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: P1501745

Luminaire Tested: GSS-SB4A-722-U-T2LG-HSS

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501745
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-722-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 2200K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11671.3 lumens
Efficiency:	N/A
Efficacy:	102.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

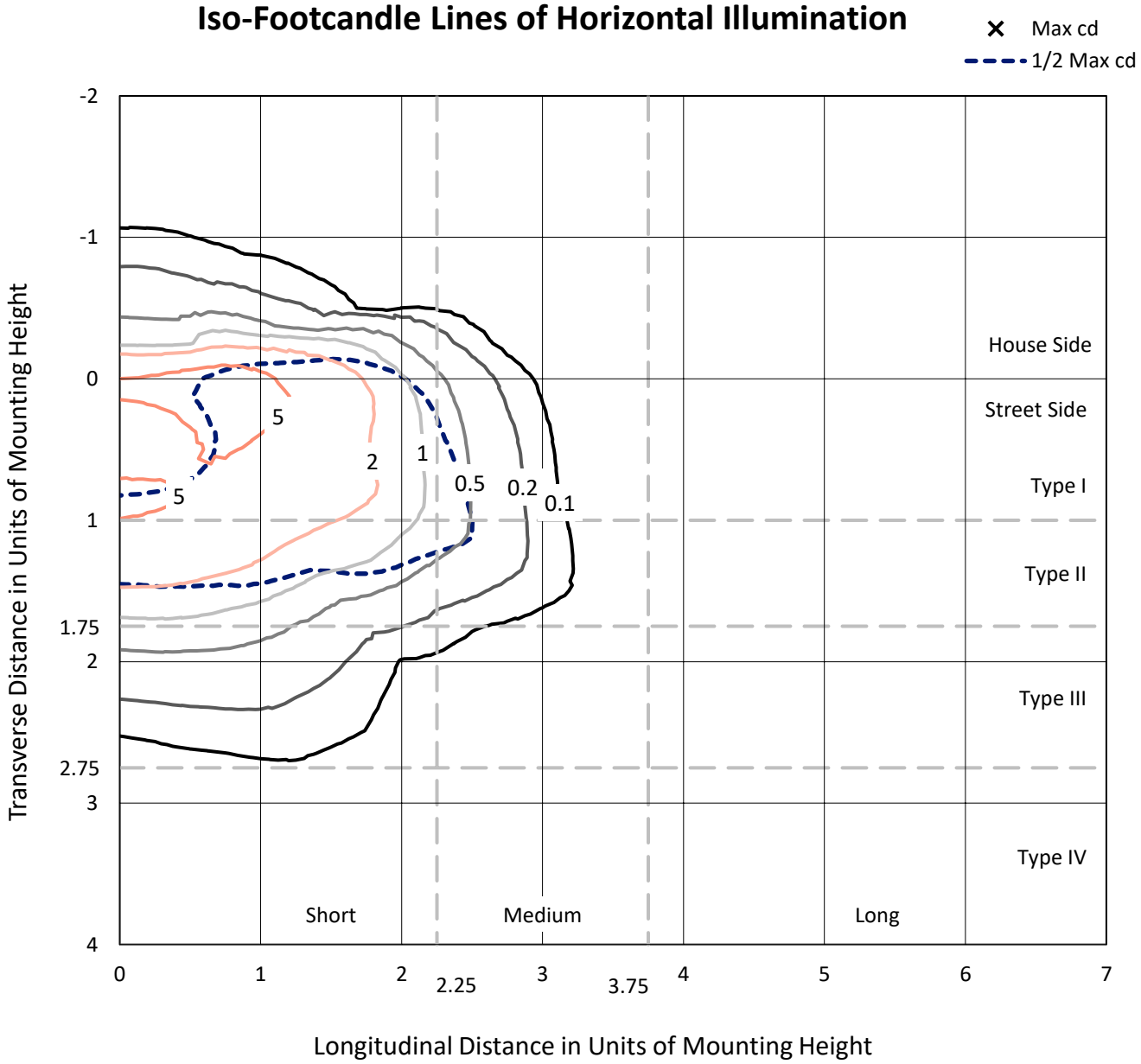
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



