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-HSS

Issue Date: 10/28/2026

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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-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 6SQUARE 196W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(156) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8500.9 lumens
Efficiency:	N/A
Efficacy:	43.4 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

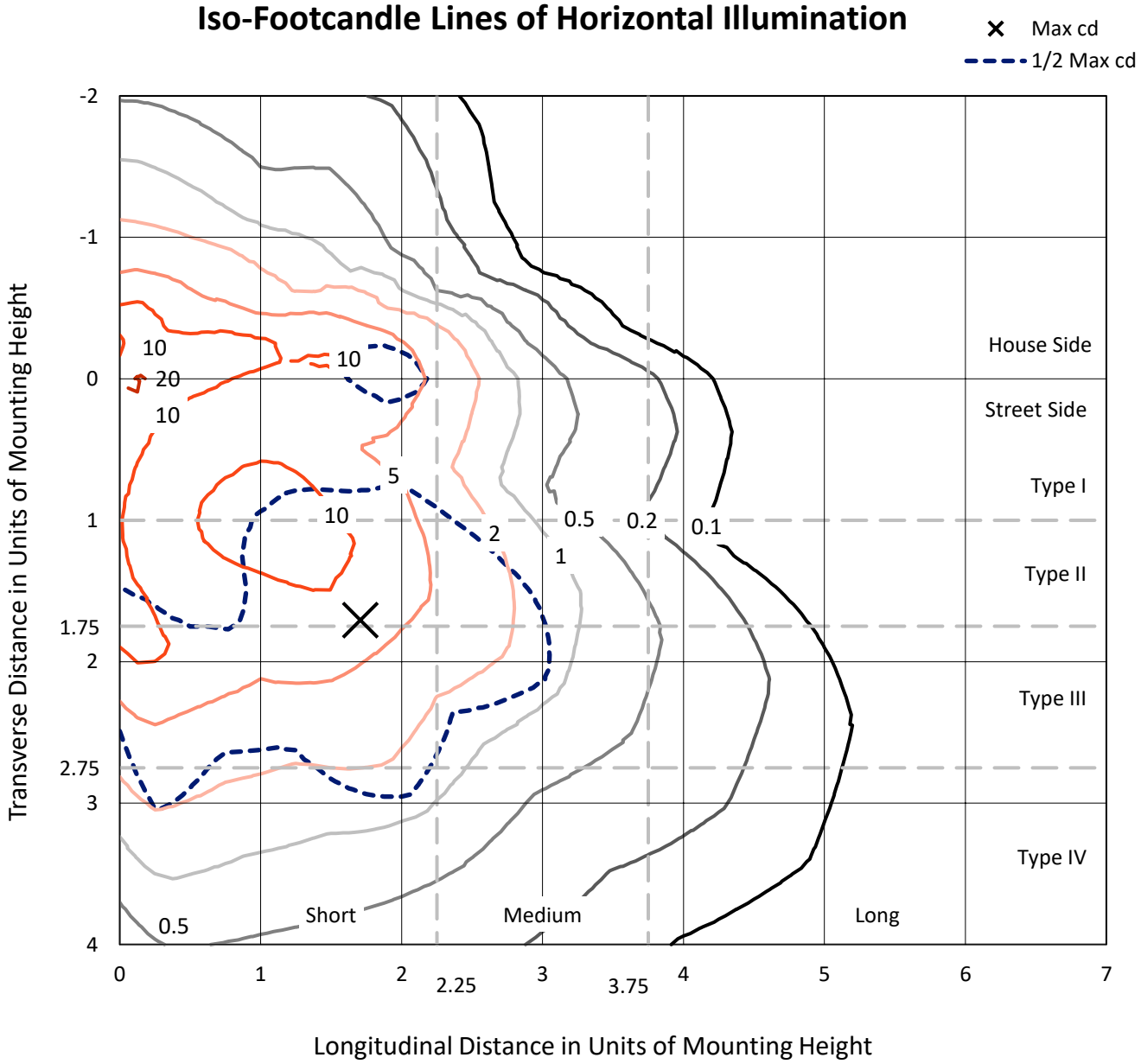


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Iso-Footcandle Lines of Horizontal Illumination



