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: P1704732

Luminaire Tested: GSS-SB5A-AMB-U-SLL

Issue Date: 10/28/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1704732
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5A-AMB-U-SLL
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 5SQUARE 161W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION
Light Source:	(130) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9764.5 lumens
Efficiency:	N/A
Efficacy:	60.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	160.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

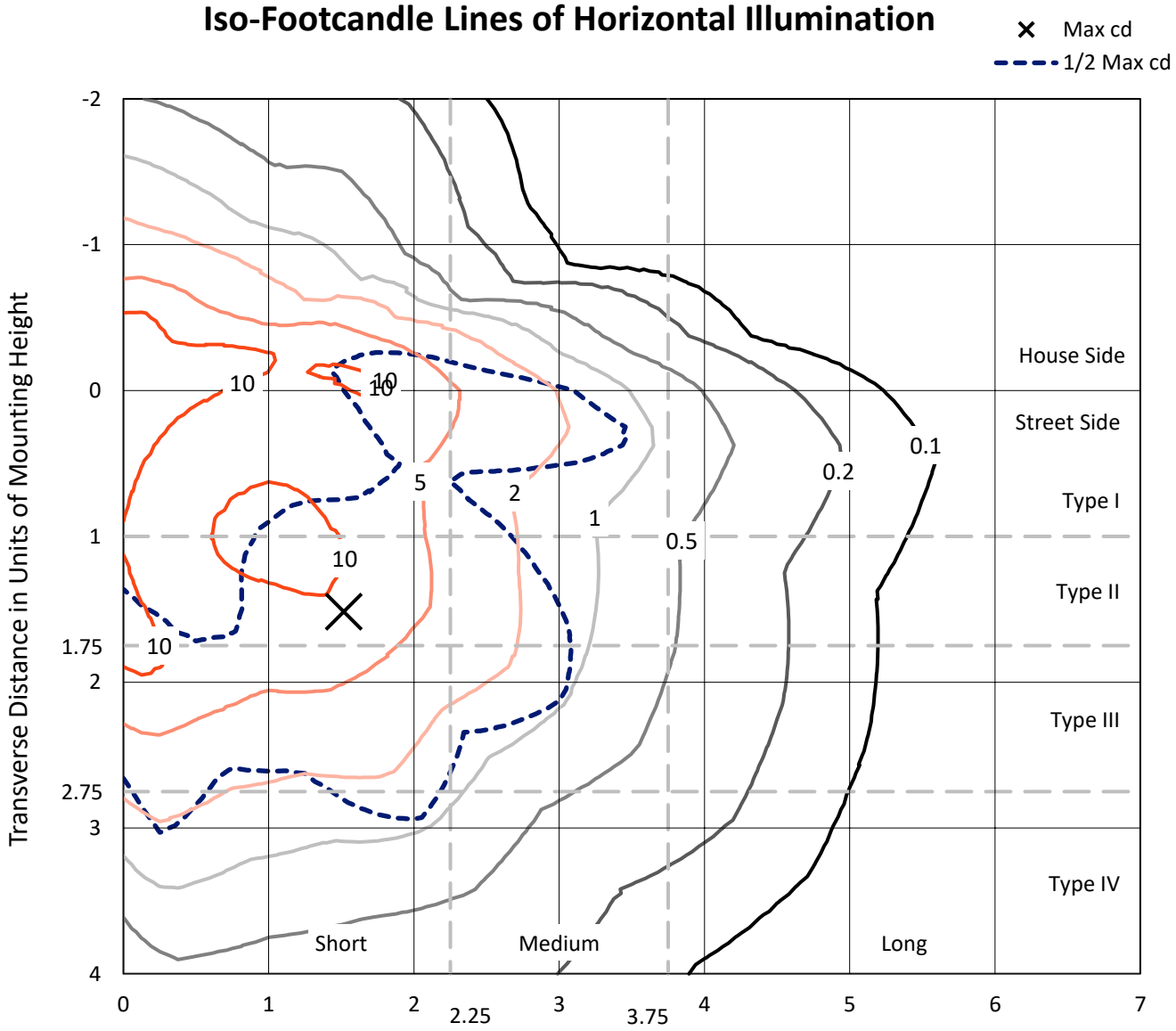


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Iso-Footcandle Lines of Horizontal Illumination



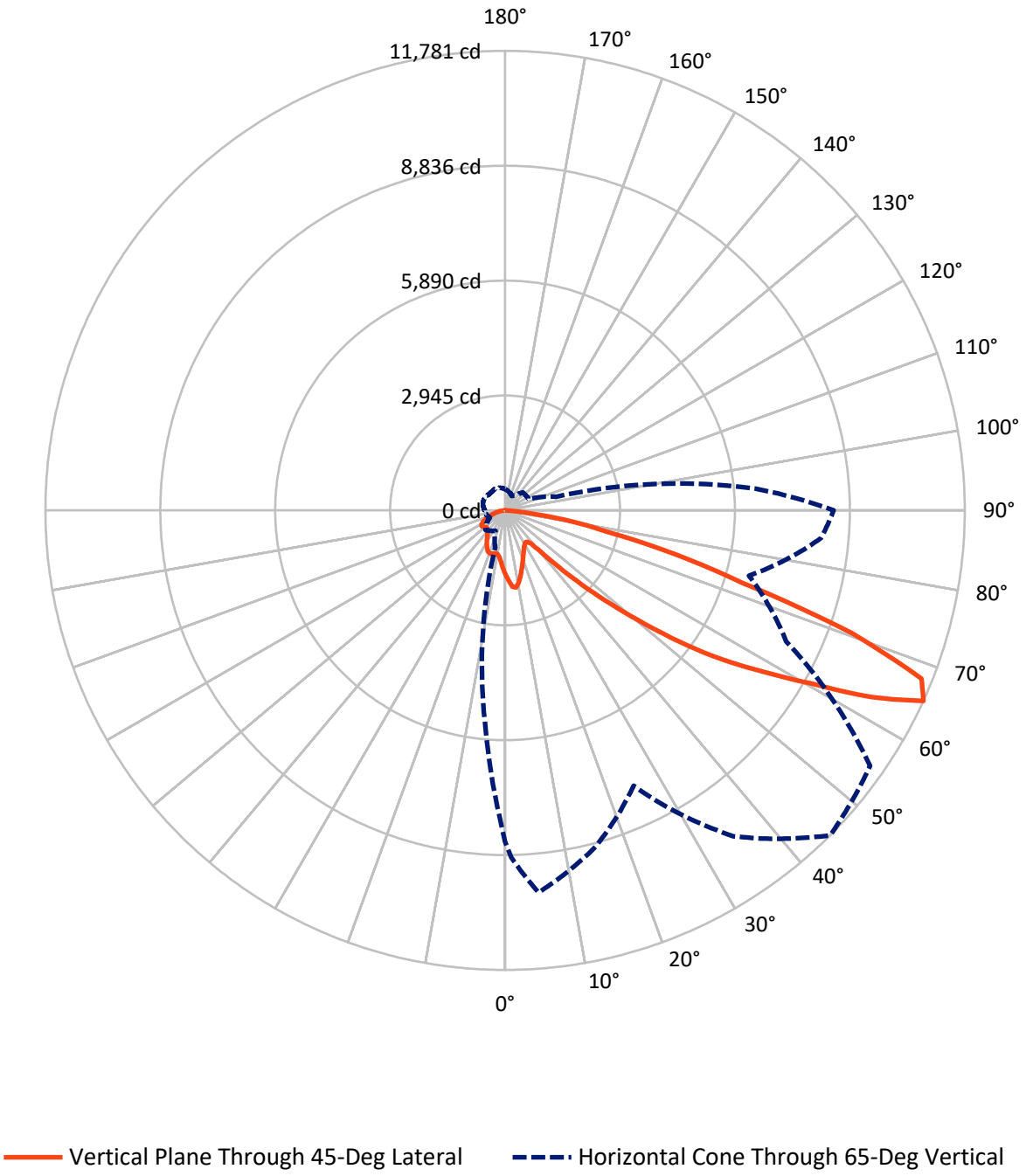
Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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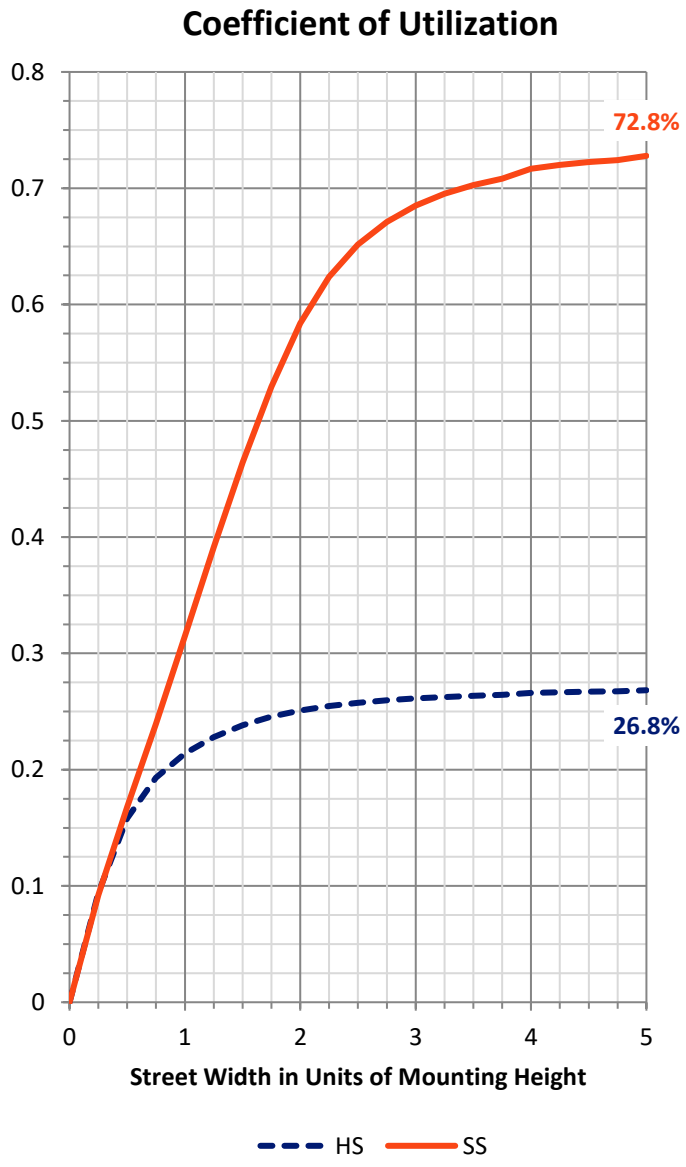
REPORT NUMBER: P1704732
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2644.2	0.0	2644.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7120.3	0.0	7120.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	9764.5	0.0	9764.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.6
10°-20°	444.6	4.6
20°-30°	675.0	6.9
30°-40°	820.3	8.4
40°-50°	1145.9	11.7
50°-60°	2024.7	20.7
60°-70°	2837.8	29.1
70°-80°	1496.5	15.3
80°-90°	165.5	1.7
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°	9764.5	100.0
0°-180°	9764.5	100.0



