

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: P1049901

Luminaire Tested: **GALN-SA3A-927-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049901
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

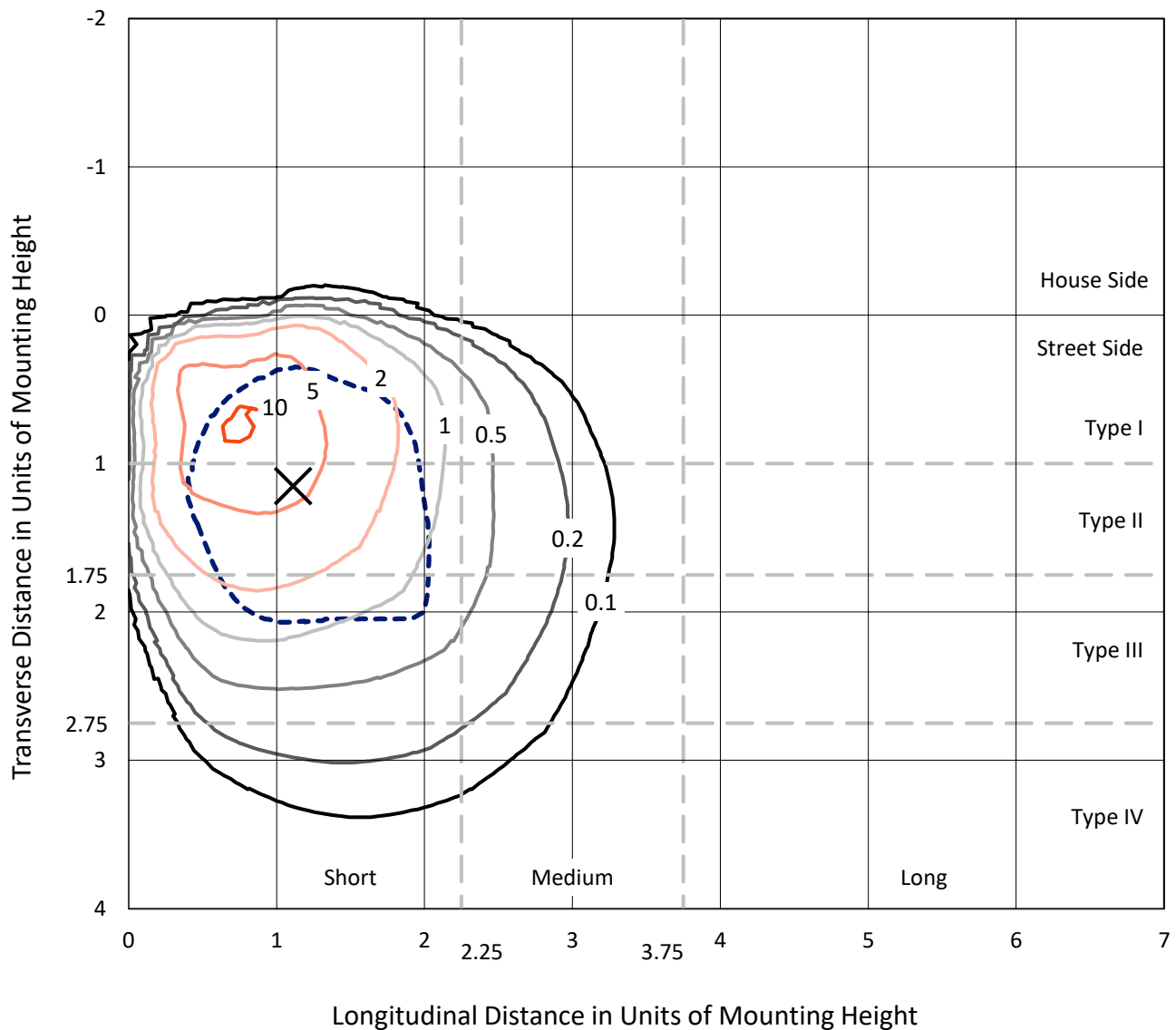
Lumens per Lamp: N/A
Luminaire Lumens: 6256.2 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 81.4
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

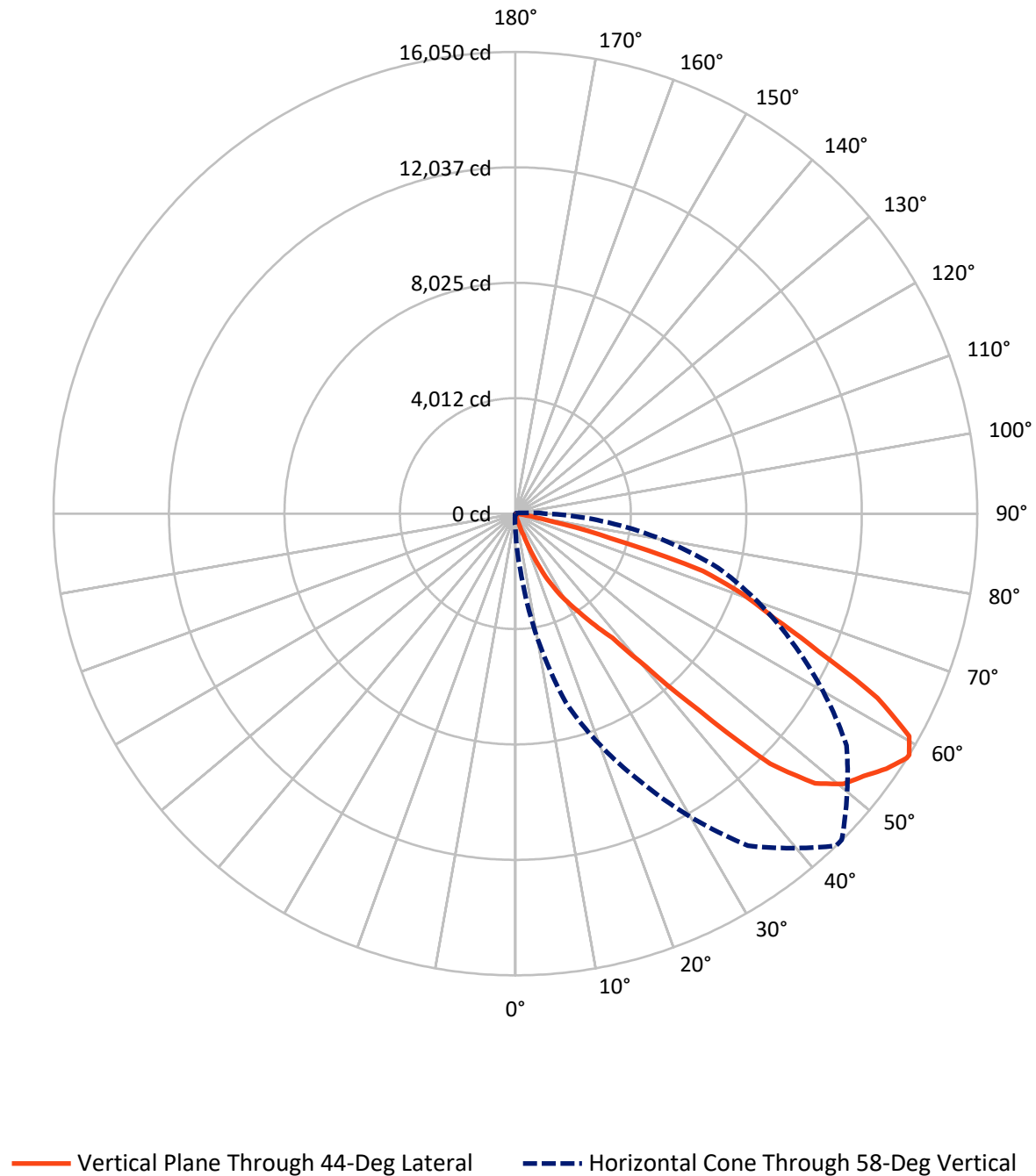
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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	42.7	0.0	42.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6213.5	0.0	6213.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	6256.2	0.0	6256.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.0
10°-20°	13.7	0.2
20°-30°	148.2	2.4
30°-40°	438.3	7.0
40°-50°	1306.4	20.9
50°-60°	2072.9	33.1
60°-70°	1729.1	27.6
70°-80°	533.3	8.5
80°-90°	11.8	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°	6256.2	100.0
0°-180°	6256.2	100.0

