

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: P1049827

Luminaire Tested: **GALN-SA2C-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049827
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9437.1 lumens
Efficiency: N/A
Efficacy: 98.1 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): 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

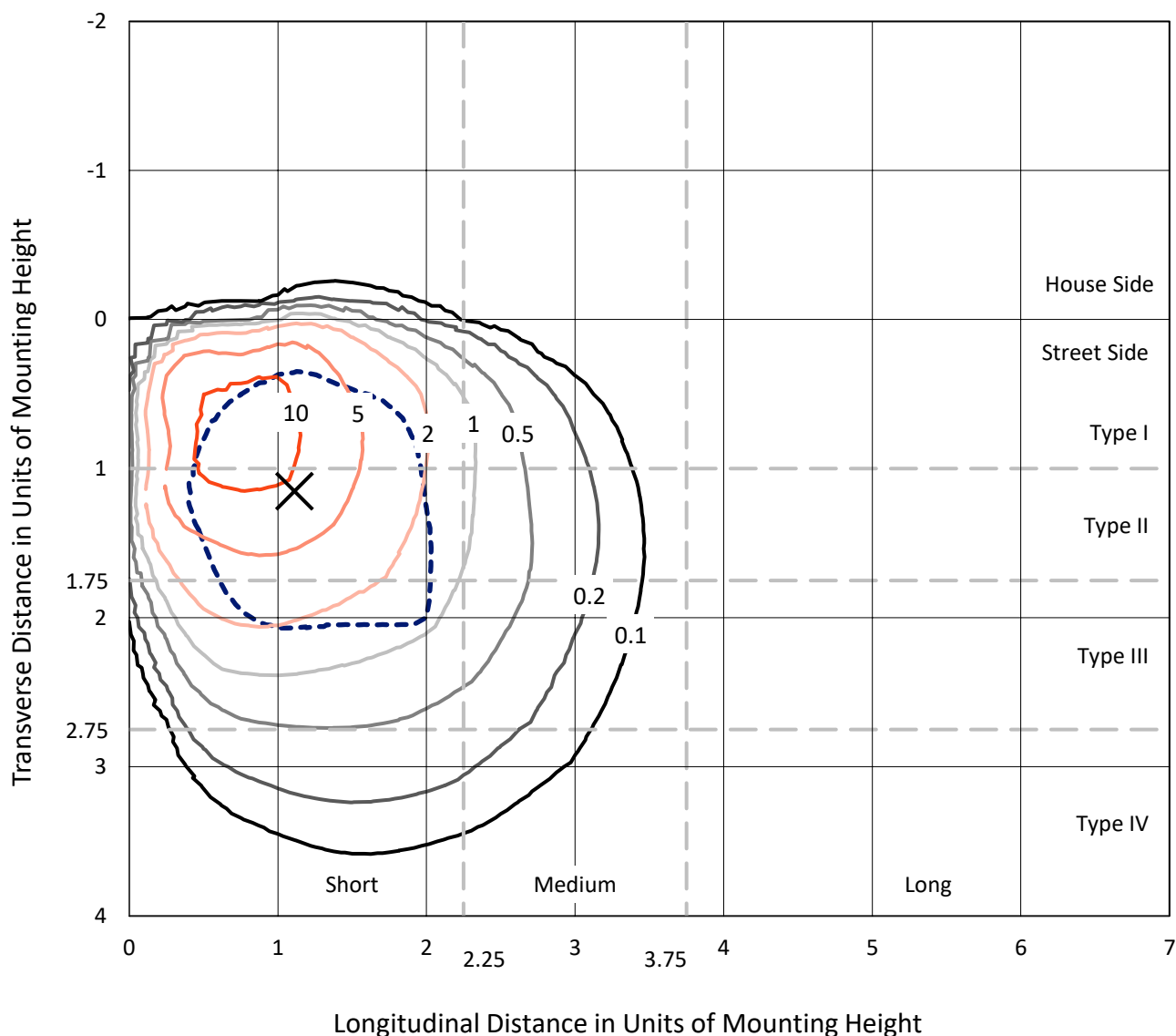
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

