

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: P1049899

Luminaire Tested: **GALN-SA2C-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049899
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6472.6 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

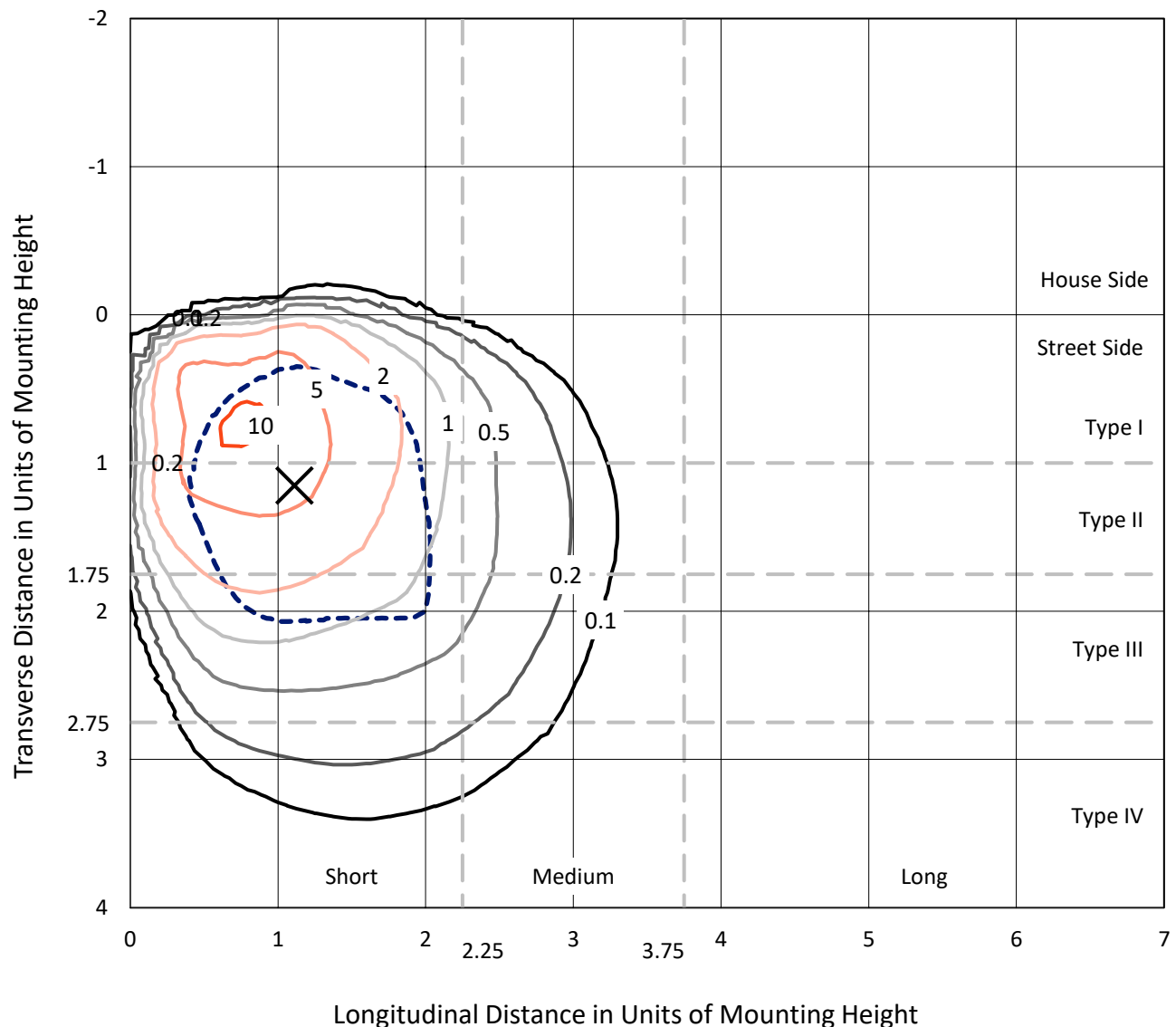
Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

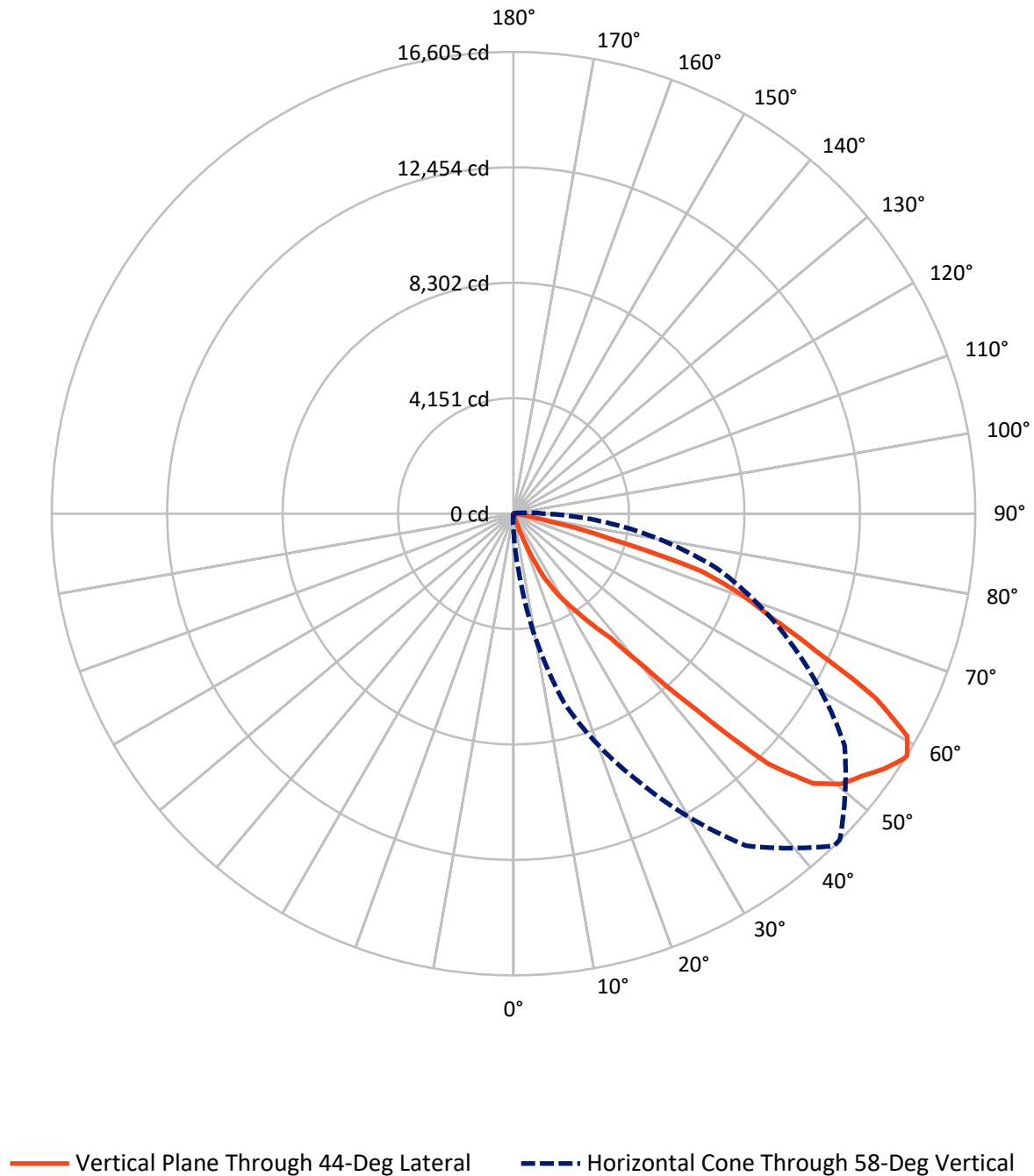
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	44.2	0.0	44.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6428.4	0.0	6428.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	6472.6	0.0	6472.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.0
10°-20°	14.2	0.2
20°-30°	153.3	2.4
30°-40°	453.5	7.0
40°-50°	1351.6	20.9
50°-60°	2144.6	33.1
60°-70°	1788.9	27.6
70°-80°	551.7	8.5
80°-90°	12.3	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°	6472.6	100.0
0°-180°	6472.6	100.0

