.0	0.0	0.0	1.6	2.4	6.4	11.6	21.1	45.0	200.9
0.0	50°	0.0	0.0	0.0	2.0	2.8	6.4	12.0	20.3	49.4	309.0
0.0	52.5°	0.0	0.0	0.0	1.6	2.4	7.2	13.2	19.9	53.8	401.9
0.0	55°	0.0	0.0	0.0	0.4	1.2	9.2	14.4	19.9	60.6	425.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	10.4	16.3	21.1	71.8	415.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	10.4	16.7	21.1	72.6	407.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	10.4	18.3	23.5	78.1	363.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	8.8	21.9	29.5	81.3	285.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	7.2	25.9	32.3	83.7	227.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.8	26.7	32.7	84.9	181.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	7.2	26.3	35.1	88.9	147.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	8.0	23.9	38.7	88.9	130.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	8.4	22.3	43.5	80.9	112.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	8.0	21.9	50.6	72.2	92.9
0.0	80°	0.8	1.2	1.2	0.8	0.8	6.8	21.5	51.4	61.4	63.8
0.4	82.5°	2.4	3.2	2.8	2.0	2.0	6.0	19.1	43.1	31.9	27.5
2.4	85°	4.4	5.2	5.2	4.4	4.4	5.6	12.0	15.5	10.8	8.8
4.4	87.5°	6.0	6.8	6.8	6.0	6.0	5.6	5.2	4.8	4.4	4.4
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

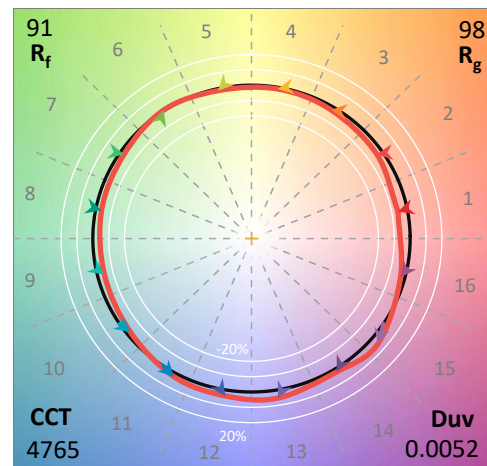
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

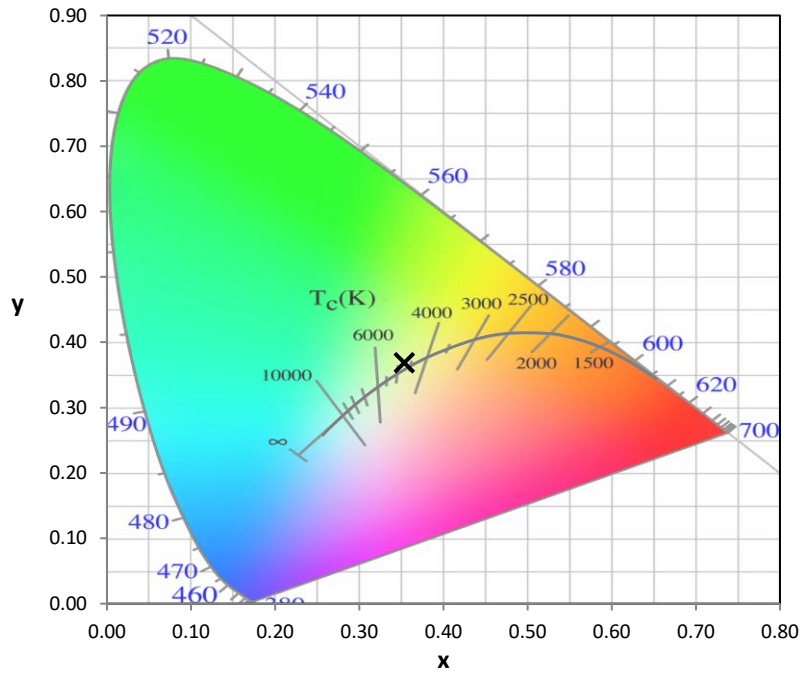
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

