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: P1501721

Luminaire Tested: GSS-SB4A-740-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501721
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-740-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14944.1 lumens
Efficiency:	N/A
Efficacy:	131.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

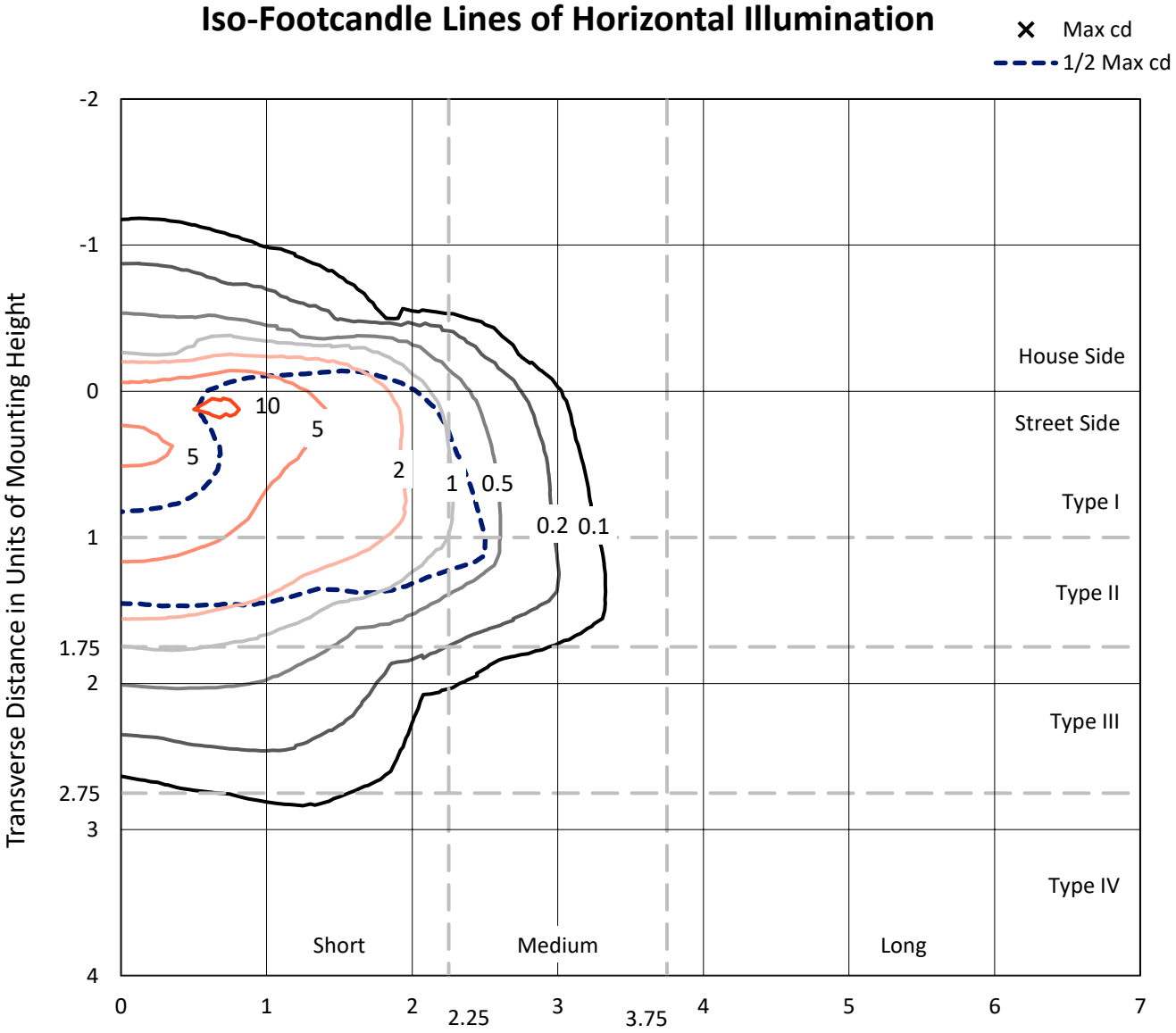
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