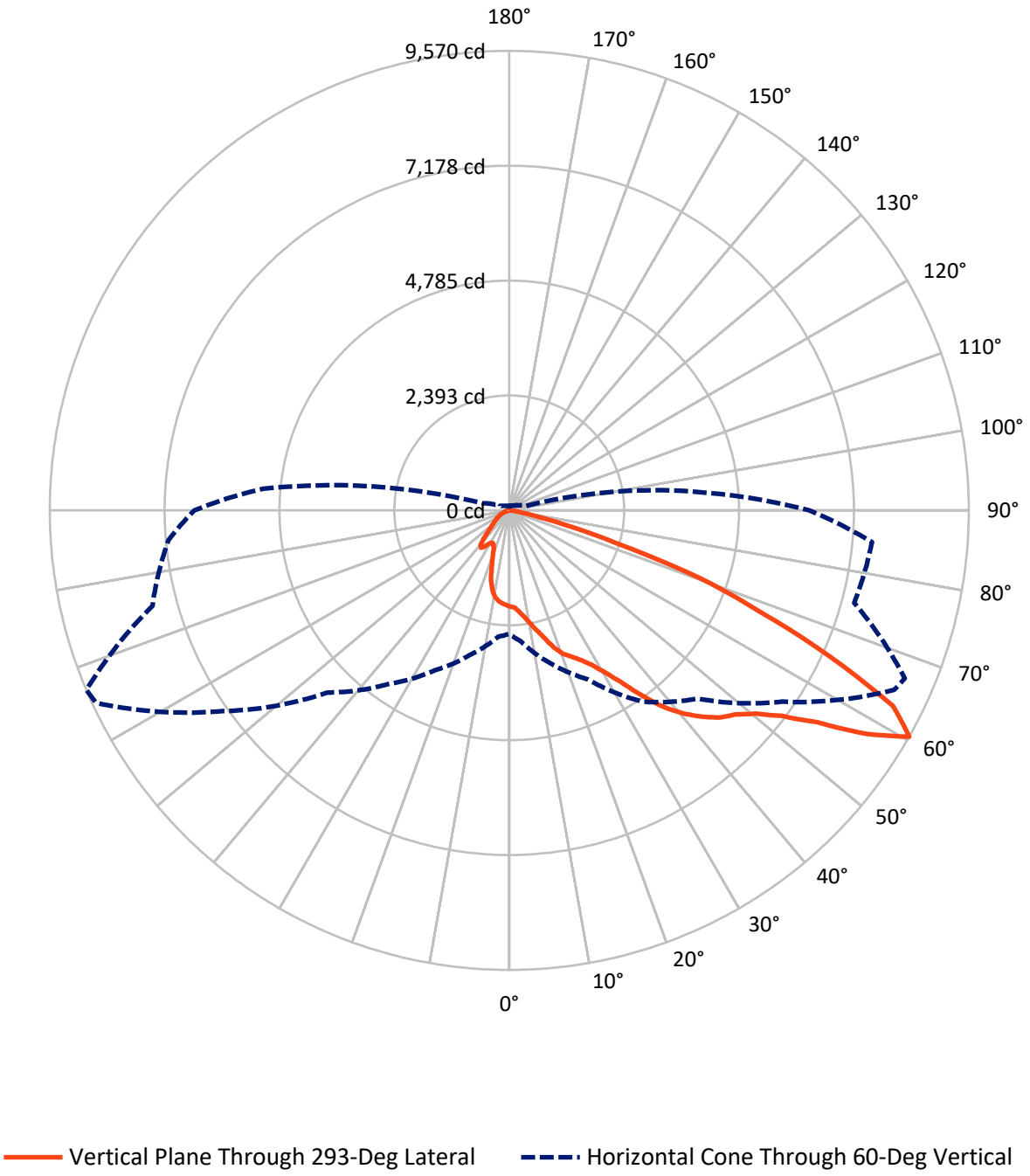
Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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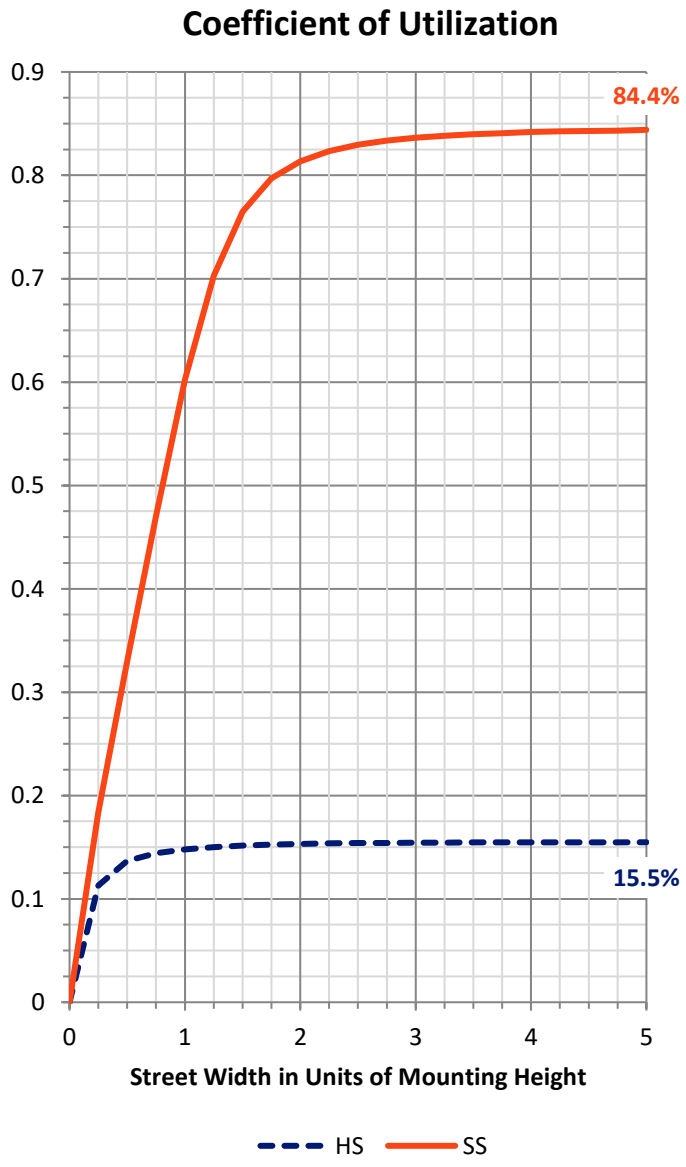
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1821.0	0.0	1821.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	9850.3	0.0	9850.3
	% Fixture	84.4	0.0	84.4
Total	Lumens	11671.3	0.0	11671.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.6
10°-20°	456.2	3.9
20°-30°	851.6	7.3
30°-40°	1688.8	14.5
40°-50°	2692.6	23.1
50°-60°	3216.9	27.6
60°-70°	2108.9	18.1
70°-80°	441.8	3.8
80°-90°	33.4	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°	11671.3	100.0
0°-180°	11671.3	100.0