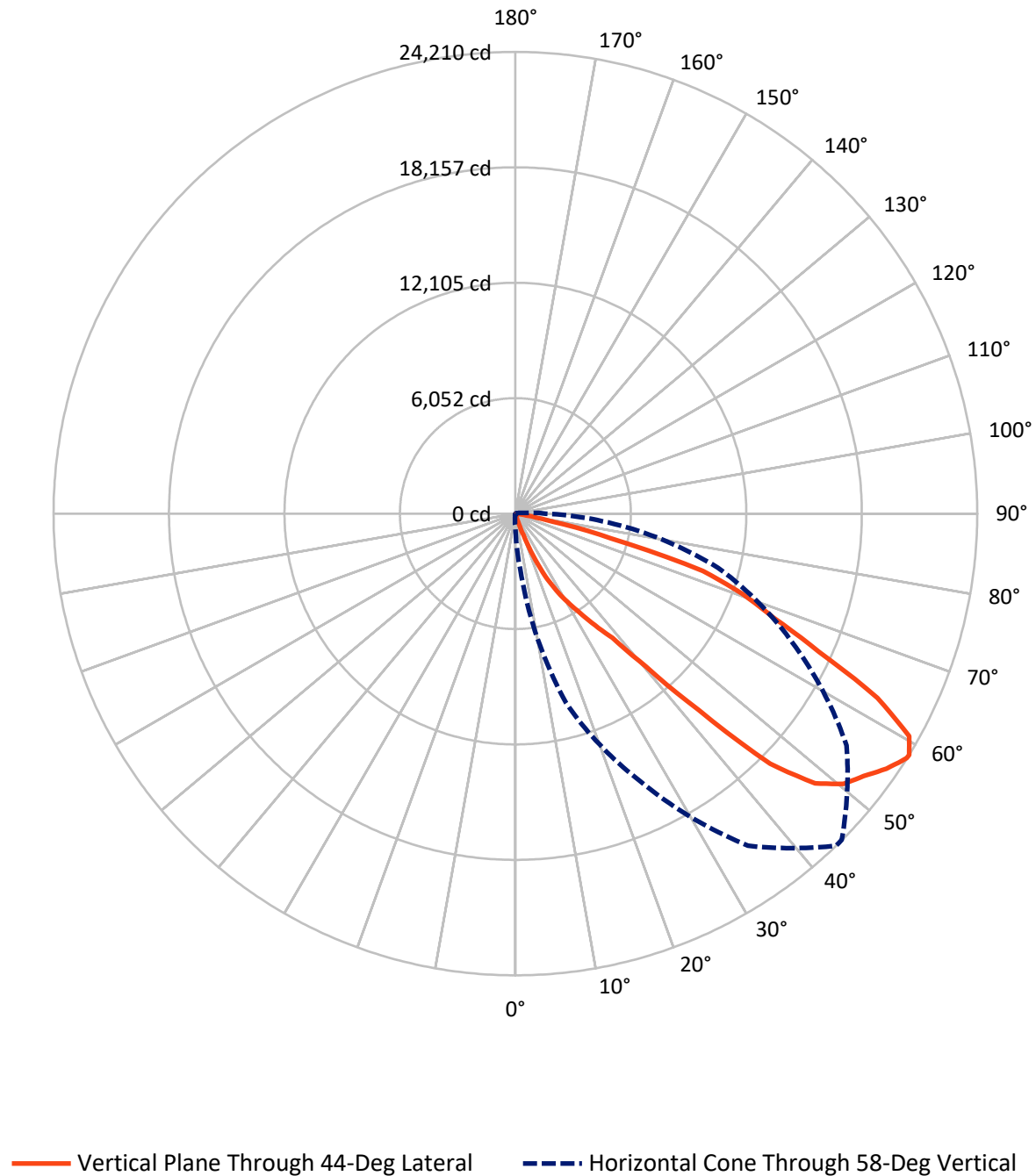


Based on 20 foot mounting height. Maximum calculated value = 16.4 fc

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	64.4	0.0	64.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9372.7	0.0	9372.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	9437.1	0.0	9437.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	20.7	0.2
20°-30°	223.6	2.4
30°-40°	661.2	7.0
40°-50°	1970.6	20.9
50°-60°	3126.9	33.1
60°-70°	2608.2	27.6
70°-80°	804.4	8.5
80°-90°	17.9	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°	9437.1	100.0
0°-180°	9437.1	100.0