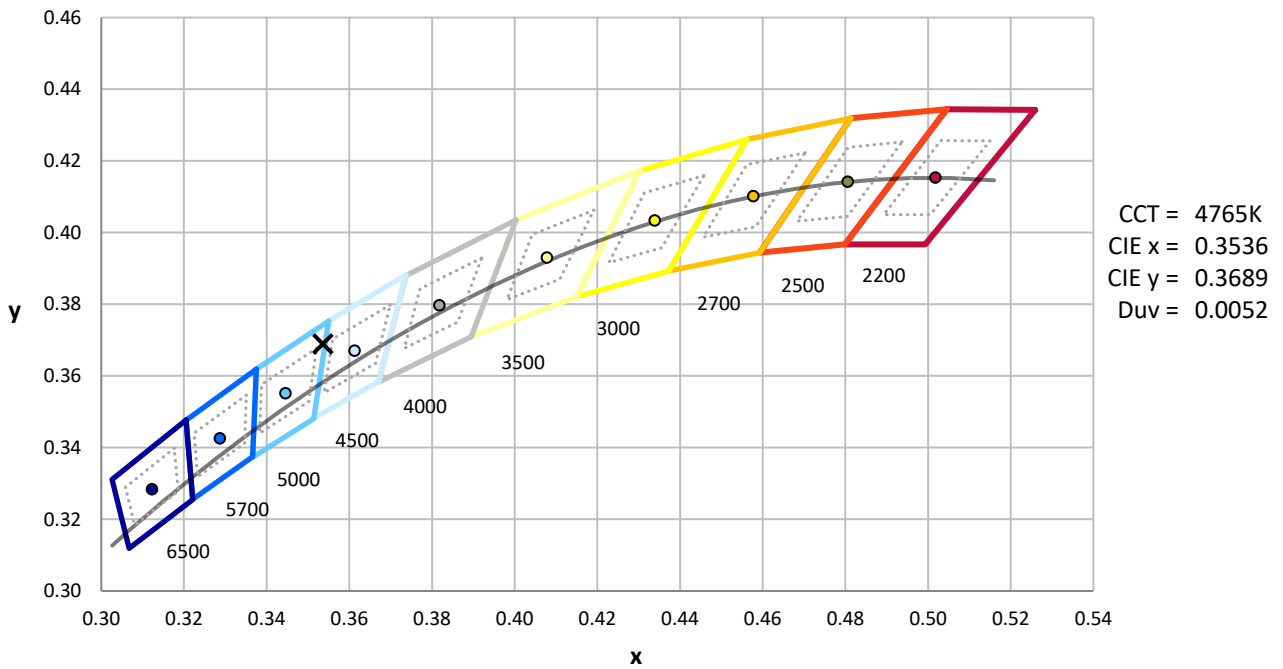
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



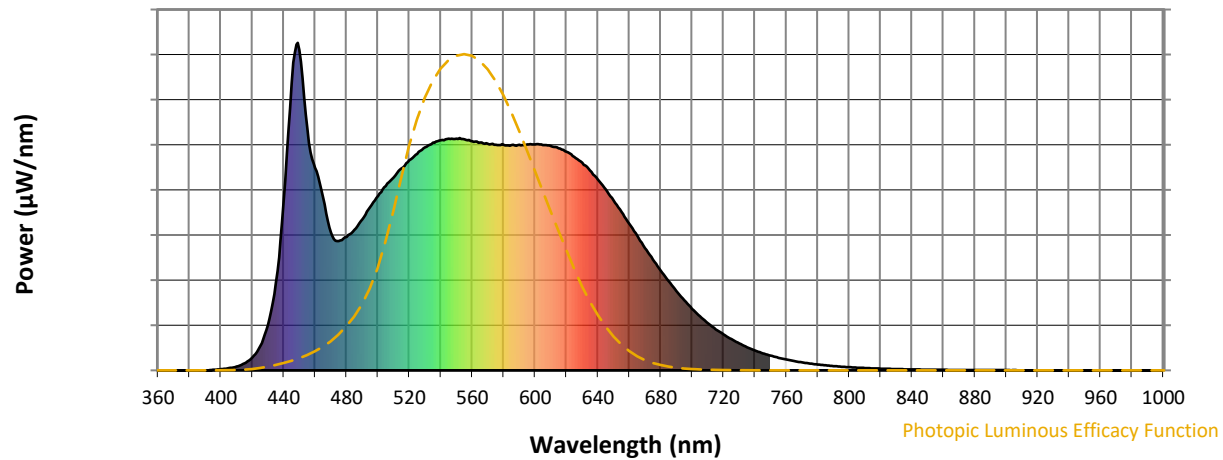
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

