

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: P1049858

Luminaire Tested: **GALN-SA1B-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049858
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3790.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

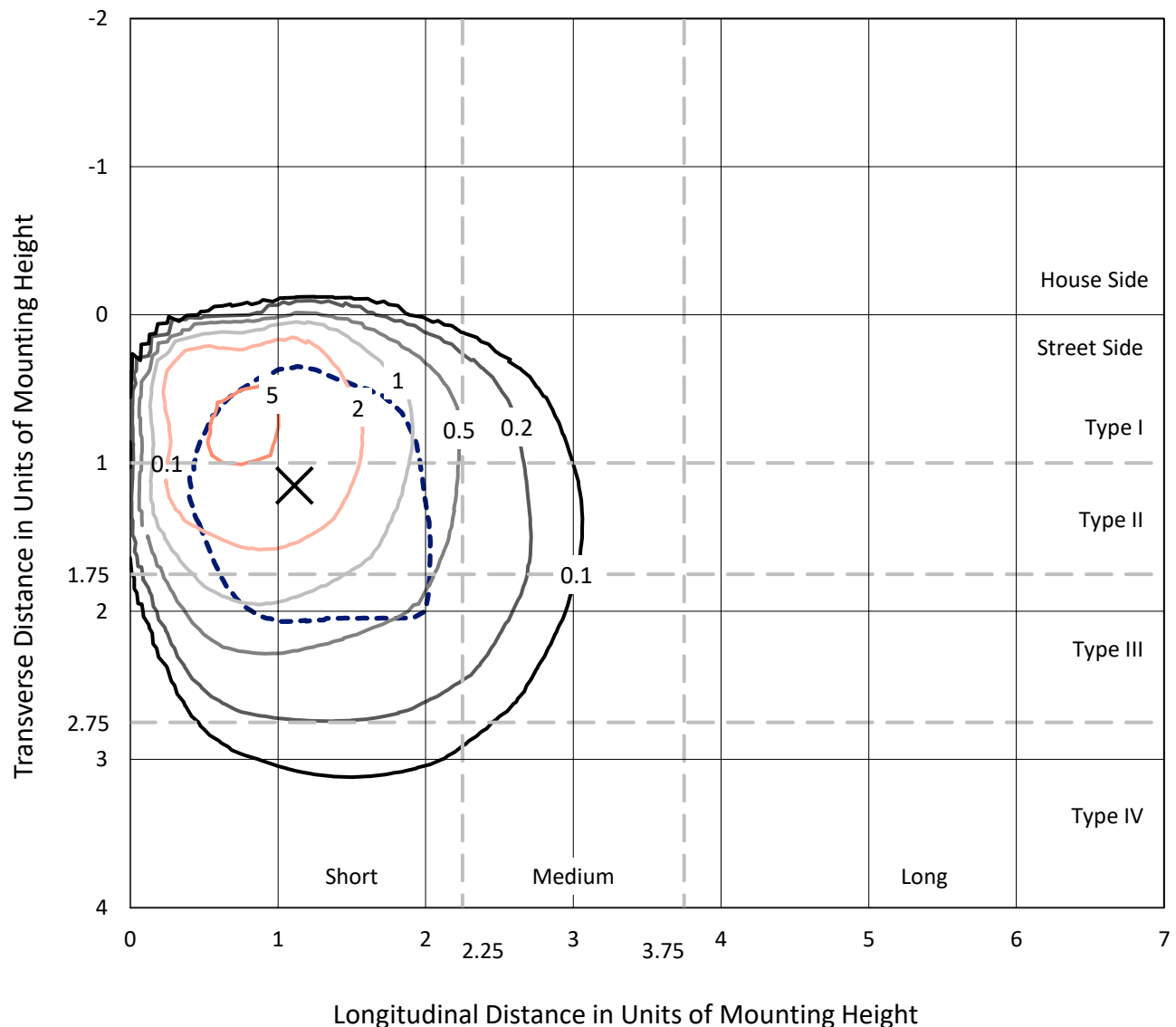
Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

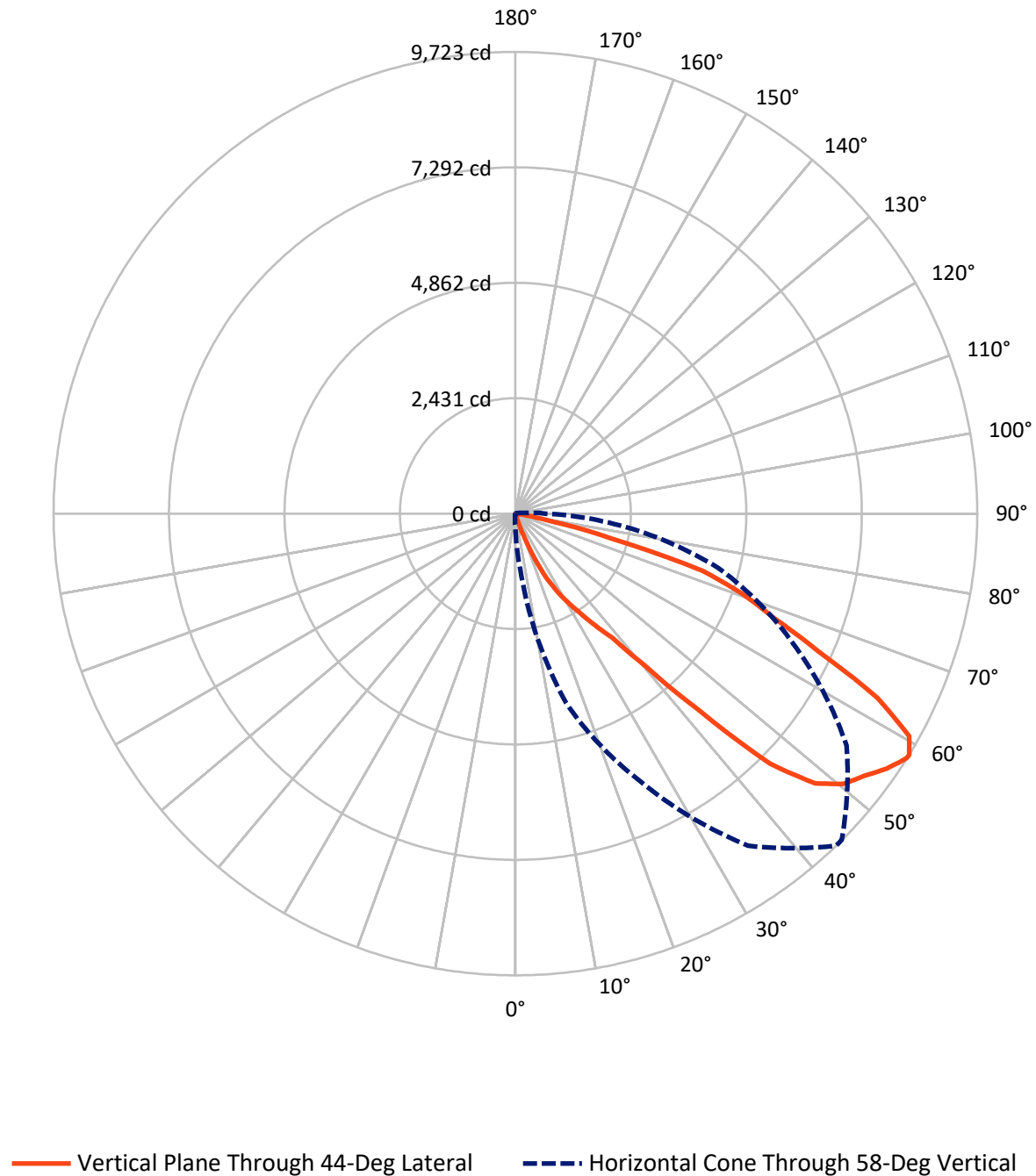
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	25.9	0.0	25.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3764.2	0.0	3764.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	3790.1	0.0	3790.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.0
10°-20°	8.3	0.2
20°-30°	89.8	2.4
30°-40°	265.5	7.0
40°-50°	791.4	20.9
50°-60°	1255.8	33.1
60°-70°	1047.5	27.6
70°-80°	323.1	8.5
80°-90°	7.2	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°	3790.1	100.0
0°-180°	3790.1	100.0

