Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501961

Luminaire Tested: GSS-SB4A-840-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501961
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13509.4 lumens
Efficiency:	N/A
Efficacy:	118.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

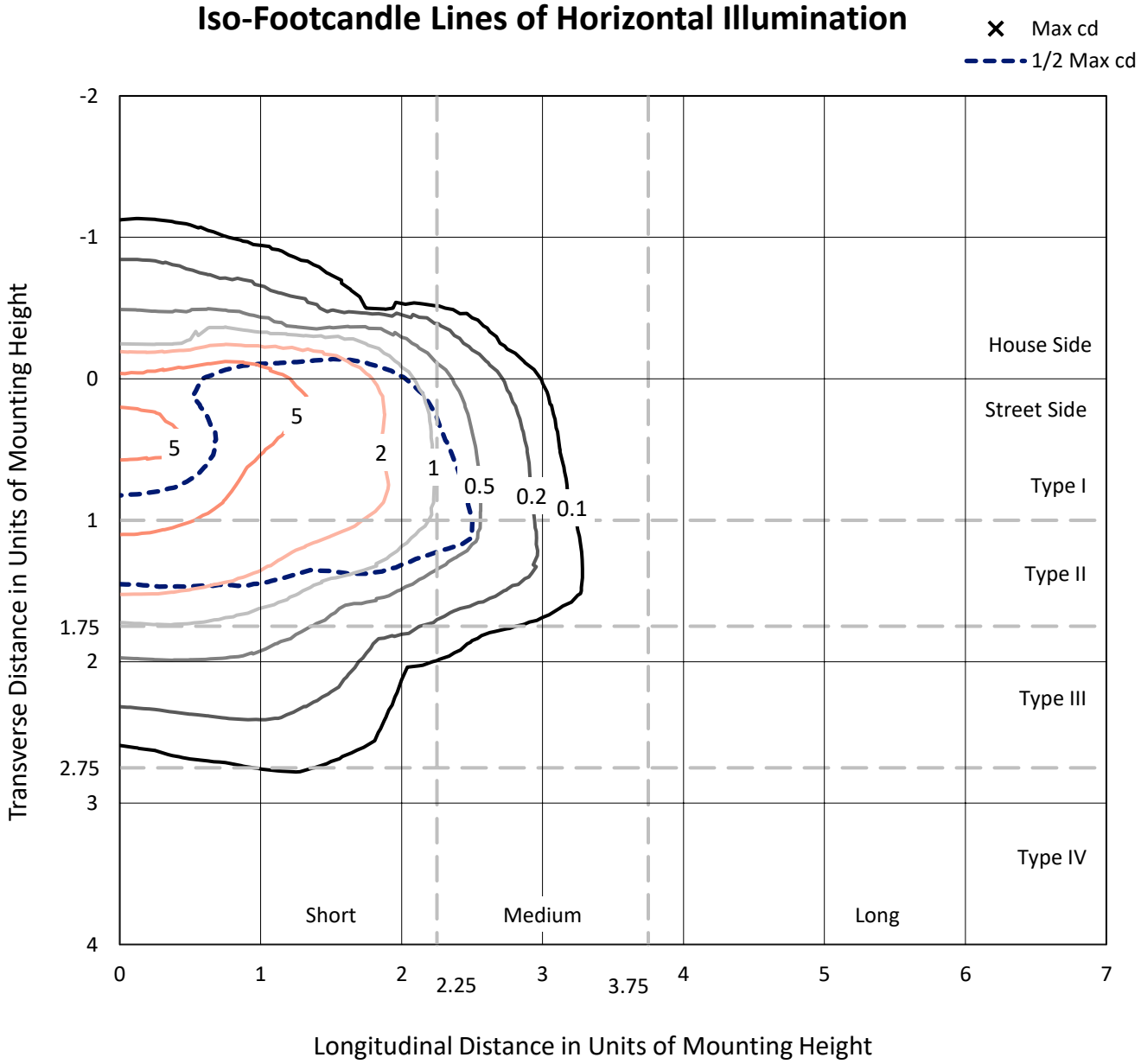
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