Coefficient of Utilization



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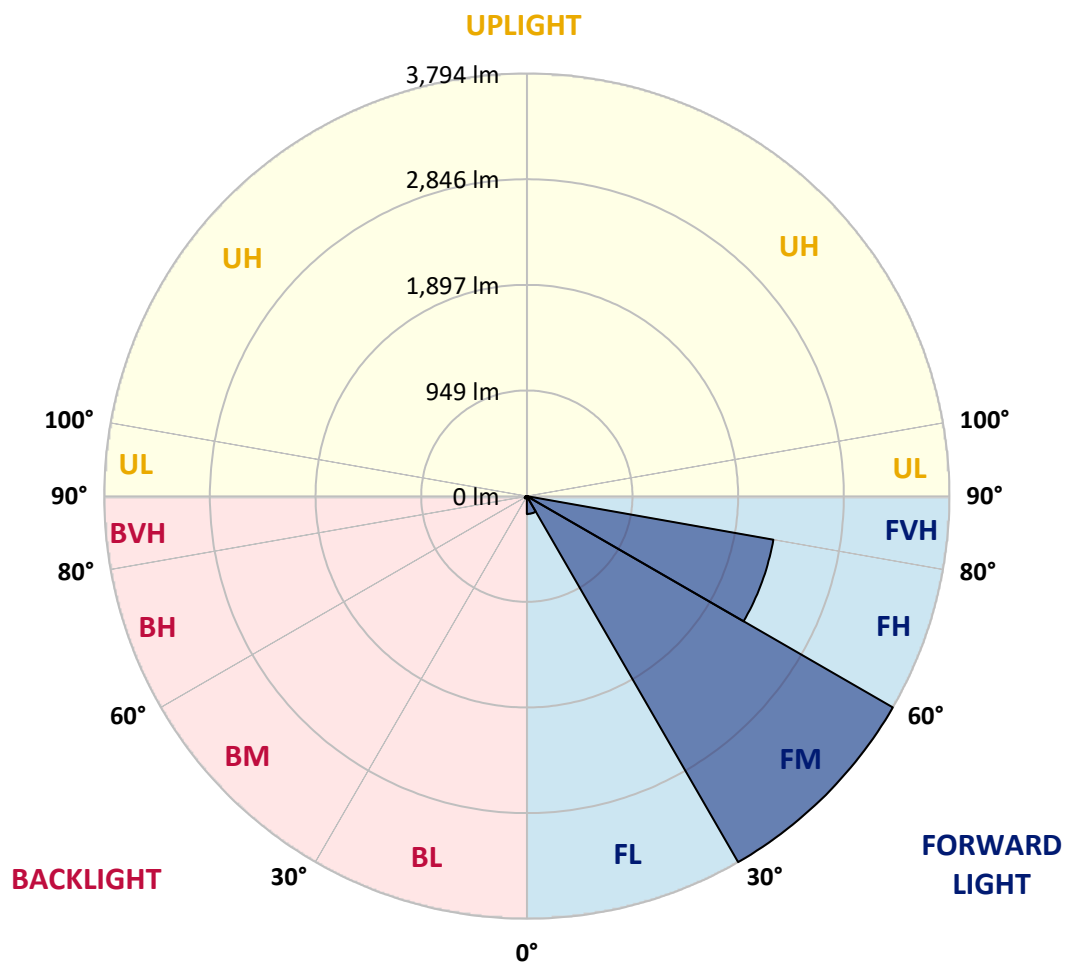
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.2	2.6			
FM	(30°-60°)	3794.2	60.6			
FH	(60°-80°)	2247.8	35.9			G2/5000
FVH	(80°-90°)	11.3	0.2			G1/100
BL	(0°-30°)	4.2	0.1	B0/110		
BM	(30°-60°)	23.4	0.4	B0/220		
BH	(60°-80°)	14.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
2.5°	35.4	35.4	34.0	32.1	30.2	28.4	27.9	26.9	26.5	26.0
5°	36.9	36.9	36.4	35.0	33.1	31.7	31.7	30.2	29.3	28.4
7.5°	37.8	38.3	39.2	38.8	37.8	36.4	36.4	35.4	34.0	31.7
10°	39.2	40.6	42.5	43.5	44.0	44.0	43.5	43.0	40.6	37.3
12.5°	40.6	43.5	48.2	52.9	55.8	59.5	59.1	58.1	52.0	44.9
15°	43.5	47.7	57.7	71.4	92.6	105.9	111.1	106.3	86.0	60.5
17.5°	46.8	53.9	83.7	149.3	244.8	290.2	317.6	295.4	195.7	114.8
20°	50.1	65.7	155.5	387.1	635.2	783.6	824.7	760.4	488.2	218.8
22.5°	55.8	92.2	315.2	800.1	1368.7	1591.2	1633.3	1427.7	922.0	432.0
25°	67.6	133.7	543.5	1303.9	2042.6	2418.3	2400.8	2131.4	1495.8	690.0
27.5°	84.6	194.7	821.9	1852.6	2688.2	3019.5	3059.2	2726.0	1993.9	1014.7
30°	109.2	269.9	1120.5	2292.1	3205.7	3563.9	3570.5	3226.0	2439.6	1299.7
32.5°	132.8	340.7	1381.9	2717.0	3715.6	4108.3	4137.6	3713.7	2772.3	1596.4
35°	150.8	387.1	1646.5	3090.3	4229.8	4770.9	4769.0	4265.7	3166.4	1861.6
37.5°	152.2	433.4	1886.2	3472.2	4881.0	5486.9	5546.9	4992.1	3642.8	2189.6
40°	148.9	485.4	2189.6	4067.7	6054.5	6984.1	7037.0	6337.6	4598.4	2751.0
42.5°	152.7	575.6	2682.0	5167.4	8003.0	9338.1	9440.2	8704.9	6355.1	3896.6
45°	172.5	745.3	3713.7	7007.3	10780.5	12408.2	12374.1	11315.0	8399.1	5640.5
47.5°	238.2	1160.7	5243.0	8798.0	12555.6	14005.1	14034.4	12739.9	9591.9	6981.3
50°	366.3	1776.0	6528.0	9744.6	13318.9	14773.1	14745.6	13249.9	10045.1	7641.5
52.5°	476.4	2221.2	7172.7	10076.8	13416.7	15152.6	15150.7	13384.1	10115.6	7698.2
55°	503.8	2254.8	7177.9	10094.8	13636.0	15649.3	15711.6	13714.4	10206.8	7450.6
57.5°	492.9	1996.3	6878.2	10198.7	14026.3	16033.5	16036.8	14034.4	10438.4	7298.9
58°	483.5	1955.6	6817.8	10257.8	14093.5	16049.6	16041.5	14049.0	10626.9	7293.2
60°	430.5	1698.1	6581.9	10408.6	13993.7	15719.7	15644.5	13729.1	10599.0	7235.1
62.5°	338.4	1324.7	6349.9	10234.2	12924.7	14122.8	14153.9	12154.8	9662.3	6896.2
65°	269.4	987.3	5865.9	8977.1	10643.0	11597.6	11713.9	9884.0	8064.9	5839.5
67.5°	214.6	713.6	4920.7	7147.2	8421.8	9679.4	9764.0	8298.4	6248.3	4474.1
70°	174.4	482.5	3396.6	5227.0	6946.3	8360.3	8365.5	6893.8	4663.6	2931.5
72.5°	154.5	334.1	1971.7	3812.0	5632.5	6812.6	6675.0	5594.2	3584.2	1736.3
75°	133.7	221.7	966.9	2330.4	3415.0	3438.2	3490.6	2595.1	1791.6	825.6
77.5°	110.1	157.4	380.9	636.6	1024.1	1311.0	1359.7	1030.3	596.0	203.2