Coefficient of Utilization



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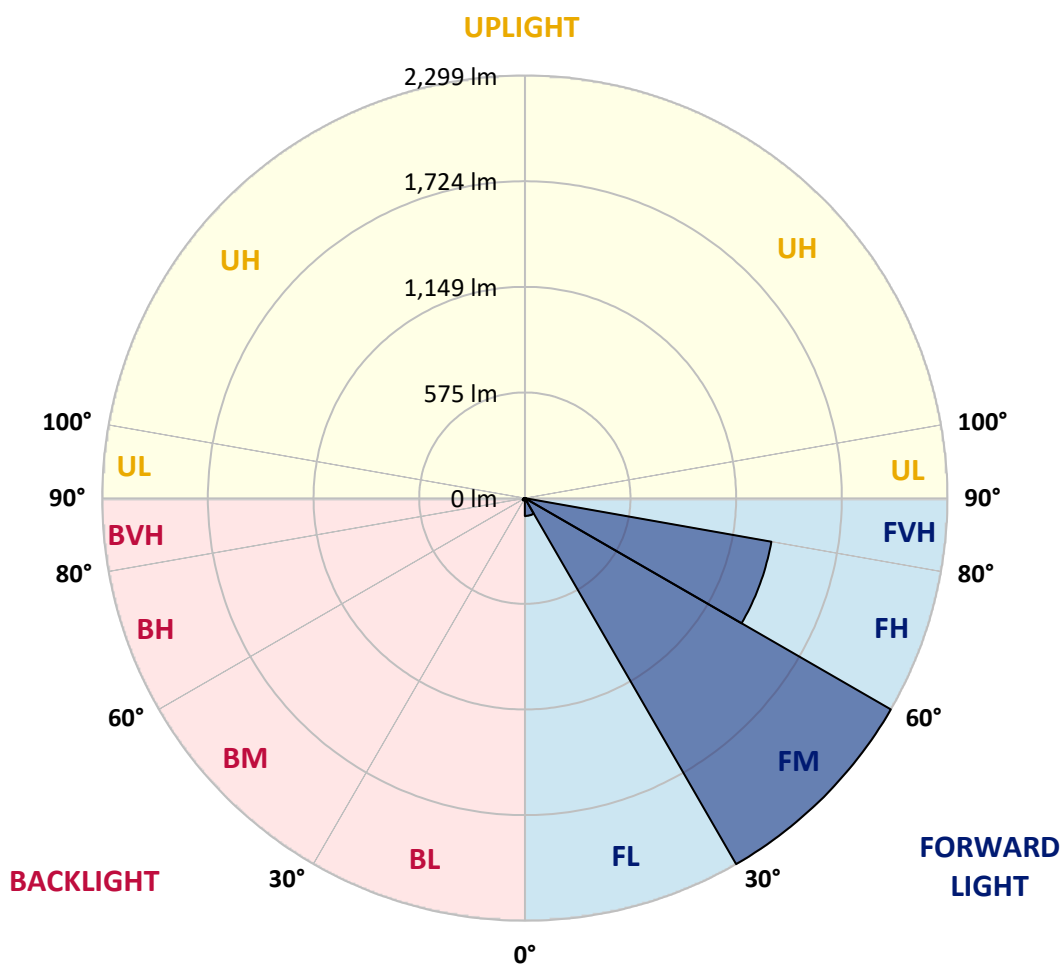
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.0	2.6			
FM	(30°-60°)	2298.6	60.6			
FH	(60°-80°)	1361.7	35.9			G1/1800
FVH	(80°-90°)	6.8	0.2			G0/10
BL	(0°-30°)	2.5	0.1	B0/110		
BM	(30°-60°)	14.2	0.4	B0/220		
BH	(60°-80°)	8.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	21.5	21.5	20.6	19.5	18.3	17.2	16.9	16.3	16.0	15.7
5°	22.3	22.3	22.0	21.2	20.0	19.2	19.2	18.3	17.8	17.2
7.5°	22.9	23.2	23.8	23.5	22.9	22.0	22.0	21.5	20.6	19.2
10°	23.8	24.6	25.8	26.3	26.6	26.6	26.3	26.1	24.6	22.6
12.5°	24.6	26.3	29.2	32.1	33.8	36.1	35.8	35.2	31.5	27.2
15°	26.3	28.9	34.9	43.2	56.1	64.1	67.3	64.4	52.1	36.6
17.5°	28.3	32.6	50.7	90.5	148.3	175.8	192.4	178.9	118.5	69.6
20°	30.3	39.8	94.2	234.5	384.8	474.7	499.6	460.7	295.8	132.6
22.5°	33.8	55.8	191.0	484.7	829.1	964.0	989.5	864.9	558.6	261.7
25°	40.9	81.0	329.3	789.9	1237.4	1465.0	1454.4	1291.3	906.2	418.0
27.5°	51.2	118.0	497.9	1122.3	1628.5	1829.2	1853.3	1651.4	1207.9	614.7
30°	66.1	163.5	678.8	1388.6	1942.0	2159.1	2163.1	1954.3	1477.9	787.3
32.5°	80.5	206.4	837.2	1646.0	2251.0	2488.9	2506.6	2249.8	1679.5	967.1
35°	91.3	234.5	997.5	1872.2	2562.5	2890.3	2889.1	2584.2	1918.3	1127.8
37.5°	92.2	262.5	1142.7	2103.5	2957.0	3324.0	3360.4	3024.3	2206.9	1326.5
40°	90.2	294.0	1326.5	2464.3	3667.9	4231.1	4263.1	3839.4	2785.8	1666.6
42.5°	92.5	348.7	1624.8	3130.5	4848.3	5657.2	5719.0	5273.5	3850.0	2360.6
45°	104.5	451.5	2249.8	4245.1	6531.0	7517.0	7496.4	6854.8	5088.3	3417.1
47.5°	144.3	703.2	3176.3	5329.9	7606.4	8484.5	8502.2	7718.0	5810.9	4229.3
50°	221.9	1075.9	3954.8	5903.4	8068.7	8949.7	8933.1	8026.9	6085.5	4629.3
52.5°	288.6	1345.6	4345.3	6104.7	8128.0	9179.6	9178.5	8108.2	6128.1	4663.7
55°	305.2	1366.0	4348.4	6115.5	8260.9	9480.5	9518.3	8308.4	6183.4	4513.6
57.5°	298.6	1209.4	4166.9	6178.5	8497.3	9713.3	9715.3	8502.2	6323.7	4421.7
58°	292.9	1184.7	4130.3	6214.3	8538.0	9723.0	9718.2	8511.1	6437.9	4418.3
60°	260.8	1028.7	3987.4	6305.7	8477.6	9523.2	9477.7	8317.3	6421.0	4383.1
62.5°	205.0	802.5	3846.8	6200.0	7830.0	8555.7	8574.6	7363.6	5853.6	4177.8
65°	163.2	598.1	3553.7	5438.4	6447.7	7026.0	7096.4	5987.8	4885.8	3537.6
67.5°	130.0	432.3	2981.0	4329.8	5102.0	5863.9	5915.1	5027.3	3785.3	2710.5
70°	105.6	292.3	2057.7	3166.6	4208.2	5064.8	5067.9	4176.4	2825.3	1776.0
72.5°	93.6	202.4	1194.5	2309.4	3412.2	4127.1	4043.8	3389.0	2171.4	1051.9
75°	81.0	134.3	585.8	1411.8	2068.9	2082.9	2114.7	1572.1	1085.4	500.2
77.5°	66.7	95.3	230.8	385.7	620.4	794.2	823.7	624.2	361.0	123.1
80°	45.8	45.2	62.1	118.2	177.5	222.5	207.6	160.6	94.5	47.2
