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: P1501409

Luminaire Tested: GSS-SB4A-730-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:	P1501409
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-730-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17351.3 lumens
Efficiency:	N/A
Efficacy:	152.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

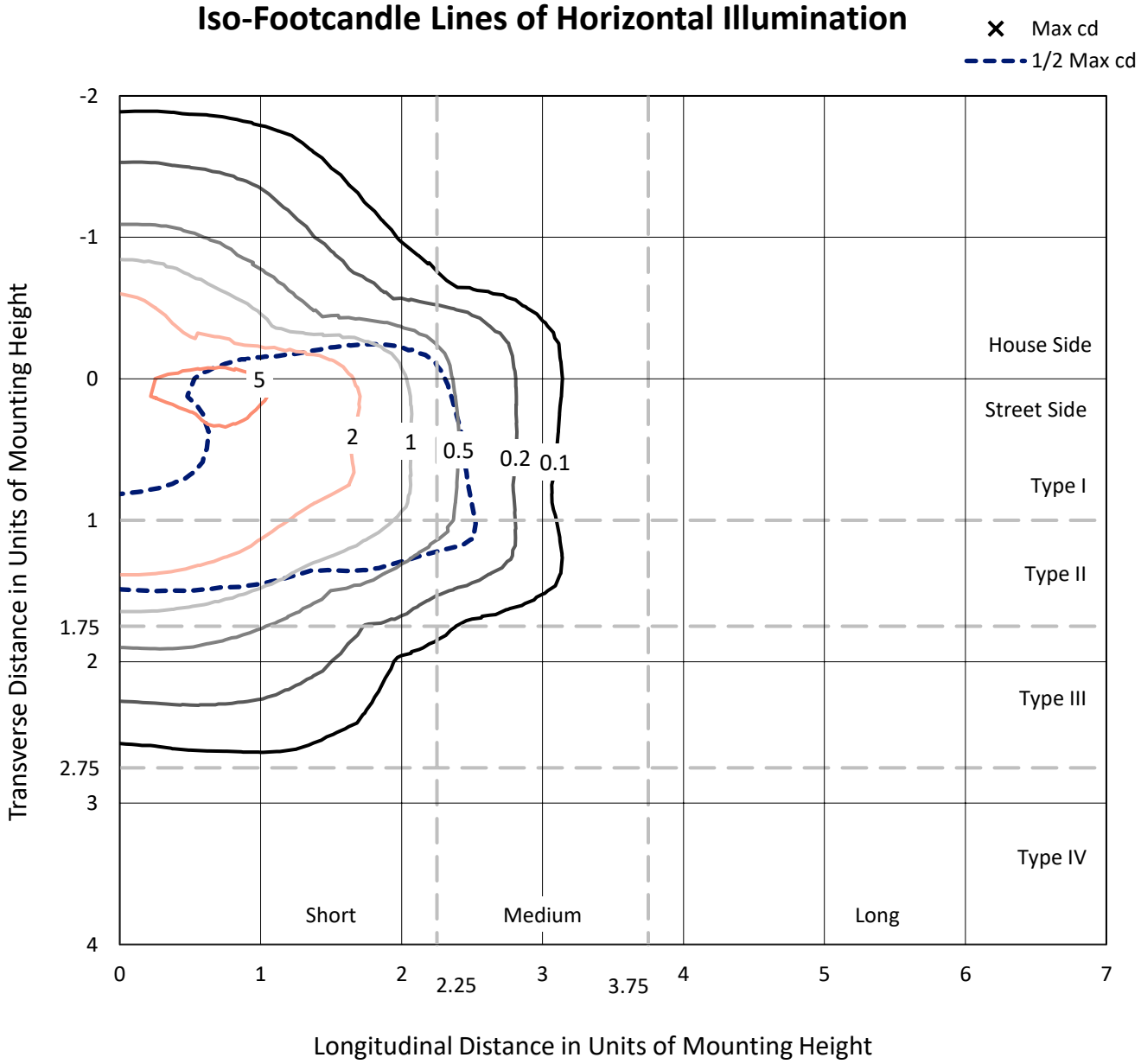
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



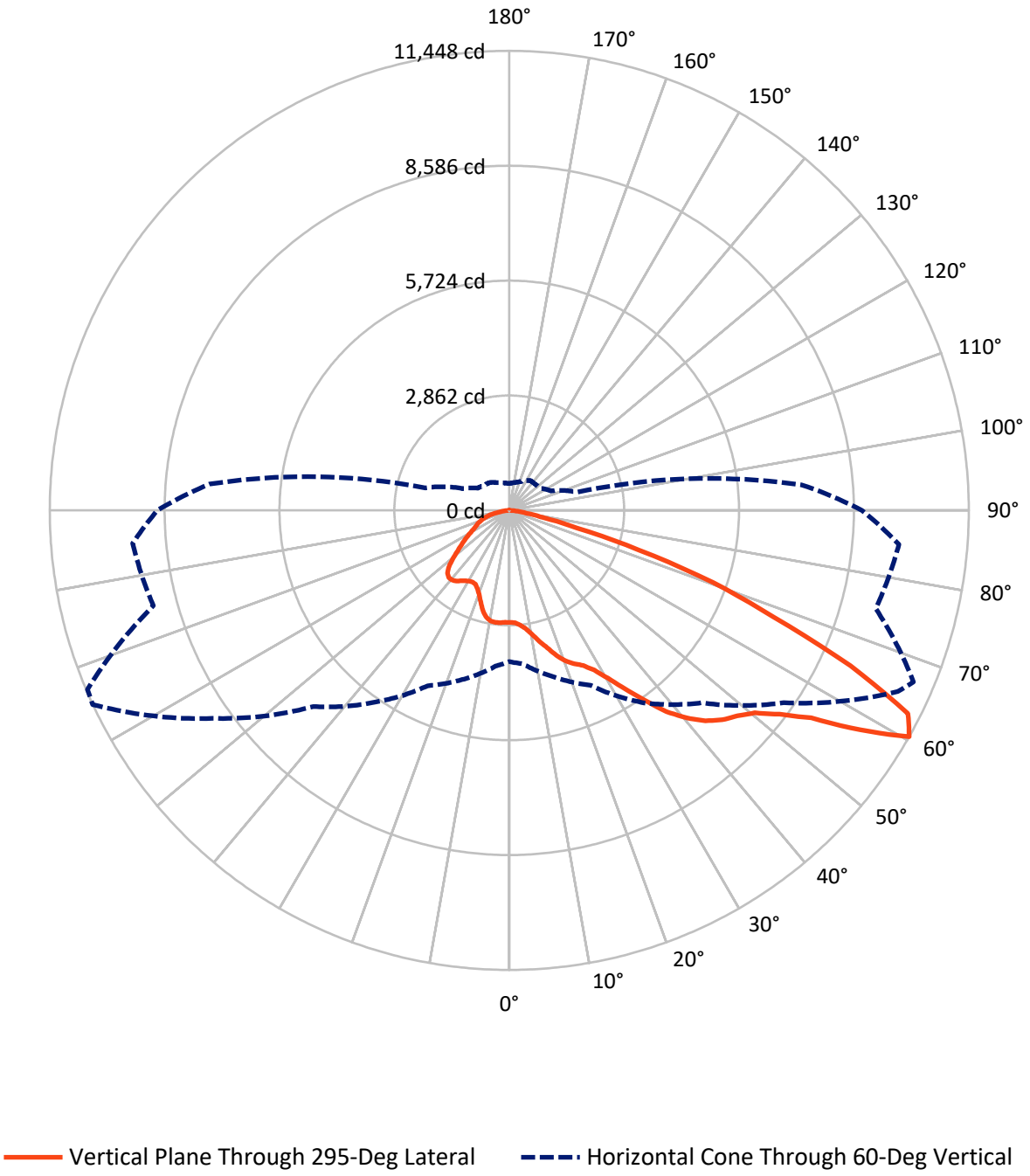
Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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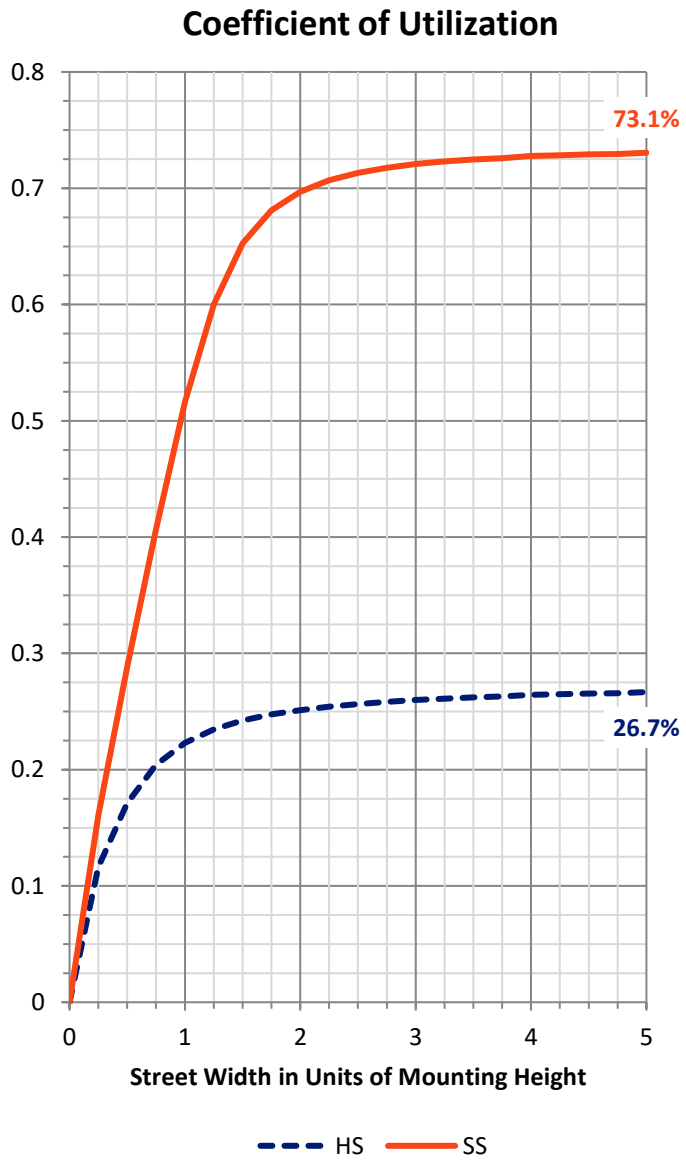
REPORT NUMBER: P1501409
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4666.0	0.0	4666.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12685.3	0.0	12685.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	17351.3	0.0	17351.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.5
10°-20°	754.6	4.3
20°-30°	1429.3	8.2
30°-40°	2519.8	14.5
40°-50°	3726.4	21.5
50°-60°	4375.9	25.2
60°-70°	3170.5	18.3
70°-80°	977.8	5.6
80°-90°	134.6	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°	17351.3	100.0
0°-180°	17351.3	100.0