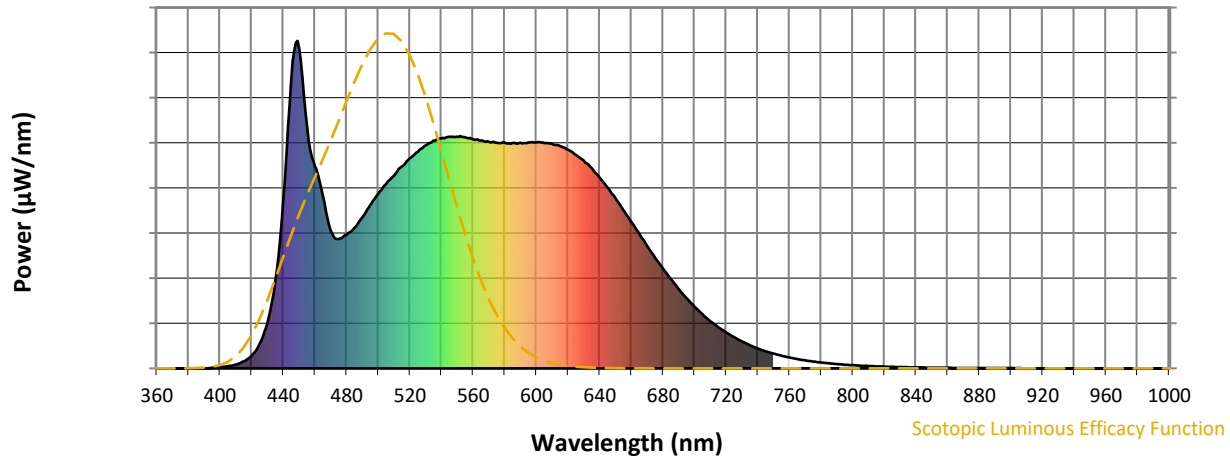


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



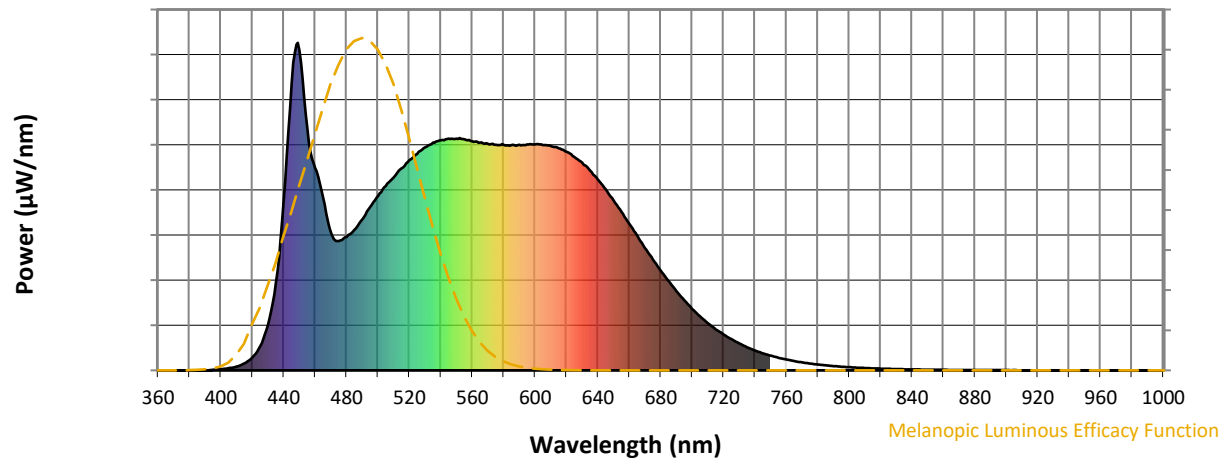
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

