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: P1704733

Luminaire Tested: GSS-SB6A-AMB-U-SLL

Issue Date: 10/28/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1704733
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6A-AMB-U-SLL
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 6SQUARE 196W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION
Light Source:	(156) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11236.1 lumens
Efficiency:	N/A
Efficacy:	57.3 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):	196
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

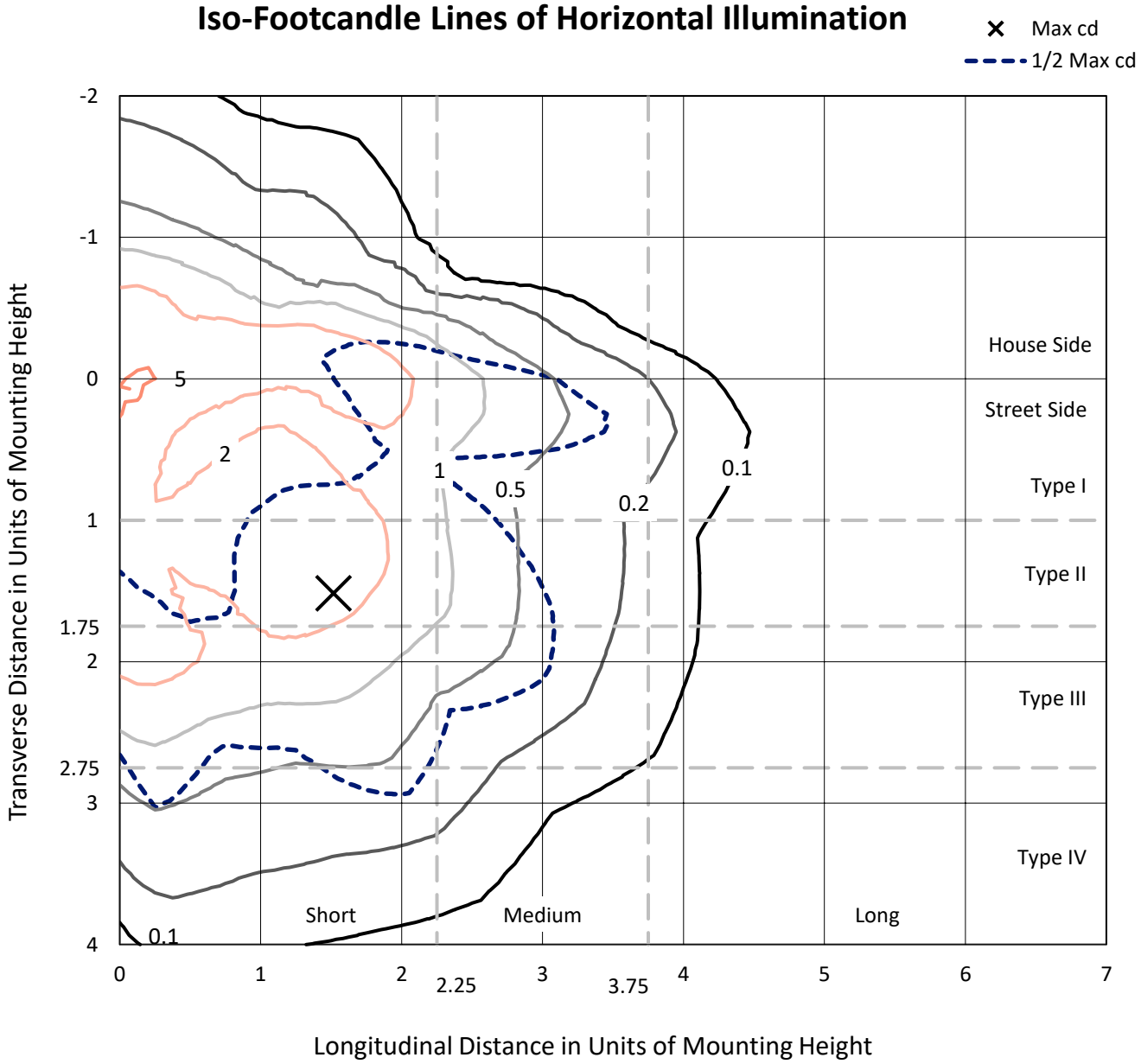


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REPORT NUMBER: P1704733
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Iso-Footcandle Lines of Horizontal Illumination