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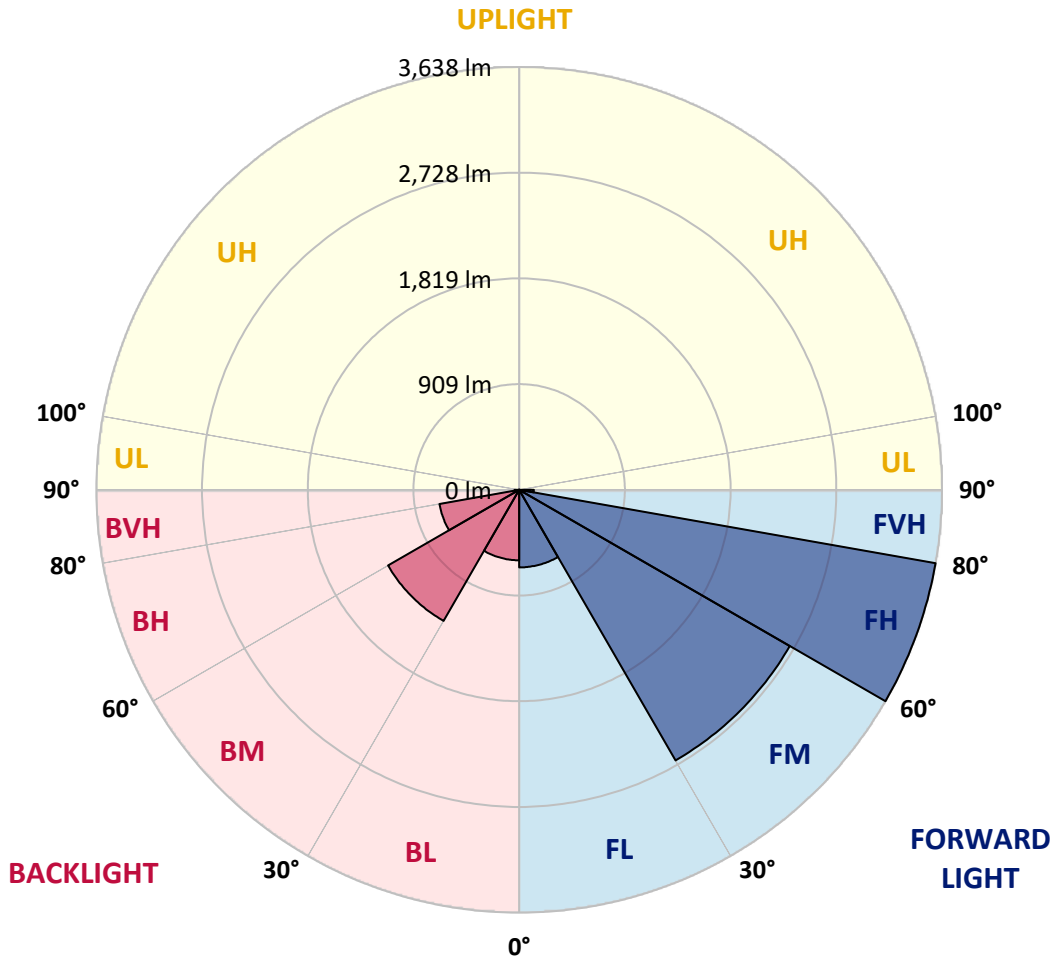
Scaled Data Report

