

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: P1049862

Luminaire Tested: **GALN-SA2B-850-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049862
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7611.1 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

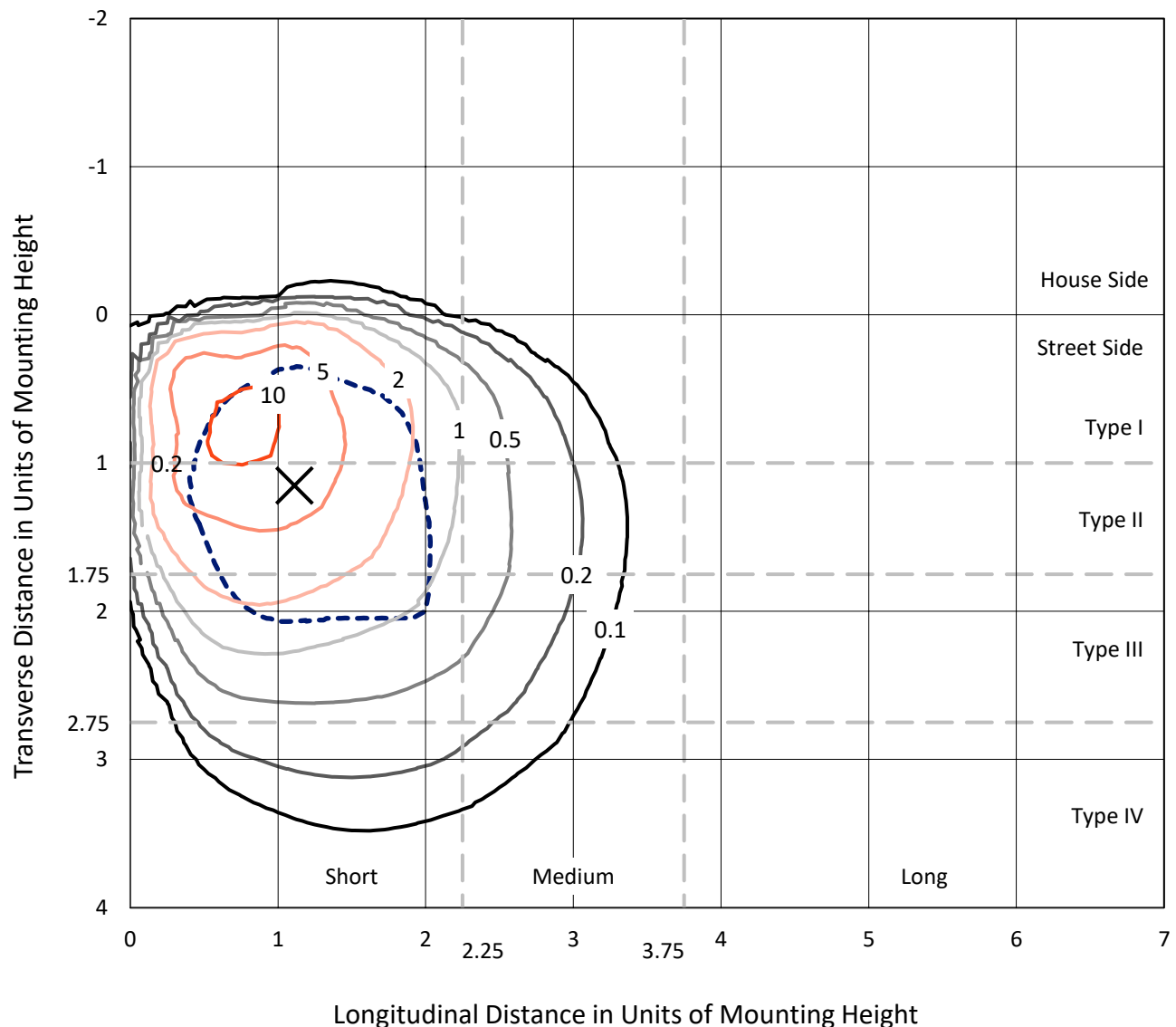
Input Watts (W): 72.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

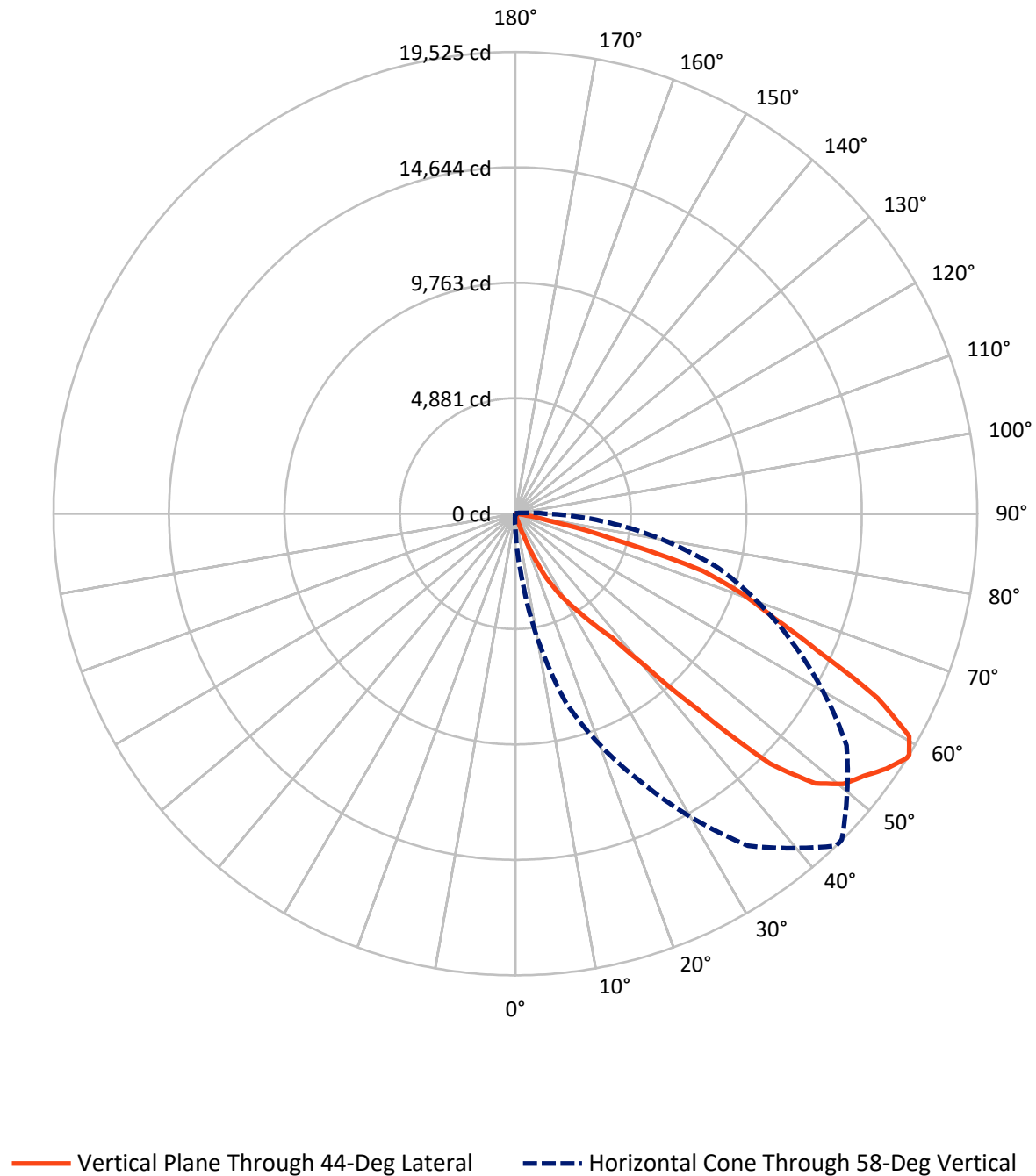
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	52.0	0.0	52.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7559.1	0.0	7559.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	7611.1	0.0	7611.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.0
10°-20°	16.7	0.2
20°-30°	180.3	2.4
30°-40°	533.2	7.0
40°-50°	1589.3	20.9
50°-60°	2521.9	33.1
60°-70°	2103.5	27.6
70°-80°	648.8	8.5
80°-90°	14.4	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°	7611.1	100.0
0°-180°	7611.1	100.0