80°	75.6	74.7	102.6	195.2	293.0	367.2	342.6	265.1	156.0	78.0
82.5°	32.6	35.4	46.3	55.8	45.4	44.0	42.1	26.9	20.8	16.1
85°	10.4	9.5	9.9	9.9	8.0	6.1	6.1	2.8	0.0	0.0
87.5°	5.2	4.3	4.3	3.8	2.4	0.9	0.5	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°
27.4	0°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
25.5	2.5°	25.0	25.0	24.1	23.2	22.7	21.7	21.3	20.8	20.3	19.8
27.4	5°	26.5	26.0	24.6	23.2	21.7	20.3	19.4	18.4	17.5	17.0
30.2	7.5°	28.8	27.9	25.0	22.7	20.8	18.9	18.0	16.5	15.6	14.2
33.6	10°	31.7	29.8	26.0	23.2	20.3	18.0	16.5	15.1	13.7	11.8
38.3	12.5°	35.4	32.1	27.4	22.7	19.4	16.5	15.1	13.2	11.8	10.4
44.4	15°	38.8	34.5	27.9	22.7	18.4	15.1	13.2	11.3	9.9	8.0
55.8	17.5°	43.5	36.4	27.4	21.3	17.0	13.2	11.3	9.9	7.6	4.7
82.7	20°	51.5	37.8	26.5	19.8	14.7	10.9	8.5	6.6	3.3	0.9
124.3	22.5°	64.3	41.6	25.5	18.0	12.8	8.5	5.7	2.4	0.0	0.0
189.0	25°	88.8	48.2	25.5	17.0	11.3	6.1	1.9	0.0	0.0	0.0
268.4	27.5°	118.2	57.2	25.5	14.7	9.0	3.3	0.0	0.0	0.0	0.0
365.8	30°	147.9	67.1	25.5	12.8	7.1	0.5	0.0	0.0	0.0	0.0
450.4	32.5°	176.3	75.6	26.0	10.9	4.7	0.0	0.0	0.0	0.0	0.0
567.6	35°	205.1	77.0	25.5	9.5	2.8	0.0	0.0	0.0	0.0	0.0
711.3	37.5°	242.0	74.2	24.1	8.5	1.4	0.0	0.0	0.0	0.0	0.0
935.8	40°	297.7	75.6	22.7	8.0	0.5	0.0	0.0	0.0	0.0	0.0
1336.0	42.5°	400.8	81.8	20.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0
2128.1	45°	692.8	109.6	18.9	8.5	0.0	0.0	0.0	0.0	0.0	0.0
3194.8	47.5°	1146.1	197.1	18.4	8.5	0.0	0.0	0.0	0.0	0.0	0.0
3848.4	50°	1462.7	248.1	19.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0
3930.2	52.5°	1460.3	276.5	20.3	9.5	1.9	0.0	0.0	0.0	0.0	0.0
3622.5	55°	1298.2	281.7	21.7	10.4	6.1	0.0	0.0	0.0	0.0	0.0
3113.0	57.5°	1085.1	257.1	25.0	12.8	11.3	0.0	0.0	0.0	0.0	0.0
3033.2	58°	1047.3	245.8	26.0	13.2	12.3	0.0	0.0	0.0	0.0	0.0
2631.0	60°	858.2	200.4	33.1	16.5	16.5	0.0	0.0	0.0	0.0	0.0
2157.0	62.5°	592.6	174.9	37.8	21.3	17.0	0.0	0.0	0.0	0.0	0.0
1590.3	65°	419.2	157.8	41.1	22.7	13.7	0.0	0.0	0.0	0.0	0.0
1130.0	67.5°	313.3	145.6	45.4	23.2	7.1	0.0	0.0	0.0	0.0	0.0
708.9	70°	240.1	136.6	55.8	24.6	1.9	0.0	0.0	0.0	0.0	0.0
422.5	72.5°	195.7	126.2	67.6	25.5	0.0	0.0	0.0	0.0	0.0	0.0
253.3	75°	162.1	113.9	65.2	27.9	0.0	0.0	0.0	0.0	0.0	0.0
135.2	77.5°	107.8	88.4	59.5	27.9	0.0	0.0	0.0	0.0	0.0	0.0
48.2	80°	37.8	35.0	46.3	24.6	0.0	0.0	0.0	0.0	0.0	0.0
9.9	82.5°	5.7	4.7	6.6	8.5	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°
27.4	0°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
19.4	2.5°	19.4	19.4	18.9	19.4	19.4	20.3	22.7	26.0	29.8	31.2
16.5	5°	16.1	15.6	15.1	15.1	15.1	16.5	18.4	22.2	26.5	28.4
13.7	7.5°	13.2	12.8	12.3	11.8	11.8	12.8	15.1	19.4	23.6	25.5
11.3	10°	10.9	9.9	9.5	9.0	9.0	9.9	12.3	16.5	21.3	23.2
9.5	12.5°	9.0	7.6	6.6	6.1	5.7	7.1	9.5	13.2	18.4	20.8
7.1	15°	6.1	4.7	3.3	2.8	2.4	3.8	6.1	10.4	15.6	18.4