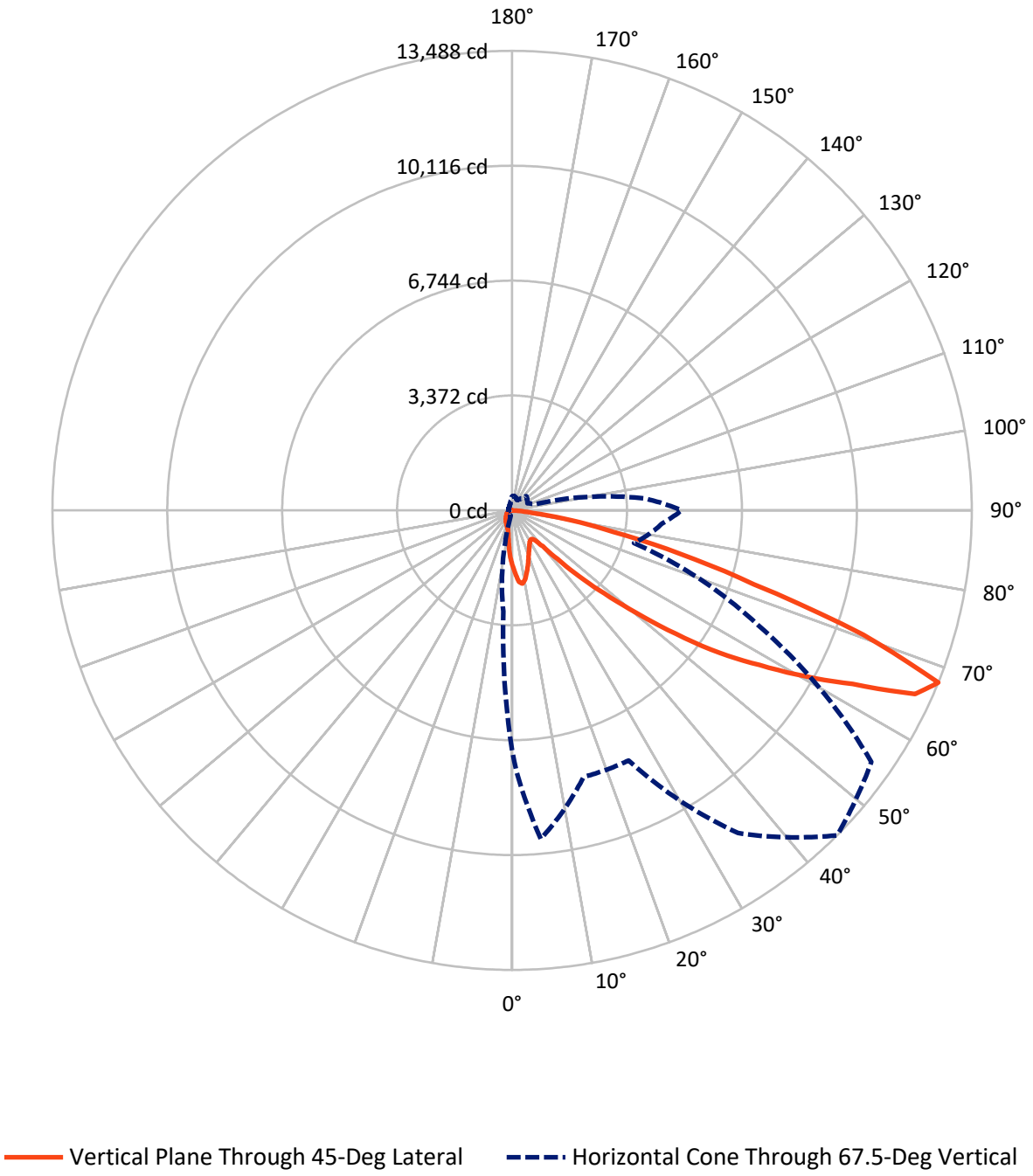
Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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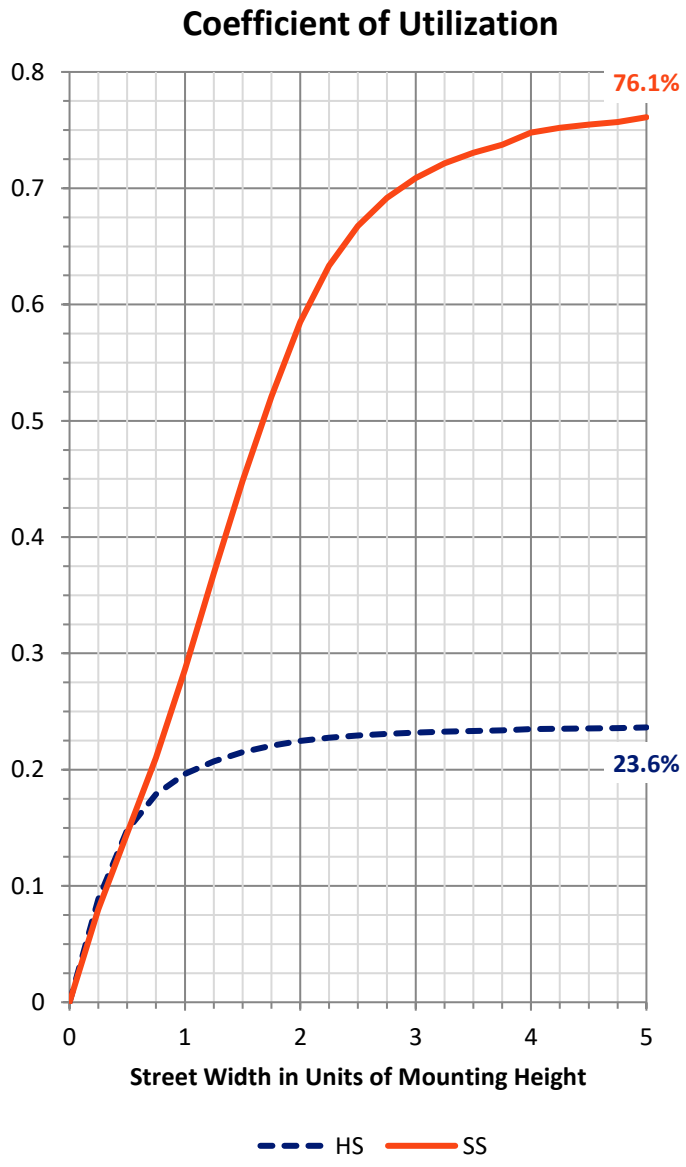
REPORT NUMBER: P1704733
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.5	0.0	2028.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6472.5	0.0	6472.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	8500.9	0.0	8500.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.7
10°-20°	369.6	4.3
20°-30°	523.8	6.2
30°-40°	640.3	7.5
40°-50°	963.9	11.3
50°-60°	1822.7	21.4
60°-70°	2641.0	31.1
70°-80°	1280.5	15.1
80°-90°	112.6	1.3
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°	8500.9	100.0
0°-180°	8500.9	100.0



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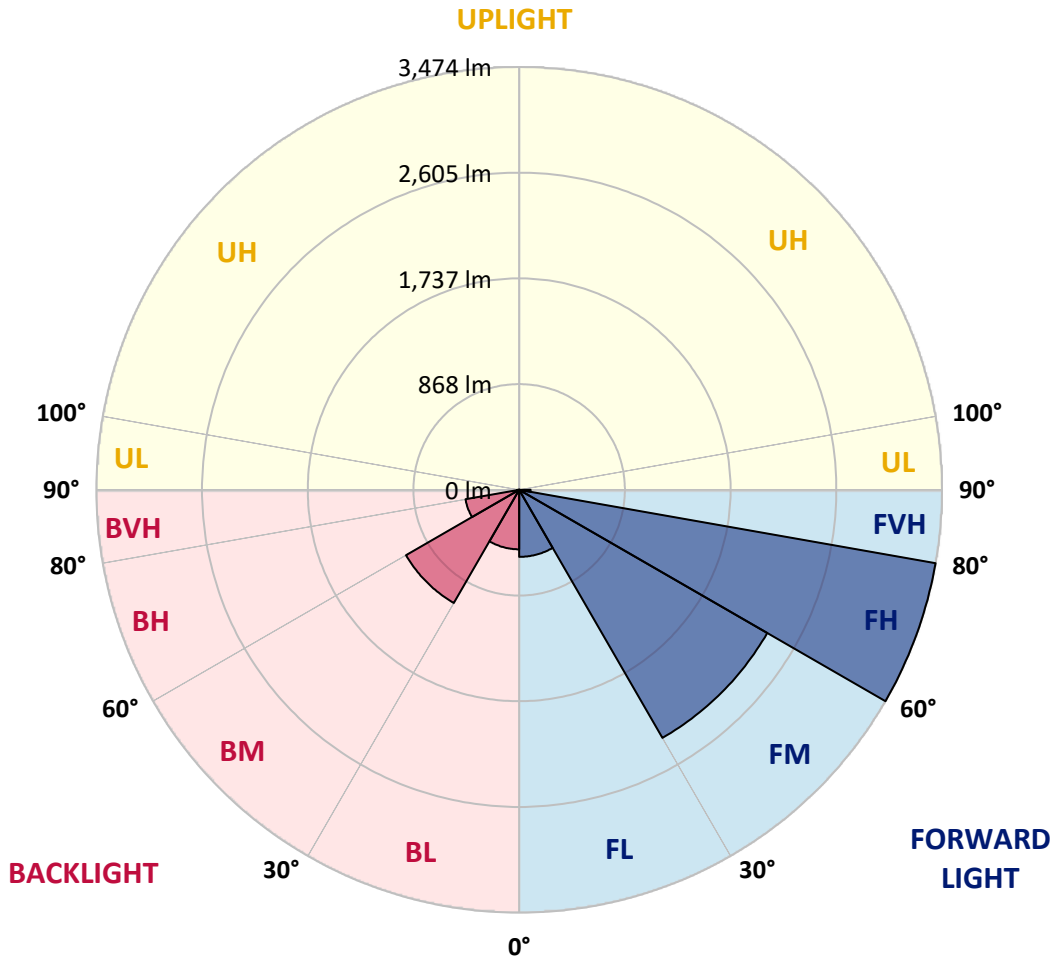
Scaled Data Report