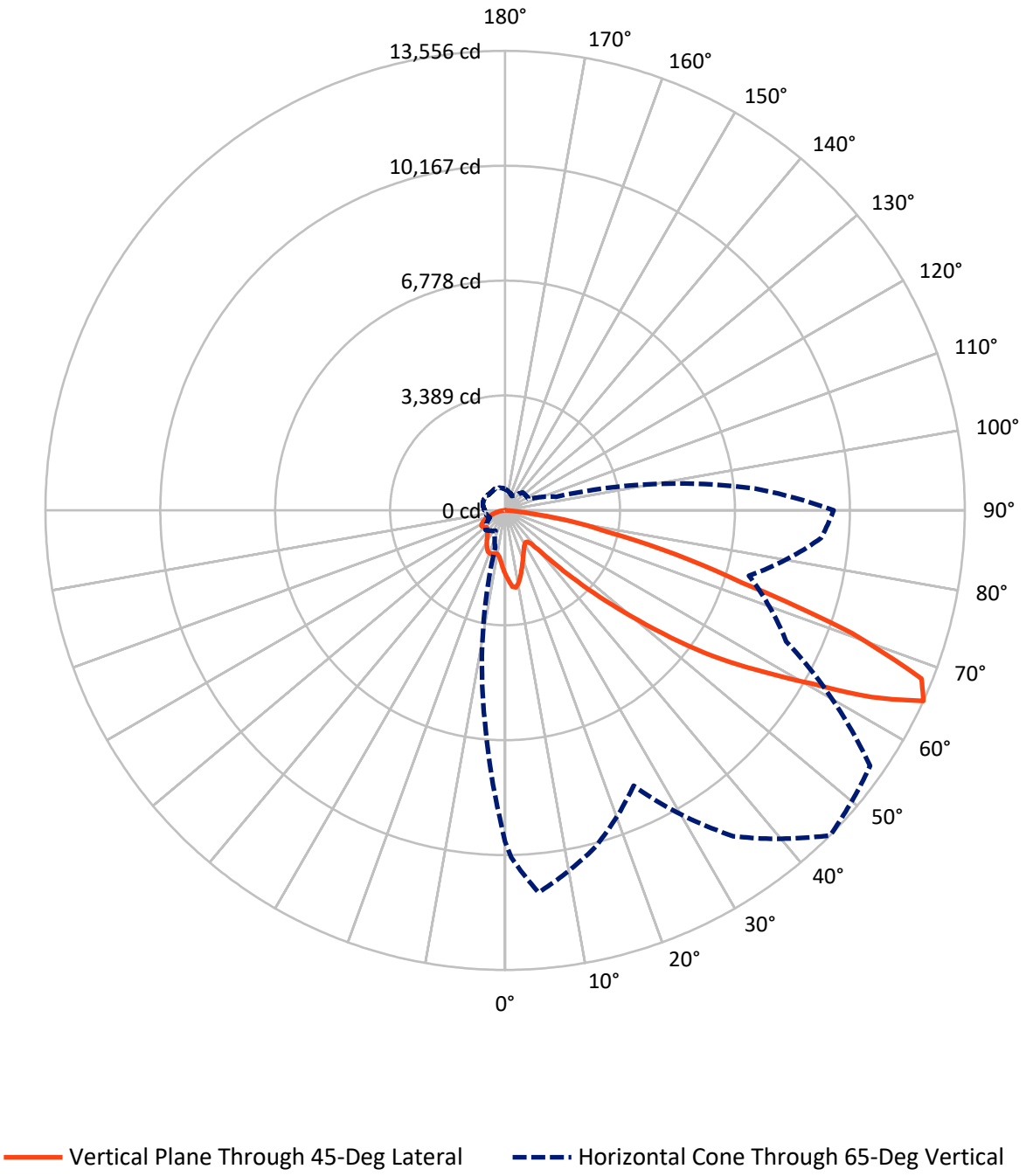
Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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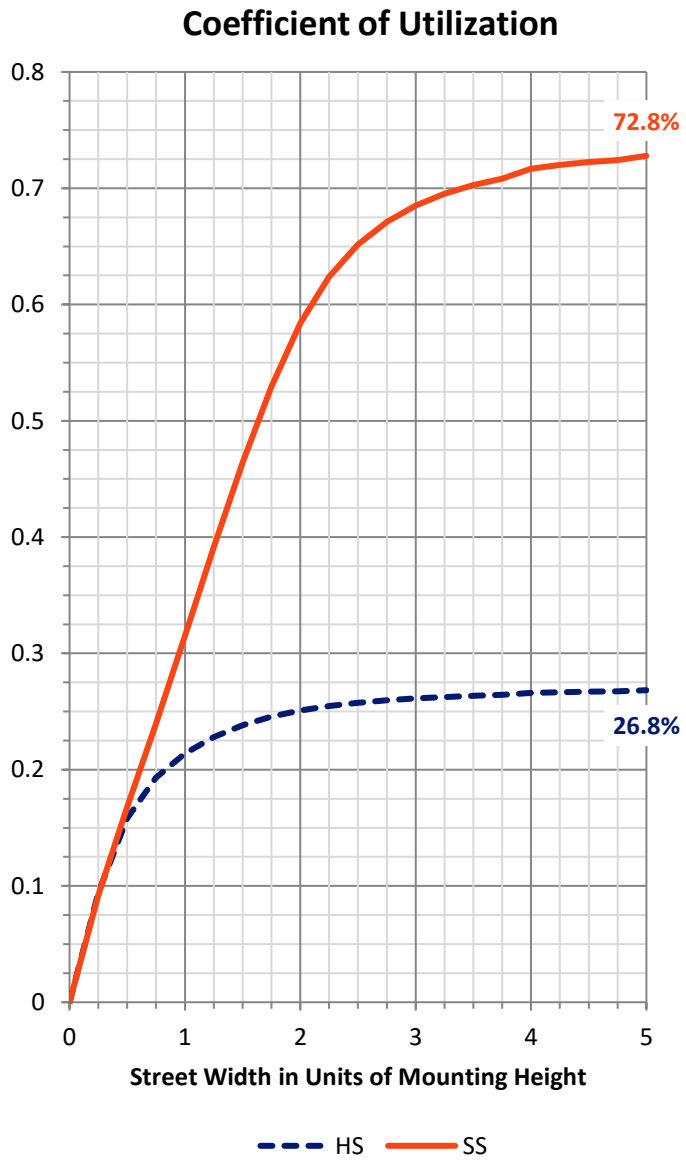
REPORT NUMBER: P1704733
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3042.7	0.0	3042.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	8193.4	0.0	8193.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	11236.1	0.0	11236.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	1.6
10°-20°	511.6	4.6
20°-30°	776.7	6.9
30°-40°	944.0	8.4
40°-50°	1318.6	11.7
50°-60°	2329.9	20.7
60°-70°	3265.5	29.1
70°-80°	1722.1	15.3
80°-90°	190.5	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°	11236.1	100.0
0°-180°	11236.1	100.0



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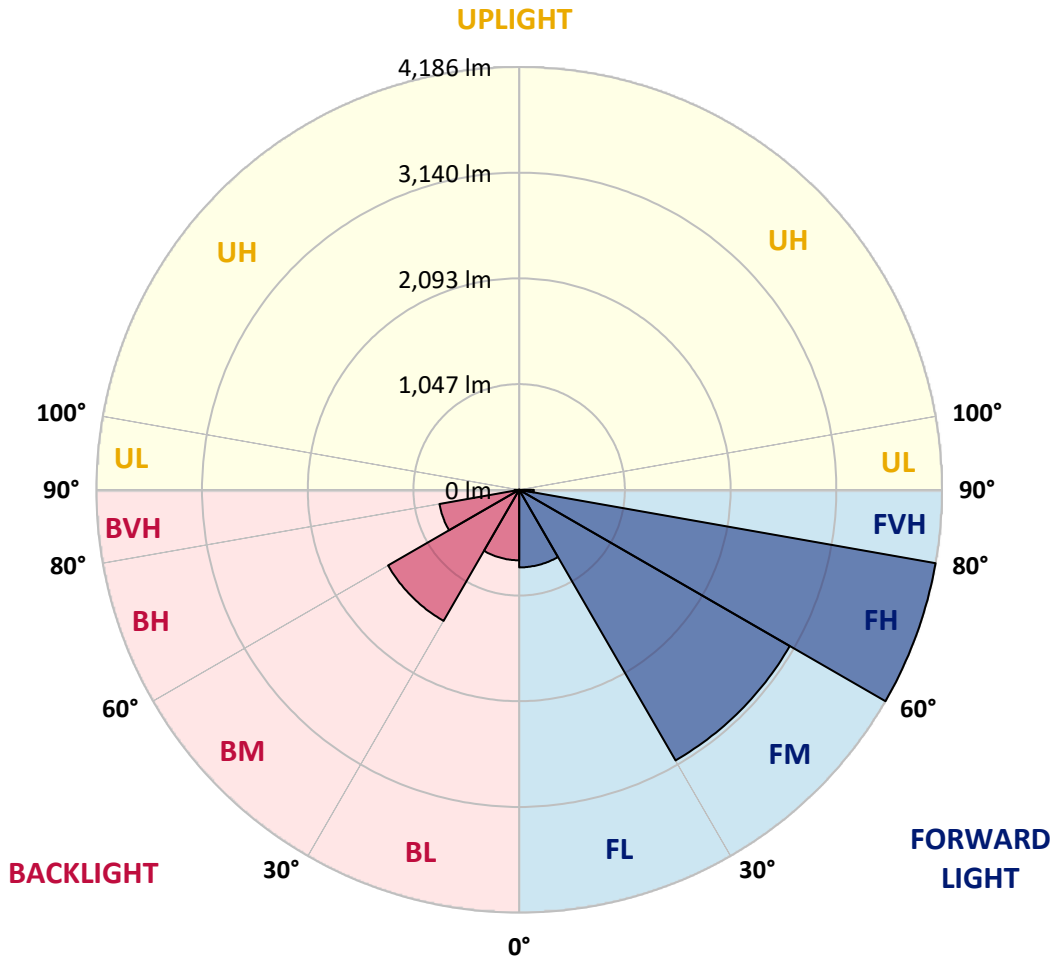
Scaled Data Report