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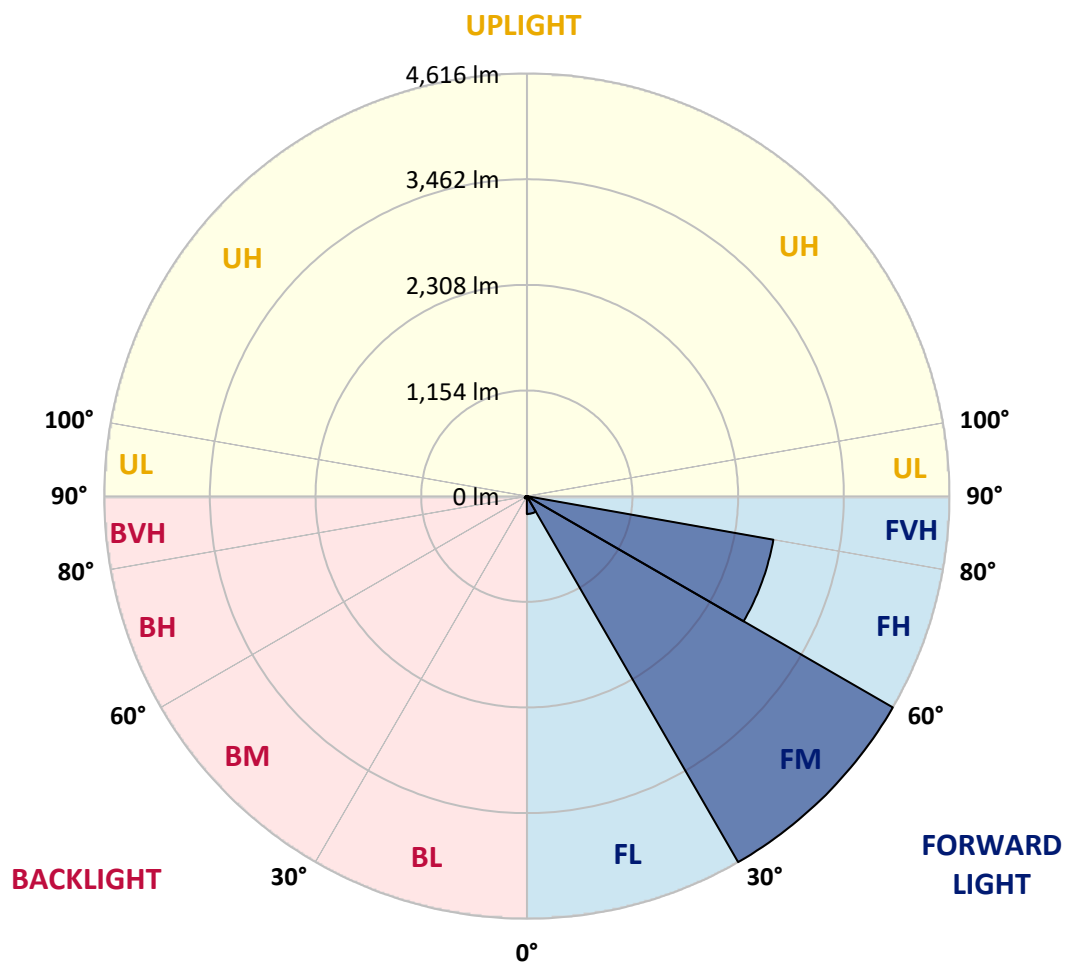
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.9	2.6			
FM	(30°-60°)	4616.0	60.6			
FH	(60°-80°)	2734.5	35.9			G2/5000
FVH	(80°-90°)	13.7	0.2			G1/100
BL	(0°-30°)	5.1	0.1	B0/110		
BM	(30°-60°)	28.4	0.4	B0/220		
BH	(60°-80°)	17.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
2.5°	43.1	43.1	41.4	39.1	36.8	34.5	33.9	32.8	32.2	31.6
5°	44.8	44.8	44.3	42.5	40.2	38.5	38.5	36.8	35.6	34.5
7.5°	46.0	46.6	47.7	47.1	46.0	44.3	44.3	43.1	41.4	38.5
10°	47.7	49.4	51.7	52.9	53.5	53.5	52.9	52.3	49.4	45.4
12.5°	49.4	52.9	58.6	64.4	67.8	72.4	71.9	70.7	63.2	54.6
15°	52.9	58.1	70.1	86.8	112.7	128.8	135.1	129.4	104.6	73.6
17.5°	56.9	65.5	101.8	181.7	297.8	353.0	386.4	359.3	238.0	139.7
20°	60.9	79.9	189.2	470.9	772.7	953.3	1003.3	925.1	593.9	266.2
22.5°	67.8	112.1	383.5	973.4	1665.1	1935.9	1987.0	1736.9	1121.7	525.5
25°	82.2	162.7	661.2	1586.3	2484.9	2942.0	2920.8	2593.0	1819.7	839.4
27.5°	102.9	236.9	999.8	2253.8	3270.3	3673.4	3721.7	3316.3	2425.7	1234.4
30°	132.8	328.3	1363.2	2788.5	3899.9	4335.7	4343.8	3924.6	2967.9	1581.1
32.5°	161.6	414.5	1681.2	3305.4	4520.3	4998.1	5033.7	4518.0	3372.7	1942.2
35°	183.4	470.9	2003.1	3759.6	5145.8	5804.1	5801.8	5189.5	3852.2	2264.7
37.5°	185.1	527.2	2294.6	4224.2	5938.1	6675.2	6748.2	6073.2	4431.7	2663.8
40°	181.1	590.5	2663.8	4948.6	7365.7	8496.6	8561.0	7710.1	5594.3	3346.8
42.5°	185.7	700.3	3262.9	6286.5	9736.2	11360.5	11484.7	10590.0	7731.4	4740.5
45°	209.9	906.7	4518.0	8524.8	13115.2	15095.4	15054.0	13765.5	10218.1	6862.1
47.5°	289.8	1412.1	6378.5	10703.3	15274.8	17038.1	17073.8	15499.0	11669.2	8493.2
50°	445.6	2160.7	7941.8	11854.9	16203.3	17972.4	17939.1	16119.4	12220.6	9296.4
52.5°	579.6	2702.3	8726.1	12259.1	16322.3	18434.1	18431.8	16282.7	12306.3	9365.4
55°	612.9	2743.1	8732.4	12281.0	16589.1	19038.4	19114.3	16684.5	12417.2	9064.1
57.5°	599.7	2428.6	8367.9	12407.5	17064.0	19505.8	19509.9	17073.8	12699.0	8879.6
58°	588.2	2379.2	8294.3	12479.3	17145.7	19525.4	19515.6	17091.6	12928.4	8872.7
60°	523.8	2065.8	8007.4	12662.8	17024.3	19124.1	19032.6	16702.4	12894.5	8801.9
62.5°	411.7	1611.6	7725.1	12450.6	15723.8	17181.3	17219.2	14787.2	11754.9	8389.7
65°	327.7	1201.1	7136.3	10921.2	12947.9	14109.3	14250.8	12024.6	9811.6	7104.1
67.5°	261.0	868.2	5986.4	8695.0	10245.7	11775.6	11878.5	10095.6	7601.4	5443.1
70°	212.2	587.0	4132.2	6359.0	8450.7	10170.9	10177.2	8386.8	5673.6	3566.4
72.5°	188.0	406.5	2398.7	4637.6	6852.3	8287.9	8120.6	6805.7	4360.4	2112.4
75°	162.7	269.7	1176.4	2835.1	4154.6	4182.8	4246.6	3157.1	2179.6	1004.4
77.5°	134.0	191.5	463.4	774.5	1245.9	1594.9	1654.1	1253.4	725.0	247.2
80°	92.0	90.8	124.8	237.5	356.5	446.7	416.8	322.5	189.7	94.9
82.5°	39.7	43.1	56.3	67.8	55.2	53.5	51.2	32.8	25.3	19.5
85°	12.6	11.5	12.1	12.1	9.8	7.5	7.5	3.4	0.0	0.0
87.5°	6.3	5.2	5.2	4.6	2.9	1.1	0.6	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°
33.3	0°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
31.0	2.5°	30.5	30.5	29.3	28.2	27.6	26.4	25.9	25.3	24.7	24.1
33.3	5°	32.2	31.6	29.9	28.2	26.4	24.7	23.6	22.4	21.3	20.7
36.8	7.5°	35.1	33.9	30.5	27.6	25.3	23.0	21.8	20.1	19.0	17.2
40.8	10°	38.5	36.2	31.6	28.2	24.7	21.8	20.1	18.4	16.7	14.4
46.6	12.5°	43.1	39.1	33.3	27.6	23.6	20.1	18.4	16.1	14.4	12.6
54.0	15°	47.1	42.0	33.9	27.6	22.4	18.4	16.1	13.8	12.1	9.8
67.8	17.5°	52.9	44.3	33.3	25.9	20.7	16.1	13.8	12.1	9.2	5.7
100.6	20°	62.7	46.0	32.2	24.1	17.8	13.2	10.3	8.0	4.0	1.1
151.2	22.5°	78.2	50.6	31.0	21.8	15.5	10.3	6.9	2.9	0.0	0.0
230.0	25°	108.1	58.6	31.0	20.7	13.8	7.5	2.3	0.0	0.0	0.0
326.6	27.5°	143.7	69.6	31.0	17.8	10.9	4.0	0.0	0.0	0.0	0.0
445.0	30°	180.0	81.6	31.0	15.5	8.6	0.6	0.0	0.0	0.0	0.0
547.9	32.5°	214.5	92.0	31.6	13.2	5.7	0.0	0.0	0.0	0.0	0.0
690.5	35°	249.5	93.7	31.0	11.5	3.4	0.0	0.0	0.0	0.0	0.0
865.3	37.5°	294.4	90.3	29.3	10.3	1.7	0.0	0.0	0.0	0.0	0.0
1138.4	40°	362.2	92.0	27.6	9.8	0.6	0.0	0.0	0.0	0.0	0.0
1625.4	42.5°	487.6	99.5	25.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0
2589.0	45°	842.9	133.4	23.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0