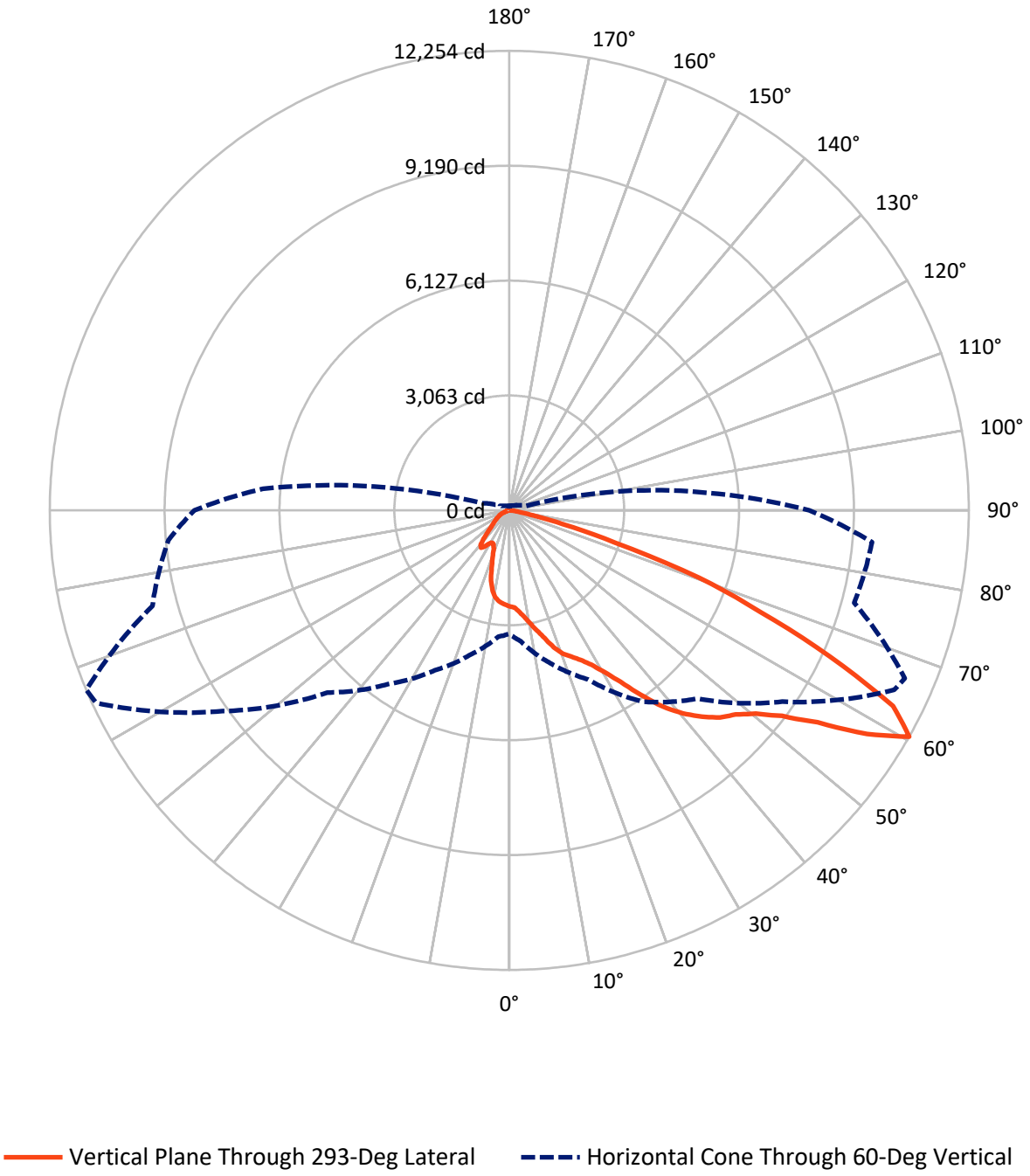
Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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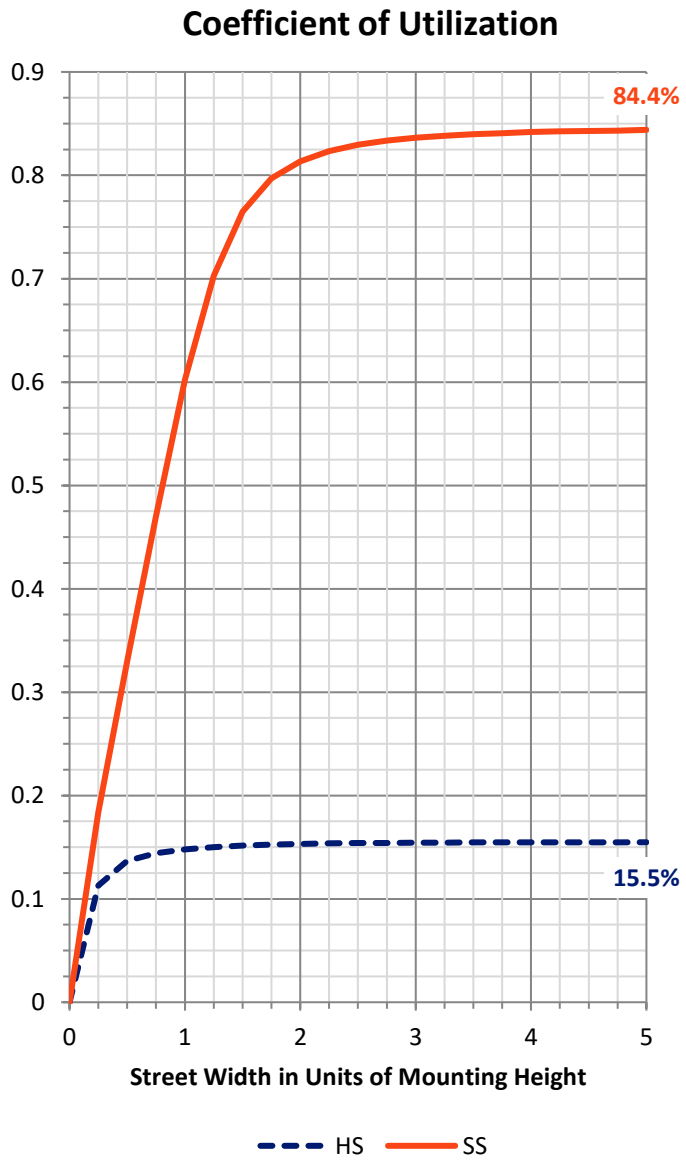
REPORT NUMBER: P1501721
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2331.6	0.0	2331.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	12612.4	0.0	12612.4
	% Fixture	84.4	0.0	84.4
Total	Lumens	14944.1	0.0	14944.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.9	1.6
10°-20°	584.1	3.9
20°-30°	1090.4	7.3
30°-40°	2162.3	14.5
40°-50°	3447.6	23.1
50°-60°	4119.0	27.6
60°-70°	2700.2	18.1
70°-80°	565.7	3.8
80°-90°	42.8	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°	14944.1	100.0
0°-180°	14944.1	100.0