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CATALOG NUMBER: GSS-SB6A-AMB-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	768.1	6.8			
FM	(30°-60°)	3093.5	27.5			
FH	(60°-80°)	4186.2	37.3			G2/5000
FVH	(80°-90°)	145.5	1.3			G2/225
BL	(0°-30°)	697.5	6.2	B2/1000		
BM	(30°-60°)	1498.9	13.3	B2/2500		
BH	(60°-80°)	801.3	7.1	B2/1000		G2/1000
BVH	(80°-90°)	44.9	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°	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	*1894.2*	1894.2	1894.2	1894.2	1894.2
2.5°	2007.5	2029.1	2034.5	2039.9	2039.9	2066.9	*2072.3*	2066.9	2061.5	2056.1	2050.7
5°	2131.7	2137.0	2147.8	2201.8	2223.4	2250.4	*2261.2*	2277.4	2261.2	2239.6	2201.8
7.5°	2196.4	2218.0	2245.0	2272.0	2272.0	2293.5	*2293.5*	2298.9	2304.3	2304.3	2293.5
10°	2234.2	2239.6	2266.6	2255.8	2234.2	2201.8	*2180.2*	2180.2	2212.6	2239.6	2282.8
12.5°	2245.0	2245.0	2250.4	2207.2	2104.7	2050.7	*1996.7*	2007.5	2045.3	2110.1	2207.2
15°	2228.8	2223.4	2212.6	2083.1	1948.2	1851.0	*1818.6*	1829.4	1861.8	1959.0	2120.9
17.5°	2218.0	2201.8	2142.4	1959.0	1802.5	1689.1	*1656.8*	1651.4	1710.7	1840.2	2023.7
20°	2201.8	2174.8	2072.3	1840.2	1662.1	1559.6	*1511.0*	1516.4	1575.8	1716.1	1942.8
22.5°	2180.2	2142.4	2023.7	1737.7	1543.4	1435.5	*1386.9*	1386.9	1473.3	1635.2	1883.4
25°	2185.6	2137.0	1985.9	1662.1	1473.3	1343.7	*1284.4*	1284.4	1381.5	1559.6	1834.8
27.5°	2174.8	2137.0	1969.8	1635.2	1408.5	1284.4	*1203.4*	1214.2	1306.0	1511.0	1797.1
30°	2201.8	2147.8	1953.6	1597.4	1381.5	1235.8	*1149.5*	1165.7	1262.8	1478.7	1770.1
32.5°	2255.8	2201.8	1964.4	1597.4	1376.1	1219.6	*1117.1*	1144.1	1252.0	1467.9	1770.1
35°	2336.7	2255.8	1985.9	1635.2	1397.7	1241.2	*1144.1*	1154.9	1273.6	1473.3	1786.3
37.5°	2466.2	2363.7	2072.3	1689.1	1473.3	1338.4	*1246.6*	1235.8	1338.4	1500.3	1818.6
40°	2617.3	2514.8	2185.6	1807.9	1640.6	1613.6	*1543.4*	1462.5	1489.5	1602.8	1905.0
42.5°	2838.6	2703.7	2358.3	2012.9	1959.0	2083.1	*2153.2*	1959.0	1786.3	1753.9	2023.7
45°	3130.0	3005.9	2633.5	2315.1	2487.8	2854.8	*2978.9*	2698.3	2298.9	2018.3	2212.6
47.5°	3653.5	3432.2	3027.5	2736.1	3097.6	3766.8	*3961.1*	3615.7	2946.5	2363.7	2433.9
50°	4425.2	4214.7	3475.4	3200.2	3761.4	4754.4	*5078.2*	4662.6	3653.5	2844.0	2746.9
52.5°	5785.1	5450.6	4268.7	3631.9	4403.6	5812.1	*6443.5*	5763.6	4419.8	3297.3	3211.0
55°	7620.0	7274.6	5876.9	4106.8	4970.3	6745.7	*7760.3*	7209.8	5142.9	3675.1	4166.2
57.5°	10048.4	9692.3	7835.8	4765.2	5380.4	7501.3	*8969.1*	8375.5	5790.5	4112.2	5671.8
60°	11770.0	11937.2	10604.3	5747.4	5952.4	8310.7	*10366.8*	9740.8	6481.3	4624.9	8013.9
62.5°	11257.3	11775.3	13146.1	8569.8	7328.6	9886.5	*12136.9*	11548.7	7771.1	6421.9	10215.7
65°	*9767.8*	*10231.9*	*11316.6*	*10280.5*	*8963.7*	*11732.2*	*13556.2*	*13140.7*	*9147.2*	*7441.9*	*9357.7*
67.5°	8154.2	8596.8	9800.2	7976.2	8364.7	11564.9	*13243.2*	12881.6	8607.6	6281.6	9012.3
70°	6238.5	6718.7	8008.5	6416.5	7220.6	10345.3	*10847.1*	11564.9	7895.2	5752.8	8467.2
72.5°	4328.1	4943.3	6330.2	5213.1	5596.3	9082.5	*7301.6*	9767.8	6848.3	5180.7	7700.9
75°	2730.7	3184.0	4355.0	4015.1	4490.0	5963.2	*5202.3*	6481.3	5677.2	4457.6	6373.4
77.5°	1316.8	1505.6	2369.1	2595.8	3124.6	3815.4	*3135.4*	4516.9	3961.1	2795.4	3858.6
80°	361.6	415.5	609.8	1020.0	1467.9	2358.3	*1996.7*	2396.1	2147.8	1592.0	2050.7
82.5°	140.3	156.5	178.1	404.7	690.8	1268.2	*755.5*	1122.5	1025.4	528.9	685.4
85°	54.0	59.4	70.2	91.7	367.0	474.9	*269.8*	345.4	469.5	156.5	161.9
87.5°	5.4	5.4	10.8	10.8	10.8	16.2	*32.4*	32.4	21.6	21.6	21.6
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°	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2
2.5°	2039.9	2029.1	1991.3	1969.8	1932.0	1888.8	1861.8	1813.3	1802.5	1764.7	1780.9
5°	2191.0	2153.2	2093.9	2018.3	1942.8	1856.4	1786.3	1710.7	1646.0	1586.6	1581.2
7.5°	2266.6	2245.0	2169.4	2072.3	1953.6	1824.0	1737.7	1613.6	1538.0	1473.3	1457.1
10°	2282.8	2266.6	2196.4	2099.3	1985.9	1851.0	1726.9	1586.6	1473.3	1397.7	1370.7
12.5°	2223.4	2255.8	2207.2	2115.5	1991.3	1888.8	1775.5	1656.8	1511.0	1392.3	1349.1
15°	2174.8	2223.4	2223.4	2115.5	2002.1	1905.0	1834.8	1759.3	1656.8	1494.9	1424.7
17.5°	2131.7	2212.6	2261.2	2142.4	2012.9	1894.2	1851.0	1883.4	1872.6	1694.5	1570.4
20°	2093.9	2212.6	2277.4	2158.6	1980.5	1829.4	1802.5	1942.8	2072.3	1921.2	1743.1
22.5°	2045.3	2201.8	2320.5	2153.2	1921.2	1705.3	1721.5	1921.2	2088.5	2034.5	1872.6
25°	2018.3	2207.2	2358.3	2169.4	1813.3	1538.0	1602.8	1813.3	1969.8	1985.9	1840.2
27.5°	1991.3	2234.2	2439.3	2169.4	1699.9	1424.7	1516.4	1651.4	1791.7	1818.6	1705.3
30°	2007.5	2261.2	2531.0	2185.6	1586.6	1354.5	1435.5	1532.6	1608.2	1597.4	1511.0
32.5°	2018.3	2347.5	2698.3	2228.8	1467.9	1316.8	1376.1	1440.9	1451.7	1430.1	1343.7
35°	2050.7	2450.0	2827.8	2298.9	1403.1	1273.6	1316.8	1327.6	1333.0	1300.6	1241.2
37.5°	2104.7	2552.6	2962.7	2277.4	1408.5	1252.0	1235.8	1219.6	1198.0	1198.0	1144.1
40°	2207.2	2714.5	3103.0	2196.4	1397.7	1219.6	1138.7	1106.3	1079.3	1084.7	1057.7
42.5°	2363.7	2941.1	3275.7	2034.5	1354.5	1187.2	1052.3	993.0	966.0	982.2	998.4
45°	2558.0	3200.2	3470.0	1856.4	1252.0	1133.3	960.6	906.6	879.6	895.8	928.2
47.5°	2790.0	3545.6	3621.1	1619.0	1144.1	1036.1	874.2	814.9	793.3	836.5	879.6
50°	3167.8	4106.8	3810.0	1424.7	1046.9	928.2	782.5	733.9	744.7	798.7	841.9
52.5°	3977.3	5223.9	4144.6	1252.0	998.4	798.7	685.4	674.6	712.3	777.1	814.9
55°	5348.0	6637.8	4349.6	1171.1	944.4	723.1	609.8	647.6	685.4	760.9	804.1
57.5°	7490.5	7997.7	4031.2	1100.9	917.4	712.3	566.6	626.0	674.6	750.1	787.9
60°	9805.6	8634.5	3389.1	1009.2	901.2	744.7	539.7	582.8	653.0	723.1	766.3
62.5°	10221.1	8326.9	2460.8	901.2	841.9	760.9	534.3	539.7	593.6	669.2	707.0
65°	*9686.9*	*7387.9*	*1548.8*	*771.7*	*755.5*	*744.7*	*545.1*	*469.5*	*539.7*	*599.0*	*626.0*
67.5°	8926.0	5920.1	906.6	609.8	669.2	690.8	534.3	426.3	485.7	528.9	550.5
70°	7970.8	4554.7	620.6	453.3	539.7	604.4	491.1	383.2	431.7	474.9	485.7
72.5°	6486.7	3092.2	431.7	356.2	437.1	453.3	426.3	356.2	383.2	420.9	431.7