Coefficient of Utilization



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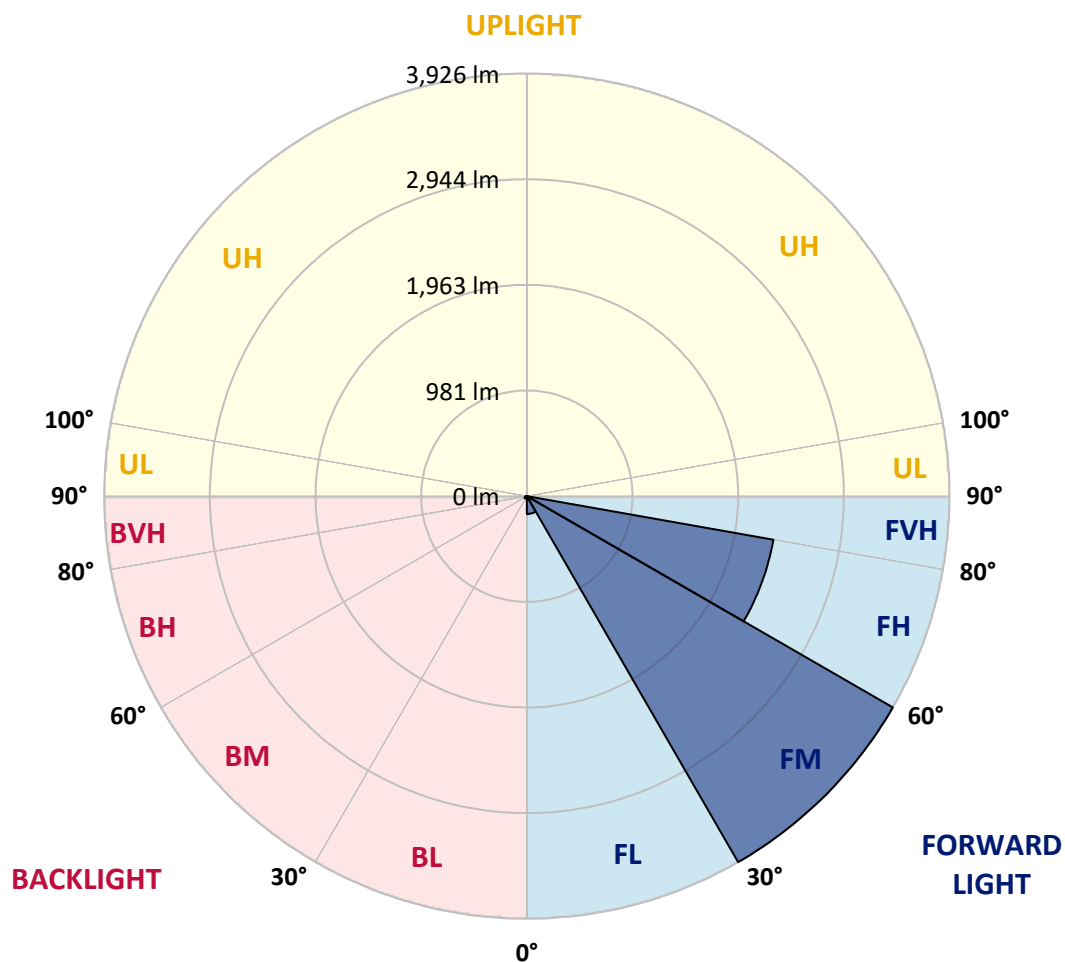
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.7	2.6			
FM	(30°-60°)	3925.5	60.6			
FH	(60°-80°)	2325.5	35.9			G2/5000
FVH	(80°-90°)	11.7	0.2			G1/100
BL	(0°-30°)	4.3	0.1	B0/110		
BM	(30°-60°)	24.2	0.4	B0/220		
BH	(60°-80°)	15.1	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°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	36.7	36.7	35.2	33.2	31.3	29.3	28.8	27.9	27.4	26.9
5°	38.1	38.1	37.6	36.2	34.2	32.8	32.8	31.3	30.3	29.3
7.5°	39.1	39.6	40.6	40.1	39.1	37.6	37.6	36.7	35.2	32.8
10°	40.6	42.0	44.0	45.0	45.5	45.5	45.0	44.5	42.0	38.6
12.5°	42.0	45.0	49.9	54.8	57.7	61.6	61.1	60.1	53.8	46.5
15°	45.0	49.4	59.7	73.8	95.8	109.5	114.9	110.0	89.0	62.6
17.5°	48.4	55.7	86.5	154.5	253.3	300.2	328.6	305.6	202.4	118.8
20°	51.8	68.0	160.9	400.5	657.2	810.7	853.2	786.7	505.1	226.4
22.5°	57.7	95.3	326.1	827.8	1416.0	1646.3	1689.8	1477.1	953.9	446.9
25°	69.9	138.4	562.3	1349.0	2113.3	2502.0	2483.9	2205.2	1547.5	713.9
27.5°	87.5	201.4	850.3	1916.7	2781.2	3123.9	3165.0	2820.3	2062.9	1049.8
30°	112.9	279.2	1159.3	2371.4	3316.6	3687.2	3694.0	3337.6	2524.0	1344.6
32.5°	137.4	352.5	1429.7	2811.0	3844.1	4250.5	4280.8	3842.2	2868.2	1651.7
35°	156.0	400.5	1703.5	3197.3	4376.1	4936.0	4934.0	4413.3	3276.0	1926.0
37.5°	157.4	448.4	1951.4	3592.3	5049.9	5676.7	5738.8	5164.8	3768.8	2265.3
40°	154.0	502.2	2265.3	4208.4	6264.0	7225.7	7280.5	6556.8	4757.5	2846.2
42.5°	157.9	595.5	2774.8	5346.2	8279.9	9661.2	9766.8	9006.0	6574.9	4031.4
45°	178.5	771.1	3842.2	7249.7	11153.5	12837.4	12802.2	11706.5	8689.7	5835.6
47.5°	246.4	1200.9	5424.4	9102.3	12990.0	14489.6	14519.9	13180.7	9923.8	7222.8
50°	378.9	1837.5	6753.9	10081.7	13779.6	15284.2	15255.8	13708.3	10392.7	7905.9
52.5°	492.9	2298.1	7420.8	10425.4	13880.9	15676.8	15674.8	13847.1	10465.5	7964.5
55°	521.2	2332.8	7426.2	10444.0	14107.7	16190.7	16255.2	14188.9	10559.9	7708.3
57.5°	510.0	2065.3	7116.2	10551.6	14511.6	16588.2	16591.6	14519.9	10799.5	7551.4
58°	500.2	2023.3	7053.6	10612.7	14581.0	16604.8	16596.5	14535.1	10994.6	7545.5
60°	445.4	1756.8	6809.6	10768.7	14477.9	16263.5	16185.8	14204.1	10965.7	7485.4
62.5°	350.1	1370.5	6569.6	10588.3	13371.9	14611.4	14643.6	12575.4	9996.6	7134.8
65°	278.7	1021.4	6068.9	9287.6	11011.2	11998.9	12119.2	10225.9	8344.0	6041.5
67.5°	222.0	738.3	5091.0	7394.4	8713.1	10014.2	10101.8	8585.5	6464.4	4628.9
70°	180.4	499.2	3514.1	5407.8	7186.6	8649.6	8654.9	7132.3	4825.0	3033.0
72.5°	159.9	345.7	2039.9	3943.9	5827.3	7048.2	6906.0	5787.7	3708.2	1796.4
75°	138.4	229.3	1000.4	2411.0	3533.2	3557.1	3611.4	2684.8	1853.6	854.2
77.5°	113.9	162.8	394.1	658.6	1059.6	1356.4	1406.7	1065.9	616.6	210.2