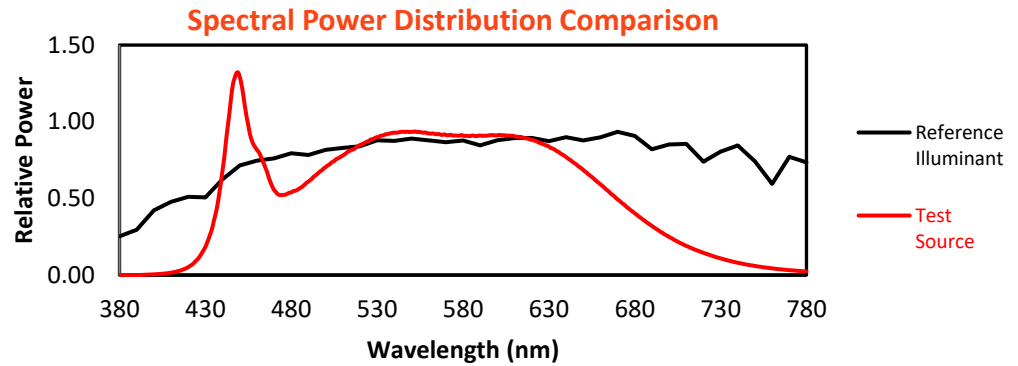
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

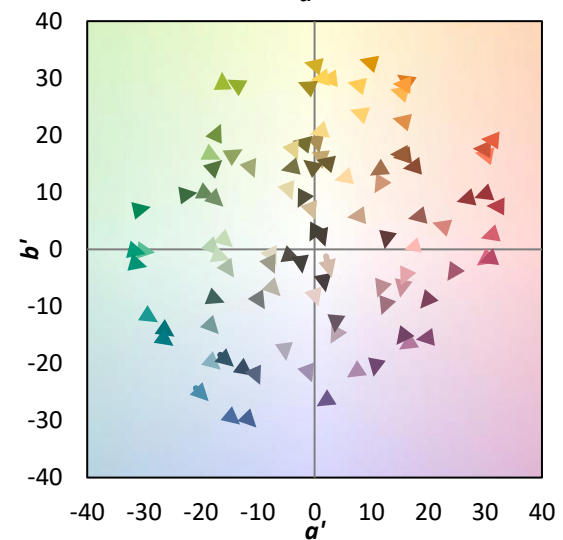
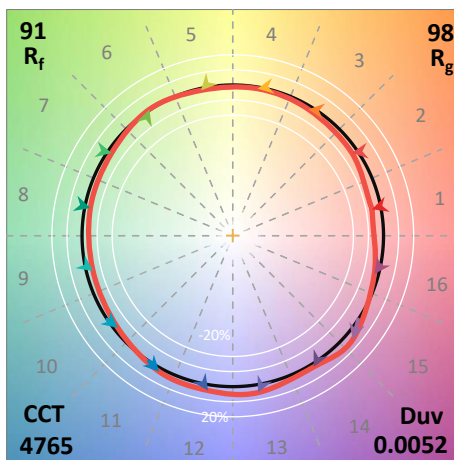
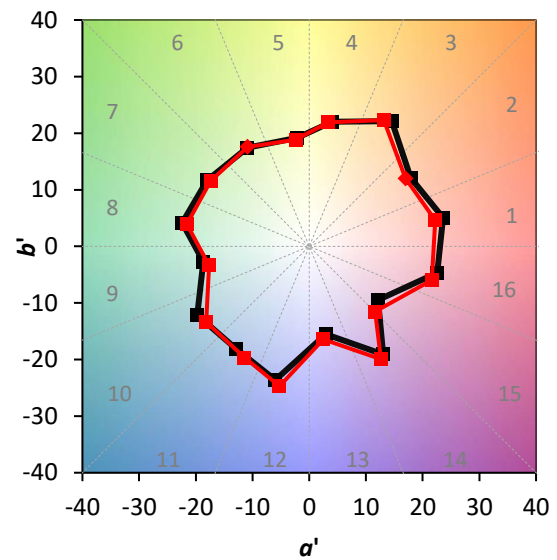
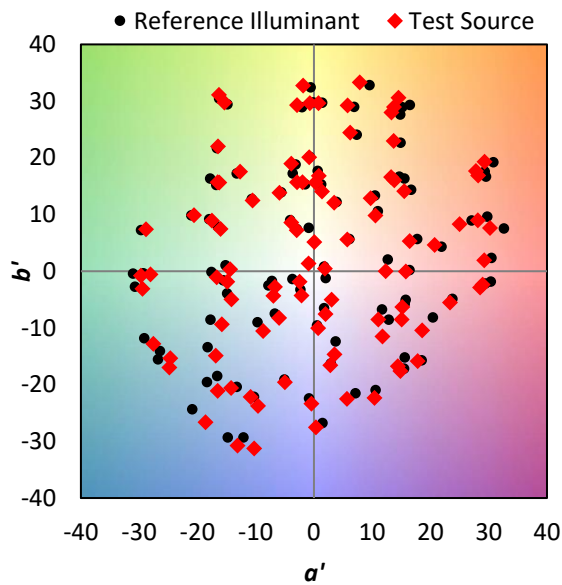
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