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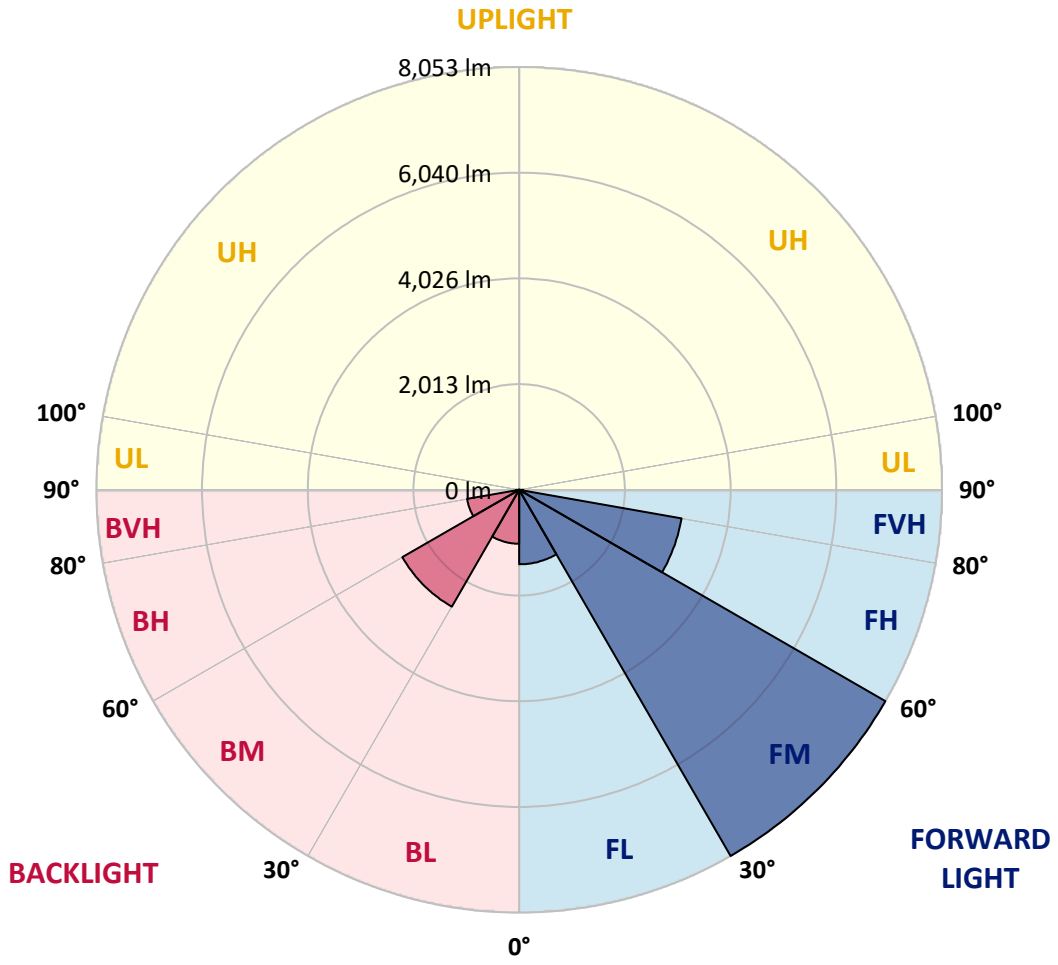
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1418.7	8.2			
FM	(30°-60°)	8052.8	46.4			
FH	(60°-80°)	3141.1	18.1			G2/5000
FVH	(80°-90°)	72.6	0.4			G1/100
BL	(0°-30°)	1027.6	5.9	B3/2500		
BM	(30°-60°)	2569.2	14.8	B3/5000		
BH	(60°-80°)	1007.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	62.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7
2.5°	2847.1	2855.0	2843.1	2851.1	2851.1	2839.2	2835.2	2819.4	2827.3	2823.4	2819.4
5°	2914.3	2918.3	2910.4	2922.2	2922.2	2926.2	2922.2	2902.5	2902.5	2902.5	2894.5
7.5°	2894.5	2894.5	2898.5	2938.0	2977.6	3029.0	3029.0	3021.1	3029.0	3025.0	2989.5
10°	2728.5	2744.3	2779.9	2878.7	2973.6	3084.4	3159.5	3183.2	3183.2	3187.2	3127.9
12.5°	2431.9	2443.8	2526.8	2677.1	2874.8	3076.4	3258.3	3377.0	3388.8	3408.6	3329.5
15°	2167.0	2174.9	2234.2	2388.4	2613.8	2969.7	3313.7	3558.9	3598.4	3681.5	3562.8
17.5°	2190.7	2186.7	2202.5	2261.9	2424.0	2795.7	3301.8	3772.4	3843.6	3989.9	3887.1
20°	2333.0	2333.0	2344.9	2356.8	2416.1	2669.2	3214.8	3946.4	4084.8	4369.5	4250.9
22.5°	2558.4	2558.4	2554.5	2574.3	2574.3	2724.5	3218.8	4076.9	4282.5	4792.6	4677.9
25°	2870.8	2855.0	2855.0	2862.9	2827.3	2934.1	3317.7	4211.3	4480.2	5294.8	5196.0
27.5°	3222.8	3234.6	3226.7	3199.0	3151.6	3234.6	3554.9	4420.9	4701.7	5824.7	5785.1
30°	3606.3	3610.3	3618.2	3602.4	3562.8	3622.1	3926.6	4737.3	4994.3	6378.3	6465.3
32.5°	3982.0	4037.3	4017.6	3978.0	3993.8	4100.6	4385.3	5164.3	5429.3	6892.3	7200.8
35°	4460.5	4480.2	4559.3	4413.0	4417.0	4598.9	4970.6	5725.8	5982.9	7426.2	7936.3
37.5°	5156.4	5192.0	5156.4	4927.1	4891.5	5144.5	5540.0	6279.4	6465.3	7829.5	8620.4
40°	5840.5	5884.0	5943.3	5674.4	5449.0	5658.6	6077.8	6702.5	6896.3	8051.0	9075.1
42.5°	6406.0	6477.1	6413.9	6334.8	6129.2	6168.7	6453.4	7030.7	7224.5	8331.7	9533.8
45°	6884.4	6896.3	6924.0	6868.6	6765.8	6730.2	6773.7	7319.4	7532.9	8458.3	9759.2
47.5°	7082.2	7133.6	7157.3	7252.2	7359.0	7287.8	7046.6	7453.9	7647.6	8450.3	9830.4
50°	6975.4	7026.8	7153.3	7378.7	7635.8	7762.3	7366.9	7639.7	7857.2	8592.7	9976.7
52.5°	6694.6	6750.0	6955.6	7212.6	7643.7	7932.3	7817.7	8027.2	8236.8	8845.8	10221.9
55°	6014.5	6097.5	6386.2	6813.3	7406.4	7841.4	8292.2	8596.7	8826.0	9150.3	10474.9
57.5°	5025.9	5112.9	5437.2	6077.8	6967.5	7465.7	8430.6	9664.3	9767.1	9514.0	10498.7
60°	*3764.5*	*3835.7*	*4294.4*	*4808.4*	*5852.4*	*6777.7*	*8351.5*	*10676.6*	*10937.6*	*9450.8*	*9743.4*
62.5°	2981.5	3068.5	3475.8	3713.1	4460.5	5599.3	8074.7	10957.4	11182.8	8928.8	8691.6
65°	2329.1	2388.4	2768.0	3108.1	3290.0	3823.8	6920.0	9585.2	9786.9	8078.6	7173.1
67.5°	1538.2	1629.2	2080.0	2546.6	2641.5	2431.9	4761.0	7374.8	7469.7	6421.8	5393.7
70°	1103.3	1146.7	1482.9	1981.1	2123.5	1629.2	2594.0	5583.5	5611.2	4310.2	3634.0
72.5°	751.3	759.2	1008.3	1518.5	1692.4	1182.3	1427.5	3677.5	3582.6	2127.4	2080.0
75°	510.1	518.0	644.6	1012.3	1198.2	822.5	929.3	2004.8	1925.7	1174.4	1261.4
77.5°	344.0	351.9	442.9	680.1	798.8	569.4	680.1	1059.8	1040.0	779.0	676.2
80°	261.0	272.8	328.2	435.0	557.6	332.2	387.5	502.2	510.1	415.2	344.0
82.5°	146.3	162.1	197.7	221.4	359.8	185.9	185.9	300.5	288.7	257.0	185.9
85°	63.3	67.2	79.1	83.0	146.3	79.1	67.2	130.5	134.4	126.5	59.3
87.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	15.8	15.8	15.8	15.8
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°	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7
2.5°	2799.6	2823.4	2799.6	2787.8	2787.8	2768.0	2760.1	2760.1	2732.4	2744.3	2736.4
5°	2862.9	2870.8	2843.1	2807.6	2760.1	2720.6	2665.2	2594.0	2550.5	2546.6	2550.5
7.5°	2961.8	2965.7	2890.6	2811.5	2692.9	2550.5	2380.5	2242.1	2119.5	2099.7	2123.5
10°	3100.2	3092.3	2981.5	2795.7	2546.6	2246.0	1985.1	1858.5	1787.3	1783.4	1779.4
12.5°	3286.0	3234.6	3064.6	2728.5	2293.5	1945.5	1811.1	1803.2	1822.9	1838.8	1842.7
15°	3499.6	3432.3	3131.8	2598.0	2036.5	1834.8	1842.7	1909.9	1933.7	1949.5	1949.5
17.5°	3764.5	3677.5	3206.9	2412.1	1906.0	1858.5	1913.9	1977.2	2016.7	2032.5	2028.6
20°	4116.4	3934.5	3266.3	2234.2	1870.4	1898.1	1945.5	2008.8	2048.3	2068.1	2068.1
22.5°	4468.4	4243.0	3278.1	2111.6	1870.4	1902.0	1945.5	2008.8	2052.3	2072.1	2068.1
25°	4946.8	4638.4	3282.1	2024.6	1874.3	1882.2	1921.8	1977.2	2040.4	2060.2	2068.1
27.5°	5456.9	5073.4	3301.8	2004.8	1858.5	1854.6	1882.2	1933.7	1996.9	2048.3	2052.3
30°	6089.6	5563.7	3309.8	2024.6	1862.5	1811.1	1830.8	1882.2	1949.5	2000.9	2016.7
32.5°	6710.4	6018.4	3293.9	2068.1	1870.4	1783.4	1787.3	1819.0	1890.2	1925.7	1953.4
35°	7366.9	6500.9	3266.3	2127.4	1874.3	1771.5	1735.9	1751.8	1799.2	1803.2	1815.0