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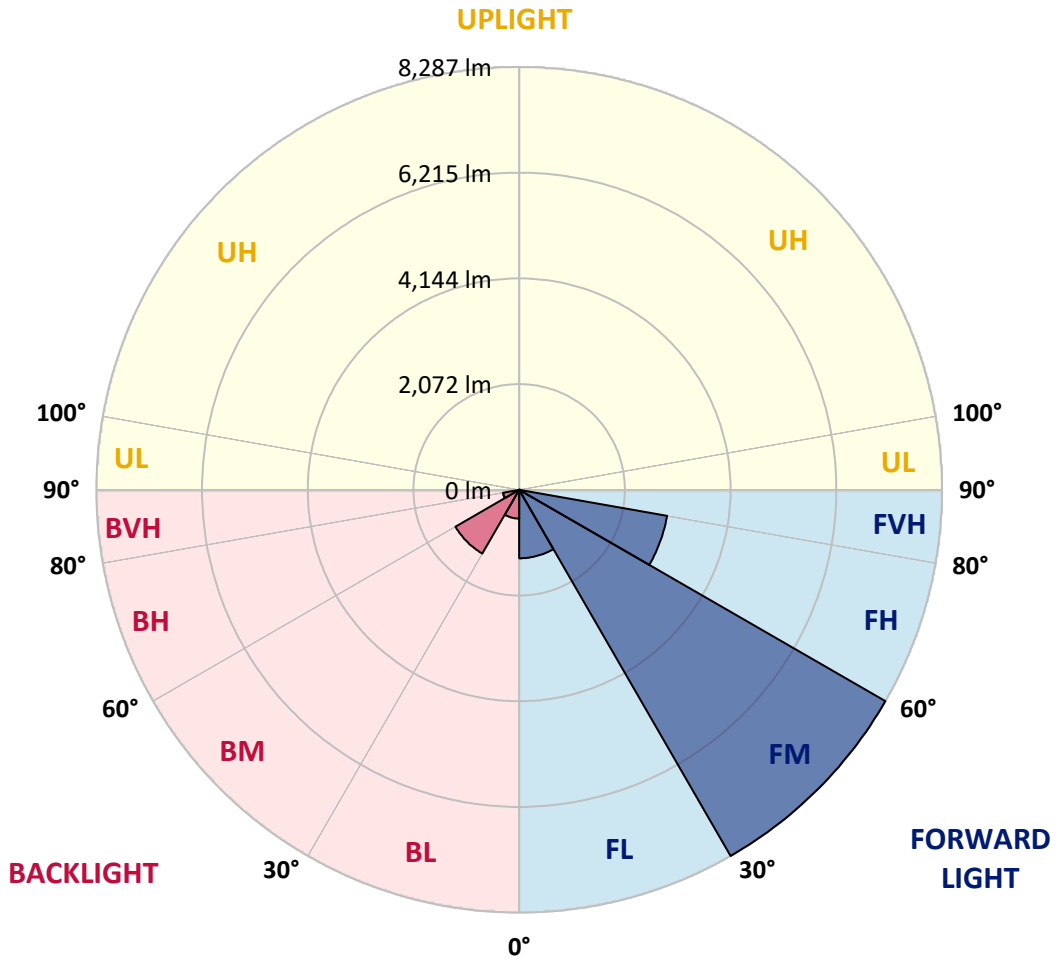
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1342.3	9.0			
FM	(30°-60°)	8287.0	55.5			
FH	(60°-80°)	2943.9	19.7			G2/5000
FVH	(80°-90°)	39.2	0.3			G1/100
BL	(0°-30°)	564.1	3.8	B2/1000		
BM	(30°-60°)	1441.9	9.6	B2/2500		
BH	(60°-80°)	322.1	2.2	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2691.0	2682.6	2670.1	2674.3	2670.1	2653.3	2628.2	2607.3	2624.0	2598.9	2582.2
5°	2770.5	2770.5	2762.1	2762.1	2766.3	2758.0	2741.2	2711.9	2716.1	2695.2	2640.8
7.5°	2770.5	2758.0	2778.9	2799.8	2837.5	2858.4	2866.8	2850.0	2858.4	2816.5	2745.4
10°	2607.3	2598.9	2653.3	2732.8	2841.7	2937.9	3000.7	3004.9	3017.4	2975.6	2891.9
12.5°	2259.9	2243.2	2352.0	2502.7	2724.5	2946.3	3122.1	3189.0	3218.3	3201.6	3084.4
15°	1937.7	1958.6	2033.9	2197.2	2494.3	2833.3	3189.0	3410.8	3452.7	3473.6	3335.5
17.5°	1904.2	1908.4	1933.5	2013.0	2239.0	2649.1	3197.4	3641.0	3699.6	3791.7	3603.3
20°	1996.3	1987.9	2013.0	2038.1	2146.9	2485.9	3117.9	3862.8	3975.8	4172.5	3967.4
22.5°	2167.9	2167.9	2180.4	2197.2	2251.6	2473.4	3084.4	4067.9	4260.4	4662.2	4423.6
25°	2456.6	2423.2	2431.5	2410.6	2456.6	2624.0	3159.7	4231.1	4494.8	5206.2	4967.7
27.5°	2904.4	2917.0	2841.7	2728.7	2753.8	2896.1	3343.9	4415.2	4737.5	5771.2	5520.1
30°	3523.8	3502.9	3456.9	3235.1	3134.6	3260.2	3682.9	4716.6	5063.9	6486.8	6256.7
32.5°	4009.3	4067.9	3988.4	3833.5	3678.7	3716.3	4160.0	5202.0	5461.5	7143.9	7018.4
35°	4595.2	4595.2	4611.9	4394.3	4289.7	4281.3	4758.4	5729.4	5988.8	7738.2	7826.1
37.5°	5386.2	5331.8	5239.7	4997.0	4917.4	5022.1	5319.2	6273.4	6553.8	8219.5	8453.8
40°	6051.6	6089.3	6076.7	5725.2	5570.3	5683.3	5947.0	6738.0	6955.6	8529.2	8960.2
42.5°	6704.5	6725.4	6671.0	6503.6	6277.6	6286.0	6503.6	7089.5	7311.3	8826.3	9437.3
45°	7194.1	7189.9	7152.3	7110.4	6976.5	6838.4	6876.1	7478.7	7671.2	8922.6	9696.8
47.5°	7349.0	7382.5	7415.9	7533.1	7625.2	7407.6	7215.0	7688.0	7863.7	8905.8	9793.0
50°	7206.7	7277.8	7441.0	7616.8	7930.7	7914.0	7499.6	7914.0	8085.5	8997.9	9906.0
52.5°	6888.6	6959.8	7177.4	7495.4	7968.4	8202.7	8027.0	8294.8	8495.7	9232.2	10140.4
55°	6147.9	6177.2	6625.0	7043.5	7780.0	8077.2	8591.9	8939.3	9106.7	9516.8	10450.1
57.5°	5005.3	5076.5	5515.9	6198.1	7252.7	7746.6	8914.2	10040.0	10035.8	9788.9	10517.1
60°	*3293.6*	*3502.9*	*4218.5*	*4971.9*	*6231.6*	*7097.9*	*8893.3*	*11329.0*	*11458.7*	*9521.0*	*9709.3*
62.5°	2515.2	2603.1	3009.1	3636.8	4611.9	5884.2	8755.2	11714.0	11814.4	8801.2	8499.9
65°	1891.6	2000.5	2389.7	2950.5	3256.0	3988.4	7851.2	10182.3	10320.4	7855.4	6608.2
67.5°	1159.3	1247.1	1766.1	2423.2	2465.0	2477.6	5298.3	7713.1	7763.3	6336.2	4448.7
70°	774.2	862.1	1222.0	1862.4	1962.8	1427.1	2908.6	5838.2	5834.0	4335.7	2703.6
72.5°	447.8	489.7	774.2	1372.7	1544.3	908.2	1452.2	3712.2	3548.9	2038.1	1263.9
75°	255.3	284.6	426.9	883.0	1083.9	577.5	573.4	1987.9	1757.7	1050.5	690.5
77.5°	154.8	167.4	234.4	577.5	652.9	389.2	318.1	924.9	891.4	615.2	364.1
80°	75.3	87.9	142.3	339.0	418.5	209.3	192.5	364.1	389.2	339.0	192.5
82.5°	25.1	33.5	79.5	129.7	272.0	83.7	79.5	200.9	213.4	200.9	92.1
85°	12.6	16.7	37.7	41.9	104.6	41.9	29.3	87.9	108.8	67.0	37.7
87.5°	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.4	8.4	8.4	8.4
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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CATALOG NUMBER: GSS-SB4A-740-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2569.6	2561.3	2544.5	2515.2	2511.0	2490.1	2456.6	2435.7	2419.0	2431.5	2435.7
5°	2615.7	2594.7	2544.5	2465.0	2381.3	2297.6	2218.1	2126.0	2063.2	2054.9	2038.1
7.5°	2699.4	2657.5	2548.7	2393.9	2180.4	1979.5	1745.2	1519.2	1406.2	1389.4	1351.8
10°	2833.3	2762.1	2582.2	2268.3	1858.2	1439.7	1083.9	841.2	703.1	678.0	686.4
12.5°	2992.3	2891.9	2586.4	2054.9	1414.6	891.4	615.2	523.1	493.8	481.3	481.3
15°	3197.4	3050.9	2582.2	1778.7	954.2	573.4	493.8	456.2	443.6	435.2	435.2
17.5°	3456.9	3264.3	2552.9	1364.3	644.5	498.0	452.0	422.7	406.0	401.8	401.8
20°	3762.4	3502.9	2485.9	1017.0	539.9	464.5	426.9	389.2	376.7	368.3	368.3
22.5°	4151.6	3791.7	2356.2	791.0	510.6	443.6	401.8	359.9	347.4	339.0	339.0
25°	4603.6	4160.0	2184.6	711.5	506.4	426.9	376.7	334.8	322.2	318.1	313.9
27.5°	5139.3	4553.3	2025.6	715.6	514.8	414.3	351.5	313.9	301.3	288.8	293.0
30°	5771.2	4959.3	1895.8	765.9	523.1	401.8	334.8	301.3	288.8	272.0	272.0
32.5°	6394.8	5436.4	1883.3	857.9	552.4	393.4	318.1	284.6	272.0	259.5	259.5
35°	7035.1	5871.6	1954.4	979.3	611.0	380.8	297.1	267.8	255.3	246.9	242.7
37.5°	7646.1	6219.0	2021.4	1054.6	577.5	326.4	272.0	246.9	234.4	217.6	217.6
40°	8052.1	6407.3	2033.9	996.0	477.1	293.0	246.9	221.8	205.1	196.7	192.5
42.5°	8349.2	6528.7	1891.6	807.7	414.3	267.8	226.0	200.9	188.3	180.0	180.0
45°	8470.6	6486.8	1648.9	615.2	380.8	246.9	205.1	184.1	175.8	167.4	167.4
47.5°	8453.8	6294.3	1402.0	493.8	347.4	226.0	192.5	175.8	167.4	159.0	154.8
50°	8424.5	6114.4	1150.9	439.4	309.7	213.4	180.0	167.4	154.8	146.5	142.3
52.5°	8617.0	6055.8	954.2	401.8	288.8	205.1	175.8	159.0	146.5	138.1	138.1
55°	8809.6	6080.9	749.1	376.7	267.8	200.9	171.6	154.8	142.3	129.7	129.7
57.5°	8797.0	5972.1	569.2	351.5	251.1	196.7	167.4	150.7	129.7	121.4	121.4
60°	*7997.7*	*5327.6*	*443.6*	*322.2*	*230.2*	*184.1*	*154.8*	*142.3*	*121.4*	*108.8*	*108.8*
62.5°	6763.1	4189.2	364.1	284.6	205.1	167.4	142.3	129.7	108.8	87.9	87.9
65°	4997.0	3021.6	293.0	246.9	188.3	146.5	129.7	113.0	87.9	71.1	67.0
67.5°	3381.5	1858.2	234.4	205.1	167.4	125.6	108.8	96.3	79.5	58.6	54.4
70°	2004.6	987.7	171.6	142.3	125.6	92.1	92.1	83.7	67.0	50.2	46.0
72.5°	954.2	343.2	125.6	104.6	96.3	67.0	71.1	71.1	54.4	37.7	33.5
75°	485.5	167.4	83.7	75.3	62.8	50.2	58.6	54.4	37.7	25.1	25.1
77.5°	276.2	117.2	58.6	50.2	41.9	33.5	37.7	33.5	20.9	12.6	12.6