80°	78.2	77.3	106.1	201.9	303.2	379.9	354.5	274.3	161.4	80.7
82.5°	33.7	36.7	47.9	57.7	46.9	45.5	43.5	27.9	21.5	16.6
85°	10.8	9.8	10.3	10.3	8.3	6.4	6.4	2.9	0.0	0.0
87.5°	5.4	4.4	4.4	3.9	2.4	1.0	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°
28.4	0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
26.4	2.5°	25.9	25.9	24.9	24.0	23.5	22.5	22.0	21.5	21.0	20.5
28.4	5°	27.4	26.9	25.4	24.0	22.5	21.0	20.0	19.1	18.1	17.6
31.3	7.5°	29.8	28.8	25.9	23.5	21.5	19.6	18.6	17.1	16.1	14.7
34.7	10°	32.8	30.8	26.9	24.0	21.0	18.6	17.1	15.6	14.2	12.2
39.6	12.5°	36.7	33.2	28.4	23.5	20.0	17.1	15.6	13.7	12.2	10.8
46.0	15°	40.1	35.7	28.8	23.5	19.1	15.6	13.7	11.7	10.3	8.3
57.7	17.5°	45.0	37.6	28.4	22.0	17.6	13.7	11.7	10.3	7.8	4.9
85.6	20°	53.3	39.1	27.4	20.5	15.2	11.2	8.8	6.8	3.4	1.0
128.6	22.5°	66.5	43.0	26.4	18.6	13.2	8.8	5.9	2.4	0.0	0.0
195.6	25°	91.9	49.9	26.4	17.6	11.7	6.4	2.0	0.0	0.0	0.0
277.7	27.5°	122.2	59.2	26.4	15.2	9.3	3.4	0.0	0.0	0.0	0.0
378.4	30°	153.0	69.4	26.4	13.2	7.3	0.5	0.0	0.0	0.0	0.0
466.0	32.5°	182.4	78.2	26.9	11.2	4.9	0.0	0.0	0.0	0.0	0.0
587.2	35°	212.2	79.7	26.4	9.8	2.9	0.0	0.0	0.0	0.0	0.0
735.9	37.5°	250.3	76.8	24.9	8.8	1.5	0.0	0.0	0.0	0.0	0.0
968.1	40°	308.0	78.2	23.5	8.3	0.5	0.0	0.0	0.0	0.0	0.0
1382.3	42.5°	414.6	84.6	21.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0
2201.8	45°	716.8	113.4	19.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
3305.3	47.5°	1185.7	203.9	19.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0
3981.5	50°	1513.3	256.7	20.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
4066.1	52.5°	1510.9	286.0	21.0	9.8	2.0	0.0	0.0	0.0	0.0	0.0
3747.8	55°	1343.2	291.4	22.5	10.8	6.4	0.0	0.0	0.0	0.0	0.0
3220.7	57.5°	1122.6	266.0	25.9	13.2	11.7	0.0	0.0	0.0	0.0	0.0
3138.1	58°	1083.5	254.3	26.9	13.7	12.7	0.0	0.0	0.0	0.0	0.0
2722.0	60°	887.9	207.3	34.2	17.1	17.1	0.0	0.0	0.0	0.0	0.0
2231.6	62.5°	613.1	180.9	39.1	22.0	17.6	0.0	0.0	0.0	0.0	0.0
1645.3	65°	433.7	163.3	42.5	23.5	14.2	0.0	0.0	0.0	0.0	0.0
1169.1	67.5°	324.2	150.6	46.9	24.0	7.3	0.0	0.0	0.0	0.0	0.0
733.4	70°	248.4	141.3	57.7	25.4	2.0	0.0	0.0	0.0	0.0	0.0
437.1	72.5°	202.4	130.6	69.9	26.4	0.0	0.0	0.0	0.0	0.0	0.0
262.1	75°	167.7	117.8	67.5	28.8	0.0	0.0	0.0	0.0	0.0	0.0
139.8	77.5°	111.5	91.4	61.6	28.8	0.0	0.0	0.0	0.0	0.0	0.0
49.9	80°	39.1	36.2	47.9	25.4	0.0	0.0	0.0	0.0	0.0	0.0
10.3	82.5°	5.9	4.9	6.8	8.8	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°
28.4	0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
20.0	2.5°	20.0	20.0	19.6	20.0	20.0	21.0	23.5	26.9	30.8	32.3
17.1	5°	16.6	16.1	15.6	15.6	15.6	17.1	19.1	23.0	27.4	29.3
14.2	7.5°	13.7	13.2	12.7	12.2	12.2	13.2	15.6	20.0	24.4	26.4
11.7	10°	11.2	10.3	9.8	9.3	9.3	10.3	12.7	17.1	22.0	24.0
