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: P1501334

Luminaire Tested: GSS-SB3B-740-U-T2LG

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:	P1501334
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3B-740-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 109W 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16639.6 lumens
Efficiency:	N/A
Efficacy:	152.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

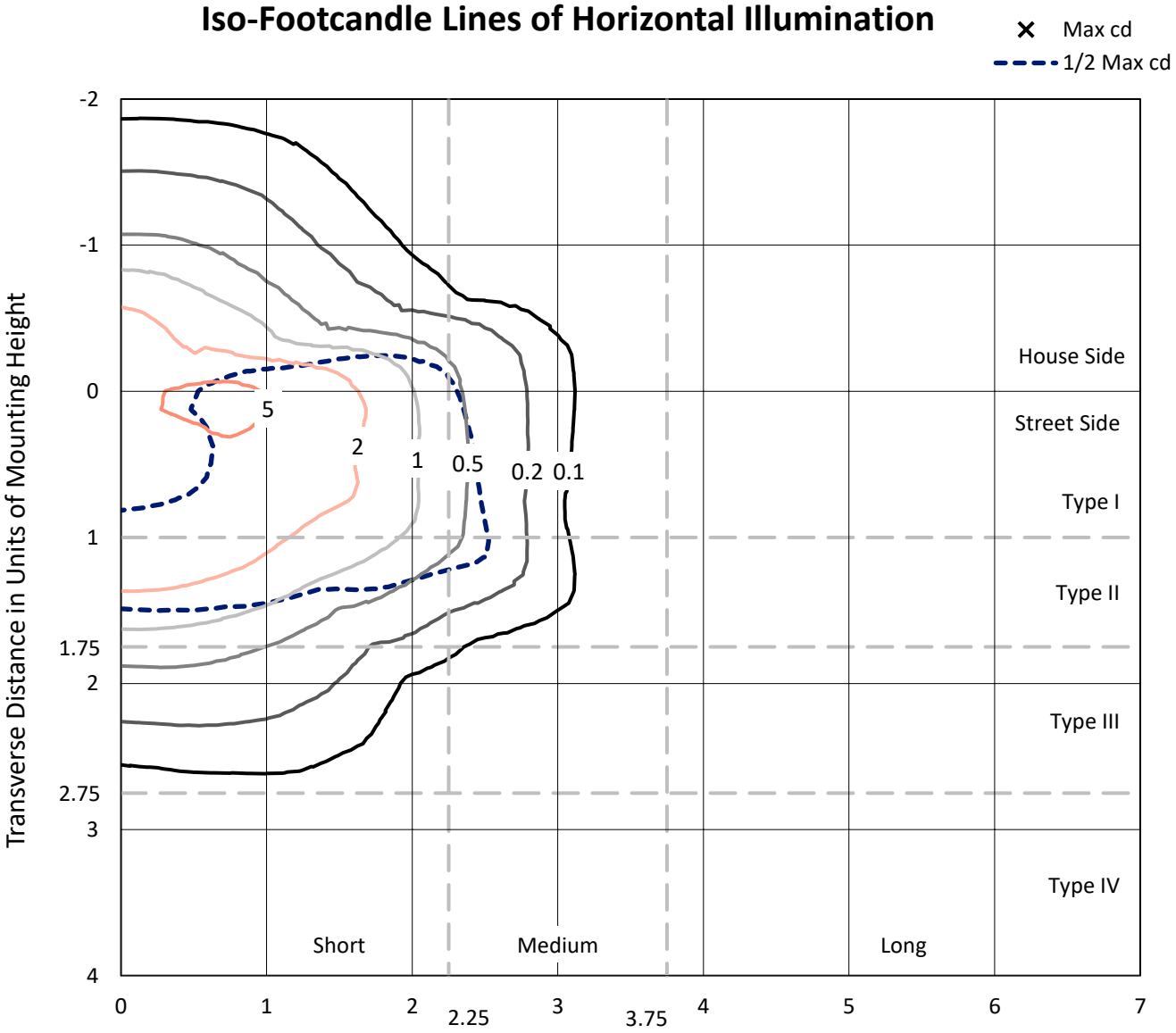
Input Watts (W):	109
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



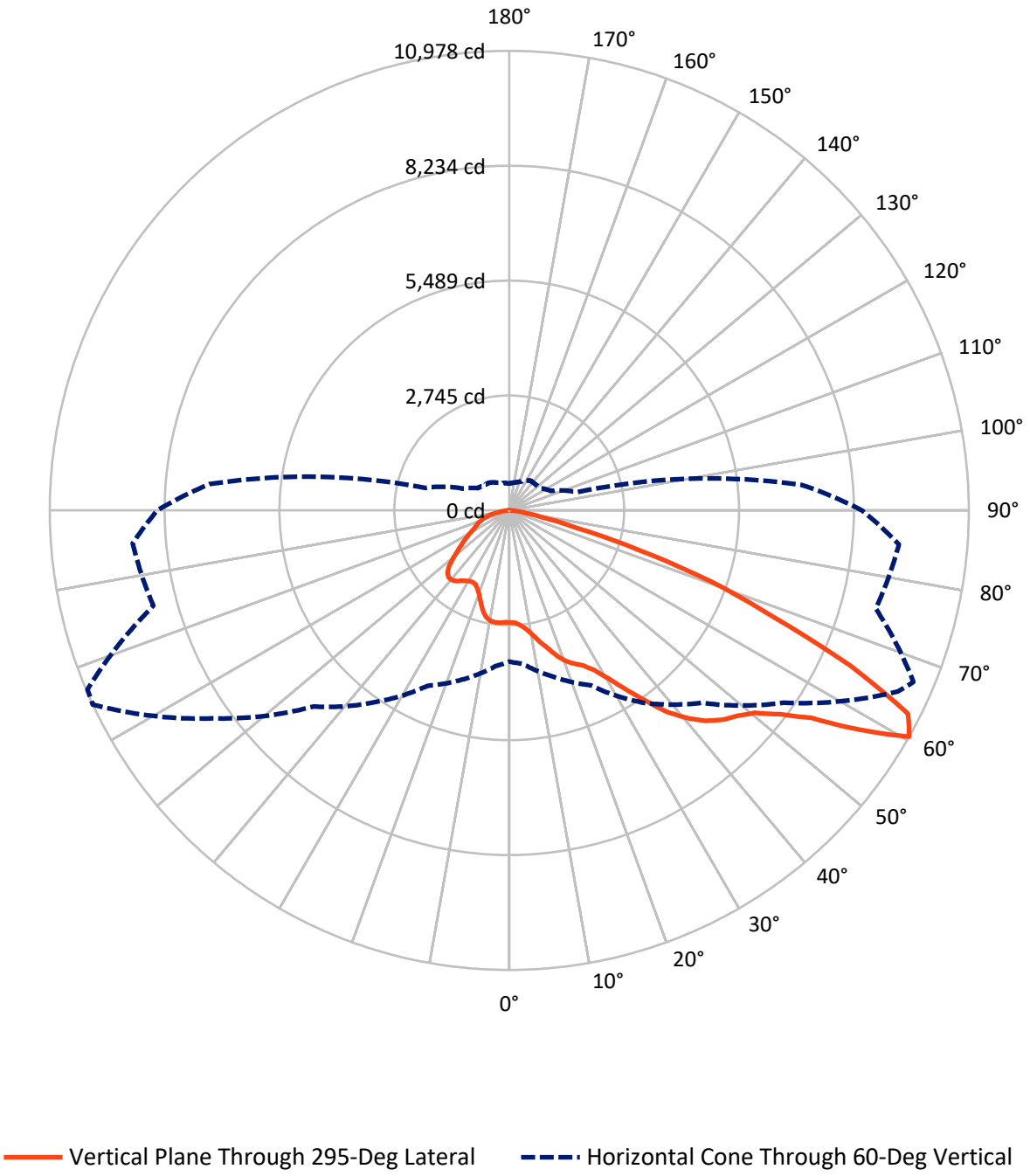
Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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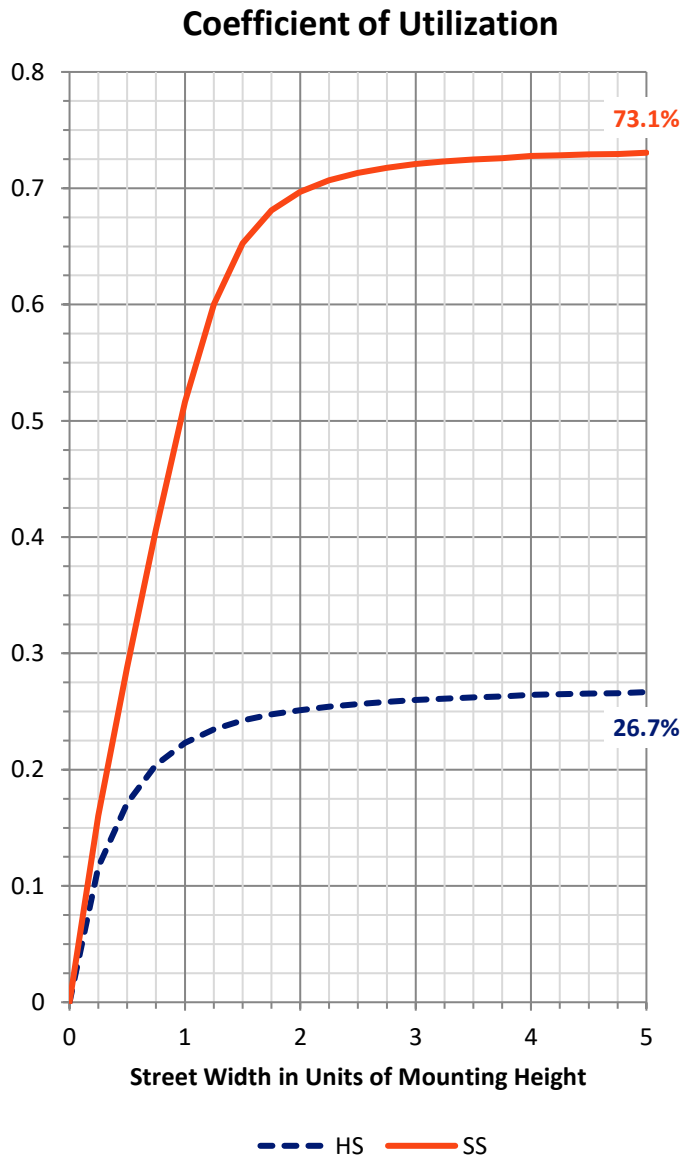
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4474.6	0.0	4474.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12165.0	0.0	12165.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	16639.6	0.0	16639.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.5
10°-20°	723.6	4.3
20°-30°	1370.7	8.2
30°-40°	2416.4	14.5
40°-50°	3573.6	21.5
50°-60°	4196.4	25.2
60°-70°	3040.5	18.3
70°-80°	937.6	5.6
80°-90°	129.1	0.8
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°	16639.6	100.0
0°-180°	16639.6	100.0