82.5°	19.8	21.5	28.1	33.8	27.5	26.6	25.5	16.3	12.6	9.7
85°	6.3	5.7	6.0	6.0	4.9	3.7	3.7	1.7	0.0	0.0
87.5°	3.1	2.6	2.6	2.3	1.4	0.6	0.3	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°
16.6	0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
15.5	2.5°	15.2	15.2	14.6	14.0	13.7	13.2	12.9	12.6	12.3	12.0
16.6	5°	16.0	15.7	14.9	14.0	13.2	12.3	11.7	11.2	10.6	10.3
18.3	7.5°	17.5	16.9	15.2	13.7	12.6	11.5	10.9	10.0	9.4	8.6
20.3	10°	19.2	18.0	15.7	14.0	12.3	10.9	10.0	9.2	8.3	7.2
23.2	12.5°	21.5	19.5	16.6	13.7	11.7	10.0	9.2	8.0	7.2	6.3
26.9	15°	23.5	20.9	16.9	13.7	11.2	9.2	8.0	6.9	6.0	4.9
33.8	17.5°	26.3	22.0	16.6	12.9	10.3	8.0	6.9	6.0	4.6	2.9
50.1	20°	31.2	22.9	16.0	12.0	8.9	6.6	5.2	4.0	2.0	0.6
75.3	22.5°	38.9	25.2	15.5	10.9	7.7	5.2	3.4	1.4	0.0	0.0
114.5	25°	53.8	29.2	15.5	10.3	6.9	3.7	1.1	0.0	0.0	0.0
162.6	27.5°	71.6	34.6	15.5	8.9	5.4	2.0	0.0	0.0	0.0	0.0
221.6	30°	89.6	40.7	15.5	7.7	4.3	0.3	0.0	0.0	0.0	0.0
272.9	32.5°	106.8	45.8	15.7	6.6	2.9	0.0	0.0	0.0	0.0	0.0
343.9	35°	124.3	46.7	15.5	5.7	1.7	0.0	0.0	0.0	0.0	0.0
430.9	37.5°	146.6	45.0	14.6	5.2	0.9	0.0	0.0	0.0	0.0	0.0
566.9	40°	180.4	45.8	13.7	4.9	0.3	0.0	0.0	0.0	0.0	0.0
809.4	42.5°	242.8	49.5	12.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
1289.2	45°	419.7	66.4	11.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
1935.4	47.5°	694.3	119.4	11.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
2331.4	50°	886.1	150.3	11.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0
2380.9	52.5°	884.7	167.5	12.3	5.7	1.1	0.0	0.0	0.0	0.0	0.0
2194.6	55°	786.5	170.6	13.2	6.3	3.7	0.0	0.0	0.0	0.0	0.0
1885.9	57.5°	657.4	155.8	15.2	7.7	6.9	0.0	0.0	0.0	0.0	0.0
1837.5	58°	634.5	148.9	15.7	8.0	7.4	0.0	0.0	0.0	0.0	0.0
1593.9	60°	519.9	121.4	20.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0
1306.7	62.5°	359.0	105.9	22.9	12.9	10.3	0.0	0.0	0.0	0.0	0.0
963.4	65°	254.0	95.6	24.9	13.7	8.3	0.0	0.0	0.0	0.0	0.0
684.6	67.5°	189.8	88.2	27.5	14.0	4.3	0.0	0.0	0.0	0.0	0.0
429.5	70°	145.4	82.7	33.8	14.9	1.1	0.0	0.0	0.0	0.0	0.0
256.0	72.5°	118.5	76.4	40.9	15.5	0.0	0.0	0.0	0.0	0.0	0.0
153.5	75°	98.2	69.0	39.5	16.9	0.0	0.0	0.0	0.0	0.0	0.0
81.9	77.5°	65.3	53.5	36.1	16.9	0.0	0.0	0.0	0.0	0.0	0.0
29.2	80°	22.9	21.2	28.1	14.9	0.0	0.0	0.0	0.0	0.0	0.0
6.0	82.5°	3.4	2.9	4.0	5.2	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°
16.6	0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
11.7	2.5°	11.7	11.7	11.5	11.7	11.7	12.3	13.7	15.7	18.0	18.9
10.0	5°	9.7	9.4	9.2	9.2	9.2	10.0	11.2	13.5	16.0	17.2
8.3	7.5°	8.0	7.7	7.4	7.2	7.2	7.7	9.2	11.7	14.3	15.5
6.9	10°	6.6	6.0	5.7	5.4	5.4	6.0	7.4	10.0	12.9	14.0
5.7	12.5°	5.4	4.6	4.0	3.7	3.4	4.3	5.7	8.0	11.2	12.6