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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°)	551.0	6.5			
FM	(30°-60°)	2353.5	27.7			
FH	(60°-80°)	3474.0	40.9			G2/5000
FVH	(80°-90°)	94.0	1.1			G1/100
BL	(0°-30°)	488.9	5.8	B1/500		
BM	(30°-60°)	1073.5	12.6	B2/2500		
BH	(60°-80°)	447.6	5.3	B1/500		G1/500
BVH	(80°-90°)	18.5	0.2			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°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	*1619.8*	1619.8	1619.8	1619.8	1619.8
2.5°	1765.6	1765.6	1792.6	1803.4	1825.0	1857.4	*1857.4*	1835.8	1857.4	1835.8	1835.8
5°	1927.6	1916.8	1965.4	2024.7	2040.9	2073.3	*2105.7*	2111.1	2094.9	2073.3	2046.3
7.5°	1997.7	1992.3	2046.3	2111.1	2143.5	2165.1	*2170.5*	2175.9	2181.3	2165.1	2154.3
10°	2040.9	2046.3	2084.1	2127.3	2111.1	2084.1	*2073.3*	2084.1	2105.7	2127.3	2165.1
12.5°	2057.1	2062.5	2094.9	2067.9	1981.5	1933.0	*1889.8*	1911.4	1943.8	2008.5	2116.5
15°	2062.5	2046.3	2062.5	1954.6	1830.4	1733.2	*1717.0*	1717.0	1771.0	1852.0	2024.7
17.5°	2051.7	2030.1	2013.9	1835.8	1679.2	1576.6	*1538.8*	1565.8	1614.4	1738.6	1943.8
20°	2035.5	2013.9	1970.7	1733.2	1544.2	1457.8	*1393.0*	1409.2	1468.6	1614.4	1857.4
22.5°	2024.7	1992.3	1911.4	1625.2	1447.0	1333.6	*1268.8*	1279.6	1366.0	1538.8	1787.2
25°	2013.9	1986.9	1862.8	1555.0	1366.0	1236.4	*1177.1*	1182.4	1279.6	1463.2	1754.8
27.5°	2019.3	1976.1	1835.8	1506.4	1301.2	1166.3	*1090.7*	1106.9	1209.4	1420.0	1717.0
30°	2057.1	1986.9	1825.0	1479.4	1274.2	1133.9	*1042.1*	1058.3	1160.9	1403.8	1700.8
32.5°	2084.1	2024.7	1830.4	1490.2	1263.4	1106.9	*1015.1*	1031.3	1150.1	1387.6	1695.4
35°	2165.1	2089.5	1857.4	1511.8	1301.2	1133.9	*1031.3*	1042.1	1171.7	1387.6	1711.6
37.5°	2256.9	2186.7	1938.4	1565.8	1366.0	1231.0	*1128.5*	1106.9	1220.2	1414.6	1749.4
40°	2386.5	2300.1	2051.7	1673.8	1495.6	1452.4	*1382.2*	1344.4	1344.4	1495.6	1825.0
42.5°	2591.7	2489.1	2208.3	1862.8	1803.4	1933.0	*1954.6*	1776.4	1641.4	1625.2	1916.8
45°	2899.4	2742.9	2440.5	2132.7	2278.5	2651.1	*2759.0*	2435.1	2051.7	1825.0	2073.3
47.5°	3272.0	3147.8	2737.5	2489.1	2856.2	3509.6	*3644.5*	3331.4	2683.5	2175.9	2262.3
50°	3990.1	3725.5	3164.0	2915.6	3461.0	4454.4	*4713.6*	4319.5	3336.8	2570.1	2489.1
52.5°	4924.2	4713.6	3925.3	3331.4	4027.9	5442.5	*6025.6*	5480.3	4038.7	2958.8	2780.6
55°	6128.2	5858.3	5053.8	3811.9	4524.6	6252.4	*7391.7*	6819.3	4697.4	3304.4	3428.6
57.5°	7845.2	7748.0	6873.3	4427.4	4843.2	6900.3	*8563.3*	8061.2	5329.1	3590.5	4578.6
60°	9934.7	10231.7	9432.6	5334.5	5167.1	7542.8	*9902.3*	9346.2	5879.9	3855.1	5831.3
62.5°	9913.1	10847.2	12607.4	8212.4	6176.8	8671.3	*11219.8*	10787.8	6716.7	4422.0	6705.9
65°	8385.1	9195.0	11084.8	10652.8	8568.7	11149.6	*12996.1*	12596.6	8207.0	4924.2	5852.9
67.5°	*7029.9*	*7699.4*	*9681.0*	*8099.0*	*8099.0*	*11559.9*	*13487.5*	*12866.6*	*7953.2*	*3703.9*	*4422.0*
70°	5550.5	6230.8	7996.4	6608.8	7035.3	10501.7	*10928.2*	11592.3	7229.7	2559.3	2985.8
72.5°	4065.7	4659.6	6371.2	5388.5	5717.9	9297.6	*7424.1*	9842.9	6112.0	1582.0	2089.5
75°	2742.9	3093.8	4557.0	4324.9	4627.2	5928.4	*5102.4*	6484.6	5091.6	1285.0	1733.2
77.5°	1382.2	1663.0	2532.3	2802.2	3218.0	3131.6	*3029.0*	4427.4	3774.1	691.1	728.9
80°	270.0	334.8	583.1	1042.1	1306.6	1706.2	*1771.0*	2472.9	2035.5	383.4	431.9
82.5°	108.0	118.8	145.8	356.4	367.2	723.5	*626.3*	1101.5	836.9	189.0	140.4
85°	37.8	43.2	54.0	70.2	194.4	307.8	*205.2*	172.8	199.8	54.0	32.4
87.5°	0.0	0.0	5.4	5.4	5.4	10.8	*16.2*	16.2	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1803.4	1787.2	1760.2	1717.0	1679.2	1625.2	1598.2	1544.2	1517.2	1479.4	1463.2
5°	2024.7	1981.5	1900.6	1814.2	1711.6	1619.8	1522.6	1436.2	1355.2	1279.6	1236.4
7.5°	2127.3	2094.9	2008.5	1879.0	1749.4	1619.8	1479.4	1349.8	1220.2	1112.3	1058.3
10°	2165.1	2138.1	2046.3	1911.4	1776.4	1630.6	1479.4	1317.4	1171.7	1020.5	950.3
12.5°	2132.7	2121.9	2062.5	1927.6	1787.2	1673.8	1544.2	1393.0	1209.4	1015.1	912.5
15°	2084.1	2116.5	2094.9	1943.8	1808.8	1700.8	1619.8	1533.4	1371.4	1123.1	988.1
17.5°	2040.9	2116.5	2116.5	1970.7	1830.4	1695.4	1652.2	1663.0	1657.6	1349.8	1144.7
20°	1997.7	2105.7	2159.7	1992.3	1814.2	1652.2	1641.4	1771.0	1862.8	1625.2	1349.8
22.5°	1970.7	2116.5	2192.1	2003.1	1749.4	1528.0	1565.8	1754.8	1911.4	1792.6	1506.4
25°	1927.6	2138.1	2224.5	2003.1	1657.6	1382.2	1447.0	1636.0	1776.4	1771.0	1560.4
27.5°	1916.8	2154.3	2300.1	1997.7	1517.2	1252.6	1355.2	1474.0	1592.8	1592.8	1441.6
30°	1927.6	2197.5	2375.7	2003.1	1393.0	1198.6	1285.0	1371.4	1430.8	1387.6	1263.4
32.5°	1943.8	2267.7	2553.9	2035.5	1290.4	1166.3	1236.4	1268.8	1290.4	1231.0	1128.5
35°	1981.5	2370.3	2667.3	2121.9	1225.6	1139.3	1182.4	1177.1	1171.7	1128.5	1036.7
37.5°	2040.9	2510.7	2818.4	2138.1	1236.4	1101.5	1106.9	1079.9	1047.5	1020.5	961.1
40°	2138.1	2629.5	2958.8	2084.1	1279.6	1074.5	1015.1	966.5	928.7	923.3	885.5
42.5°	2267.7	2834.6	3104.6	1895.2	1263.4	1052.9	923.3	863.9	820.7	820.7	809.9
45°	2445.9	3110.0	3218.0	1690.0	1177.1	1025.9	842.3	766.7	734.3	728.9	745.1
47.5°	2618.7	3369.2	3390.8	1452.4	1036.7	955.7	761.3	691.1	658.7	680.3	696.5
50°	2856.2	3736.3	3477.2	1236.4	917.9	836.9	680.3	610.1	610.1	642.5	653.3
52.5°	3261.2	4438.2	3617.5	1063.7	863.9	701.9	583.1	561.5	583.1	626.3	631.7
55°	4324.9	5647.7	3833.5	977.3	815.3	588.5	518.3	534.5	572.3	620.9	626.3
57.5°	6149.8	6894.9	3774.1	923.3	772.1	566.9	469.7	518.3	561.5	620.9	626.3
60°	7812.8	7861.4	3223.4	874.7	761.3	593.9	437.3	491.3	545.3	604.7	610.1
62.5°	8487.7	7942.4	2208.3	777.5	723.5	626.3	421.1	442.7	496.7	545.3	550.7
65°	6954.3	6036.4	1258.0	642.5	642.5	631.7	415.7	383.4	448.1	485.9	480.5
67.5°	*4972.8*	*3936.1*	*669.5*	*496.7*	*539.9*	*588.5*	*404.9*	*334.8*	*399.5*	*426.5*	*404.9*
70°	2899.4	1808.8	404.9	340.2	431.9	485.9	367.2	302.4	351.0	378.0	356.4
72.5°	1792.6	874.7	248.4	243.0	340.2	351.0	302.4	270.0	307.8	334.8	313.2
75°	1328.2	453.5	151.2	189.0	205.2	275.4	237.6	232.2	259.2	291.6	275.4
77.5°	529.1	135.0	81.0	140.4	135.0	216.0	162.0	183.6	199.8	232.2	210.6
80°	297.0	70.2	54.0	86.4	86.4	172.8	102.6	102.6	140.4	162.0	145.8
82.5°	91.8	37.8	37.8	48.6	48.6	91.8	70.2	70.2	97.2	108.0	86.4
85°	27.0	27.0	27.0	32.4	27.0	43.2	48.6	37.8	48.6	48.6	43.2
87.5°	16.2	16.2	16.2	16.2	16.2	16.2	21.6	21.6	27.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1452.4	1425.4	1409.2	1393.0	1387.6	1382.2	1371.4	1398.4	1414.6	1430.8	1430.8
5°	1209.4	1155.5	1123.1	1117.7	1096.1	1085.3	1106.9	1128.5	1171.7	1193.2	1220.2
7.5°	1009.7	944.9	890.9	853.1	847.7	853.1	853.1	874.7	923.3	944.9	971.9
10°	880.1	777.5	712.7	691.1	674.9	669.5	669.5	674.9	701.9	712.7	745.1
12.5°	809.9	674.9	620.9	593.9	577.7	561.5	539.9	529.1	539.9	545.3	566.9
15°	858.5	631.7	566.9	550.7	529.1	502.1	480.5	469.7	469.7	469.7	469.7
17.5°	950.3	631.7	550.7	523.7	491.3	469.7	453.5	442.7	437.3	437.3	431.9
20°	1063.7	653.3	539.9	496.7	458.9	442.7	426.5	415.7	415.7	410.3	410.3
22.5°	1182.4	658.7	534.5	464.3	437.3	415.7	399.5	394.1	388.8	388.8	388.8
25°	1220.2	658.7	529.1	431.9	404.9	394.1	378.0	372.6	372.6	372.6	372.6
27.5°	1150.1	647.9	518.3	404.9	383.4	367.2	361.8	351.0	351.0	351.0	356.4
30°	1042.1	631.7	491.3	394.1	361.8	345.6	340.2	334.8	329.4	334.8	334.8
32.5°	955.7	626.3	458.9	378.0	340.2	329.4	318.6	313.2	313.2	318.6	318.6
35°	907.1	620.9	431.9	361.8	318.6	307.8	302.4	297.0	291.6	297.0	302.4
37.5°	874.7	620.9	410.3	345.6	297.0	286.2	286.2	280.8	280.8	280.8	286.2
40°	831.5	615.5	394.1	329.4	280.8	270.0	264.6	259.2	259.2	264.6	270.0
42.5°	788.3	604.7	378.0	307.8	264.6	243.0	243.0	237.6	243.0	248.4	253.8
45°	734.3	577.7	356.4	291.6	243.0	226.8	221.4	221.4	226.8	232.2	237.6
47.5°	691.1	550.7	351.0	270.0	226.8	210.6	205.2	199.8	210.6	216.0	221.4
50°	647.9	539.9	361.8	259.2	216.0	194.4	189.0	189.0	199.8	205.2	210.6
52.5°	637.1	539.9	372.6	248.4	199.8	183.6	178.2	183.6	189.0	199.8	205.2
55°	631.7	518.3	378.0	226.8	194.4	172.8	172.8	178.2	183.6	189.0	194.4
57.5°	626.3	475.1	345.6	210.6	183.6	167.4	167.4	172.8	178.2	183.6	183.6
60°	593.9	410.3	297.0	189.0	172.8	162.0	162.0	162.0	162.0	162.0	167.4
62.5°	512.9	345.6	253.8	167.4	156.6	151.2	151.2	145.8	135.0	140.4	145.8
65°	410.3	264.6	216.0	145.8	140.4	140.4	135.0	118.8	108.0	108.0	113.4
67.5°	*313.2*	*194.4*	*172.8*	*129.6*	*124.2*	*118.8*	*118.8*	*108.0*	*91.8*	*97.2*	*102.6*
70°	243.0	162.0	135.0	113.4	102.6	102.6	108.0	97.2	81.0	86.4	91.8
72.5°	194.4	135.0	113.4	86.4	75.6	86.4	91.8	81.0	70.2	70.2	75.6
75°	156.6	102.6	86.4	64.8	59.4	70.2	70.2	64.8	59.4	59.4	64.8
77.5°	113.4	75.6	59.4	48.6	43.2	54.0	54.0	48.6	43.2	48.6	48.6
80°	75.6	48.6	37.8	37.8	32.4	37.8	32.4	32.4	32.4	37.8	37.8
82.5°	54.0	32.4	27.0	27.0	21.6	21.6	21.6	27.0	32.4	32.4	32.4
85°	27.0	21.6	21.6	16.2	16.2	16.2	21.6	21.6	27.0	27.0	27.0
87.5°	21.6	16.2	16.2	10.8	10.8	10.8	16.2	21.6	21.6	21.6	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