80°	154.8	83.7	37.7	33.5	25.1	20.9	20.9	16.7	12.6	4.2	4.2
82.5°	58.6	50.2	25.1	16.7	12.6	12.6	8.4	8.4	4.2	0.0	0.0
85°	25.1	12.6	12.6	8.4	8.4	4.2	4.2	4.2	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	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°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2402.2	2410.6	2419.0	2452.4	2460.8	2485.9	2506.9	2532.0	2536.1	2569.6	2569.6
5°	2071.6	2067.4	2138.6	2243.2	2310.2	2402.2	2473.4	2548.7	2590.6	2645.0	2670.1
7.5°	1372.7	1477.3	1636.4	1820.5	2059.1	2280.9	2448.3	2594.7	2695.2	2758.0	2783.1
10°	682.2	740.8	908.2	1209.5	1615.4	2067.4	2423.2	2695.2	2858.4	2929.5	2975.6
12.5°	481.3	493.8	523.1	686.4	1075.6	1715.9	2343.6	2804.0	3030.0	3163.9	3222.5
15°	431.1	439.4	452.0	498.0	665.4	1280.6	2201.3	2925.4	3297.8	3452.7	3528.0
17.5°	397.6	401.8	414.3	452.0	523.1	870.5	1971.2	3055.1	3620.1	3808.4	3950.7
20°	368.3	368.3	380.8	426.9	485.5	669.6	1640.5	3201.6	4030.2	4302.2	4444.5
22.5°	334.8	343.2	351.5	401.8	472.9	611.0	1330.9	3314.6	4486.4	4817.0	4984.4
25°	309.7	318.1	326.4	376.7	460.4	611.0	1150.9	3385.7	4997.0	5390.4	5620.5
27.5°	288.8	297.1	309.7	359.9	447.8	636.1	1079.7	3406.6	5553.6	6064.2	6373.9
30°	272.0	280.4	293.0	347.4	456.2	665.4	1104.9	3377.3	6118.6	6758.9	7127.2
32.5°	255.3	263.7	276.2	334.8	456.2	703.1	1188.6	3318.8	6666.8	7453.6	7905.6
35°	242.7	246.9	251.1	301.3	414.3	698.9	1293.2	3260.2	7219.2	8139.9	8667.3
37.5°	217.6	221.8	230.2	259.5	330.6	636.1	1314.1	3189.0	7654.5	8717.5	9299.2
40°	192.5	200.9	209.3	238.5	276.2	514.8	1222.0	3038.4	7884.7	9161.1	9868.4
42.5°	175.8	180.0	188.3	217.6	255.3	410.1	1025.3	2774.7	8089.7	9462.4	10282.7
45°	163.2	167.4	175.8	196.7	238.5	355.7	807.7	2452.4	8106.5	9558.7	10483.6
47.5°	150.7	154.8	159.0	180.0	230.2	318.1	619.4	2159.5	8102.3	9684.2	10655.2
50°	142.3	146.5	154.8	171.6	217.6	284.6	510.6	1920.9	8278.1	9956.3	11002.5
52.5°	138.1	138.1	150.7	167.4	205.1	259.5	426.9	1707.5	8370.1	10224.1	11253.6
55°	129.7	133.9	142.3	159.0	192.5	246.9	364.1	1439.7	8412.0	10358.0	11299.7
57.5°	121.4	125.6	138.1	150.7	184.1	234.4	313.9	1075.6	7813.5	9659.1	10529.6
60°	*108.8*	*117.2*	*133.9*	*146.5*	*171.6*	*213.4*	*276.2*	*728.2*	*6591.5*	*8395.2*	*9123.4*
62.5°	87.9	104.6	121.4	129.7	154.8	180.0	234.4	485.5	5264.8	6947.2	7775.8
65°	67.0	87.9	100.4	113.0	129.7	150.7	196.7	330.6	3511.3	4674.7	5608.0
67.5°	58.6	75.3	83.7	92.1	108.8	129.7	159.0	230.2	2130.2	2808.2	3728.9
70°	46.0	62.8	71.1	67.0	83.7	100.4	113.0	154.8	1088.1	1523.4	2121.8
72.5°	33.5	50.2	54.4	54.4	50.2	71.1	83.7	108.8	472.9	740.8	962.6
75°	25.1	33.5	37.7	33.5	29.3	46.0	58.6	71.1	309.7	443.6	560.8
77.5°	12.6	12.6	20.9	20.9	12.6	25.1	29.3	41.9	175.8	259.5	322.2
80°	4.2	0.0	0.0	4.2	0.0	8.4	12.6	20.9	92.1	138.1	200.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	46.0	41.9	104.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	25.1
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: P1501721
CATALOG NUMBER: GSS-SB4A-740-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2561.3	*2561.3*	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2590.6	*2590.6*	2607.3	2632.4	2645.0	2653.3	2657.5	2665.9	2699.4	2691.0
5°	2699.4	*2707.7*	2720.3	2745.4	2774.7	2766.3	2766.3	2766.3	2787.3	2770.5
7.5°	2841.7	*2866.8*	2871.0	2900.2	2879.3	2837.5	2812.4	2774.7	2770.5	2770.5
10°	3071.8	*3063.5*	3063.5	3025.8	2950.5	2829.1	2720.3	2645.0	2603.1	2607.3
12.5°	3318.8	*3285.3*	3289.5	3151.4	2937.9	2670.1	2448.3	2285.0	2272.5	2259.9
15°	3624.3	*3536.4*	3519.6	3201.6	2749.6	2339.5	2121.8	1992.1	1950.2	1937.7
17.5°	4059.5	*3837.7*	3758.2	3113.7	2502.7	2134.4	1971.2	1912.6	1908.4	1904.2
20°	4519.9	*4080.4*	3929.8	2983.9	2419.0	2138.6	2017.2	2000.5	1992.1	1996.3
22.5°	5055.6	*4235.3*	4042.8	3004.9	2494.3	2276.7	2180.4	2167.9	2159.5	2167.9
25°	5608.0	*4415.2*	4176.7	3172.3	2720.3	2532.0	2419.0	2393.9	2419.0	2456.6
27.5°	6164.6	*4658.0*	4440.4	3502.9	3084.4	2879.3	2770.5	2862.6	2900.2	2904.4
30°	6658.4	*4997.0*	4796.1	3967.4	3498.7	3293.6	3314.6	3431.8	3477.8	3523.8
32.5°	7110.4	*5449.0*	5294.1	4494.8	4034.4	3913.0	3900.5	3988.4	4038.6	4009.3
35°	7566.6	*6039.0*	5888.4	5068.1	4691.5	4591.0	4486.4	4658.0	4641.2	4595.2
37.5°	7997.7	*6633.3*	6495.2	5683.3	5294.1	5118.3	5101.6	5256.4	5394.5	5386.2
40°	8307.4	*7114.6*	6947.2	6294.3	5926.0	5775.4	5863.3	6131.1	6097.6	6051.6
42.5°	8591.9	*7524.7*	7374.1	6830.0	6445.0	6512.0	6591.5	6771.4	6750.5	6704.5
45°	8725.9	*7876.3*	7746.6	7236.0	7047.6	7261.1	7256.9	7323.9	7210.9	7194.1
47.5°	8914.2	*8127.4*	7993.5	7600.1	7767.5	7855.4	7608.4	7537.3	7432.7	7349.0
50°	9261.5	*8516.6*	8382.7	8152.5	8294.8	8022.8	7721.4	7566.6	7353.2	7206.7
52.5°	9667.5	*9106.7*	8989.5	8897.4	8499.9	7939.1	7554.0	7273.6	7014.2	6888.6
55°	10178.1	*9977.2*	9893.5	9387.1	8315.7	7595.9	7143.9	6620.8	6265.0	6147.9
57.5°	10345.5	*11253.6*	11224.3	9466.6	7801.0	6972.3	6156.2	5449.0	5080.7	5005.3
60°	*9851.6*	*12253.9*	*12149.2*	*9332.7*	*6867.7*	*5658.2*	*4704.0*	*3980.0*	*3381.5*	*3293.6*
62.5°	9219.7	*11488.0*	11450.3	8658.9	5231.3	4055.3	3515.5	2837.5	2582.2	2515.2
65°	7897.2	*9399.7*	9416.4	6947.2	3310.4	2912.8	2887.7	2255.7	1941.9	1891.6
67.5°	6080.9	*7210.9*	7093.7	4369.2	1929.3	2331.1	2306.0	1648.9	1192.7	1159.3
70°	3553.1	*5369.4*	5181.1	2272.5	1276.4	1946.1	1774.5	1159.3	811.9	774.2
72.5°	1569.4	*2954.7*	3172.3	1000.2	899.8	1548.5	1280.6	711.5	456.2	447.8
75°	870.5	*1464.8*	1531.7	435.2	631.9	1100.7	774.2	397.6	259.5	255.3
77.5°	523.1	*648.7*	631.9	280.4	472.9	703.1	468.7	226.0	163.2	154.8
80°	293.0	*297.1*	251.1	205.1	280.4	393.4	263.7	142.3	75.3	75.3
82.5°	180.0	*163.2*	129.7	62.8	75.3	238.5	96.3	79.5	25.1	25.1
85°	75.3	*50.2*	33.5	12.6	29.3	62.8	33.5	37.7	12.6	12.6
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