3.8	17.5°	3.3	1.4	0.5	0.0	0.0	0.9	2.8	7.6	12.8	15.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.5	11.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.7	8.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.3
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	1.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
27.4	0°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
32.6	2.5°	33.6	33.1	32.1	31.2	31.2	31.2	32.6	34.0	35.4	35.4
29.3	5°	31.2	31.2	30.7	29.8	29.8	30.2	32.1	34.5	36.4	36.9
26.9	7.5°	28.8	29.8	28.8	28.4	28.8	29.3	31.2	34.0	36.9	37.8
25.0	10°	27.4	27.9	27.9	27.4	27.4	28.4	30.2	34.0	37.8	39.2
22.7	12.5°	25.5	26.5	26.0	26.0	26.0	26.9	29.3	33.6	38.8	40.6
20.3	15°	23.6	25.0	25.0	24.6	24.6	25.0	28.4	33.1	40.2	43.5
17.5	17.5°	21.7	23.2	23.6	22.7	22.7	23.6	26.9	33.1	41.1	46.8
14.2	20°	18.0	20.3	21.7	20.3	20.3	21.3	24.6	31.2	41.6	50.1
10.4	22.5°	14.2	16.5	18.4	18.0	18.0	18.4	22.7	29.8	42.1	55.8
6.1	25°	10.4	12.8	14.2	15.1	15.1	16.5	20.8	28.8	44.0	67.6
2.8	27.5°	6.1	9.0	10.9	11.8	12.3	14.2	19.4	27.9	47.3	84.6
0.0	30°	2.8	5.2	7.6	9.5	9.5	12.8	18.0	26.9	51.5	109.2
0.0	32.5°	0.0	2.4	3.8	6.6	7.1	10.4	16.5	26.0	57.7	132.8
0.0	35°	0.0	0.0	1.9	5.2	5.2	8.5	15.1	25.0	67.1	150.8
0.0	37.5°	0.0	0.0	0.0	3.8	4.3	7.6	14.7	24.6	69.0	152.2
0.0	40°	0.0	0.0	0.0	2.8	3.3	7.1	14.7	25.0	62.4	148.9
0.0	42.5°	0.0	0.0	0.0	1.9	2.4	7.1	14.7	26.0	56.2	152.7
0.0	45°	0.0	0.0	0.0	1.4	1.9	7.6	14.2	25.5	52.9	172.5
0.0	47.5°	0.0	0.0	0.0	1.9	2.8	7.6	13.7	25.0	53.4	238.2
0.0	50°	0.0	0.0	0.0	2.4	3.3	7.6	14.2	24.1	58.6	366.3
0.0	52.5°	0.0	0.0	0.0	1.9	2.8	8.5	15.6	23.6	63.8	476.4
0.0	55°	0.0	0.0	0.0	0.5	1.4	10.9	17.0	23.6	71.8	503.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	12.3	19.4	25.0	85.1	492.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	12.3	19.8	25.0	86.0	483.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	12.3	21.7	27.9	92.6	430.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.4	26.0	35.0	96.4	338.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.5	30.7	38.3	99.2	269.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.0	31.7	38.8	100.7	214.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.5	31.2	41.6	105.4	174.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.5	28.4	45.8	105.4	154.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	9.9	26.5	51.5	95.9	133.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.5	26.0	60.0	85.5	110.1
0.0	80°	0.9	1.4	1.4	0.9	0.9	8.0	25.5	61.0	72.8	75.6
0.5	82.5°	2.8	3.8	3.3	2.4	2.4	7.1	22.7	51.0	37.8	32.6
2.8	85°	5.2	6.1	6.1	5.2	5.2	6.6	14.2	18.4	12.8	10.4
5.2	87.5°	7.1	8.0	8.0	7.1	7.1	6.6	6.1	5.7	5.2	5.2
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

