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: P1501550

Luminaire Tested: GSS-SB3B-835-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:	P1501550
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3B-835-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 109W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14592.9 lumens
Efficiency:	N/A
Efficacy:	133.9 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

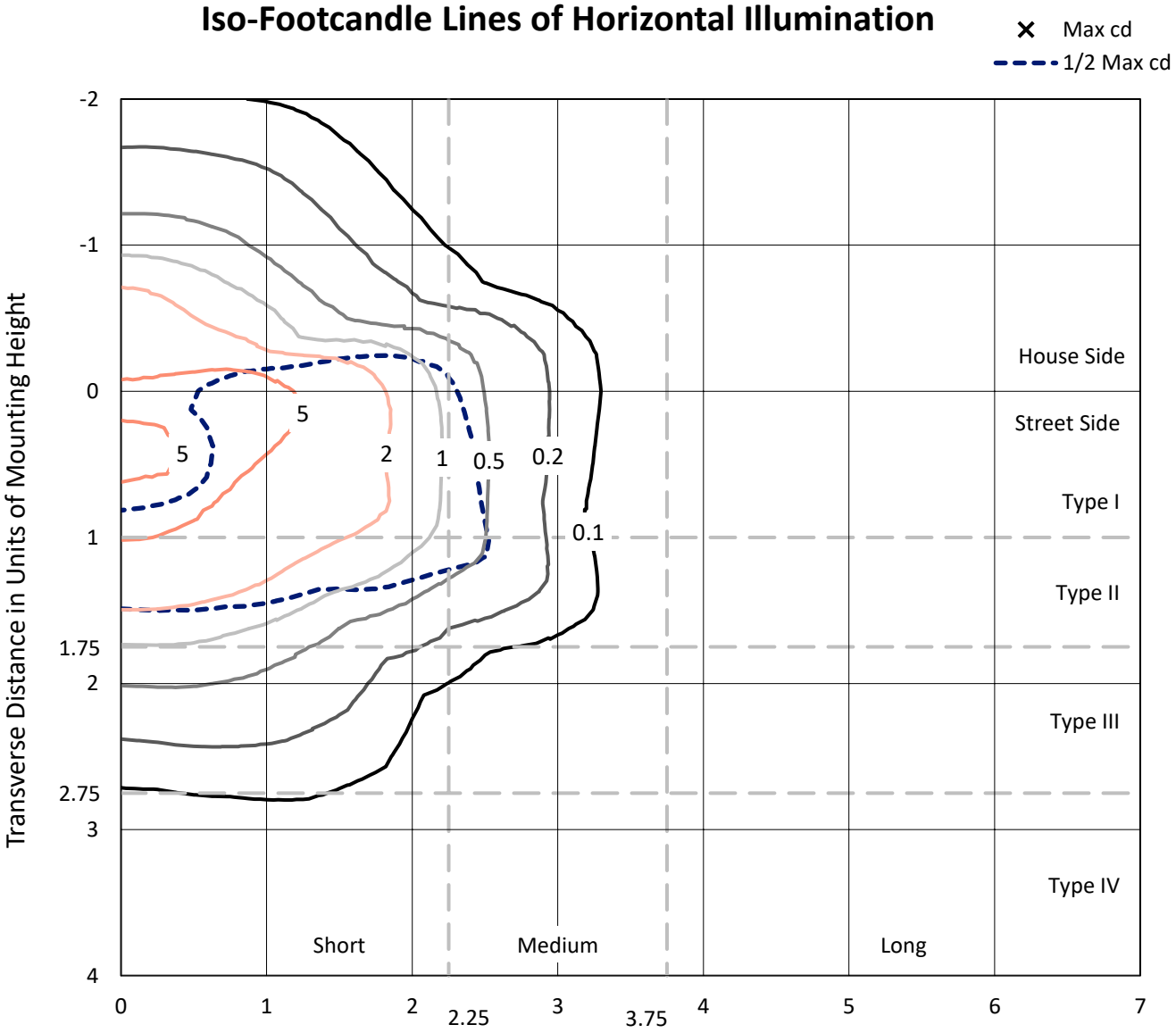
Input Watts (W):	109
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