75°	4738.2	1856.4	280.6	280.6	296.8	361.6	350.8	313.0	329.2	367.0	377.8
77.5°	2585.0	782.5	183.5	205.1	194.3	296.8	280.6	253.6	253.6	291.4	302.2
80°	1322.2	394.0	129.5	124.1	129.5	221.3	210.5	167.3	183.5	205.1	215.9
82.5°	453.3	172.7	86.3	75.6	86.3	113.3	134.9	118.7	129.5	129.5	124.1
85°	134.9	75.6	48.6	43.2	43.2	48.6	86.3	64.8	64.8	48.6	54.0
87.5°	21.6	21.6	21.6	21.6	21.6	21.6	27.0	27.0	27.0	27.0	27.0
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°	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2
2.5°	1748.5	1737.7	1732.3	1710.7	1710.7	1726.9	1716.1	1732.3	1764.7	1775.5	1780.9
5°	1565.0	1554.2	1527.2	1521.8	1516.4	1521.8	1543.4	1559.6	1602.8	1629.8	1640.6
7.5°	1435.5	1408.5	1381.5	1386.9	1386.9	1392.3	1408.5	1440.9	1484.1	1516.4	1548.8
10°	1338.4	1311.4	1306.0	1300.6	1311.4	1327.6	1354.5	1376.1	1440.9	1484.1	1521.8
12.5°	1322.2	1289.8	1284.4	1279.0	1300.6	1311.4	1343.7	1381.5	1467.9	1516.4	1559.6
15°	1365.3	1311.4	1306.0	1311.4	1311.4	1349.1	1381.5	1451.7	1565.0	1640.6	1737.7
17.5°	1473.3	1354.5	1338.4	1333.0	1349.1	1386.9	1424.7	1527.2	1716.1	1861.8	1975.2
20°	1575.8	1397.7	1349.1	1338.4	1343.7	1386.9	1446.3	1586.6	1883.4	2045.3	2110.1
22.5°	1646.0	1403.1	1338.4	1322.2	1327.6	1359.9	1419.3	1602.8	1921.2	2029.1	2083.1
25°	1635.2	1365.3	1284.4	1257.4	1262.8	1295.2	1359.9	1543.4	1775.5	1888.8	1910.4
27.5°	1484.1	1289.8	1208.8	1181.9	1176.5	1219.6	1268.2	1386.9	1597.4	1710.7	1732.3
30°	1343.7	1154.9	1117.1	1084.7	1090.1	1122.5	1144.1	1241.2	1462.5	1548.8	1548.8
32.5°	1203.4	1063.1	1025.4	1003.8	1003.8	1025.4	1046.9	1144.1	1322.2	1392.3	1419.3
35°	1133.3	1014.6	971.4	928.2	922.8	955.2	1009.2	1095.5	1230.4	1284.4	1279.0
37.5°	1084.7	993.0	922.8	874.2	858.1	906.6	987.6	1057.7	1144.1	1160.3	1165.7
40°	1041.5	971.4	901.2	836.5	825.7	879.6	960.6	1030.7	1068.5	1063.1	1052.3
42.5°	993.0	960.6	874.2	809.5	798.7	847.3	928.2	982.2	971.4	966.0	944.4
45°	944.4	917.4	831.1	771.7	760.9	804.1	874.2	928.2	917.4	879.6	847.3
47.5°	895.8	879.6	814.9	750.1	739.3	793.3	852.7	901.2	874.2	841.9	809.5
50°	863.5	868.9	820.3	777.1	760.9	809.5	863.5	890.4	847.3	809.5	777.1
52.5°	847.3	879.6	841.9	798.7	793.3	831.1	868.9	879.6	820.3	782.5	750.1
55°	847.3	885.0	858.1	814.9	820.3	836.5	858.1	868.9	798.7	755.5	723.1
57.5°	836.5	879.6	841.9	825.7	825.7	825.7	852.7	847.3	777.1	733.9	701.6
60°	809.5	841.9	820.3	798.7	793.3	809.5	831.1	809.5	739.3	696.2	663.8
62.5°	739.3	782.5	777.1	755.5	739.3	760.9	782.5	755.5	685.4	647.6	631.4
65°	*653.0*	*690.8*	*701.6*	*674.6*	*669.2*	*707.0*	*701.6*	*680.0*	*626.0*	*599.0*	*582.8*
67.5°	566.6	604.4	604.4	599.0	604.4	609.8	626.0	604.4	561.2	545.1	534.3
70°	507.3	534.3	528.9	507.3	507.3	539.7	555.8	555.8	523.5	501.9	496.5
72.5°	442.5	464.1	453.3	437.1	404.7	469.5	496.5	501.9	469.5	453.3	442.5
75°	388.6	404.7	394.0	334.6	334.6	377.8	437.1	431.7	399.3	383.2	377.8
77.5°	318.4	329.2	318.4	269.8	264.4	302.2	350.8	350.8	340.0	318.4	313.0
80°	221.3	242.8	221.3	194.3	188.9	221.3	264.4	269.8	248.2	237.4	232.1
82.5°	134.9	156.5	145.7	118.7	118.7	151.1	167.3	172.7	140.3	124.1	129.5
85°	54.0	64.8	70.2	64.8	48.6	59.4	75.6	64.8	59.4	59.4	59.4
87.5°	27.0	21.6	21.6	16.2	16.2	16.2	16.2	21.6	27.0	27.0	32.4
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: P1704733
CATALOG NUMBER: GSS-SB6A-AMB-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2
2.5°	1802.5	1818.6	1851.0	1883.4	1926.6	1937.4	1975.2	1991.3	2002.1	2007.5
5°	1699.9	1748.5	1807.9	1867.2	1932.0	1991.3	2050.7	2104.7	2120.9	2131.7
7.5°	1635.2	1705.3	1775.5	1861.8	1932.0	1991.3	2104.7	2164.0	2191.0	2196.4
10°	1624.4	1721.5	1807.9	1878.0	1942.8	2012.9	2110.1	2201.8	2223.4	2234.2
12.5°	1689.1	1797.1	1851.0	1905.0	1964.4	2007.5	2126.3	2223.4	2245.0	2245.0
15°	1845.6	1861.8	1872.6	1894.2	1953.6	2029.1	2142.4	2218.0	2234.2	2228.8
17.5°	2039.9	1905.0	1802.5	1834.8	1942.8	2029.1	2158.6	2228.8	2218.0	2218.0
20°	2061.5	1861.8	1699.9	1716.1	1872.6	2029.1	2180.2	2234.2	2212.6	2201.8
22.5°	1964.4	1786.3	1608.2	1570.4	1786.3	2045.3	2223.4	2261.2	2196.4	2180.2
25°	1829.4	1683.7	1548.8	1457.1	1694.5	2045.3	2288.2	2298.9	2212.6	2185.6
27.5°	1683.7	1597.4	1484.1	1386.9	1597.4	2083.1	2406.9	2358.3	2223.4	2174.8
30°	1538.0	1489.5	1424.7	1338.4	1521.8	2153.2	2547.2	2466.2	2266.6	2201.8
32.5°	1413.9	1403.1	1354.5	1306.0	1473.3	2234.2	2709.1	2585.0	2325.9	2255.8
35°	1279.0	1289.8	1273.6	1284.4	1457.1	2277.4	2876.4	2752.3	2444.7	2336.7
37.5°	1171.1	1187.2	1192.6	1284.4	1440.9	2255.8	3011.3	2930.3	2552.6	2466.2
40°	1068.5	1090.1	1133.3	1284.4	1386.9	2137.0	3194.8	3140.8	2736.1	2617.3
42.5°	960.6	993.0	1063.1	1257.4	1300.6	1980.5	3389.1	3443.0	2968.1	2838.6
45°	868.9	901.2	987.6	1133.3	1203.4	1807.9	3577.9	3847.8	3297.3	3130.0
47.5°	777.1	809.5	901.2	1014.6	1106.3	1624.4	3864.0	4446.8	3793.8	3653.5
50°	733.9	723.1	782.5	901.2	1079.3	1489.5	4349.6	5310.2	4646.5	4425.2
52.5°	707.0	685.4	680.0	804.1	1057.7	1408.5	4835.3	6821.3	5963.2	5785.1
55°	685.4	658.4	631.4	793.3	1025.4	1295.2	4975.7	8488.8	8057.1	7620.0
57.5°	669.2	636.8	604.4	836.5	1020.0	1149.5	4479.2	9541.2	10156.4	10048.4
60°	626.0	604.4	599.0	852.7	976.8	998.4	3437.6	9476.4	11618.8	11770.0
62.5°	593.6	550.5	626.0	858.1	868.9	831.1	2207.2	8251.4	10777.0	11257.3
65°	*555.8*	*496.5*	*658.4*	*814.9*	*733.9*	*663.8*	*1127.9*	*6513.7*	*9055.5*	*9767.8*
67.5°	507.3	453.3	663.8	707.0	609.8	485.7	717.7	4986.4	7673.9	8154.2
70°	469.5	431.7	572.0	588.2	474.9	377.8	442.5	3200.2	5693.4	6238.5
72.5°	420.9	404.7	501.9	431.7	361.6	291.4	286.0	1656.8	3923.3	4328.1
75°	350.8	361.6	431.7	361.6	242.8	226.7	205.1	798.7	2261.2	2730.7
77.5°	291.4	280.6	350.8	280.6	183.5	156.5	151.1	329.2	1122.5	1316.8
80°	215.9	205.1	259.0	194.3	118.7	97.1	102.5	178.1	269.8	361.6
82.5°	145.7	140.3	178.1	97.1	70.2	59.4	64.8	97.1	134.9	140.3
85°	64.8	70.2	80.9	48.6	32.4	27.0	27.0	37.8	48.6	54.0
87.5°	32.4	27.0	21.6	16.2	10.8	10.8	5.4	5.4	5.4	5.4
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: 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