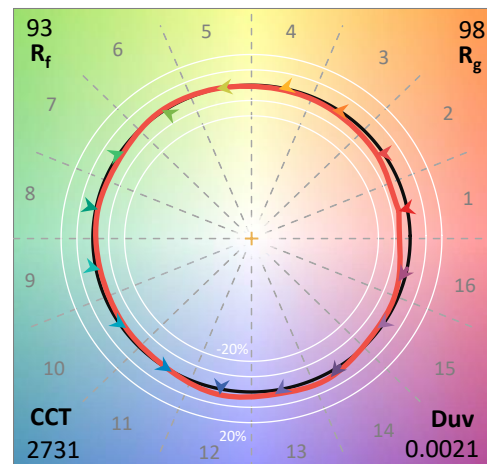
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

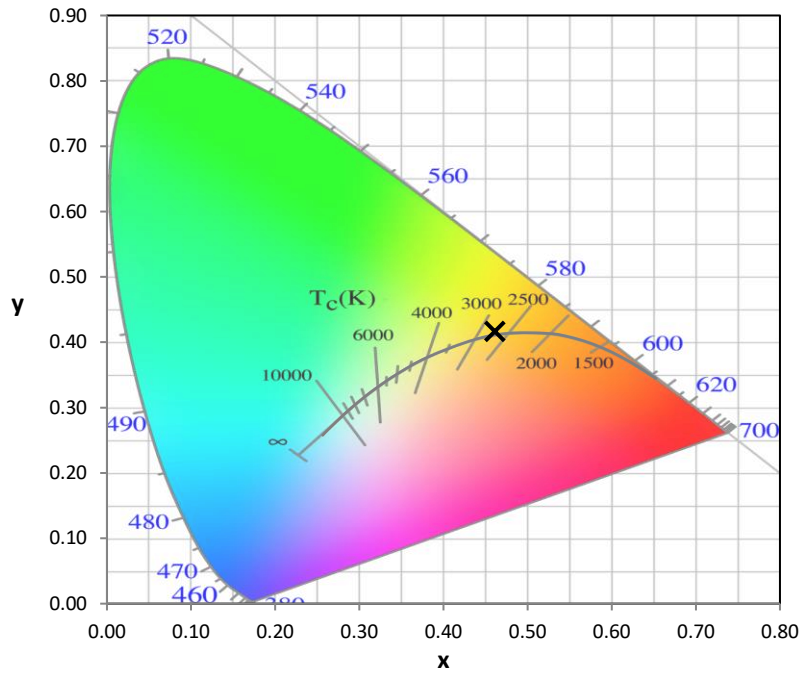
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

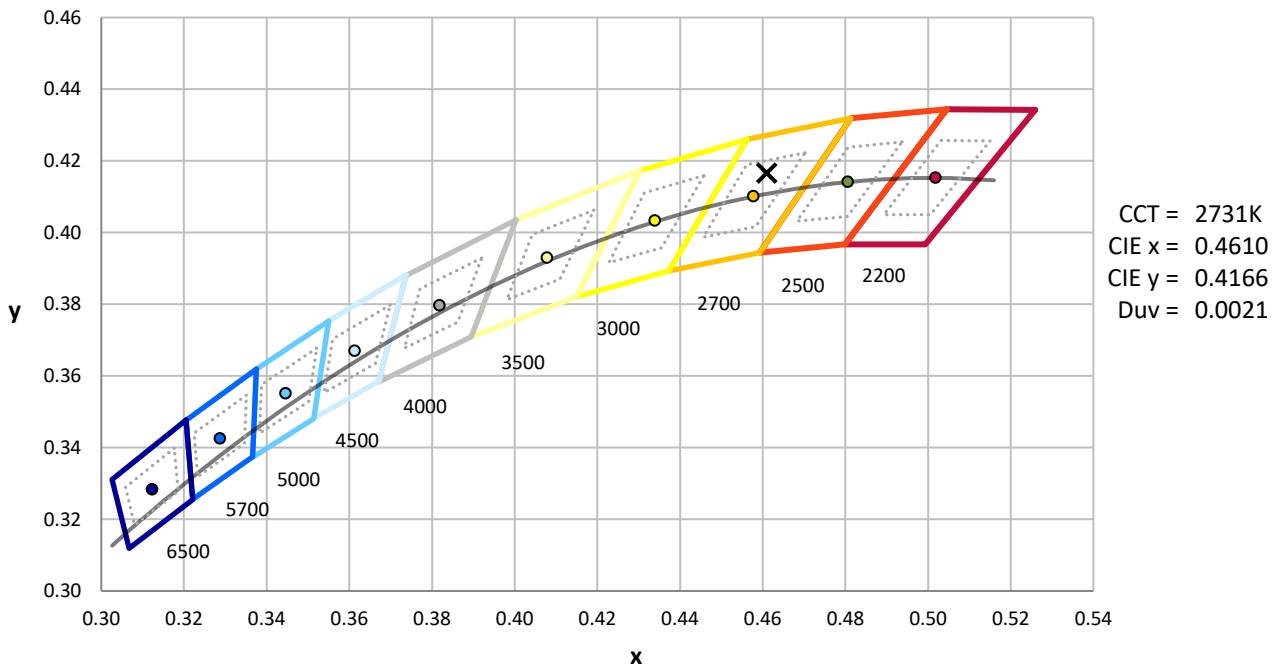
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



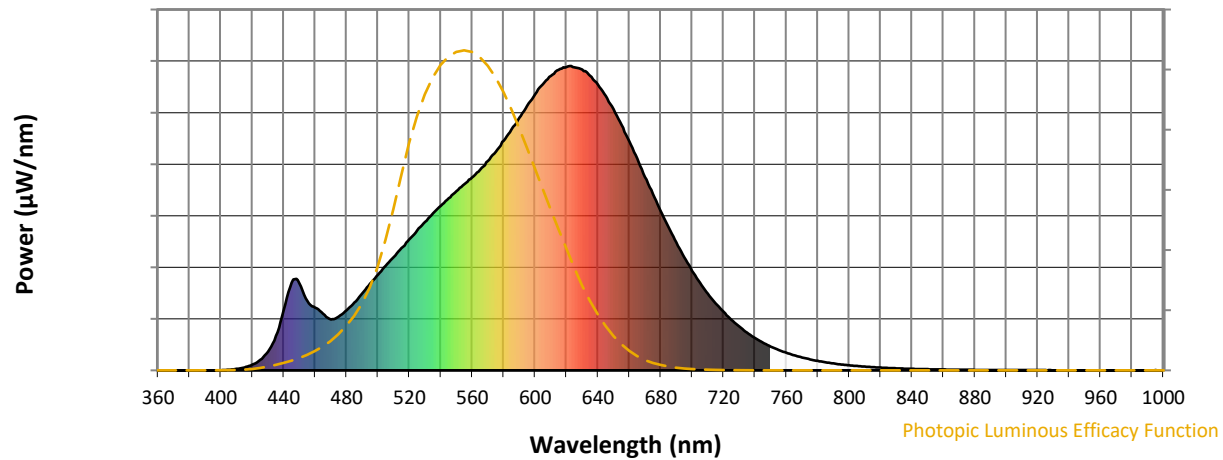
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

