

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: P1049939

Luminaire Tested: **GALN-SA3C-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049939
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10690.1 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

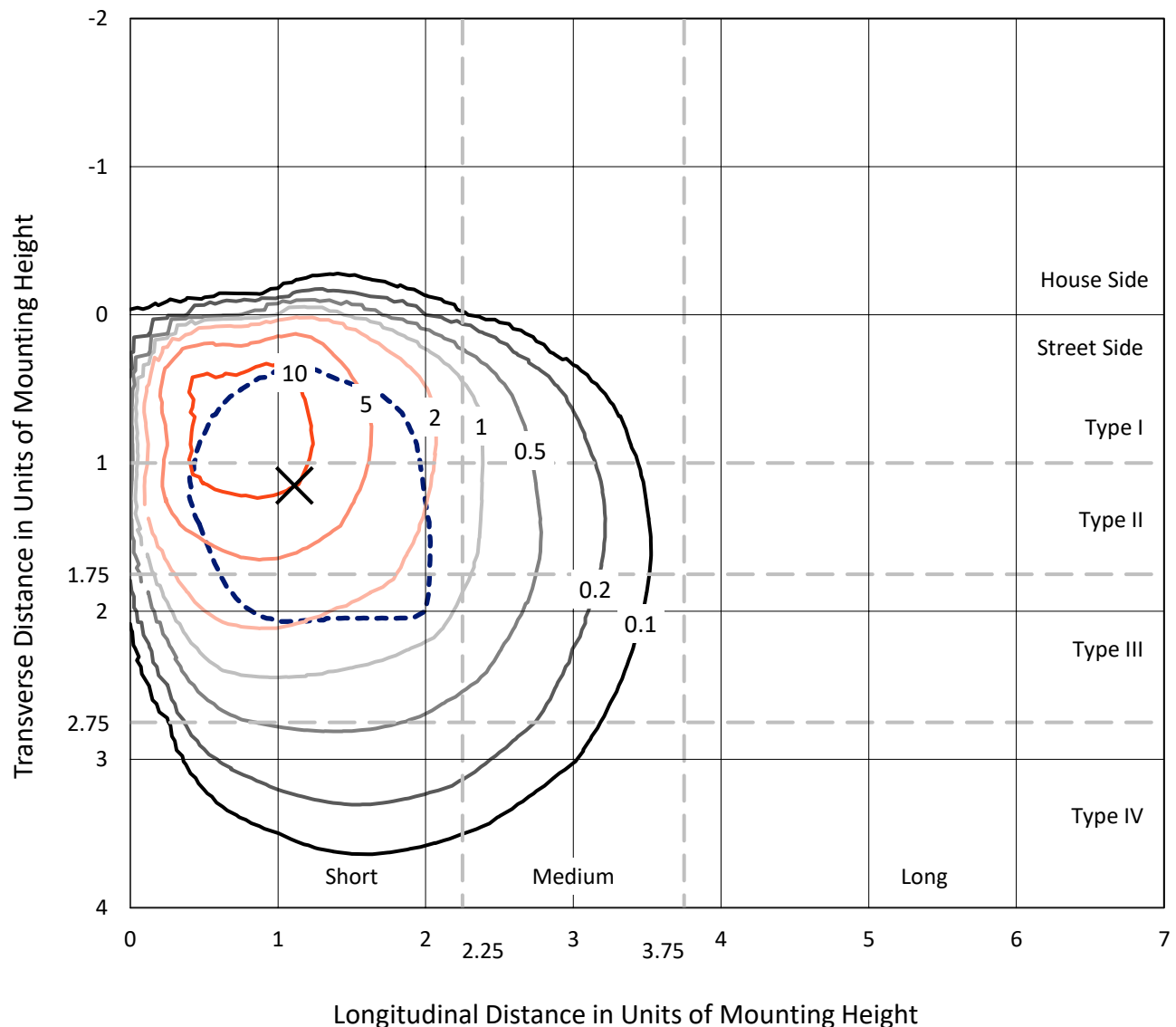
Input Watts (W): 140.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

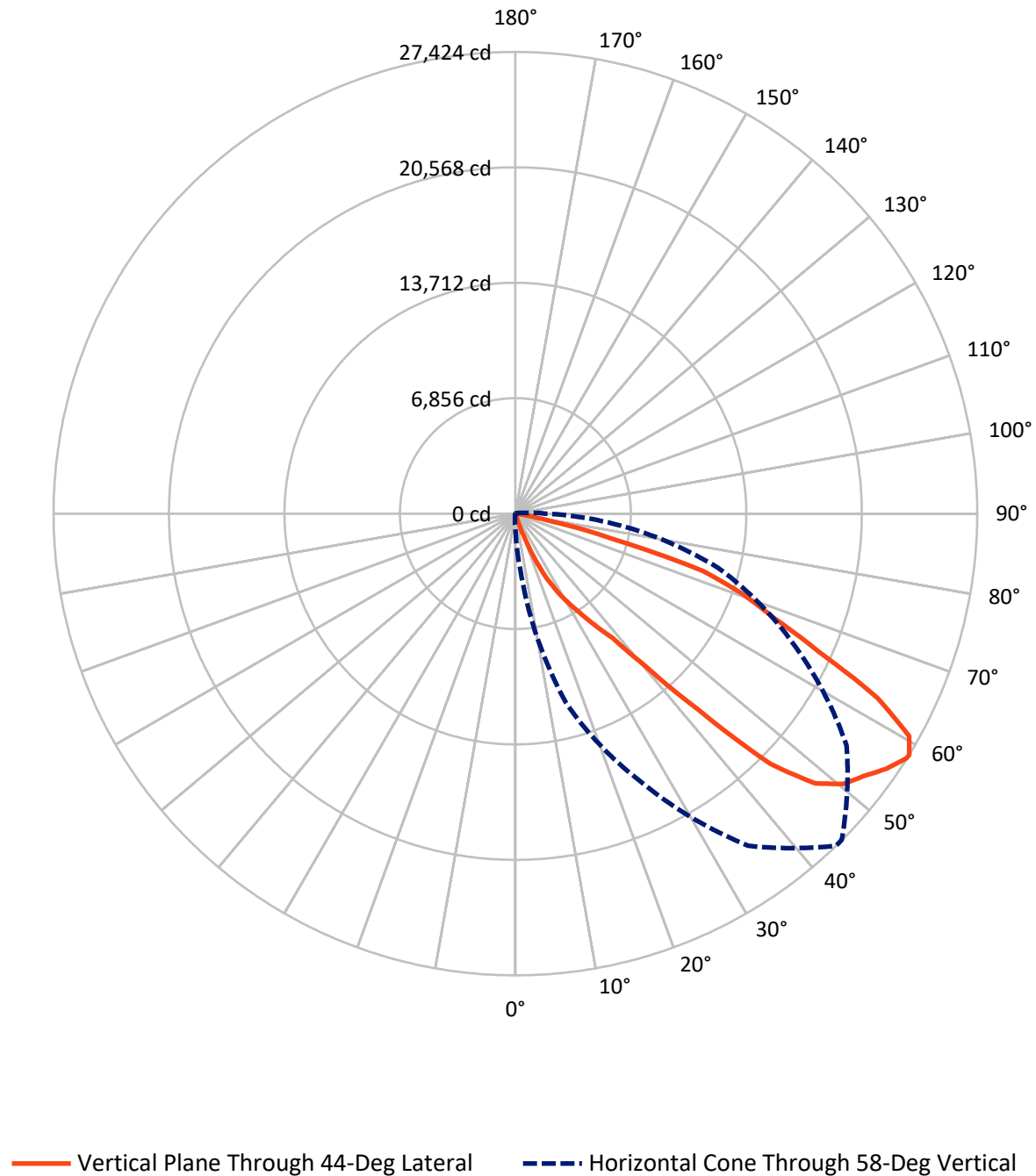
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.6 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	73.0	0.0	73.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10617.2	0.0	10617.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	10690.1	0.0	10690.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.0
10°-20°	23.4	0.2
20°-30°	253.2	2.4
30°-40°	749.0	7.0
40°-50°	2232.3	20.9
50°-60°	3542.1	33.1
60°-70°	2954.5	27.6
70°-80°	911.2	8.5
80°-90°	20.2	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°	10690.1	100.0
0°-180°	10690.1	100.0