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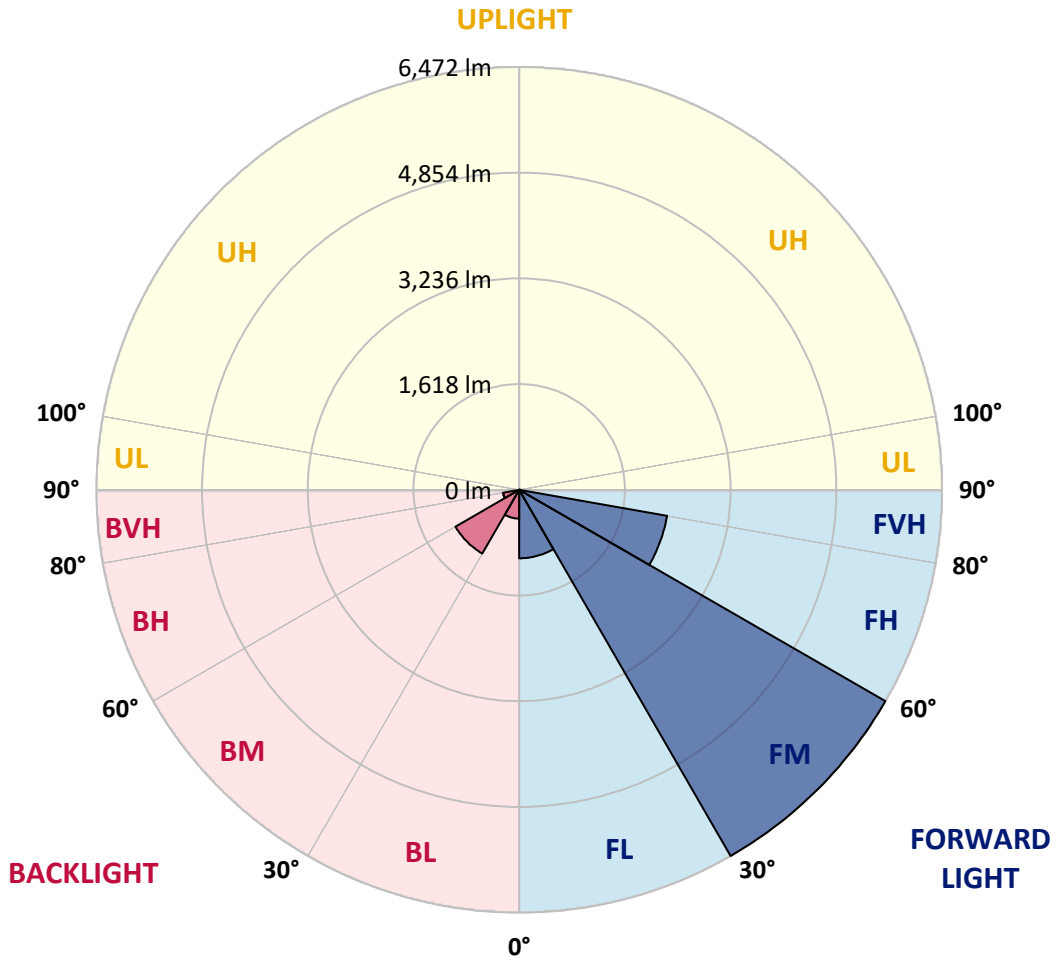
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1048.3	9.0			
FM	(30°-60°)	6472.2	55.5			
FH	(60°-80°)	2299.2	19.7			G2/5000
FVH	(80°-90°)	30.6	0.3			G1/100
BL	(0°-30°)	440.6	3.8	B1/500		
BM	(30°-60°)	1126.1	9.6	B2/2500		
BH	(60°-80°)	251.5	2.2	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2101.7	2095.1	2085.3	2088.6	2085.3	2072.3	2052.6	2036.3	2049.4	2029.8	2016.7
5°	2163.8	2163.8	2157.2	2157.2	2160.5	2154.0	2140.9	2118.0	2121.3	2104.9	2062.4
7.5°	2163.8	2154.0	2170.3	2186.6	2216.1	2232.4	2238.9	2225.9	2232.4	2199.7	2144.2
10°	2036.3	2029.8	2072.3	2134.4	2219.3	2294.5	2343.5	2346.8	2356.6	2323.9	2258.6
12.5°	1765.0	1751.9	1836.9	1954.6	2127.8	2301.0	2438.3	2490.6	2513.5	2500.4	2408.9
15°	1513.3	1529.7	1588.5	1716.0	1948.0	2212.8	2490.6	2663.9	2696.5	2712.9	2605.0
17.5°	1487.2	1490.5	1510.1	1572.2	1748.7	2069.0	2497.2	2843.6	2889.4	2961.3	2814.2
20°	1559.1	1552.6	1572.2	1591.8	1676.8	1941.5	2435.1	3016.9	3105.1	3258.7	3098.6
22.5°	1693.1	1693.1	1702.9	1716.0	1758.5	1931.7	2408.9	3177.0	3327.4	3641.1	3454.8
25°	1918.6	1892.5	1899.0	1882.7	1918.6	2049.4	2467.7	3304.5	3510.4	4066.1	3879.8
27.5°	2268.4	2278.2	2219.3	2131.1	2150.7	2261.8	2611.6	3448.3	3700.0	4507.3	4311.2
30°	2752.1	2735.8	2699.8	2526.6	2448.1	2546.2	2876.3	3683.6	3954.9	5066.2	4886.5
32.5°	3131.3	3177.0	3114.9	2994.0	2873.0	2902.5	3248.9	4062.8	4265.4	5579.4	5481.3
35°	3588.9	3588.9	3601.9	3432.0	3350.2	3343.7	3716.3	4474.6	4677.3	6043.5	6112.2
37.5°	4206.6	4164.1	4092.2	3902.6	3840.5	3922.2	4154.3	4899.5	5118.5	6419.4	6602.4
40°	4726.3	4755.7	4745.9	4471.4	4350.4	4438.7	4644.6	5262.3	5432.3	6661.3	6997.9
42.5°	5236.2	5252.5	5210.0	5079.3	4902.8	4909.3	5079.3	5536.9	5710.1	6893.3	7370.5
45°	5618.6	5615.3	5585.9	5553.2	5448.6	5340.8	5370.2	5840.9	5991.2	6968.5	7573.2
47.5°	5739.5	5765.7	5791.8	5883.4	5955.3	5785.3	5635.0	6004.3	6141.6	6955.4	7648.4
50°	5628.4	5684.0	5811.5	5948.7	6193.9	6180.8	5857.2	6180.8	6314.8	7027.3	7736.6
52.5°	5380.0	5435.6	5605.5	5853.9	6223.3	6406.3	6269.0	6478.2	6635.1	7210.4	7919.7
55°	4801.5	4824.4	5174.1	5500.9	6076.2	6308.3	6710.3	6981.6	7112.3	7432.6	8161.5
57.5°	3909.2	3964.7	4307.9	4840.7	5664.4	6050.1	6962.0	7841.2	7837.9	7645.1	8213.8
60°	*2572.3*	*2735.8*	*3294.7*	*3883.0*	*4866.8*	*5543.4*	*6945.6*	*8847.9*	*8949.2*	*7435.9*	*7583.0*
62.5°	1964.4	2033.0	2350.1	2840.4	3601.9	4595.6	6837.8	9148.6	9227.1	6873.7	6638.4
65°	1477.4	1562.4	1866.3	2304.3	2542.9	3114.9	6131.8	7952.3	8060.2	6135.0	5161.0
67.5°	905.4	974.0	1379.3	1892.5	1925.2	1935.0	4138.0	6023.9	6063.1	4948.6	3474.5
70°	604.7	673.3	954.4	1454.5	1532.9	1114.6	2271.6	4559.6	4556.3	3386.2	2111.5
72.5°	349.7	382.4	604.7	1072.1	1206.1	709.3	1134.2	2899.2	2771.7	1591.8	987.1
75°	199.4	222.3	333.4	689.7	846.6	451.1	447.8	1552.6	1372.8	820.4	539.3
77.5°	120.9	130.7	183.0	451.1	509.9	304.0	248.4	722.3	696.2	480.5	284.4
80°	58.8	68.6	111.1	264.8	326.9	163.4	150.4	284.4	304.0	264.8	150.4
82.5°	19.6	26.1	62.1	101.3	212.5	65.4	62.1	156.9	166.7	156.9	71.9
85°	9.8	13.1	29.4	32.7	81.7	32.7	22.9	68.6	85.0	52.3	29.4
87.5°	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.5	6.5	6.5	6.5
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°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2006.9	2000.3	1987.3	1964.4	1961.1	1944.8	1918.6	1902.3	1889.2	1899.0	1902.3
5°	2042.8	2026.5	1987.3	1925.2	1859.8	1794.4	1732.3	1660.4	1611.4	1604.9	1591.8
7.5°	2108.2	2075.5	1990.5	1869.6	1702.9	1546.0	1363.0	1186.5	1098.2	1085.2	1055.7
10°	2212.8	2157.2	2016.7	1771.5	1451.2	1124.4	846.6	657.0	549.1	529.5	536.0
12.5°	2337.0	2258.6	2020.0	1604.9	1104.8	696.2	480.5	408.6	385.7	375.9	375.9
15°	2497.2	2382.8	2016.7	1389.1	745.2	447.8	385.7	356.3	346.5	339.9	339.9
17.5°	2699.8	2549.5	1993.8	1065.5	503.4	389.0	353.0	330.1	317.0	313.8	313.8
20°	2938.4	2735.8	1941.5	794.3	421.6	362.8	333.4	304.0	294.2	287.6	287.6
22.5°	3242.4	2961.3	1840.2	617.8	398.8	346.5	313.8	281.1	271.3	264.8	264.8
25°	3595.4	3248.9	1706.2	555.7	395.5	333.4	294.2	261.5	251.7	248.4	245.1
27.5°	4013.8	3556.2	1582.0	558.9	402.0	323.6	274.6	245.1	235.3	225.5	228.8
30°	4507.3	3873.2	1480.6	598.1	408.6	313.8	261.5	235.3	225.5	212.5	212.5
32.5°	4994.3	4245.8	1470.8	670.0	431.4	307.2	248.4	222.3	212.5	202.6	202.6
35°	5494.4	4585.8	1526.4	764.8	477.2	297.4	232.1	209.2	199.4	192.8	189.6
37.5°	5971.6	4857.0	1578.7	823.7	451.1	254.9	212.5	192.8	183.0	170.0	170.0
40°	6288.7	5004.1	1588.5	777.9	372.6	228.8	192.8	173.2	160.2	153.6	150.4
42.5°	6520.7	5098.9	1477.4	630.8	323.6	209.2	176.5	156.9	147.1	140.5	140.5
45°	6615.5	5066.2	1287.8	480.5	297.4	192.8	160.2	143.8	137.3	130.7	130.7
47.5°	6602.4	4915.9	1095.0	385.7	271.3	176.5	150.4	137.3	130.7	124.2	120.9
50°	6579.6	4775.3	898.8	343.2	241.9	166.7	140.5	130.7	120.9	114.4	111.1
52.5°	6729.9	4729.6	745.2	313.8	225.5	160.2	137.3	124.2	114.4	107.9	107.9
55°	6880.3	4749.2	585.1	294.2	209.2	156.9	134.0	120.9	111.1	101.3	101.3
57.5°	6870.5	4664.2	444.5	274.6	196.1	153.6	130.7	117.7	101.3	94.8	94.8
60°	*6246.2*	*4160.8*	*346.5*	*251.7*	*179.8*	*143.8*	*120.9*	*111.1*	*94.8*	*85.0*	*85.0*
62.5°	5282.0	3271.8	284.4	222.3	160.2	130.7	111.1	101.3	85.0	68.6	68.6
65°	3902.6	2359.9	228.8	192.8	147.1	114.4	101.3	88.3	68.6	55.6	52.3
67.5°	2641.0	1451.2	183.0	160.2	130.7	98.1	85.0	75.2	62.1	45.8	42.5
70°	1565.6	771.4	134.0	111.1	98.1	71.9	71.9	65.4	52.3	39.2	36.0
72.5°	745.2	268.0	98.1	81.7	75.2	52.3	55.6	55.6	42.5	29.4	26.1
75°	379.1	130.7	65.4	58.8	49.0	39.2	45.8	42.5	29.4	19.6	19.6
77.5°	215.7	91.5	45.8	39.2	32.7	26.1	29.4	26.1	16.3	9.8	9.8