37.5°	7880.9	6860.7	3183.2	2206.5	1882.2	1728.0	1656.9	1645.0	1625.2	1585.7	1593.6
40°	8304.0	7101.9	3044.8	2246.0	1862.5	1676.6	1558.0	1502.6	1427.5	1368.2	1380.1
42.5°	8608.5	7264.1	2878.7	2254.0	1830.8	1589.6	1443.3	1348.4	1265.4	1202.1	1206.1
45°	8743.0	7248.2	2700.8	2194.6	1755.7	1482.9	1336.6	1245.6	1154.7	1087.4	1079.5
47.5°	8746.9	7094.0	2455.6	2052.3	1629.2	1360.3	1237.7	1138.8	1063.7	1016.3	1012.3
50°	8778.5	7007.0	2226.3	1846.7	1463.1	1229.8	1150.7	1051.8	1008.3	941.1	921.4
52.5°	8976.3	7149.4	2068.1	1621.3	1308.9	1134.9	1075.6	988.6	917.4	873.9	869.9
55°	9296.6	7394.5	1981.1	1451.2	1162.6	1043.9	1004.4	929.3	866.0	822.5	810.6
57.5°	9336.1	7521.1	1878.3	1293.1	1043.9	972.8	956.9	873.9	783.0	751.3	739.5
60°	*8782.5*	*7307.5*	*1751.8*	*1146.7*	*956.9*	*917.4*	*909.5*	*798.8*	*723.6*	*684.1*	*668.3*
62.5°	8027.2	6773.7	1558.0	1012.3	889.7	862.0	830.4	743.4	648.5	605.0	593.1
65°	6560.2	5694.2	1324.7	921.4	822.5	790.9	783.0	664.3	601.1	577.3	573.4
67.5°	4970.6	4575.1	1166.5	854.1	751.3	739.5	711.8	672.2	644.6	616.9	609.0
70°	3515.4	3301.8	992.5	767.1	680.1	660.4	775.0	731.5	632.7	597.1	593.1
72.5°	2131.4	2072.1	858.1	688.0	585.2	616.9	715.7	660.4	569.4	525.9	510.1
75°	1344.5	1229.8	719.7	585.2	466.6	502.2	624.8	589.2	490.3	446.8	435.0
77.5°	731.5	680.1	541.7	478.5	367.8	407.3	545.7	486.4	391.5	427.1	379.6
80°	320.3	355.9	359.8	276.8	245.2	300.5	391.5	379.6	300.5	304.5	253.1
82.5°	154.2	201.7	233.3	189.8	138.4	177.9	261.0	217.5	201.7	189.8	181.9
85°	47.5	75.1	102.8	90.9	63.3	75.1	122.6	118.6	142.4	122.6	114.7
87.5°	15.8	15.8	11.9	11.9	11.9	15.8	19.8	11.9	4.0	4.0	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°	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7
2.5°	2732.4	2736.4	2736.4	2740.3	2740.3	2752.2	2768.0	2783.8	2772.0	2787.8	2791.7
5°	2542.6	2562.4	2578.2	2637.5	2685.0	2724.5	2768.0	2807.6	2819.4	2827.3	2847.1
7.5°	2095.8	2151.1	2254.0	2388.4	2538.7	2685.0	2783.8	2886.6	2902.5	2922.2	2949.9
10°	1783.4	1807.1	1878.3	2016.7	2285.6	2574.3	2815.5	2977.6	3044.8	3084.4	3112.0
12.5°	1834.8	1819.0	1807.1	1826.9	2000.9	2372.6	2795.7	3108.1	3234.6	3278.1	3313.7
15°	1957.4	1941.6	1898.1	1842.7	1862.5	2159.0	2728.5	3230.7	3432.3	3503.5	3578.6
17.5°	2028.6	2012.7	1977.2	1917.8	1866.4	1981.1	2601.9	3341.4	3744.7	3831.7	3938.5
20°	2068.1	2052.3	2016.7	1957.4	1898.1	1913.9	2439.8	3479.8	4100.6	4239.0	4397.2
22.5°	2076.0	2056.2	2016.7	1957.4	1921.8	1909.9	2285.6	3562.8	4484.2	4697.7	4879.6
25°	2072.1	2036.5	1985.1	1941.6	1921.8	1917.8	2178.8	3610.3	4899.4	5239.4	5445.1
27.5°	2044.4	2000.9	1949.5	1917.8	1909.9	1933.7	2131.4	3665.6	5385.8	5820.7	6148.9
30°	2012.7	1949.5	1886.2	1874.3	1894.1	1969.2	2170.9	3685.4	5895.9	6453.4	6789.5
32.5°	1929.7	1882.2	1819.0	1815.0	1862.5	1996.9	2261.9	3657.7	6346.7	7086.1	7509.2
35°	1811.1	1783.4	1747.8	1759.7	1834.8	2020.6	2325.1	3570.7	6757.9	7675.3	8169.6
37.5°	1601.5	1621.3	1641.0	1668.7	1763.6	2016.7	2352.8	3432.3	7098.0	8145.9	8778.5
40°	1368.2	1435.4	1498.7	1569.9	1696.4	1985.1	2360.7	3262.3	7295.7	8501.7	9320.3
42.5°	1221.9	1285.1	1364.2	1467.0	1605.4	1913.9	2352.8	3072.5	7359.0	8746.9	9664.3
45°	1087.4	1162.6	1261.4	1368.2	1526.4	1811.1	2281.6	2866.9	7390.6	8861.6	9810.6
47.5°	1016.3	1059.8	1150.7	1257.5	1423.5	1684.5	2143.2	2716.6	7343.1	8885.3	9988.6
50°	933.2	992.5	1051.8	1154.7	1316.8	1526.4	1977.2	2629.6	7422.2	9118.6	10269.3
52.5°	869.9	901.6	964.8	1059.8	1178.4	1380.1	1819.0	2558.4	7639.7	9355.9	10561.9
55°	822.5	858.1	897.6	976.7	1067.7	1233.7	1656.9	2451.7	7892.8	9609.0	10854.6
57.5°	747.4	771.1	826.4	909.5	968.8	1091.4	1467.0	2325.1	7873.0	9411.2	10348.4
60°	*680.1*	*703.9*	*763.2*	*846.2*	*881.8*	*964.8*	*1281.2*	*2163.0*	*7493.4*	*8766.7*	*9415.2*
62.5°	605.0	632.7	703.9	763.2	794.8	858.1	1087.4	1866.4	6702.5	7797.9	8323.8
65°	573.4	589.2	636.6	707.8	703.9	763.2	917.4	1467.0	5393.7	5959.1	6437.6
67.5°	609.0	632.7	624.8	644.6	632.7	664.3	822.5	1178.4	4239.0	4488.1	4764.9
70°	601.1	656.4	684.1	644.6	553.6	589.2	711.8	941.1	3032.9	3009.2	2997.4
72.5°	525.9	581.3	660.4	699.9	541.7	490.3	616.9	814.6	1945.5	1937.6	1751.8
75°	446.8	486.4	581.3	632.7	466.6	395.4	529.9	692.0	1162.6	1178.4	1051.8
77.5°	411.2	391.5	486.4	557.6	379.6	304.5	427.1	522.0	640.6	648.5	601.1
80°	296.6	284.7	363.8	407.3	288.7	217.5	241.2	324.3	344.0	308.4	320.3
82.5°	189.8	193.8	217.5	261.0	177.9	118.6	166.1	217.5	185.9	150.3	177.9
85°	122.6	138.4	114.7	134.4	55.4	55.4	71.2	94.9	63.3	43.5	47.5
87.5°	0.0	0.0	7.9	15.8	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