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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°)	667.5	6.8			
FM	(30°-60°)	2688.3	27.5			
FH	(60°-80°)	3637.9	37.3			G2/5000
FVH	(80°-90°)	126.5	1.3			G2/225
BL	(0°-30°)	606.2	6.2	B2/1000		
BM	(30°-60°)	1302.6	13.3	B2/2500		
BH	(60°-80°)	696.4	7.1	B2/1000		G2/1000
BVH	(80°-90°)	39.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	*1646.1*	1646.1	1646.1	1646.1	1646.1
2.5°	1744.6	1763.4	1768.1	1772.7	1772.7	1796.2	*1800.9*	1796.2	1791.5	1786.8	1782.1
5°	1852.5	1857.2	1866.5	1913.4	1932.2	1955.6	*1965.0*	1979.1	1965.0	1946.3	1913.4
7.5°	1908.7	1927.5	1951.0	1974.4	1974.4	1993.2	*1993.2*	1997.8	2002.5	2002.5	1993.2
10°	1941.6	1946.3	1969.7	1960.3	1941.6	1913.4	*1894.7*	1894.7	1922.8	1946.3	1983.8
12.5°	1951.0	1951.0	1955.6	1918.1	1829.0	1782.1	*1735.2*	1744.6	1777.4	1833.7	1918.1
15°	1936.9	1932.2	1922.8	1810.3	1693.0	1608.6	*1580.5*	1589.8	1618.0	1702.4	1843.1
17.5°	1927.5	1913.4	1861.8	1702.4	1566.4	1467.9	*1439.8*	1435.1	1486.7	1599.2	1758.7
20°	1913.4	1890.0	1800.9	1599.2	1444.5	1355.3	*1313.1*	1317.8	1369.4	1491.4	1688.3
22.5°	1894.7	1861.8	1758.7	1510.1	1341.3	1247.5	*1205.3*	1205.3	1280.3	1421.0	1636.7
25°	1899.4	1857.2	1725.8	1444.5	1280.3	1167.8	*1116.2*	1116.2	1200.6	1355.3	1594.5
27.5°	1890.0	1857.2	1711.8	1421.0	1224.0	1116.2	*1045.8*	1055.2	1134.9	1313.1	1561.7
30°	1913.4	1866.5	1697.7	1388.2	1200.6	1074.0	*998.9*	1013.0	1097.4	1285.0	1538.3
32.5°	1960.3	1913.4	1707.1	1388.2	1195.9	1059.9	*970.8*	994.2	1088.0	1275.6	1538.3
35°	2030.7	1960.3	1725.8	1421.0	1214.7	1078.7	*994.2*	1003.6	1106.8	1280.3	1552.3
37.5°	2143.2	2054.1	1800.9	1467.9	1280.3	1163.1	*1083.3*	1074.0	1163.1	1303.8	1580.5
40°	2274.5	2185.4	1899.4	1571.1	1425.7	1402.2	*1341.3*	1270.9	1294.4	1392.9	1655.5
42.5°	2466.8	2349.6	2049.4	1749.3	1702.4	1810.3	*1871.2*	1702.4	1552.3	1524.2	1758.7
45°	2720.1	2612.2	2288.6	2011.9	2162.0	2480.9	*2588.8*	2344.9	1997.8	1754.0	1922.8
47.5°	3175.0	2982.7	2631.0	2377.7	2691.9	3273.5	*3442.3*	3142.2	2560.6	2054.1	2115.1
50°	3845.6	3662.7	3020.2	2781.0	3268.8	4131.7	*4413.1*	4052.0	3175.0	2471.5	2387.1
52.5°	5027.5	4736.7	3709.6	3156.2	3826.9	5050.9	*5599.6*	5008.7	3840.9	2865.5	2790.4
55°	6622.0	6321.8	5107.2	3568.9	4319.3	5862.2	*6743.9*	6265.6	4469.4	3193.7	3620.5
57.5°	8732.4	8422.9	6809.6	4141.1	4675.7	6518.8	*7794.4*	7278.6	5032.1	3573.6	4929.0
60°	10228.4	10373.8	9215.4	4994.6	5172.8	7222.3	*9009.1*	8465.1	5632.4	4019.1	6964.3
62.5°	9782.9	10233.1	11424.3	7447.4	6368.7	8591.7	*10547.3*	10036.1	6753.3	5580.8	8877.8
65°	*8488.5*	*8891.8*	*9834.5*	*8934.0*	*7789.7*	*10195.6*	*11780.7*	*11419.6*	*7949.2*	*6467.2*	*8132.1*
67.5°	7086.3	7470.8	8516.7	6931.5	7269.2	10050.2	*11508.7*	11194.5	7480.2	5458.9	7831.9
70°	5421.4	5838.8	6959.6	5576.2	6274.9	8990.3	*9426.5*	10050.2	6861.2	4999.3	7358.3
72.5°	3761.2	4295.8	5501.1	4530.3	4863.3	7892.9	*6345.3*	8488.5	5951.3	4502.2	6692.3
75°	2373.0	2767.0	3784.7	3489.2	3901.9	5182.2	*4521.0*	5632.4	4933.7	3873.8	5538.6
77.5°	1144.3	1308.5	2058.8	2255.8	2715.4	3315.7	*2724.8*	3925.4	3442.3	2429.3	3353.2
80°	314.2	361.1	529.9	886.4	1275.6	2049.4	*1735.2*	2082.3	1866.5	1383.5	1782.1
82.5°	121.9	136.0	154.8	351.7	600.3	1102.1	*656.6*	975.5	891.1	459.6	595.6
85°	46.9	51.6	61.0	79.7	318.9	412.7	*234.5*	300.1	408.0	136.0	140.7
87.5°	4.7	4.7	9.4	9.4	9.4	14.1	*28.1*	28.1	18.8	18.8	18.8
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°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1772.7	1763.4	1730.5	1711.8	1678.9	1641.4	1618.0	1575.8	1566.4	1533.6	1547.6
5°	1904.1	1871.2	1819.6	1754.0	1688.3	1613.3	1552.3	1486.7	1430.4	1378.8	1374.1
7.5°	1969.7	1951.0	1885.3	1800.9	1697.7	1585.1	1510.1	1402.2	1336.6	1280.3	1266.2
10°	1983.8	1969.7	1908.7	1824.3	1725.8	1608.6	1500.7	1378.8	1280.3	1214.7	1191.2
12.5°	1932.2	1960.3	1918.1	1838.4	1730.5	1641.4	1542.9	1439.8	1313.1	1210.0	1172.4
15°	1890.0	1932.2	1932.2	1838.4	1739.9	1655.5	1594.5	1528.9	1439.8	1299.1	1238.1
17.5°	1852.5	1922.8	1965.0	1861.8	1749.3	1646.1	1608.6	1636.7	1627.4	1472.6	1364.7
20°	1819.6	1922.8	1979.1	1875.9	1721.2	1589.8	1566.4	1688.3	1800.9	1669.6	1514.8
22.5°	1777.4	1913.4	2016.6	1871.2	1669.6	1482.0	1496.0	1669.6	1814.9	1768.1	1627.4
25°	1754.0	1918.1	2049.4	1885.3	1575.8	1336.6	1392.9	1575.8	1711.8	1725.8	1599.2
27.5°	1730.5	1941.6	2119.8	1885.3	1477.3	1238.1	1317.8	1435.1	1557.0	1580.5	1482.0
30°	1744.6	1965.0	2199.5	1899.4	1378.8	1177.1	1247.5	1331.9	1397.6	1388.2	1313.1
32.5°	1754.0	2040.1	2344.9	1936.9	1275.6	1144.3	1195.9	1252.2	1261.6	1242.8	1167.8
35°	1782.1	2129.2	2457.4	1997.8	1219.3	1106.8	1144.3	1153.7	1158.4	1130.2	1078.7
37.5°	1829.0	2218.3	2574.7	1979.1	1224.0	1088.0	1074.0	1059.9	1041.1	1041.1	994.2
40°	1918.1	2359.0	2696.6	1908.7	1214.7	1059.9	989.5	961.4	938.0	942.6	919.2
42.5°	2054.1	2555.9	2846.7	1768.1	1177.1	1031.8	914.5	862.9	839.5	853.5	867.6
45°	2223.0	2781.0	3015.5	1613.3	1088.0	984.9	834.8	787.9	764.4	778.5	806.6
47.5°	2424.6	3081.2	3146.8	1406.9	994.2	900.4	759.7	708.2	689.4	726.9	764.4
50°	2752.9	3568.9	3311.0	1238.1	909.8	806.6	680.0	637.8	647.2	694.1	731.6
52.5°	3456.4	4539.7	3601.8	1088.0	867.6	694.1	595.6	586.2	619.1	675.3	708.2
55°	4647.6	5768.4	3780.0	1017.7	820.7	628.4	529.9	562.8	595.6	661.3	698.8
57.5°	6509.4	6950.3	3503.3	956.7	797.3	619.1	492.4	544.0	586.2	651.9	684.7
60°	8521.3	7503.7	2945.2	877.0	783.2	647.2	469.0	506.5	567.5	628.4	665.9
62.5°	8882.5	7236.3	2138.5	783.2	731.6	661.3	464.3	469.0	515.9	581.5	614.4
65°	*8418.2*	*6420.3*	*1346.0*	*670.6*	*656.6*	*647.2*	*473.7*	*408.0*	*469.0*	*520.6*	*544.0*
67.5°	7756.9	5144.7	787.9	529.9	581.5	600.3	464.3	370.5	422.1	459.6	478.4
70°	6926.8	3958.2	539.3	393.9	469.0	525.3	426.8	333.0	375.2	412.7	422.1
72.5°	5637.1	2687.2	375.2	309.5	379.9	393.9	370.5	309.5	333.0	365.8	375.2