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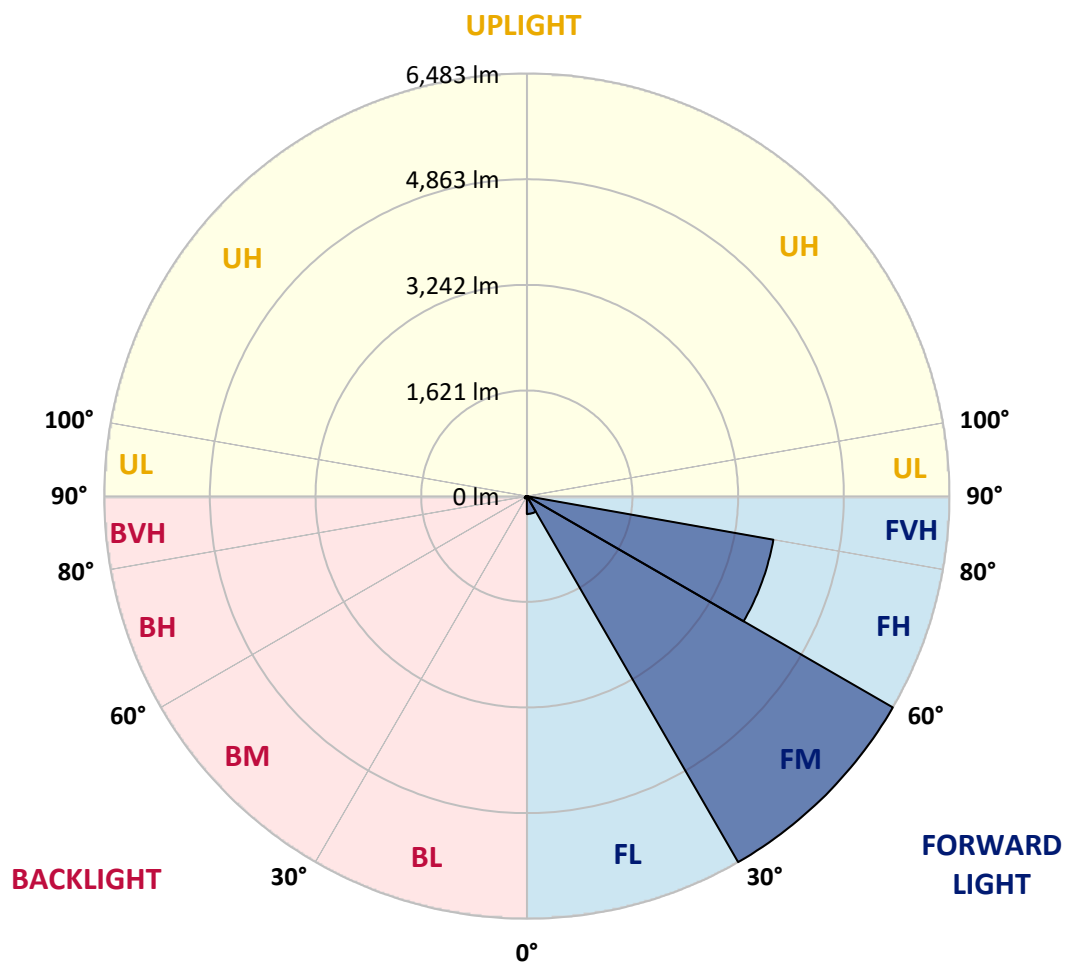
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.7	2.6			
FM	(30°-60°)	6483.4	60.6			
FH	(60°-80°)	3840.8	35.9			G2/5000
FVH	(80°-90°)	19.3	0.2			G1/100
BL	(0°-30°)	7.1	0.1	B0/110		
BM	(30°-60°)	39.9	0.4	B0/220		
BH	(60°-80°)	24.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2.5°	60.6	60.6	58.1	54.9	51.7	48.5	47.6	46.0	45.2	44.4
5°	63.0	63.0	62.2	59.8	56.5	54.1	54.1	51.7	50.1	48.5
7.5°	64.6	65.4	67.0	66.2	64.6	62.2	62.2	60.6	58.1	54.1
10°	67.0	69.4	72.7	74.3	75.1	75.1	74.3	73.5	69.4	63.8
12.5°	69.4	74.3	82.4	90.4	95.3	101.8	100.9	99.3	88.8	76.7
15°	74.3	81.6	98.5	121.9	158.3	180.9	189.8	181.7	147.0	103.4
17.5°	79.9	92.1	142.9	255.2	418.3	495.8	542.7	504.7	334.3	196.2
20°	85.6	112.2	265.7	661.4	1085.3	1338.9	1409.2	1299.3	834.2	373.9
22.5°	95.3	157.5	538.6	1367.2	2338.7	2719.0	2790.9	2439.6	1575.5	738.1
25°	115.5	228.5	928.7	2228.0	3490.2	4132.2	4102.4	3642.1	2555.9	1179.0
27.5°	144.6	332.7	1404.3	3165.6	4593.3	5159.4	5227.3	4657.9	3407.1	1733.8
30°	186.5	461.1	1914.7	3916.6	5477.6	6089.7	6101.0	5512.3	4168.6	2220.8
32.5°	226.9	582.2	2361.3	4642.6	6349.0	7020.0	7070.1	6345.7	4737.1	2727.9
35°	257.6	661.4	2813.5	5280.6	7227.6	8152.2	8149.0	7288.9	5410.6	3180.9
37.5°	260.0	740.5	3222.9	5933.1	8340.4	9375.7	9478.2	8530.2	6224.6	3741.4
40°	254.4	829.4	3741.4	6950.6	10345.5	11934.0	12024.4	10829.2	7857.5	4700.7
42.5°	260.8	983.6	4582.8	8829.8	13675.1	15956.4	16130.8	14874.3	10859.1	6658.3
45°	294.8	1273.5	6345.7	11973.5	18421.0	21202.2	21144.1	19334.4	14351.8	9638.1
47.5°	407.0	1983.3	8959.0	15033.4	21454.2	23930.9	23981.0	21769.1	16390.0	11929.1
50°	625.9	3034.8	11154.7	16650.9	22758.4	25243.2	25196.4	22640.5	17164.5	13057.3
52.5°	814.0	3795.5	12256.2	17218.6	22925.5	25891.7	25888.4	22869.8	17284.8	13154.2
55°	860.8	3852.8	12265.1	17249.3	23300.2	26740.4	26847.0	23434.3	17440.7	12731.0
57.5°	842.3	3411.1	11753.1	17426.9	23967.3	27396.9	27402.6	23981.0	17836.4	12471.8
58°	826.1	3341.6	11649.7	17527.9	24082.0	27424.4	27410.7	24006.0	18158.6	12462.1
60°	735.7	2901.5	11246.8	17785.5	23911.6	26860.7	26732.3	23459.3	18110.9	12362.8
62.5°	578.2	2263.6	10850.2	17487.5	22084.9	24132.0	24185.3	20769.4	16510.4	11783.8
65°	460.3	1687.0	10023.3	15339.4	18186.0	19817.3	20015.9	16889.1	13780.8	9978.1
67.5°	366.6	1219.4	8408.2	12212.6	14390.5	16539.4	16684.0	14179.8	10676.6	7645.1
70°	298.0	824.5	5803.9	8931.5	11869.4	14285.6	14294.4	11779.7	7968.9	5009.2
72.5°	264.1	570.9	3369.1	6513.7	9624.4	11640.8	11405.8	9559.0	6124.5	2966.9
75°	228.5	378.7	1652.2	3982.0	5835.4	5874.9	5964.6	4434.3	3061.4	1410.8
77.5°	188.2	268.9	650.9	1087.8	1750.0	2240.1	2323.3	1760.5	1018.3	347.2
80°	129.2	127.6	175.2	333.5	500.7	627.5	585.5	453.0	266.5	133.2
82.5°	55.7	60.6	79.1	95.3	77.5	75.1	71.9	46.0	35.5	27.5
85°	17.8	16.2	17.0	17.0	13.7	10.5	10.5	4.8	0.0	0.0
87.5°	8.9	7.3	7.3	6.5	4.0	1.6	0.8	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°
46.8	0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
43.6	2.5°	42.8	42.8	41.2	39.6	38.8	37.1	36.3	35.5	34.7	33.9
46.8	5°	45.2	44.4	42.0	39.6	37.1	34.7	33.1	31.5	29.9	29.1
51.7	7.5°	49.3	47.6	42.8	38.8	35.5	32.3	30.7	28.3	26.6	24.2
57.3	10°	54.1	50.9	44.4	39.6	34.7	30.7	28.3	25.8	23.4	20.2
65.4	12.5°	60.6	54.9	46.8	38.8	33.1	28.3	25.8	22.6	20.2	17.8
75.9	15°	66.2	59.0	47.6	38.8	31.5	25.8	22.6	19.4	17.0	13.7
95.3	17.5°	74.3	62.2	46.8	36.3	29.1	22.6	19.4	17.0	12.9	8.1
141.3	20°	88.0	64.6	45.2	33.9	25.0	18.6	14.5	11.3	5.7	1.6
212.4	22.5°	109.8	71.1	43.6	30.7	21.8	14.5	9.7	4.0	0.0	0.0
323.0	25°	151.8	82.4	43.6	29.1	19.4	10.5	3.2	0.0	0.0	0.0
458.7	27.5°	201.9	97.7	43.6	25.0	15.3	5.7	0.0	0.0	0.0	0.0
625.0	30°	252.8	114.7	43.6	21.8	12.1	0.8	0.0	0.0	0.0	0.0
769.6	32.5°	301.2	129.2	44.4	18.6	8.1	0.0	0.0	0.0	0.0	0.0
969.9	35°	350.5	131.6	43.6	16.2	4.8	0.0	0.0	0.0	0.0	0.0
1215.4	37.5°	413.5	126.8	41.2	14.5	2.4	0.0	0.0	0.0	0.0	0.0
1598.9	40°	508.8	129.2	38.8	13.7	0.8	0.0	0.0	0.0	0.0	0.0
2282.9	42.5°	684.8	139.7	35.5	13.7	0.0	0.0	0.0	0.0	0.0	0.0
3636.4	45°	1183.9	187.4	32.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0