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

Scaled Data Report

REPORT NUMBER: P1501409
CATALOG NUMBER: GSS-SB4A-730-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7	2791.7
2.5°	2803.6	2799.6	2799.6	2807.6	2827.3	2835.2	2847.1	2843.1	2855.0	2847.1
5°	2859.0	2862.9	2874.8	2878.7	2890.6	2906.4	2910.4	2906.4	2914.3	2914.3
7.5°	2969.7	2985.5	2977.6	2997.4	2981.5	2961.8	2930.1	2906.4	2886.6	2894.5
10°	3155.5	3147.6	3143.7	3108.1	3036.9	2934.1	2851.1	2760.1	2744.3	2728.5
12.5°	3361.2	3353.2	3353.2	3230.7	3029.0	2815.5	2625.7	2483.3	2435.8	2431.9
15°	3649.8	3598.4	3551.0	3293.9	2890.6	2526.8	2305.4	2194.6	2167.0	2167.0
17.5°	4009.7	3875.2	3796.1	3246.5	2665.2	2337.0	2206.5	2178.8	2170.9	2190.7
20°	4456.5	4116.4	4001.8	3139.7	2582.2	2360.7	2297.4	2301.4	2305.4	2333.0
22.5°	4946.8	4337.9	4148.1	3139.7	2665.2	2511.0	2479.3	2522.8	2534.7	2558.4
25°	5492.5	4535.6	4278.6	3305.8	2910.4	2795.7	2756.1	2799.6	2831.3	2870.8
27.5°	6105.4	4741.2	4503.9	3606.3	3226.7	3155.5	3112.0	3131.8	3175.3	3222.8
30°	6655.1	5085.2	4848.0	4065.0	3657.7	3570.7	3495.6	3527.2	3574.7	3606.3
32.5°	7141.5	5504.4	5302.7	4547.4	4152.0	4001.8	3918.7	3910.8	4005.7	3982.0
35°	7588.3	5998.7	5804.9	5097.1	4654.2	4468.4	4357.6	4500.0	4436.7	4460.5
37.5°	7940.2	6512.7	6358.5	5623.0	5176.2	4923.1	4855.9	5029.9	5128.7	5156.4
40°	8228.9	6959.6	6797.4	6145.0	5654.7	5468.8	5575.6	5864.2	5852.4	5840.5
42.5°	8450.3	7343.1	7165.2	6540.4	6113.4	6148.9	6232.0	6425.7	6473.2	6406.0
45°	8549.2	7584.4	7442.0	6852.8	6635.3	6840.9	6876.5	6959.6	6927.9	6884.4
47.5°	8663.9	7797.9	7647.6	7137.5	7200.8	7402.5	7331.3	7264.1	7149.4	7082.2
50°	8857.6	8051.0	7924.4	7552.7	7782.1	7714.8	7438.0	7287.8	7054.5	6975.4
52.5°	9225.4	8529.4	8434.5	8209.1	8054.9	7667.4	7331.3	7062.4	6801.4	6694.6
55°	9553.6	9177.9	9122.6	8822.0	7971.9	7418.3	6967.5	6552.3	6105.4	6014.5
57.5°	9743.4	10253.5	10316.8	9083.0	7592.3	6852.8	6188.5	5524.2	5101.0	5025.9
60°	9177.9	11416.1	11447.7	9031.6	6908.2	5832.6	4820.3	4349.7	3895.0	3764.5
62.5°	8398.9	11174.9	11147.2	8723.2	5500.4	4254.8	3661.7	3440.2	3088.3	2981.5
65°	7220.6	9308.4	9340.1	7536.9	3657.7	3076.4	3076.4	2795.7	2404.2	2329.1
67.5°	5884.0	7177.1	7105.9	4887.5	2246.0	2463.5	2582.2	2178.8	1629.2	1538.2
70°	3823.8	5480.7	5381.8	2819.4	1411.7	2052.3	2032.5	1637.1	1166.5	1103.3
72.5°	1645.0	3167.4	3369.1	1439.4	1063.7	1652.9	1621.3	1146.7	779.0	751.3
75°	992.5	1593.6	1735.9	917.4	775.0	1245.6	1123.0	727.6	529.9	510.1
77.5°	628.7	873.9	866.0	688.0	581.3	842.3	755.3	502.2	359.8	344.0
80°	363.8	431.0	446.8	431.0	391.5	601.1	482.4	363.8	280.8	261.0
82.5°	233.3	268.9	272.8	209.6	217.5	387.5	261.0	213.5	162.1	146.3
85°	102.8	114.7	110.7	71.2	71.2	158.2	90.9	87.0	63.3	63.3
87.5°	4.0	7.9	4.0	4.0	4.0	15.8	7.9	11.9	11.9	11.9
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

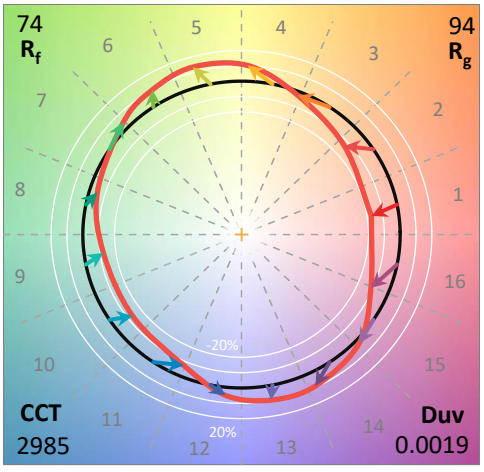
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-4
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-730-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

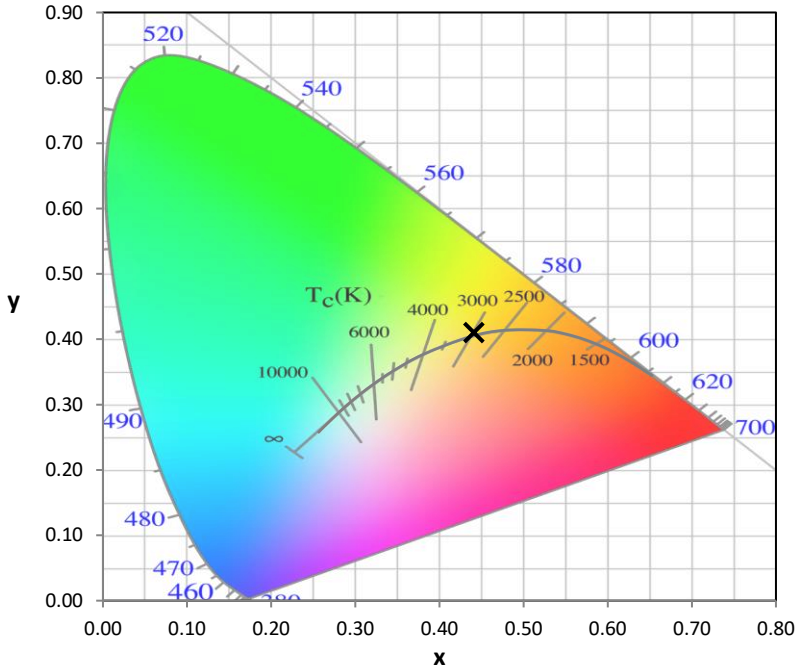
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

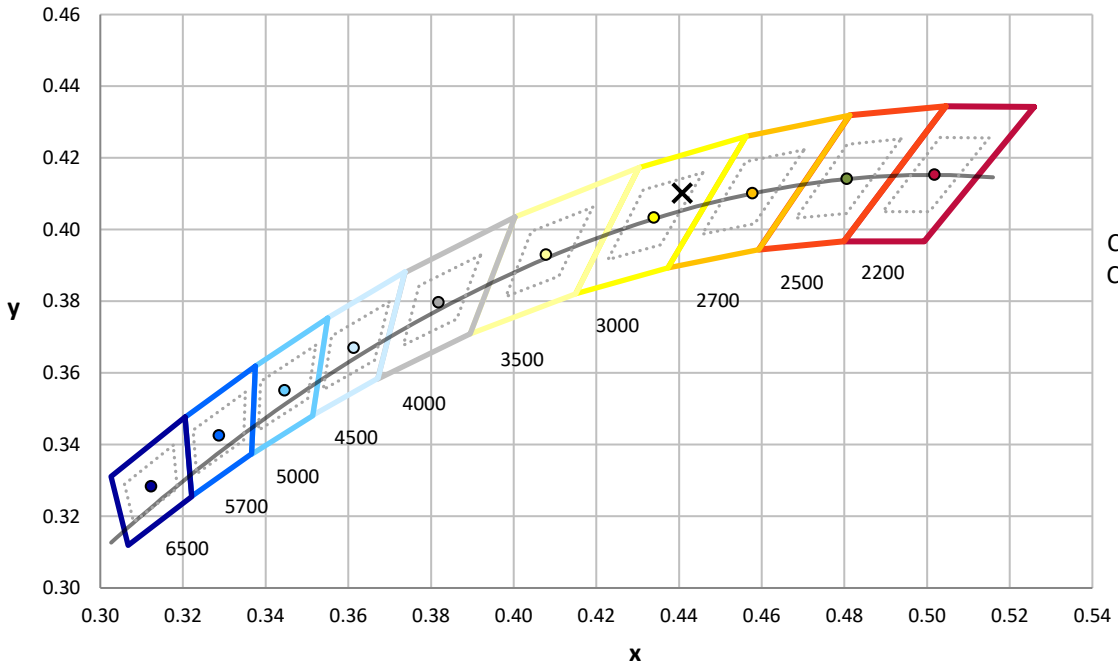
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