4.3	15°	3.7	2.9	2.0	1.7	1.4	2.3	3.7	6.3	9.4	11.2
2.3	17.5°	2.0	0.9	0.3	0.0	0.0	0.6	1.7	4.6	7.7	9.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	7.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4	4.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
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°
16.6	0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
19.8	2.5°	20.3	20.0	19.5	18.9	18.9	18.9	19.8	20.6	21.5	21.5
17.8	5°	18.9	18.9	18.6	18.0	18.0	18.3	19.5	20.9	22.0	22.3
16.3	7.5°	17.5	18.0	17.5	17.2	17.5	17.8	18.9	20.6	22.3	22.9
15.2	10°	16.6	16.9	16.9	16.6	16.6	17.2	18.3	20.6	22.9	23.8
13.7	12.5°	15.5	16.0	15.7	15.7	15.7	16.3	17.8	20.3	23.5	24.6
12.3	15°	14.3	15.2	15.2	14.9	14.9	15.2	17.2	20.0	24.3	26.3
10.6	17.5°	13.2	14.0	14.3	13.7	13.7	14.3	16.3	20.0	24.9	28.3
8.6	20°	10.9	12.3	13.2	12.3	12.3	12.9	14.9	18.9	25.2	30.3
6.3	22.5°	8.6	10.0	11.2	10.9	10.9	11.2	13.7	18.0	25.5	33.8
3.7	25°	6.3	7.7	8.6	9.2	9.2	10.0	12.6	17.5	26.6	40.9
1.7	27.5°	3.7	5.4	6.6	7.2	7.4	8.6	11.7	16.9	28.6	51.2
0.0	30°	1.7	3.1	4.6	5.7	5.7	7.7	10.9	16.3	31.2	66.1
0.0	32.5°	0.0	1.4	2.3	4.0	4.3	6.3	10.0	15.7	34.9	80.5
0.0	35°	0.0	0.0	1.1	3.1	3.1	5.2	9.2	15.2	40.7	91.3
0.0	37.5°	0.0	0.0	0.0	2.3	2.6	4.6	8.9	14.9	41.8	92.2
0.0	40°	0.0	0.0	0.0	1.7	2.0	4.3	8.9	15.2	37.8	90.2
0.0	42.5°	0.0	0.0	0.0	1.1	1.4	4.3	8.9	15.7	34.1	92.5
0.0	45°	0.0	0.0	0.0	0.9	1.1	4.6	8.6	15.5	32.1	104.5
0.0	47.5°	0.0	0.0	0.0	1.1	1.7	4.6	8.3	15.2	32.4	144.3
0.0	50°	0.0	0.0	0.0	1.4	2.0	4.6	8.6	14.6	35.5	221.9
0.0	52.5°	0.0	0.0	0.0	1.1	1.7	5.2	9.4	14.3	38.7	288.6
0.0	55°	0.0	0.0	0.0	0.3	0.9	6.6	10.3	14.3	43.5	305.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	7.4	11.7	15.2	51.5	298.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	7.4	12.0	15.2	52.1	292.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	7.4	13.2	16.9	56.1	260.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.3	15.7	21.2	58.4	205.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.2	18.6	23.2	60.1	163.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.9	19.2	23.5	61.0	130.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.2	18.9	25.2	63.8	105.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	5.7	17.2	27.8	63.8	93.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	6.0	16.0	31.2	58.1	81.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	5.7	15.7	36.4	51.8	66.7
0.0	80°	0.6	0.9	0.9	0.6	0.6	4.9	15.5	36.9	44.1	45.8
0.3	82.5°	1.7	2.3	2.0	1.4	1.4	4.3	13.7	30.9	22.9	19.8
1.7	85°	3.1	3.7	3.7	3.1	3.1	4.0	8.6	11.2	7.7	6.3
3.1	87.5°	4.3	4.9	4.9	4.3	4.3	4.0	3.7	3.4	3.1	3.1
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