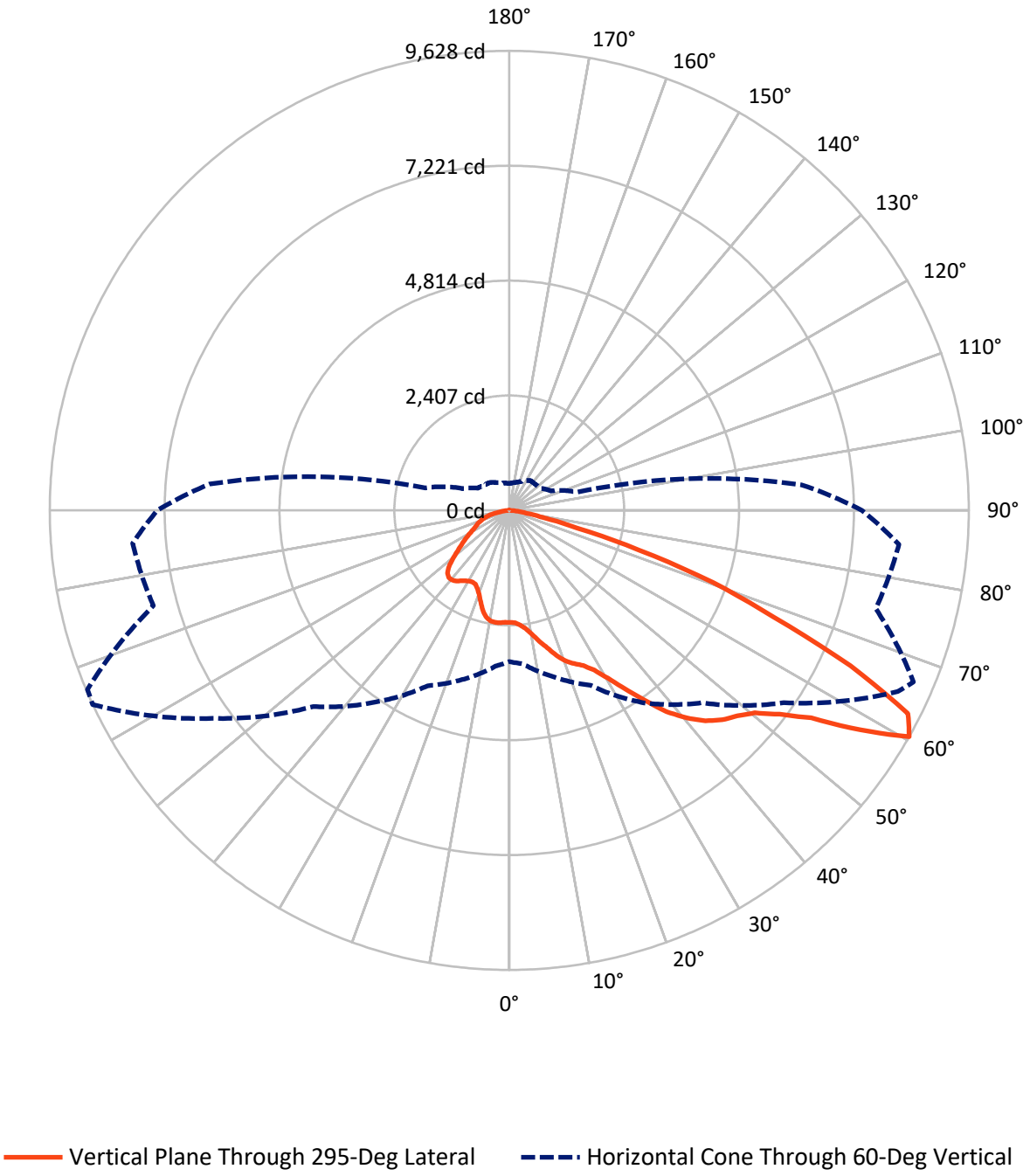
Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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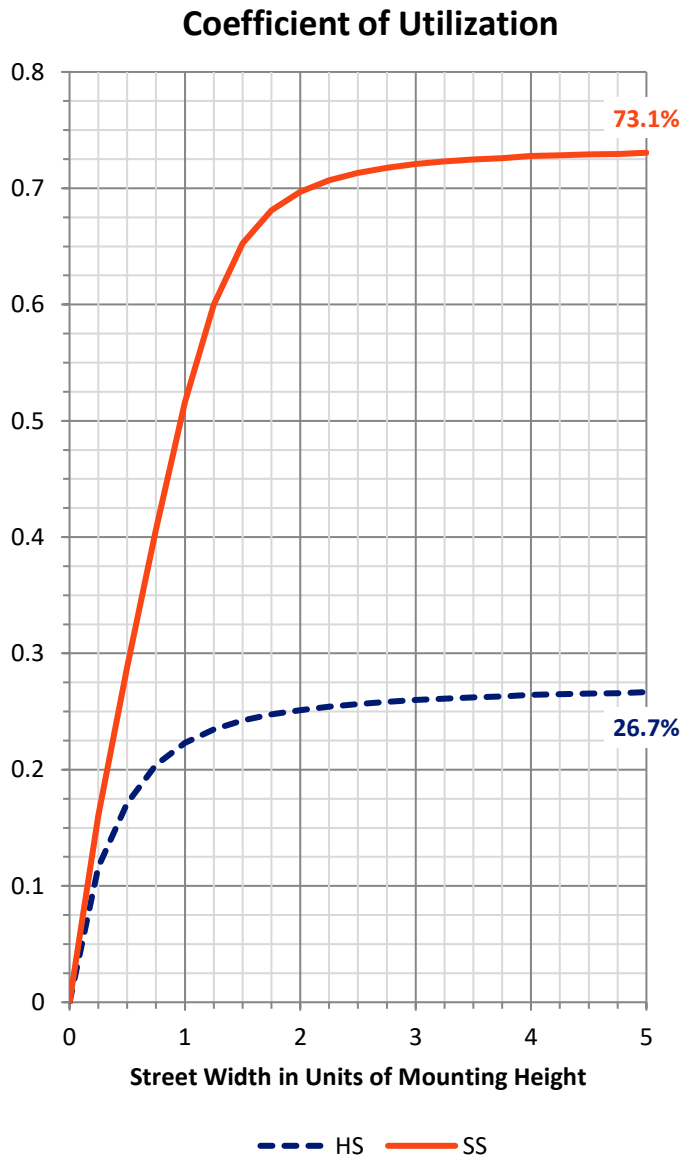
REPORT NUMBER: P1501550
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3924.2	0.0	3924.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10668.7	0.0	10668.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	14592.9	0.0	14592.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	1.5
10°-20°	634.6	4.3
20°-30°	1202.1	8.2
30°-40°	2119.2	14.5
40°-50°	3134.0	21.5
50°-60°	3680.2	25.2
60°-70°	2666.5	18.3
70°-80°	822.3	5.6
80°-90°	113.2	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°	14592.9	100.0
0°-180°	14592.9	100.0