Coefficient of Utilization



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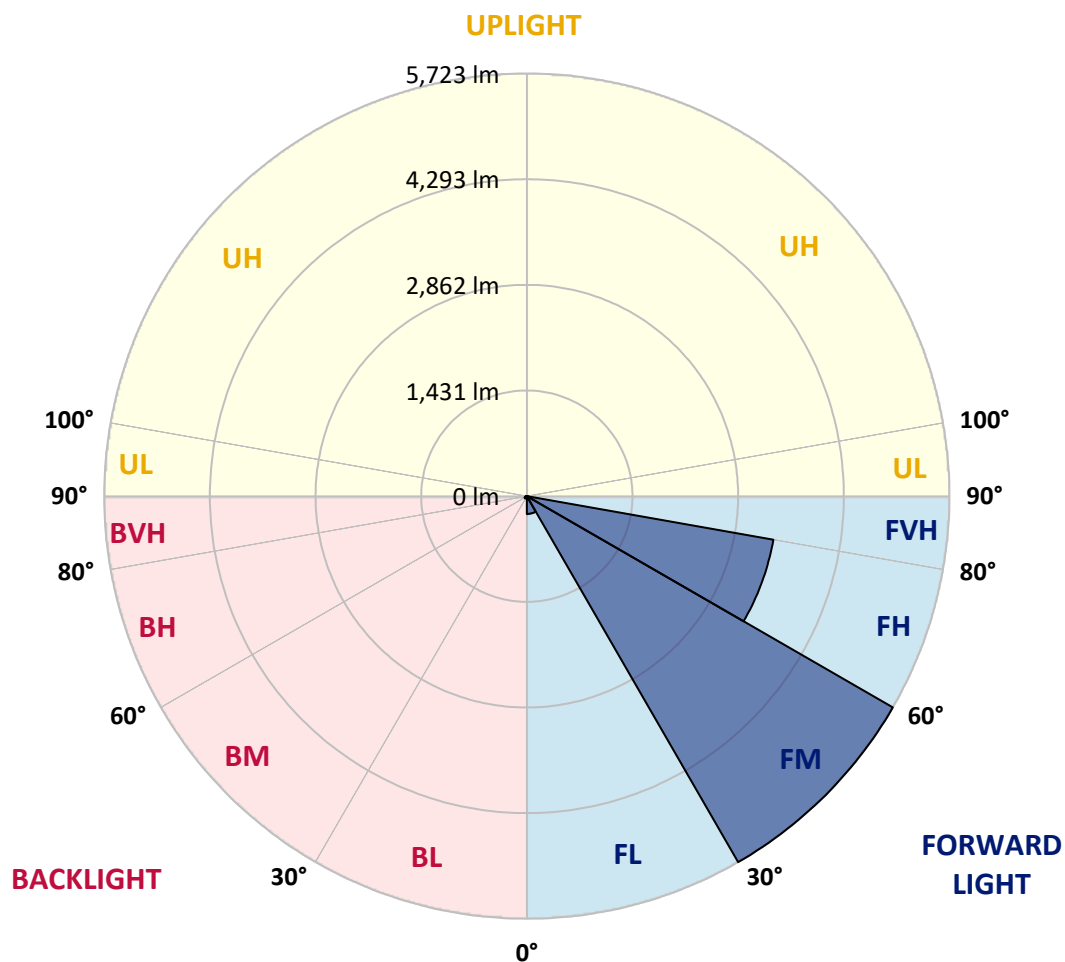
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.6	2.6			
FM	(30°-60°)	5723.4	60.6			
FH	(60°-80°)	3390.6	35.9			G2/5000
FVH	(80°-90°)	17.0	0.2			G1/100
BL	(0°-30°)	6.3	0.1	B0/110		
BM	(30°-60°)	35.3	0.4	B0/220		
BH	(60°-80°)	22.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
2.5°	53.5	53.5	51.3	48.5	45.6	42.8	42.1	40.6	39.9	39.2
5°	55.6	55.6	54.9	52.8	49.9	47.8	47.8	45.6	44.2	42.8
7.5°	57.0	57.7	59.2	58.5	57.0	54.9	54.9	53.5	51.3	47.8
10°	59.2	61.3	64.2	65.6	66.3	66.3	65.6	64.9	61.3	56.3
12.5°	61.3	65.6	72.7	79.8	84.1	89.8	89.1	87.7	78.4	67.7
15°	65.6	72.0	87.0	107.6	139.7	159.7	167.5	160.4	129.7	91.3
17.5°	70.6	81.3	126.2	225.3	369.3	437.7	479.1	445.6	295.1	173.2
20°	75.6	99.1	234.5	583.9	958.1	1182.0	1244.0	1147.0	736.4	330.1
22.5°	84.1	139.0	475.5	1206.9	2064.5	2400.3	2463.8	2153.7	1390.9	651.6
25°	101.9	201.7	819.8	1966.9	3081.1	3647.9	3621.5	3215.2	2256.3	1040.8
27.5°	127.6	293.7	1239.7	2794.6	4054.9	4554.7	4614.6	4112.0	3007.7	1530.6
30°	164.7	407.1	1690.3	3457.5	4835.6	5375.9	5385.9	4866.2	3680.0	1960.5
32.5°	200.3	514.0	2084.5	4098.4	5604.8	6197.2	6241.4	5601.9	4181.8	2408.2
35°	227.4	583.9	2483.7	4661.6	6380.4	7196.7	7193.8	6434.6	4776.4	2808.1
37.5°	229.6	653.7	2845.2	5237.6	7362.8	8276.7	8367.3	7530.3	5495.0	3302.8
40°	224.6	732.1	3302.8	6135.9	9132.9	10535.2	10615.0	9559.9	6936.5	4149.8
42.5°	230.3	868.3	4045.7	7794.8	12072.2	14086.1	14240.1	13130.8	9586.3	5877.8
45°	260.2	1124.2	5601.9	10570.1	16261.9	18717.1	18665.7	17068.1	12669.6	8508.4
47.5°	359.3	1750.9	7908.9	13271.3	18939.5	21125.9	21170.1	19217.5	14468.9	10530.9
50°	552.5	2679.1	9847.2	14699.2	20090.8	22284.4	22243.1	19986.7	15152.6	11526.8
52.5°	718.6	3350.6	10819.6	15200.4	20238.4	22856.9	22854.0	20189.2	15258.8	11612.4
55°	759.9	3401.2	10827.5	15227.4	20569.2	23606.1	23700.2	20687.5	15396.4	11238.8
57.5°	743.5	3011.3	10375.5	15384.3	21158.0	24185.7	24190.7	21170.1	15745.7	11010.0
58°	729.3	2950.0	10284.2	15473.4	21259.3	24209.9	24197.8	21192.2	16030.2	11001.4
60°	649.4	2561.4	9928.5	15700.8	21108.8	23712.3	23599.0	20709.6	15988.1	10913.7
62.5°	510.4	1998.2	9578.5	15437.8	19496.3	21303.5	21350.5	18335.0	14575.1	10402.6
65°	406.4	1489.2	8848.5	13541.4	16054.4	17494.5	17669.8	14909.5	12165.6	8808.5
67.5°	323.7	1076.5	7422.7	10781.1	12703.8	14600.8	14728.4	12517.7	9425.2	6749.0
70°	263.1	727.9	5123.6	7884.6	10478.1	12611.1	12619.0	10399.0	7034.9	4422.1
72.5°	233.1	504.0	2974.2	5750.2	8496.3	10276.4	10068.9	8438.5	5406.6	2619.2
75°	201.7	334.3	1458.6	3515.3	5151.4	5186.3	5265.4	3914.5	2702.6	1245.4
77.5°	166.1	237.4	574.6	960.3	1544.8	1977.6	2051.0	1554.1	899.0	306.5
80°	114.1	112.6	154.7	294.4	442.0	553.9	516.8	399.9	235.3	117.6
82.5°	49.2	53.5	69.9	84.1	68.4	66.3	63.4	40.6	31.4	24.2
85°	15.7	14.3	15.0	15.0	12.1	9.3	9.3	4.3	0.0	0.0
87.5°	7.8	6.4	6.4	5.7	3.6	1.4	0.7	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°
41.3	0°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
38.5	2.5°	37.8	37.8	36.4	34.9	34.2	32.8	32.1	31.4	30.7	29.9
41.3	5°	39.9	39.2	37.1	34.9	32.8	30.7	29.2	27.8	26.4	25.7
45.6	7.5°	43.5	42.1	37.8	34.2	31.4	28.5	27.1	25.0	23.5	21.4
50.6	10°	47.8	44.9	39.2	34.9	30.7	27.1	25.0	22.8	20.7	17.8
57.7	12.5°	53.5	48.5	41.3	34.2	29.2	25.0	22.8	20.0	17.8	15.7
67.0	15°	58.5	52.0	42.1	34.2	27.8	22.8	20.0	17.1	15.0	12.1
84.1	17.5°	65.6	54.9	41.3	32.1	25.7	20.0	17.1	15.0	11.4	7.1
124.8	20°	77.7	57.0	39.9	29.9	22.1	16.4	12.8	10.0	5.0	1.4
187.5	22.5°	97.0	62.7	38.5	27.1	19.2	12.8	8.6	3.6	0.0	0.0
285.2	25°	134.0	72.7	38.5	25.7	17.1	9.3	2.9	0.0	0.0	0.0
404.9	27.5°	178.2	86.3	38.5	22.1	13.5	5.0	0.0	0.0	0.0	0.0
551.8	30°	223.1	101.2	38.5	19.2	10.7	0.7	0.0	0.0	0.0	0.0
679.4	32.5°	265.9	114.1	39.2	16.4	7.1	0.0	0.0	0.0	0.0	0.0
856.2	35°	309.4	116.2	38.5	14.3	4.3	0.0	0.0	0.0	0.0	0.0
1072.9	37.5°	365.0	111.9	36.4	12.8	2.1	0.0	0.0	0.0	0.0	0.0
1411.5	40°	449.1	114.1	34.2	12.1	0.7	0.0	0.0	0.0	0.0	0.0
2015.4	42.5°	604.5	123.3	31.4	12.1	0.0	0.0	0.0	0.0	0.0	0.0
3210.2	45°	1045.1	165.4	28.5	12.8	0.0	0.0	0.0	0.0	0.0	0.0
4819.2	47.5°	1728.8	297.3	27.8	12.8	0.0	0.0	0.0	0.0	0.0	0.0