80°	120.9	65.4	29.4	26.1	19.6	16.3	16.3	13.1	9.8	3.3	3.3
82.5°	45.8	39.2	19.6	13.1	9.8	9.8	6.5	6.5	3.3	0.0	0.0
85°	19.6	9.8	9.8	6.5	6.5	3.3	3.3	3.3	0.0	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	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°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	1876.1	1882.7	1889.2	1915.4	1921.9	1941.5	1957.9	1977.5	1980.7	2006.9	2006.9
5°	1617.9	1614.7	1670.2	1751.9	1804.2	1876.1	1931.7	1990.5	2023.2	2065.7	2085.3
7.5°	1072.1	1153.8	1278.0	1421.8	1608.1	1781.4	1912.1	2026.5	2104.9	2154.0	2173.6
10°	532.8	578.5	709.3	944.6	1261.7	1614.7	1892.5	2104.9	2232.4	2288.0	2323.9
12.5°	375.9	385.7	408.6	536.0	840.0	1340.1	1830.4	2189.9	2366.4	2471.0	2516.8
15°	336.7	343.2	353.0	389.0	519.7	1000.2	1719.2	2284.7	2575.6	2696.5	2755.4
17.5°	310.5	313.8	323.6	353.0	408.6	679.9	1539.5	2386.0	2827.3	2974.4	3085.5
20°	287.6	287.6	297.4	333.4	379.1	523.0	1281.3	2500.4	3147.6	3360.1	3471.2
22.5°	261.5	268.0	274.6	313.8	369.3	477.2	1039.4	2588.7	3503.9	3762.1	3892.8
25°	241.9	248.4	254.9	294.2	359.5	477.2	898.8	2644.2	3902.6	4209.9	4389.6
27.5°	225.5	232.1	241.9	281.1	349.7	496.8	843.3	2660.6	4337.3	4736.1	4978.0
30°	212.5	219.0	228.8	271.3	356.3	519.7	862.9	2637.7	4778.6	5278.7	5566.3
32.5°	199.4	205.9	215.7	261.5	356.3	549.1	928.3	2591.9	5206.8	5821.3	6174.3
35°	189.6	192.8	196.1	235.3	323.6	545.8	1010.0	2546.2	5638.2	6357.3	6769.1
37.5°	170.0	173.2	179.8	202.6	258.2	496.8	1026.3	2490.6	5978.1	6808.4	7262.7
40°	150.4	156.9	163.4	186.3	215.7	402.0	954.4	2373.0	6157.9	7154.8	7707.2
42.5°	137.3	140.5	147.1	170.0	199.4	320.3	800.8	2167.0	6318.1	7390.2	8030.8
45°	127.5	130.7	137.3	153.6	186.3	277.8	630.8	1915.4	6331.2	7465.3	8187.7
47.5°	117.7	120.9	124.2	140.5	179.8	248.4	483.7	1686.6	6327.9	7563.4	8321.7
50°	111.1	114.4	120.9	134.0	170.0	222.3	398.8	1500.3	6465.2	7775.8	8593.0
52.5°	107.9	107.9	117.7	130.7	160.2	202.6	333.4	1333.6	6537.1	7985.0	8789.1
55°	101.3	104.6	111.1	124.2	150.4	192.8	284.4	1124.4	6569.8	8089.6	8825.0
57.5°	94.8	98.1	107.9	117.7	143.8	183.0	245.1	840.0	6102.4	7543.8	8223.6
60°	*85.0*	*91.5*	*104.6*	*114.4*	*134.0*	*166.7*	*215.7*	*568.7*	*5147.9*	*6556.7*	*7125.4*
62.5°	68.6	81.7	94.8	101.3	120.9	140.5	183.0	379.1	4111.8	5425.8	6072.9
65°	52.3	68.6	78.4	88.3	101.3	117.7	153.6	258.2	2742.3	3651.0	4379.8
67.5°	45.8	58.8	65.4	71.9	85.0	101.3	124.2	179.8	1663.7	2193.2	2912.3
70°	36.0	49.0	55.6	52.3	65.4	78.4	88.3	120.9	849.8	1189.7	1657.1
72.5°	26.1	39.2	42.5	42.5	39.2	55.6	65.4	85.0	369.3	578.5	751.8
75°	19.6	26.1	29.4	26.1	22.9	36.0	45.8	55.6	241.9	346.5	438.0
77.5°	9.8	9.8	16.3	16.3	9.8	19.6	22.9	32.7	137.3	202.6	251.7
80°	3.3	0.0	0.0	3.3	0.0	6.5	9.8	16.3	71.9	107.9	156.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	36.0	32.7	81.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	19.6
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: P1501745
CATALOG NUMBER: GSS-SB4A-722-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2000.3	*2000.3*	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2023.2	*2023.2*	2036.3	2055.9	2065.7	2072.3	2075.5	2082.1	2108.2	2101.7
5°	2108.2	*2114.7*	2124.5	2144.2	2167.0	2160.5	2160.5	2160.5	2176.8	2163.8
7.5°	2219.3	*2238.9*	2242.2	2265.1	2248.8	2216.1	2196.5	2167.0	2163.8	2163.8
10°	2399.1	*2392.6*	2392.6	2363.2	2304.3	2209.5	2124.5	2065.7	2033.0	2036.3
12.5°	2591.9	*2565.8*	2569.1	2461.2	2294.5	2085.3	1912.1	1784.6	1774.8	1765.0
15°	2830.6	*2761.9*	2748.8	2500.4	2147.4	1827.1	1657.1	1555.8	1523.1	1513.3
17.5°	3170.5	*2997.2*	2935.1	2431.8	1954.6	1667.0	1539.5	1493.7	1490.5	1487.2
20°	3530.0	*3186.8*	3069.2	2330.5	1889.2	1670.2	1575.4	1562.4	1555.8	1559.1
22.5°	3948.4	*3307.8*	3157.4	2346.8	1948.0	1778.1	1702.9	1693.1	1686.6	1693.1
25°	4379.8	*3448.3*	3262.0	2477.5	2124.5	1977.5	1889.2	1869.6	1889.2	1918.6
27.5°	4814.6	*3637.9*	3467.9	2735.8	2408.9	2248.8	2163.8	2235.7	2265.1	2268.4
30°	5200.2	*3902.6*	3745.7	3098.6	2732.5	2572.3	2588.7	2680.2	2716.2	2752.1
32.5°	5553.2	*4255.6*	4134.7	3510.4	3150.9	3056.1	3046.3	3114.9	3154.1	3131.3
35°	5909.5	*4716.5*	4598.8	3958.2	3664.0	3585.6	3503.9	3637.9	3624.8	3588.9
37.5°	6246.2	*5180.6*	5072.8	4438.7	4134.7	3997.4	3984.3	4105.3	4213.1	4206.6
40°	6488.0	*5556.5*	5425.8	4915.9	4628.2	4510.6	4579.2	4788.4	4762.3	4726.3
42.5°	6710.3	*5876.8*	5759.2	5334.2	5033.5	5085.8	5147.9	5288.5	5272.1	5236.2
45°	6814.9	*6151.4*	6050.1	5651.3	5504.2	5670.9	5667.6	5719.9	5631.7	5618.6
47.5°	6962.0	*6347.5*	6242.9	5935.7	6066.4	6135.0	5942.2	5886.6	5804.9	5739.5
50°	7233.3	*6651.5*	6546.9	6367.1	6478.2	6265.8	6030.4	5909.5	5742.8	5628.4
52.5°	7550.3	*7112.3*	7020.8	6948.9	6638.4	6200.4	5899.7	5680.7	5478.1	5380.0
55°	7949.1	*7792.2*	7726.8	7331.3	6494.6	5932.4	5579.4	5170.8	4893.0	4801.5
57.5°	8079.8	*8789.1*	8766.2	7393.4	6092.5	5445.4	4808.0	4255.6	3968.0	3909.2
60°	*7694.1*	*9570.3*	*9488.6*	*7288.8*	*5363.7*	*4419.1*	*3673.8*	*3108.4*	*2641.0*	*2572.3*
62.5°	7200.6	*8972.1*	8942.7	6762.6	4085.7	3167.2	2745.6	2216.1	2016.7	1964.4
65°	6167.7	*7341.1*	7354.2	5425.8	2585.4	2274.9	2255.3	1761.7	1516.6	1477.4
67.5°	4749.2	*5631.7*	5540.2	3412.3	1506.8	1820.6	1801.0	1287.8	931.5	905.4
70°	2775.0	*4193.5*	4046.4	1774.8	996.9	1519.9	1385.9	905.4	634.1	604.7
72.5°	1225.7	*2307.6*	2477.5	781.2	702.7	1209.4	1000.2	555.7	356.3	349.7
75°	679.9	*1144.0*	1196.3	339.9	493.5	859.6	604.7	310.5	202.6	199.4
77.5°	408.6	*506.6*	493.5	219.0	369.3	549.1	366.1	176.5	127.5	120.9
80°	228.8	*232.1*	196.1	160.2	219.0	307.2	205.9	111.1	58.8	58.8
82.5°	140.5	*127.5*	101.3	49.0	58.8	186.3	75.2	62.1	19.6	19.6
85°	58.8	*39.2*	26.1	9.8	22.9	49.0	26.1	29.4	9.8	9.8
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