3886.7	47.5°	1394.3	239.8	22.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0
4681.8	50°	1779.5	301.9	23.6	10.9	0.0	0.0	0.0	0.0	0.0	0.0
4781.3	52.5°	1776.6	336.3	24.7	11.5	2.3	0.0	0.0	0.0	0.0	0.0
4407.0	55°	1579.4	342.7	26.4	12.6	7.5	0.0	0.0	0.0	0.0	0.0
3787.2	57.5°	1320.1	312.8	30.5	15.5	13.8	0.0	0.0	0.0	0.0	0.0
3690.0	58°	1274.1	299.0	31.6	16.1	14.9	0.0	0.0	0.0	0.0	0.0
3200.8	60°	1044.1	243.8	40.2	20.1	20.1	0.0	0.0	0.0	0.0	0.0
2624.1	62.5°	721.0	212.7	46.0	25.9	20.7	0.0	0.0	0.0	0.0	0.0
1934.7	65°	510.0	192.0	50.0	27.6	16.7	0.0	0.0	0.0	0.0	0.0
1374.7	67.5°	381.2	177.1	55.2	28.2	8.6	0.0	0.0	0.0	0.0	0.0
862.4	70°	292.1	166.2	67.8	29.9	2.3	0.0	0.0	0.0	0.0	0.0
514.0	72.5°	238.0	153.5	82.2	31.0	0.0	0.0	0.0	0.0	0.0	0.0
308.2	75°	197.2	138.6	79.3	33.9	0.0	0.0	0.0	0.0	0.0	0.0
164.4	77.5°	131.1	107.5	72.4	33.9	0.0	0.0	0.0	0.0	0.0	0.0
58.6	80°	46.0	42.5	56.3	29.9	0.0	0.0	0.0	0.0	0.0	0.0
12.1	82.5°	6.9	5.7	8.0	10.3	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°
33.3	0°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
23.6	2.5°	23.6	23.6	23.0	23.6	23.6	24.7	27.6	31.6	36.2	37.9
20.1	5°	19.5	19.0	18.4	18.4	18.4	20.1	22.4	27.0	32.2	34.5
16.7	7.5°	16.1	15.5	14.9	14.4	14.4	15.5	18.4	23.6	28.7	31.0
13.8	10°	13.2	12.1	11.5	10.9	10.9	12.1	14.9	20.1	25.9	28.2
11.5	12.5°	10.9	9.2	8.0	7.5	6.9	8.6	11.5	16.1	22.4	25.3
8.6	15°	7.5	5.7	4.0	3.4	2.9	4.6	7.5	12.6	19.0	22.4
4.6	17.5°	4.0	1.7	0.6	0.0	0.0	1.1	3.4	9.2	15.5	18.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.5	14.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.9	9.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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	1.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.6
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°
33.3	0°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
39.7	2.5°	40.8	40.2	39.1	37.9	37.9	37.9	39.7	41.4	43.1	43.1
35.6	5°	37.9	37.9	37.4	36.2	36.2	36.8	39.1	42.0	44.3	44.8
32.8	7.5°	35.1	36.2	35.1	34.5	35.1	35.6	37.9	41.4	44.8	46.0
30.5	10°	33.3	33.9	33.9	33.3	33.3	34.5	36.8	41.4	46.0	47.7
27.6	12.5°	31.0	32.2	31.6	31.6	31.6	32.8	35.6	40.8	47.1	49.4
24.7	15°	28.7	30.5	30.5	29.9	29.9	30.5	34.5	40.2	48.9	52.9
21.3	17.5°	26.4	28.2	28.7	27.6	27.6	28.7	32.8	40.2	50.0	56.9
17.2	20°	21.8	24.7	26.4	24.7	24.7	25.9	29.9	37.9	50.6	60.9
12.6	22.5°	17.2	20.1	22.4	21.8	21.8	22.4	27.6	36.2	51.2	67.8
7.5	25°	12.6	15.5	17.2	18.4	18.4	20.1	25.3	35.1	53.5	82.2
3.4	27.5°	7.5	10.9	13.2	14.4	14.9	17.2	23.6	33.9	57.5	102.9
0.0	30°	3.4	6.3	9.2	11.5	11.5	15.5	21.8	32.8	62.7	132.8
0.0	32.5°	0.0	2.9	4.6	8.0	8.6	12.6	20.1	31.6	70.1	161.6
0.0	35°	0.0	0.0	2.3	6.3	6.3	10.3	18.4	30.5	81.6	183.4
0.0	37.5°	0.0	0.0	0.0	4.6	5.2	9.2	17.8	29.9	83.9	185.1
0.0	40°	0.0	0.0	0.0	3.4	4.0	8.6	17.8	30.5	75.9	181.1
0.0	42.5°	0.0	0.0	0.0	2.3	2.9	8.6	17.8	31.6	68.4	185.7
0.0	45°	0.0	0.0	0.0	1.7	2.3	9.2	17.2	31.0	64.4	209.9
0.0	47.5°	0.0	0.0	0.0	2.3	3.4	9.2	16.7	30.5	65.0	289.8
0.0	50°	0.0	0.0	0.0	2.9	4.0	9.2	17.2	29.3	71.3	445.6
0.0	52.5°	0.0	0.0	0.0	2.3	3.4	10.3	19.0	28.7	77.6	579.6
0.0	55°	0.0	0.0	0.0	0.6	1.7	13.2	20.7	28.7	87.4	612.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	14.9	23.6	30.5	103.5	599.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	14.9	24.1	30.5	104.6	588.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	14.9	26.4	33.9	112.7	523.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	12.6	31.6	42.5	117.3	411.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	10.3	37.4	46.6	120.7	327.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	9.8	38.5	47.1	122.5	261.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	10.3	37.9	50.6	128.2	212.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	11.5	34.5	55.8	128.2	188.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	12.1	32.2	62.7	116.7	162.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	11.5	31.6	73.0	104.1	134.0
0.0	80°	1.1	1.7	1.7	1.1	1.1	9.8	31.0	74.2	88.5	92.0
0.6	82.5°	3.4	4.6	4.0	2.9	2.9	8.6	27.6	62.1	46.0	39.7
3.4	85°	6.3	7.5	7.5	6.3	6.3	8.0	17.2	22.4	15.5	12.6
6.3	87.5°	8.6	9.8	9.8	8.6	8.6	8.0	7.5	6.9	6.3	6.3
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