5805.1	50°	2206.4	374.3	29.2	13.5	0.0	0.0	0.0	0.0	0.0	0.0
5928.4	52.5°	2202.8	417.0	30.7	14.3	2.9	0.0	0.0	0.0	0.0	0.0
5464.3	55°	1958.3	424.9	32.8	15.7	9.3	0.0	0.0	0.0	0.0	0.0
4695.8	57.5°	1636.8	387.8	37.8	19.2	17.1	0.0	0.0	0.0	0.0	0.0
4575.4	58°	1579.8	370.7	39.2	20.0	18.5	0.0	0.0	0.0	0.0	0.0
3968.7	60°	1294.6	302.3	49.9	25.0	25.0	0.0	0.0	0.0	0.0	0.0
3253.7	62.5°	894.0	263.8	57.0	32.1	25.7	0.0	0.0	0.0	0.0	0.0
2398.9	65°	632.3	238.1	62.0	34.2	20.7	0.0	0.0	0.0	0.0	0.0
1704.5	67.5°	472.6	219.6	68.4	34.9	10.7	0.0	0.0	0.0	0.0	0.0
1069.3	70°	362.2	206.0	84.1	37.1	2.9	0.0	0.0	0.0	0.0	0.0
637.3	72.5°	295.1	190.3	101.9	38.5	0.0	0.0	0.0	0.0	0.0	0.0
382.1	75°	244.5	171.8	98.4	42.1	0.0	0.0	0.0	0.0	0.0	0.0
203.9	77.5°	162.5	133.3	89.8	42.1	0.0	0.0	0.0	0.0	0.0	0.0
72.7	80°	57.0	52.8	69.9	37.1	0.0	0.0	0.0	0.0	0.0	0.0
15.0	82.5°	8.6	7.1	10.0	12.8	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°
41.3	0°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
29.2	2.5°	29.2	29.2	28.5	29.2	29.2	30.7	34.2	39.2	44.9	47.1
25.0	5°	24.2	23.5	22.8	22.8	22.8	25.0	27.8	33.5	39.9	42.8
20.7	7.5°	20.0	19.2	18.5	17.8	17.8	19.2	22.8	29.2	35.6	38.5
17.1	10°	16.4	15.0	14.3	13.5	13.5	15.0	18.5	25.0	32.1	34.9
14.3	12.5°	13.5	11.4	10.0	9.3	8.6	10.7	14.3	20.0	27.8	31.4
10.7	15°	9.3	7.1	5.0	4.3	3.6	5.7	9.3	15.7	23.5	27.8
5.7	17.5°	5.0	2.1	0.7	0.0	0.0	1.4	4.3	11.4	19.2	22.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.3	17.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.6	12.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	6.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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	2.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.7
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°
41.3	0°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
49.2	2.5°	50.6	49.9	48.5	47.1	47.1	47.1	49.2	51.3	53.5	53.5
44.2	5°	47.1	47.1	46.3	44.9	44.9	45.6	48.5	52.0	54.9	55.6
40.6	7.5°	43.5	44.9	43.5	42.8	43.5	44.2	47.1	51.3	55.6	57.0
37.8	10°	41.3	42.1	42.1	41.3	41.3	42.8	45.6	51.3	57.0	59.2
34.2	12.5°	38.5	39.9	39.2	39.2	39.2	40.6	44.2	50.6	58.5	61.3
30.7	15°	35.6	37.8	37.8	37.1	37.1	37.8	42.8	49.9	60.6	65.6
26.4	17.5°	32.8	34.9	35.6	34.2	34.2	35.6	40.6	49.9	62.0	70.6
21.4	20°	27.1	30.7	32.8	30.7	30.7	32.1	37.1	47.1	62.7	75.6
15.7	22.5°	21.4	25.0	27.8	27.1	27.1	27.8	34.2	44.9	63.4	84.1
9.3	25°	15.7	19.2	21.4	22.8	22.8	25.0	31.4	43.5	66.3	101.9
4.3	27.5°	9.3	13.5	16.4	17.8	18.5	21.4	29.2	42.1	71.3	127.6
0.0	30°	4.3	7.8	11.4	14.3	14.3	19.2	27.1	40.6	77.7	164.7
0.0	32.5°	0.0	3.6	5.7	10.0	10.7	15.7	25.0	39.2	87.0	200.3
0.0	35°	0.0	0.0	2.9	7.8	7.8	12.8	22.8	37.8	101.2	227.4
0.0	37.5°	0.0	0.0	0.0	5.7	6.4	11.4	22.1	37.1	104.1	229.6
0.0	40°	0.0	0.0	0.0	4.3	5.0	10.7	22.1	37.8	94.1	224.6
0.0	42.5°	0.0	0.0	0.0	2.9	3.6	10.7	22.1	39.2	84.8	230.3
0.0	45°	0.0	0.0	0.0	2.1	2.9	11.4	21.4	38.5	79.8	260.2
0.0	47.5°	0.0	0.0	0.0	2.9	4.3	11.4	20.7	37.8	80.6	359.3
0.0	50°	0.0	0.0	0.0	3.6	5.0	11.4	21.4	36.4	88.4	552.5
0.0	52.5°	0.0	0.0	0.0	2.9	4.3	12.8	23.5	35.6	96.2	718.6
0.0	55°	0.0	0.0	0.0	0.7	2.1	16.4	25.7	35.6	108.4	759.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	18.5	29.2	37.8	128.3	743.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	18.5	29.9	37.8	129.7	729.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	18.5	32.8	42.1	139.7	649.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	15.7	39.2	52.8	145.4	510.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.8	46.3	57.7	149.7	406.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.1	47.8	58.5	151.8	323.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.8	47.1	62.7	159.0	263.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	14.3	42.8	69.2	159.0	233.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	15.0	39.9	77.7	144.7	201.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	14.3	39.2	90.5	129.0	166.1
0.0	80°	1.4	2.1	2.1	1.4	1.4	12.1	38.5	92.0	109.8	114.1
0.7	82.5°	4.3	5.7	5.0	3.6	3.6	10.7	34.2	77.0	57.0	49.2
4.3	85°	7.8	9.3	9.3	7.8	7.8	10.0	21.4	27.8	19.2	15.7
7.8	87.5°	10.7	12.1	12.1	10.7	10.7	10.0	9.3	8.6	7.8	7.8
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