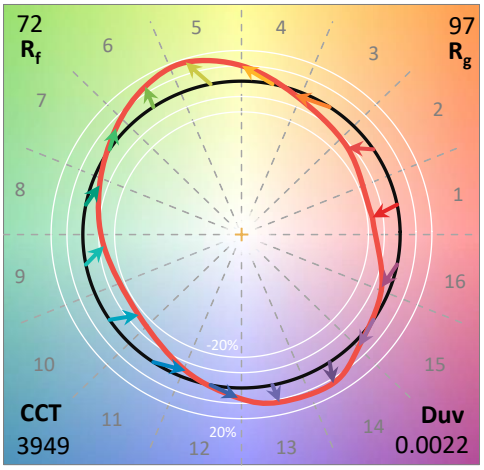
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
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-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



Test Conditions

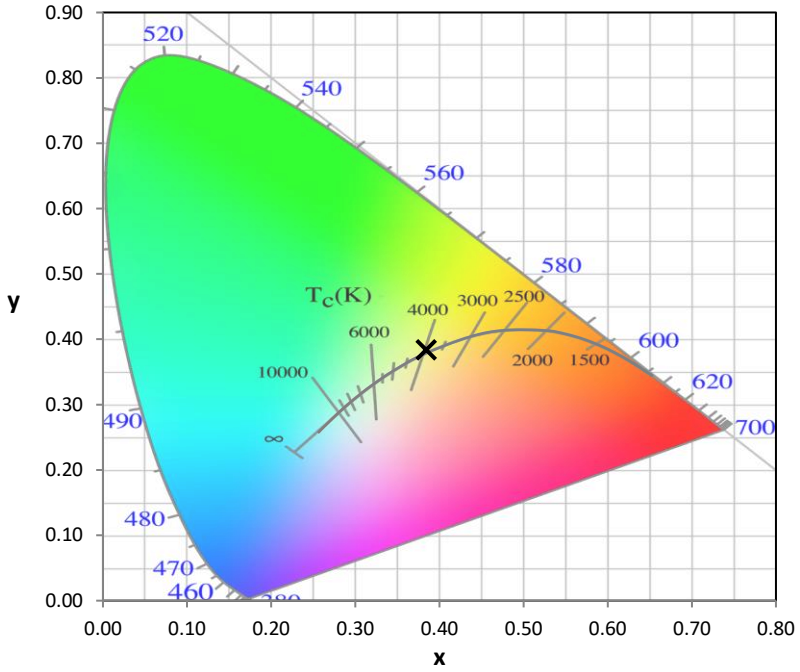
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

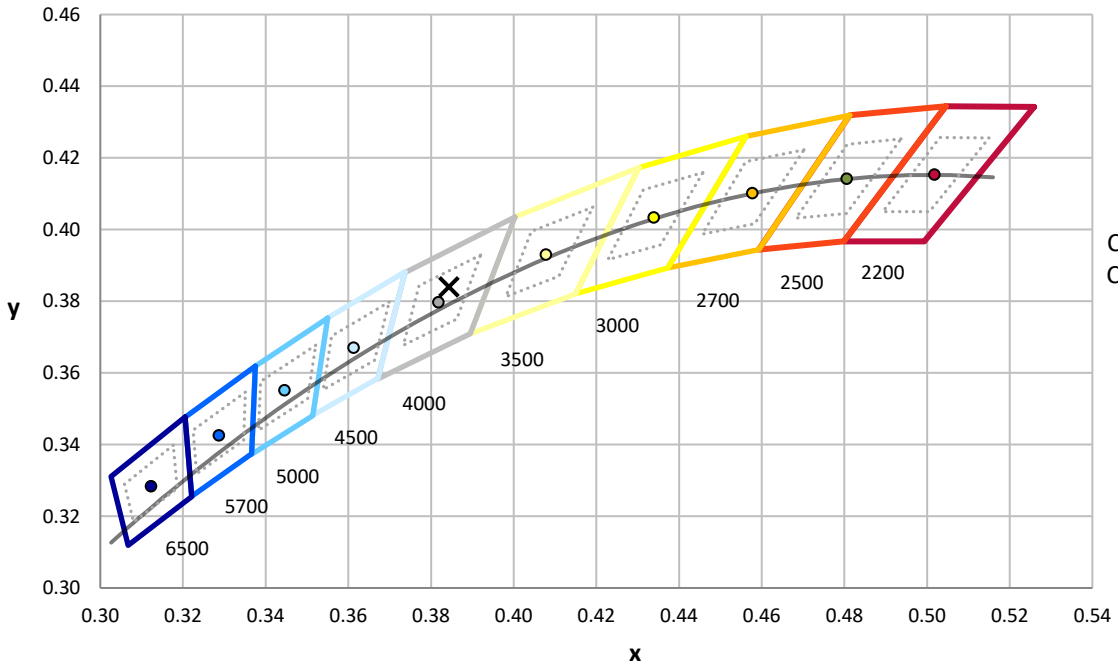
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