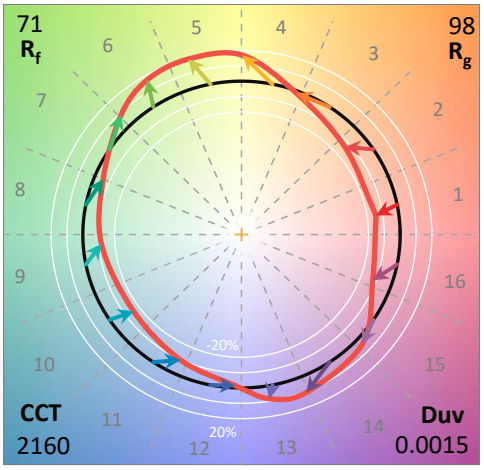
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-2
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-722-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160
CIE u':	0.2927
CIE v':	0.5388
Duv:	0.0015
CIE x:	0.5130
CIE y:	0.4197
CIE z:	0.0674
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	587
Purity:	79.96089
Rf:	70.6
Rg:	97.6

CRI (Ra):	71.9
R1:	68.7
R2:	82.6
R3:	95.5
R4:	66.4
R5:	65.4
R6:	75.9
R7:	77.2
R8:	43.5
R9:	-17.8
R10:	60.5
R11:	60.2
R12:	48.2
R13:	70.7
R14:	96.8
R15:	61.8



Test Conditions

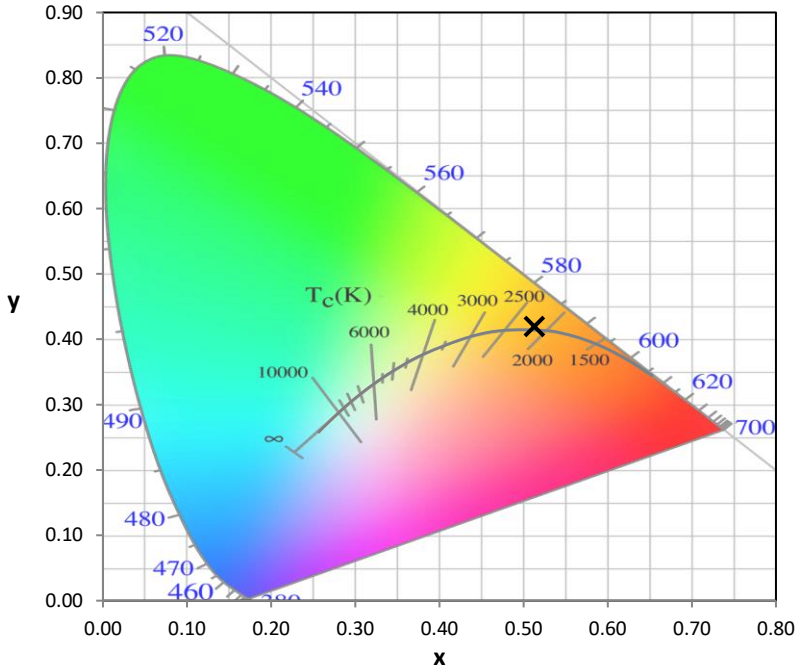
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-2

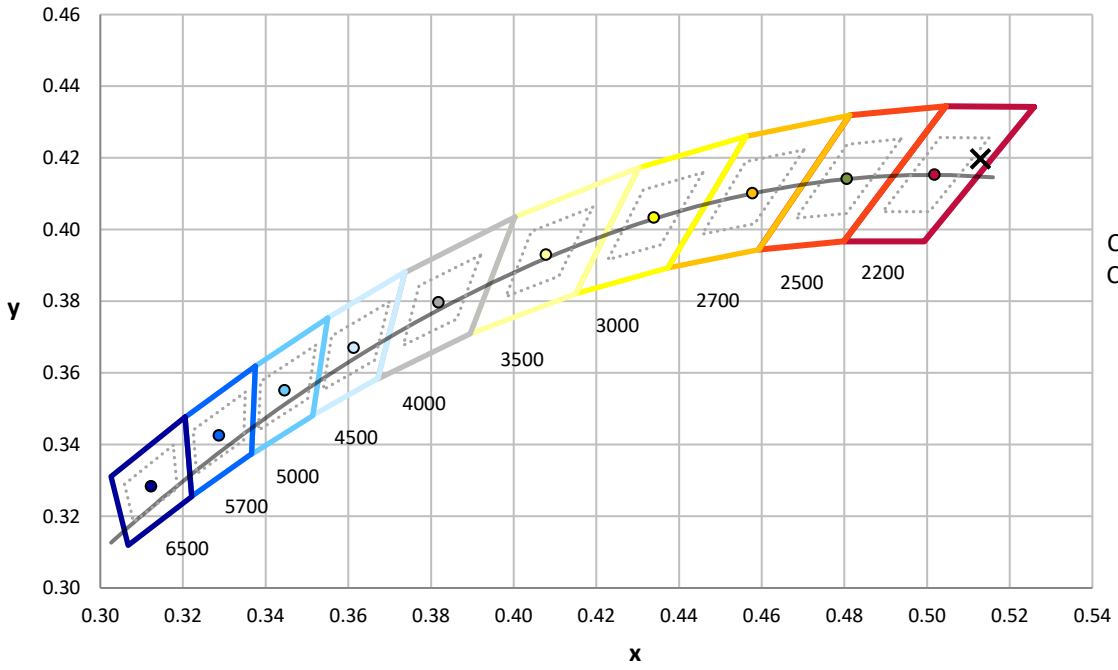
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