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-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1474.0	1522.6	1549.6	1587.4	1641.4	1668.4	1717.0	1738.6	1744.0	1765.6
5°	1279.6	1371.4	1447.0	1533.4	1630.6	1711.6	1798.0	1873.6	1900.6	1927.6
7.5°	1069.1	1155.5	1285.0	1420.0	1571.2	1700.8	1835.8	1933.0	1970.7	1997.7
10°	820.7	944.9	1101.5	1268.8	1468.6	1646.8	1841.2	1976.1	2013.9	2040.9
12.5°	626.3	728.9	917.9	1106.9	1344.4	1576.6	1825.0	1992.3	2051.7	2057.1
15°	496.7	556.1	718.1	966.5	1241.8	1517.2	1808.8	2003.1	2040.9	2062.5
17.5°	431.9	442.7	529.1	782.9	1117.7	1441.6	1787.2	2008.5	2040.9	2051.7
20°	410.3	404.9	415.7	550.7	966.5	1376.8	1760.2	2019.3	2024.7	2035.5
22.5°	388.8	383.4	383.4	410.3	745.1	1279.6	1749.4	2030.1	2024.7	2024.7
25°	372.6	367.2	361.8	367.2	502.1	1117.7	1733.2	2051.7	2024.7	2013.9
27.5°	356.4	351.0	345.6	345.6	372.6	928.7	1690.0	2089.5	2035.5	2019.3
30°	340.2	334.8	334.8	329.4	340.2	745.1	1619.8	2138.1	2067.9	2057.1
32.5°	324.0	324.0	318.6	318.6	318.6	561.5	1565.8	2208.3	2127.3	2084.1
35°	307.8	307.8	302.4	302.4	307.8	415.7	1511.8	2278.5	2197.5	2165.1
37.5°	291.6	291.6	286.2	286.2	291.6	394.1	1468.6	2370.3	2294.7	2256.9
40°	280.8	275.4	275.4	270.0	280.8	394.1	1425.4	2499.9	2440.5	2386.5
42.5°	259.2	259.2	253.8	253.8	264.6	367.2	1371.4	2721.3	2634.9	2591.7
45°	243.0	243.0	237.6	237.6	259.2	345.6	1474.0	3066.8	2969.6	2899.4
47.5°	232.2	226.8	221.4	221.4	248.4	324.0	1889.8	3671.5	3434.0	3272.0
50°	216.0	216.0	210.6	205.2	237.6	334.8	2451.3	4373.4	4141.3	3990.1
52.5°	205.2	205.2	199.8	189.0	216.0	351.0	2861.6	5118.5	4983.6	4924.2
55°	199.8	199.8	183.6	178.2	199.8	297.0	2883.2	5955.4	6220.0	6128.2
57.5°	189.0	189.0	172.8	167.4	178.2	259.2	2397.3	6641.2	7845.2	7845.2
60°	172.8	172.8	162.0	151.2	167.4	237.6	1522.6	6813.9	9351.6	9934.7
62.5°	156.6	162.0	151.2	140.4	140.4	205.2	745.1	6014.8	9114.0	9913.1
65°	135.0	140.4	140.4	124.2	129.6	183.6	334.8	4346.4	7483.4	8385.1
67.5°	*118.8*	*124.2*	*118.8*	*108.0*	*124.2*	*135.0*	*172.8*	*2969.6*	*6257.8*	*7029.9*
70°	108.0	113.4	102.6	91.8	113.4	97.2	129.6	1684.6	4821.6	5550.5
72.5°	91.8	97.2	86.4	70.2	102.6	75.6	97.2	642.5	3509.6	4065.7
75°	75.6	81.0	70.2	59.4	70.2	59.4	75.6	232.2	2229.9	2742.9
77.5°	54.0	64.8	59.4	48.6	54.0	43.2	54.0	113.4	1182.4	1382.2
80°	43.2	43.2	43.2	37.8	32.4	32.4	37.8	70.2	189.0	270.0
82.5°	37.8	32.4	32.4	27.0	27.0	21.6	21.6	32.4	97.2	108.0
85°	32.4	27.0	27.0	21.6	16.2	10.8	10.8	10.8	32.4	37.8
87.5°	27.0	21.6	16.2	10.8	5.4	5.4	0.0	5.4	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