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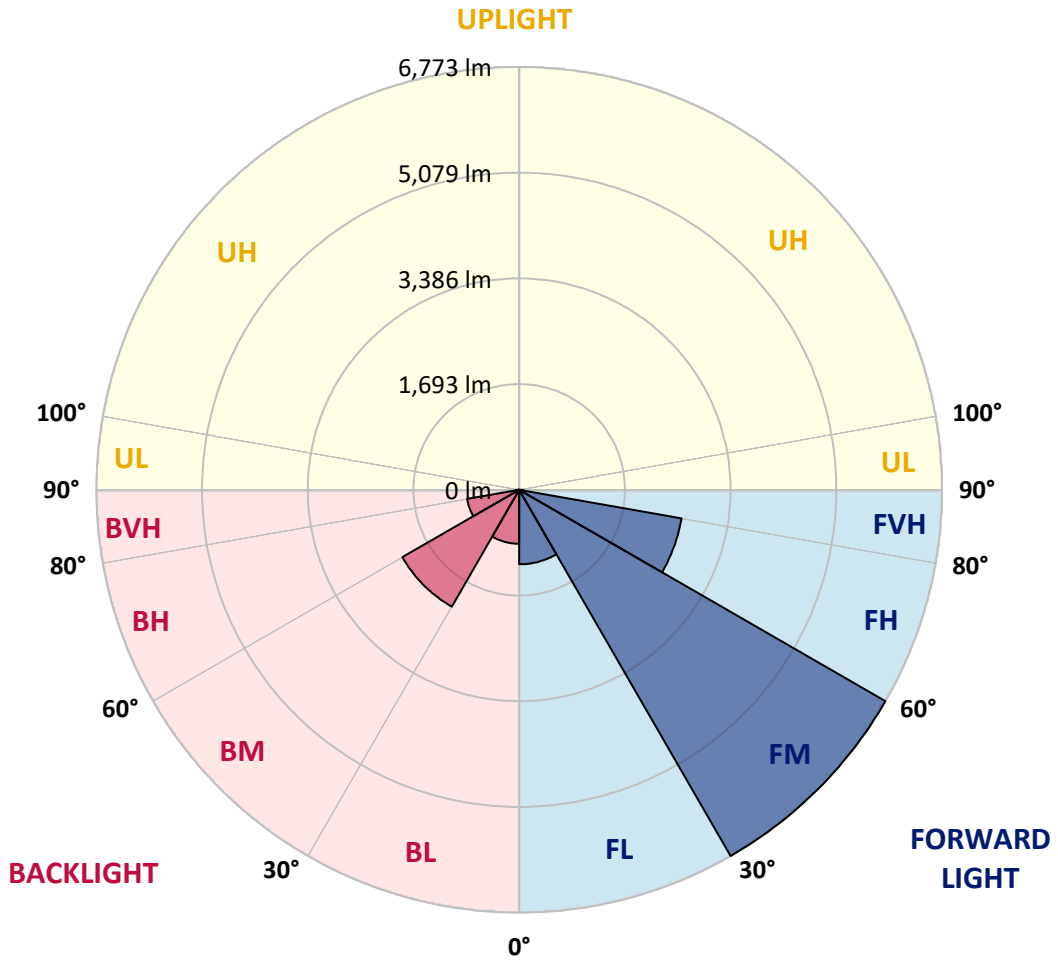
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1193.2	8.2			
FM	(30°-60°)	6772.7	46.4			
FH	(60°-80°)	2641.8	18.1			G2/5000
FVH	(80°-90°)	61.1	0.4			G1/100
BL	(0°-30°)	864.2	5.9	B2/1000		
BM	(30°-60°)	2160.8	14.8	B2/2500		
BH	(60°-80°)	847.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	52.1	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°	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9
2.5°	2394.5	2401.1	2391.2	2397.8	2397.8	2387.8	2384.5	2371.2	2377.9	2374.5	2371.2
5°	2451.0	2454.4	2447.7	2457.7	2457.7	2461.0	2457.7	2441.1	2441.1	2441.1	2434.4
7.5°	2434.4	2434.4	2437.7	2471.0	2504.2	2547.5	2547.5	2540.8	2547.5	2544.1	2514.2
10°	2294.7	2308.0	2338.0	2421.1	2500.9	2594.0	2657.2	2677.2	2677.2	2680.5	2630.6
12.5°	2045.3	2055.3	2125.1	2251.5	2417.8	2587.4	2740.4	2840.1	2850.1	2866.7	2800.2
15°	1822.5	1829.1	1879.0	2008.7	2198.3	2497.6	2786.9	2993.1	3026.4	3096.2	2996.4
17.5°	1842.4	1839.1	1852.4	1902.3	2038.6	2351.3	2776.9	3172.7	3232.6	3355.6	3269.1
20°	1962.2	1962.2	1972.1	1982.1	2032.0	2244.8	2703.8	3319.0	3435.4	3674.9	3575.1
22.5°	2151.7	2151.7	2148.4	2165.0	2165.0	2291.4	2707.1	3428.8	3601.7	4030.7	3934.3
25°	2414.4	2401.1	2401.1	2407.8	2377.9	2467.7	2790.2	3541.9	3768.0	4453.1	4369.9
27.5°	2710.4	2720.4	2713.8	2690.5	2650.6	2720.4	2989.8	3718.1	3954.2	4898.7	4865.5
30°	3033.0	3036.3	3043.0	3029.7	2996.4	3046.3	3302.4	3984.2	4200.3	5364.3	5437.5
32.5°	3349.0	3395.5	3378.9	3345.6	3358.9	3448.7	3688.2	4343.3	4566.2	5796.7	6056.1
35°	3751.4	3768.0	3834.5	3711.5	3714.8	3867.8	4180.4	4815.6	5031.8	6245.6	6674.6
37.5°	4336.7	4366.6	4336.7	4143.8	4113.9	4326.7	4659.3	5281.2	5437.5	6584.8	7250.0
40°	4912.0	4948.6	4998.5	4772.4	4582.8	4759.1	5111.6	5637.0	5800.0	6771.1	7632.4
42.5°	5387.6	5447.5	5394.3	5327.7	5154.8	5188.1	5427.5	5913.1	6076.0	7007.2	8018.2
45°	5790.0	5800.0	5823.3	5776.7	5690.2	5660.3	5696.9	6155.8	6335.4	7113.6	8207.8
47.5°	5956.3	5999.5	6019.5	6099.3	6189.1	6129.2	5926.4	6268.9	6431.9	7107.0	8267.6
50°	5866.5	5909.7	6016.2	6205.7	6421.9	6528.3	6195.7	6425.2	6608.1	7226.7	8390.7
52.5°	5630.4	5676.9	5849.9	6066.0	6428.5	6671.3	6574.9	6751.1	6927.4	7439.6	8596.9
55°	5058.4	5128.2	5371.0	5730.1	6229.0	6594.8	6974.0	7230.0	7422.9	7695.6	8809.7
57.5°	4226.9	4300.1	4572.8	5111.6	5859.9	6278.9	7090.4	8128.0	8214.4	8001.6	8829.7
60°	*3166.0*	*3225.9*	*3611.7*	*4044.0*	*4922.0*	*5700.2*	*7023.8*	*8979.3*	*9198.8*	*7948.4*	*8194.5*
62.5°	2507.6	2580.7	2923.3	3122.8	3751.4	4709.2	6791.0	9215.5	9405.0	7509.4	7309.8
65°	1958.8	2008.7	2328.0	2614.0	2767.0	3215.9	5819.9	8061.5	8231.1	6794.4	6032.8
67.5°	1293.7	1370.2	1749.3	2141.7	2221.6	2045.3	4004.1	6202.4	6282.2	5400.9	4536.2
70°	927.9	964.4	1247.1	1666.2	1785.9	1370.2	2181.6	4695.9	4719.1	3625.0	3056.3
72.5°	631.9	638.5	848.0	1277.1	1423.4	994.4	1200.6	3092.9	3013.1	1789.2	1749.3
75°	429.0	435.7	542.1	851.4	1007.7	691.7	781.5	1686.1	1619.6	987.7	1060.9
77.5°	289.3	296.0	372.5	572.0	671.8	478.9	572.0	891.3	874.7	655.2	568.7
80°	219.5	229.5	276.0	365.8	468.9	279.4	325.9	422.4	429.0	349.2	289.3
82.5°	123.1	136.4	166.3	186.2	302.6	156.3	156.3	252.8	242.8	216.2	156.3
85°	53.2	56.5	66.5	69.8	123.1	66.5	56.5	109.7	113.1	106.4	49.9
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	13.3	13.3	13.3
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°	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9
2.5°	2354.6	2374.5	2354.6	2344.6	2344.6	2328.0	2321.3	2321.3	2298.0	2308.0	2301.4
5°	2407.8	2414.4	2391.2	2361.2	2321.3	2288.1	2241.5	2181.6	2145.1	2141.7	2145.1
7.5°	2490.9	2494.3	2431.1	2364.6	2264.8	2145.1	2002.1	1885.7	1782.6	1765.9	1785.9
10°	2607.3	2600.7	2507.6	2351.3	2141.7	1889.0	1669.5	1563.1	1503.2	1499.9	1496.6
12.5°	2763.6	2720.4	2577.4	2294.7	1928.9	1636.2	1523.2	1516.5	1533.1	1546.4	1549.8
15°	2943.2	2886.7	2633.9	2185.0	1712.7	1543.1	1549.8	1606.3	1626.3	1639.6	1639.6
17.5°	3166.0	3092.9	2697.1	2028.7	1603.0	1563.1	1609.6	1662.8	1696.1	1709.4	1706.1
20°	3462.0	3309.1	2747.0	1879.0	1573.0	1596.3	1636.2	1689.4	1722.7	1739.3	1739.3
22.5°	3758.0	3568.5	2757.0	1775.9	1573.0	1599.7	1636.2	1689.4	1726.0	1742.7	1739.3
25°	4160.4	3901.0	2760.3	1702.7	1576.4	1583.0	1616.3	1662.8	1716.1	1732.7	1739.3
27.5°	4589.4	4266.8	2776.9	1686.1	1563.1	1559.7	1583.0	1626.3	1679.5	1722.7	1726.0
30°	5121.5	4679.2	2783.6	1702.7	1566.4	1523.2	1539.8	1583.0	1639.6	1682.8	1696.1
32.5°	5643.7	5061.7	2770.3	1739.3	1573.0	1499.9	1503.2	1529.8	1589.7	1619.6	1642.9