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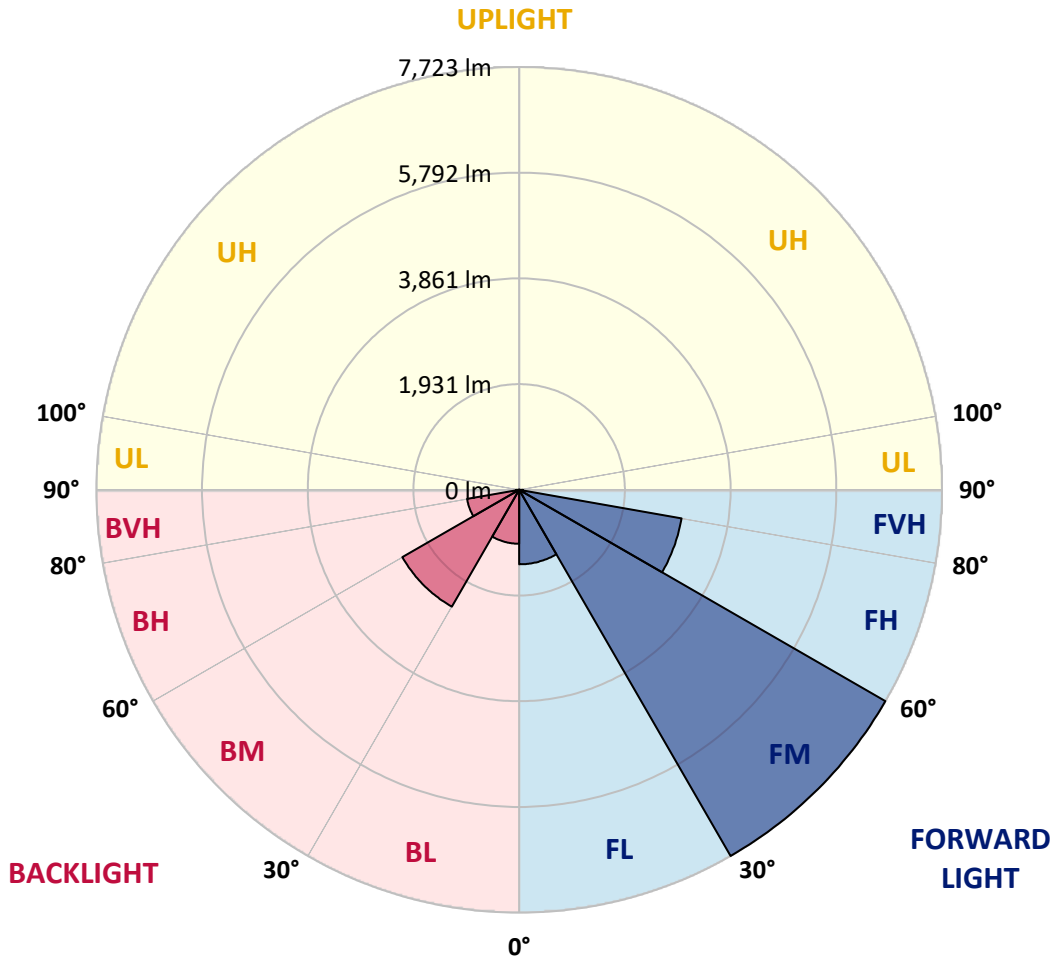
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1360.6	8.2			
FM	(30°-60°)	7722.5	46.4			
FH	(60°-80°)	3012.3	18.1			G2/5000
FVH	(80°-90°)	69.6	0.4			G1/100
BL	(0°-30°)	985.5	5.9	B2/1000		
BM	(30°-60°)	2463.8	14.8	B2/2500		
BH	(60°-80°)	965.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.4			G1/100
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°	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2
2.5°	2730.3	2737.9	2726.5	2734.1	2734.1	2722.7	2718.9	2703.8	2711.4	2707.6	2703.8
5°	2794.8	2798.6	2791.0	2802.4	2802.4	2806.2	2802.4	2783.4	2783.4	2783.4	2775.8
7.5°	2775.8	2775.8	2779.6	2817.5	2855.5	2904.8	2904.8	2897.2	2904.8	2901.0	2866.8
10°	2616.6	2631.7	2665.9	2760.7	2851.7	2957.8	3029.9	3052.6	3052.6	3056.4	2999.6
12.5°	2332.1	2343.5	2423.2	2567.3	2756.9	2950.3	3124.7	3238.5	3249.8	3268.8	3193.0
15°	2078.1	2085.7	2142.5	2290.4	2506.6	2847.9	3177.8	3412.9	3450.8	3530.5	3416.7
17.5°	2100.8	2097.0	2112.2	2169.1	2324.6	2681.0	3166.4	3617.7	3685.9	3826.2	3727.6
20°	2237.3	2237.3	2248.7	2260.1	2317.0	2559.7	3083.0	3784.5	3917.3	4190.3	4076.5
22.5°	2453.5	2453.5	2449.7	2468.7	2468.7	2612.8	3086.8	3909.7	4106.9	4596.0	4486.1
25°	2753.1	2737.9	2737.9	2745.5	2711.4	2813.7	3181.6	4038.6	4296.5	5077.6	4982.8
27.5°	3090.6	3101.9	3094.4	3067.8	3022.3	3101.9	3409.1	4239.6	4508.8	5585.8	5547.9
30°	3458.4	3462.2	3469.8	3454.6	3416.7	3473.6	3765.6	4542.9	4789.4	6116.7	6200.1
32.5°	3818.7	3871.7	3852.8	3814.9	3830.0	3932.4	4205.5	4952.5	5206.6	6609.7	6905.4
35°	4277.5	4296.5	4372.3	4232.0	4235.8	4410.2	4766.7	5491.0	5737.5	7121.6	7610.8
37.5°	4944.9	4979.0	4944.9	4725.0	4690.8	4933.5	5312.7	6021.9	6200.1	7508.4	8266.8
40°	5600.9	5642.7	5699.5	5441.7	5225.5	5426.5	5828.5	6427.6	6613.4	7720.7	8702.9
42.5°	6143.2	6211.5	6150.8	6075.0	5877.8	5915.7	6188.7	6742.4	6928.2	7990.0	9142.8
45°	6602.1	6613.4	6640.0	6586.9	6488.3	6454.2	6495.9	7019.2	7224.0	8111.3	9358.9
47.5°	6791.7	6841.0	6863.7	6954.7	7057.1	6988.9	6757.5	7148.1	7333.9	8103.7	9427.2
50°	6689.3	6738.6	6859.9	7076.1	7322.6	7443.9	7064.7	7326.4	7534.9	8240.3	9567.5
52.5°	6420.0	6473.1	6670.3	6916.8	7330.2	7607.0	7497.0	7698.0	7899.0	8483.0	9802.6
55°	5767.8	5847.4	6124.3	6533.8	7102.6	7519.8	7952.1	8244.1	8464.0	8774.9	10045.3
57.5°	4819.8	4903.2	5214.2	5828.5	6681.7	7159.5	8084.8	9267.9	9366.5	9123.8	10068.1
60°	*3610.1*	*3678.3*	*4118.2*	*4611.2*	*5612.3*	*6499.7*	*8008.9*	*10238.7*	*10489.0*	*9063.1*	*9343.8*
62.5°	2859.3	2942.7	3333.3	3560.8	4277.5	5369.6	7743.5	10507.9	10724.1	8562.6	8335.1
65°	2233.6	2290.4	2654.5	2980.6	3155.0	3667.0	6636.2	9192.1	9385.5	7747.3	6878.9
67.5°	1475.1	1562.3	1994.7	2442.1	2533.1	2332.1	4565.7	7072.3	7163.3	6158.4	5172.4
70°	1058.0	1099.7	1422.0	1899.8	2036.4	1562.3	2487.6	5354.5	5381.0	4133.4	3485.0
72.5°	720.5	728.1	967.0	1456.2	1623.0	1133.8	1369.0	3526.7	3435.7	2040.2	1994.7
75°	489.2	496.8	618.1	970.8	1149.0	788.8	891.1	1922.6	1846.8	1126.3	1209.7
77.5°	329.9	337.5	424.7	652.2	766.0	546.1	652.2	1016.3	997.3	747.0	648.5
80°	250.3	261.7	314.7	417.1	534.7	318.5	371.6	481.6	489.2	398.2	329.9
82.5°	140.3	155.5	189.6	212.4	345.1	178.2	178.2	288.2	276.8	246.5	178.2
85°	60.7	64.5	75.8	79.6	140.3	75.8	64.5	125.1	128.9	121.3	56.9
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.2	15.2	15.2	15.2
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°	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2
2.5°	2684.8	2707.6	2684.8	2673.4	2673.4	2654.5	2646.9	2646.9	2620.3	2631.7	2624.1
5°	2745.5	2753.1	2726.5	2692.4	2646.9	2609.0	2555.9	2487.6	2445.9	2442.1	2445.9
7.5°	2840.3	2844.1	2772.0	2696.2	2582.4	2445.9	2282.9	2150.1	2032.6	2013.6	2036.4
10°	2973.0	2965.4	2859.3	2681.0	2442.1	2153.9	1903.6	1782.3	1714.0	1710.2	1706.5
12.5°	3151.2	3101.9	2938.9	2616.6	2199.4	1865.7	1736.8	1729.2	1748.2	1763.3	1767.1
15°	3356.0	3291.6	3003.4	2491.4	1952.9	1759.5	1767.1	1831.6	1854.3	1869.5	1869.5
17.5°	3610.1	3526.7	3075.4	2313.2	1827.8	1782.3	1835.4	1896.1	1934.0	1949.1	1945.4
20°	3947.6	3773.2	3132.3	2142.5	1793.7	1820.2	1865.7	1926.4	1964.3	1983.3	1983.3
22.5°	4285.1	4068.9	3143.7	2025.0	1793.7	1824.0	1865.7	1926.4	1968.1	1987.1	1983.3
25°	4743.9	4448.1	3147.5	1941.6	1797.5	1805.0	1843.0	1896.1	1956.7	1975.7	1983.3
27.5°	5233.1	4865.3	3166.4	1922.6	1782.3	1778.5	1805.0	1854.3	1915.0	1964.3	1968.1
30°	5839.9	5335.5	3174.0	1941.6	1786.1	1736.8	1755.7	1805.0	1869.5	1918.8	1934.0
32.5°	6435.2	5771.6	3158.8	1983.3	1793.7	1710.2	1714.0	1744.4	1812.6	1846.8	1873.3