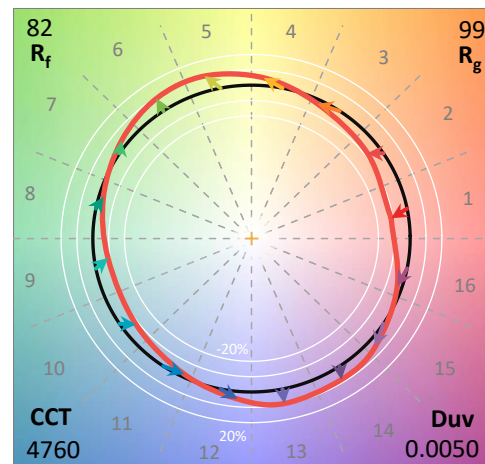
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

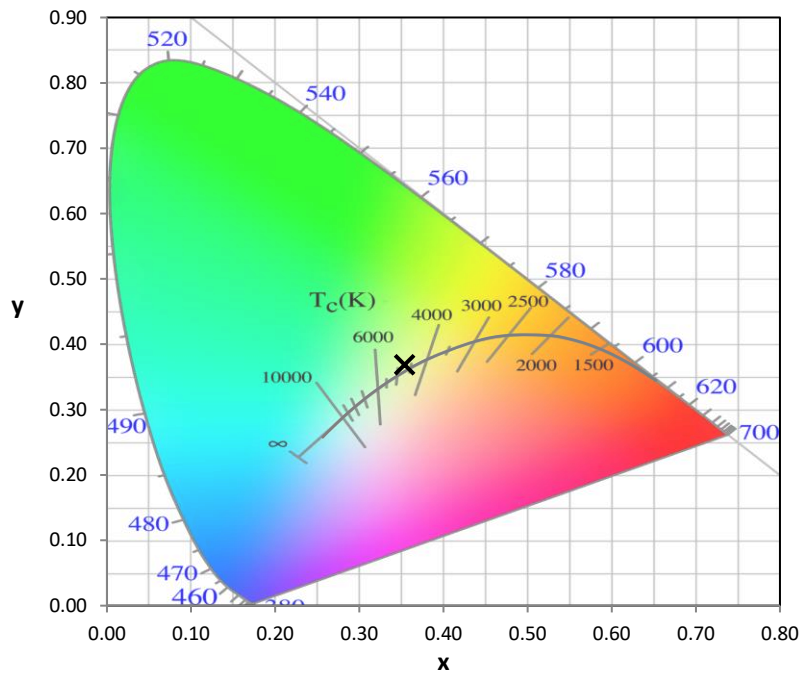
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