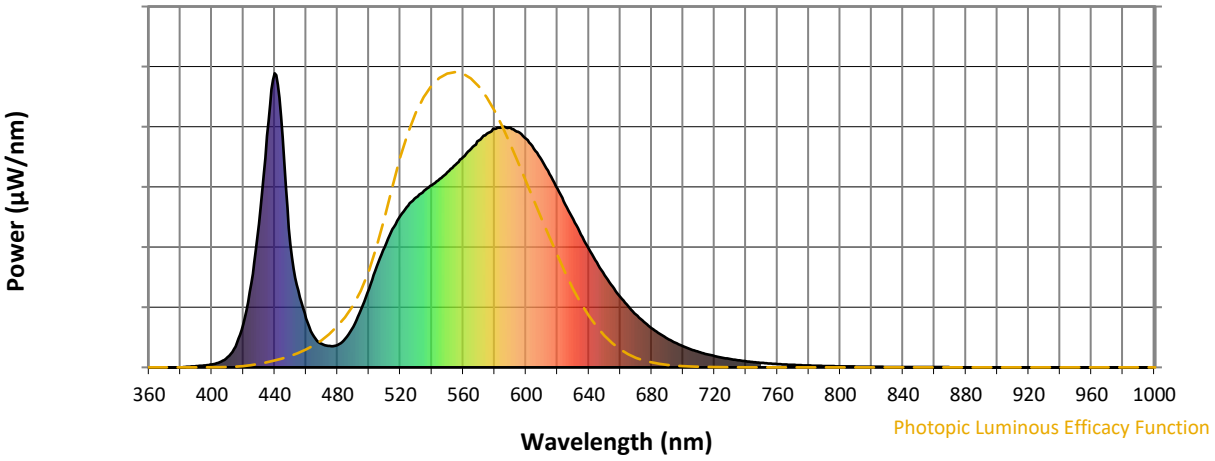


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

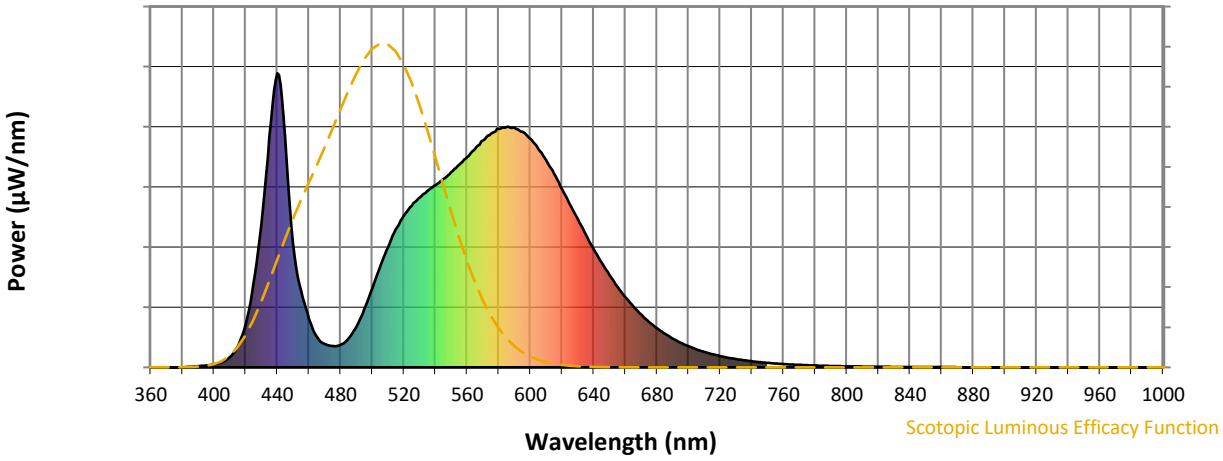


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

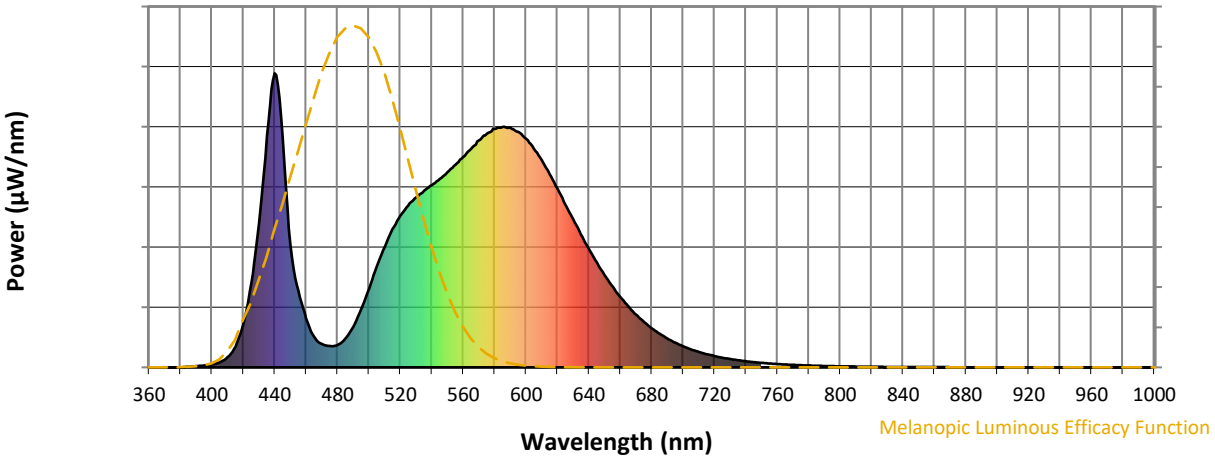


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

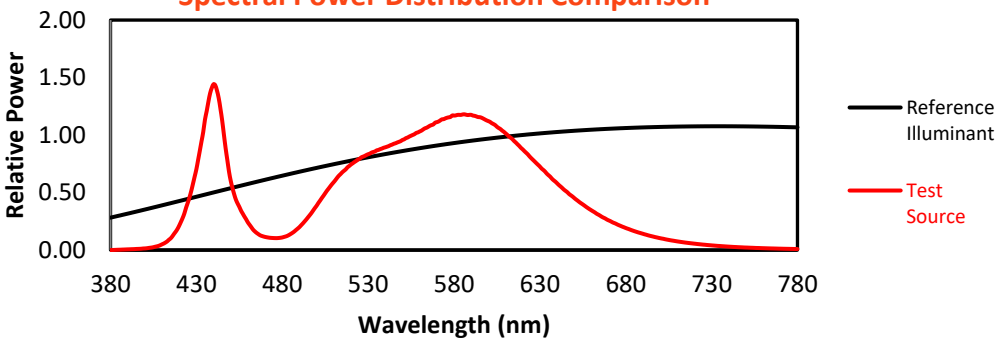
REPORT NUMBER: SP1-2407-184-1

TM-30-18

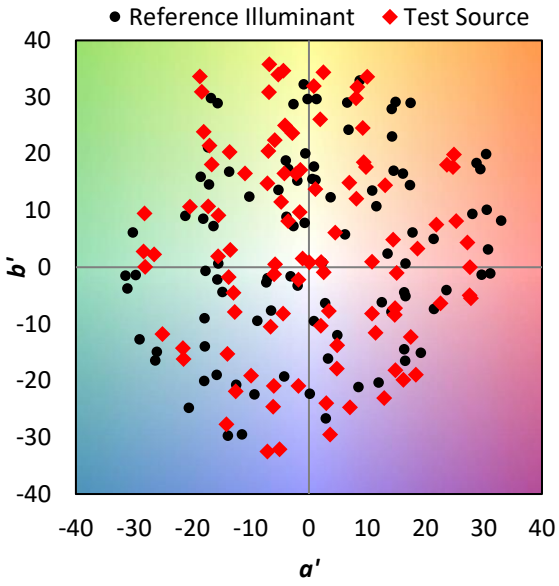
Summary

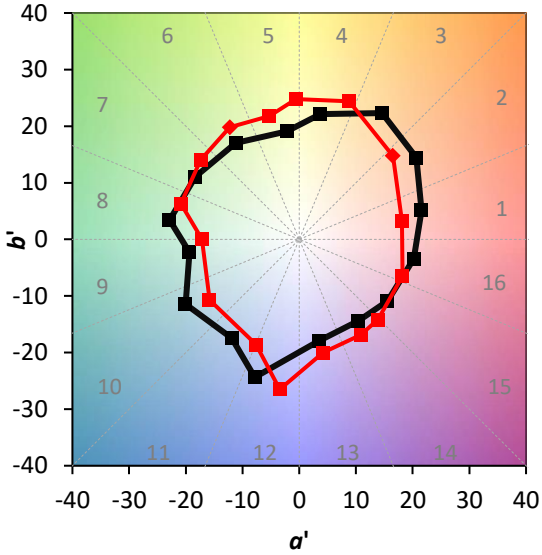