75°	4117.6	1613.3	243.9	243.9	257.9	314.2	304.8	272.0	286.1	318.9	328.3
77.5°	2246.4	680.0	159.5	178.2	168.8	257.9	243.9	220.4	220.4	253.2	262.6
80°	1149.0	342.4	112.6	107.9	112.6	192.3	182.9	145.4	159.5	178.2	187.6
82.5°	393.9	150.1	75.0	65.7	75.0	98.5	117.2	103.2	112.6	112.6	107.9
85°	117.2	65.7	42.2	37.5	37.5	42.2	75.0	56.3	56.3	42.2	46.9
87.5°	18.8	18.8	18.8	18.8	18.8	18.8	23.4	23.4	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1519.5	1510.1	1505.4	1486.7	1486.7	1500.7	1491.4	1505.4	1533.6	1542.9	1547.6
5°	1360.0	1350.7	1327.2	1322.5	1317.8	1322.5	1341.3	1355.3	1392.9	1416.3	1425.7
7.5°	1247.5	1224.0	1200.6	1205.3	1205.3	1210.0	1224.0	1252.2	1289.7	1317.8	1346.0
10°	1163.1	1139.6	1134.9	1130.2	1139.6	1153.7	1177.1	1195.9	1252.2	1289.7	1322.5
12.5°	1149.0	1120.9	1116.2	1111.5	1130.2	1139.6	1167.8	1200.6	1275.6	1317.8	1355.3
15°	1186.5	1139.6	1134.9	1139.6	1139.6	1172.4	1200.6	1261.6	1360.0	1425.7	1510.1
17.5°	1280.3	1177.1	1163.1	1158.4	1172.4	1205.3	1238.1	1327.2	1491.4	1618.0	1716.5
20°	1369.4	1214.7	1172.4	1163.1	1167.8	1205.3	1256.9	1378.8	1636.7	1777.4	1833.7
22.5°	1430.4	1219.3	1163.1	1149.0	1153.7	1181.8	1233.4	1392.9	1669.6	1763.4	1810.3
25°	1421.0	1186.5	1116.2	1092.7	1097.4	1125.5	1181.8	1341.3	1542.9	1641.4	1660.2
27.5°	1289.7	1120.9	1050.5	1027.1	1022.4	1059.9	1102.1	1205.3	1388.2	1486.7	1505.4
30°	1167.8	1003.6	970.8	942.6	947.3	975.5	994.2	1078.7	1270.9	1346.0	1346.0
32.5°	1045.8	923.9	891.1	872.3	872.3	891.1	909.8	994.2	1149.0	1210.0	1233.4
35°	984.9	881.7	844.2	806.6	802.0	830.1	877.0	952.0	1069.3	1116.2	1111.5
37.5°	942.6	862.9	802.0	759.7	745.7	787.9	858.2	919.2	994.2	1008.3	1013.0
40°	905.1	844.2	783.2	726.9	717.5	764.4	834.8	895.7	928.6	923.9	914.5
42.5°	862.9	834.8	759.7	703.5	694.1	736.3	806.6	853.5	844.2	839.5	820.7
45°	820.7	797.3	722.2	670.6	661.3	698.8	759.7	806.6	797.3	764.4	736.3
47.5°	778.5	764.4	708.2	651.9	642.5	689.4	741.0	783.2	759.7	731.6	703.5
50°	750.4	755.1	712.8	675.3	661.3	703.5	750.4	773.8	736.3	703.5	675.3
52.5°	736.3	764.4	731.6	694.1	689.4	722.2	755.1	764.4	712.8	680.0	651.9
55°	736.3	769.1	745.7	708.2	712.8	726.9	745.7	755.1	694.1	656.6	628.4
57.5°	726.9	764.4	731.6	717.5	717.5	717.5	741.0	736.3	675.3	637.8	609.7
60°	703.5	731.6	712.8	694.1	689.4	703.5	722.2	703.5	642.5	605.0	576.8
62.5°	642.5	680.0	675.3	656.6	642.5	661.3	680.0	656.6	595.6	562.8	548.7
65°	*567.5*	*600.3*	*609.7*	*586.2*	*581.5*	*614.4*	*609.7*	*590.9*	*544.0*	*520.6*	*506.5*
67.5°	492.4	525.3	525.3	520.6	525.3	529.9	544.0	525.3	487.7	473.7	464.3
70°	440.8	464.3	459.6	440.8	440.8	469.0	483.0	483.0	454.9	436.2	431.5
72.5°	384.6	403.3	393.9	379.9	351.7	408.0	431.5	436.2	408.0	393.9	384.6
75°	337.7	351.7	342.4	290.8	290.8	328.3	379.9	375.2	347.0	333.0	328.3
77.5°	276.7	286.1	276.7	234.5	229.8	262.6	304.8	304.8	295.5	276.7	272.0
80°	192.3	211.0	192.3	168.8	164.1	192.3	229.8	234.5	215.7	206.4	201.7
82.5°	117.2	136.0	126.6	103.2	103.2	131.3	145.4	150.1	121.9	107.9	112.6
85°	46.9	56.3	61.0	56.3	42.2	51.6	65.7	56.3	51.6	51.6	51.6
87.5°	23.4	18.8	18.8	14.1	14.1	14.1	14.1	18.8	23.4	23.4	28.1
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: P1704732
CATALOG NUMBER: GSS-SB5A-AMB-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1	1646.1
2.5°	1566.4	1580.5	1608.6	1636.7	1674.3	1683.6	1716.5	1730.5	1739.9	1744.6
5°	1477.3	1519.5	1571.1	1622.7	1678.9	1730.5	1782.1	1829.0	1843.1	1852.5
7.5°	1421.0	1482.0	1542.9	1618.0	1678.9	1730.5	1829.0	1880.6	1904.1	1908.7
10°	1411.6	1496.0	1571.1	1632.0	1688.3	1749.3	1833.7	1913.4	1932.2	1941.6
12.5°	1467.9	1561.7	1608.6	1655.5	1707.1	1744.6	1847.8	1932.2	1951.0	1951.0
15°	1603.9	1618.0	1627.4	1646.1	1697.7	1763.4	1861.8	1927.5	1941.6	1936.9
17.5°	1772.7	1655.5	1566.4	1594.5	1688.3	1763.4	1875.9	1936.9	1927.5	1927.5
20°	1791.5	1618.0	1477.3	1491.4	1627.4	1763.4	1894.7	1941.6	1922.8	1913.4
22.5°	1707.1	1552.3	1397.6	1364.7	1552.3	1777.4	1932.2	1965.0	1908.7	1894.7
25°	1589.8	1463.2	1346.0	1266.2	1472.6	1777.4	1988.5	1997.8	1922.8	1899.4
27.5°	1463.2	1388.2	1289.7	1205.3	1388.2	1810.3	2091.6	2049.4	1932.2	1890.0
30°	1336.6	1294.4	1238.1	1163.1	1322.5	1871.2	2213.6	2143.2	1969.7	1913.4
32.5°	1228.7	1219.3	1177.1	1134.9	1280.3	1941.6	2354.3	2246.4	2021.3	1960.3
35°	1111.5	1120.9	1106.8	1116.2	1266.2	1979.1	2499.7	2391.8	2124.5	2030.7
37.5°	1017.7	1031.8	1036.4	1116.2	1252.2	1960.3	2616.9	2546.6	2218.3	2143.2
40°	928.6	947.3	984.9	1116.2	1205.3	1857.2	2776.4	2729.5	2377.7	2274.5
42.5°	834.8	862.9	923.9	1092.7	1130.2	1721.2	2945.2	2992.1	2579.4	2466.8
45°	755.1	783.2	858.2	984.9	1045.8	1571.1	3109.3	3343.8	2865.5	2720.1
47.5°	675.3	703.5	783.2	881.7	961.4	1411.6	3357.9	3864.4	3296.9	3175.0
50°	637.8	628.4	680.0	783.2	938.0	1294.4	3780.0	4614.8	4037.9	3845.6
52.5°	614.4	595.6	590.9	698.8	919.2	1224.0	4202.1	5927.9	5182.2	5027.5
55°	595.6	572.2	548.7	689.4	891.1	1125.5	4324.0	7377.0	7001.9	6622.0
57.5°	581.5	553.4	525.3	726.9	886.4	998.9	3892.5	8291.5	8826.2	8732.4
60°	544.0	525.3	520.6	741.0	848.9	867.6	2987.4	8235.3	10097.1	10228.4
62.5°	515.9	478.4	544.0	745.7	755.1	722.2	1918.1	7170.7	9365.5	9782.9
65°	*483.0*	*431.5*	*572.2*	*708.2*	*637.8*	*576.8*	*980.2*	*5660.6*	*7869.5*	*8488.5*
67.5°	440.8	393.9	576.8	614.4	529.9	422.1	623.7	4333.4	6668.9	7086.3
70°	408.0	375.2	497.1	511.2	412.7	328.3	384.6	2781.0	4947.7	5421.4
72.5°	365.8	351.7	436.2	375.2	314.2	253.2	248.6	1439.8	3409.5	3761.2
75°	304.8	314.2	375.2	314.2	211.0	197.0	178.2	694.1	1965.0	2373.0
77.5°	253.2	243.9	304.8	243.9	159.5	136.0	131.3	286.1	975.5	1144.3
80°	187.6	178.2	225.1	168.8	103.2	84.4	89.1	154.8	234.5	314.2
82.5°	126.6	121.9	154.8	84.4	61.0	51.6	56.3	84.4	117.2	121.9
85°	56.3	61.0	70.3	42.2	28.1	23.4	23.4	32.8	42.2	46.9
87.5°	28.1	23.4	18.8	14.1	9.4	9.4	4.7	4.7	4.7	4.7
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: SP3-2509-541-1