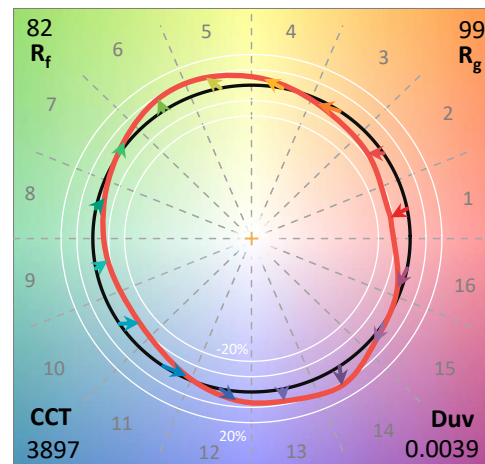
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

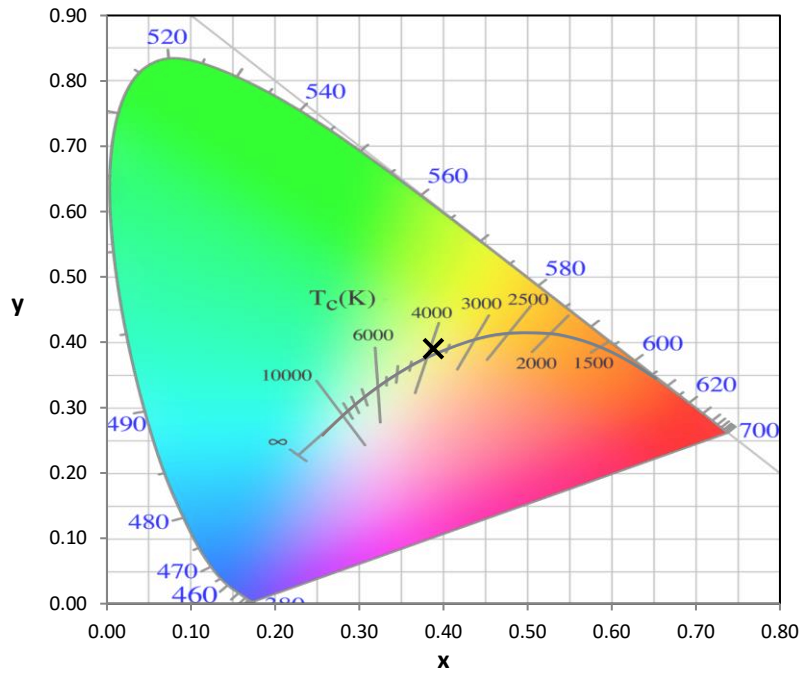
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

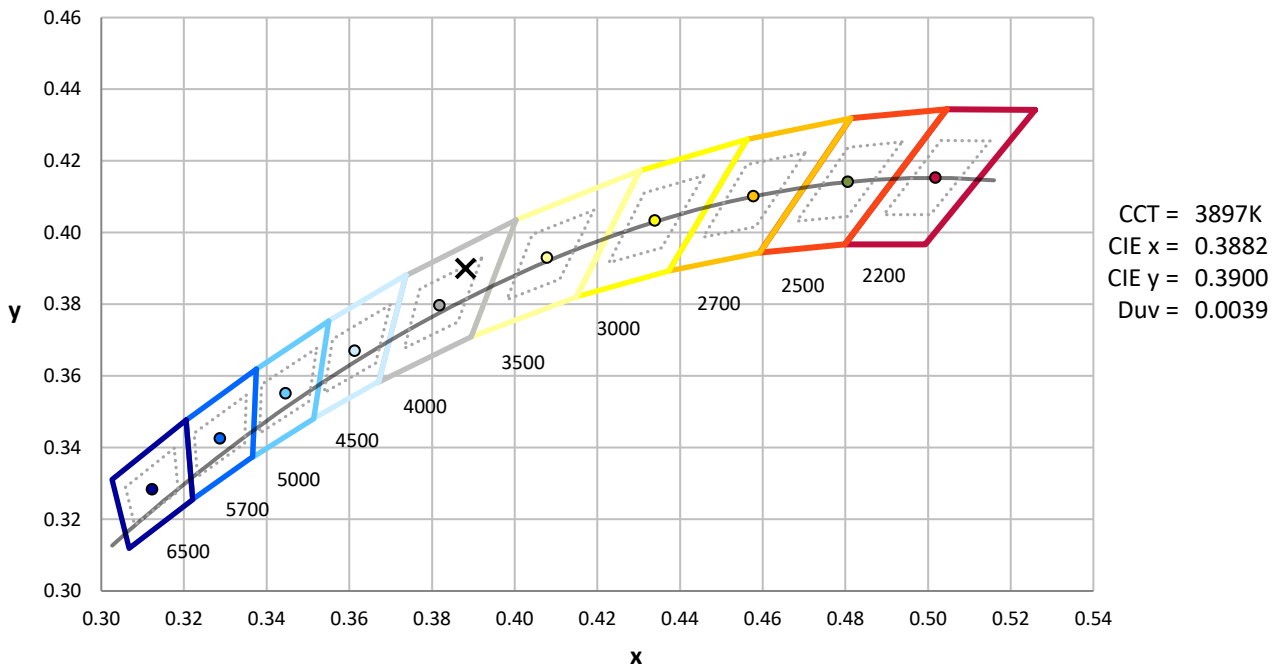
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



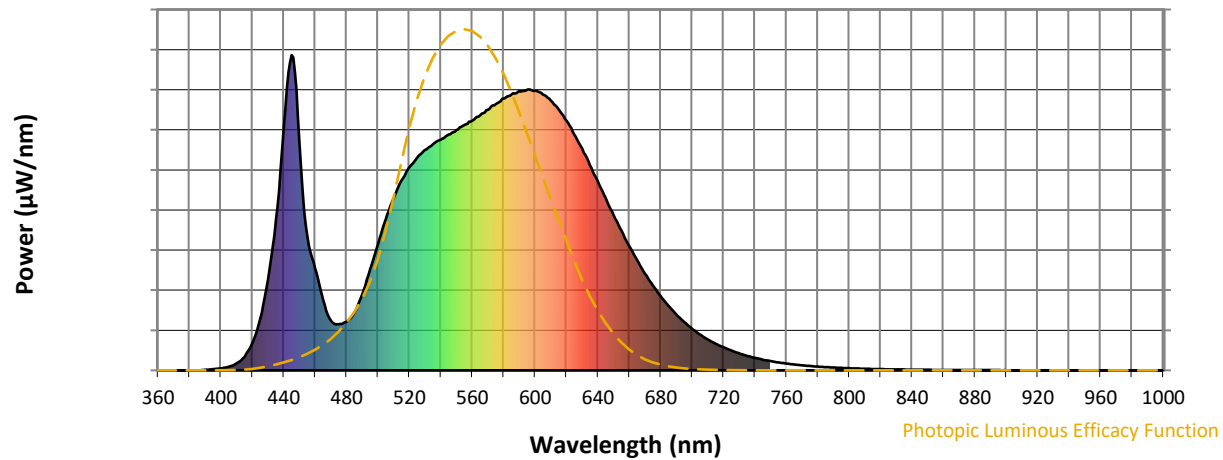
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