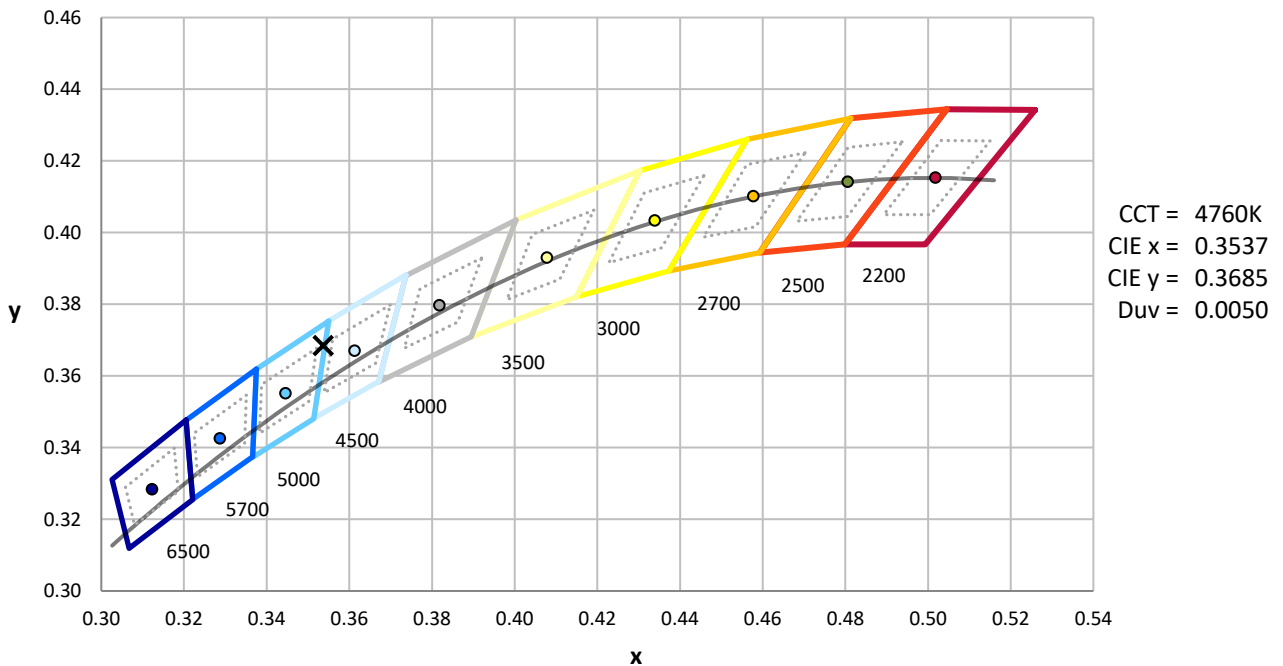
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



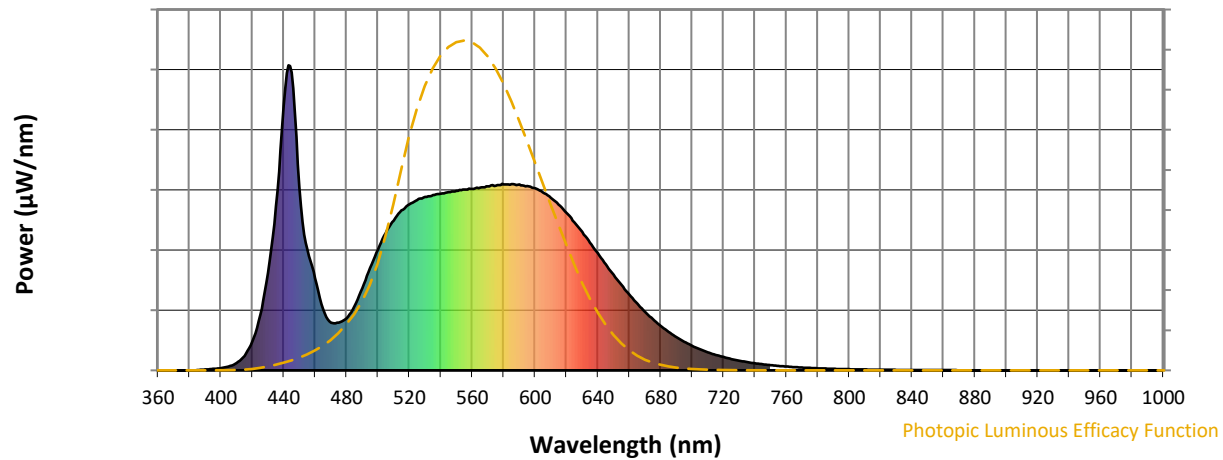
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