35°	6195.7	5467.4	2747.0	1789.2	1576.4	1489.9	1460.0	1473.3	1513.2	1516.5	1526.5
37.5°	6628.1	5770.1	2677.2	1855.7	1583.0	1453.3	1393.5	1383.5	1366.9	1333.6	1340.2
40°	6983.9	5972.9	2560.8	1889.0	1566.4	1410.1	1310.3	1263.8	1200.6	1150.7	1160.7
42.5°	7240.0	6109.3	2421.1	1895.6	1539.8	1336.9	1213.9	1134.1	1064.2	1011.0	1014.3
45°	7353.1	6096.0	2271.4	1845.8	1476.6	1247.1	1124.1	1047.6	971.1	914.6	907.9
47.5°	7356.4	5966.3	2065.2	1726.0	1370.2	1144.0	1040.9	957.8	894.6	854.7	851.4
50°	7383.0	5893.1	1872.4	1553.1	1230.5	1034.3	967.8	884.6	848.0	791.5	774.9
52.5°	7549.3	6012.8	1739.3	1363.5	1100.8	954.5	904.6	831.4	771.6	735.0	731.6
55°	7818.7	6219.0	1666.2	1220.5	977.8	878.0	844.7	781.5	728.3	691.7	681.8
57.5°	7851.9	6325.4	1579.7	1087.5	878.0	818.1	804.8	735.0	658.5	631.9	621.9
60°	*7386.3*	*6145.9*	*1473.3*	*964.4*	*804.8*	*771.6*	*764.9*	*671.8*	*608.6*	*575.3*	*562.0*
62.5°	6751.1	5696.9	1310.3	851.4	748.3	725.0	698.4	625.2	545.4	508.8	498.9
65°	5517.3	4789.0	1114.1	774.9	691.7	665.1	658.5	558.7	505.5	485.5	482.2
67.5°	4180.4	3847.8	981.1	718.3	631.9	621.9	598.6	565.4	542.1	518.8	512.2
70°	2956.5	2776.9	834.7	645.2	572.0	555.4	651.8	615.3	532.1	502.2	498.9
72.5°	1792.5	1742.7	721.7	578.7	492.2	518.8	601.9	555.4	478.9	442.3	429.0
75°	1130.7	1034.3	605.3	492.2	392.4	422.4	525.5	495.5	412.4	375.8	365.8
77.5°	615.3	572.0	455.6	402.4	309.3	342.5	458.9	409.1	329.2	359.2	319.3
80°	269.4	299.3	302.6	232.8	206.2	252.8	329.2	319.3	252.8	256.1	212.8
82.5°	129.7	169.6	196.2	159.6	116.4	149.7	219.5	182.9	169.6	159.6	153.0
85°	39.9	63.2	86.5	76.5	53.2	63.2	103.1	99.8	119.7	103.1	96.4
87.5°	13.3	13.3	10.0	10.0	10.0	13.3	16.6	10.0	3.3	3.3	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°	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9
2.5°	2298.0	2301.4	2301.4	2304.7	2304.7	2314.7	2328.0	2341.3	2331.3	2344.6	2347.9
5°	2138.4	2155.0	2168.3	2218.2	2258.1	2291.4	2328.0	2361.2	2371.2	2377.9	2394.5
7.5°	1762.6	1809.2	1895.6	2008.7	2135.1	2258.1	2341.3	2427.7	2441.1	2457.7	2481.0
10°	1499.9	1519.8	1579.7	1696.1	1922.2	2165.0	2367.9	2504.2	2560.8	2594.0	2617.3
12.5°	1543.1	1529.8	1519.8	1536.5	1682.8	1995.4	2351.3	2614.0	2720.4	2757.0	2786.9
15°	1646.2	1632.9	1596.3	1549.8	1566.4	1815.8	2294.7	2717.1	2886.7	2946.6	3009.7
17.5°	1706.1	1692.8	1662.8	1613.0	1569.7	1666.2	2188.3	2810.2	3149.4	3222.6	3312.4
20°	1739.3	1726.0	1696.1	1646.2	1596.3	1609.6	2051.9	2926.6	3448.7	3565.1	3698.2
22.5°	1746.0	1729.4	1696.1	1646.2	1616.3	1606.3	1922.2	2996.4	3771.3	3950.9	4103.9
25°	1742.7	1712.7	1669.5	1632.9	1616.3	1613.0	1832.5	3036.3	4120.5	4406.5	4579.5
27.5°	1719.4	1682.8	1639.6	1613.0	1606.3	1626.3	1792.5	3082.9	4529.6	4895.4	5171.4
30°	1692.8	1639.6	1586.4	1576.4	1593.0	1656.2	1825.8	3099.5	4958.6	5427.5	5710.2
32.5°	1622.9	1583.0	1529.8	1526.5	1566.4	1679.5	1902.3	3076.3	5337.7	5959.6	6315.5
35°	1523.2	1499.9	1470.0	1479.9	1543.1	1699.4	1955.5	3003.1	5683.6	6455.1	6870.9
37.5°	1346.9	1363.5	1380.2	1403.4	1483.3	1696.1	1978.8	2886.7	5969.6	6850.9	7383.0
40°	1150.7	1207.2	1260.4	1320.3	1426.7	1669.5	1985.4	2743.7	6135.9	7150.2	7838.6
42.5°	1027.6	1080.8	1147.4	1233.8	1350.2	1609.6	1978.8	2584.1	6189.1	7356.4	8128.0
45°	914.6	977.8	1060.9	1150.7	1283.7	1523.2	1918.9	2411.1	6215.7	7452.9	8251.0
47.5°	854.7	891.3	967.8	1057.6	1197.2	1416.7	1802.5	2284.7	6175.8	7472.8	8400.7
50°	784.9	834.7	884.6	971.1	1107.5	1283.7	1662.8	2211.6	6242.3	7669.0	8636.8
52.5°	731.6	758.3	811.5	891.3	991.1	1160.7	1529.8	2151.7	6425.2	7868.6	8882.9
55°	691.7	721.7	754.9	821.4	897.9	1037.6	1393.5	2061.9	6638.1	8081.4	9129.0
57.5°	628.6	648.5	695.1	764.9	814.8	917.9	1233.8	1955.5	6621.4	7915.1	8703.3
60°	*572.0*	*592.0*	*641.9*	*711.7*	*741.6*	*811.5*	*1077.5*	*1819.1*	*6302.2*	*7373.0*	*7918.4*
62.5°	508.8	532.1	592.0	641.9	668.5	721.7	914.6	1569.7	5637.0	6558.2	7000.6
65°	482.2	495.5	535.4	595.3	592.0	641.9	771.6	1233.8	4536.2	5011.8	5414.2
67.5°	512.2	532.1	525.5	542.1	532.1	558.7	691.7	991.1	3565.1	3774.6	4007.4
70°	505.5	552.1	575.3	542.1	465.6	495.5	598.6	791.5	2550.8	2530.8	2520.9
72.5°	442.3	488.9	555.4	588.6	455.6	412.4	518.8	685.1	1636.2	1629.6	1473.3
75°	375.8	409.1	488.9	532.1	392.4	332.6	445.6	582.0	977.8	991.1	884.6
77.5°	345.9	329.2	409.1	468.9	319.3	256.1	359.2	439.0	538.8	545.4	505.5
80°	249.4	239.4	306.0	342.5	242.8	182.9	202.9	272.7	289.3	259.4	269.4
82.5°	159.6	163.0	182.9	219.5	149.7	99.8	139.7	182.9	156.3	126.4	149.7
85°	103.1	116.4	96.4	113.1	46.6	46.6	59.9	79.8	53.2	36.6	39.9
87.5°	0.0	0.0	6.7	13.3	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