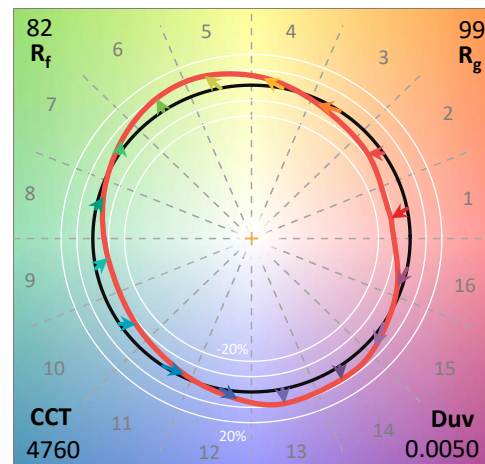
Test Information

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

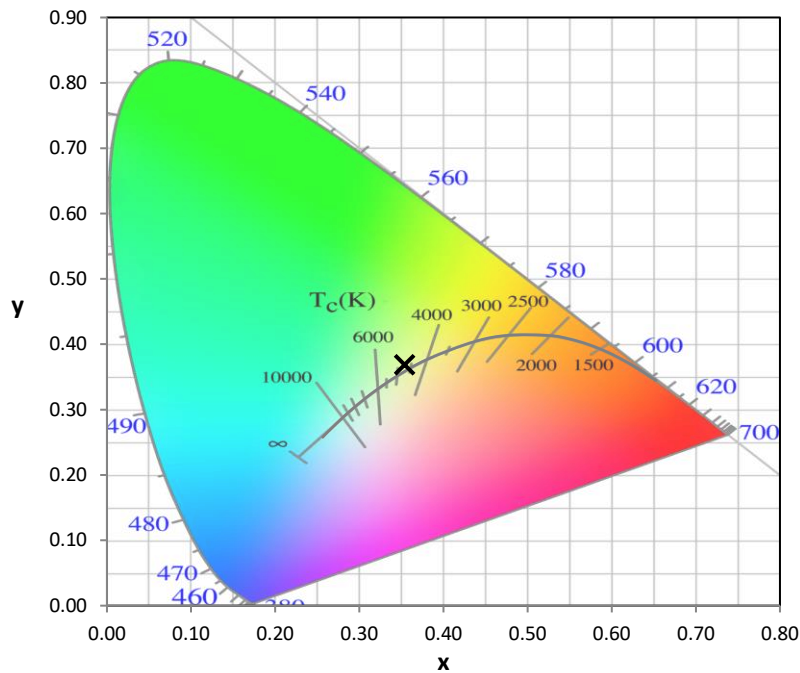
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

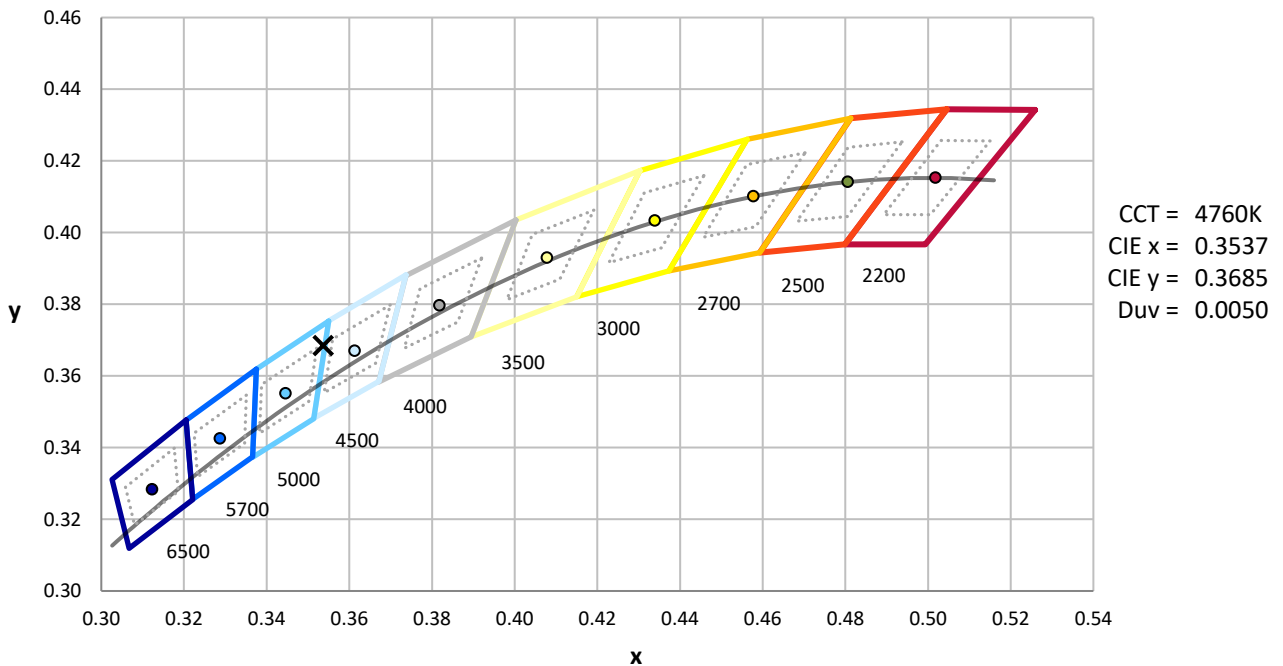
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



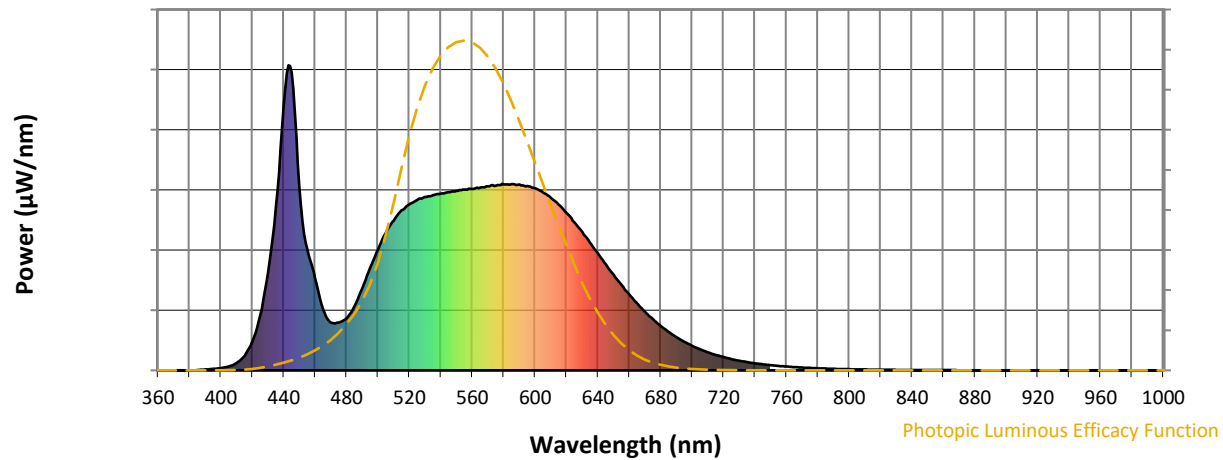
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