5459.0	47.5°	1958.3	336.7	31.5	14.5	0.0	0.0	0.0	0.0	0.0	0.0
6575.9	50°	2499.4	424.0	33.1	15.3	0.0	0.0	0.0	0.0	0.0	0.0
6715.6	52.5°	2495.3	472.4	34.7	16.2	3.2	0.0	0.0	0.0	0.0	0.0
6189.9	55°	2218.3	481.3	37.1	17.8	10.5	0.0	0.0	0.0	0.0	0.0
5319.3	57.5°	1854.1	439.3	42.8	21.8	19.4	0.0	0.0	0.0	0.0	0.0
5182.9	58°	1789.5	419.9	44.4	22.6	21.0	0.0	0.0	0.0	0.0	0.0
4495.6	60°	1466.5	342.4	56.5	28.3	28.3	0.0	0.0	0.0	0.0	0.0
3685.7	62.5°	1012.7	298.8	64.6	36.3	29.1	0.0	0.0	0.0	0.0	0.0
2717.4	65°	716.3	269.7	70.3	38.8	23.4	0.0	0.0	0.0	0.0	0.0
1930.9	67.5°	535.4	248.7	77.5	39.6	12.1	0.0	0.0	0.0	0.0	0.0
1211.3	70°	410.2	233.4	95.3	42.0	3.2	0.0	0.0	0.0	0.0	0.0
721.9	72.5°	334.3	215.6	115.5	43.6	0.0	0.0	0.0	0.0	0.0	0.0
432.8	75°	277.0	194.6	111.4	47.6	0.0	0.0	0.0	0.0	0.0	0.0
231.0	77.5°	184.1	151.0	101.8	47.6	0.0	0.0	0.0	0.0	0.0	0.0
82.4	80°	64.6	59.8	79.1	42.0	0.0	0.0	0.0	0.0	0.0	0.0
17.0	82.5°	9.7	8.1	11.3	14.5	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°
46.8	0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
33.1	2.5°	33.1	33.1	32.3	33.1	33.1	34.7	38.8	44.4	50.9	53.3
28.3	5°	27.5	26.6	25.8	25.8	25.8	28.3	31.5	38.0	45.2	48.5
23.4	7.5°	22.6	21.8	21.0	20.2	20.2	21.8	25.8	33.1	40.4	43.6
19.4	10°	18.6	17.0	16.2	15.3	15.3	17.0	21.0	28.3	36.3	39.6
16.2	12.5°	15.3	12.9	11.3	10.5	9.7	12.1	16.2	22.6	31.5	35.5
12.1	15°	10.5	8.1	5.7	4.8	4.0	6.5	10.5	17.8	26.6	31.5
6.5	17.5°	5.7	2.4	0.8	0.0	0.0	1.6	4.8	12.9	21.8	25.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	16.2	20.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.7	13.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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	2.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
46.8	0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
55.7	2.5°	57.3	56.5	54.9	53.3	53.3	53.3	55.7	58.1	60.6	60.6
50.1	5°	53.3	53.3	52.5	50.9	50.9	51.7	54.9	59.0	62.2	63.0
46.0	7.5°	49.3	50.9	49.3	48.5	49.3	50.1	53.3	58.1	63.0	64.6
42.8	10°	46.8	47.6	47.6	46.8	46.8	48.5	51.7	58.1	64.6	67.0
38.8	12.5°	43.6	45.2	44.4	44.4	44.4	46.0	50.1	57.3	66.2	69.4
34.7	15°	40.4	42.8	42.8	42.0	42.0	42.8	48.5	56.5	68.6	74.3
29.9	17.5°	37.1	39.6	40.4	38.8	38.8	40.4	46.0	56.5	70.3	79.9
24.2	20°	30.7	34.7	37.1	34.7	34.7	36.3	42.0	53.3	71.1	85.6
17.8	22.5°	24.2	28.3	31.5	30.7	30.7	31.5	38.8	50.9	71.9	95.3
10.5	25°	17.8	21.8	24.2	25.8	25.8	28.3	35.5	49.3	75.1	115.5
4.8	27.5°	10.5	15.3	18.6	20.2	21.0	24.2	33.1	47.6	80.8	144.6
0.0	30°	4.8	8.9	12.9	16.2	16.2	21.8	30.7	46.0	88.0	186.5
0.0	32.5°	0.0	4.0	6.5	11.3	12.1	17.8	28.3	44.4	98.5	226.9
0.0	35°	0.0	0.0	3.2	8.9	8.9	14.5	25.8	42.8	114.7	257.6
0.0	37.5°	0.0	0.0	0.0	6.5	7.3	12.9	25.0	42.0	117.9	260.0
0.0	40°	0.0	0.0	0.0	4.8	5.7	12.1	25.0	42.8	106.6	254.4
0.0	42.5°	0.0	0.0	0.0	3.2	4.0	12.1	25.0	44.4	96.1	260.8
0.0	45°	0.0	0.0	0.0	2.4	3.2	12.9	24.2	43.6	90.4	294.8
0.0	47.5°	0.0	0.0	0.0	3.2	4.8	12.9	23.4	42.8	91.3	407.0
0.0	50°	0.0	0.0	0.0	4.0	5.7	12.9	24.2	41.2	100.1	625.9
0.0	52.5°	0.0	0.0	0.0	3.2	4.8	14.5	26.6	40.4	109.0	814.0
0.0	55°	0.0	0.0	0.0	0.8	2.4	18.6	29.1	40.4	122.7	860.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	21.0	33.1	42.8	145.4	842.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	21.0	33.9	42.8	147.0	826.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	21.0	37.1	47.6	158.3	735.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	17.8	44.4	59.8	164.7	578.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	14.5	52.5	65.4	169.6	460.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	13.7	54.1	66.2	172.0	366.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	14.5	53.3	71.1	180.1	298.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	16.2	48.5	78.3	180.1	264.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	17.0	45.2	88.0	163.9	228.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	16.2	44.4	102.6	146.2	188.2
0.0	80°	1.6	2.4	2.4	1.6	1.6	13.7	43.6	104.2	124.4	129.2
0.8	82.5°	4.8	6.5	5.7	4.0	4.0	12.1	38.8	87.2	64.6	55.7
4.8	85°	8.9	10.5	10.5	8.9	8.9	11.3	24.2	31.5	21.8	17.8
8.9	87.5°	12.1	13.7	13.7	12.1	12.1	11.3	10.5	9.7	8.9	8.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