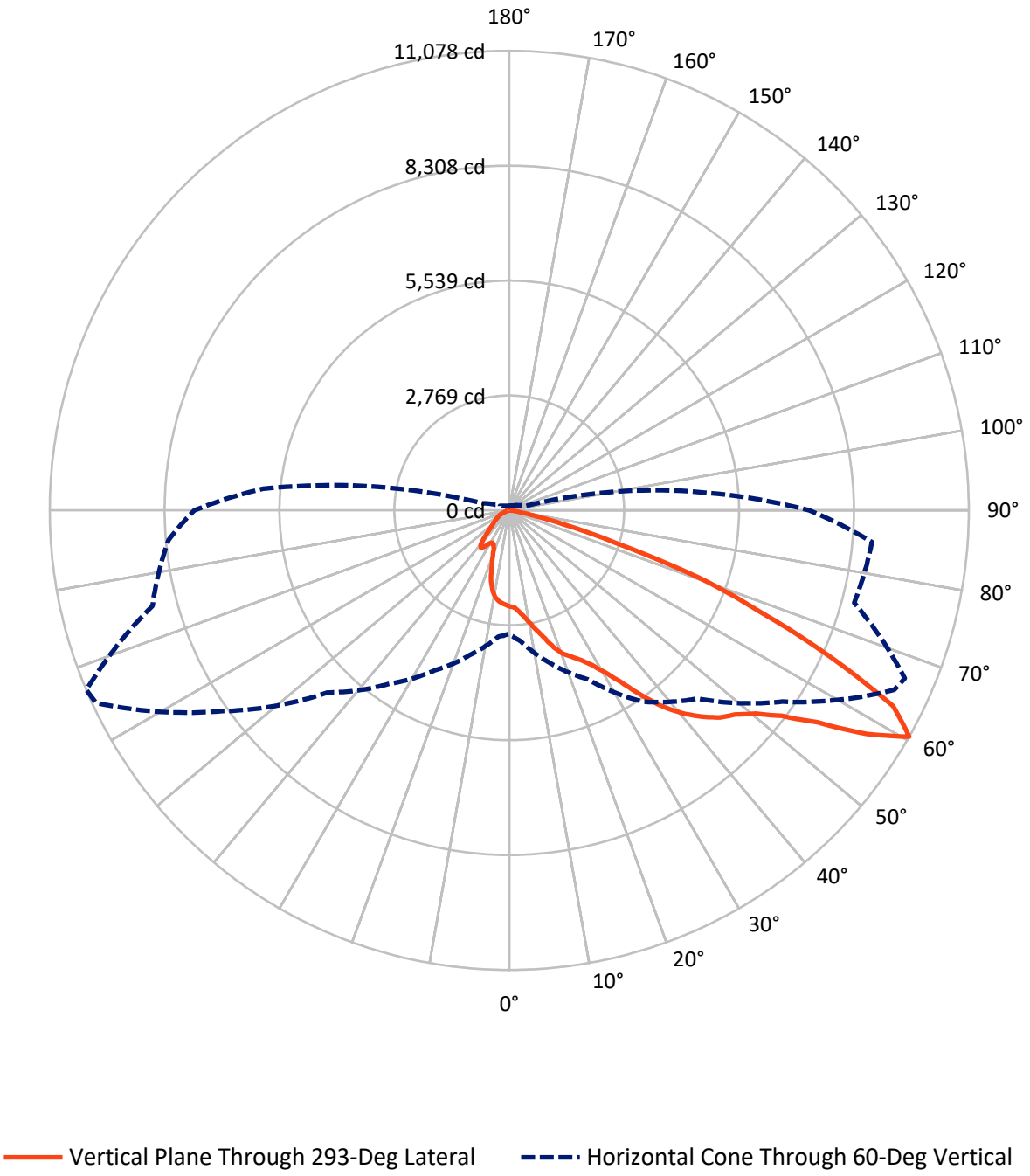
Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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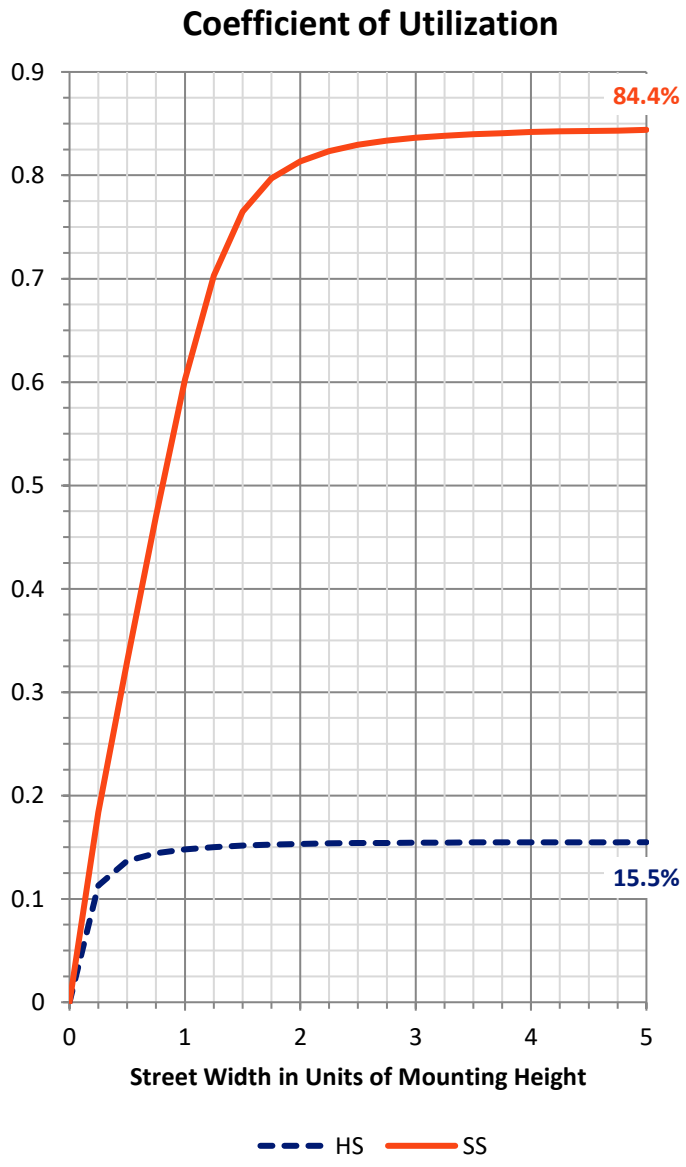
REPORT NUMBER: P1501961
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2107.8	0.0	2107.8
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	11401.6	0.0	11401.6
	% Fixture	84.4	0.0	84.4
Total	Lumens	13509.4	0.0	13509.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.6
10°-20°	528.0	3.9
20°-30°	985.7	7.3
30°-40°	1954.8	14.5
40°-50°	3116.6	23.1
50°-60°	3723.6	27.6
60°-70°	2441.0	18.1
70°-80°	511.4	3.8
80°-90°	38.7	0.3
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°	13509.4	100.0
0°-180°	13509.4	100.0