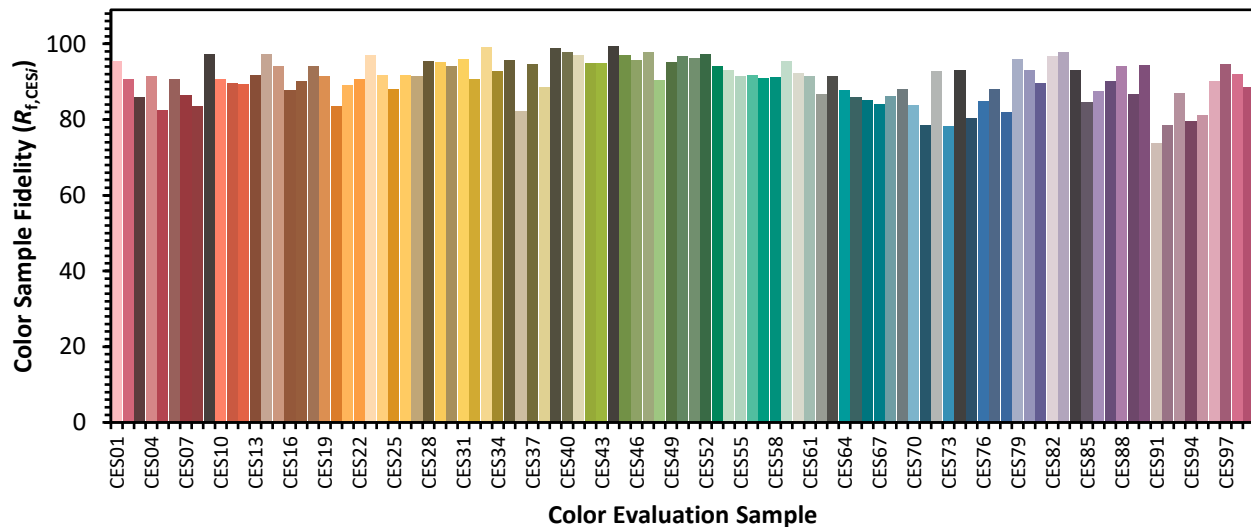


Color Vector Graphics

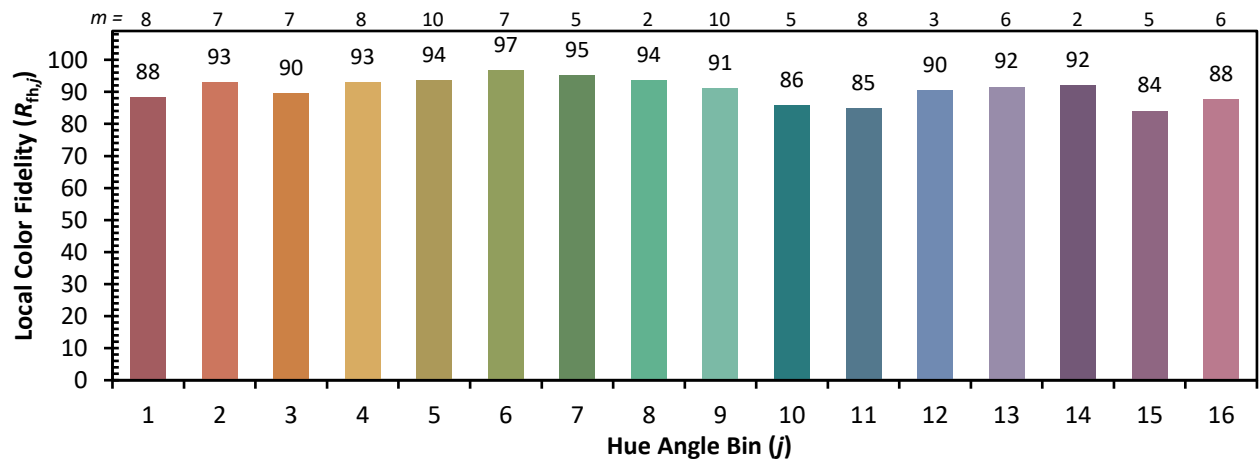