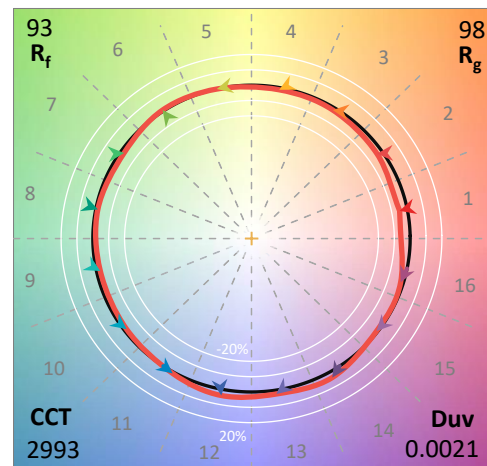
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

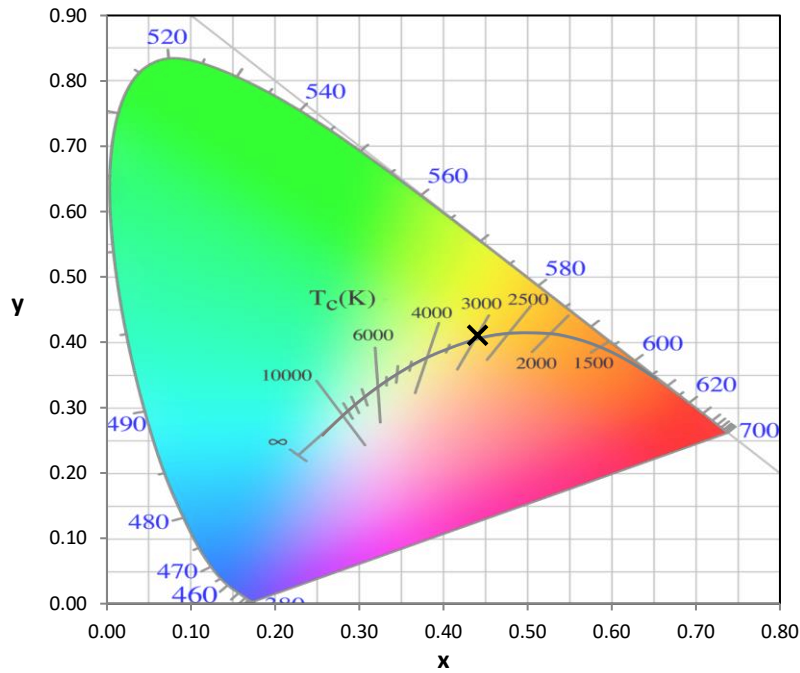
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