9.8	12.5°	9.3	7.8	6.8	6.4	5.9	7.3	9.8	13.7	19.1	21.5
7.3	15°	6.4	4.9	3.4	2.9	2.4	3.9	6.4	10.8	16.1	19.1
3.9	17.5°	3.4	1.5	0.5	0.0	0.0	1.0	2.9	7.8	13.2	15.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.8	12.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.9	8.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9
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°
28.4	0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
33.7	2.5°	34.7	34.2	33.2	32.3	32.3	32.3	33.7	35.2	36.7	36.7
30.3	5°	32.3	32.3	31.8	30.8	30.8	31.3	33.2	35.7	37.6	38.1
27.9	7.5°	29.8	30.8	29.8	29.3	29.8	30.3	32.3	35.2	38.1	39.1
25.9	10°	28.4	28.8	28.8	28.4	28.4	29.3	31.3	35.2	39.1	40.6
23.5	12.5°	26.4	27.4	26.9	26.9	26.9	27.9	30.3	34.7	40.1	42.0
21.0	15°	24.4	25.9	25.9	25.4	25.4	25.9	29.3	34.2	41.6	45.0
18.1	17.5°	22.5	24.0	24.4	23.5	23.5	24.4	27.9	34.2	42.5	48.4
14.7	20°	18.6	21.0	22.5	21.0	21.0	22.0	25.4	32.3	43.0	51.8
10.8	22.5°	14.7	17.1	19.1	18.6	18.6	19.1	23.5	30.8	43.5	57.7
6.4	25°	10.8	13.2	14.7	15.6	15.6	17.1	21.5	29.8	45.5	69.9
2.9	27.5°	6.4	9.3	11.2	12.2	12.7	14.7	20.0	28.8	48.9	87.5
0.0	30°	2.9	5.4	7.8	9.8	9.8	13.2	18.6	27.9	53.3	112.9
0.0	32.5°	0.0	2.4	3.9	6.8	7.3	10.8	17.1	26.9	59.7	137.4
0.0	35°	0.0	0.0	2.0	5.4	5.4	8.8	15.6	25.9	69.4	156.0
0.0	37.5°	0.0	0.0	0.0	3.9	4.4	7.8	15.2	25.4	71.4	157.4
0.0	40°	0.0	0.0	0.0	2.9	3.4	7.3	15.2	25.9	64.5	154.0
0.0	42.5°	0.0	0.0	0.0	2.0	2.4	7.3	15.2	26.9	58.2	157.9
0.0	45°	0.0	0.0	0.0	1.5	2.0	7.8	14.7	26.4	54.8	178.5
0.0	47.5°	0.0	0.0	0.0	2.0	2.9	7.8	14.2	25.9	55.3	246.4
0.0	50°	0.0	0.0	0.0	2.4	3.4	7.8	14.7	24.9	60.6	378.9
0.0	52.5°	0.0	0.0	0.0	2.0	2.9	8.8	16.1	24.4	66.0	492.9
0.0	55°	0.0	0.0	0.0	0.5	1.5	11.2	17.6	24.4	74.3	521.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	12.7	20.0	25.9	88.0	510.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	12.7	20.5	25.9	89.0	500.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	12.7	22.5	28.8	95.8	445.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.8	26.9	36.2	99.7	350.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.8	31.8	39.6	102.7	278.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	8.3	32.8	40.1	104.1	222.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.8	32.3	43.0	109.0	180.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.8	29.3	47.4	109.0	159.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	10.3	27.4	53.3	99.3	138.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.8	26.9	62.1	88.5	113.9
0.0	80°	1.0	1.5	1.5	1.0	1.0	8.3	26.4	63.1	75.3	78.2
0.5	82.5°	2.9	3.9	3.4	2.4	2.4	7.3	23.5	52.8	39.1	33.7
2.9	85°	5.4	6.4	6.4	5.4	5.4	6.8	14.7	19.1	13.2	10.8
5.4	87.5°	7.3	8.3	8.3	7.3	7.3	6.8	6.4	5.9	5.4	5.4
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