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

Scaled Data Report

REPORT NUMBER: P1501550
CATALOG NUMBER: GSS-SB3B-835-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9	2347.9
2.5°	2357.9	2354.6	2354.6	2361.2	2377.9	2384.5	2394.5	2391.2	2401.1	2394.5
5°	2404.5	2407.8	2417.8	2421.1	2431.1	2444.4	2447.7	2444.4	2451.0	2451.0
7.5°	2497.6	2510.9	2504.2	2520.9	2507.6	2490.9	2464.3	2444.4	2427.7	2434.4
10°	2653.9	2647.2	2643.9	2614.0	2554.1	2467.7	2397.8	2321.3	2308.0	2294.7
12.5°	2826.8	2820.2	2820.2	2717.1	2547.5	2367.9	2208.3	2088.5	2048.6	2045.3
15°	3069.6	3026.4	2986.5	2770.3	2431.1	2125.1	1938.9	1845.8	1822.5	1822.5
17.5°	3372.2	3259.2	3192.7	2730.4	2241.5	1965.5	1855.7	1832.5	1825.8	1842.4
20°	3748.0	3462.0	3365.6	2640.6	2171.7	1985.4	1932.2	1935.5	1938.9	1962.2
22.5°	4160.4	3648.3	3488.6	2640.6	2241.5	2111.8	2085.2	2121.8	2131.8	2151.7
25°	4619.4	3814.6	3598.4	2780.3	2447.7	2351.3	2318.0	2354.6	2381.2	2414.4
27.5°	5134.9	3987.5	3788.0	3033.0	2713.8	2653.9	2617.3	2633.9	2670.5	2710.4
30°	5597.1	4276.8	4077.3	3418.8	3076.3	3003.1	2939.9	2966.5	3006.4	3033.0
32.5°	6006.2	4629.3	4459.7	3824.5	3492.0	3365.6	3295.8	3289.1	3368.9	3349.0
35°	6382.0	5045.1	4882.1	4286.8	3914.3	3758.0	3664.9	3784.6	3731.4	3751.4
37.5°	6678.0	5477.4	5347.7	4729.1	4353.3	4140.5	4083.9	4230.3	4313.4	4336.7
40°	6920.7	5853.2	5716.8	5168.1	4755.7	4599.4	4689.2	4932.0	4922.0	4912.0
42.5°	7107.0	6175.8	6026.1	5500.7	5141.5	5171.4	5241.3	5404.2	5444.1	5387.6
45°	7190.1	6378.7	6258.9	5763.4	5580.5	5753.4	5783.4	5853.2	5826.6	5790.0
47.5°	7286.6	6558.2	6431.9	6002.9	6056.1	6225.7	6165.8	6109.3	6012.8	5956.3
50°	7449.5	6771.1	6664.7	6352.1	6544.9	6488.4	6255.6	6129.2	5933.0	5866.5
52.5°	7758.8	7173.5	7093.7	6904.1	6774.4	6448.5	6165.8	5939.7	5720.2	5630.4
55°	8034.8	7718.9	7672.3	7419.6	6704.6	6239.0	5859.9	5510.7	5134.9	5058.4
57.5°	8194.5	8623.5	8676.7	7639.1	6385.3	5763.4	5204.7	4646.0	4290.1	4226.9
60°	7718.9	9601.2	9627.8	7595.9	5810.0	4905.4	4054.0	3658.2	3275.8	3166.0
62.5°	7063.7	9398.4	9375.1	7336.5	4626.0	3578.4	3079.6	2893.3	2597.4	2507.6
65°	6072.7	7828.7	7855.3	6338.7	3076.3	2587.4	2587.4	2351.3	2022.0	1958.8
67.5°	4948.6	6036.1	5976.3	4110.5	1889.0	2071.9	2171.7	1832.5	1370.2	1293.7
70°	3215.9	4609.4	4526.3	2371.2	1187.3	1726.0	1709.4	1376.8	981.1	927.9
72.5°	1383.5	2663.9	2833.5	1210.5	894.6	1390.1	1363.5	964.4	655.2	631.9
75°	834.7	1340.2	1460.0	771.6	651.8	1047.6	944.5	611.9	445.6	429.0
77.5°	528.8	735.0	728.3	578.7	488.9	708.4	635.2	422.4	302.6	289.3
80°	306.0	362.5	375.8	362.5	329.2	505.5	405.7	306.0	236.1	219.5
82.5°	196.2	226.1	229.5	176.3	182.9	325.9	219.5	179.6	136.4	123.1
85°	86.5	96.4	93.1	59.9	59.9	133.0	76.5	73.2	53.2	53.2
87.5°	3.3	6.7	3.3	3.3	3.3	13.3	6.7	10.0	10.0	10.0
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

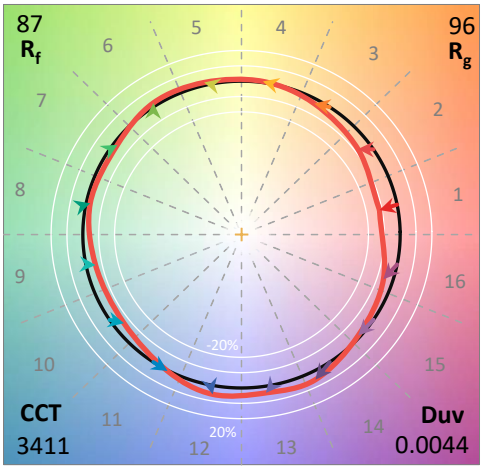
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
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-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

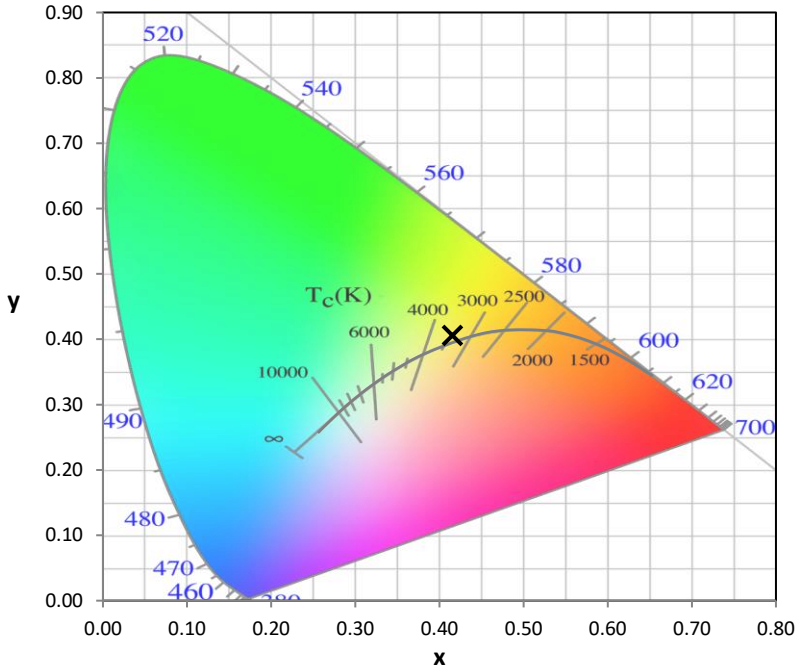
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

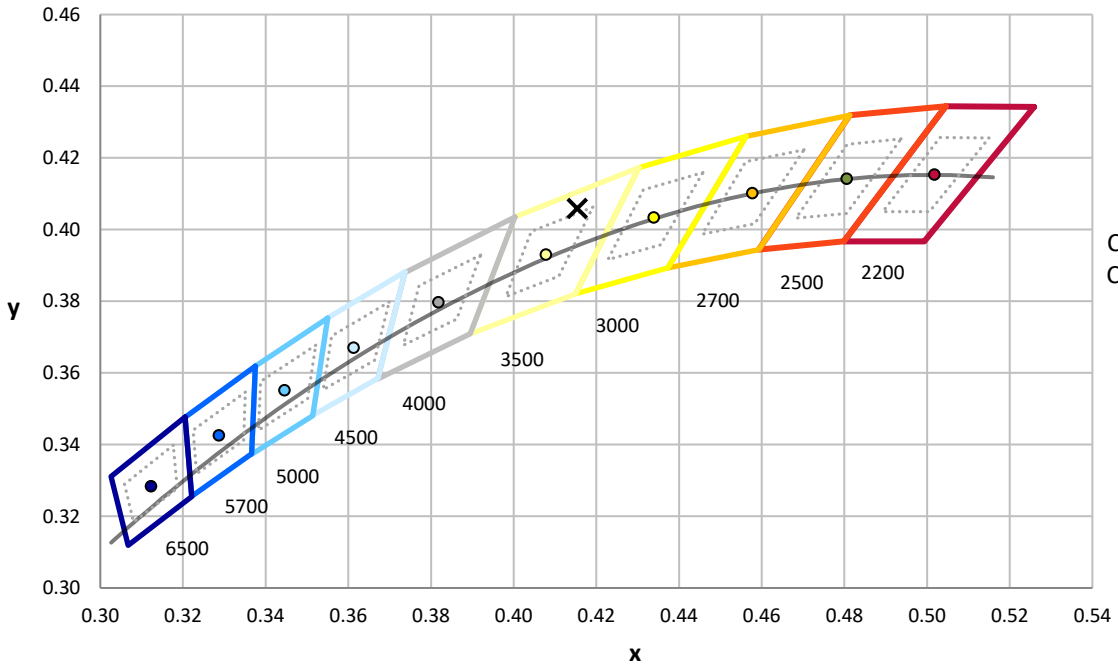
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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