35°	7064.7	6234.2	3132.3	2040.2	1797.5	1698.9	1664.7	1679.9	1725.4	1729.2	1740.6
37.5°	7557.7	6579.3	3052.6	2116.0	1805.0	1657.2	1588.9	1577.5	1558.6	1520.6	1528.2
40°	7963.4	6810.6	2919.9	2153.9	1786.1	1607.9	1494.1	1441.0	1369.0	1312.1	1323.4
42.5°	8255.4	6966.1	2760.7	2161.5	1755.7	1524.4	1384.1	1293.1	1213.5	1152.8	1156.6
45°	8384.4	6950.9	2590.0	2104.6	1683.7	1422.0	1281.7	1194.5	1107.3	1042.8	1035.2
47.5°	8388.2	6803.0	2354.9	1968.1	1562.3	1304.5	1186.9	1092.1	1020.1	974.6	970.8
50°	8418.5	6719.6	2135.0	1770.9	1403.1	1179.3	1103.5	1008.7	967.0	902.5	883.6
52.5°	8608.1	6856.1	1983.3	1554.8	1255.2	1088.3	1031.5	948.0	879.8	838.1	834.3
55°	8915.3	7091.2	1899.8	1391.7	1114.9	1001.1	963.2	891.1	830.5	788.8	777.4
57.5°	8953.2	7212.6	1801.3	1240.0	1001.1	932.9	917.7	838.1	750.8	720.5	709.1
60°	*8422.3*	*7007.8*	*1679.9*	*1099.7*	*917.7*	*879.8*	*872.2*	*766.0*	*694.0*	*656.0*	*640.9*
62.5°	7698.0	6495.9	1494.1	970.8	853.2	826.7	796.3	712.9	621.9	580.2	568.8
65°	6291.1	5460.6	1270.4	883.6	788.8	758.4	750.8	637.1	576.4	553.6	549.9
67.5°	4766.7	4387.5	1118.7	819.1	720.5	709.1	682.6	644.7	618.1	591.6	584.0
70°	3371.2	3166.4	951.8	735.7	652.2	633.3	743.3	701.5	606.7	572.6	568.8
72.5°	2043.9	1987.1	822.9	659.8	561.2	591.6	686.4	633.3	546.1	504.4	489.2
75°	1289.3	1179.3	690.2	561.2	447.5	481.6	599.2	565.0	470.2	428.5	417.1
77.5°	701.5	652.2	519.5	458.8	352.7	390.6	523.3	466.4	375.4	409.5	364.0
80°	307.2	341.3	345.1	265.4	235.1	288.2	375.4	364.0	288.2	292.0	242.7
82.5°	147.9	193.4	223.7	182.0	132.7	170.6	250.3	208.6	193.4	182.0	174.4
85°	45.5	72.1	98.6	87.2	60.7	72.1	117.6	113.8	136.5	117.6	110.0
87.5°	15.2	15.2	11.4	11.4	11.4	15.2	19.0	11.4	3.8	3.8	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°	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2
2.5°	2620.3	2624.1	2624.1	2627.9	2627.9	2639.3	2654.5	2669.6	2658.3	2673.4	2677.2
5°	2438.3	2457.3	2472.5	2529.3	2574.8	2612.8	2654.5	2692.4	2703.8	2711.4	2730.3
7.5°	2009.8	2062.9	2161.5	2290.4	2434.5	2574.8	2669.6	2768.2	2783.4	2802.4	2828.9
10°	1710.2	1733.0	1801.3	1934.0	2191.8	2468.7	2700.0	2855.5	2919.9	2957.8	2984.4
12.5°	1759.5	1744.4	1733.0	1752.0	1918.8	2275.3	2681.0	2980.6	3101.9	3143.7	3177.8
15°	1877.1	1861.9	1820.2	1767.1	1786.1	2070.5	2616.6	3098.2	3291.6	3359.8	3431.9
17.5°	1945.4	1930.2	1896.1	1839.2	1789.9	1899.8	2495.2	3204.3	3591.1	3674.6	3776.9
20°	1983.3	1968.1	1934.0	1877.1	1820.2	1835.4	2339.7	3337.1	3932.4	4065.1	4216.8
22.5°	1990.9	1971.9	1934.0	1877.1	1843.0	1831.6	2191.8	3416.7	4300.3	4505.0	4679.5
25°	1987.1	1952.9	1903.6	1861.9	1843.0	1839.2	2089.5	3462.2	4698.4	5024.5	5221.7
27.5°	1960.5	1918.8	1869.5	1839.2	1831.6	1854.3	2043.9	3515.3	5164.9	5582.0	5896.7
30°	1930.2	1869.5	1808.8	1797.5	1816.4	1888.5	2081.9	3534.2	5654.0	6188.7	6511.1
32.5°	1850.6	1805.0	1744.4	1740.6	1786.1	1915.0	2169.1	3507.7	6086.3	6795.5	7201.2
35°	1736.8	1710.2	1676.1	1687.5	1759.5	1937.8	2229.8	3424.3	6480.7	7360.5	7834.5
37.5°	1535.8	1554.8	1573.7	1600.3	1691.3	1934.0	2256.3	3291.6	6806.8	7811.7	8418.5
40°	1312.1	1376.5	1437.2	1505.5	1626.8	1903.6	2263.9	3128.5	6996.4	8153.0	8938.0
42.5°	1171.8	1232.4	1308.3	1406.9	1539.6	1835.4	2256.3	2946.5	7057.1	8388.2	9267.9
45°	1042.8	1114.9	1209.7	1312.1	1463.8	1736.8	2188.0	2749.3	7087.5	8498.1	9408.2
47.5°	974.6	1016.3	1103.5	1205.9	1365.2	1615.4	2055.3	2605.2	7042.0	8520.9	9578.9
50°	894.9	951.8	1008.7	1107.3	1262.8	1463.8	1896.1	2521.8	7117.8	8744.6	9848.1
52.5°	834.3	864.6	925.3	1016.3	1130.0	1323.4	1744.4	2453.5	7326.4	8972.1	10128.7
55°	788.8	822.9	860.8	936.7	1023.9	1183.1	1588.9	2351.1	7569.1	9214.8	10409.3
57.5°	716.7	739.5	792.6	872.2	929.1	1046.6	1406.9	2229.8	7550.1	9025.2	9924.0
60°	*652.2*	*675.0*	*731.9*	*811.5*	*845.6*	*925.3*	*1228.6*	*2074.3*	*7186.1*	*8407.1*	*9029.0*
62.5°	580.2	606.7	675.0	731.9	762.2	822.9	1042.8	1789.9	6427.6	7478.0	7982.4
65°	549.9	565.0	610.5	678.8	675.0	731.9	879.8	1406.9	5172.4	5714.7	6173.6
67.5°	584.0	606.7	599.2	618.1	606.7	637.1	788.8	1130.0	4065.1	4304.0	4569.5
70°	576.4	629.5	656.0	618.1	530.9	565.0	682.6	902.5	2908.5	2885.8	2874.4
72.5°	504.4	557.4	633.3	671.2	519.5	470.2	591.6	781.2	1865.7	1858.1	1679.9
75°	428.5	466.4	557.4	606.7	447.5	379.2	508.1	663.6	1114.9	1130.0	1008.7
77.5°	394.4	375.4	466.4	534.7	364.0	292.0	409.5	500.6	614.3	621.9	576.4
80°	284.4	273.0	348.9	390.6	276.8	208.6	231.3	311.0	329.9	295.8	307.2
82.5°	182.0	185.8	208.6	250.3	170.6	113.8	159.3	208.6	178.2	144.1	170.6
85°	117.6	132.7	110.0	128.9	53.1	53.1	68.3	91.0	60.7	41.7	45.5
87.5°	0.0	0.0	7.6	15.2	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