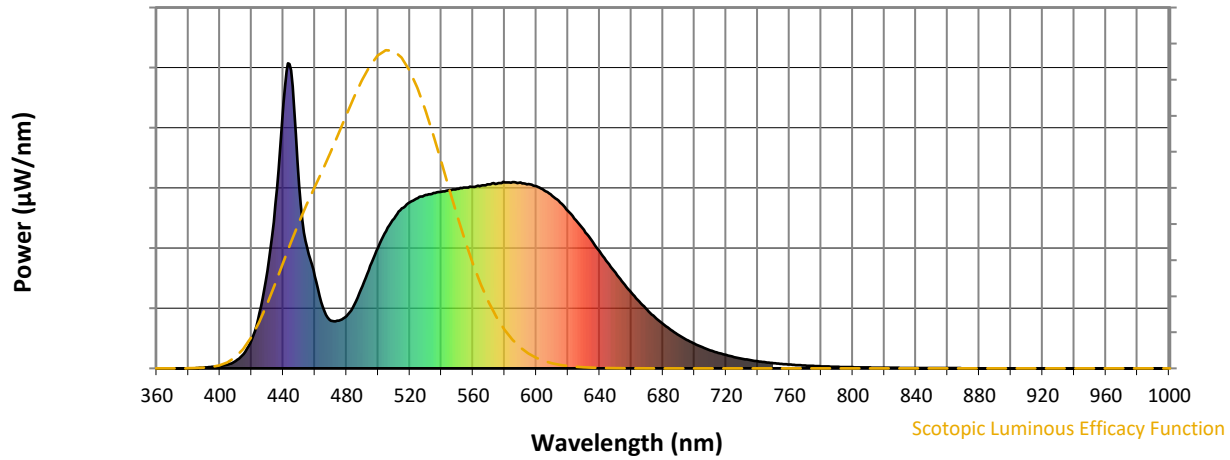


Photopic Lumens: NR

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



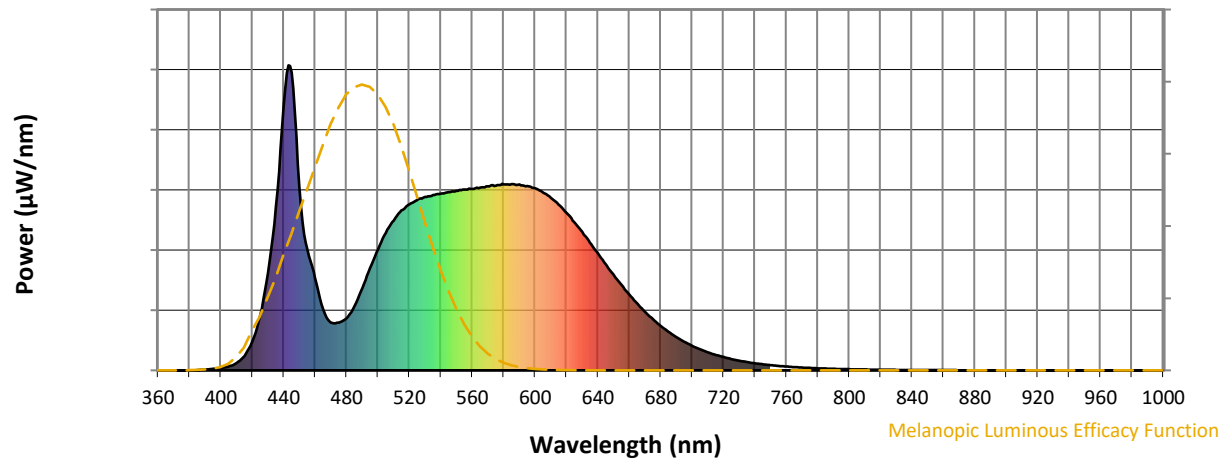
Scotopic Lumens: NR

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

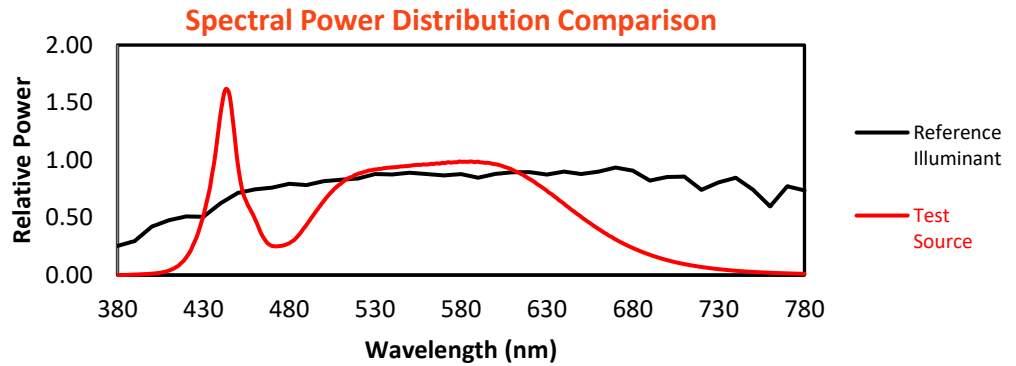
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	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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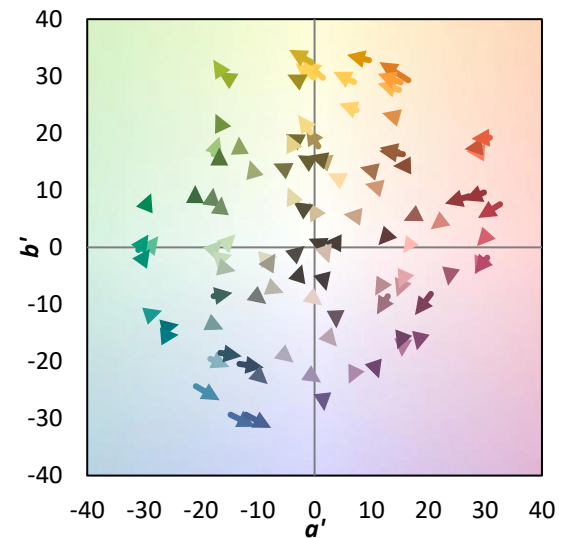
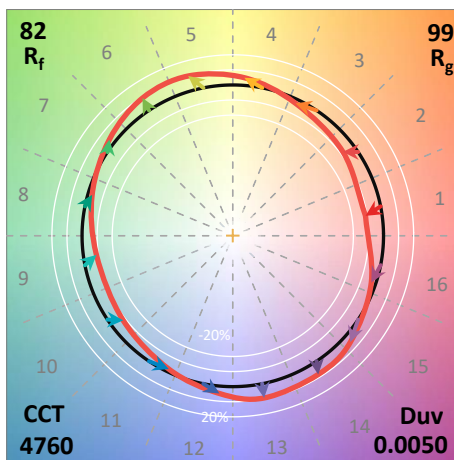
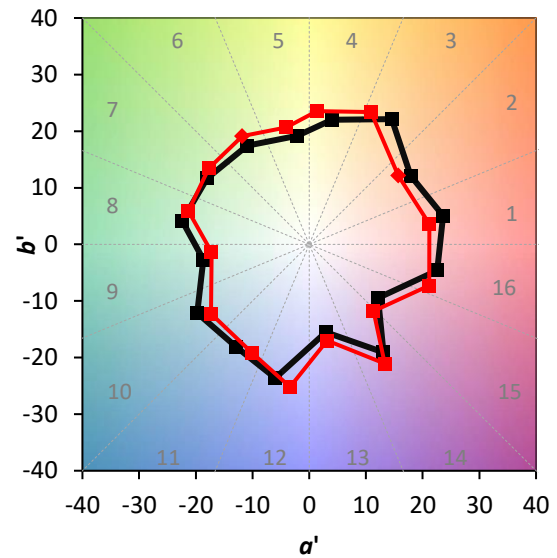
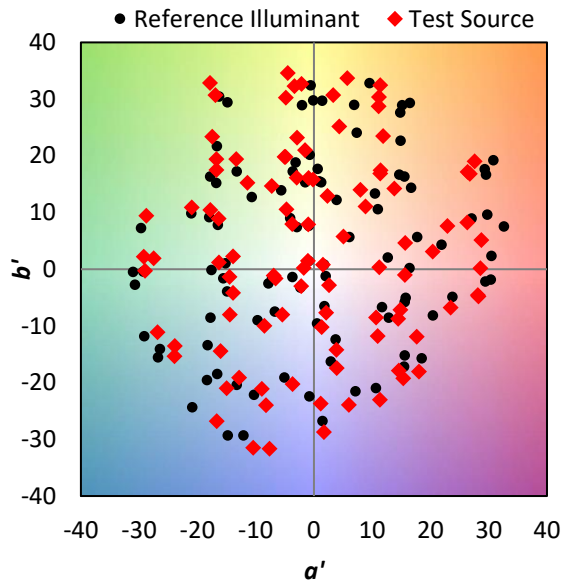
TM-30-18