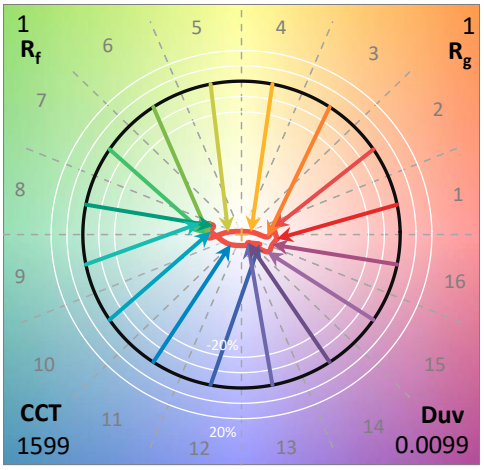
Test Information

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

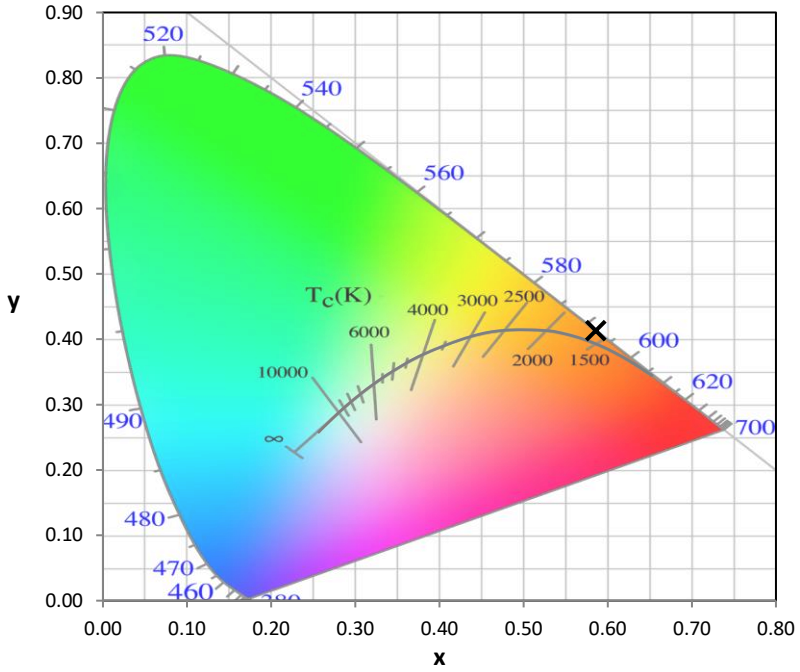
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

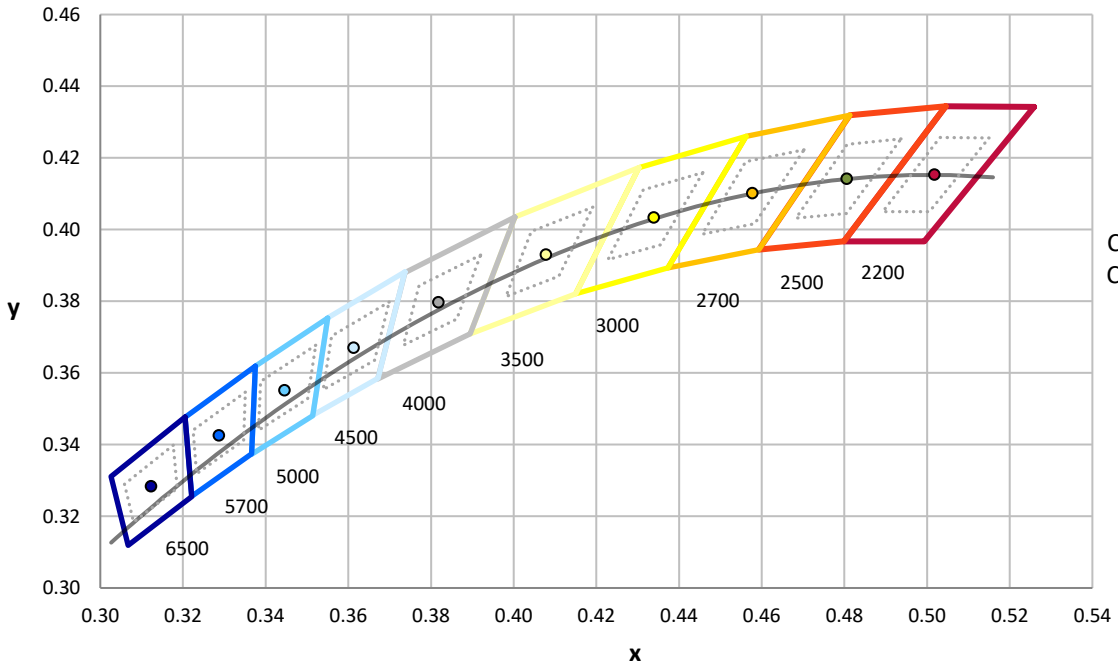
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