Test Date: 09/16/2025

Luminaire Tested: GALN-SA1A-AMB-U-T3BC

Data in this report applies to families of products including GALN-SA1A*

Report Generated By FNC07603 / LDUCLS01DT01661
Version: v7.05

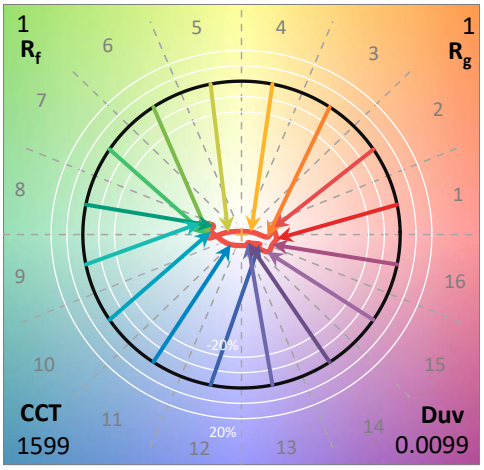
Test Information

Test Method:	LM-79-2019
Report Number:	SP3-2509-541-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP3 - 3M SPHERE
Measurement Geometry:	4π
Issue Date:	10/02/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GALN-SA1A-AMB-U-T3BC**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) AMBER, 615MA LIGHTSQUARES TYPE III ROADWAY OPTICS WITH ANGLED BACKLIGHT CONTROL HEATSINK

Spectral Parameters

CCT (K):	1599
CIE u':	0.3452
CIE v':	0.5480
Duv:	0.0099
CIE x:	0.5859
CIE y:	0.4133
CIE z:	0.0008
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	591
Purity:	99.94224
Rf:	1.2
Rg:	0.9

CRI (Ra):	-22.7				
R1:	-36.4	R9:	-395.3		
R2:	50.8	R10:	26.0		
R3:	18.3	R11:	-97.2		
R4:	-69.1	R12:	-14.1		
R5:	-41.9	R13:	-17.6		
R6:	38.5	R14:	46.4		
R7:	-6.7	R15:	-69.4		
R8:	-135.4				



Test Conditions

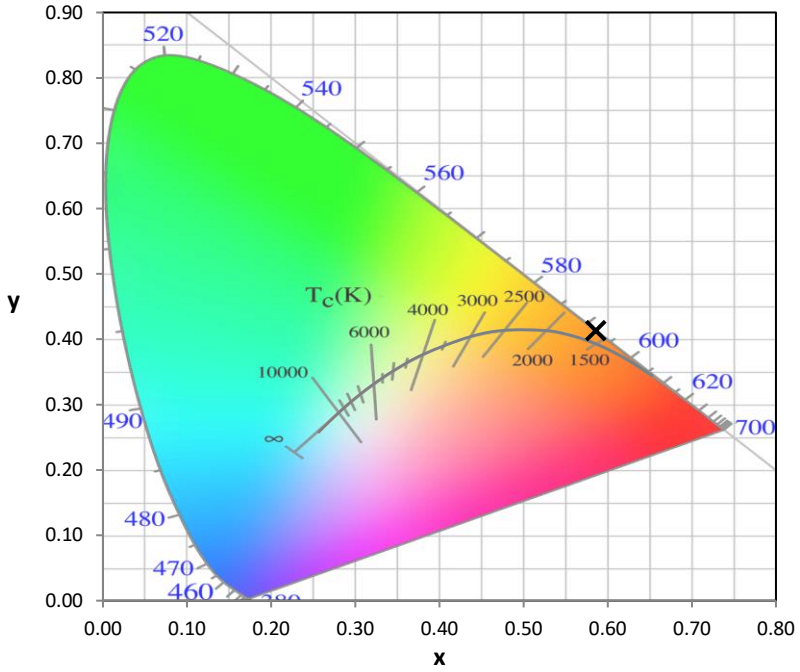
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

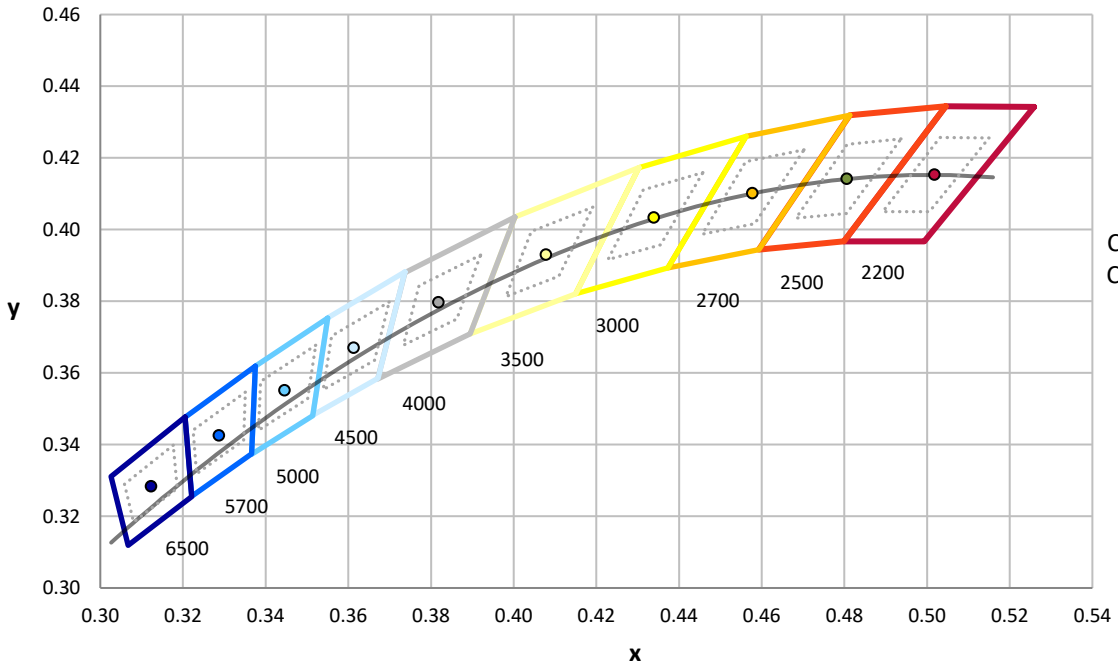
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024	10/22/2025
Sphere Thermometer	TANDD IN4036E	10/22/2024	10/22/2025