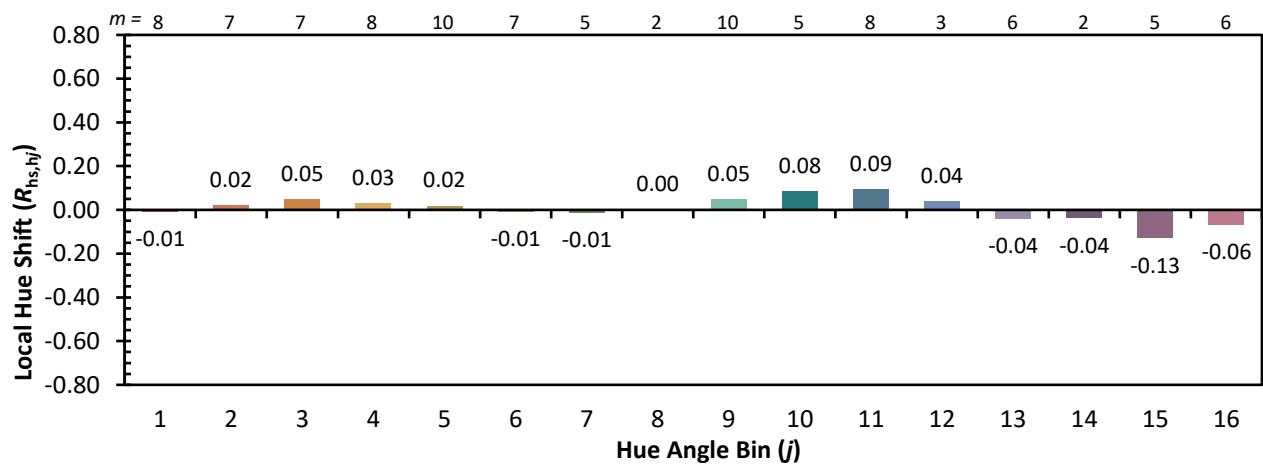
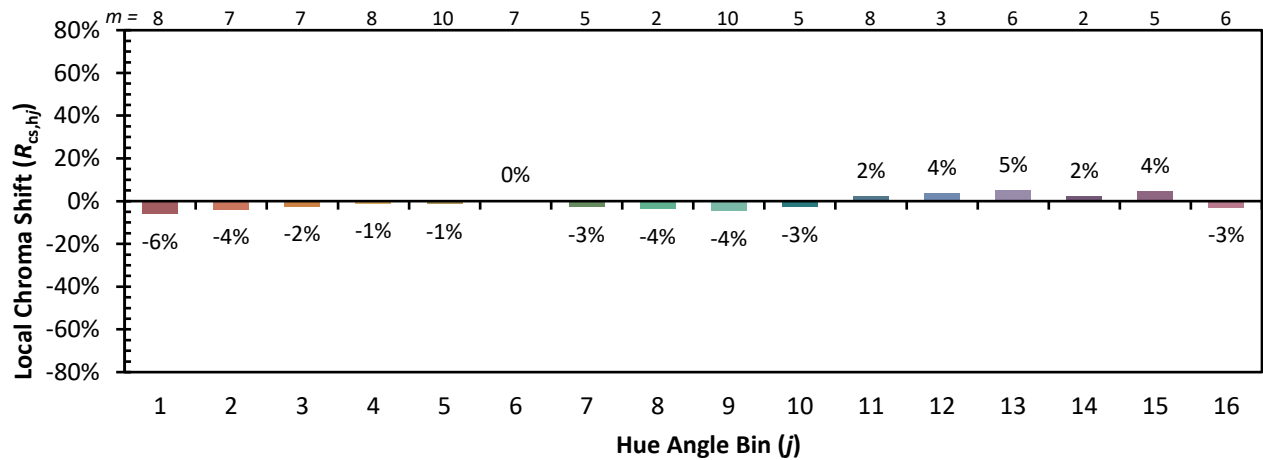