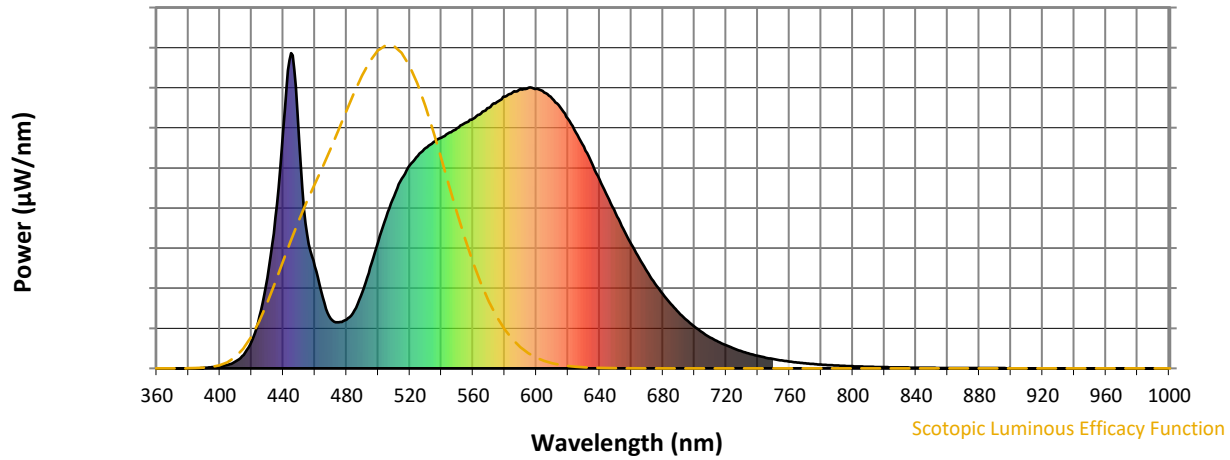


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



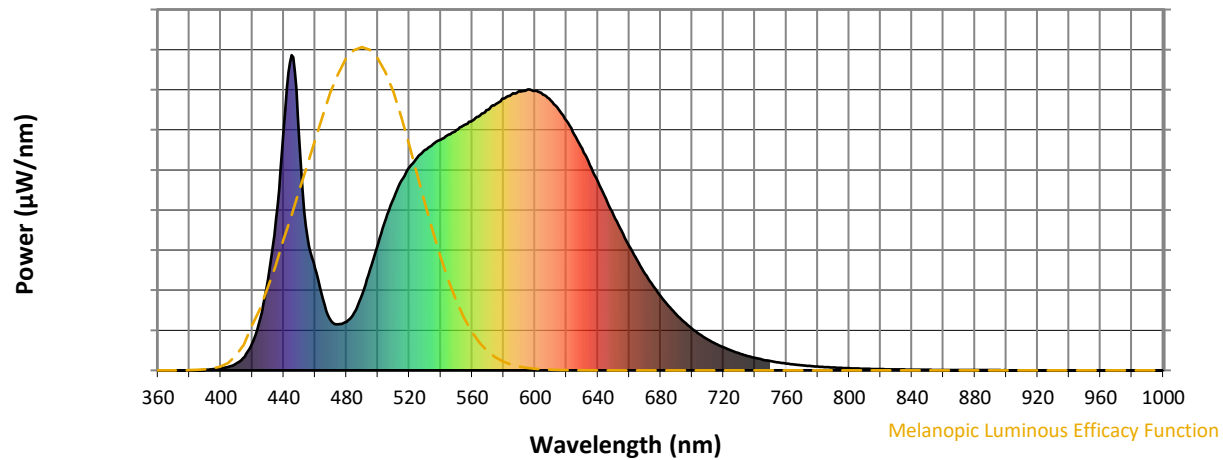
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

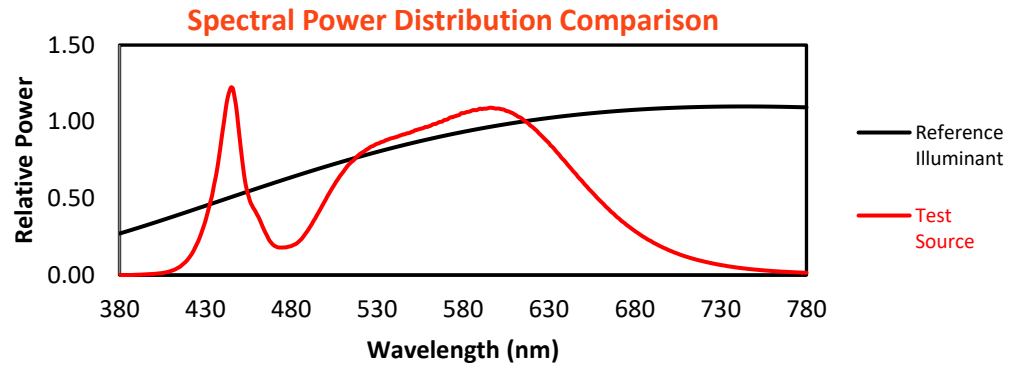
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