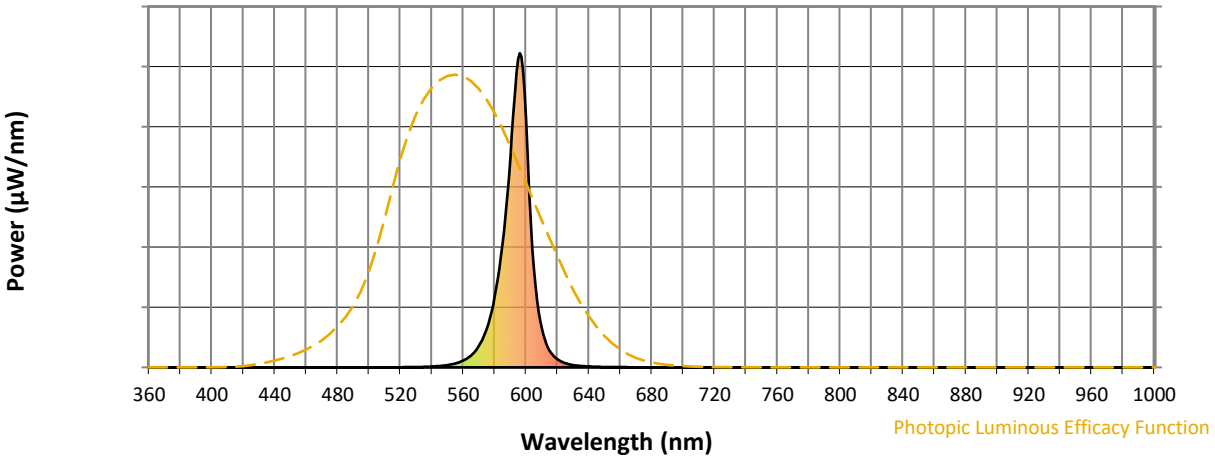


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

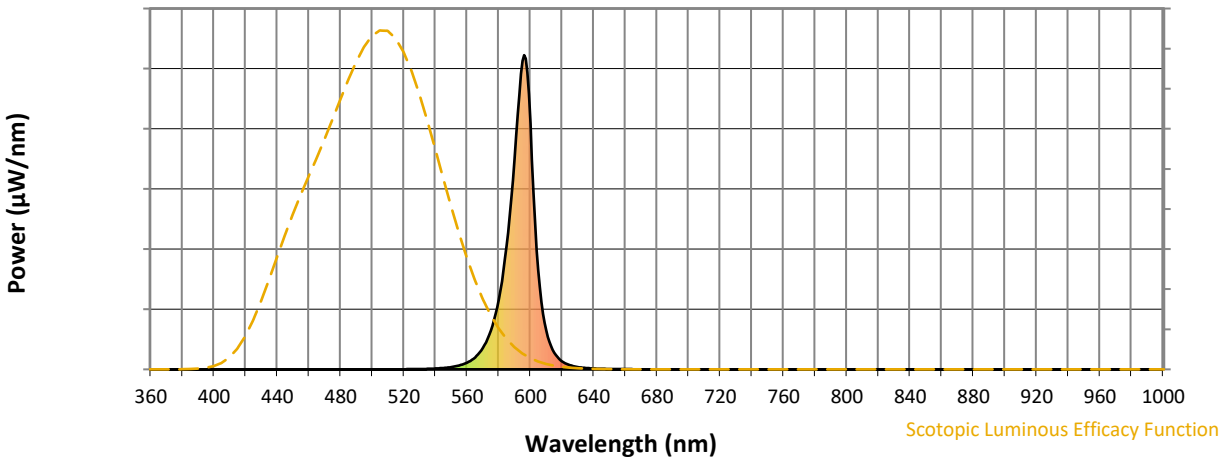


Photopic Lumens: NR

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

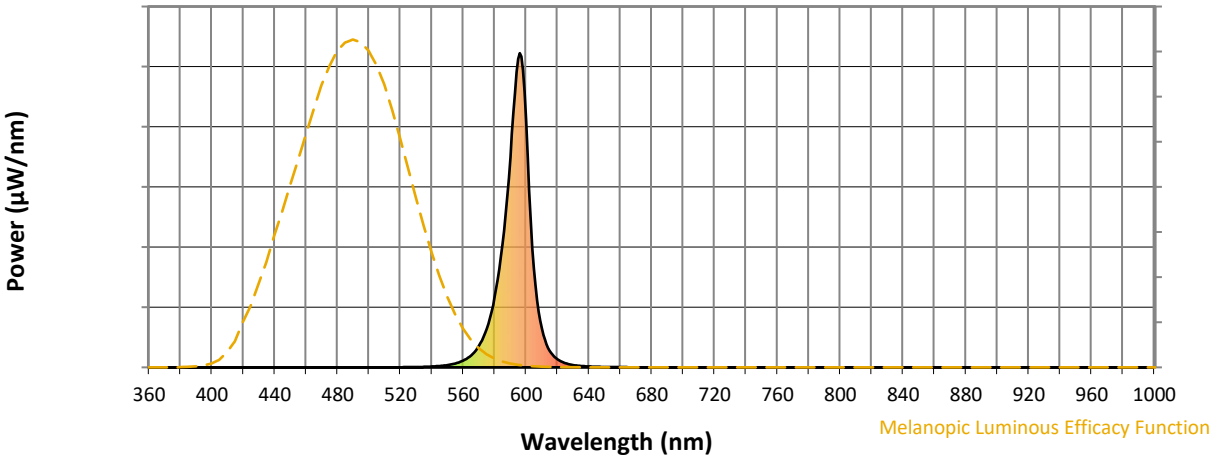


Scotopic Lumens: NR **S/P: 0.23**

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
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485	0	NR	615	53	NR	745	0	NR	875	0	NR			