Individual Sample Fidelity Index ($R_{f,i}$)

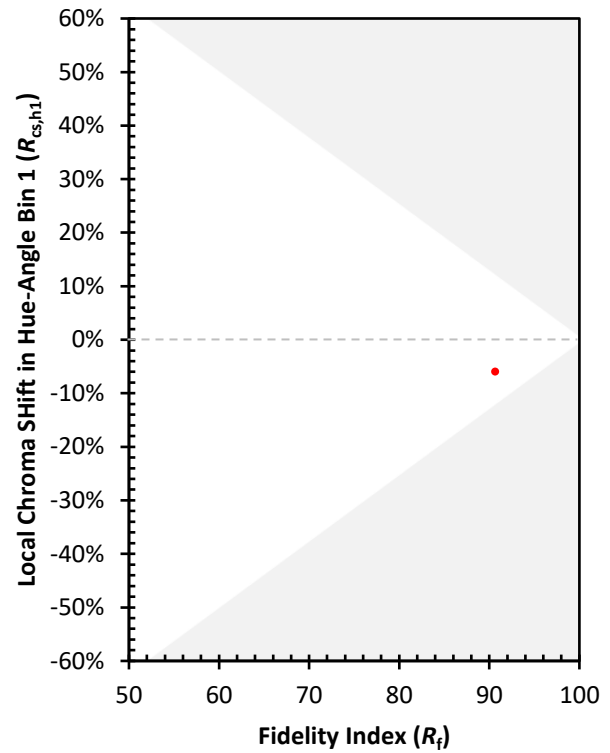
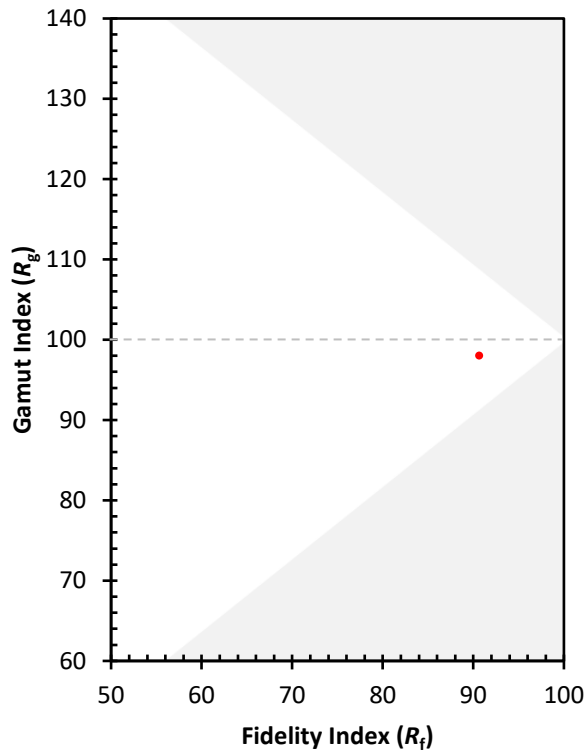
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)