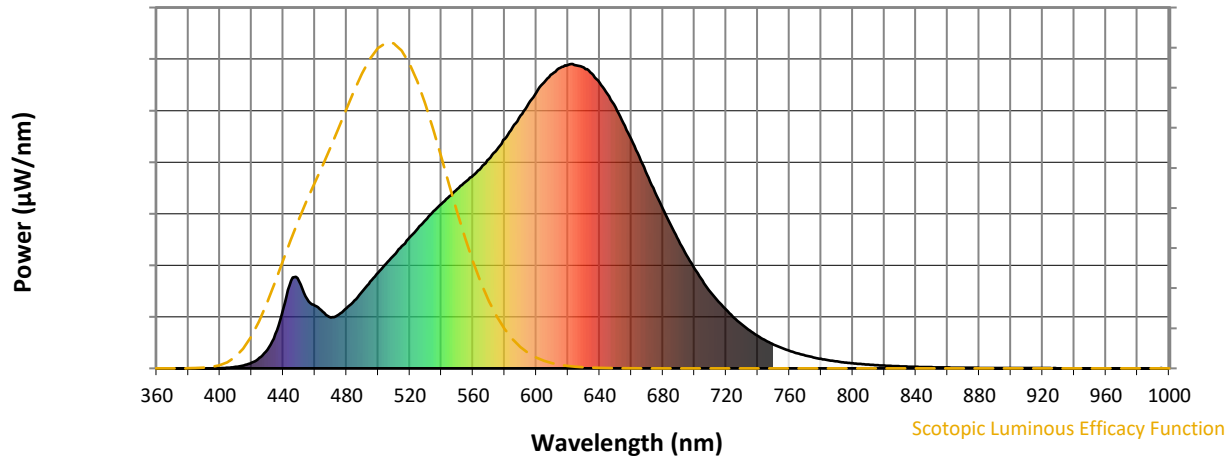


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



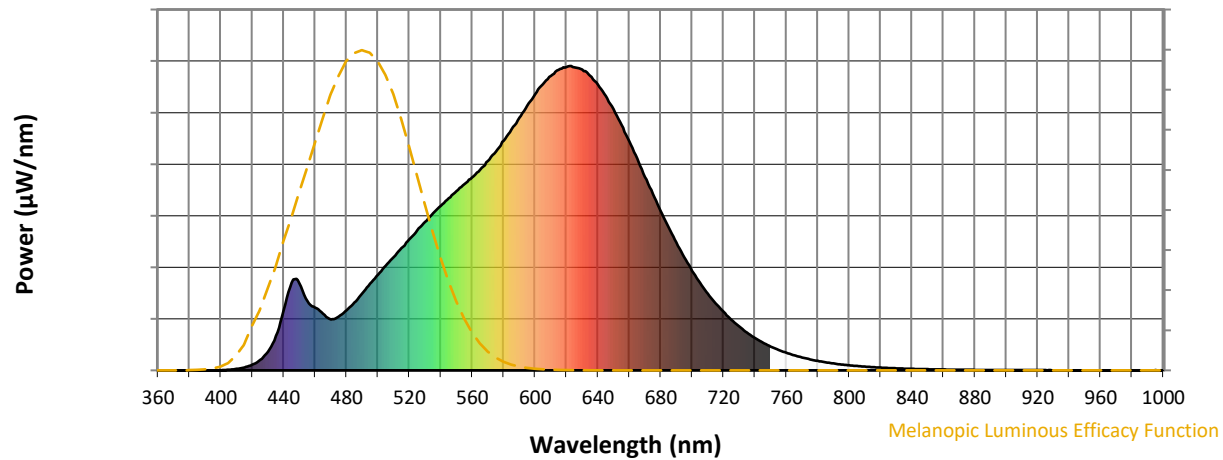
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

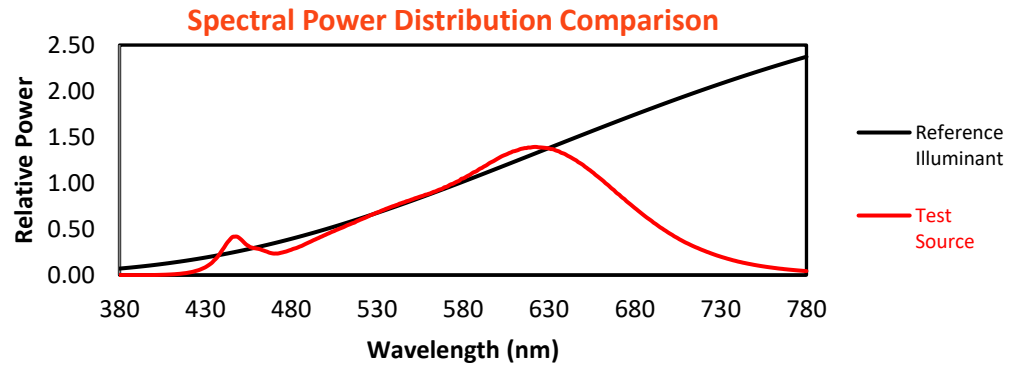
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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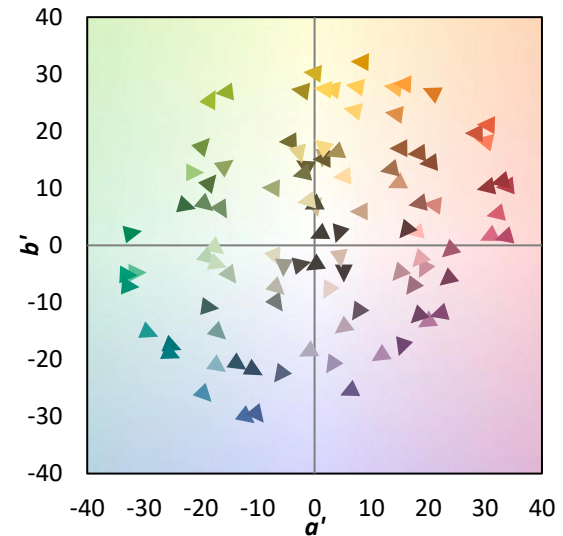
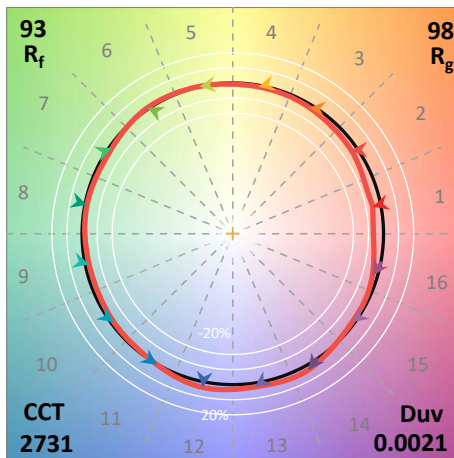
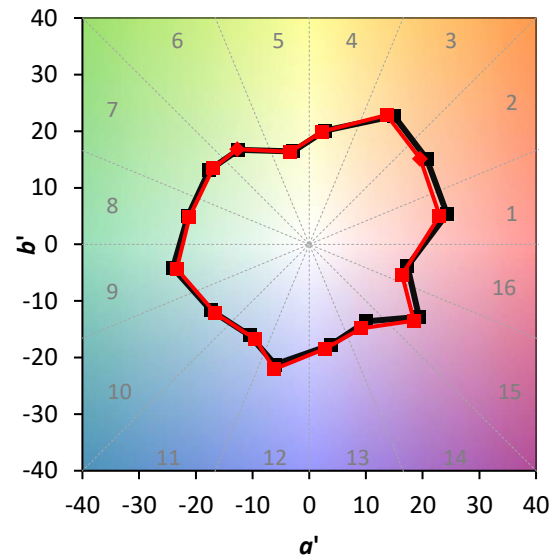
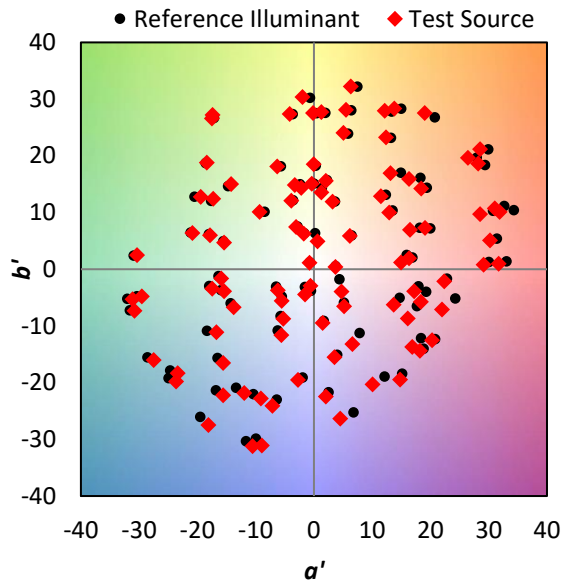
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