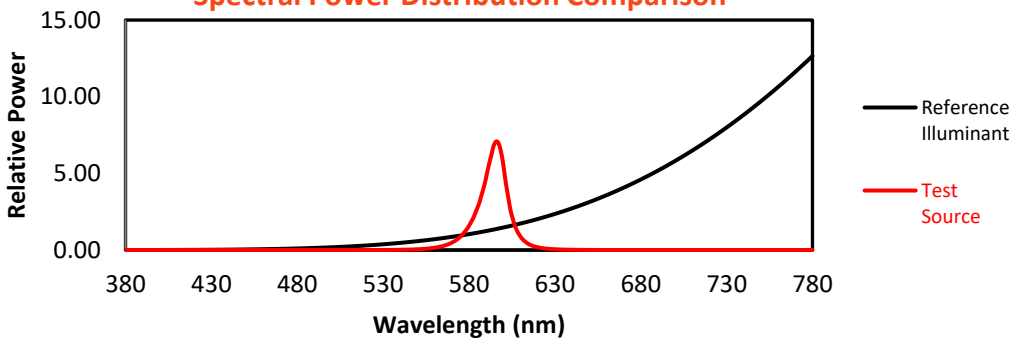
REPORT NUMBER: SP3-2509-541-1

TM-30-18

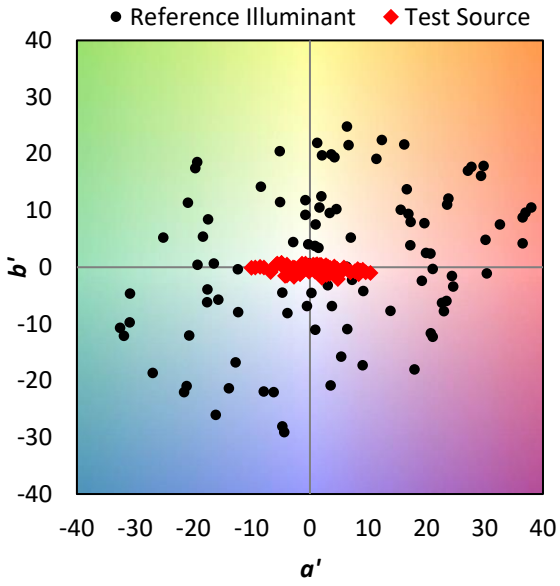
Summary

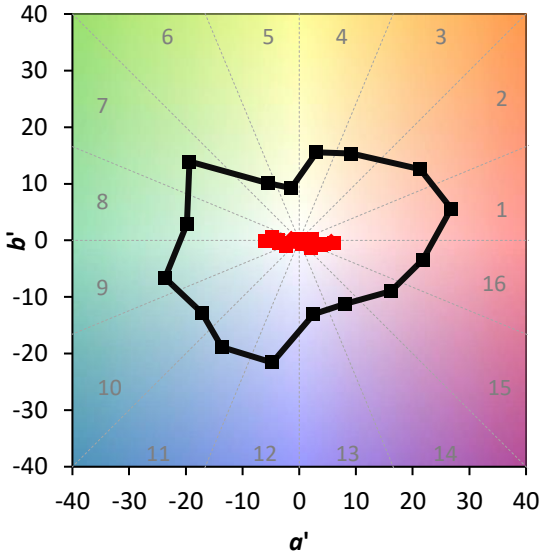
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

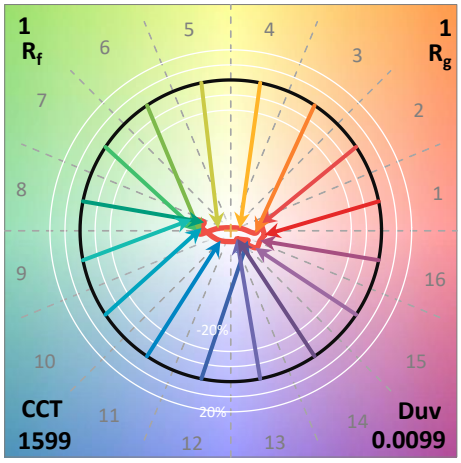
Spectral Power Distribution Comparison

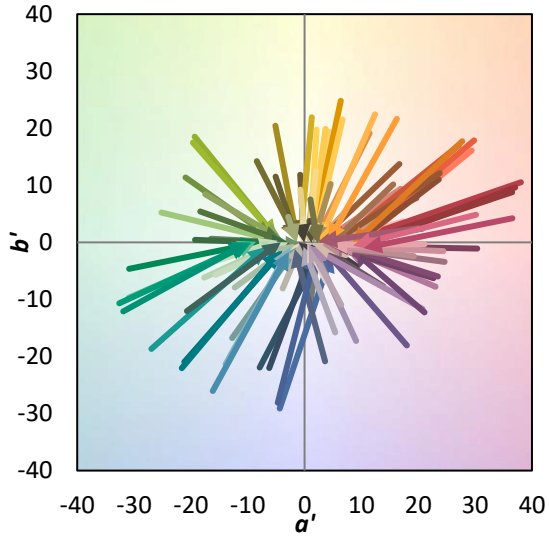


Color Vector Graphics







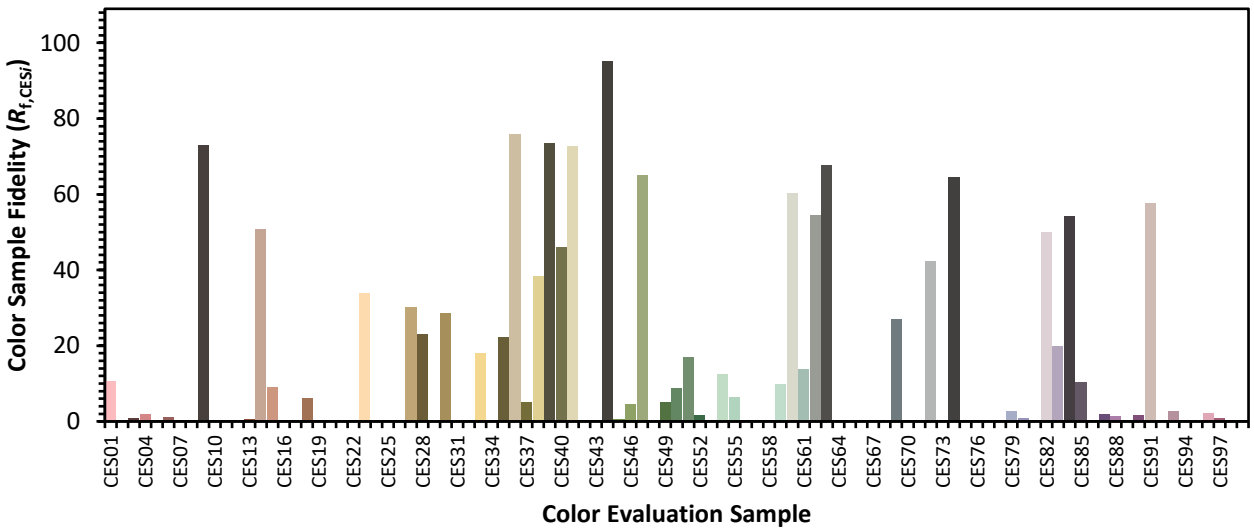


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Individual Sample Fidelity Index ($R_{f,i}$)

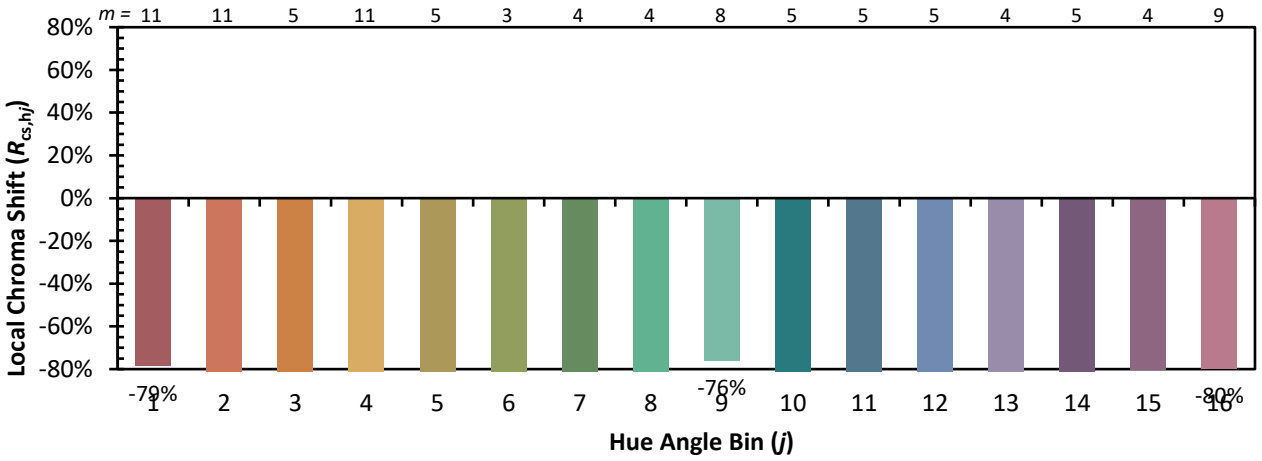
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CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 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	