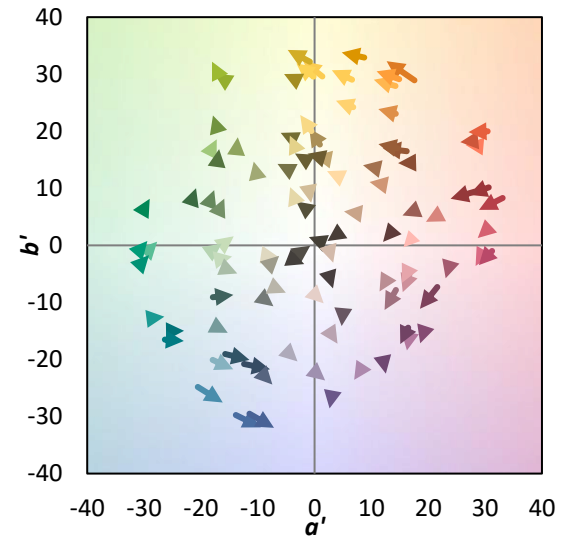
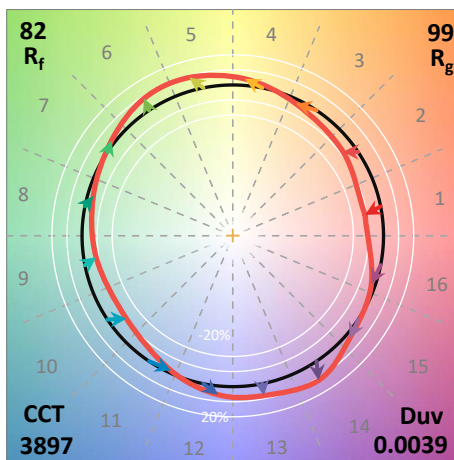
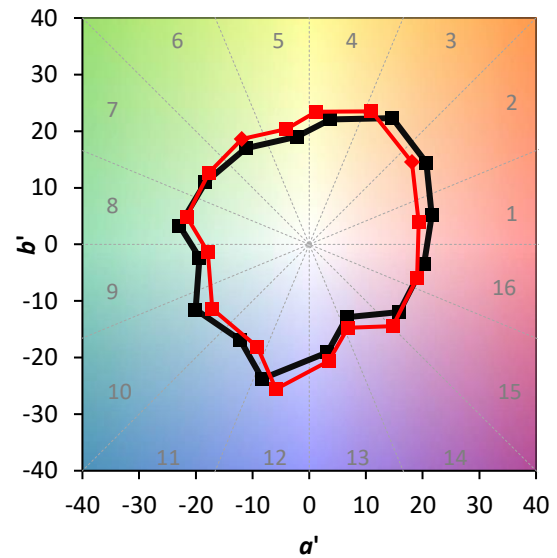
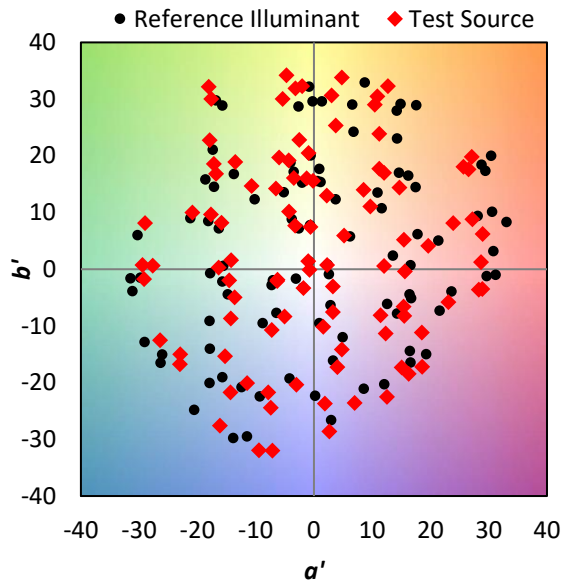
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