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

Scaled Data Report

REPORT NUMBER: P1501334
CATALOG NUMBER: GSS-SB3B-740-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2	2677.2
2.5°	2688.6	2684.8	2684.8	2692.4	2711.4	2718.9	2730.3	2726.5	2737.9	2730.3
5°	2741.7	2745.5	2756.9	2760.7	2772.0	2787.2	2791.0	2787.2	2794.8	2794.8
7.5°	2847.9	2863.0	2855.5	2874.4	2859.3	2840.3	2810.0	2787.2	2768.2	2775.8
10°	3026.1	3018.5	3014.7	2980.6	2912.3	2813.7	2734.1	2646.9	2631.7	2616.6
12.5°	3223.3	3215.7	3215.7	3098.2	2904.8	2700.0	2518.0	2381.4	2335.9	2332.1
15°	3500.1	3450.8	3405.3	3158.8	2772.0	2423.2	2210.8	2104.6	2078.1	2078.1
17.5°	3845.2	3716.3	3640.4	3113.3	2555.9	2241.1	2116.0	2089.5	2081.9	2100.8
20°	4273.7	3947.6	3837.6	3010.9	2476.2	2263.9	2203.2	2207.0	2210.8	2237.3
22.5°	4743.9	4159.9	3977.9	3010.9	2555.9	2408.0	2377.7	2419.4	2430.7	2453.5
25°	5267.2	4349.6	4103.1	3170.2	2791.0	2681.0	2643.1	2684.8	2715.2	2753.1
27.5°	5855.0	4546.7	4319.2	3458.4	3094.4	3026.1	2984.4	3003.4	3045.1	3090.6
30°	6382.1	4876.7	4649.1	3898.3	3507.7	3424.3	3352.2	3382.6	3428.1	3458.4
32.5°	6848.6	5278.6	5085.2	4360.9	3981.7	3837.6	3758.0	3750.4	3841.4	3818.7
35°	7277.1	5752.6	5566.8	4888.0	4463.3	4285.1	4178.9	4315.4	4254.7	4277.5
37.5°	7614.6	6245.6	6097.7	5392.4	4963.9	4721.2	4656.7	4823.6	4918.4	4944.9
40°	7891.4	6674.1	6518.6	5892.9	5422.7	5244.5	5346.9	5623.7	5612.3	5600.9
42.5°	8103.7	7042.0	6871.3	6272.2	5862.6	5896.7	5976.4	6162.2	6207.7	6143.2
45°	8198.5	7273.3	7136.8	6571.7	6363.2	6560.4	6594.5	6674.1	6643.8	6602.1
47.5°	8308.5	7478.0	7333.9	6844.8	6905.4	7098.8	7030.6	6966.1	6856.1	6791.7
50°	8494.3	7720.7	7599.4	7242.9	7462.9	7398.4	7133.0	6988.9	6765.1	6689.3
52.5°	8847.0	8179.6	8088.6	7872.4	7724.5	7352.9	7030.6	6772.7	6522.4	6420.0
55°	9161.7	8801.5	8748.4	8460.2	7644.9	7114.0	6681.7	6283.5	5855.0	5767.8
57.5°	9343.8	9832.9	9893.6	8710.5	7280.9	6571.7	5934.7	5297.6	4891.8	4819.8
60°	8801.5	10947.8	10978.2	8661.2	6624.8	5593.4	4622.6	4171.3	3735.2	3610.1
62.5°	8054.4	10716.5	10690.0	8365.4	5274.8	4080.3	3511.5	3299.1	2961.6	2859.3
65°	6924.4	8926.6	8957.0	7227.8	3507.7	2950.3	2950.3	2681.0	2305.6	2233.6
67.5°	5642.7	6882.7	6814.4	4687.0	2153.9	2362.5	2476.2	2089.5	1562.3	1475.1
70°	3667.0	5255.9	5161.1	2703.8	1353.8	1968.1	1949.1	1569.9	1118.7	1058.0
72.5°	1577.5	3037.5	3230.9	1380.3	1020.1	1585.1	1554.8	1099.7	747.0	720.5
75°	951.8	1528.2	1664.7	879.8	743.3	1194.5	1077.0	697.7	508.1	489.2
77.5°	602.9	838.1	830.5	659.8	557.4	807.7	724.3	481.6	345.1	329.9
80°	348.9	413.3	428.5	413.3	375.4	576.4	462.6	348.9	269.2	250.3
82.5°	223.7	257.9	261.7	201.0	208.6	371.6	250.3	204.8	155.5	140.3
85°	98.6	110.0	106.2	68.3	68.3	151.7	87.2	83.4	60.7	60.7
87.5°	3.8	7.6	3.8	3.8	3.8	15.2	7.6	11.4	11.4	11.4
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

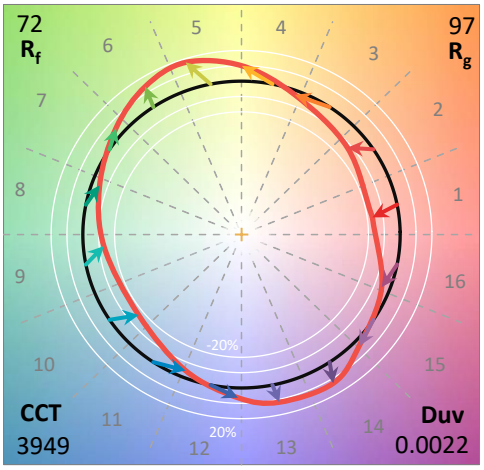
Test Information

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

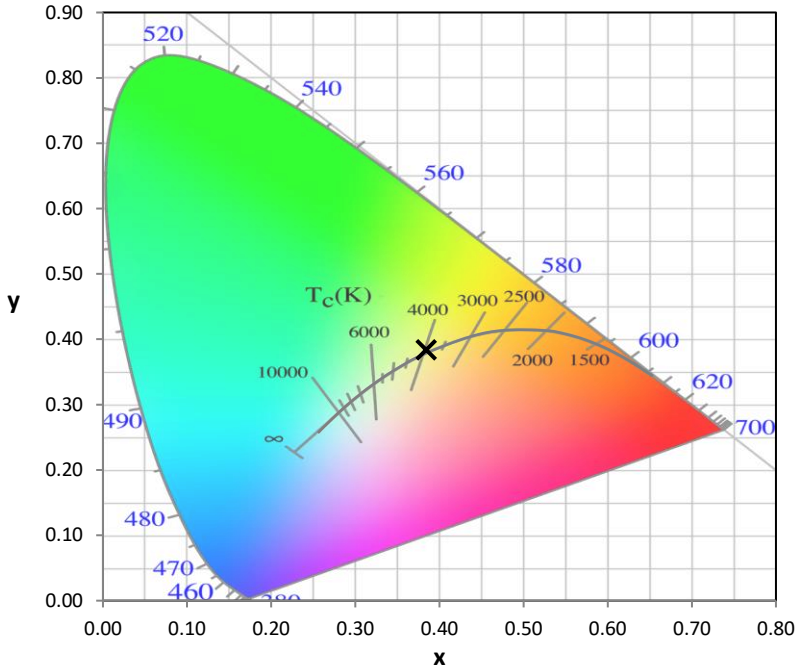
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

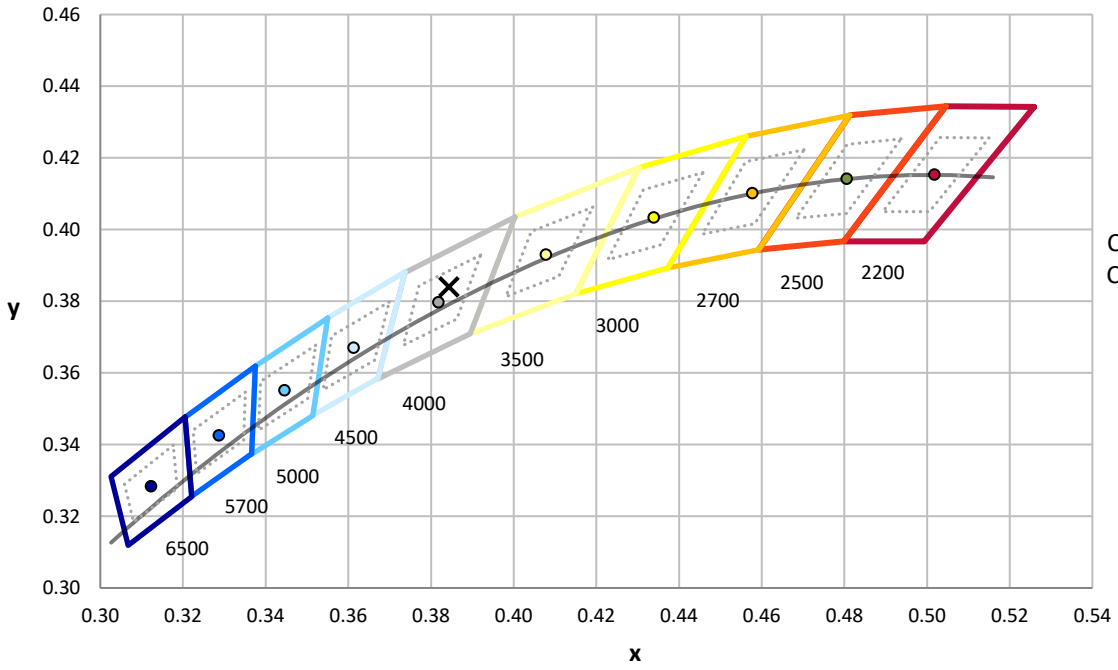
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