REPORT NUMBER: SP3-2509-541-1

CIE 1931 Chromaticity Diagram



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

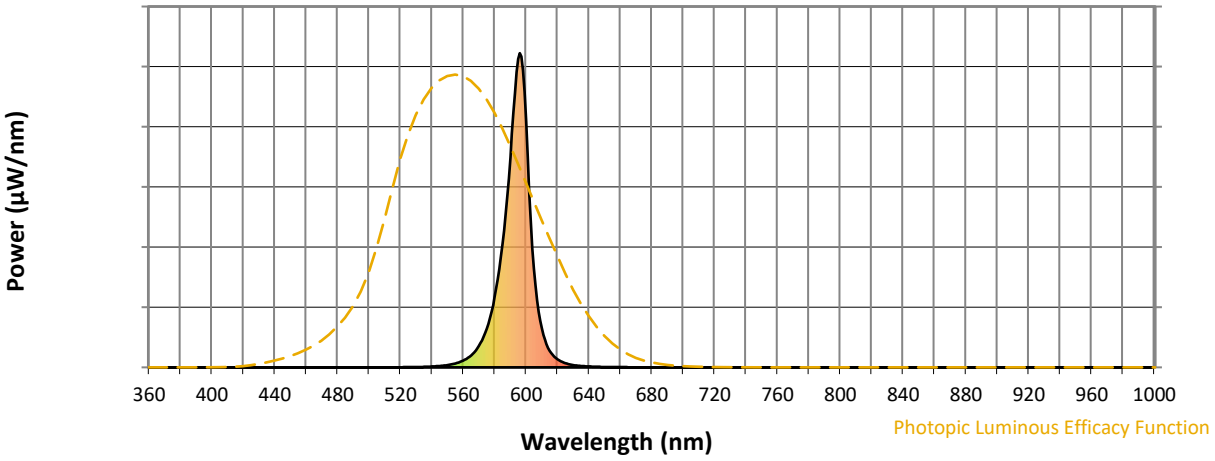


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

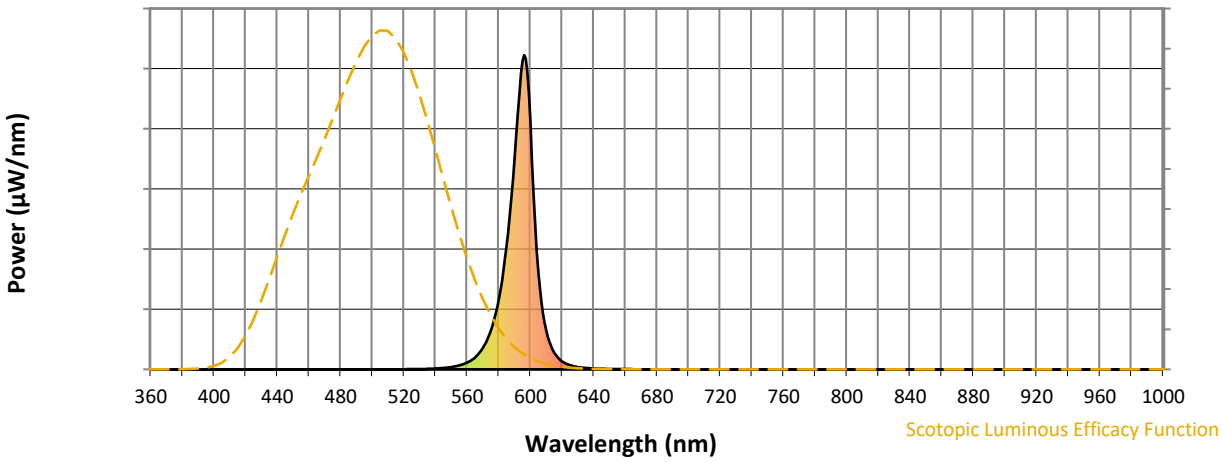


Photopic Lumens: NR

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	0	NR	620	26	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	8	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	68	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	123	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	223	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	392	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	669	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	982	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	783	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	315	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	124	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	53	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP3-2509-541-1

Scotopic Flux vs. Wavelength

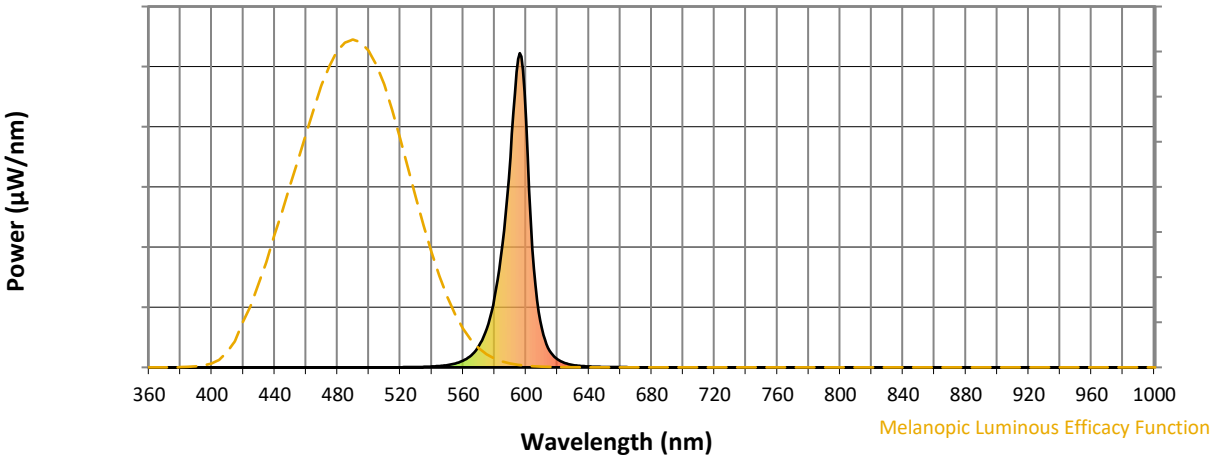


Scotopic Lumens: NR **S/P: 0.23**

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	0	NR	620	26	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	8	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	68	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	123	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	223	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	392	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	669	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	982	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	783	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	315	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	124	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	53	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP3-2509-541-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.13**

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	0	NR	620	26	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	8	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	68	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	123	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	223	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	392	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	669	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	982	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	783	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	315	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	124	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	53	NR	745	0	NR	875	0	NR			