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

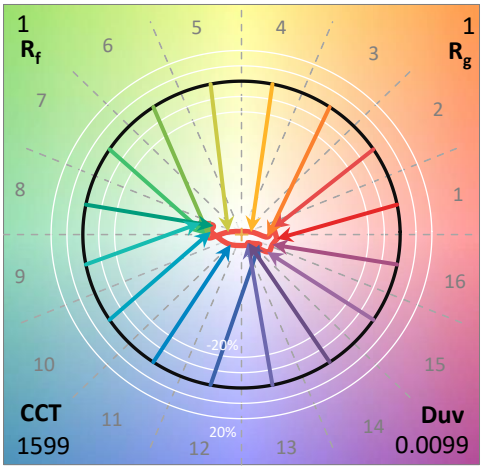
Test Information

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

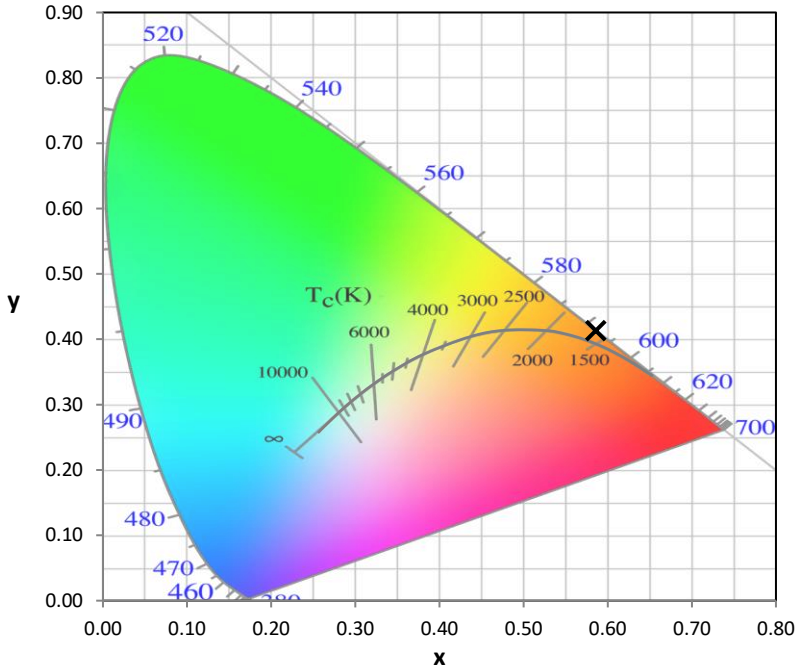
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

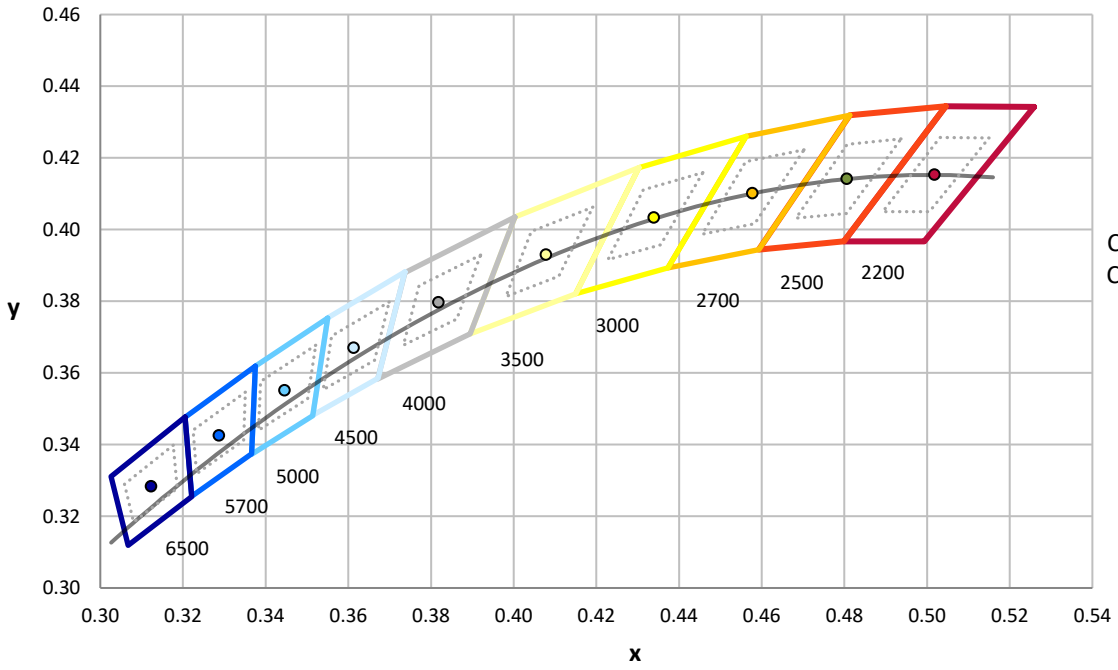
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