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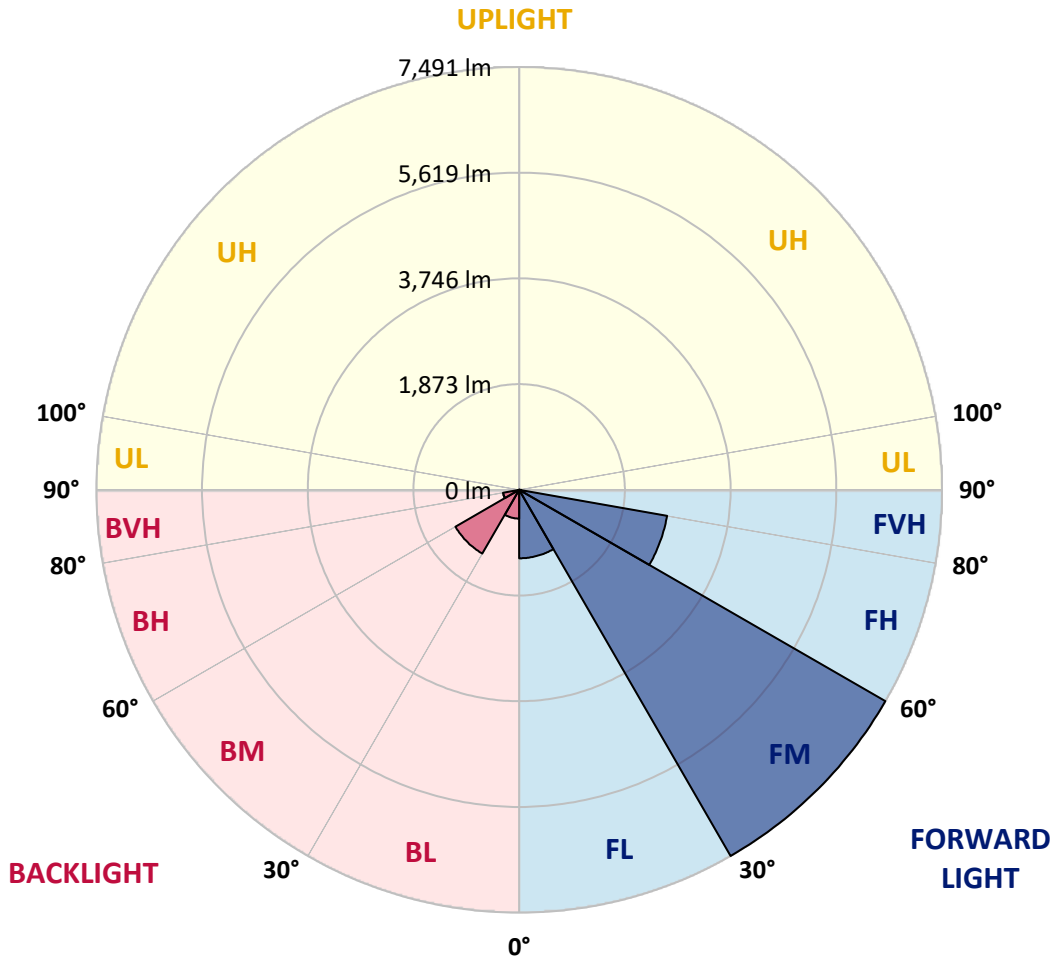
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1213.4	9.0			
FM	(30°-60°)	7491.5	55.5			
FH	(60°-80°)	2661.3	19.7			G2/5000
FVH	(80°-90°)	35.4	0.3			G1/100
BL	(0°-30°)	509.9	3.8	B2/1000		
BM	(30°-60°)	1303.5	9.6	B2/2500		
BH	(60°-80°)	291.2	2.2	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2432.7	2425.1	2413.7	2417.5	2413.7	2398.6	2375.9	2357.0	2372.1	2349.4	2334.3
5°	2504.5	2504.5	2497.0	2497.0	2500.8	2493.2	2478.1	2451.6	2455.4	2436.4	2387.3
7.5°	2504.5	2493.2	2512.1	2531.0	2565.1	2584.0	2591.6	2576.4	2584.0	2546.2	2481.8
10°	2357.0	2349.4	2398.6	2470.5	2568.9	2655.9	2712.6	2716.4	2727.8	2689.9	2614.3
12.5°	2043.0	2027.8	2126.2	2262.4	2462.9	2663.4	2822.3	2882.9	2909.4	2894.2	2788.3
15°	1751.7	1770.6	1838.7	1986.2	2254.8	2561.3	2882.9	3083.4	3121.2	3140.1	3015.3
17.5°	1721.4	1725.2	1747.9	1819.8	2024.1	2394.8	2890.4	3291.5	3344.4	3427.7	3257.4
20°	1804.6	1797.1	1819.8	1842.5	1940.8	2247.3	2818.6	3492.0	3594.1	3771.9	3586.6
22.5°	1959.7	1959.7	1971.1	1986.2	2035.4	2235.9	2788.3	3677.4	3851.4	4214.6	3998.9
25°	2220.8	2190.5	2198.1	2179.2	2220.8	2372.1	2856.4	3824.9	4063.3	4706.4	4490.8
27.5°	2625.6	2637.0	2568.9	2466.7	2489.4	2618.0	3022.9	3991.4	4282.7	5217.2	4990.2
30°	3185.5	3166.6	3125.0	2924.5	2833.7	2947.2	3329.3	4263.8	4577.8	5864.1	5656.0
32.5°	3624.4	3677.4	3605.5	3465.5	3325.5	3359.6	3760.6	4702.6	4937.2	6458.1	6344.6
35°	4154.1	4154.1	4169.2	3972.5	3877.9	3870.3	4301.6	5179.3	5413.9	6995.3	7074.8
37.5°	4869.1	4819.9	4736.7	4517.3	4445.4	4540.0	4808.6	5671.2	5924.6	7430.4	7642.3
40°	5470.6	5504.7	5493.3	5175.6	5035.6	5137.7	5376.1	6091.1	6287.8	7710.4	8100.0
42.5°	6060.8	6079.8	6030.6	5879.2	5674.9	5682.5	5879.2	6408.9	6609.4	7979.0	8531.3
45°	6503.5	6499.7	6465.7	6427.8	6306.8	6181.9	6216.0	6760.8	6934.8	8066.0	8765.9
47.5°	6643.5	6673.7	6704.0	6809.9	6893.2	6696.4	6522.4	6949.9	7108.8	8050.9	8852.9
50°	6514.8	6579.2	6726.7	6885.6	7169.3	7154.2	6779.7	7154.2	7309.3	8134.1	8955.1
52.5°	6227.3	6291.6	6488.4	6775.9	7203.4	7415.3	7256.4	7498.5	7680.1	8346.0	9166.9
55°	5557.7	5584.1	5989.0	6367.3	7033.1	7301.8	7767.1	8081.1	8232.5	8603.2	9446.9
57.5°	4524.8	4589.1	4986.4	5603.1	6556.5	7002.9	8058.4	9076.1	9072.3	8849.1	9507.4
60°	*2977.5*	*3166.6*	*3813.6*	*4494.6*	*5633.3*	*6416.5*	*8039.5*	*10241.4*	*10358.7*	*8607.0*	*8777.2*
62.5°	2273.8	2353.2	2720.2	3287.7	4169.2	5319.3	7914.7	10589.4	10680.2	7956.3	7683.9
65°	1710.1	1808.4	2160.3	2667.2	2943.4	3605.5	7097.5	9204.8	9329.6	7101.2	5973.8
67.5°	1048.0	1127.4	1596.6	2190.5	2228.4	2239.7	4789.7	6972.6	7018.0	5727.9	4021.6
70°	699.9	779.4	1104.7	1683.6	1774.4	1290.1	2629.4	5277.7	5273.9	3919.5	2444.0
72.5°	404.8	442.6	699.9	1240.9	1396.0	821.0	1312.8	3355.8	3208.2	1842.5	1142.6
75°	230.8	257.3	385.9	798.3	979.9	522.1	518.3	1797.1	1589.0	949.6	624.2
77.5°	140.0	151.3	211.9	522.1	590.2	351.8	287.5	836.1	805.8	556.1	329.1
80°	68.1	79.4	128.6	306.4	378.3	189.2	174.0	329.1	351.8	306.4	174.0
82.5°	22.7	30.3	71.9	117.3	245.9	75.7	71.9	181.6	192.9	181.6	83.2
85°	11.3	15.1	34.0	37.8	94.6	37.8	26.5	79.4	98.4	60.5	34.0
87.5°	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.6	7.6	7.6	7.6
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2322.9	2315.4	2300.2	2273.8	2270.0	2251.1	2220.8	2201.9	2186.7	2198.1	2201.9
5°	2364.6	2345.6	2300.2	2228.4	2152.7	2077.0	2005.1	1921.9	1865.2	1857.6	1842.5
7.5°	2440.2	2402.4	2304.0	2164.0	1971.1	1789.5	1577.6	1373.3	1271.2	1256.1	1222.0
10°	2561.3	2497.0	2334.3	2050.5	1679.8	1301.5	979.9	760.4	635.6	612.9	620.5
12.5°	2705.1	2614.3	2338.1	1857.6	1278.8	805.8	556.1	472.9	446.4	435.1	435.1
15°	2890.4	2758.0	2334.3	1607.9	862.6	518.3	446.4	412.4	401.0	393.5	393.5
17.5°	3125.0	2951.0	2307.8	1233.4	582.6	450.2	408.6	382.1	367.0	363.2	363.2
20°	3401.2	3166.6	2247.3	919.3	488.0	419.9	385.9	351.8	340.5	332.9	332.9
22.5°	3753.0	3427.7	2130.0	715.0	461.6	401.0	363.2	325.4	314.0	306.4	306.4
25°	4161.6	3760.6	1974.9	643.2	457.8	385.9	340.5	302.7	291.3	287.5	283.7
27.5°	4645.9	4116.2	1831.1	646.9	465.3	374.5	317.8	283.7	272.4	261.0	264.8
30°	5217.2	4483.2	1713.8	692.3	472.9	363.2	302.7	272.4	261.0	245.9	245.9
32.5°	5780.9	4914.5	1702.5	775.6	499.4	355.6	287.5	257.3	245.9	234.6	234.6
35°	6359.7	5308.0	1766.8	885.3	552.4	344.3	268.6	242.1	230.8	223.2	219.4
37.5°	6912.1	5622.0	1827.3	953.4	522.1	295.1	245.9	223.2	211.9	196.7	196.7
40°	7279.1	5792.2	1838.7	900.4	431.3	264.8	223.2	200.5	185.4	177.8	174.0
42.5°	7547.7	5901.9	1710.1	730.2	374.5	242.1	204.3	181.6	170.2	162.7	162.7
45°	7657.4	5864.1	1490.6	556.1	344.3	223.2	185.4	166.5	158.9	151.3	151.3
47.5°	7642.3	5690.1	1267.4	446.4	314.0	204.3	174.0	158.9	151.3	143.8	140.0
50°	7615.8	5527.4	1040.4	397.2	280.0	192.9	162.7	151.3	140.0	132.4	128.6
52.5°	7789.8	5474.4	862.6	363.2	261.0	185.4	158.9	143.8	132.4	124.8	124.8
55°	7963.8	5497.1	677.2	340.5	242.1	181.6	155.1	140.0	128.6	117.3	117.3
57.5°	7952.5	5398.8	514.5	317.8	227.0	177.8	151.3	136.2	117.3	109.7	109.7
60°	*7229.9*	*4816.1*	*401.0*	*291.3*	*208.1*	*166.5*	*140.0*	*128.6*	*109.7*	*98.4*	*98.4*
62.5°	6113.8	3787.1	329.1	257.3	185.4	151.3	128.6	117.3	98.4	79.4	79.4
65°	4517.3	2731.5	264.8	223.2	170.2	132.4	117.3	102.1	79.4	64.3	60.5
67.5°	3056.9	1679.8	211.9	185.4	151.3	113.5	98.4	87.0	71.9	53.0	49.2
70°	1812.2	892.9	155.1	128.6	113.5	83.2	83.2	75.7	60.5	45.4	41.6
72.5°	862.6	310.2	113.5	94.6	87.0	60.5	64.3	64.3	49.2	34.0	30.3
75°	438.9	151.3	75.7	68.1	56.7	45.4	53.0	49.2	34.0	22.7	22.7
77.5°	249.7	105.9	53.0	45.4	37.8	30.3	34.0	30.3	18.9	11.3	11.3
80°	140.0	75.7	34.0	30.3	22.7	18.9	18.9	15.1	11.3	3.8	3.8