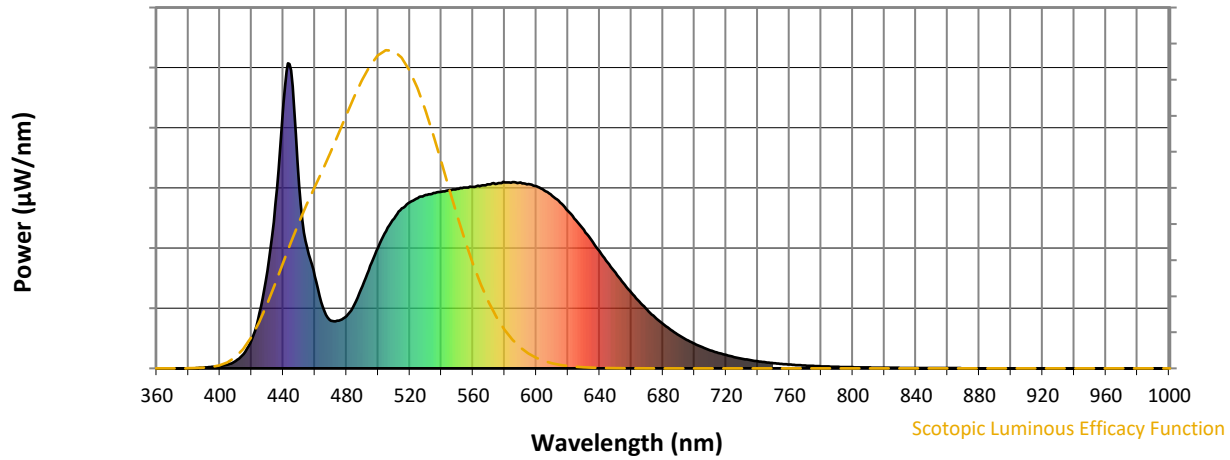


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



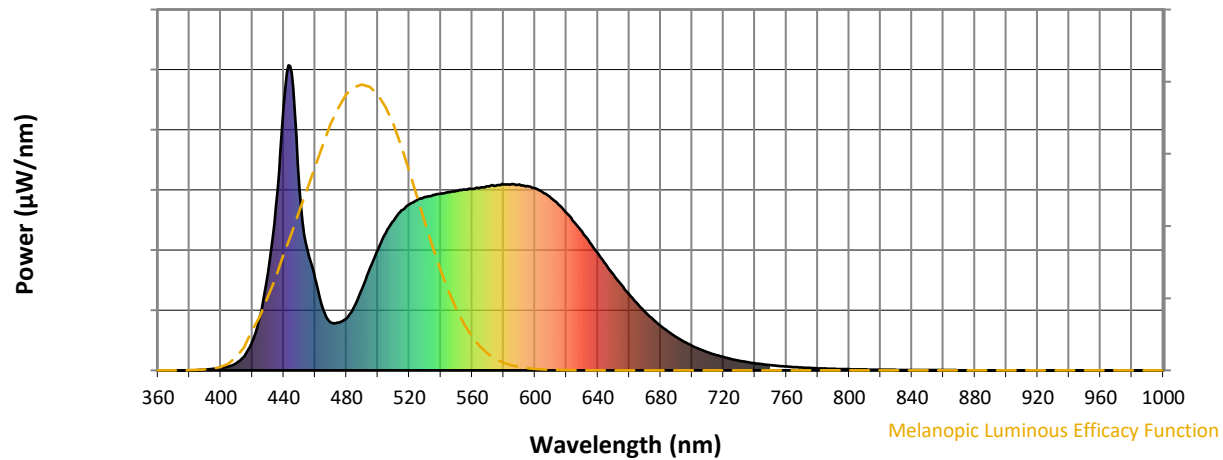
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

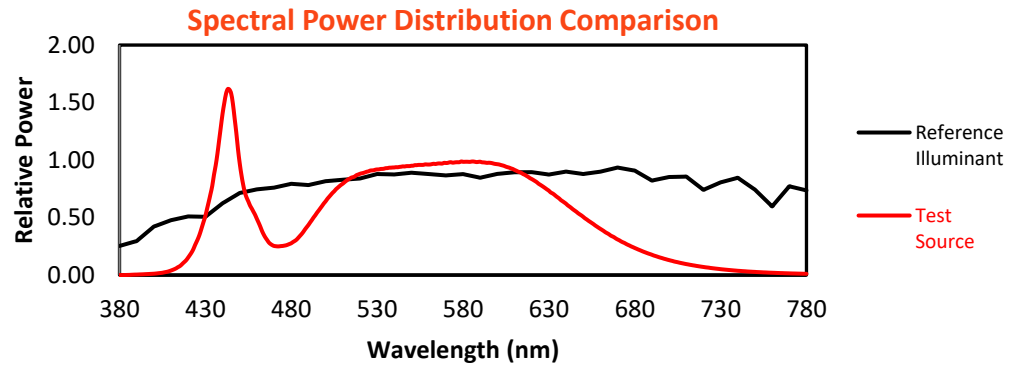
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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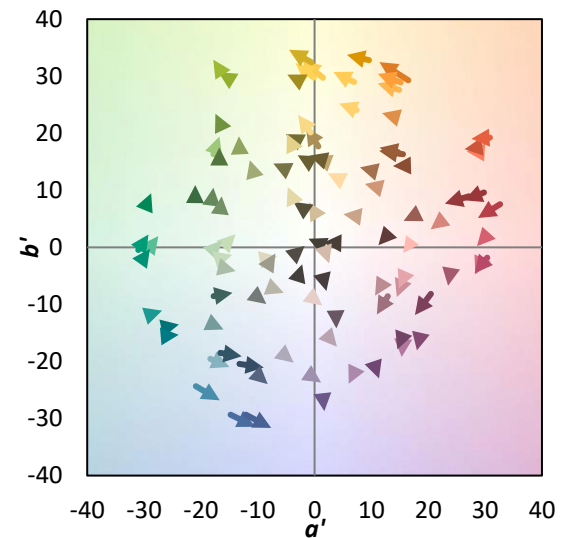
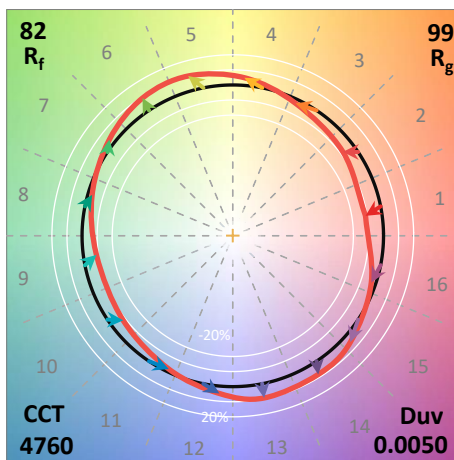
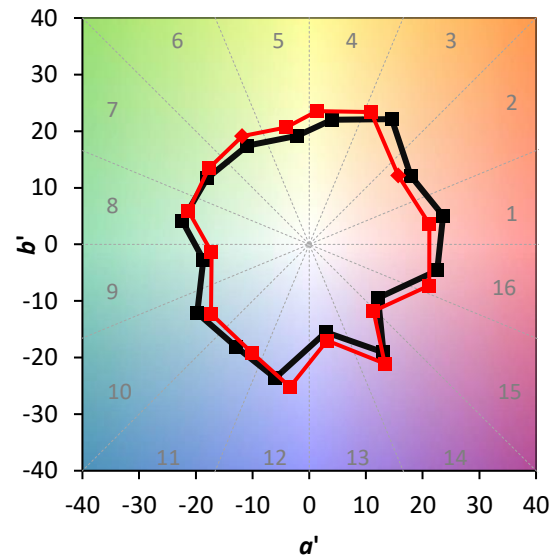
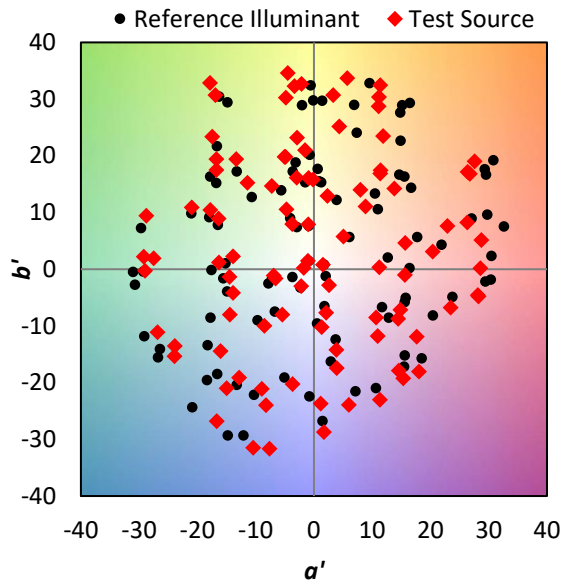
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