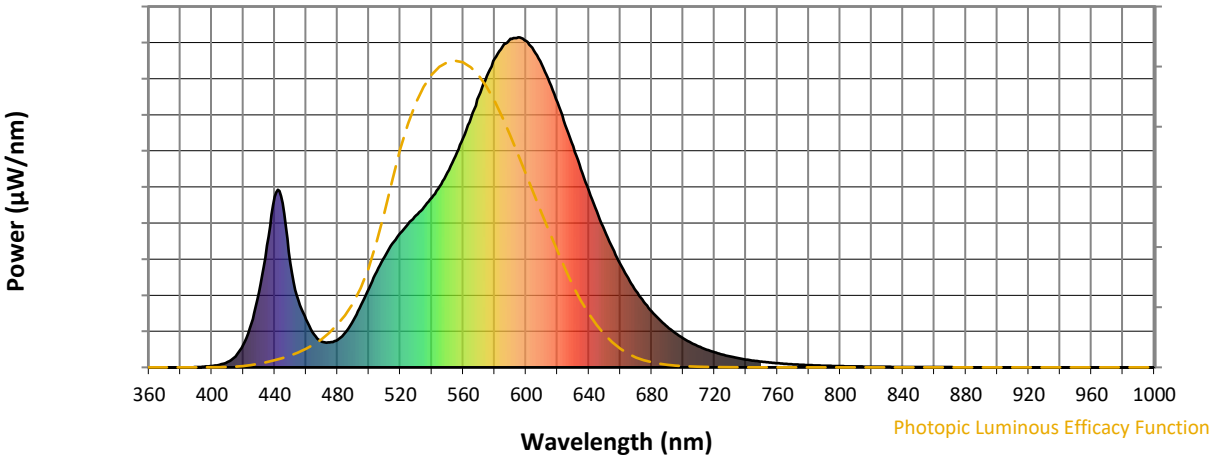


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

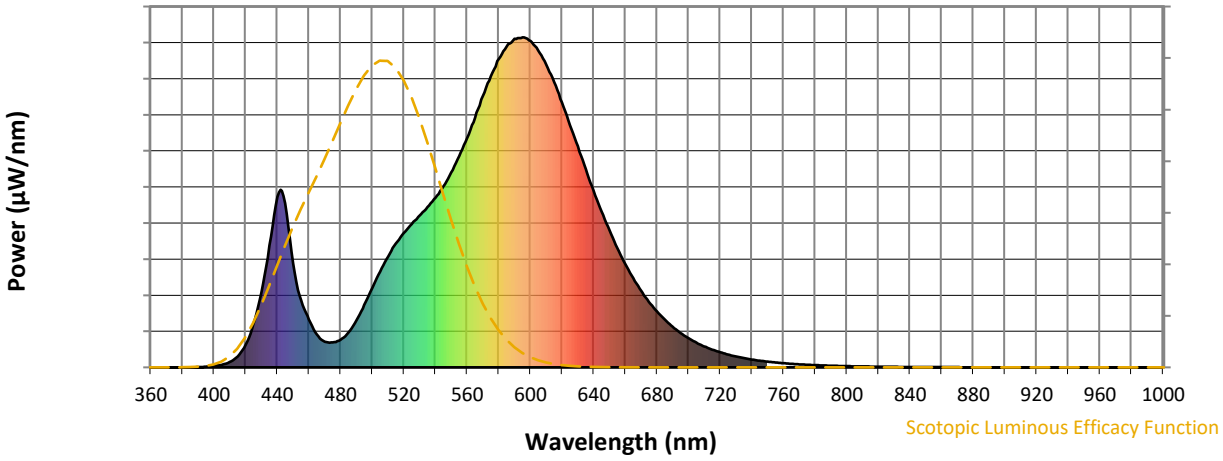


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength

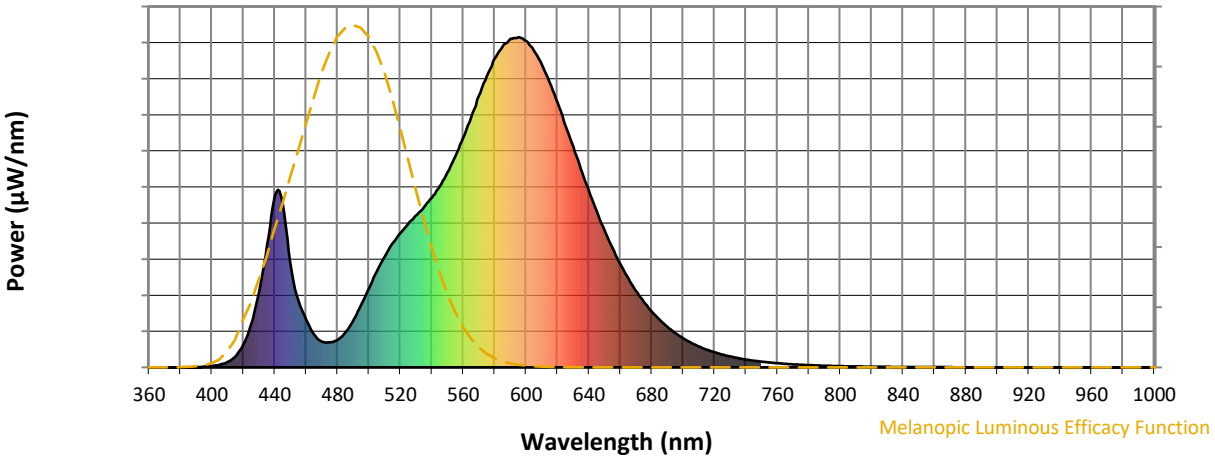


Scotopic Lumens: NR **S/P: 1.19**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