82.5°	53.0	45.4	22.7	15.1	11.3	11.3	7.6	7.6	3.8	0.0	0.0
85°	22.7	11.3	11.3	7.6	7.6	3.8	3.8	3.8	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2171.6	2179.2	2186.7	2217.0	2224.6	2247.3	2266.2	2288.9	2292.7	2322.9	2322.9
5°	1872.7	1868.9	1933.3	2027.8	2088.4	2171.6	2235.9	2304.0	2341.9	2391.0	2413.7
7.5°	1240.9	1335.5	1479.3	1645.7	1861.4	2061.9	2213.2	2345.6	2436.4	2493.2	2515.9
10°	616.7	669.6	821.0	1093.4	1460.4	1868.9	2190.5	2436.4	2584.0	2648.3	2689.9
12.5°	435.1	446.4	472.9	620.5	972.3	1551.2	2118.6	2534.8	2739.1	2860.2	2913.1
15°	389.7	397.2	408.6	450.2	601.5	1157.7	1990.0	2644.5	2981.2	3121.2	3189.3
17.5°	359.4	363.2	374.5	408.6	472.9	786.9	1781.9	2761.8	3272.6	3442.8	3571.4
20°	332.9	332.9	344.3	385.9	438.9	605.3	1483.1	2894.2	3643.3	3889.2	4017.9
22.5°	302.7	310.2	317.8	363.2	427.5	552.4	1203.1	2996.4	4055.7	4354.6	4505.9
25°	280.0	287.5	295.1	340.5	416.2	552.4	1040.4	3060.7	4517.3	4872.9	5081.0
27.5°	261.0	268.6	280.0	325.4	404.8	575.1	976.1	3079.6	5020.4	5482.0	5762.0
30°	245.9	253.5	264.8	314.0	412.4	601.5	998.8	3053.1	5531.2	6110.0	6443.0
32.5°	230.8	238.3	249.7	302.7	412.4	635.6	1074.5	3000.2	6026.8	6738.1	7146.6
35°	219.4	223.2	227.0	272.4	374.5	631.8	1169.0	2947.2	6526.2	7358.5	7835.2
37.5°	196.7	200.5	208.1	234.6	298.9	575.1	1188.0	2882.9	6919.7	7880.6	8406.5
40°	174.0	181.6	189.2	215.6	249.7	465.3	1104.7	2746.7	7127.7	8281.6	8921.0
42.5°	158.9	162.7	170.2	196.7	230.8	370.8	926.9	2508.3	7313.1	8554.0	9295.6
45°	147.5	151.3	158.9	177.8	215.6	321.6	730.2	2217.0	7328.2	8641.1	9477.2
47.5°	136.2	140.0	143.8	162.7	208.1	287.5	559.9	1952.2	7324.5	8754.5	9632.3
50°	128.6	132.4	140.0	155.1	196.7	257.3	461.6	1736.5	7483.4	9000.5	9946.3
52.5°	124.8	124.8	136.2	151.3	185.4	234.6	385.9	1543.6	7566.6	9242.6	10173.3
55°	117.3	121.1	128.6	143.8	174.0	223.2	329.1	1301.5	7604.4	9363.7	10214.9
57.5°	109.7	113.5	124.8	136.2	166.5	211.9	283.7	972.3	7063.4	8731.8	9518.8
60°	*98.4*	*105.9*	*121.1*	*132.4*	*155.1*	*192.9*	*249.7*	*658.3*	*5958.7*	*7589.3*	*8247.6*
62.5°	79.4	94.6	109.7	117.3	140.0	162.7	211.9	438.9	4759.4	6280.3	7029.4
65°	60.5	79.4	90.8	102.1	117.3	136.2	177.8	298.9	3174.2	4225.9	5069.6
67.5°	53.0	68.1	75.7	83.2	98.4	117.3	143.8	208.1	1925.7	2538.6	3370.9
70°	41.6	56.7	64.3	60.5	75.7	90.8	102.1	140.0	983.7	1377.1	1918.1
72.5°	30.3	45.4	49.2	49.2	45.4	64.3	75.7	98.4	427.5	669.6	870.2
75°	22.7	30.3	34.0	30.3	26.5	41.6	53.0	64.3	280.0	401.0	507.0
77.5°	11.3	11.3	18.9	18.9	11.3	22.7	26.5	37.8	158.9	234.6	291.3
80°	3.8	0.0	0.0	3.8	0.0	7.6	11.3	18.9	83.2	124.8	181.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	41.6	37.8	94.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	22.7
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	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1501961
CATALOG NUMBER: GSS-SB4A-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2315.4	*2315.4*	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2341.9	*2341.9*	2357.0	2379.7	2391.0	2398.6	2402.4	2410.0	2440.2	2432.7
5°	2440.2	*2447.8*	2459.1	2481.8	2508.3	2500.8	2500.8	2500.8	2519.7	2504.5
7.5°	2568.9	*2591.6*	2595.3	2621.8	2602.9	2565.1	2542.4	2508.3	2504.5	2504.5
10°	2776.9	*2769.4*	2769.4	2735.3	2667.2	2557.5	2459.1	2391.0	2353.2	2357.0
12.5°	3000.2	*2969.9*	2973.7	2848.8	2655.9	2413.7	2213.2	2065.7	2054.3	2043.0
15°	3276.3	*3196.9*	3181.8	2894.2	2485.6	2114.9	1918.1	1800.8	1763.0	1751.7
17.5°	3669.8	*3469.3*	3397.4	2814.8	2262.4	1929.5	1781.9	1729.0	1725.2	1721.4
20°	4086.0	*3688.7*	3552.5	2697.5	2186.7	1933.3	1823.5	1808.4	1800.8	1804.6
22.5°	4570.2	*3828.7*	3654.7	2716.4	2254.8	2058.1	1971.1	1959.7	1952.2	1959.7
25°	5069.6	*3991.4*	3775.7	2867.7	2459.1	2288.9	2186.7	2164.0	2186.7	2220.8
27.5°	5572.8	*4210.8*	4014.1	3166.6	2788.3	2602.9	2504.5	2587.8	2621.8	2625.6
30°	6019.2	*4517.3*	4335.7	3586.6	3162.8	2977.5	2996.4	3102.3	3143.9	3185.5
32.5°	6427.8	*4925.9*	4785.9	4063.3	3647.1	3537.4	3526.0	3605.5	3650.9	3624.4
35°	6840.2	*5459.3*	5323.1	4581.6	4241.1	4150.3	4055.7	4210.8	4195.7	4154.1
37.5°	7229.9	*5996.5*	5871.7	5137.7	4785.9	4627.0	4611.8	4751.8	4876.7	4869.1
40°	7509.8	*6431.6*	6280.3	5690.1	5357.1	5220.9	5300.4	5542.5	5512.3	5470.6
42.5°	7767.1	*6802.4*	6666.2	6174.3	5826.3	5886.8	5958.7	6121.4	6102.5	6060.8
45°	7888.2	*7120.2*	7002.9	6541.3	6371.1	6564.0	6560.2	6620.8	6518.6	6503.5
47.5°	8058.4	*7347.2*	7226.1	6870.5	7021.8	7101.2	6878.0	6813.7	6719.1	6643.5
50°	8372.4	*7699.0*	7577.9	7369.9	7498.5	7252.6	6980.2	6840.2	6647.3	6514.8
52.5°	8739.4	*8232.5*	8126.5	8043.3	7683.9	7176.9	6828.9	6575.4	6340.8	6227.3
55°	9201.0	*9019.4*	8943.7	8485.9	7517.4	6866.7	6458.1	5985.2	5663.6	5557.7
57.5°	9352.3	*10173.3*	10146.8	8557.8	7052.1	6303.0	5565.2	4925.9	4592.9	4524.8
60°	*8905.9*	*11077.5*	*10982.9*	*8436.8*	*6208.4*	*5115.0*	*4252.4*	*3597.9*	*3056.9*	*2977.5*
62.5°	8334.6	*10385.2*	10351.1	7827.6	4729.1	3666.0	3178.0	2565.1	2334.3	2273.8
65°	7139.1	*8497.3*	8512.4	6280.3	2992.6	2633.2	2610.5	2039.2	1755.4	1710.1
67.5°	5497.1	*6518.6*	6412.7	3949.8	1744.1	2107.3	2084.6	1490.6	1078.2	1048.0
70°	3212.0	*4854.0*	4683.7	2054.3	1153.9	1759.2	1604.1	1048.0	734.0	699.9
72.5°	1418.7	*2671.0*	2867.7	904.2	813.4	1399.8	1157.7	643.2	412.4	404.8
75°	786.9	*1324.2*	1384.7	393.5	571.3	995.0	699.9	359.4	234.6	230.8
77.5°	472.9	*586.4*	571.3	253.5	427.5	635.6	423.7	204.3	147.5	140.0
80°	264.8	*268.6*	227.0	185.4	253.5	355.6	238.3	128.6	68.1	68.1
82.5°	162.7	*147.5*	117.3	56.7	68.1	215.6	87.0	71.9	22.7	22.7
85°	68.1	*45.4*	30.3	11.3	26.5	56.7	30.3	34.0	11.3	11.3
87.5°	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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