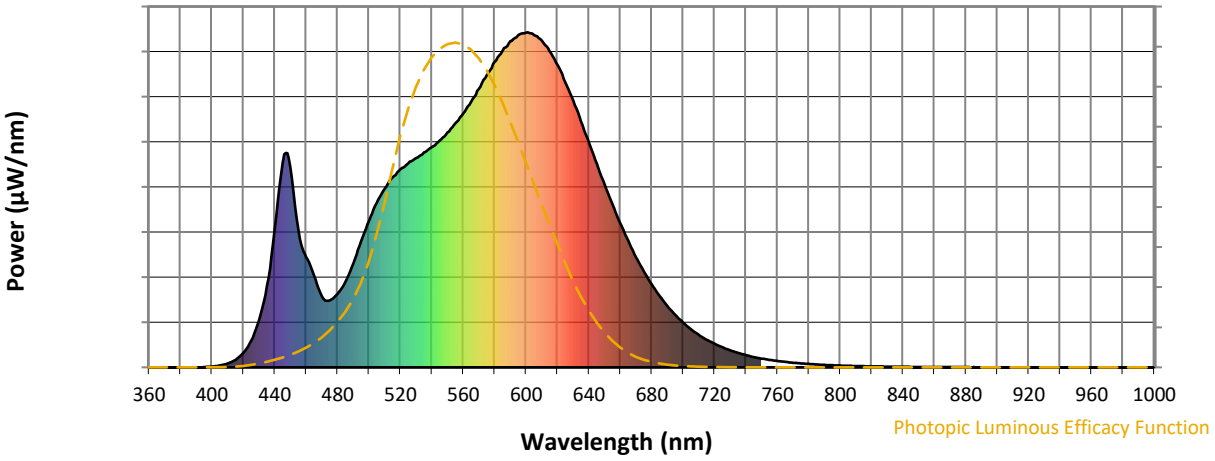


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

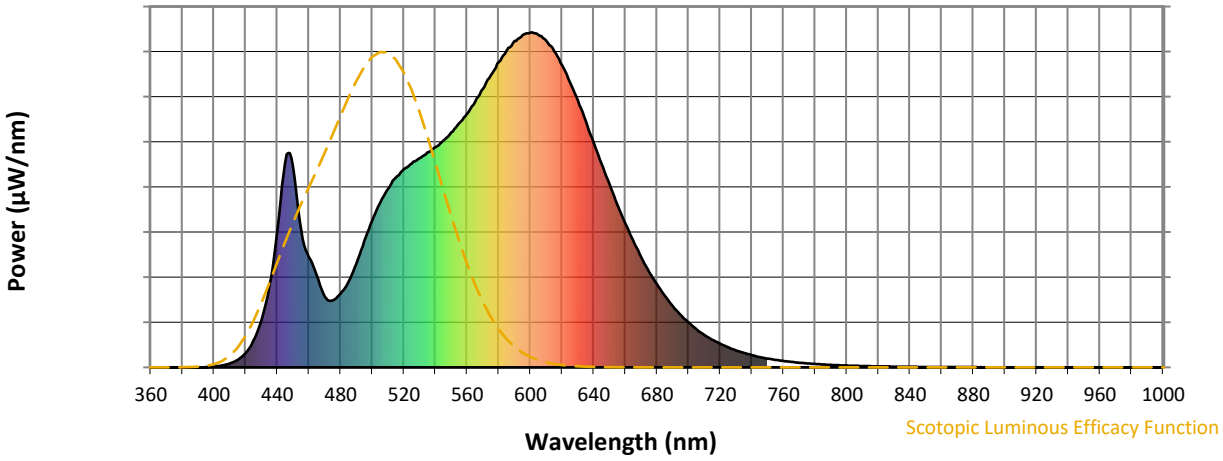


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

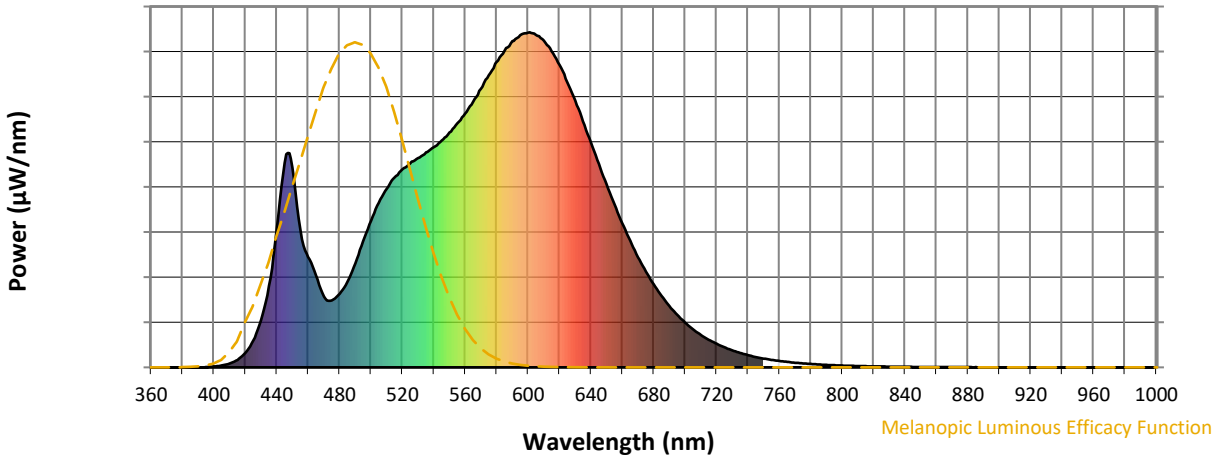


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

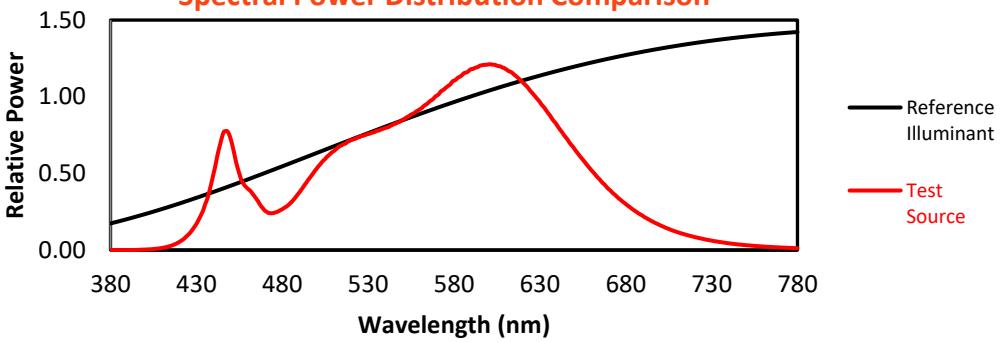
REPORT NUMBER: SP1-2407-184-10

TM-30-18

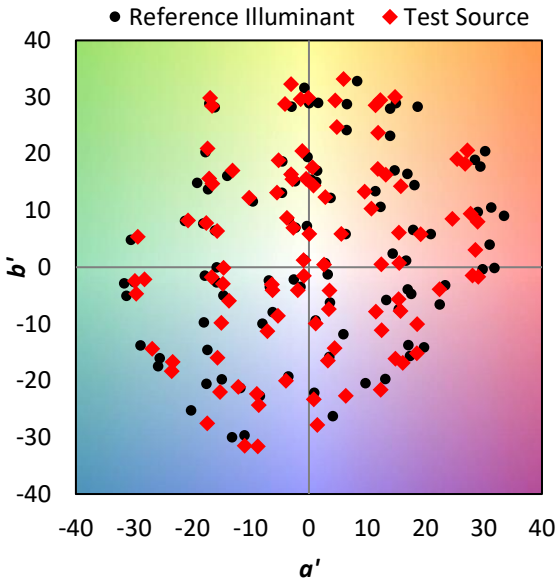
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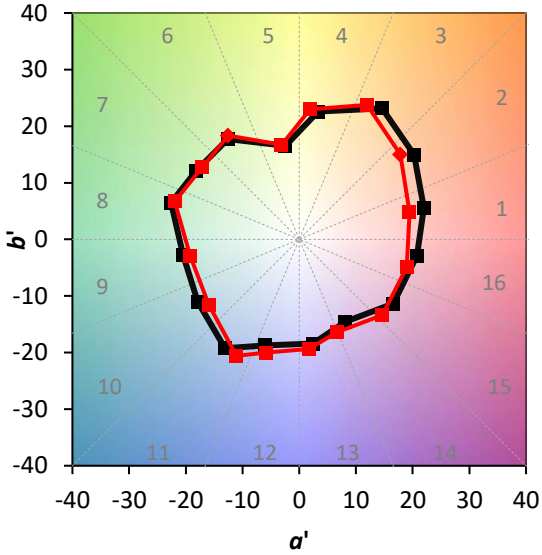