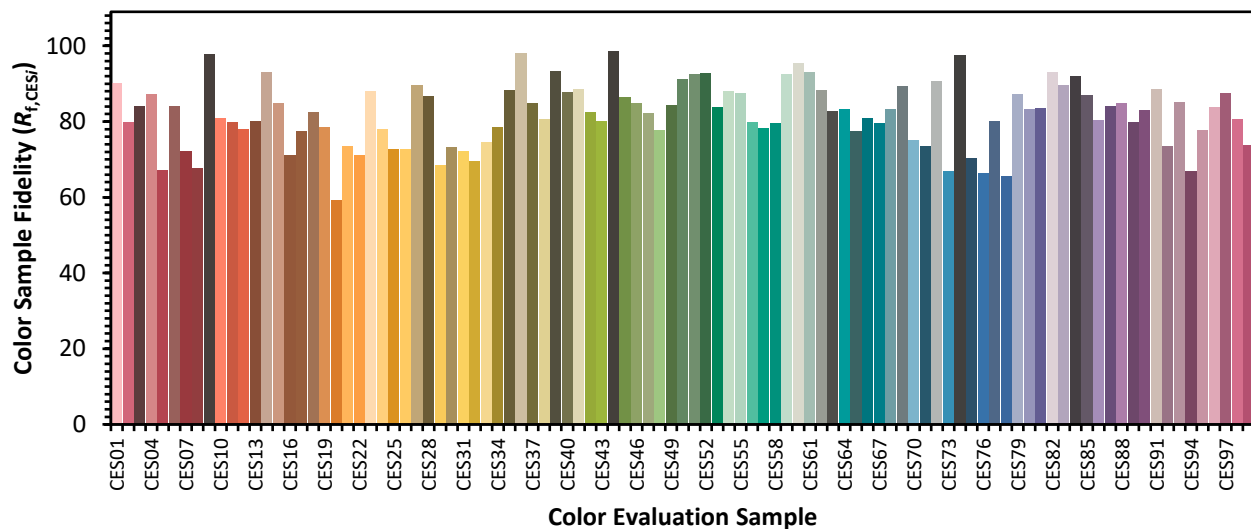


Color Vector Graphics

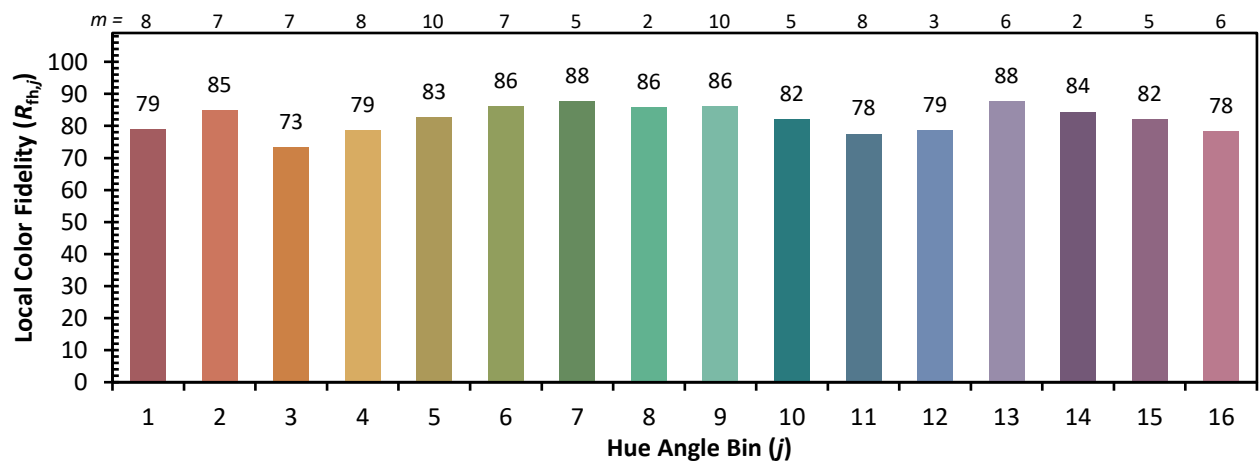
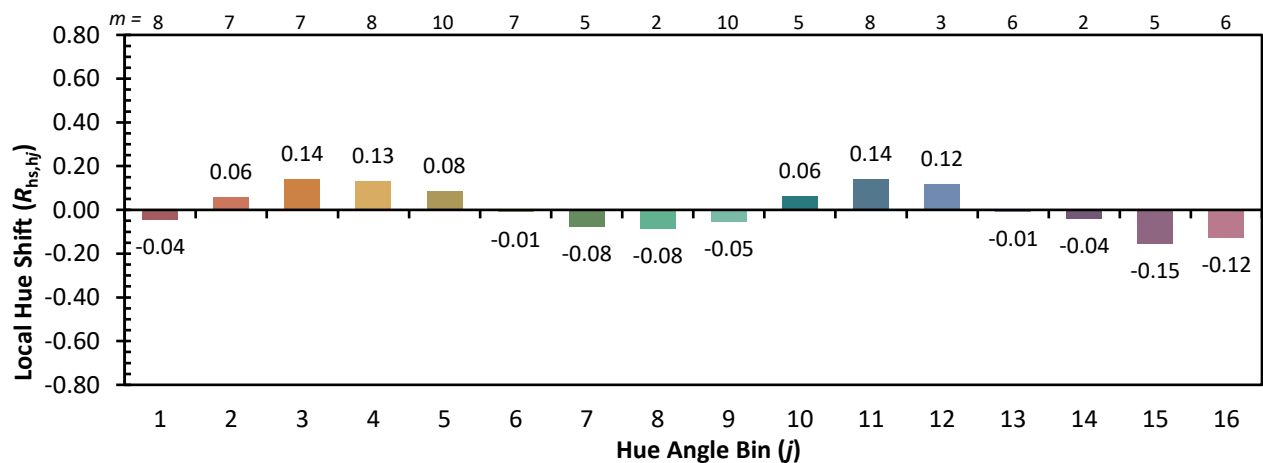
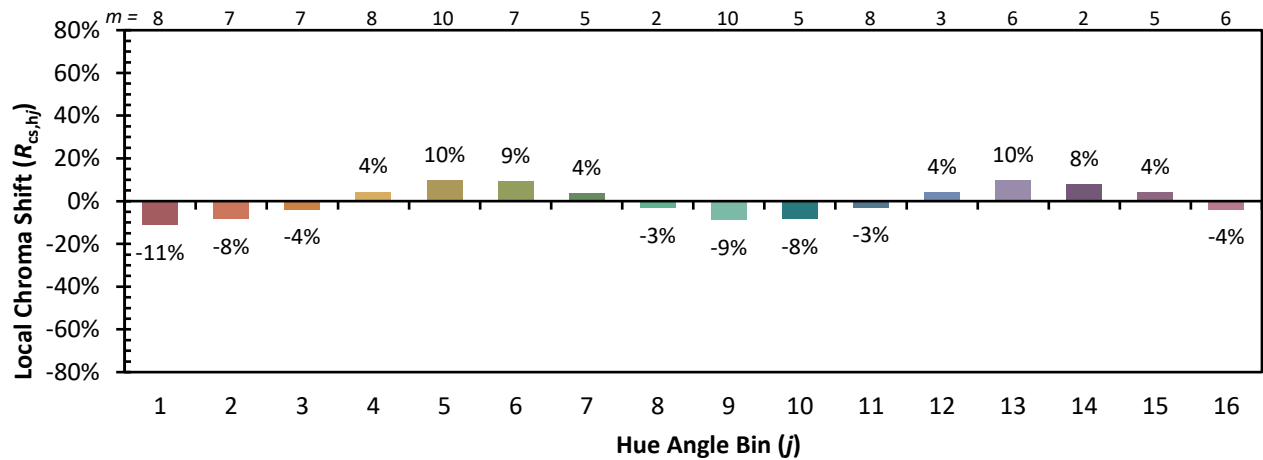