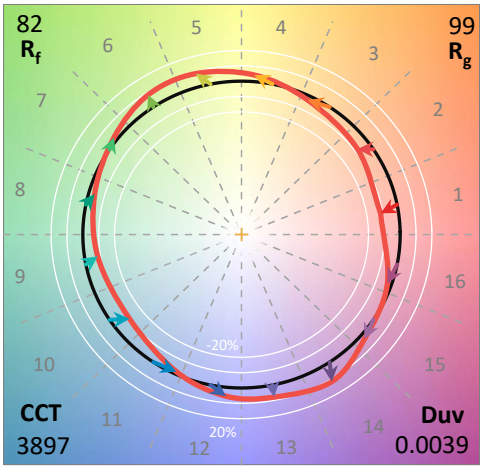
Test Information

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
Rf:	81.8
Rg:	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

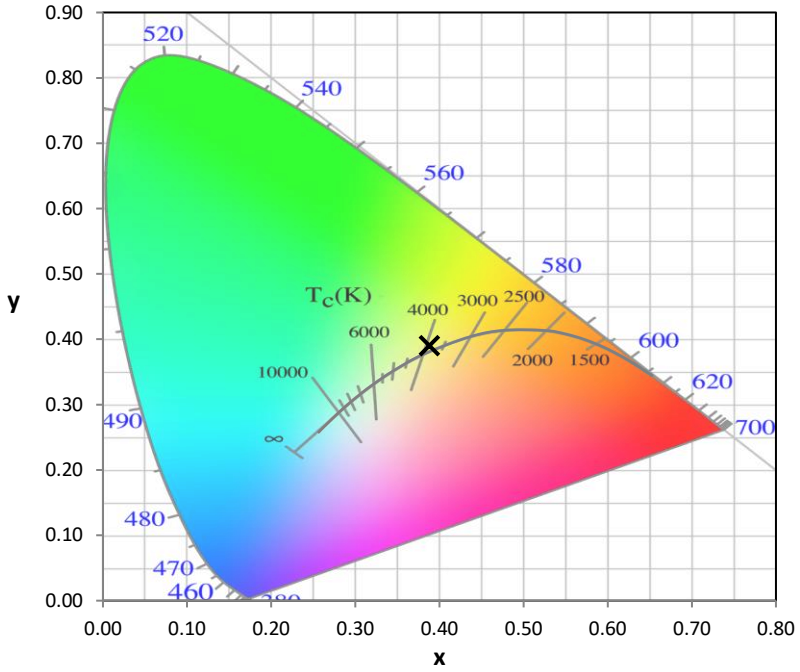
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

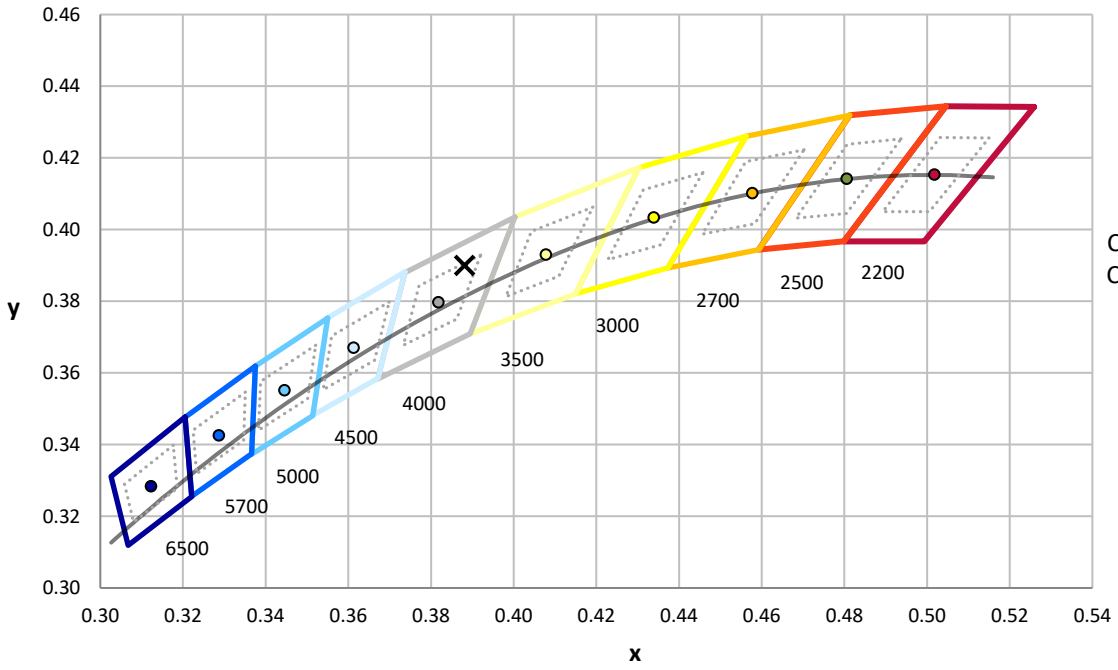
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