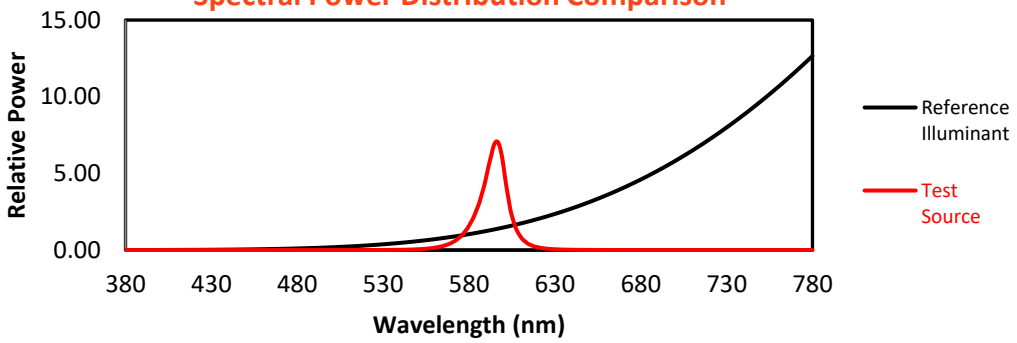
REPORT NUMBER: SP3-2509-541-1

TM-30-18

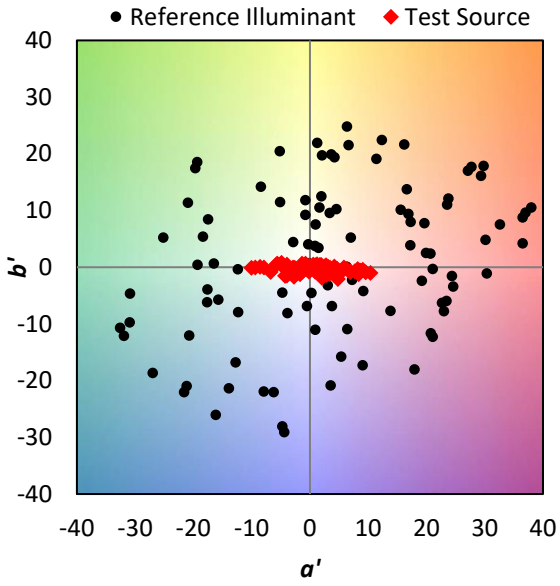
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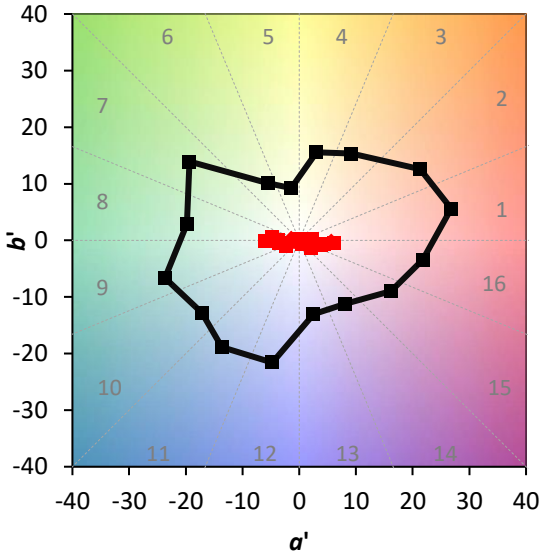
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

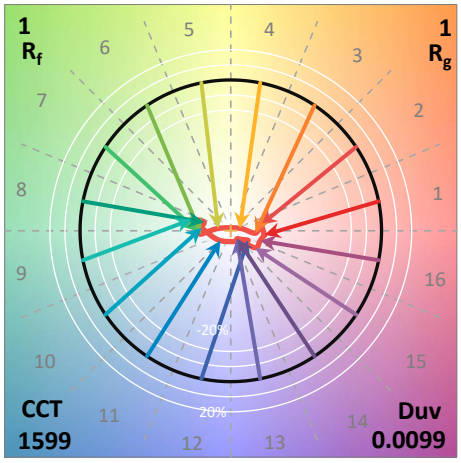
Spectral Power Distribution Comparison

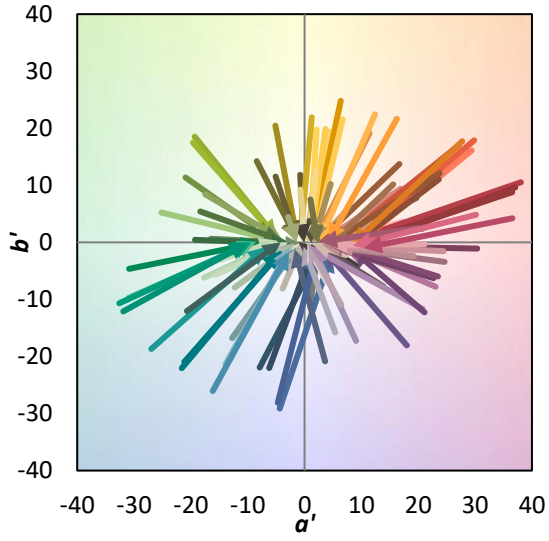


Color Vector Graphics







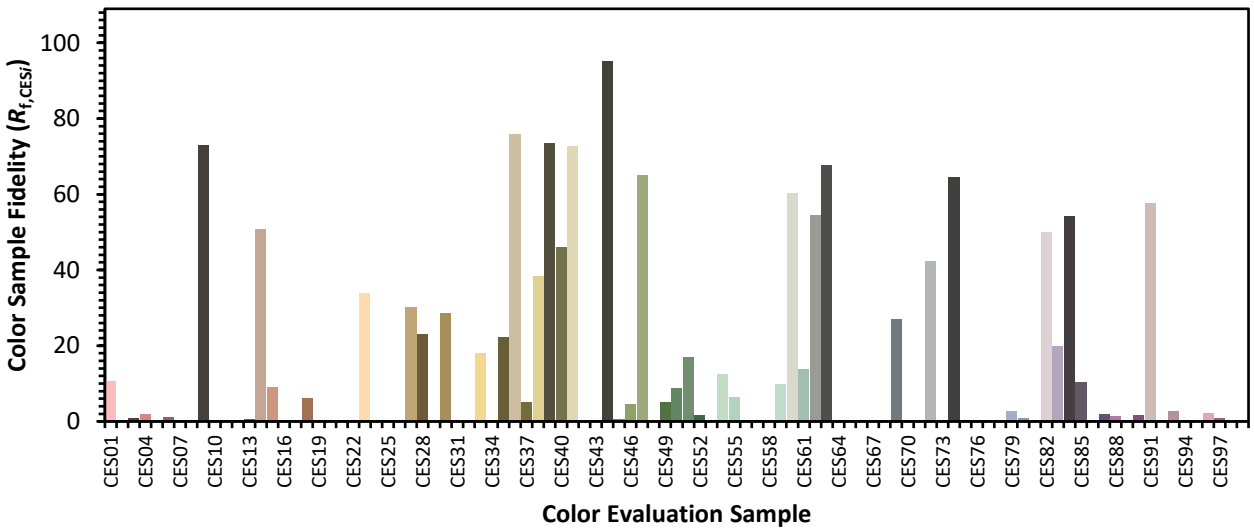


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Individual Sample Fidelity Index ($R_{f,i}$)

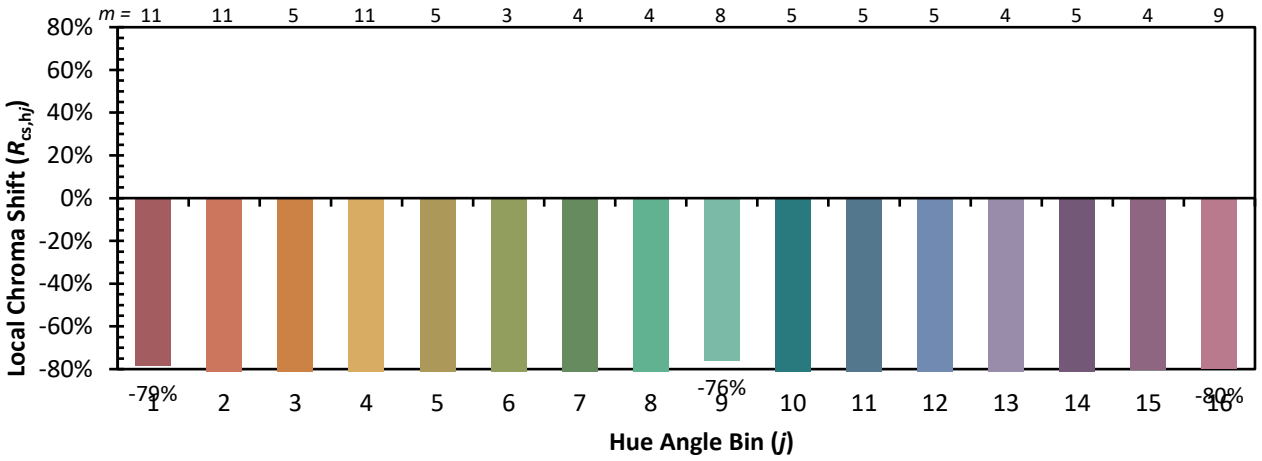
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CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 18	CES58 = 0	CES83 = 20
CES09 = 29	CES34 = 0	CES59 = 10	CES84 = 54
CES10 = 87	CES35 = 22	CES60 = 60	CES85 = 10
CES11 = 70	CES36 = 76	CES61 = 14	CES86 = 0
CES12 = 75	CES37 = 5	CES62 = 55	CES87 = 2
CES13 = 46	CES38 = 38	CES63 = 68	CES88 = 1
CES14 = 76	CES39 = 73	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 46	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 73	CES66 = 0	CES91 = 58
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 59	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 95	CES69 = 27	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 5	CES71 = 0	CES96 = 2
CES22 = 86	CES47 = 65	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 5	CES74 = 65	CES99 = 0
CES25 = 79	CES50 = 9	CES75 = 0	