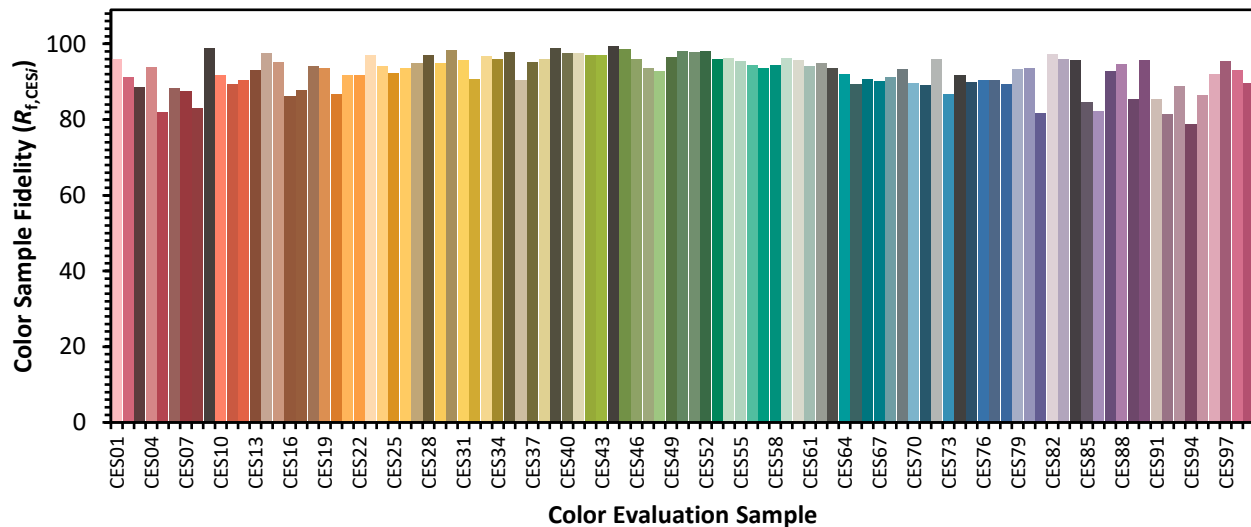


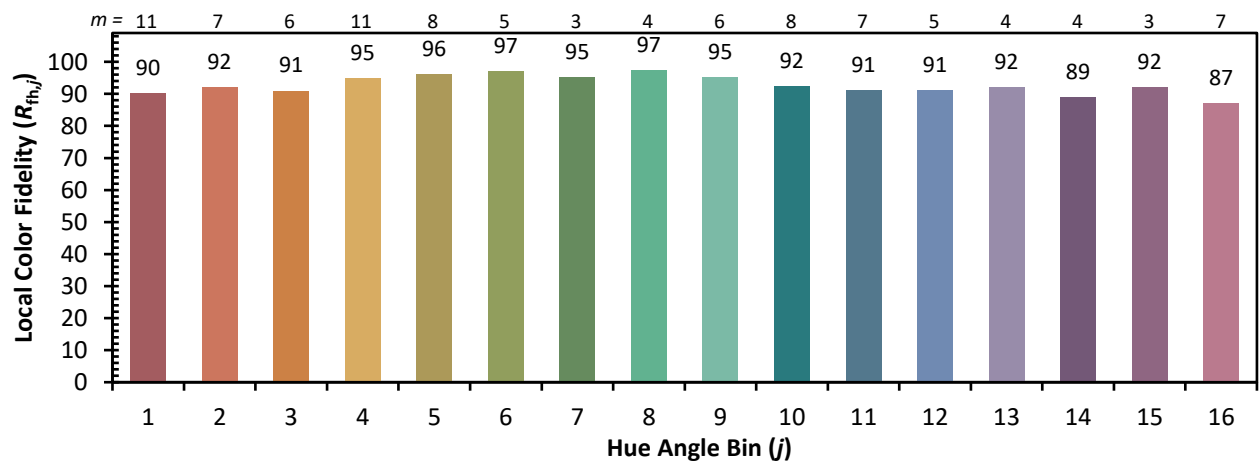
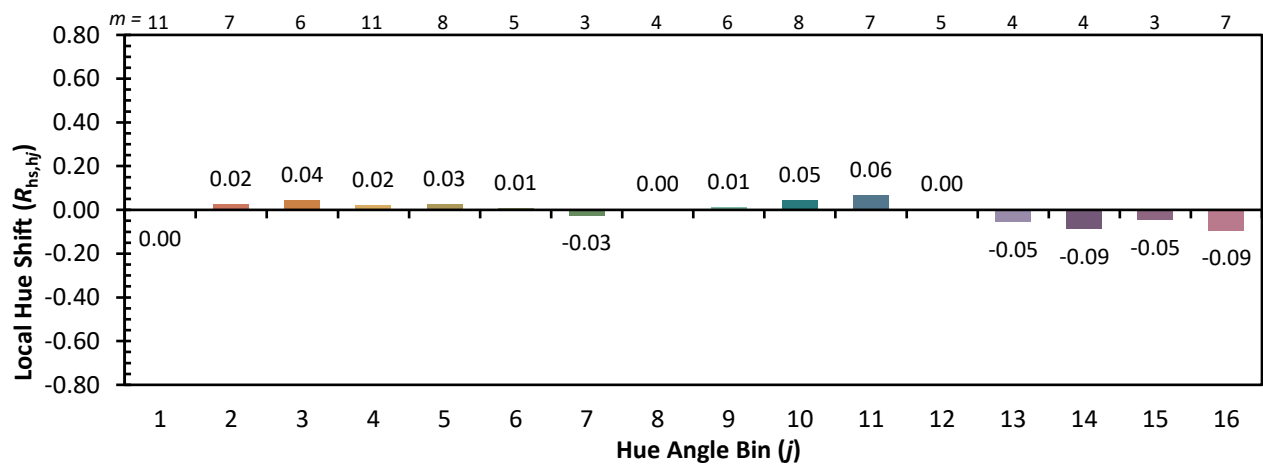
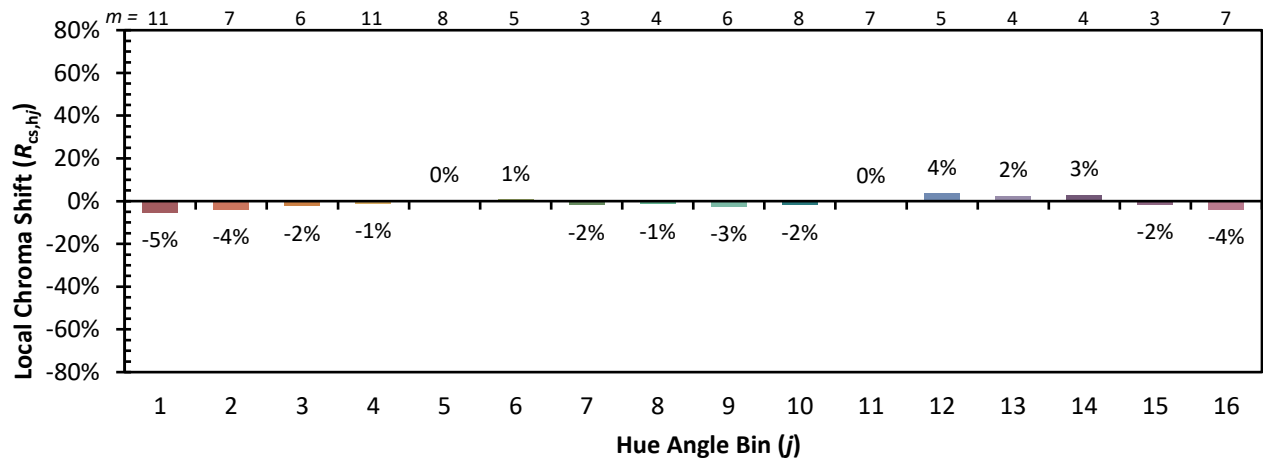