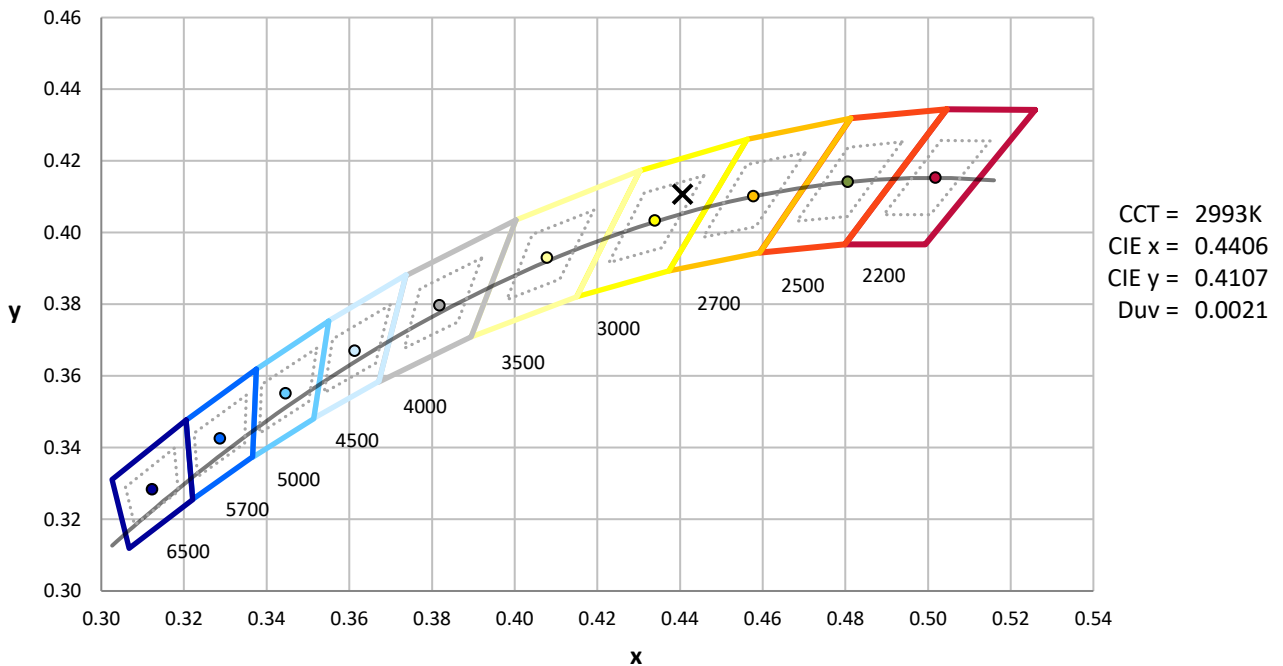
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



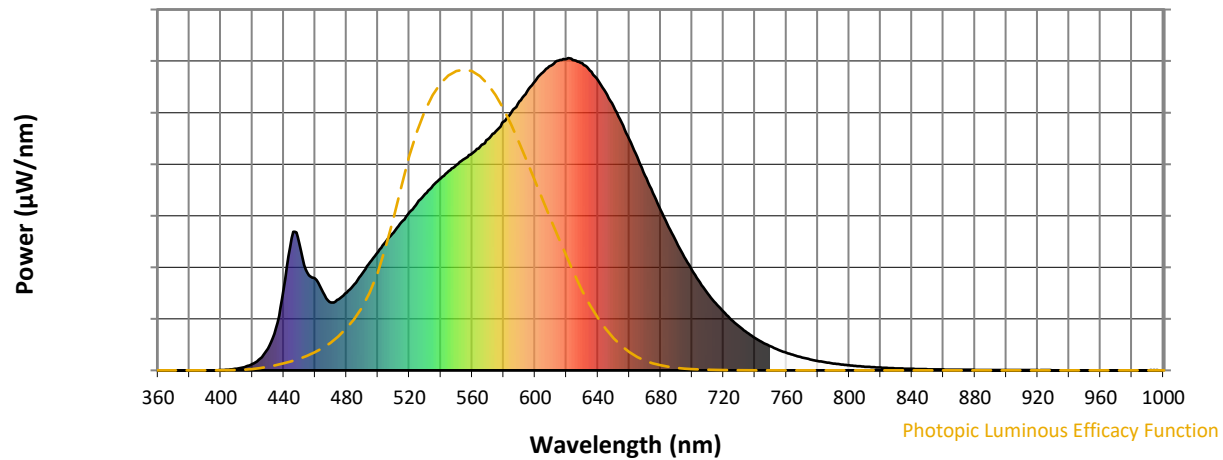
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