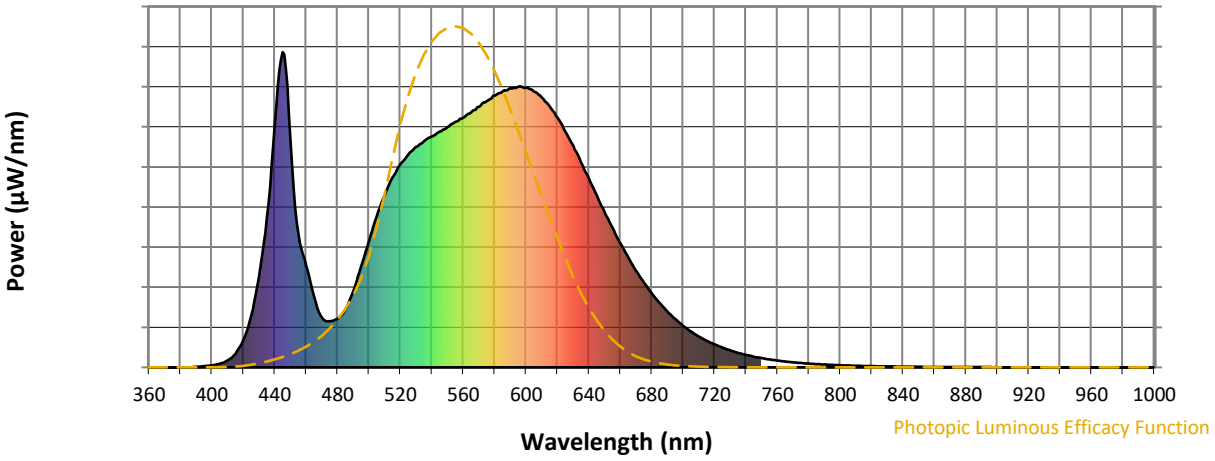


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

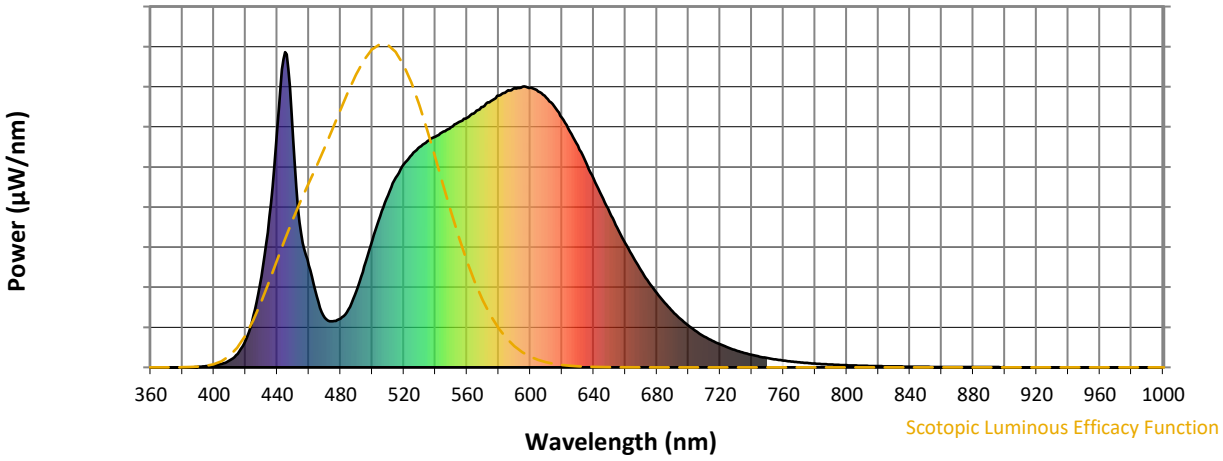


Photopic Lumens: NR

λ (nm)	Power 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			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

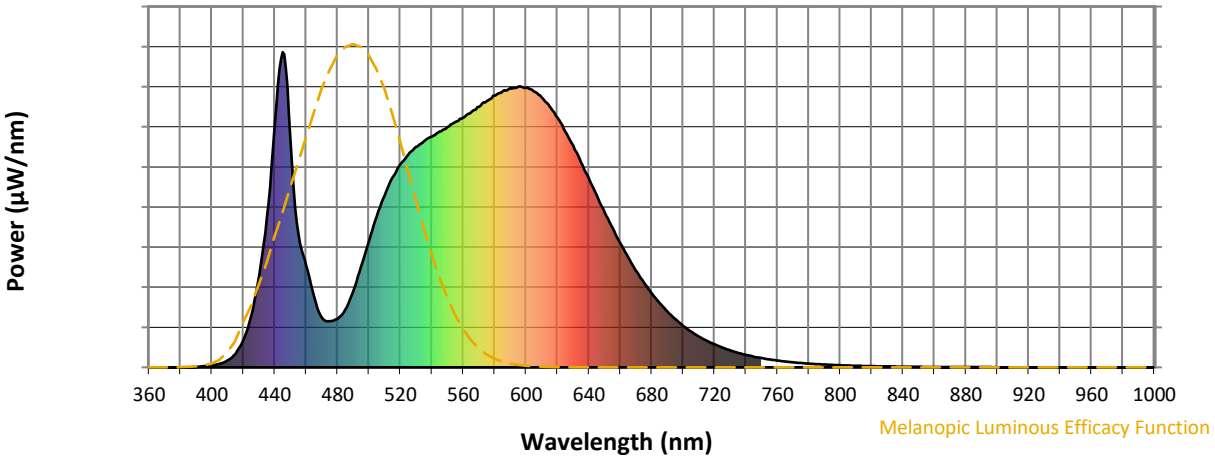


Scotopic Lumens: NR **S/P: 1.57**

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			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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			