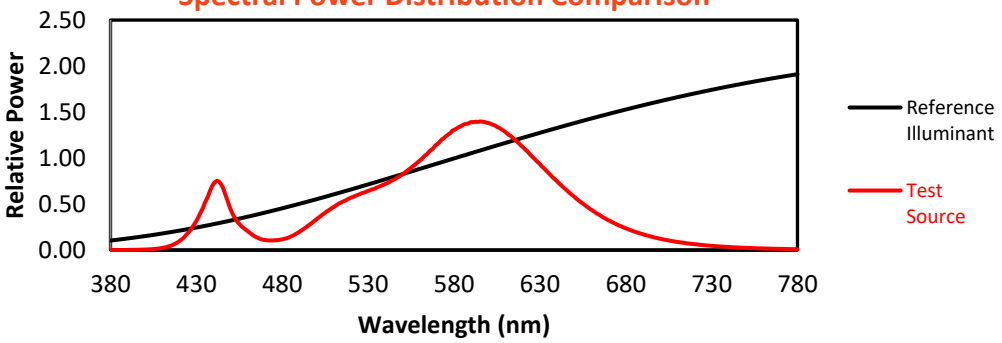
REPORT NUMBER: SP1-2407-184-4

TM-30-18

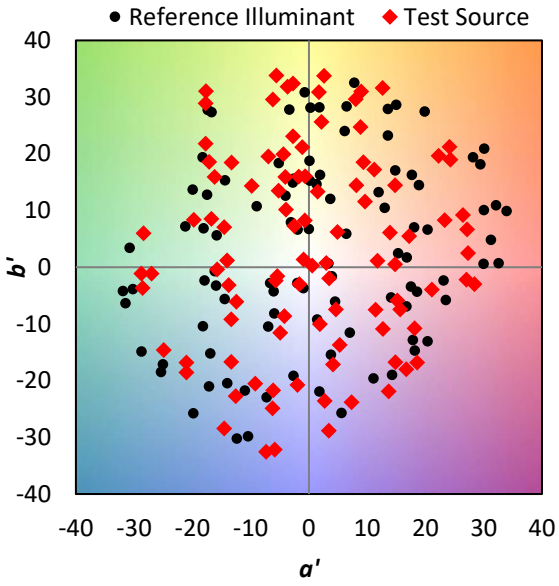
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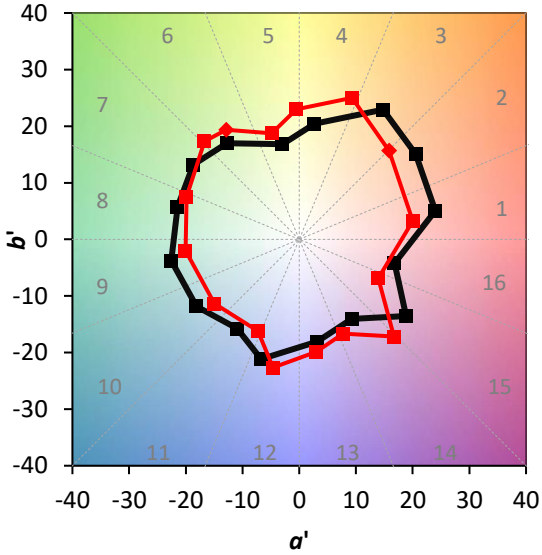
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R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

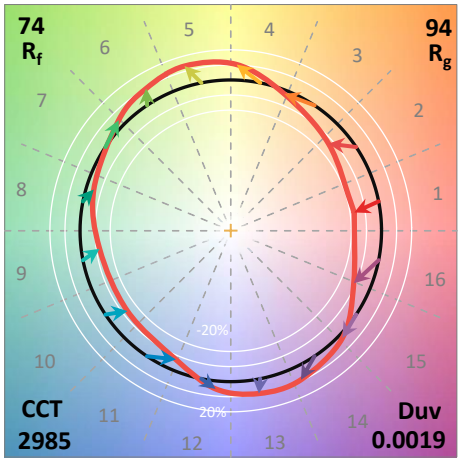
Spectral Power Distribution Comparison

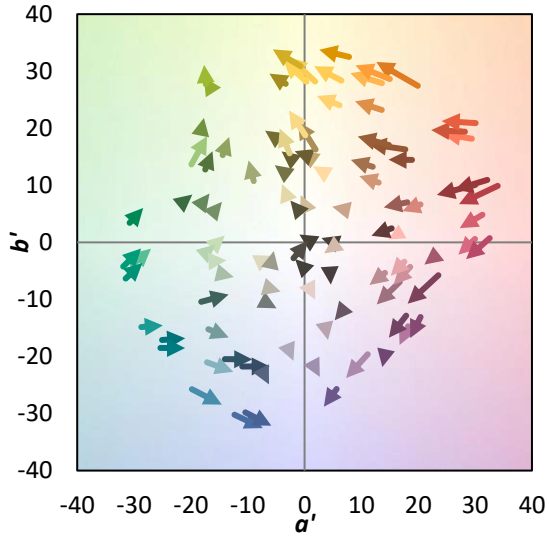


Color Vector Graphics







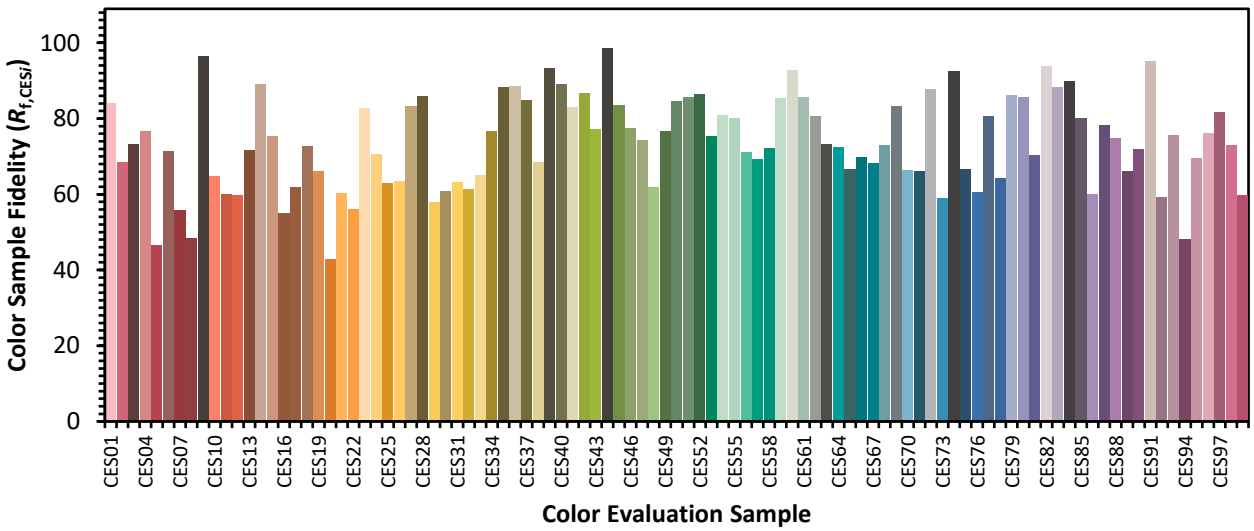


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Individual Sample Fidelity Index ($R_{f,i}$)

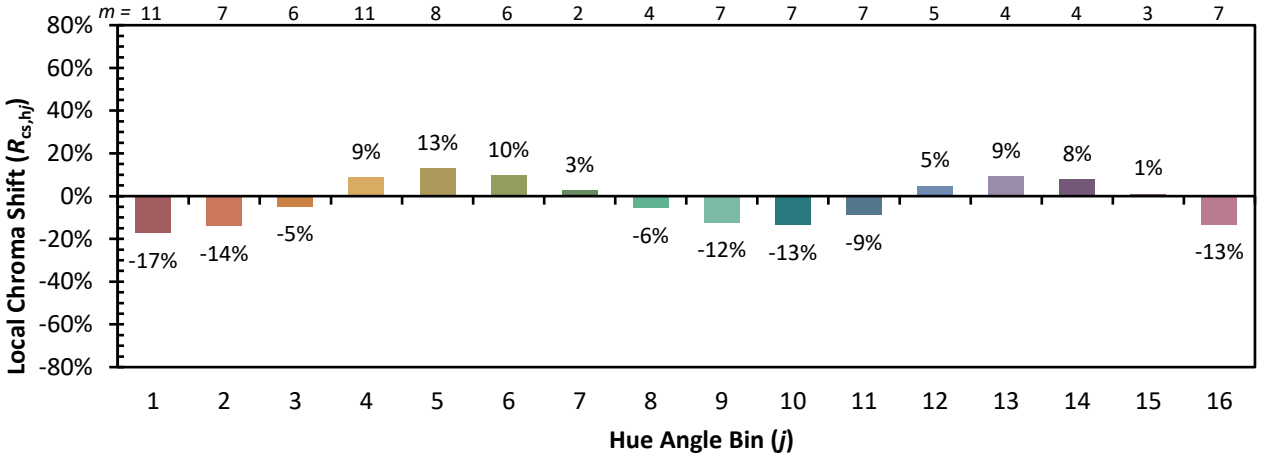
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	