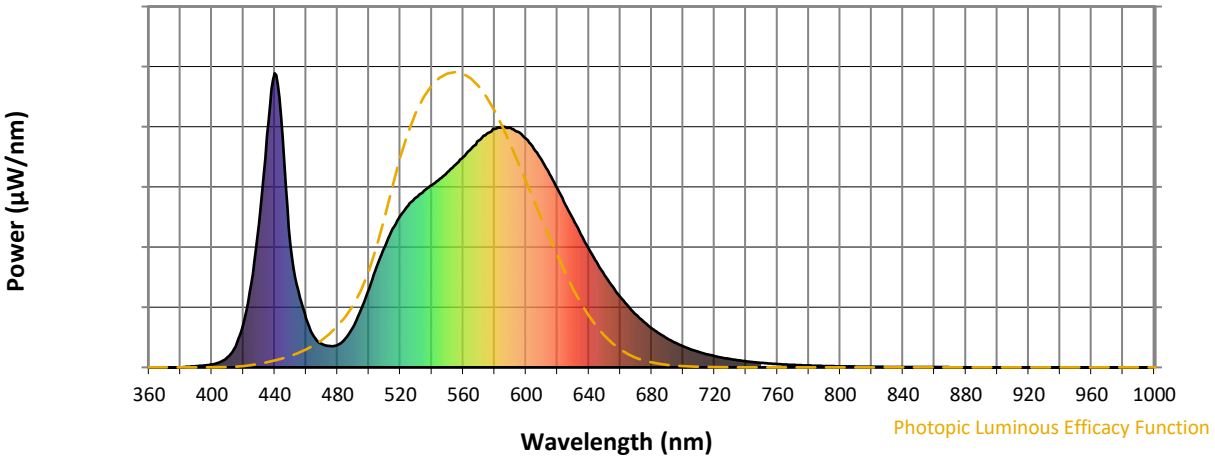


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

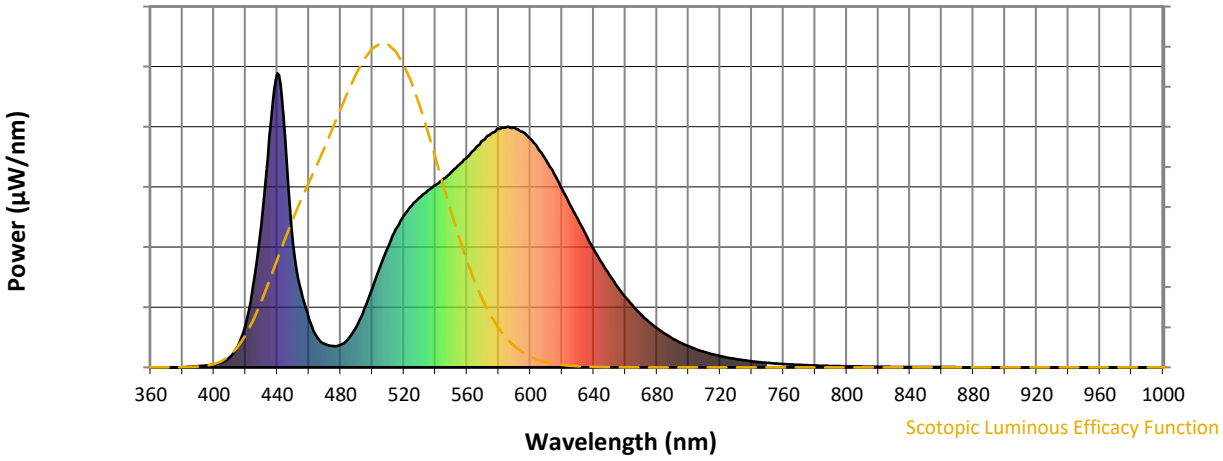


Photopic Lumens: NR

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

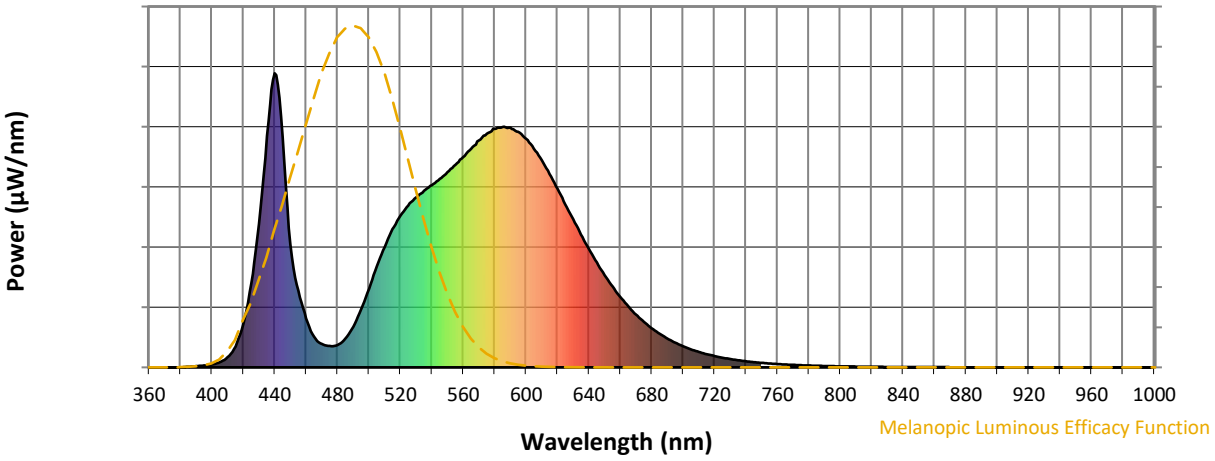


Scotopic Lumens: NR **S/P: 1.47**

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			

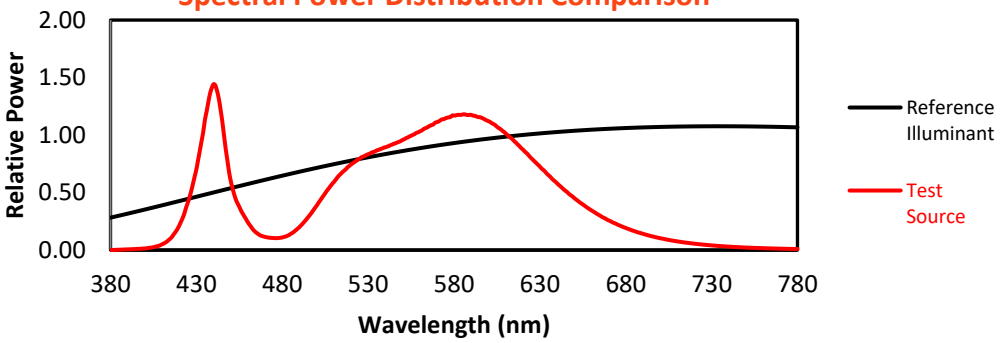
REPORT NUMBER: SP1-2407-184-1

TM-30-18

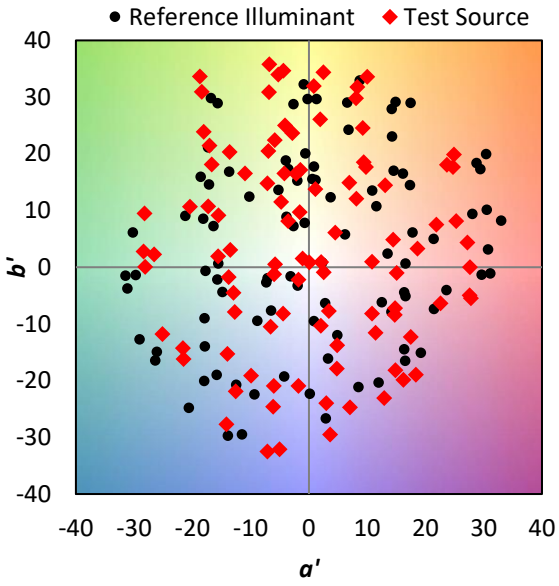
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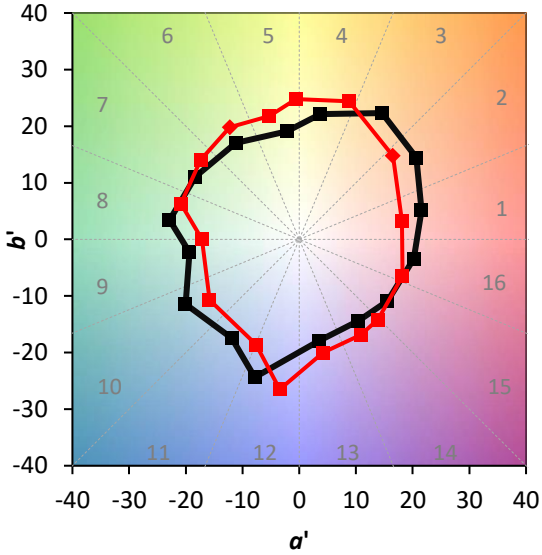