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

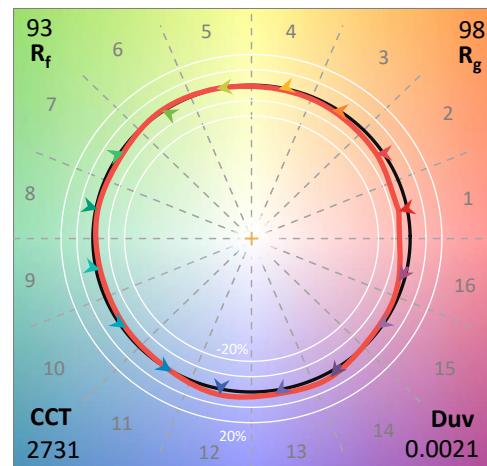
Test Information

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

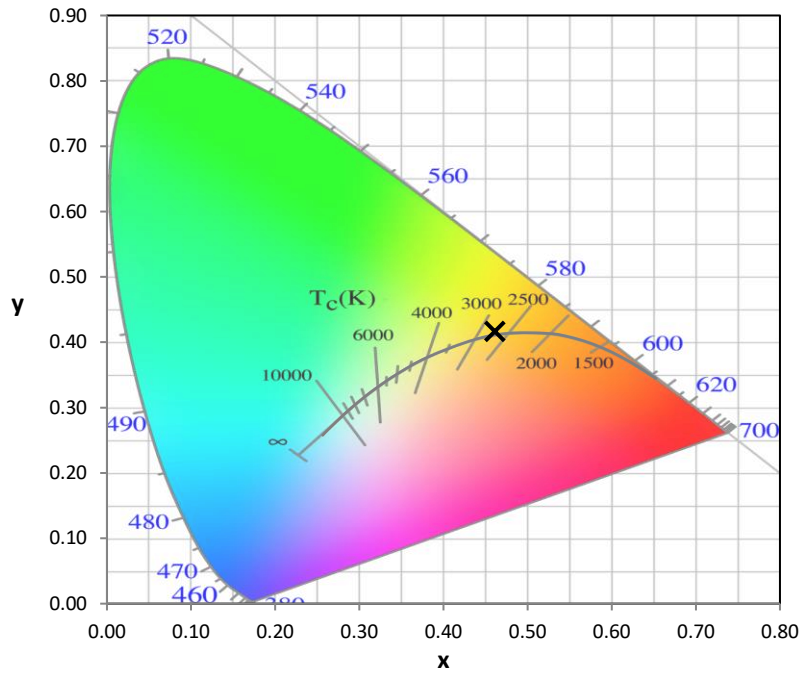
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

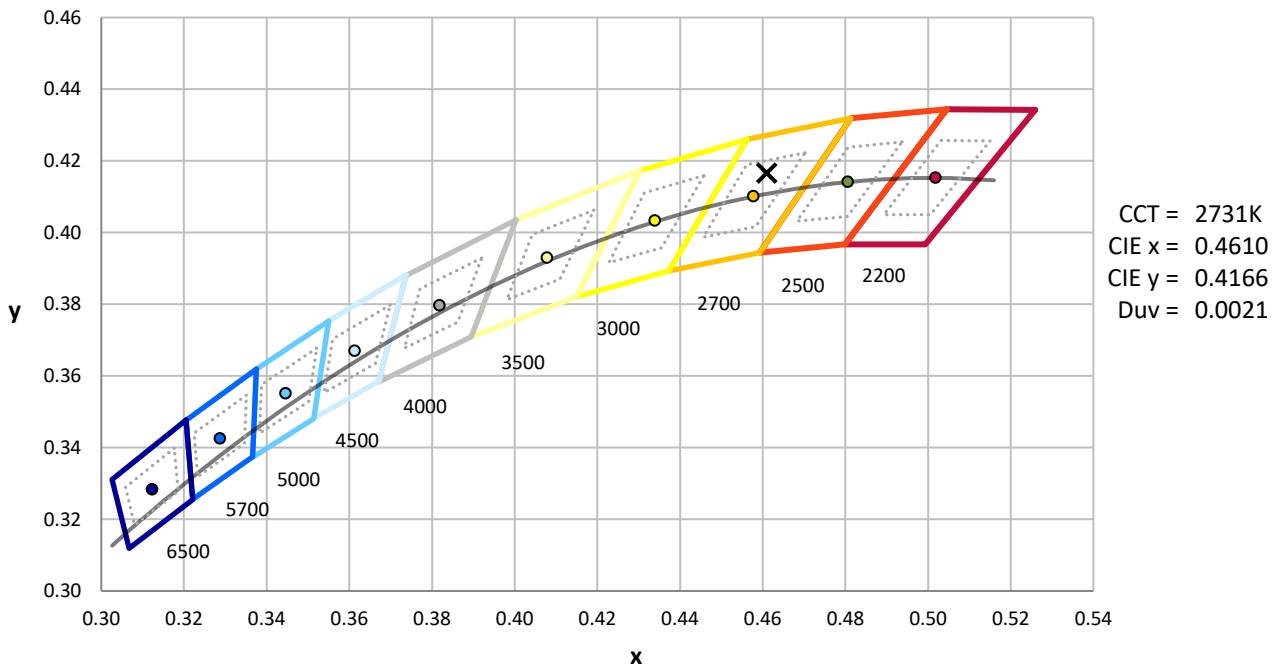
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



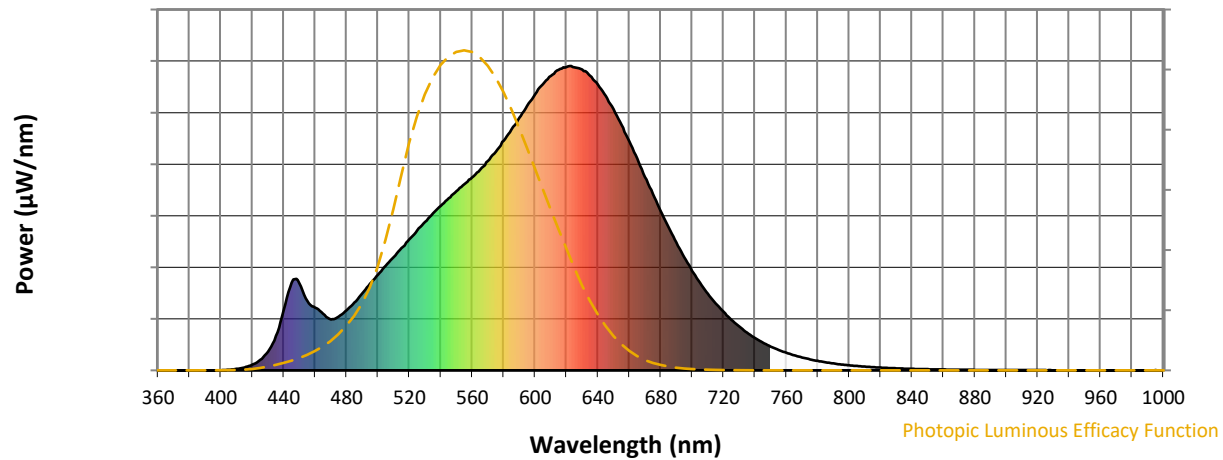
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