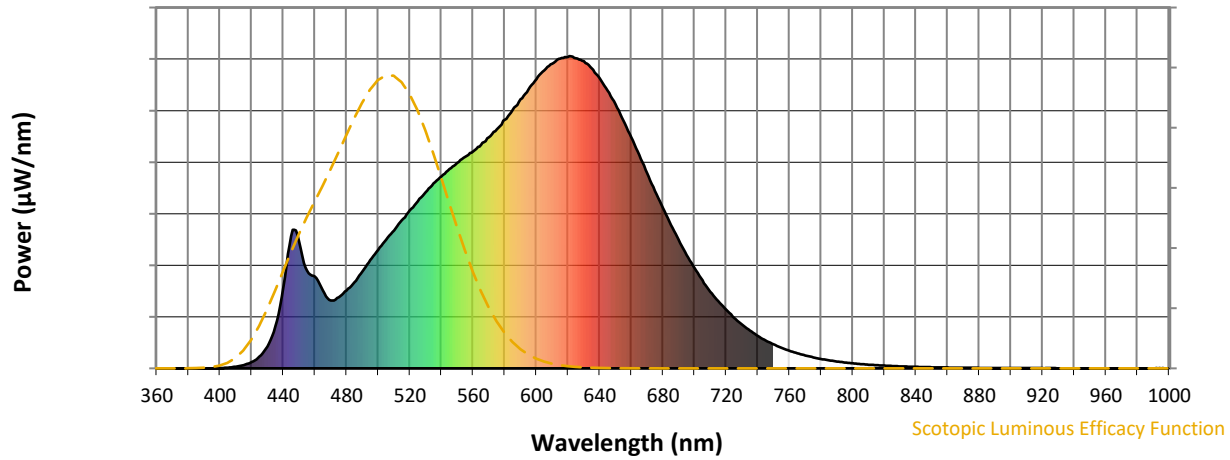


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



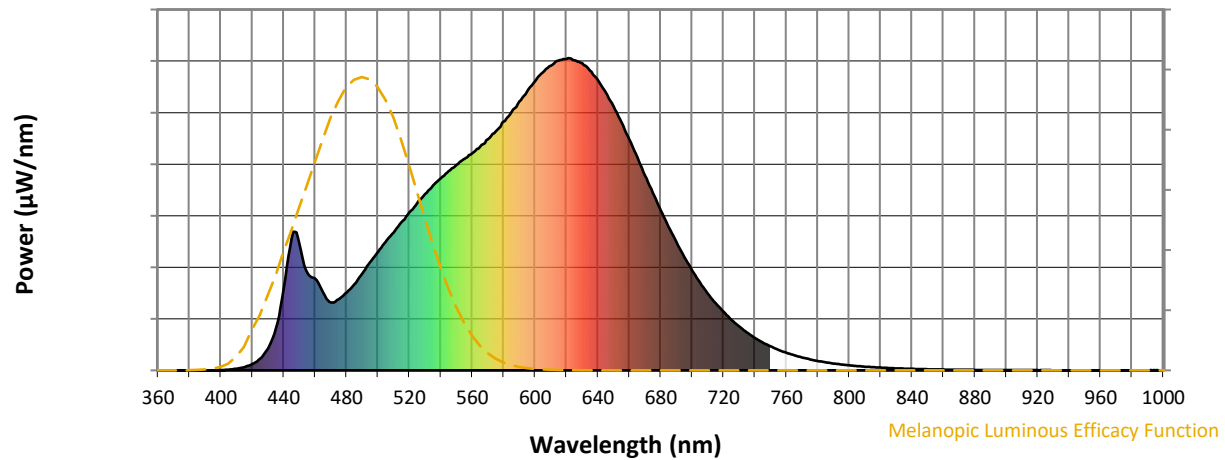
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.69

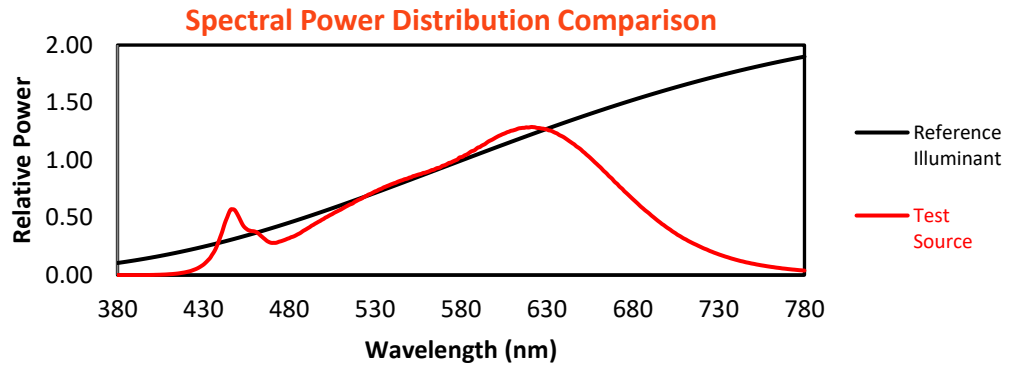
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