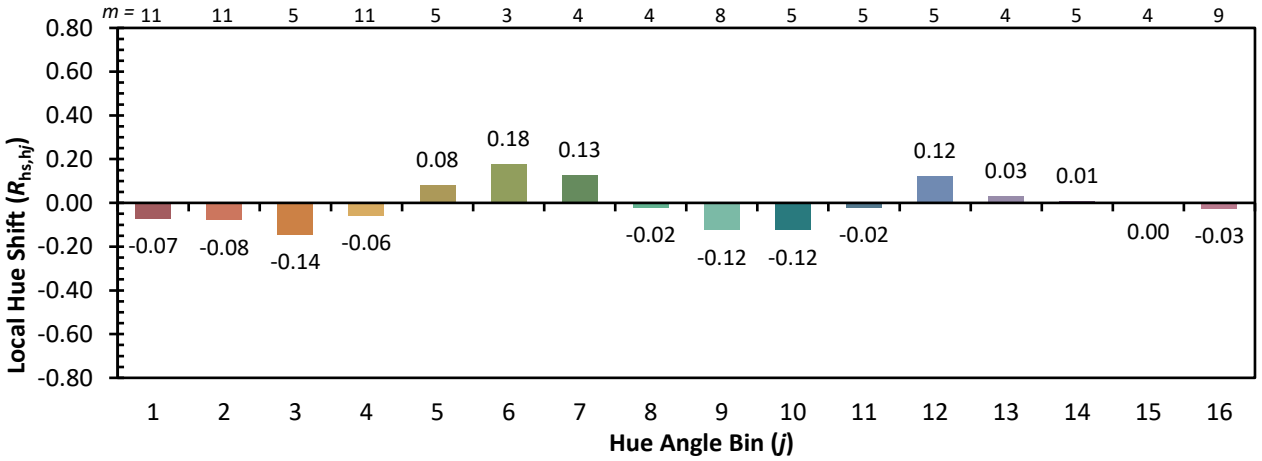


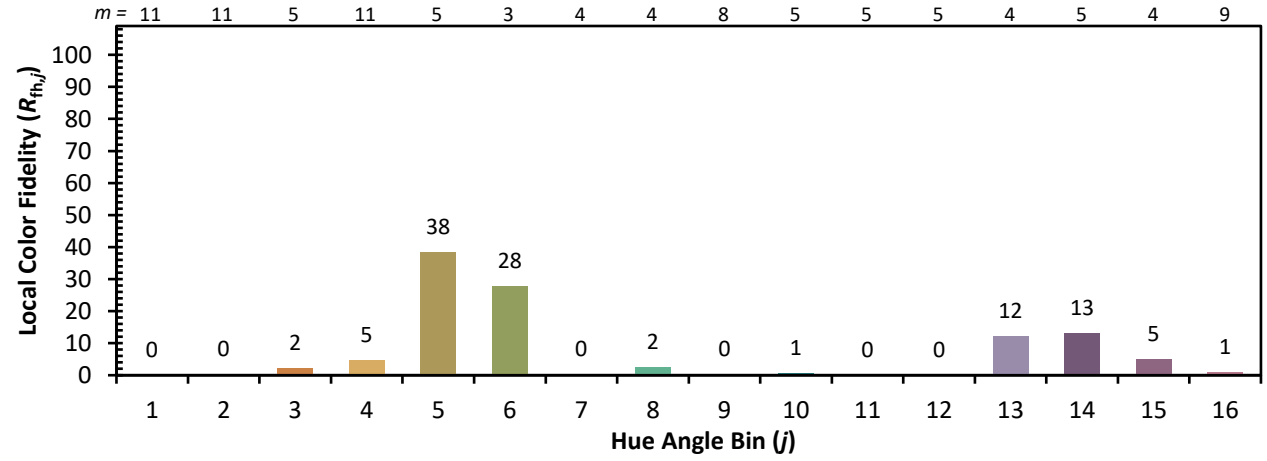
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Color Rendition by Hue-Angle Bin



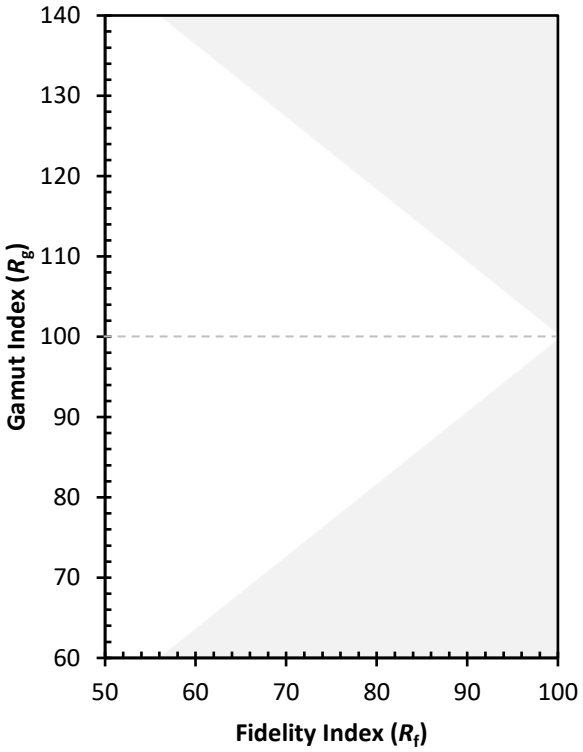


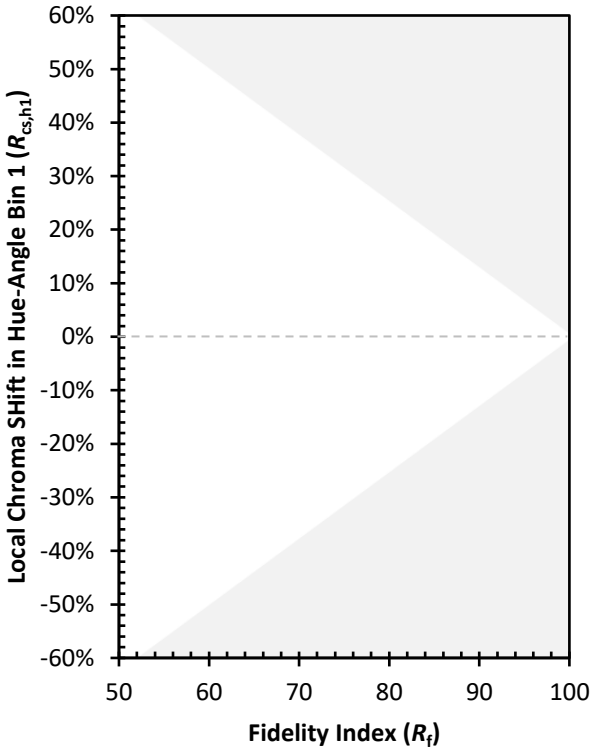


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Measure Comparisons





(END OF REPORT)