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

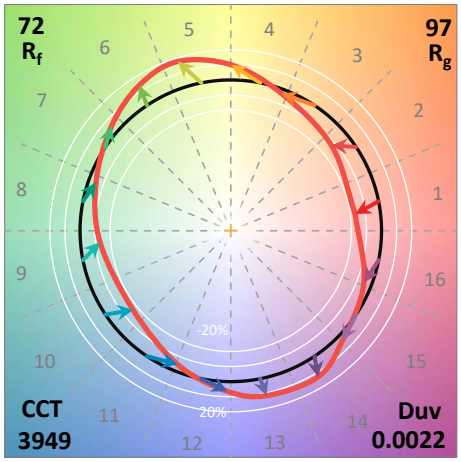
Spectral Power Distribution Comparison

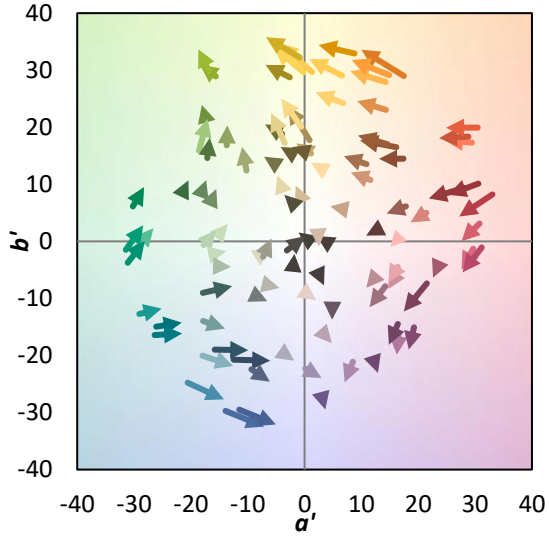


Color Vector Graphics







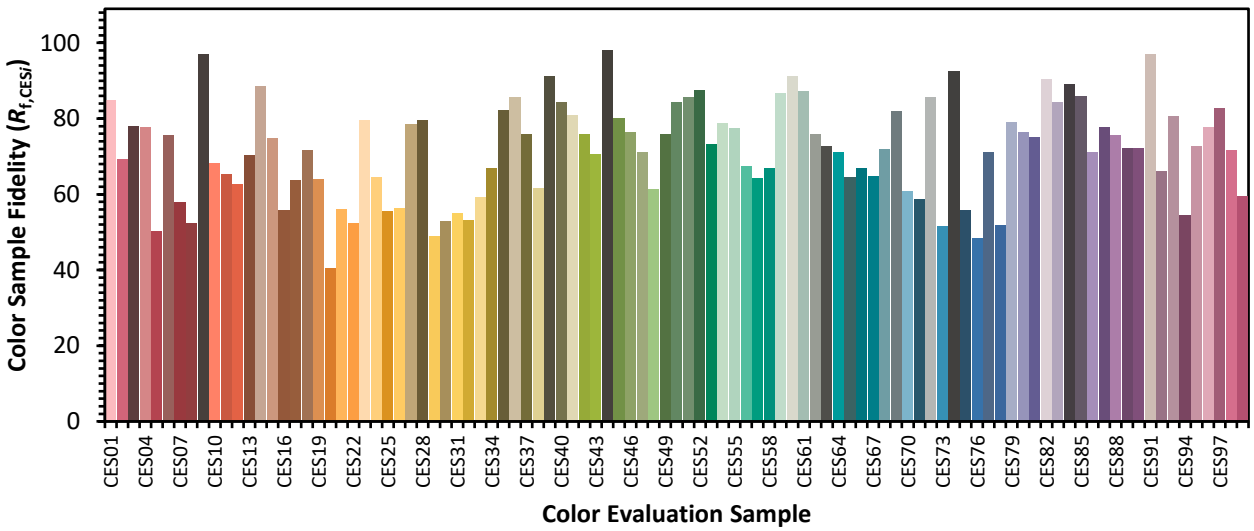


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Individual Sample Fidelity Index ($R_{f,i}$)

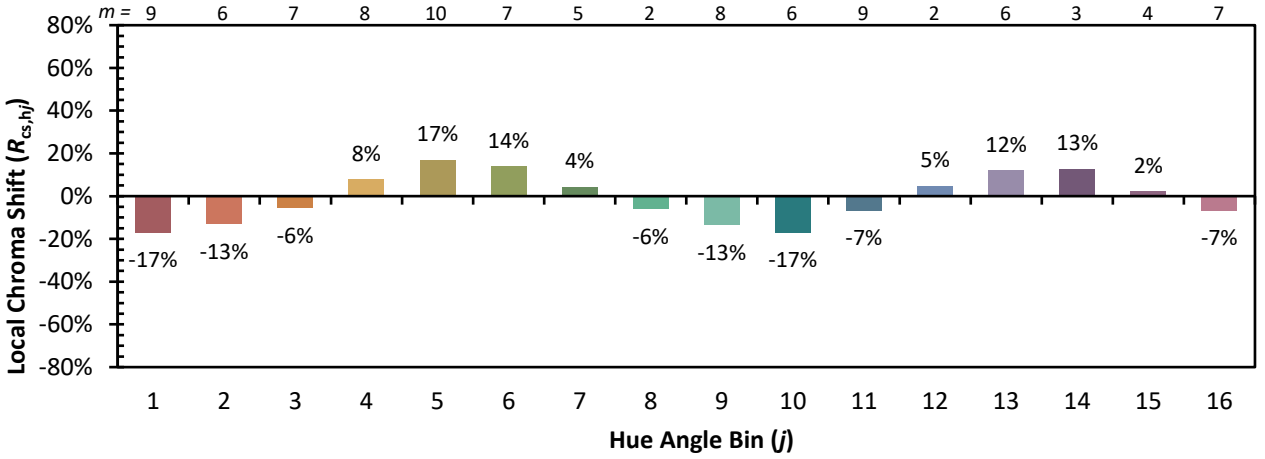
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CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