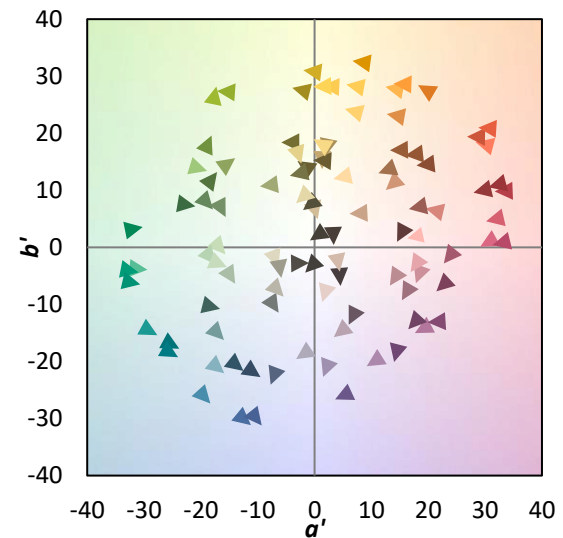
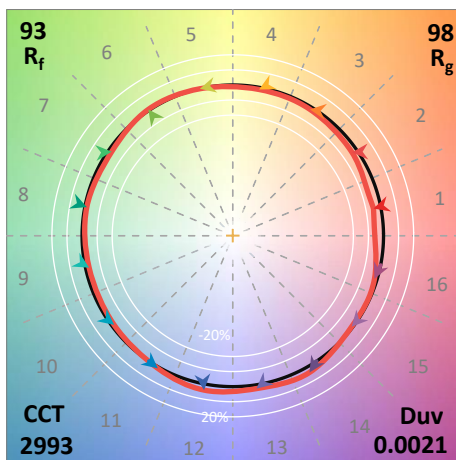
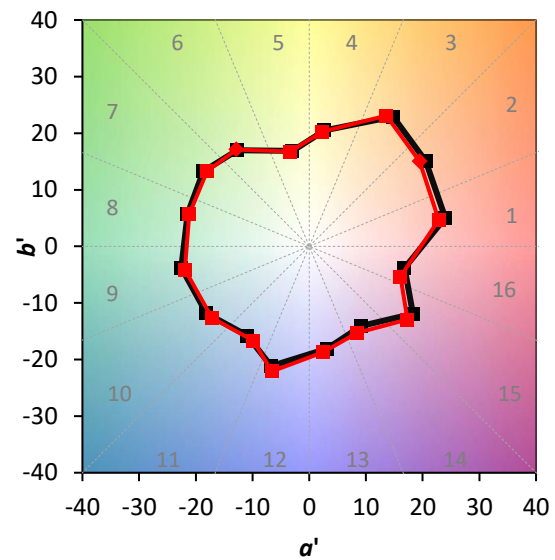
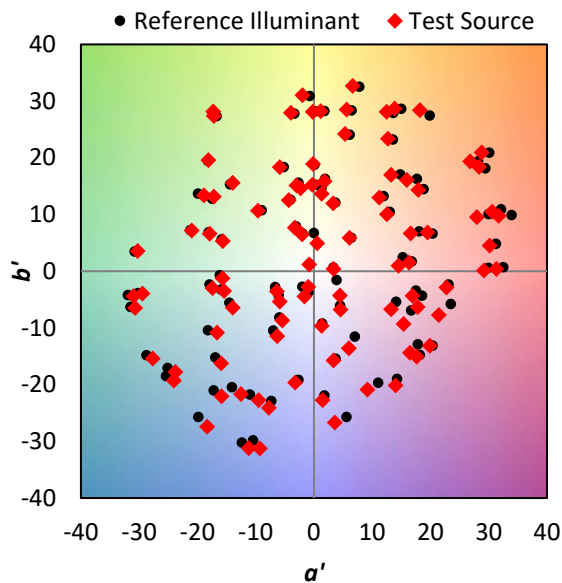
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $\text{CIE } R_a = 92.4$
 $R_9 = 58.2$