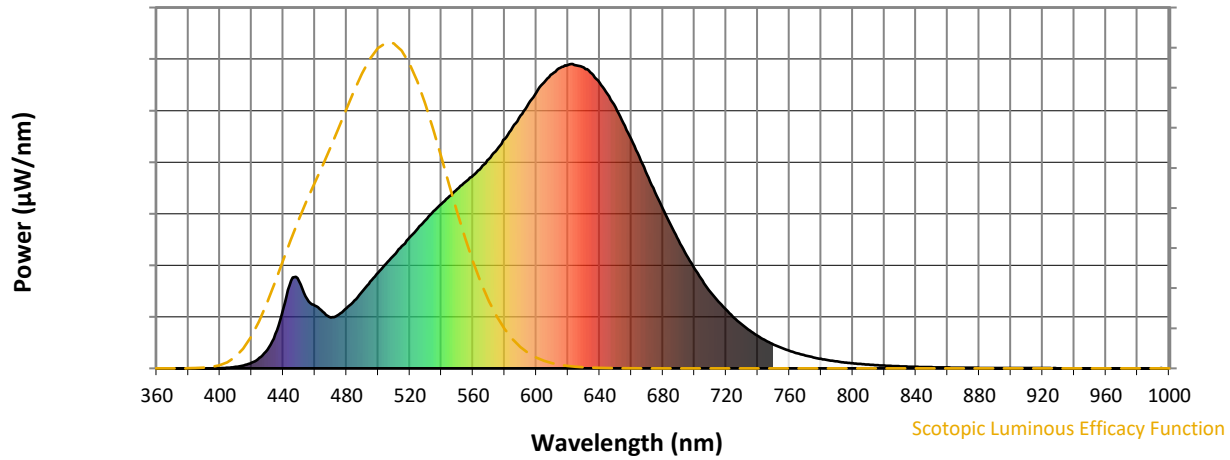


Photopic Lumens: NR

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	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			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



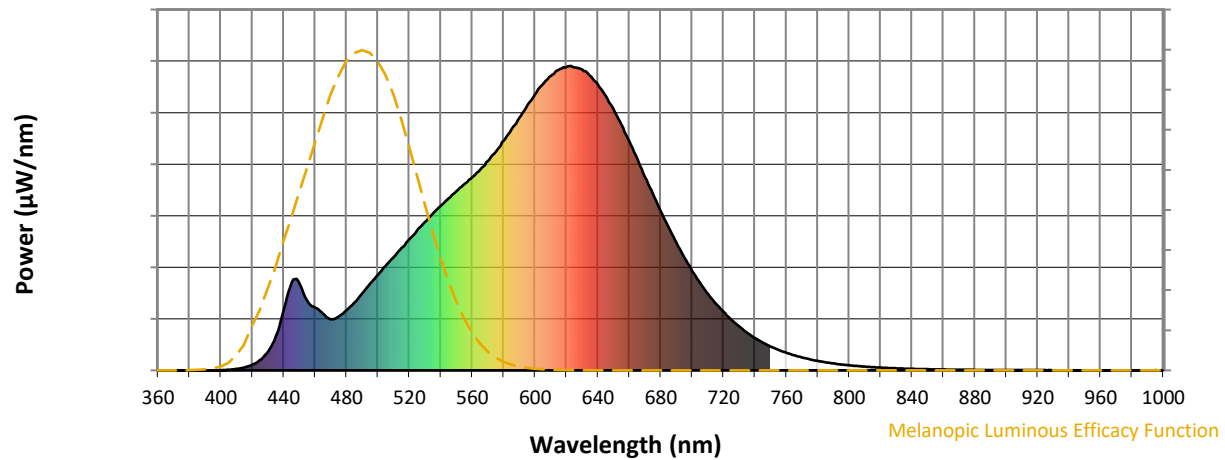
Scotopic Lumens: NR

S/P: 1.27

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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

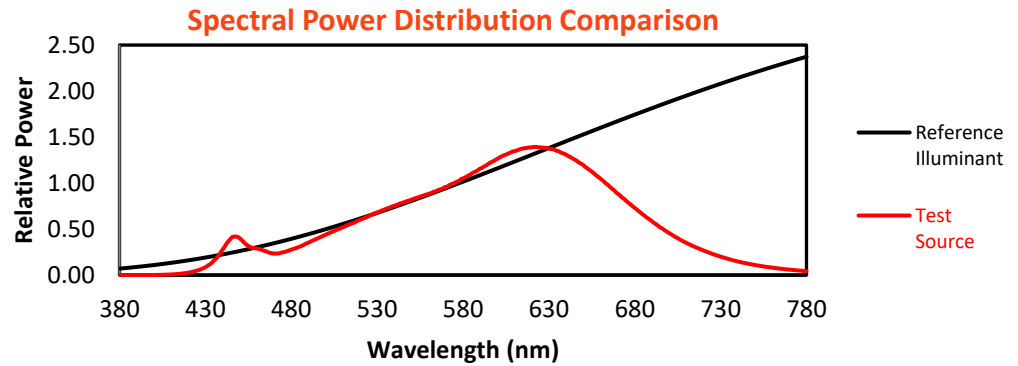
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	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			

REPORT NUMBER: SP1-2407-184-13

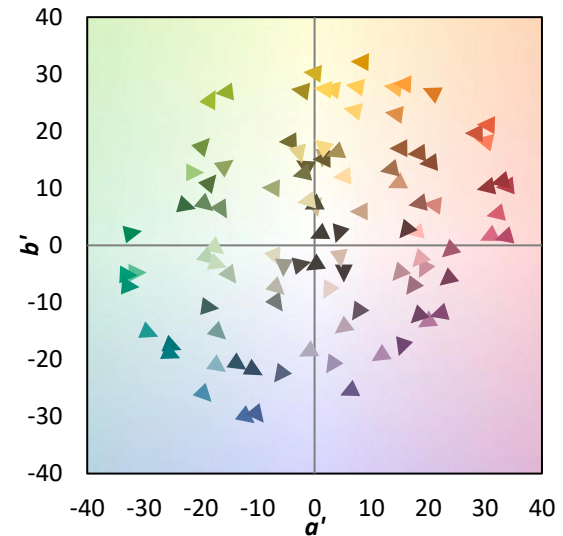
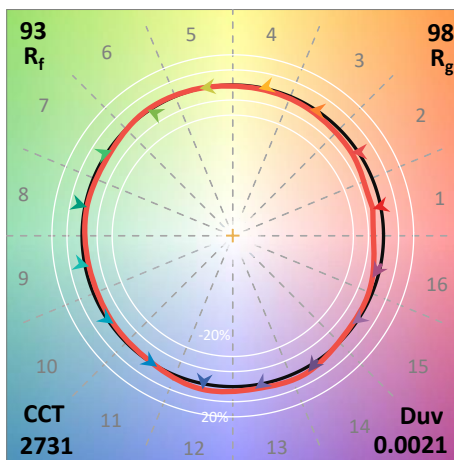
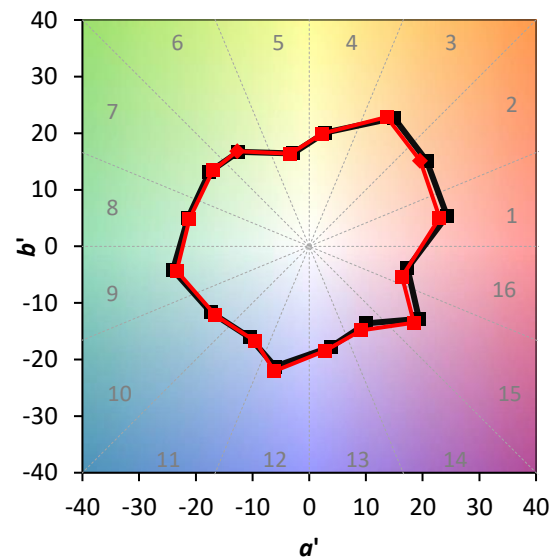
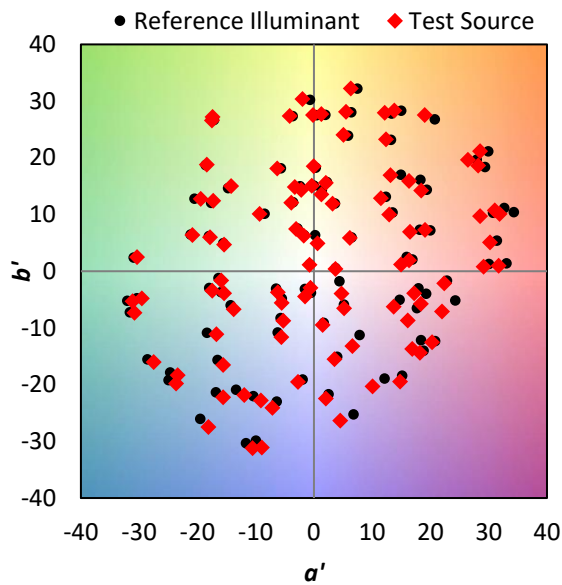
TM-30-18