Summary

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

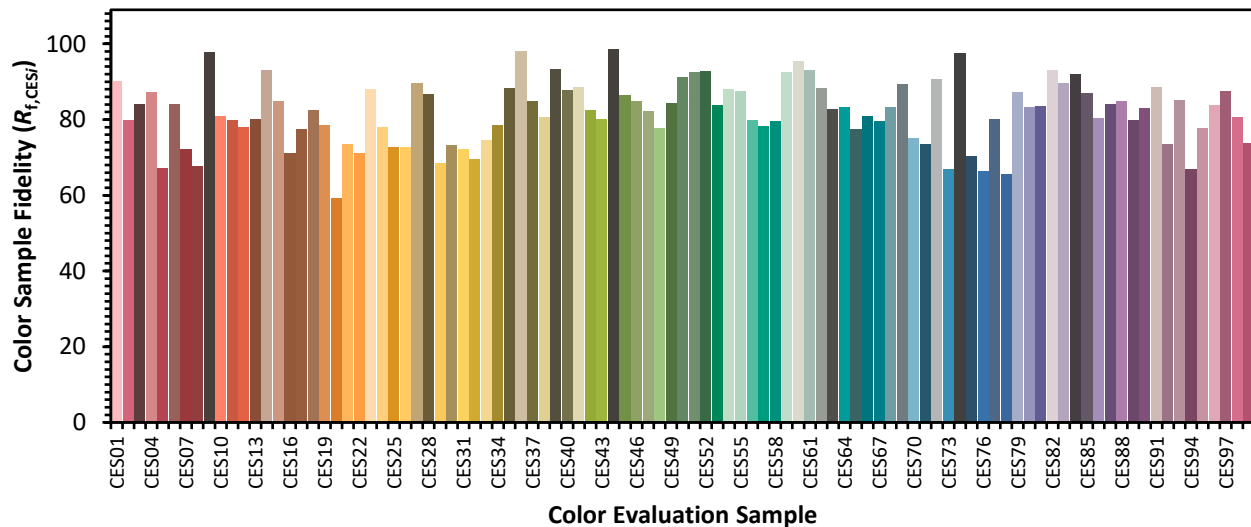


Color Vector Graphics

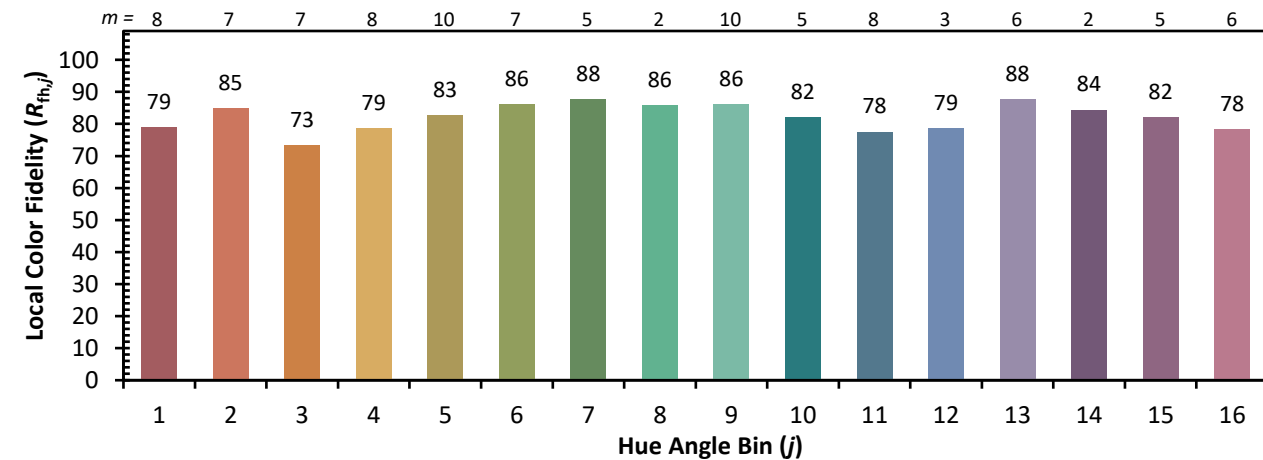
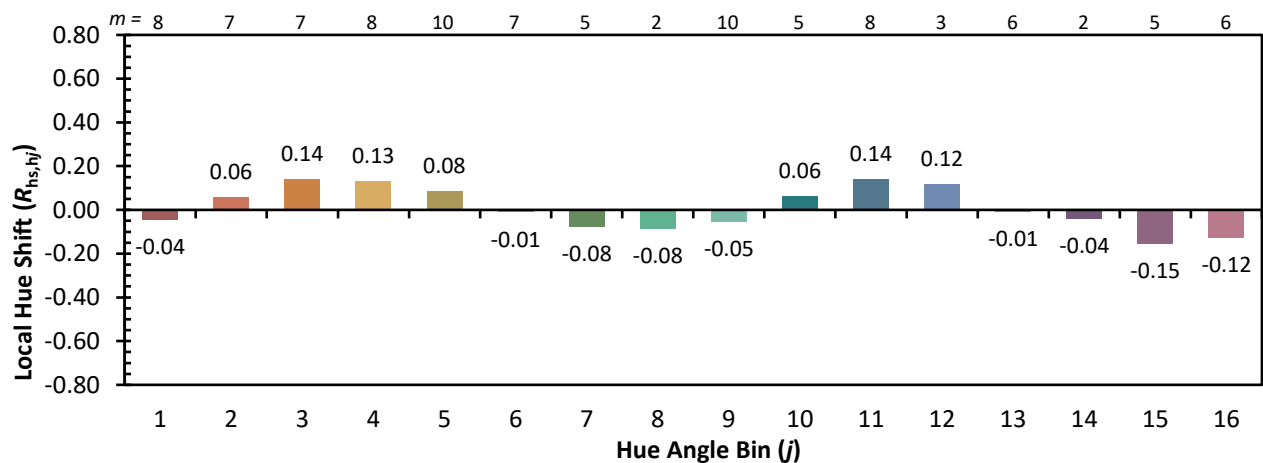
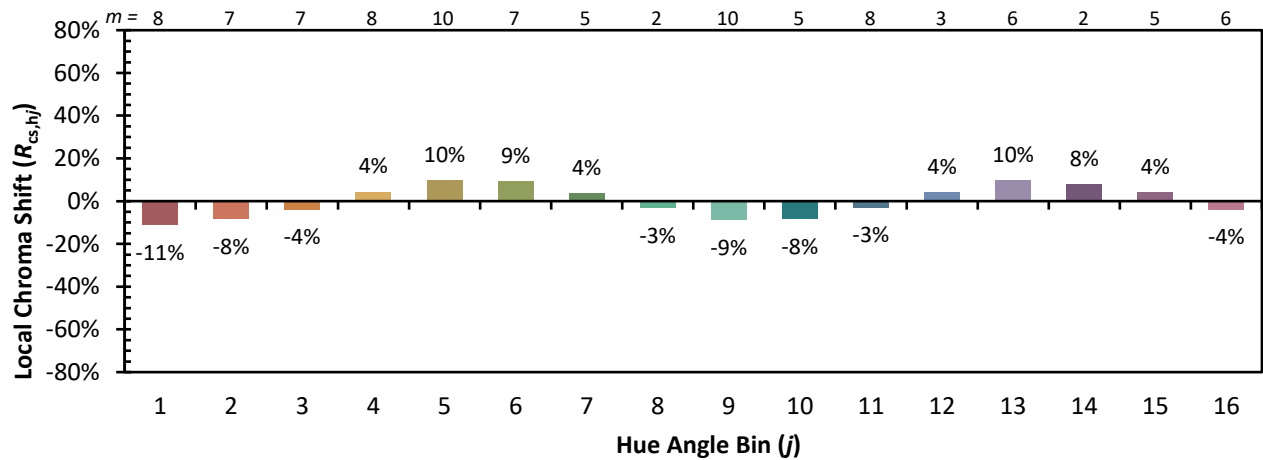