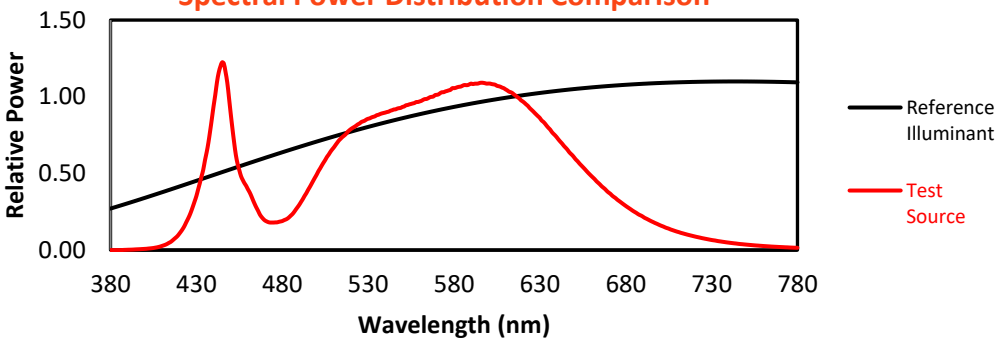
REPORT NUMBER: SP1-2407-184-11

TM-30-18

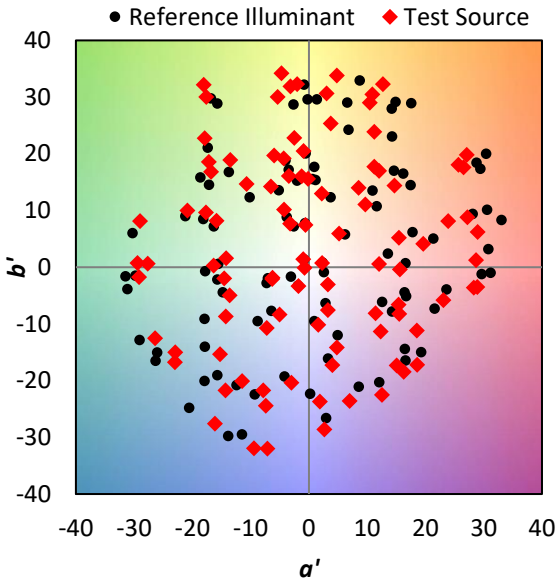
Summary

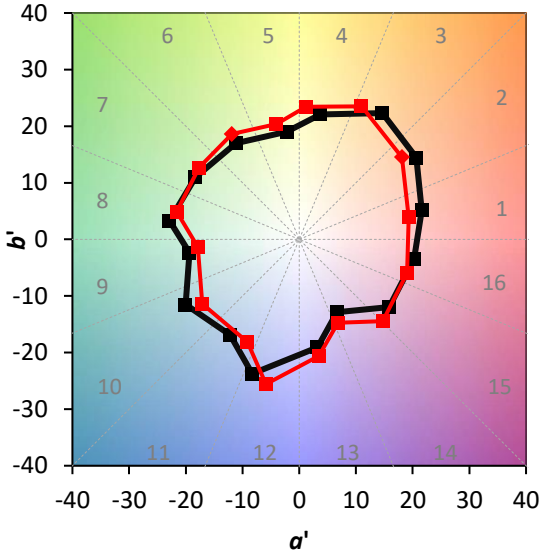
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

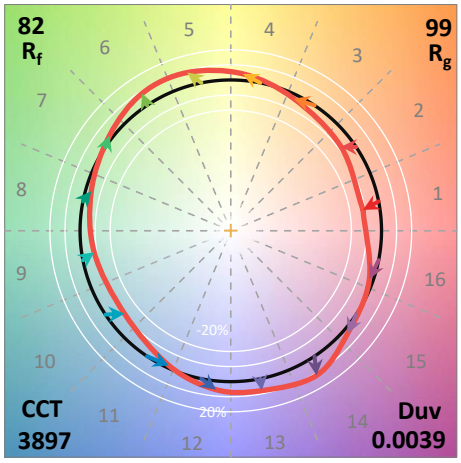
Spectral Power Distribution Comparison

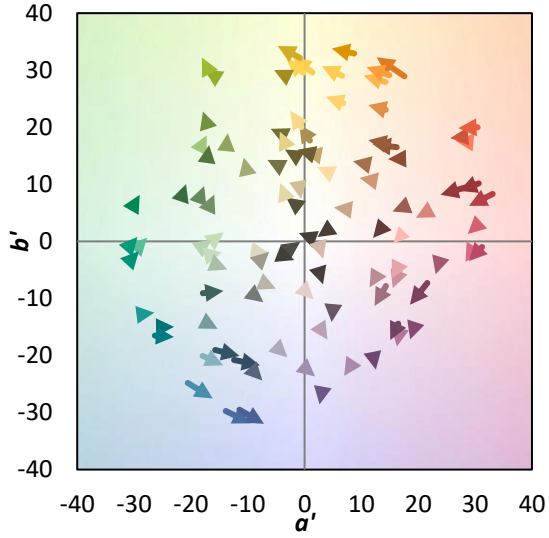


Color Vector Graphics







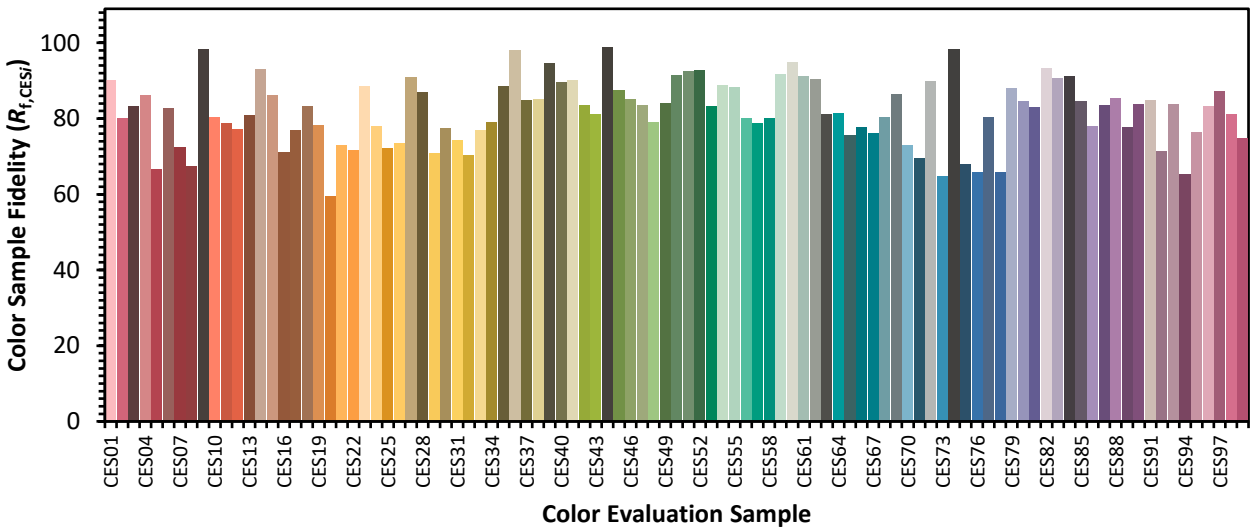


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Individual Sample Fidelity Index ($R_{f,i}$)

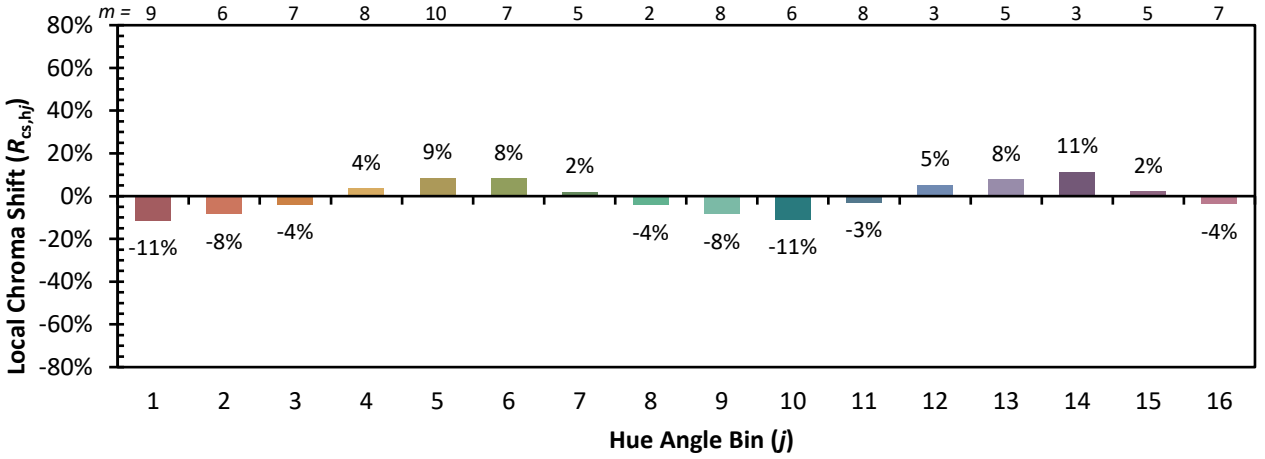
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CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 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	