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

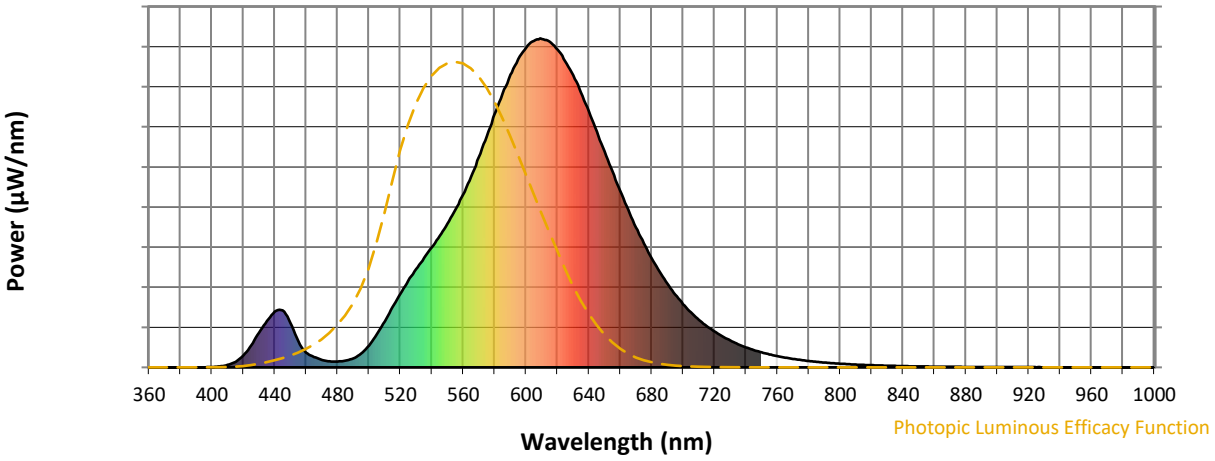


CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

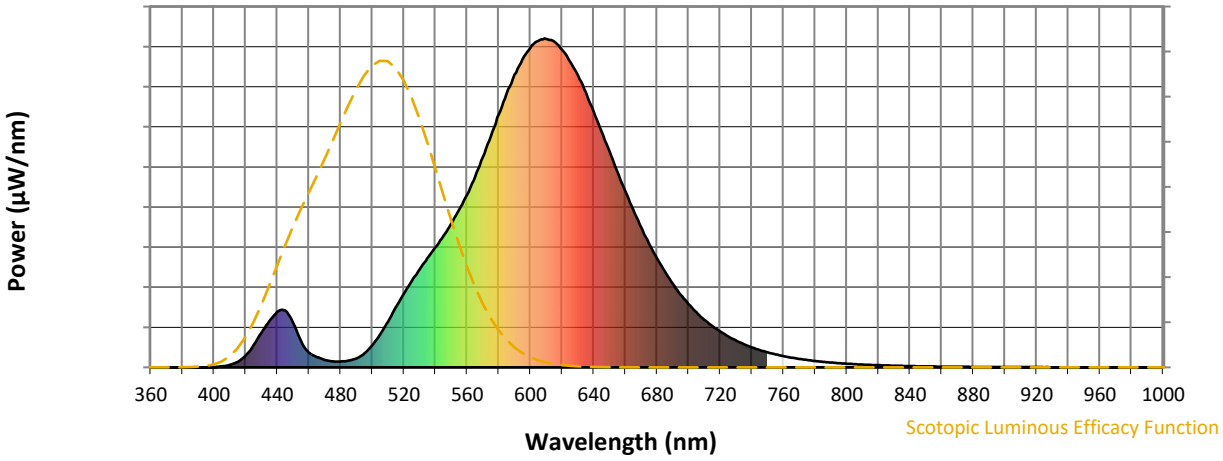


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength

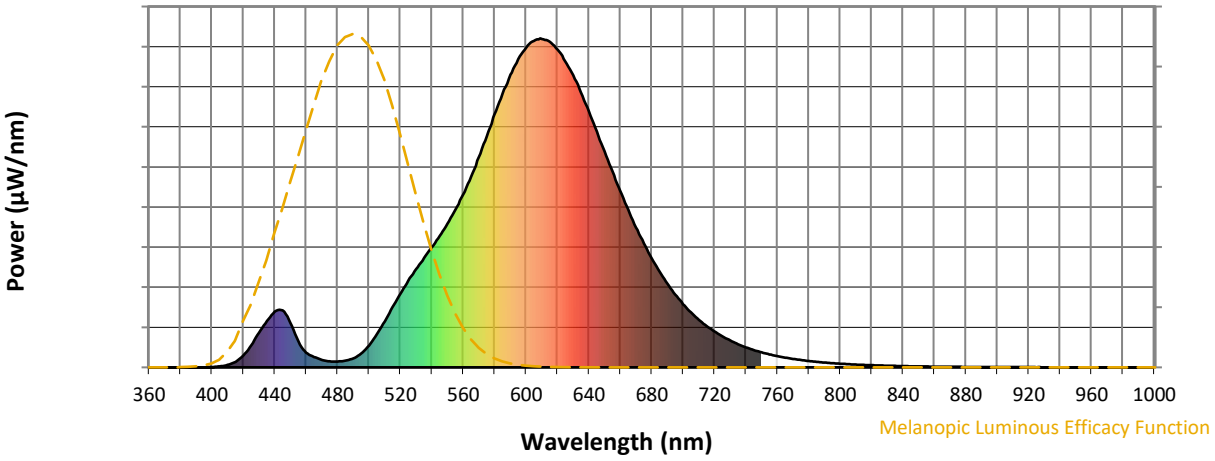


Scotopic Lumens: NR **S/P: 0.8**

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.21**

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

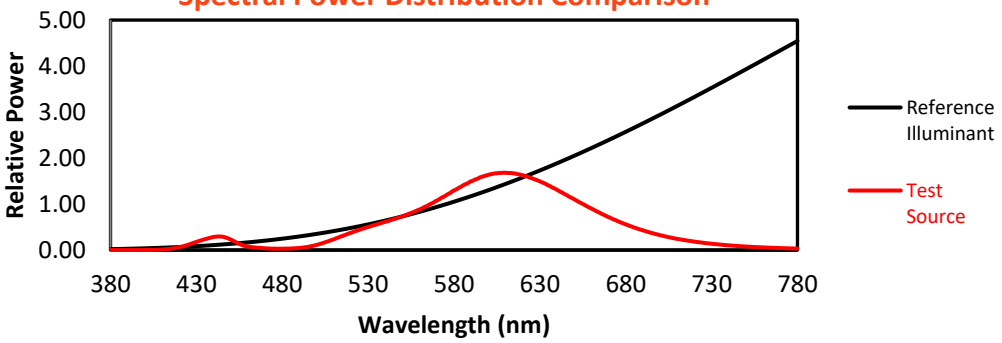
REPORT NUMBER: SP1-2407-184-2

TM-30-18