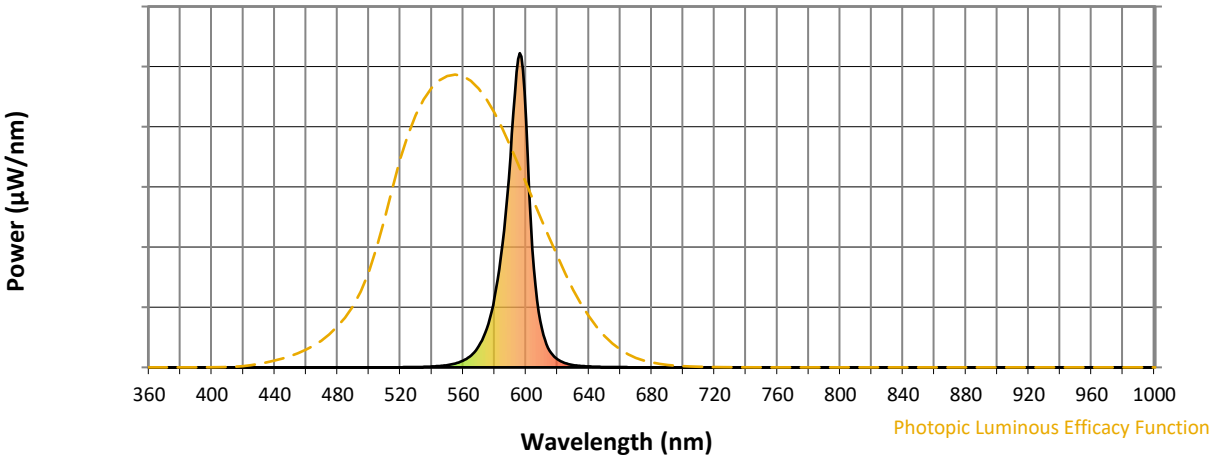


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

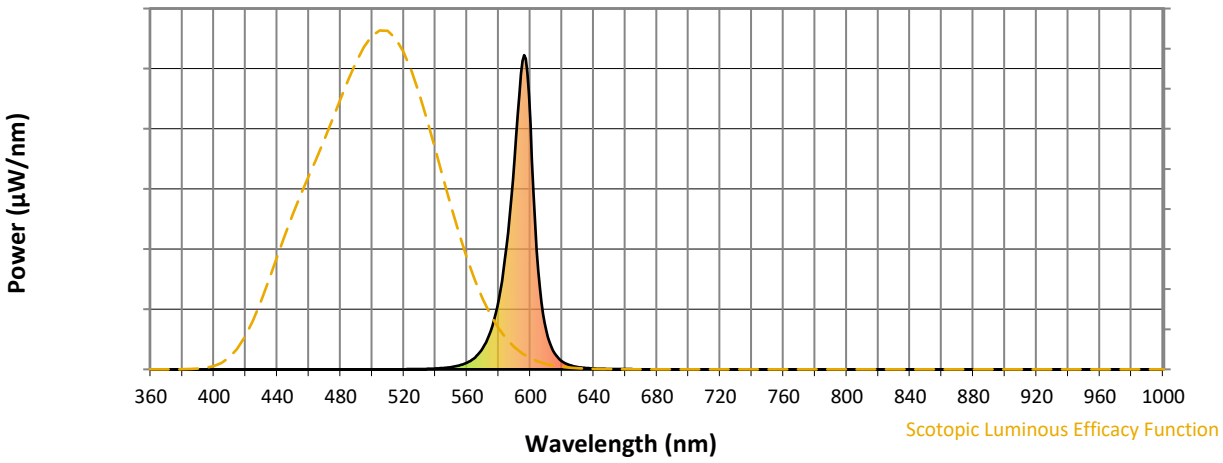


Photopic Lumens: NR

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

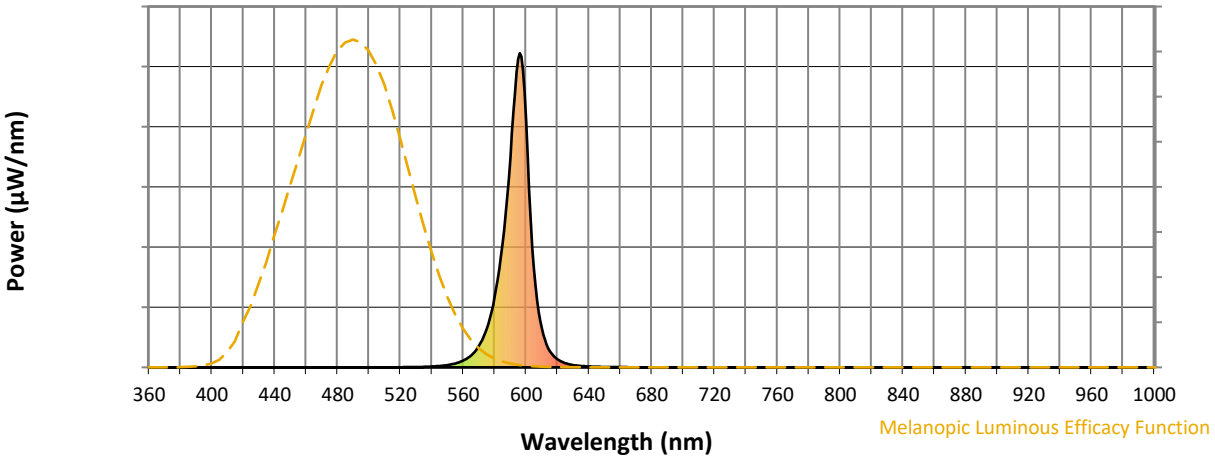


Scotopic Lumens: NR **S/P: 0.23**

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			

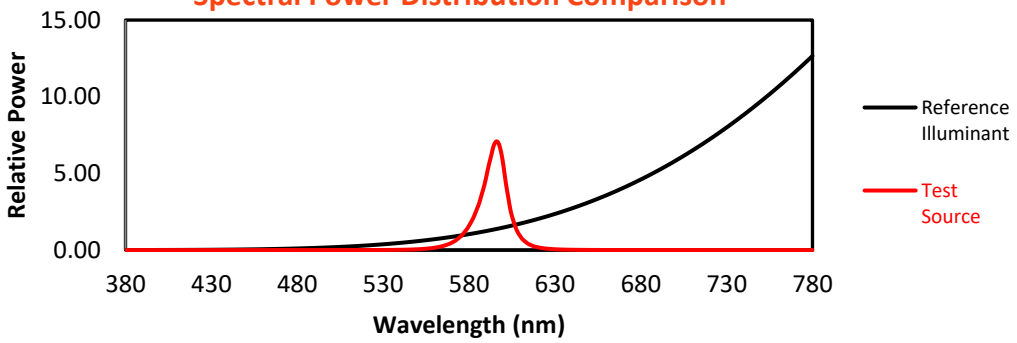
REPORT NUMBER: SP3-2509-541-1

TM-30-18

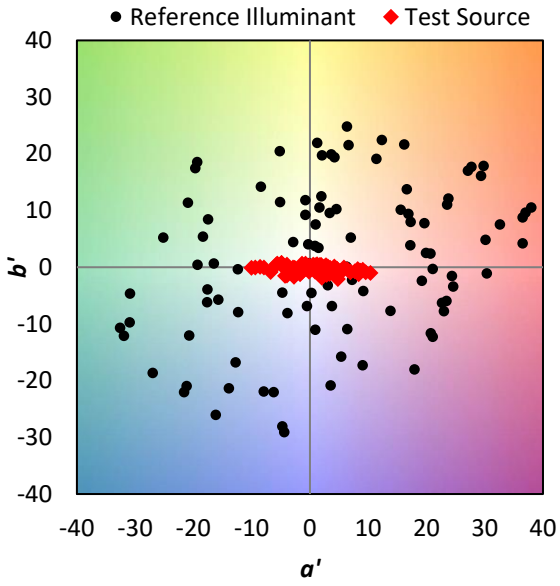
Summary