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

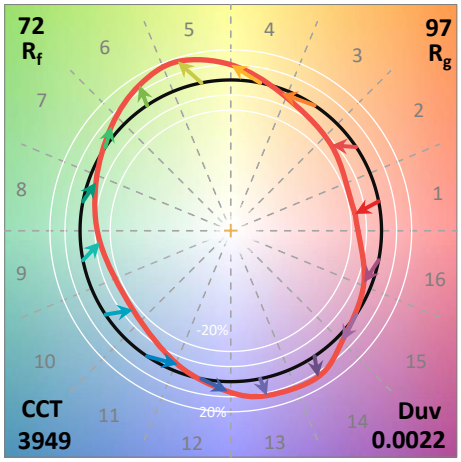
Spectral Power Distribution Comparison

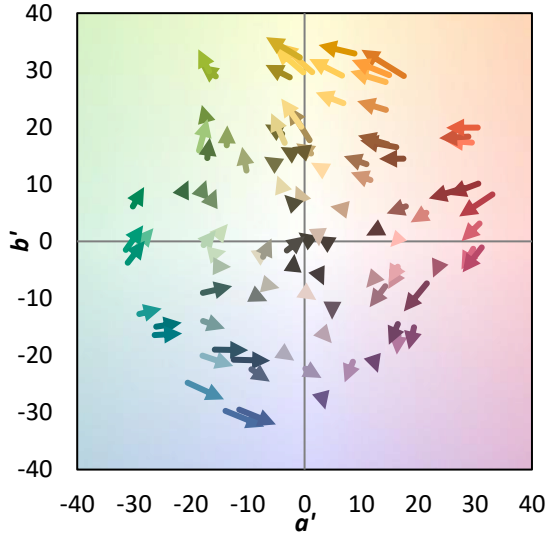


Color Vector Graphics







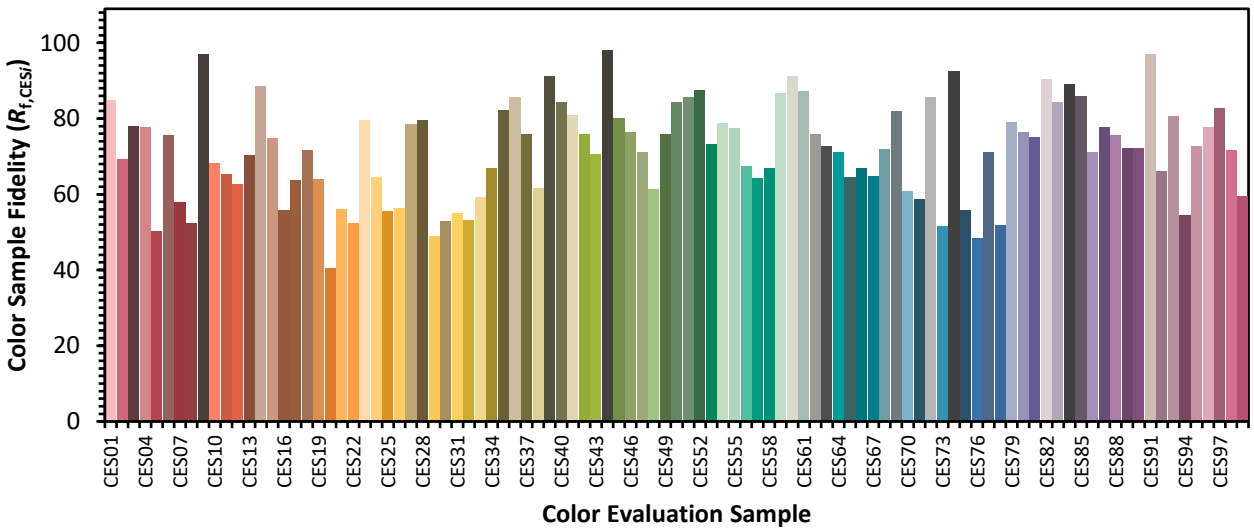


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Individual Sample Fidelity Index ($R_{f,i}$)

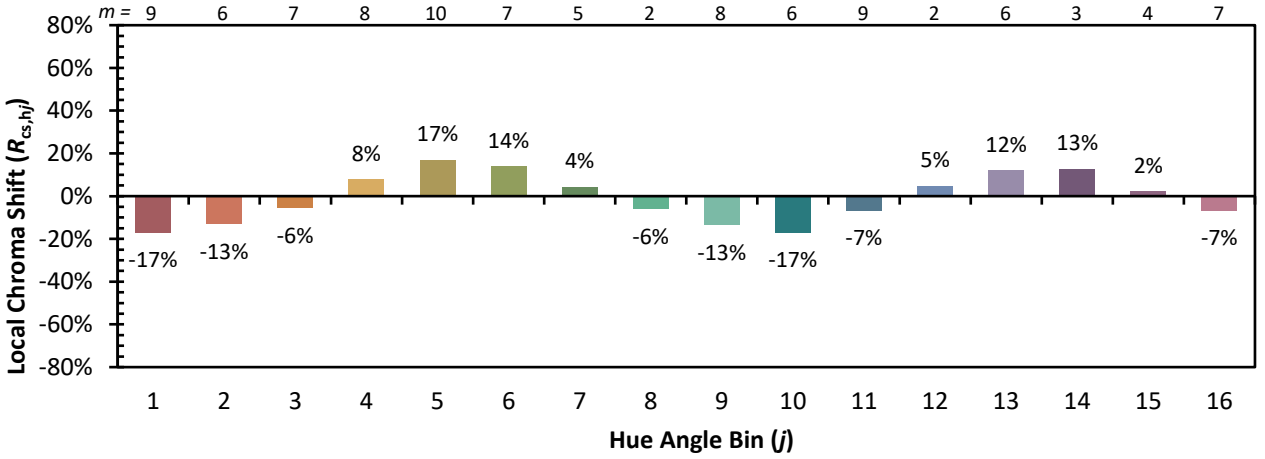
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CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 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	