Summary

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

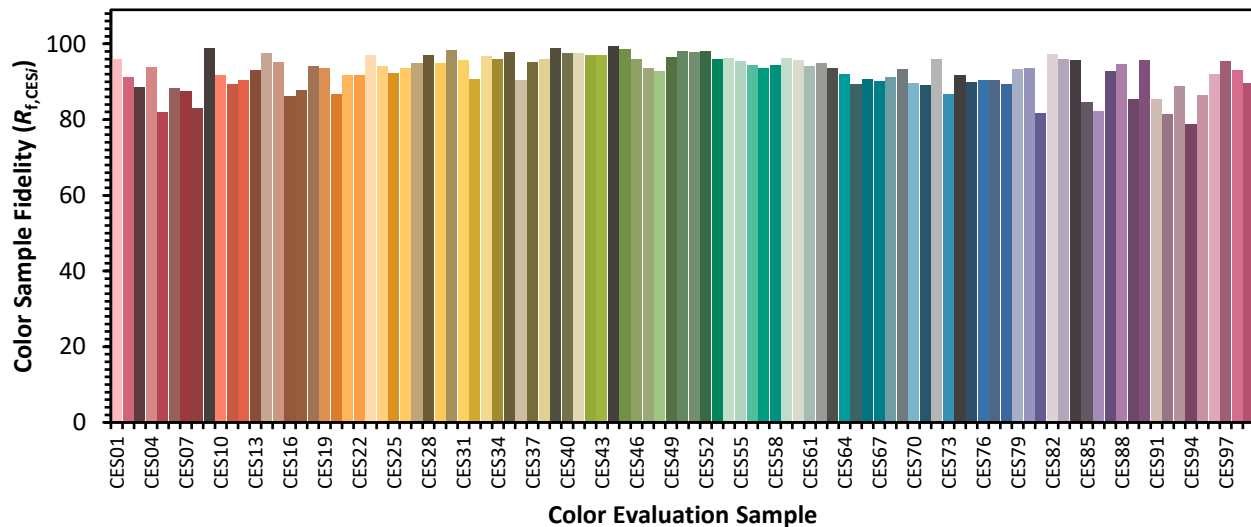


Color Vector Graphics

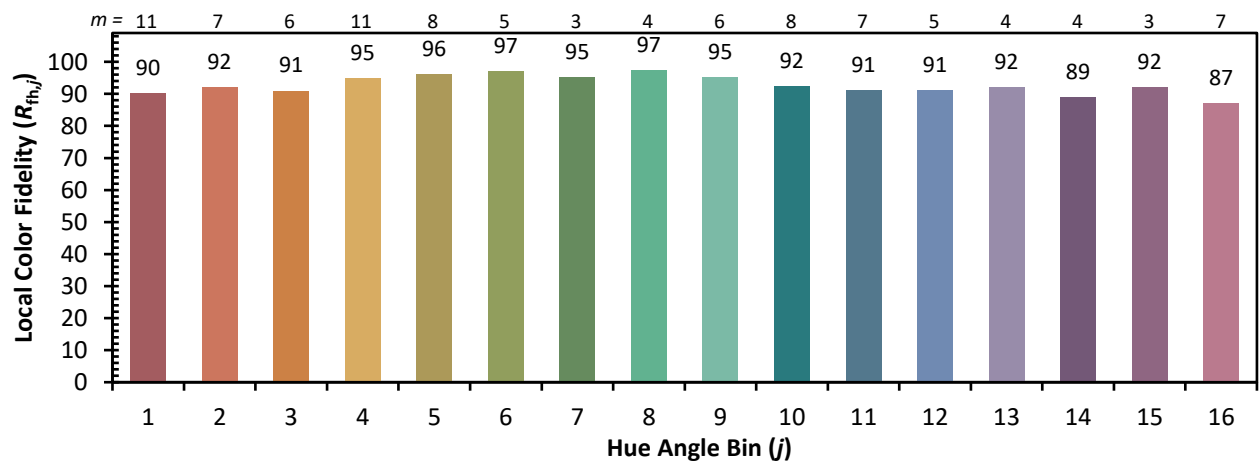
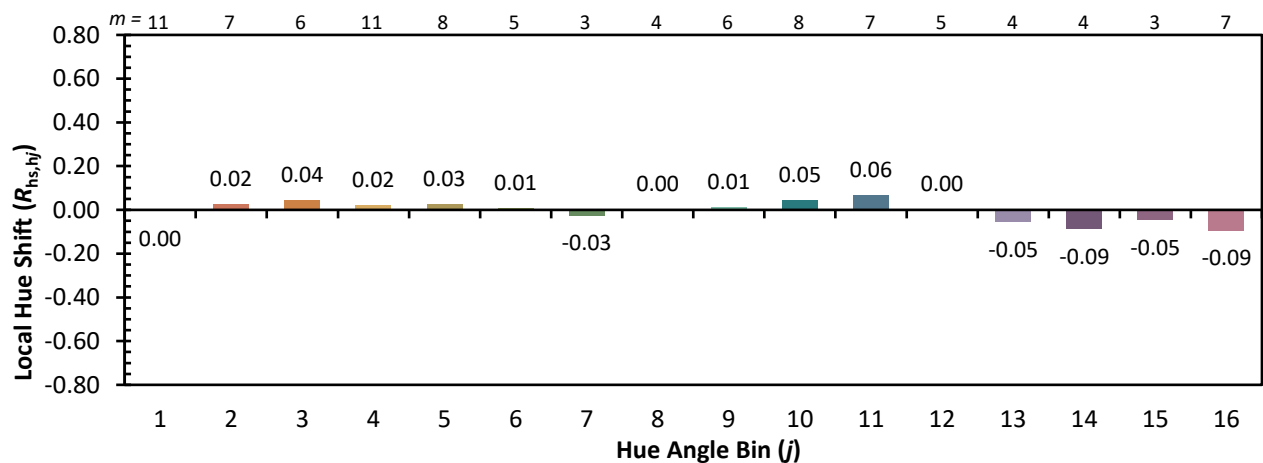