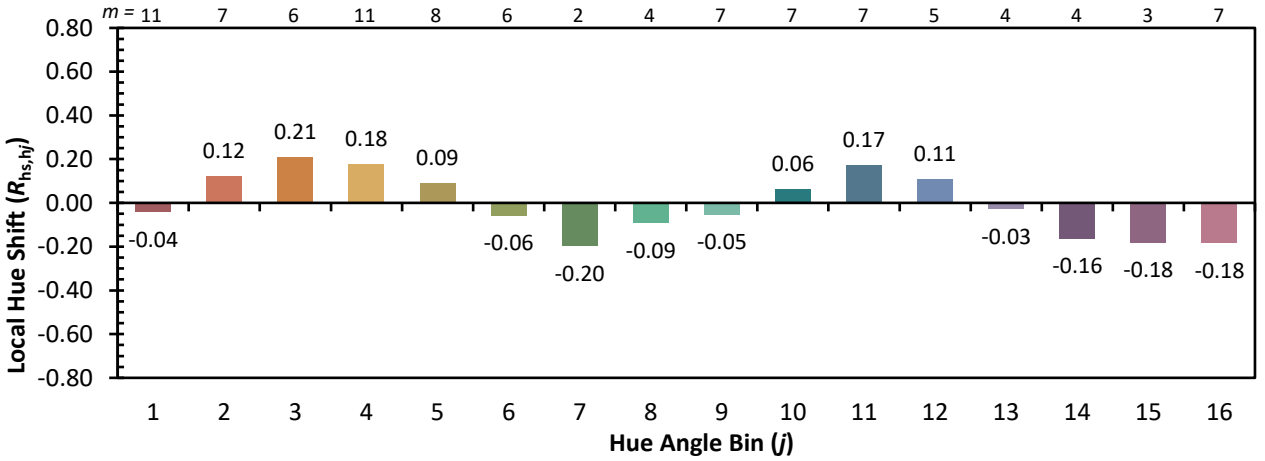


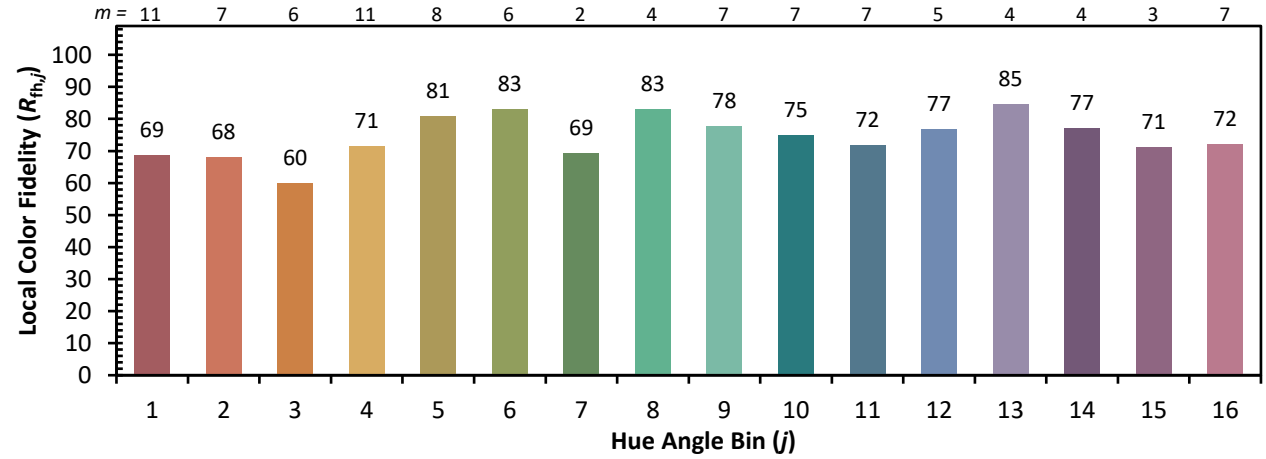
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Color Rendition by Hue-Angle Bin



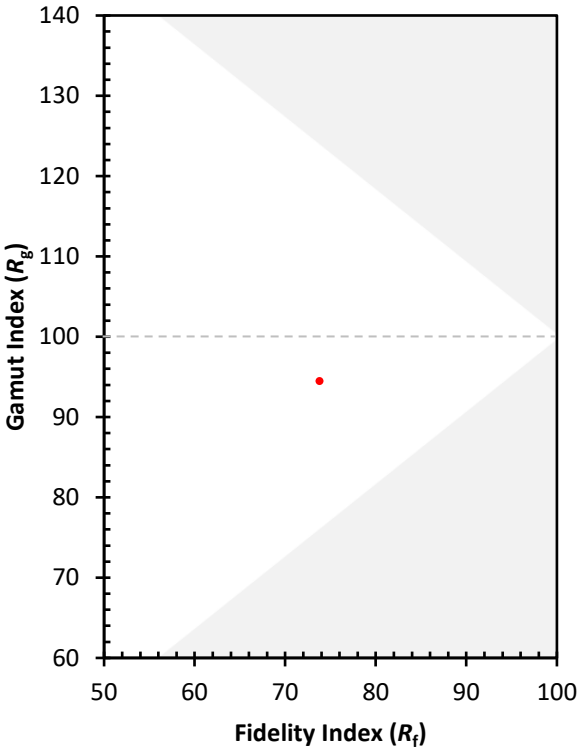


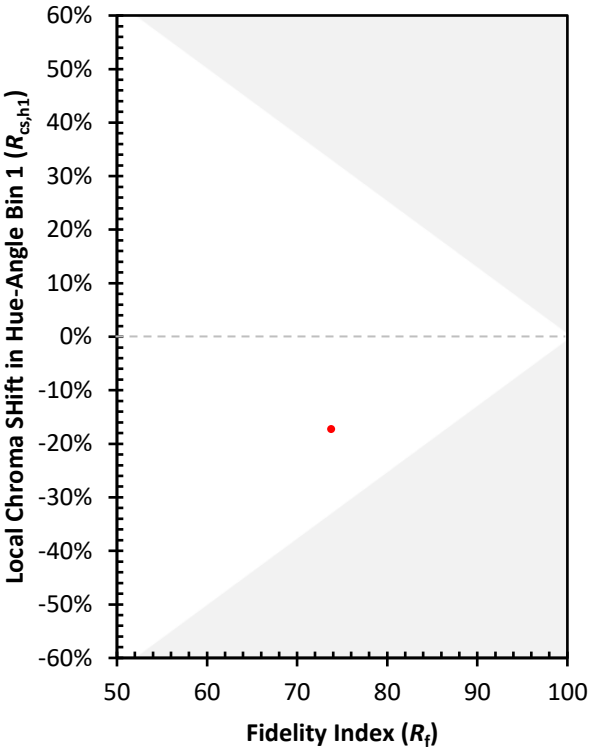


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Measure Comparisons





(END OF REPORT)