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

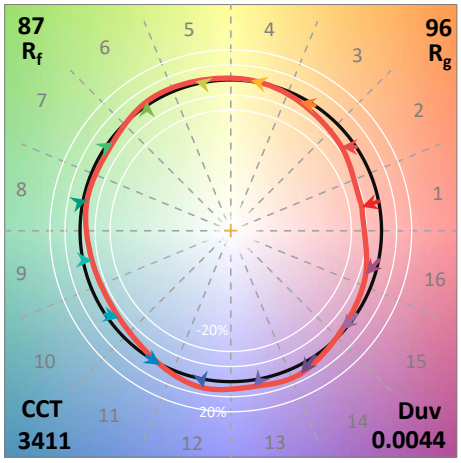
Spectral Power Distribution Comparison

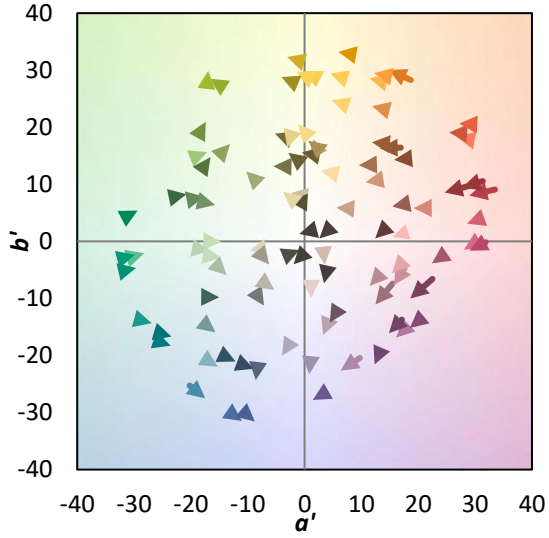


Color Vector Graphics







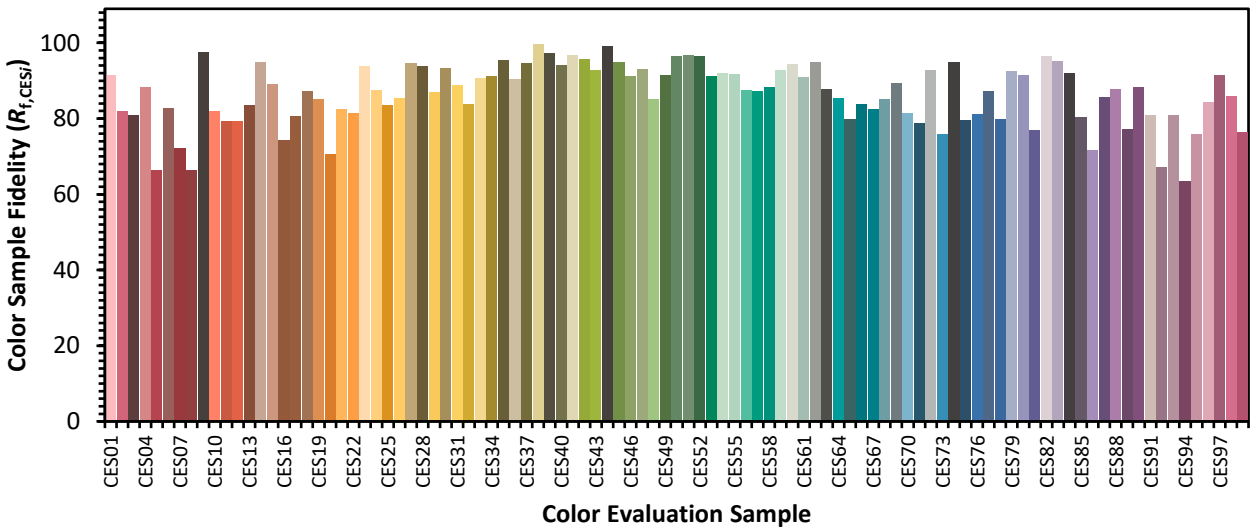


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Individual Sample Fidelity Index ($R_{f,i}$)

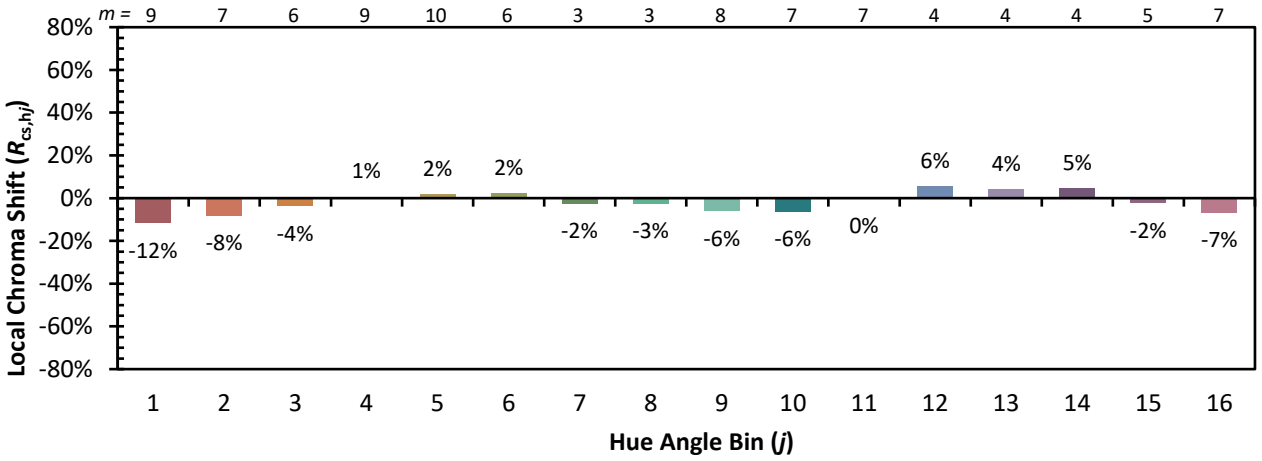
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	