Individual Sample Fidelity Index ($R_{f,i}$)

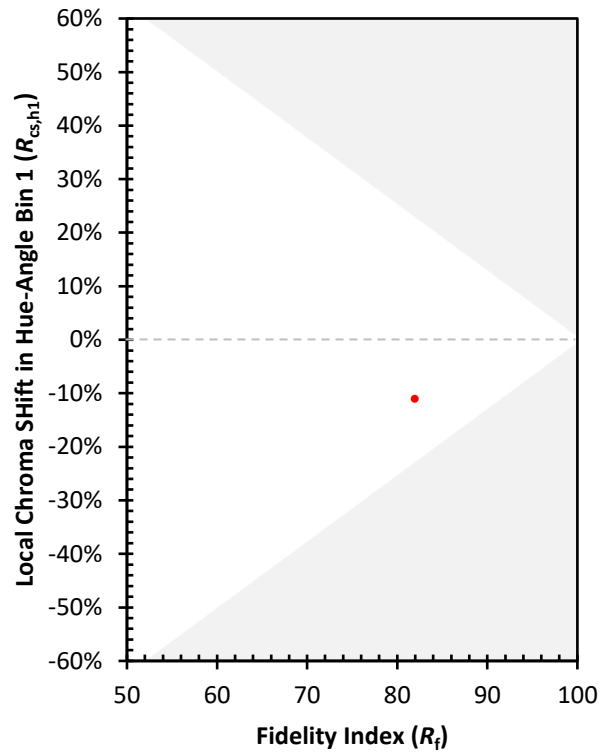
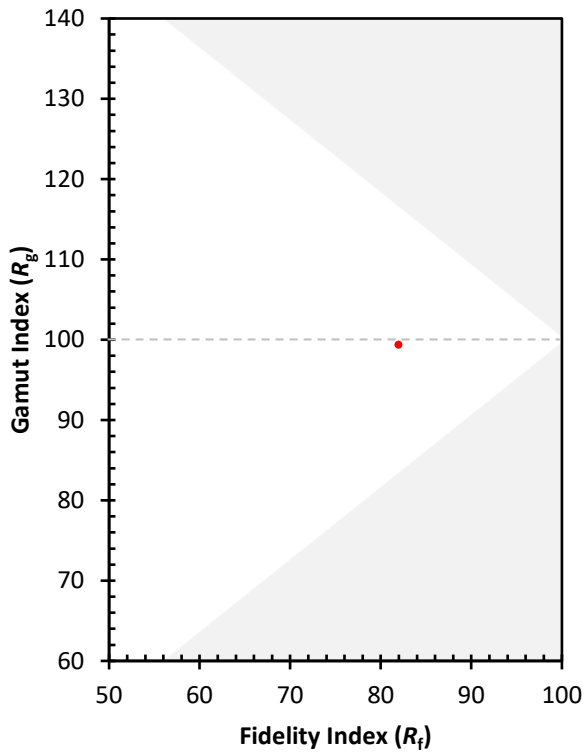
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)