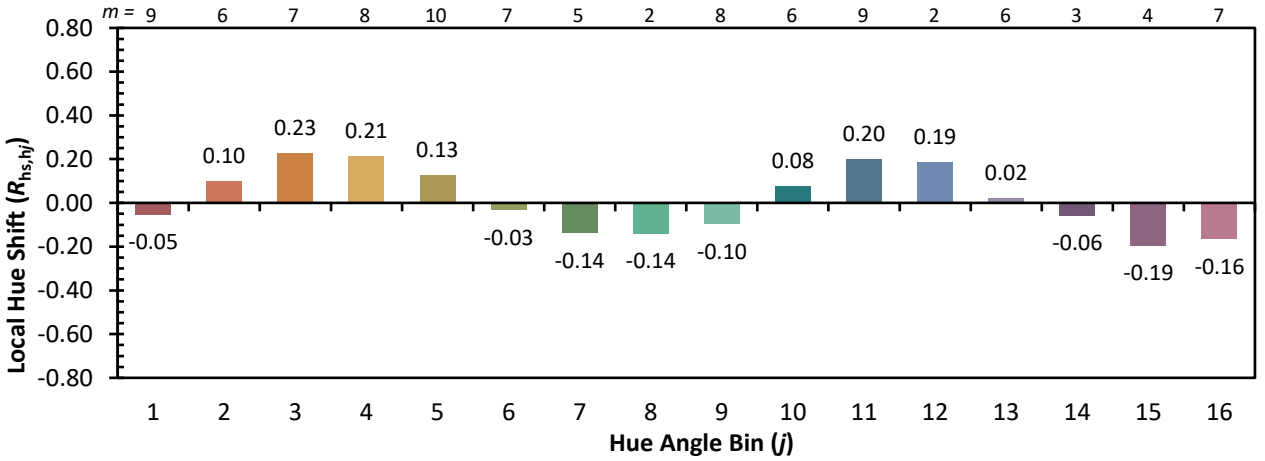


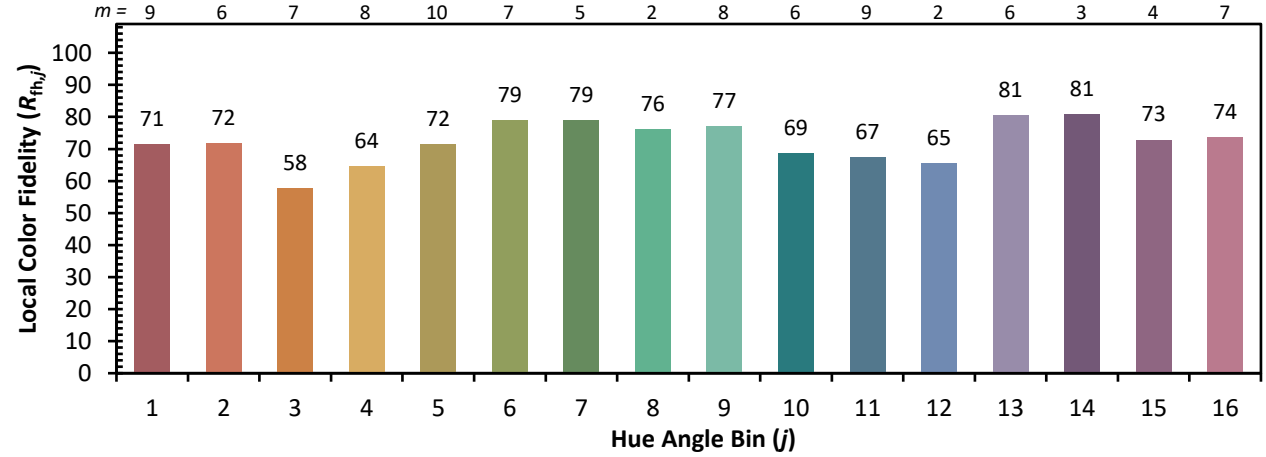
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Color Rendition by Hue-Angle Bin



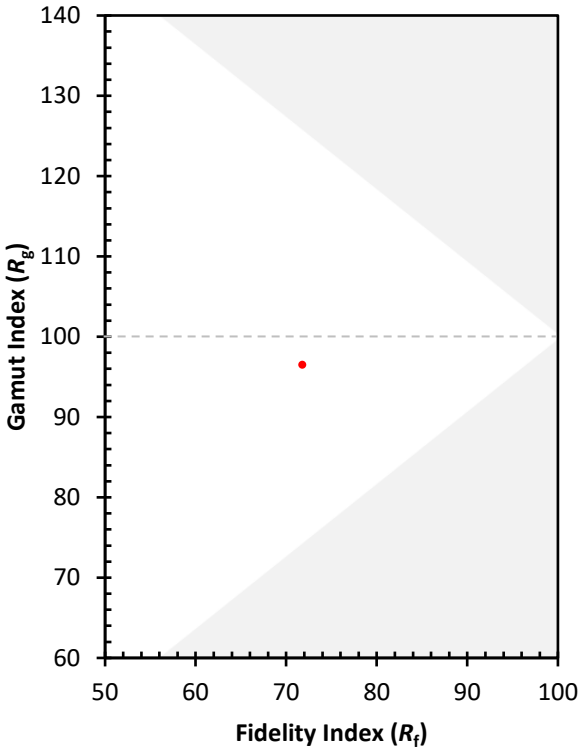


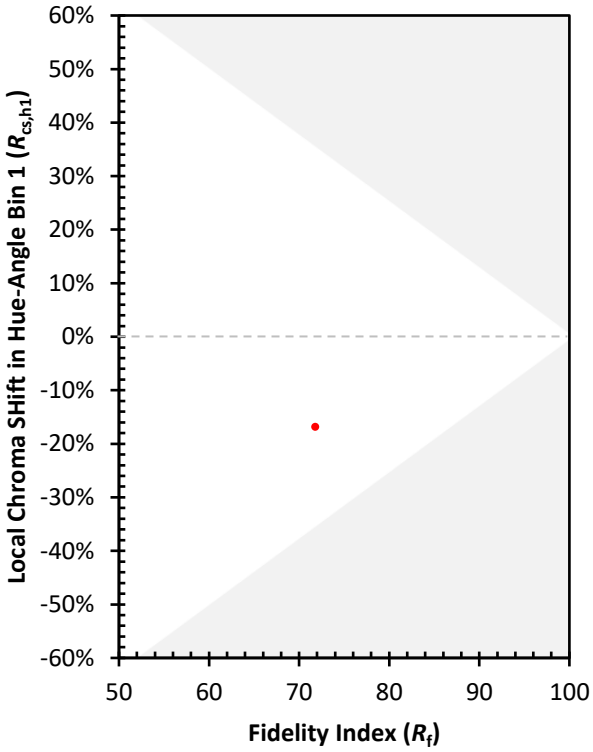


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Measure Comparisons





(END OF REPORT)