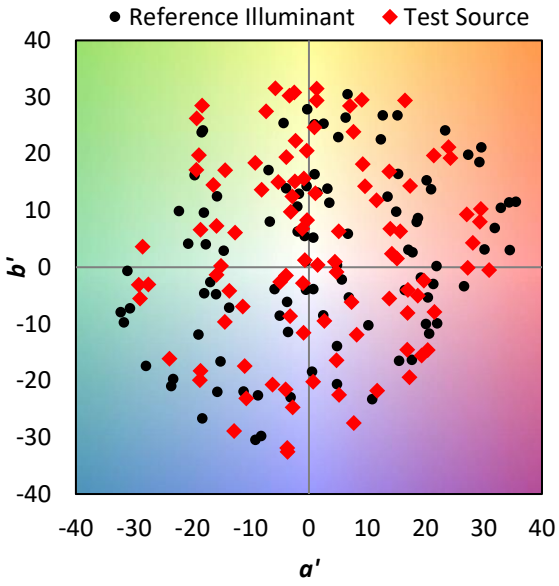
Summary

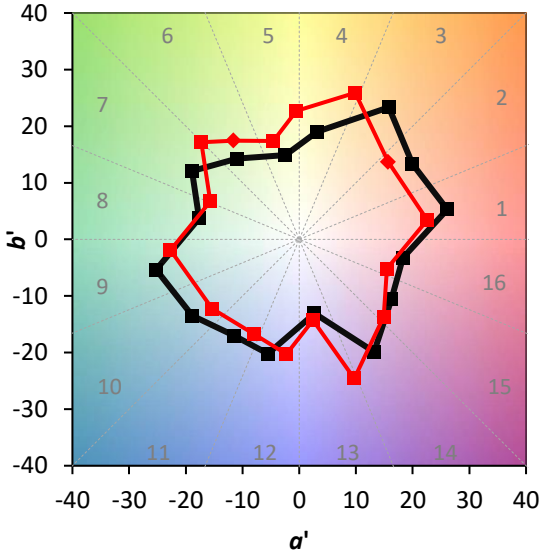
R_f = 70.6
R_g = 97.6
CIE R_a = 71.9
R_9 = -17.8

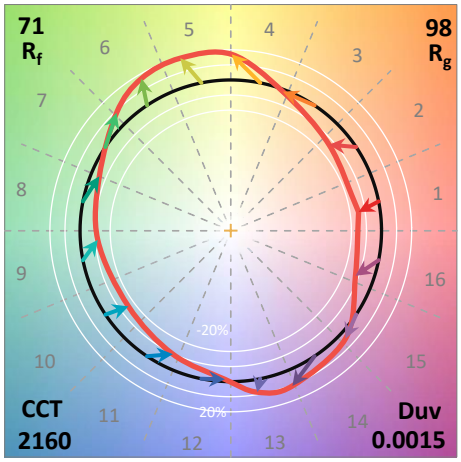
Spectral Power Distribution Comparison

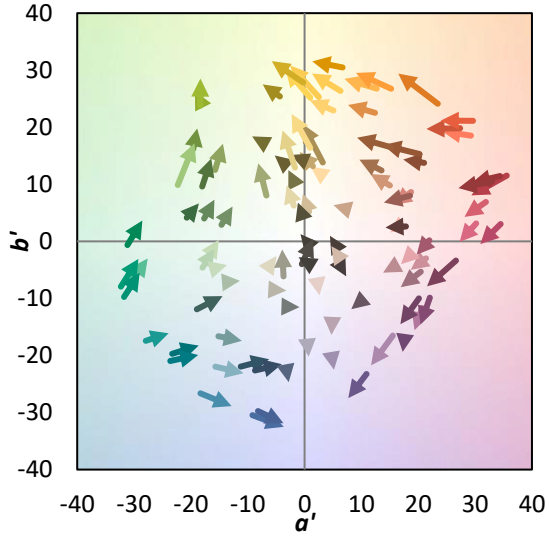


Color Vector Graphics







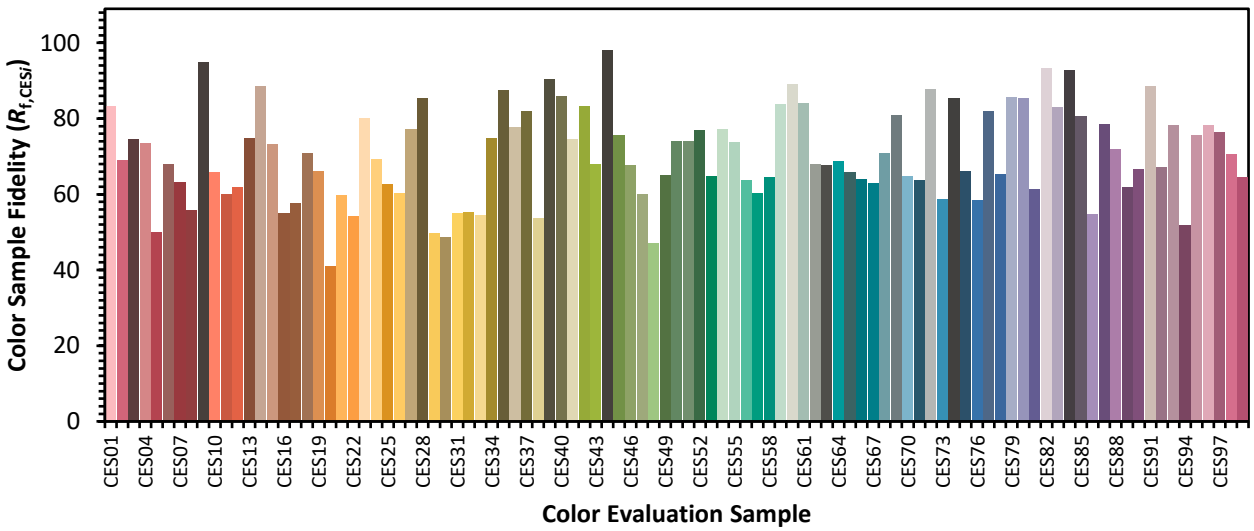


REPORT NUMBER: SP1-2407-184-2

TM-30-18

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

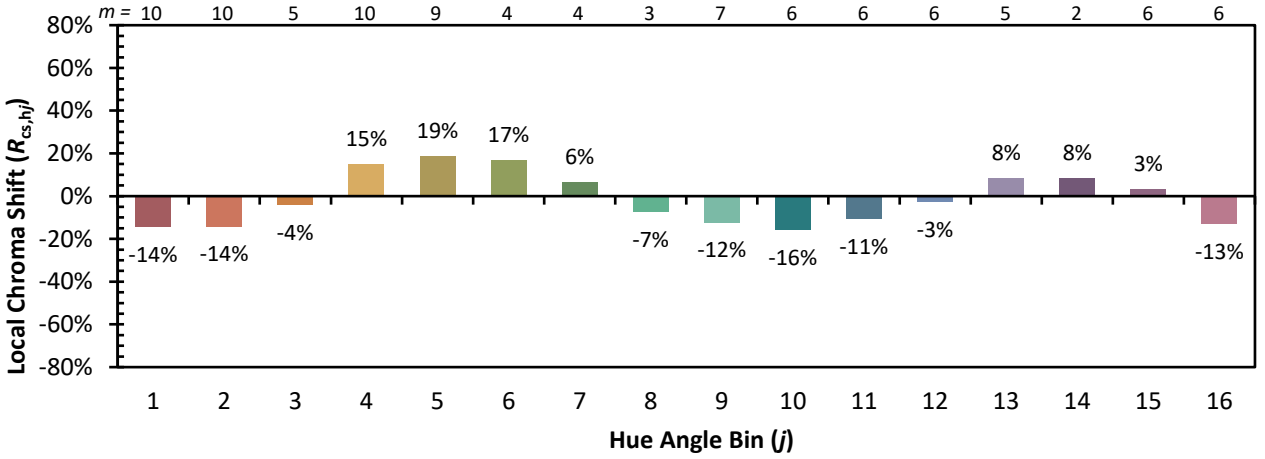
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	