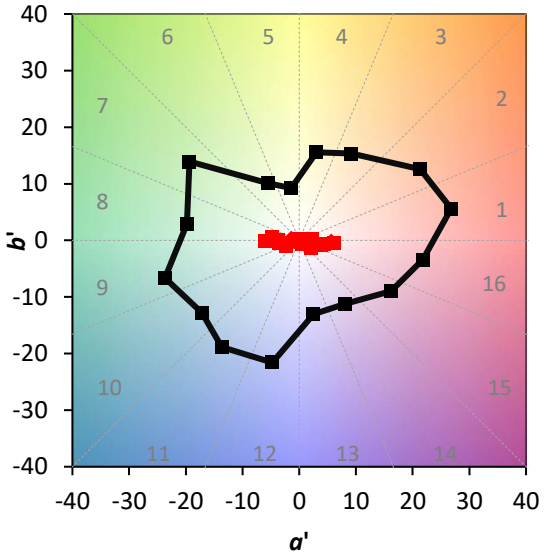
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

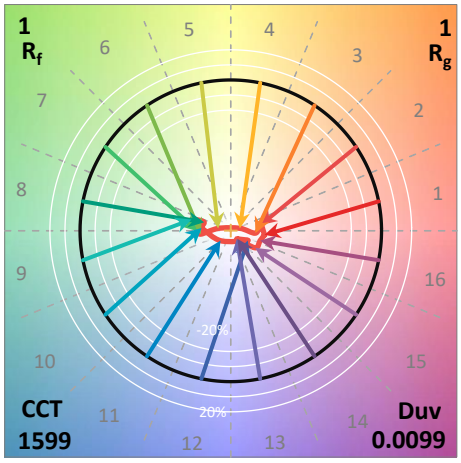
Spectral Power Distribution Comparison

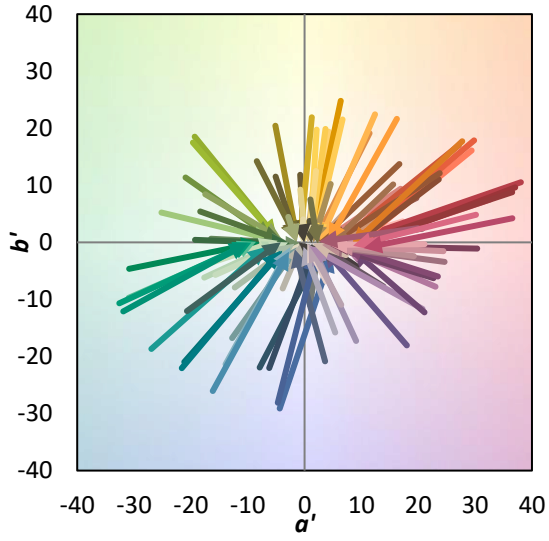


Color Vector Graphics







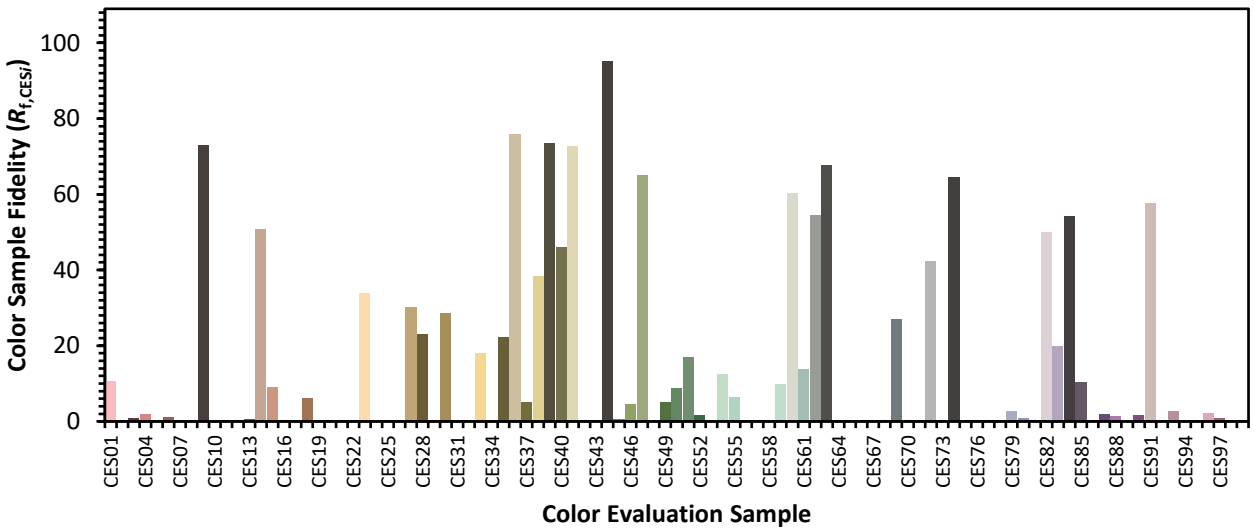


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

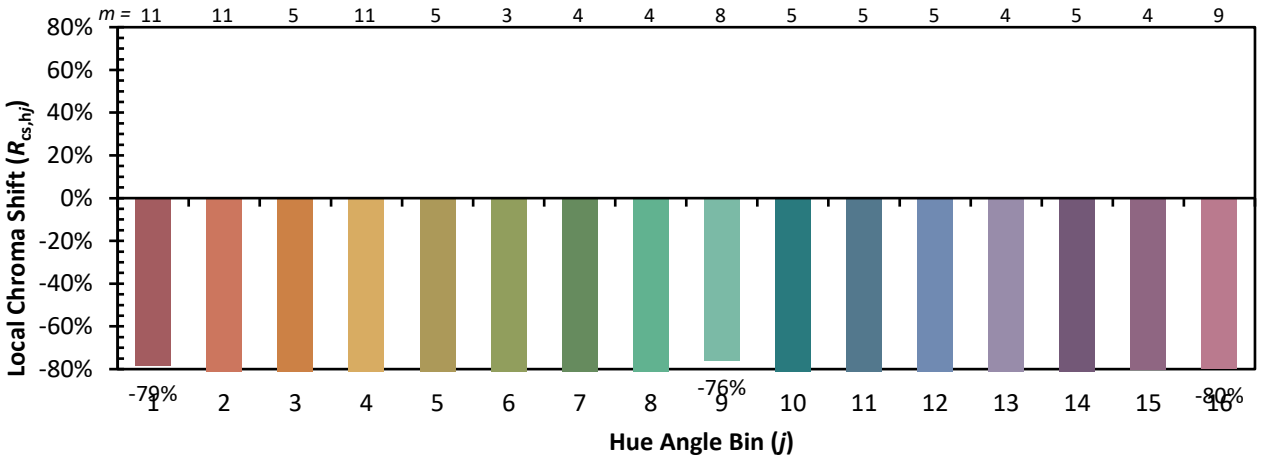
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 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	