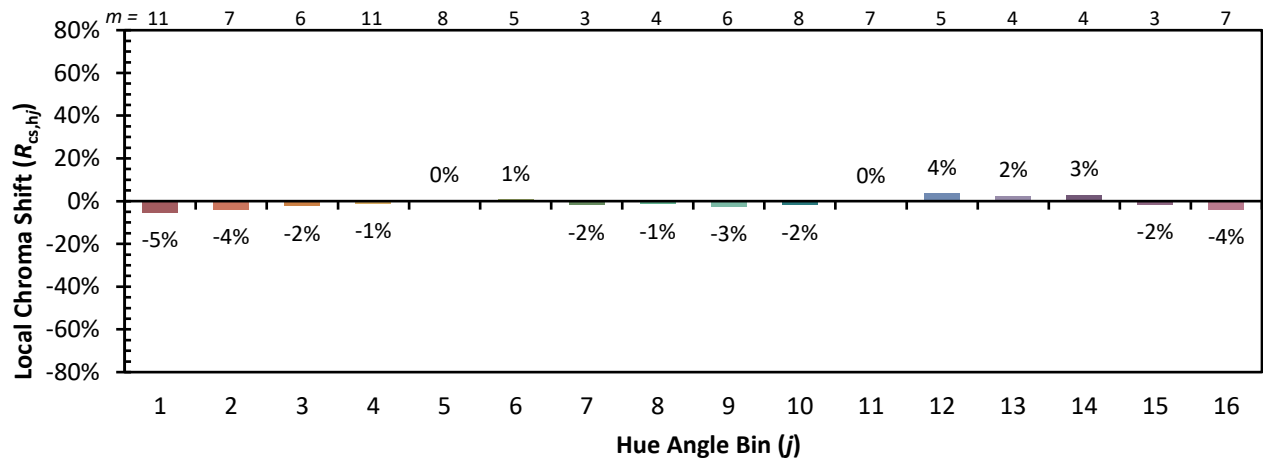


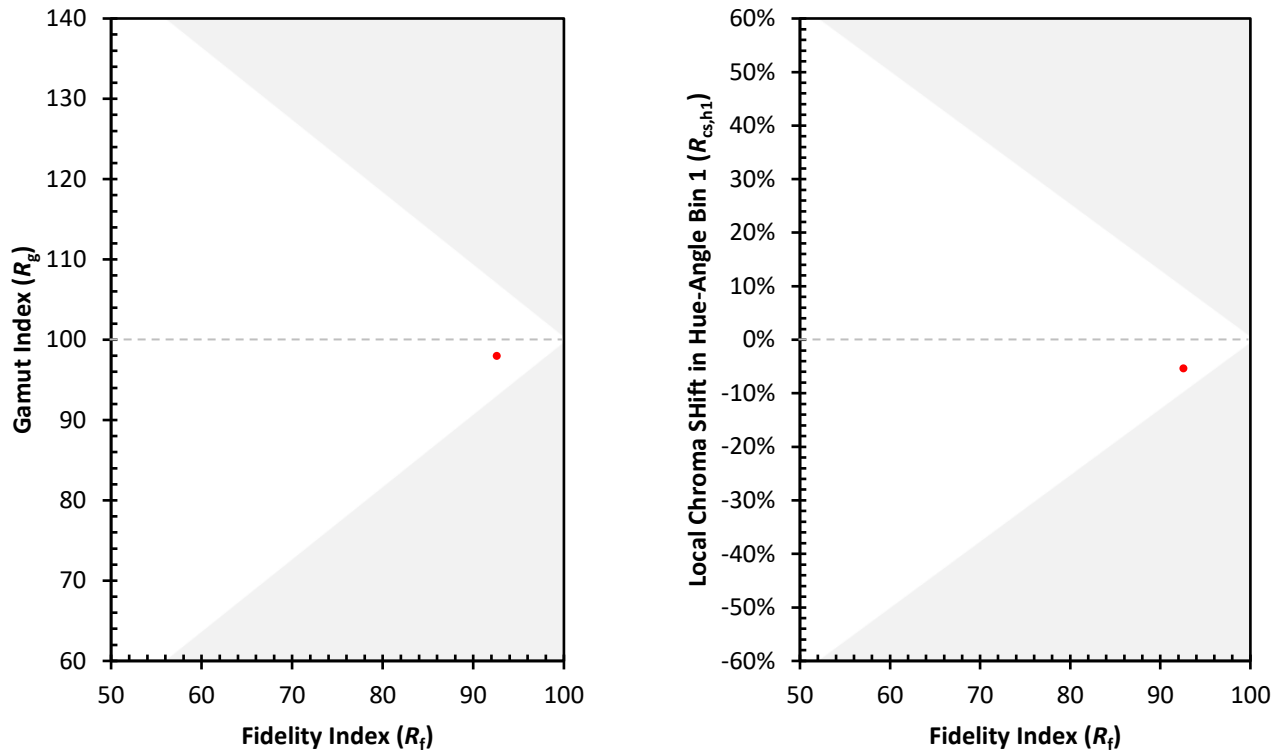
Individual Sample Fidelity Index ($R_{f,i}$)

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)