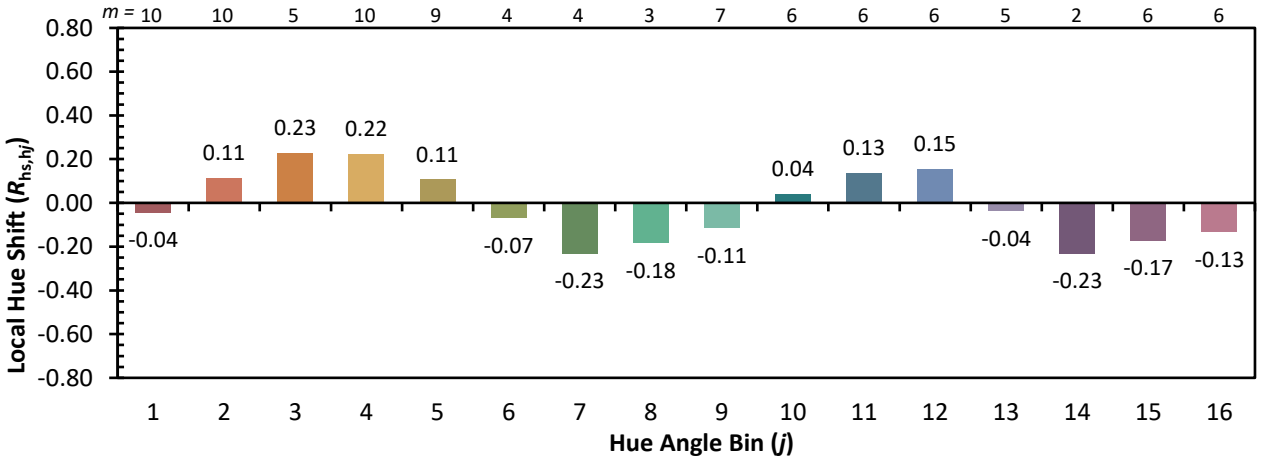


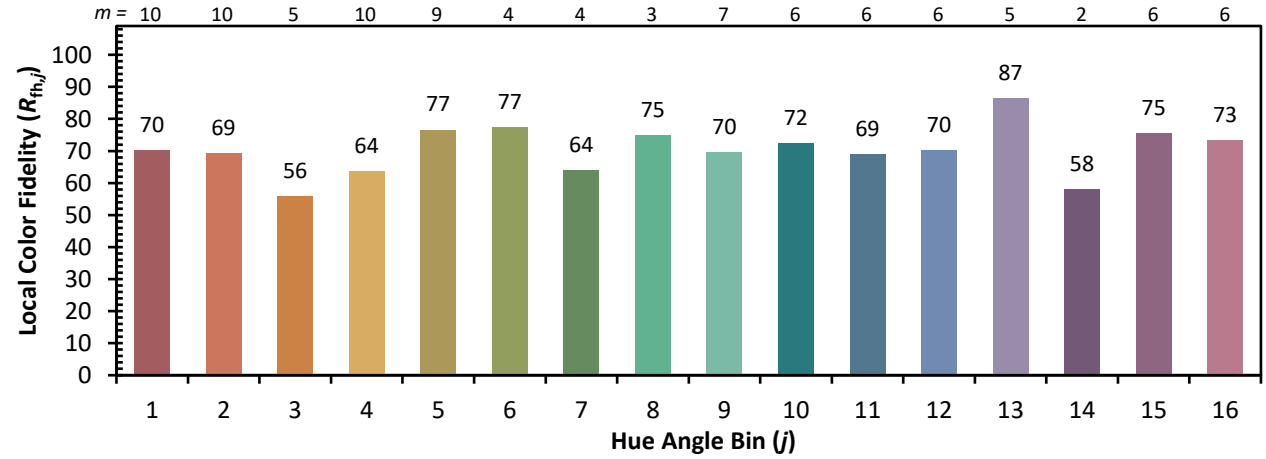
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Color Rendition by Hue-Angle Bin



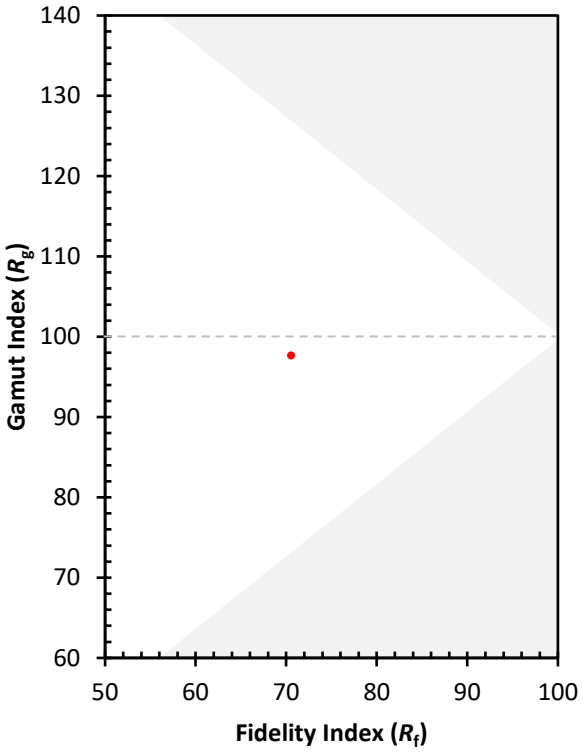


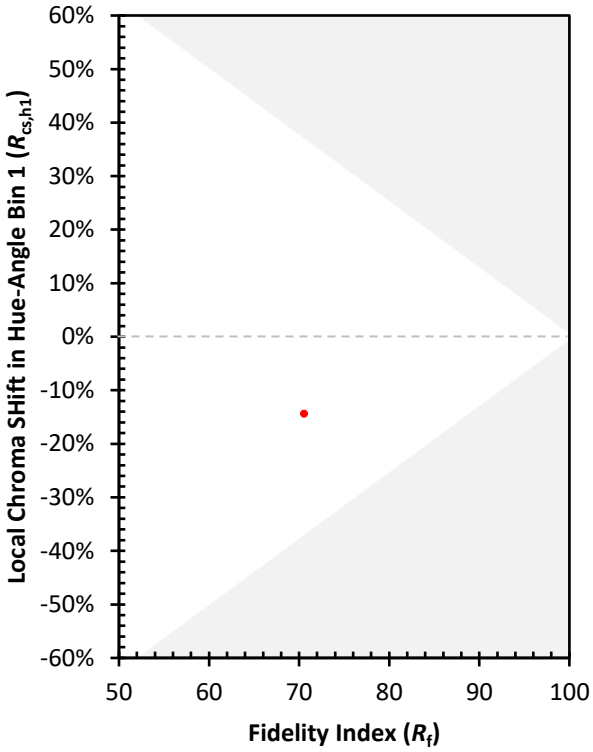


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Measure Comparisons





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