Individual Sample Fidelity Index ($R_{f,i}$)

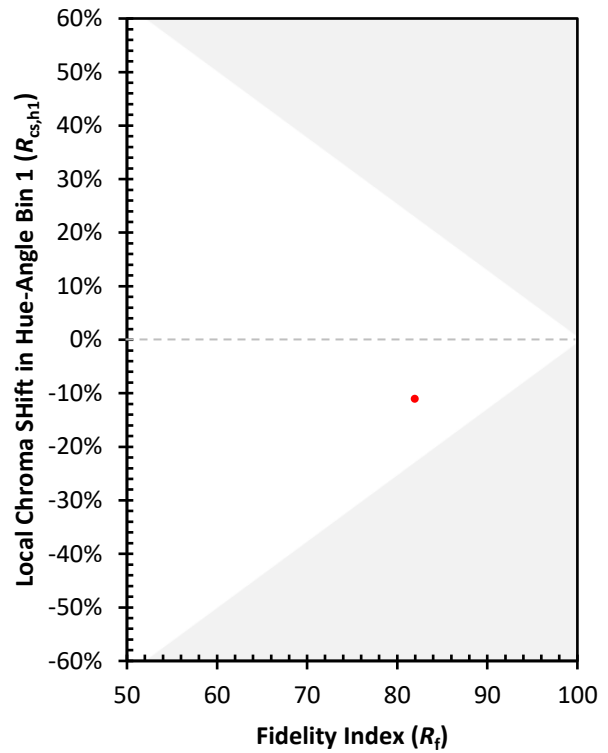
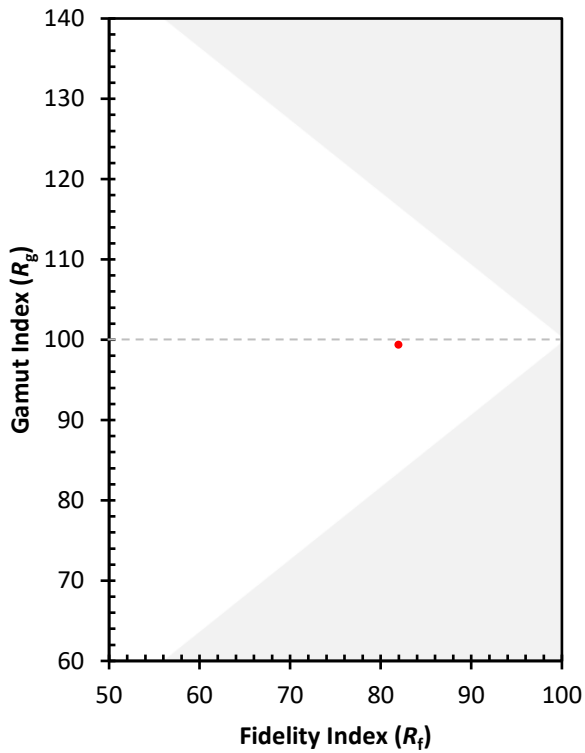
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 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)