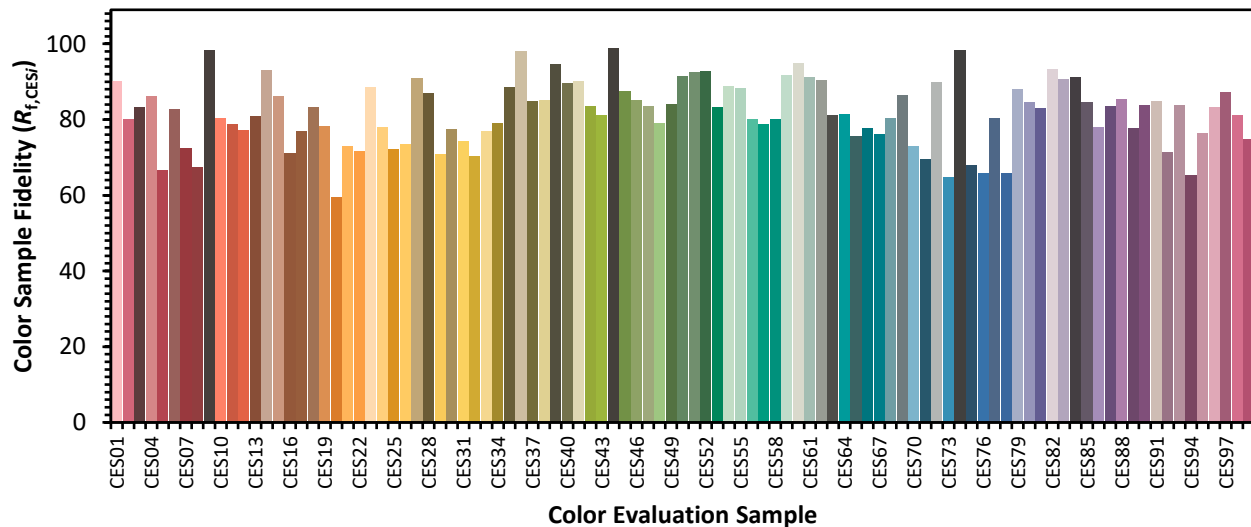


Color Vector Graphics

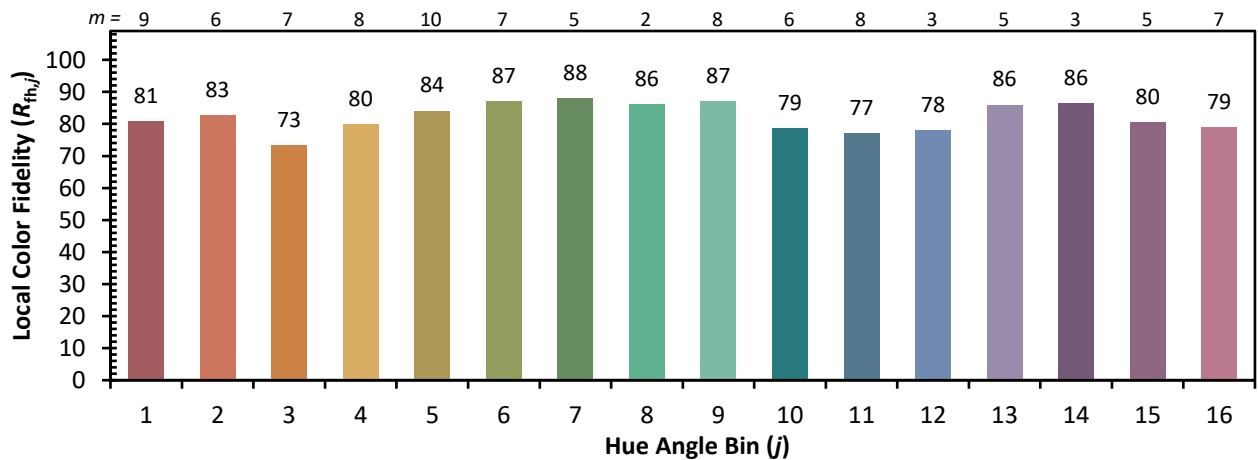
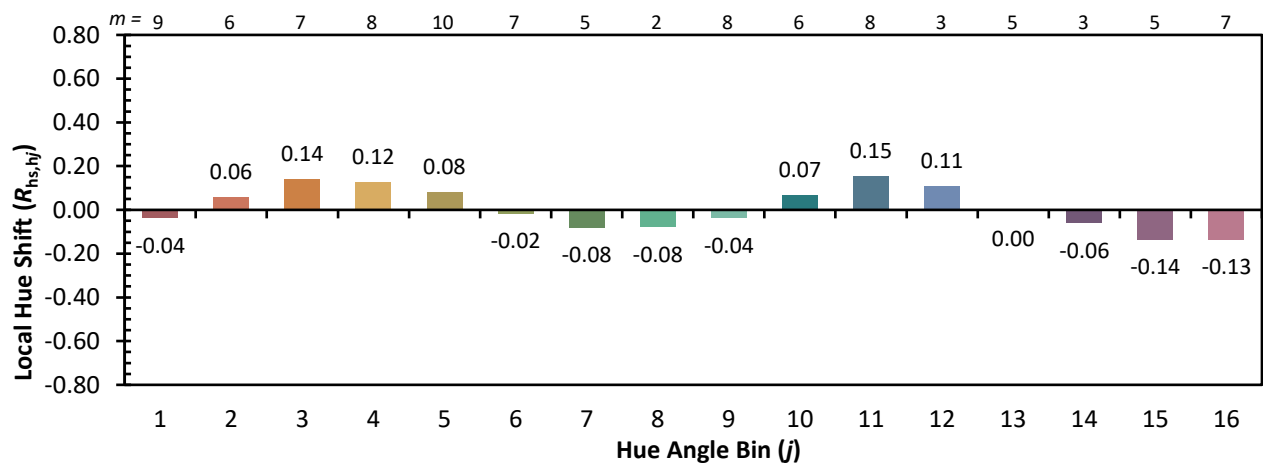
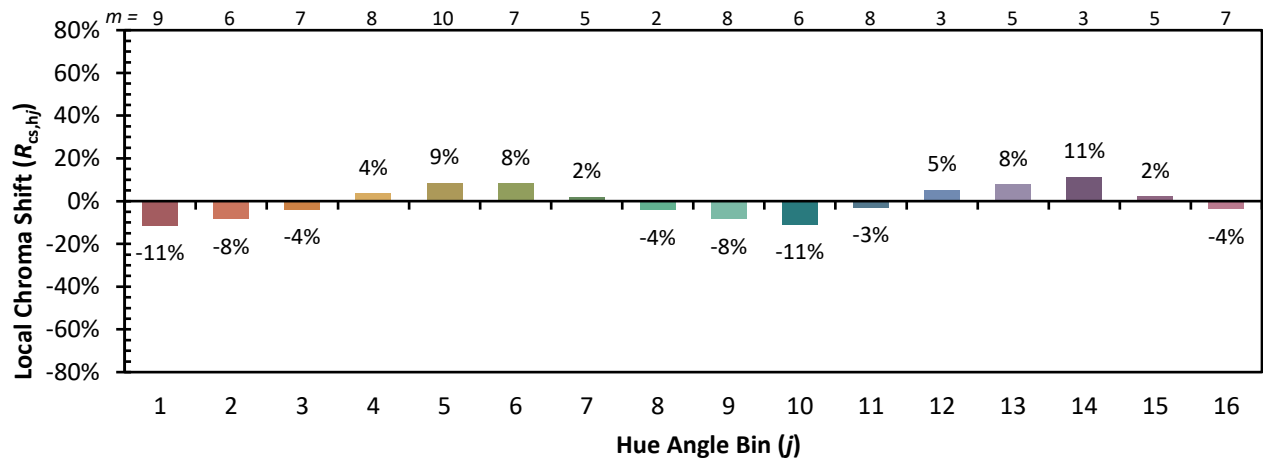


Individual Sample Fidelity Index ($R_{f,i}$)

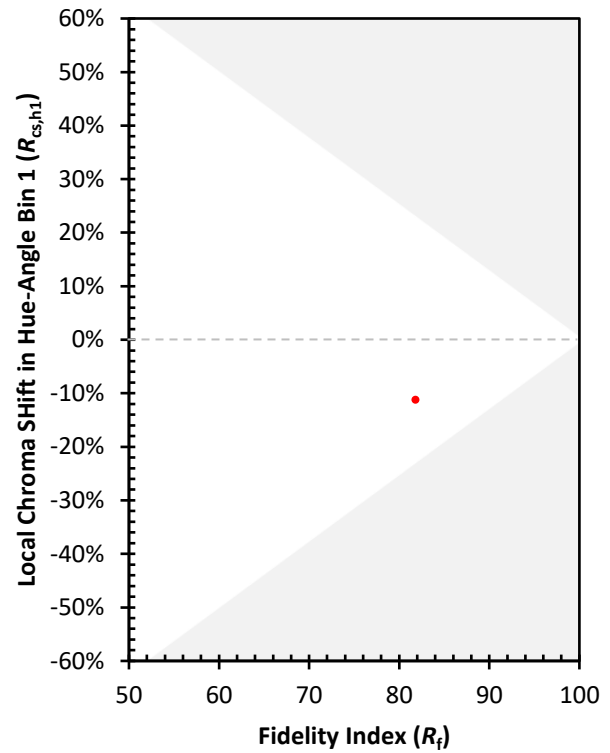
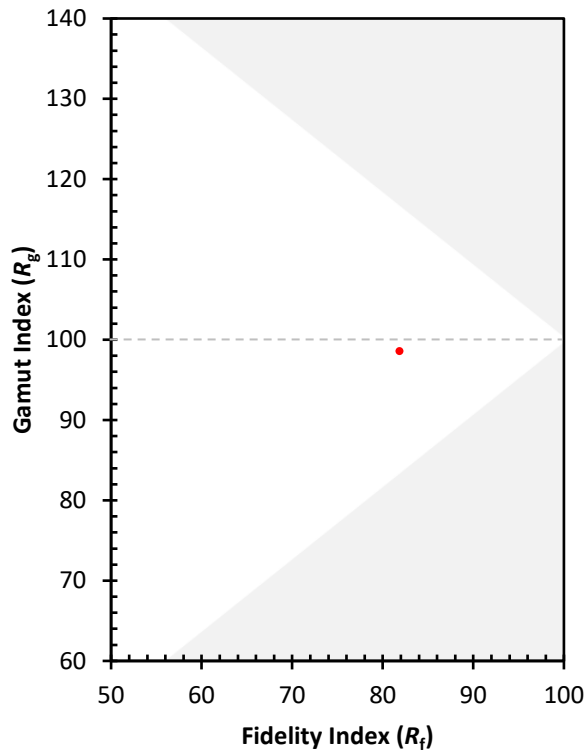
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)