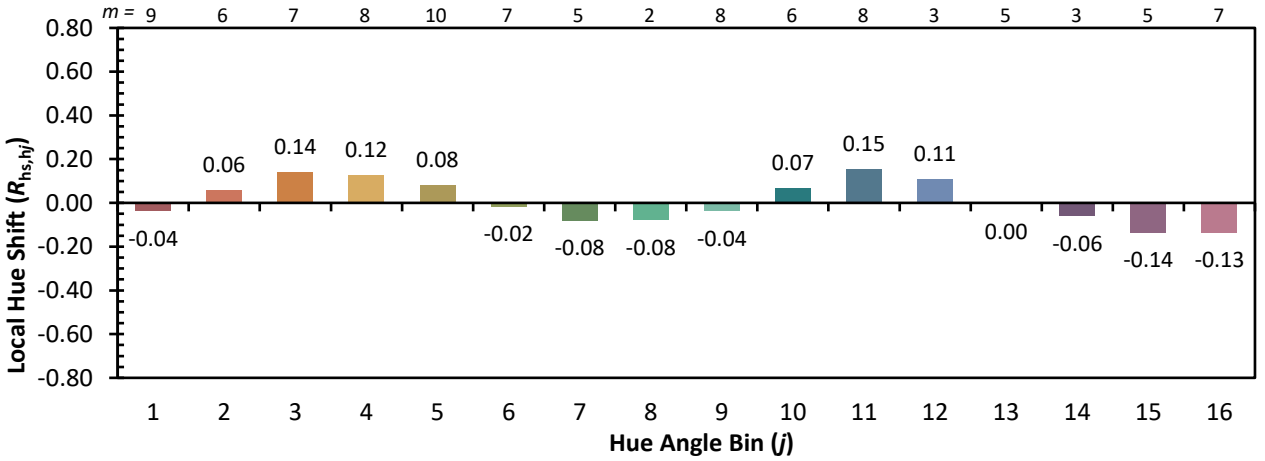


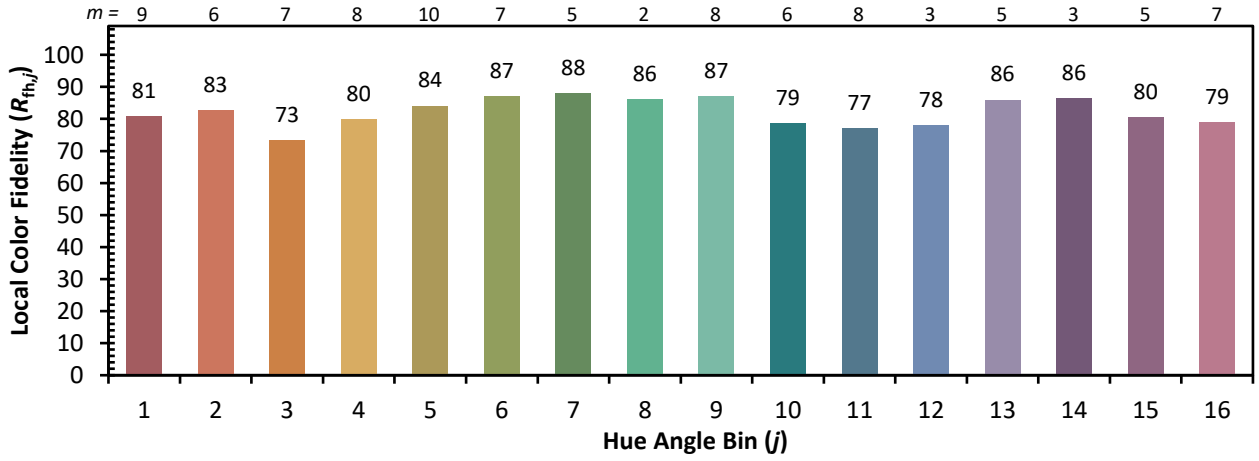
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Color Rendition by Hue-Angle Bin



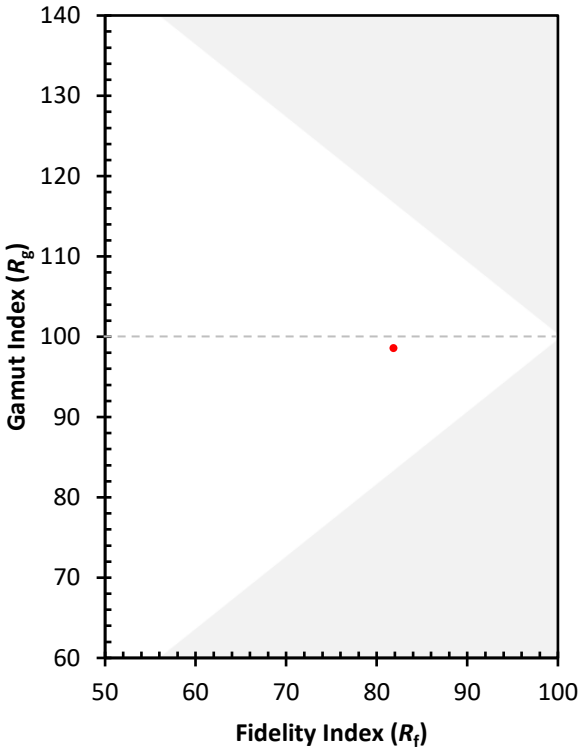


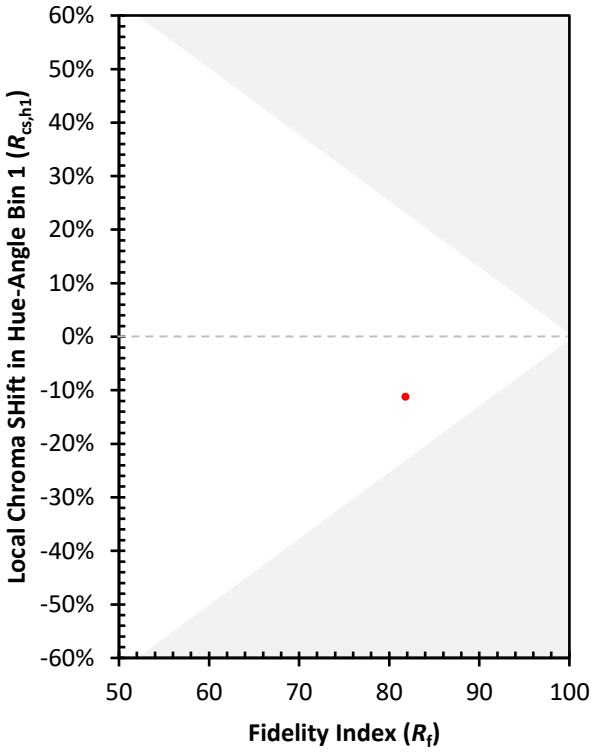


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Measure Comparisons





(END OF REPORT)