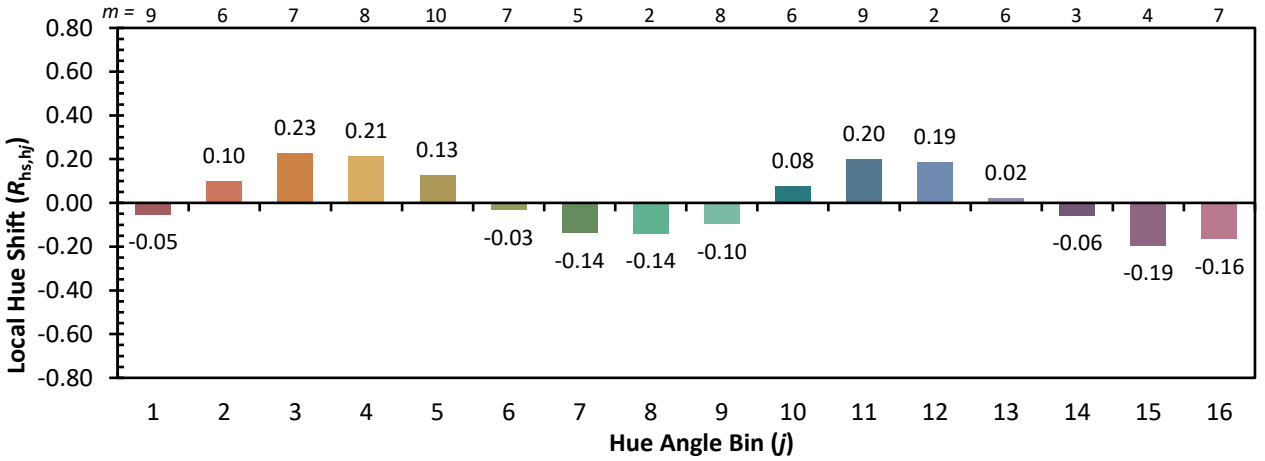


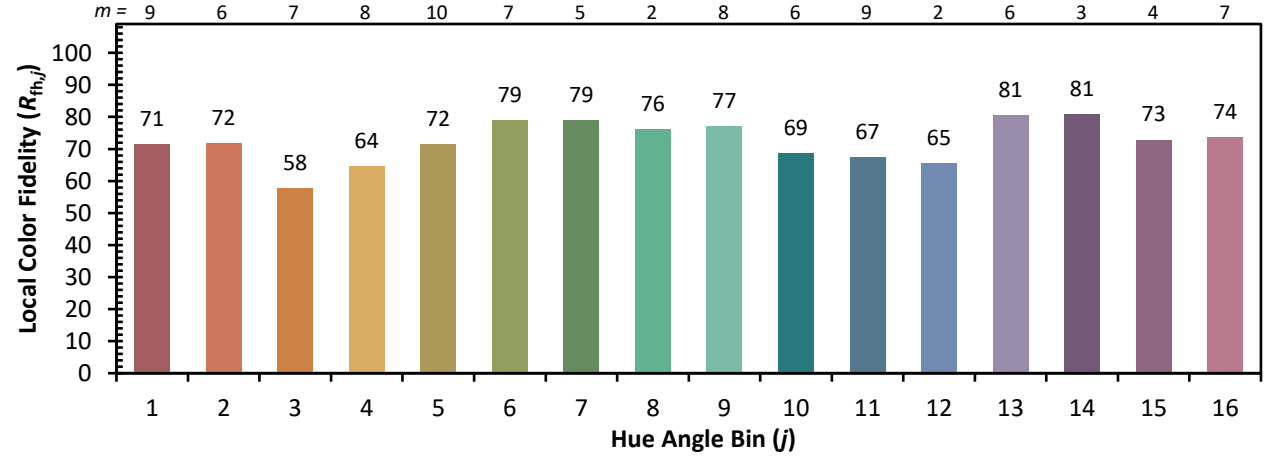
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Color Rendition by Hue-Angle Bin



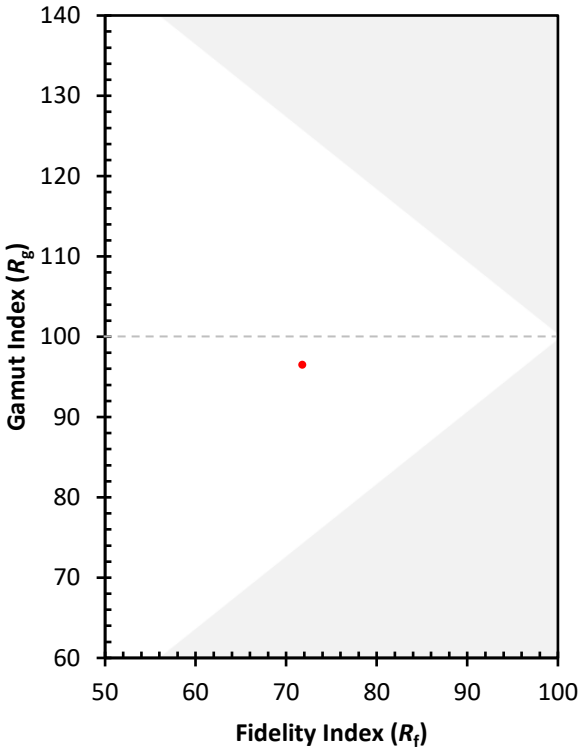


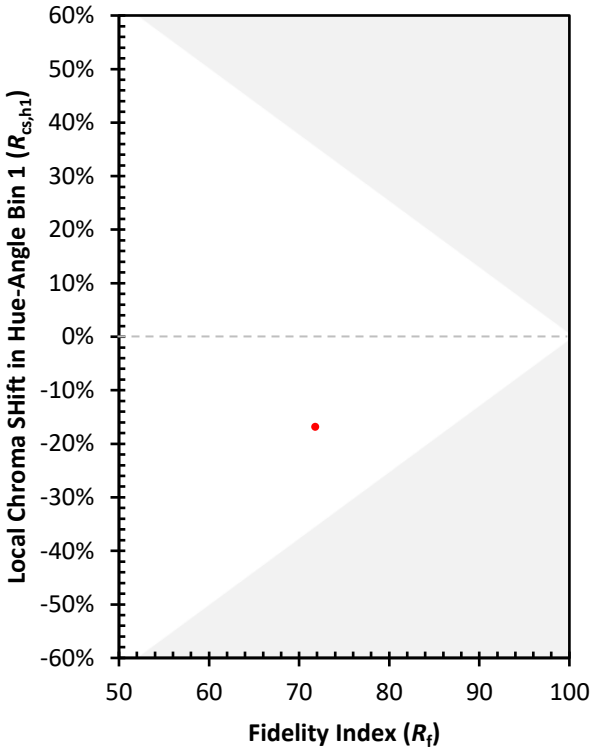


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Measure Comparisons





(END OF REPORT)