Color Vector Graphics



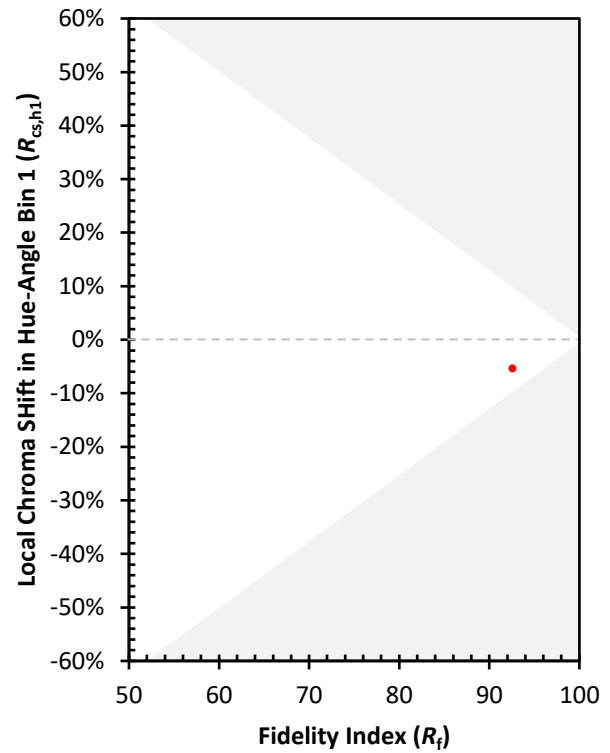
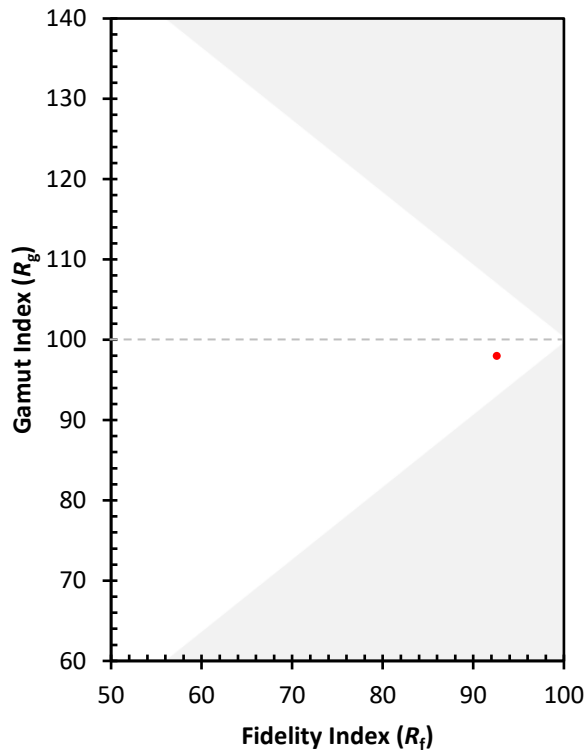
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)