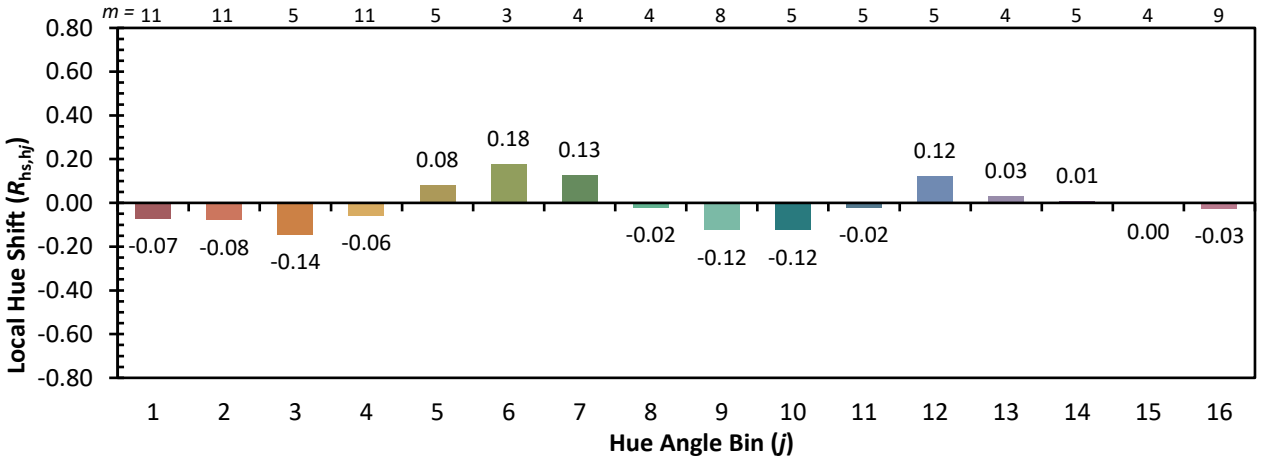


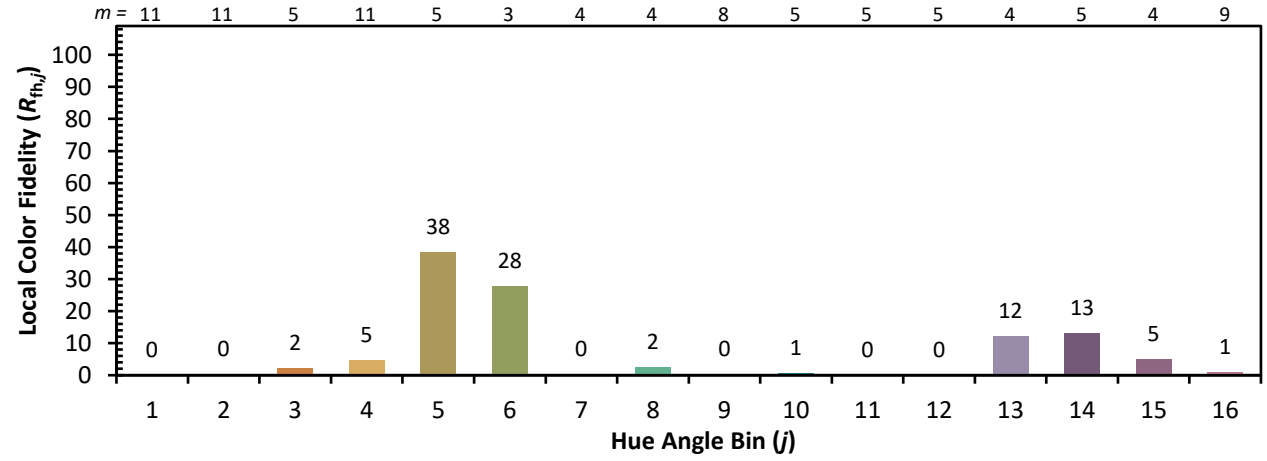
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Color Rendition by Hue-Angle Bin



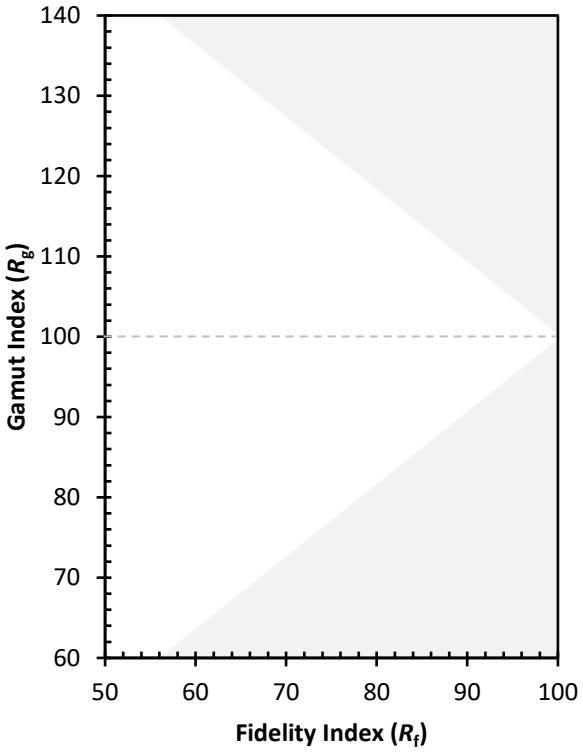


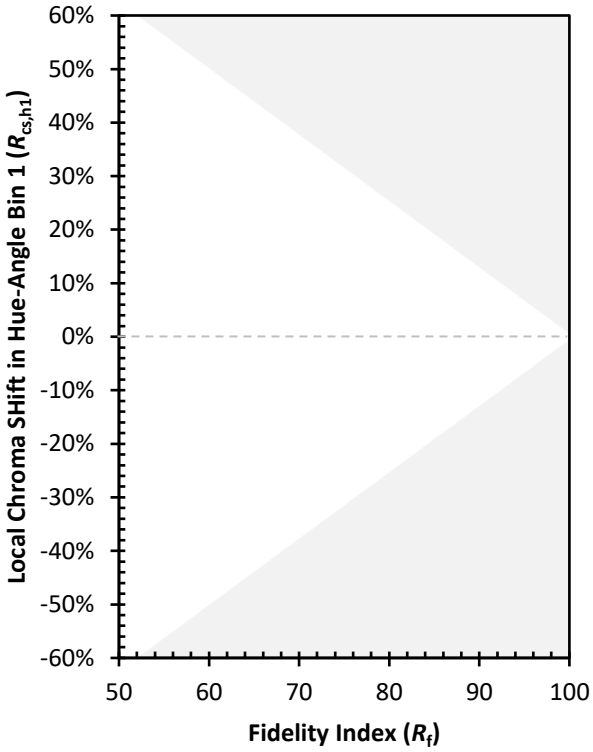


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Measure Comparisons





(END OF REPORT)