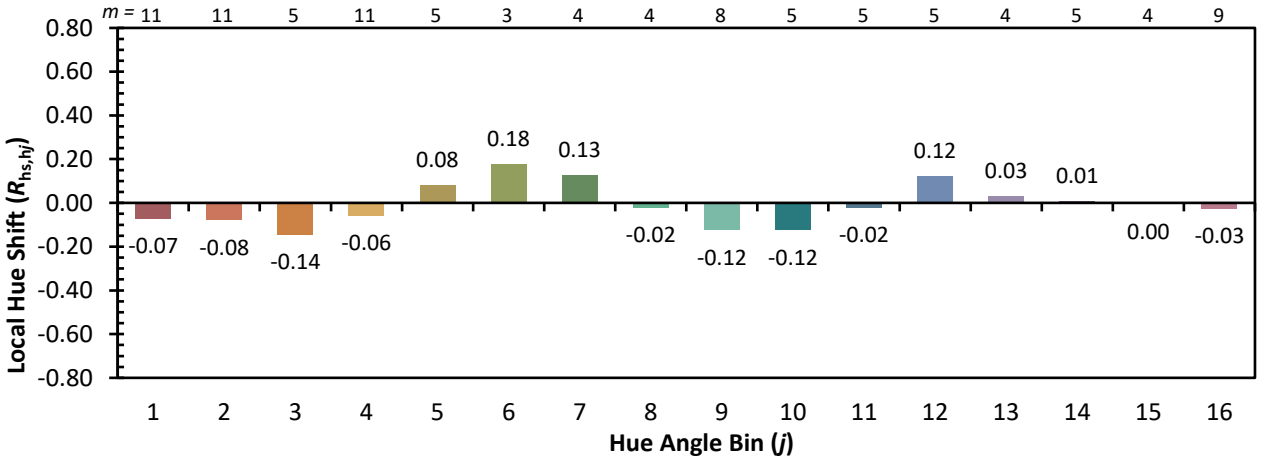


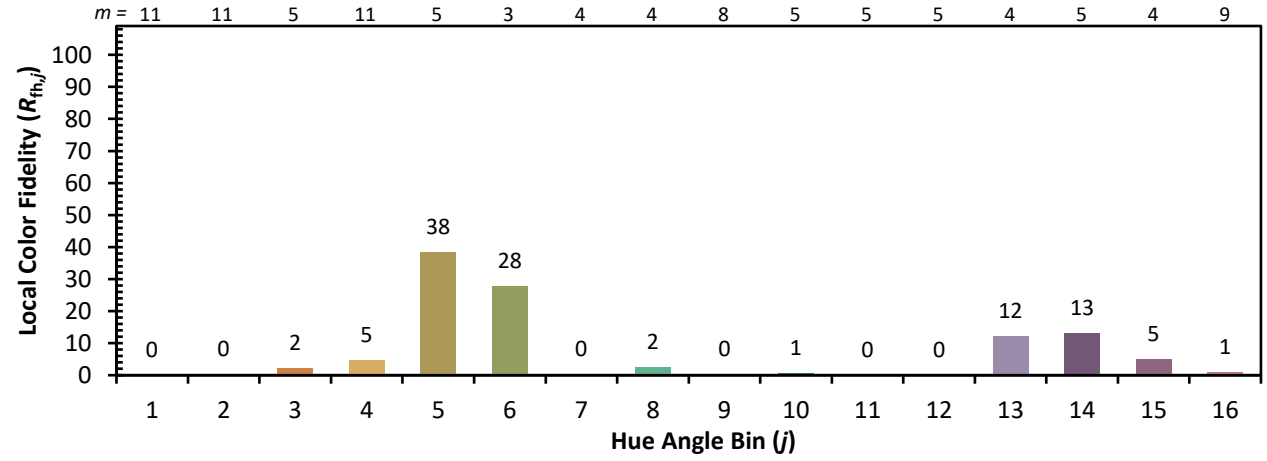
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Color Rendition by Hue-Angle Bin



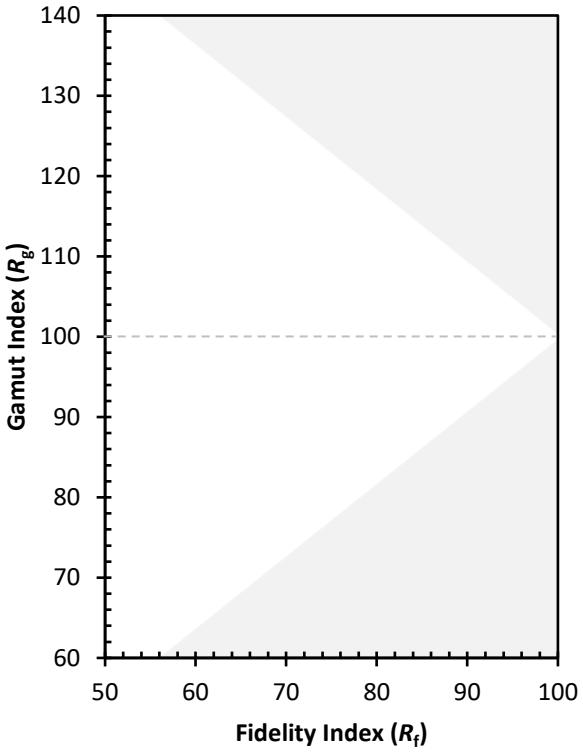


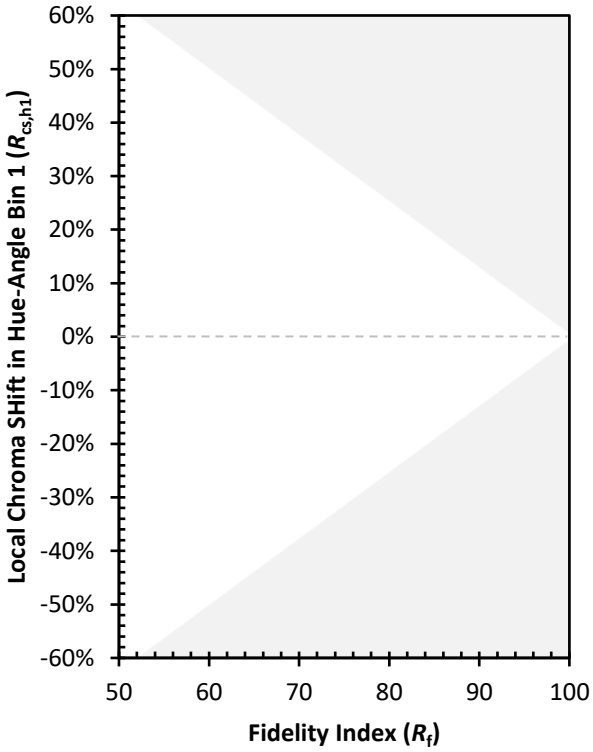


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Measure Comparisons





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