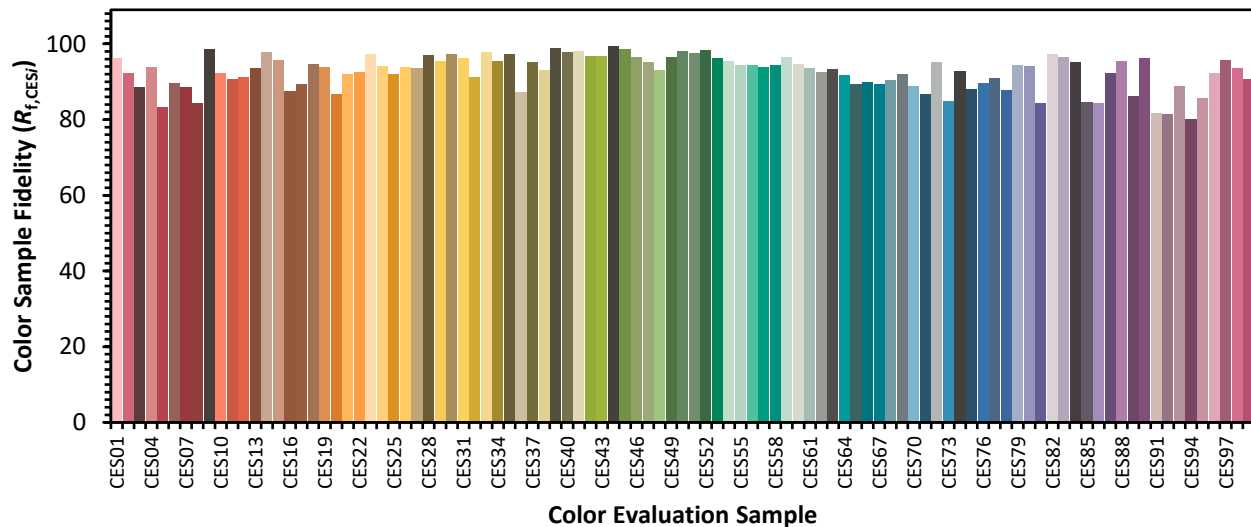


Color Vector Graphics

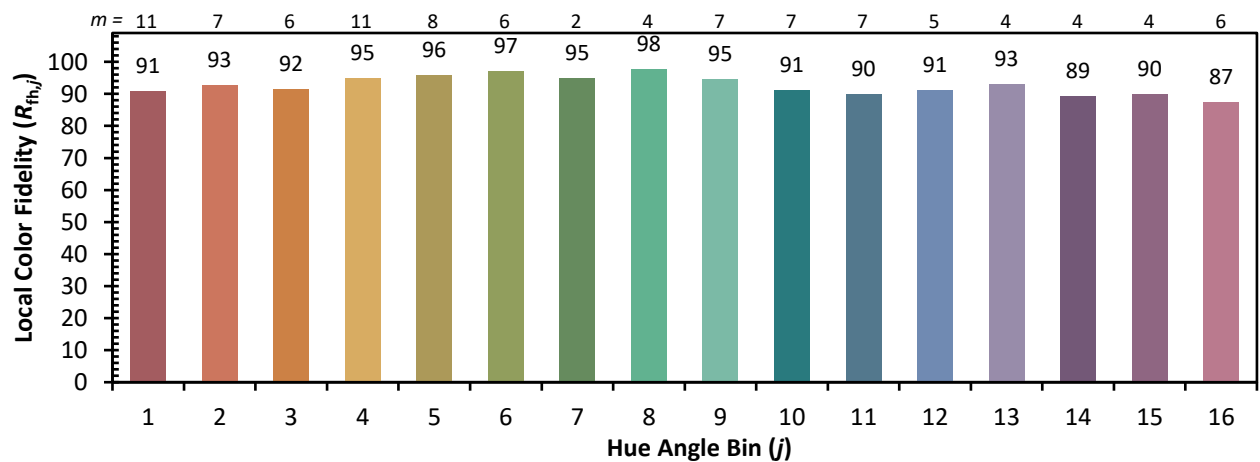
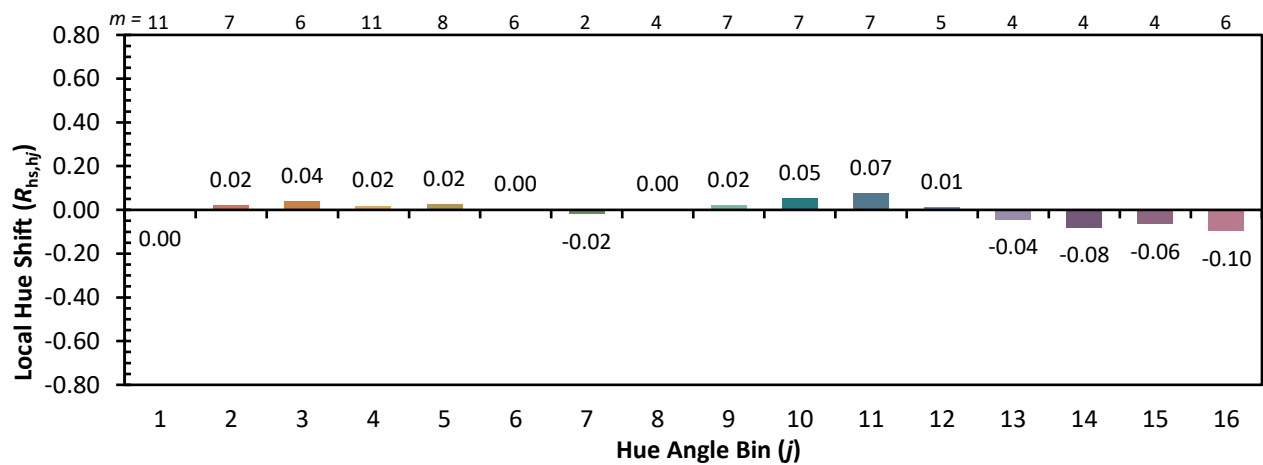
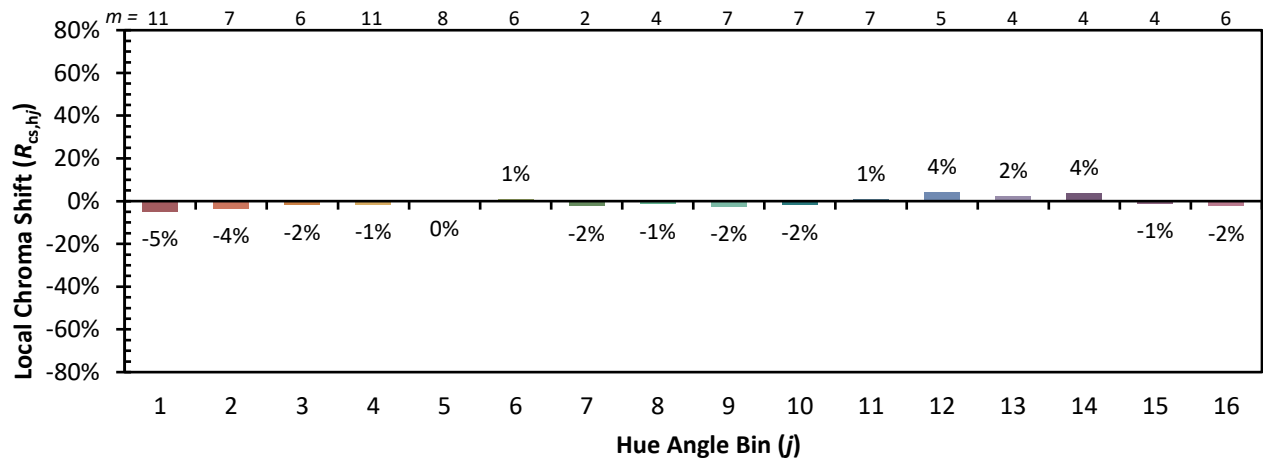


Individual Sample Fidelity Index ($R_{f,i}$)

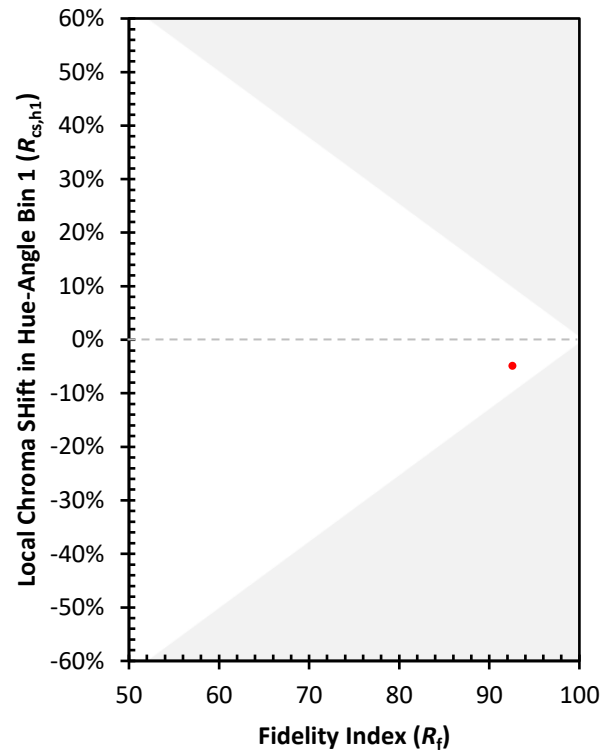
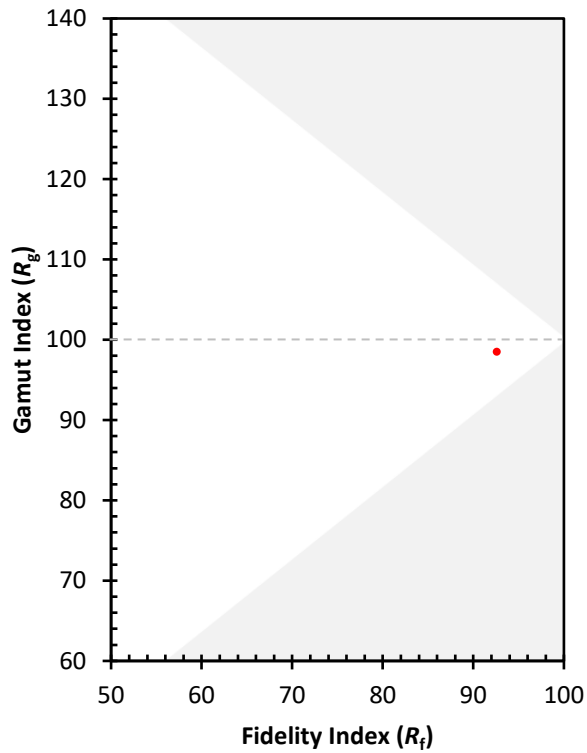
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)