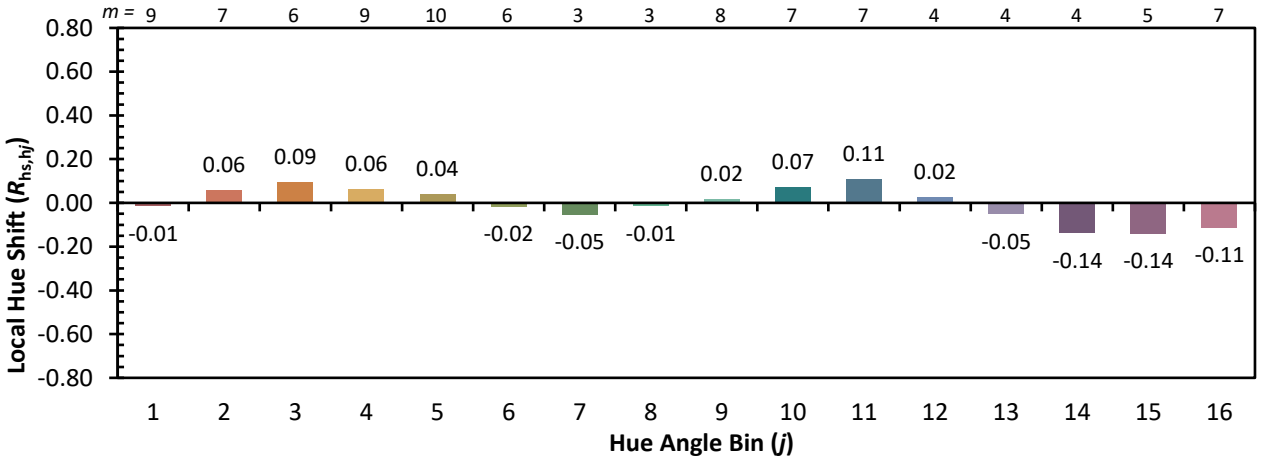


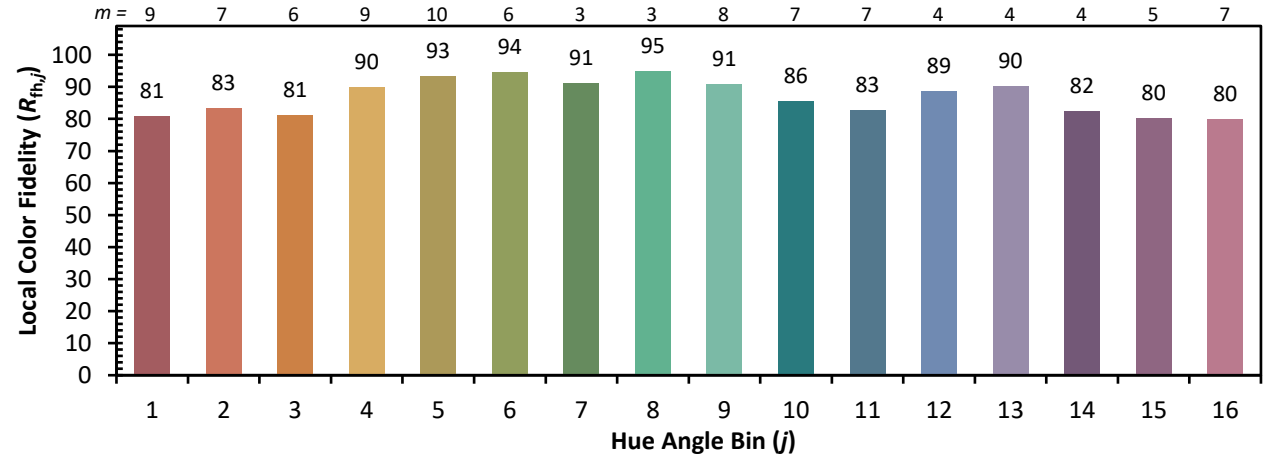
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Color Rendition by Hue-Angle Bin



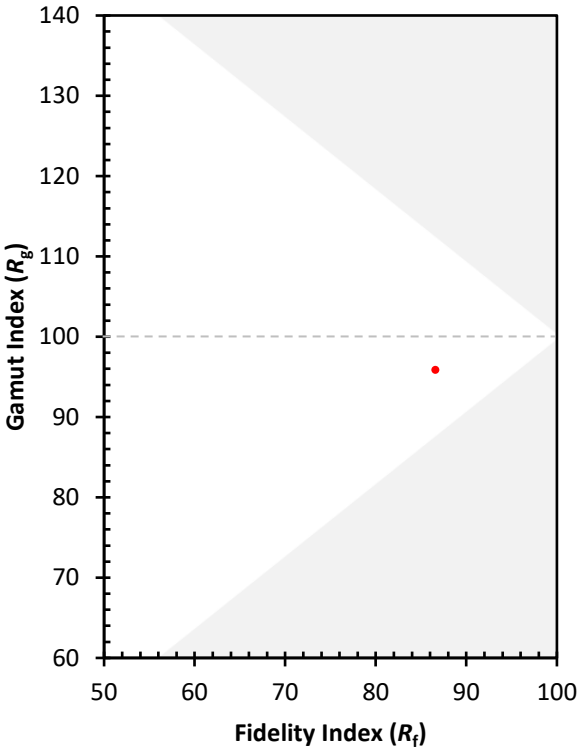


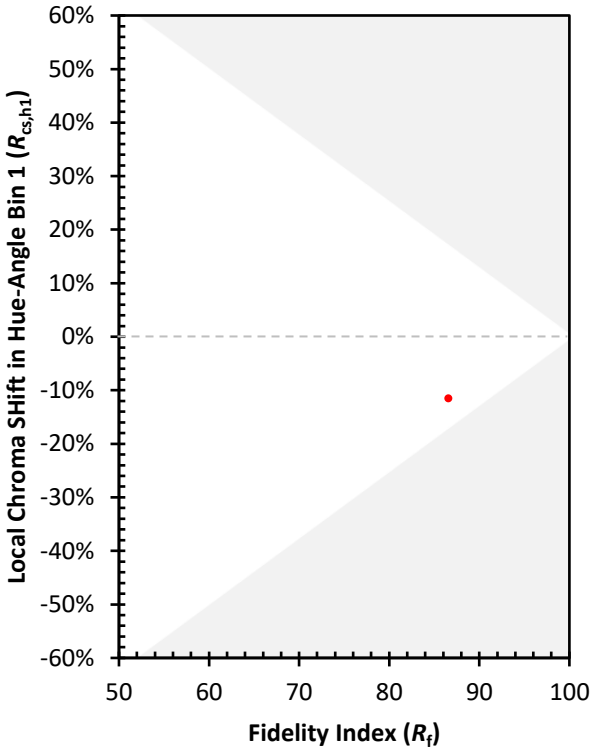


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Measure Comparisons





(END OF REPORT)