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: P1704731

Luminaire Tested: GSS-SB4A-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:	P1704731
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-AMB-U-SLL-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 4SQUARE 130W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(104) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6210.2 lumens
Efficiency:	N/A
Efficacy:	47.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	130.1
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

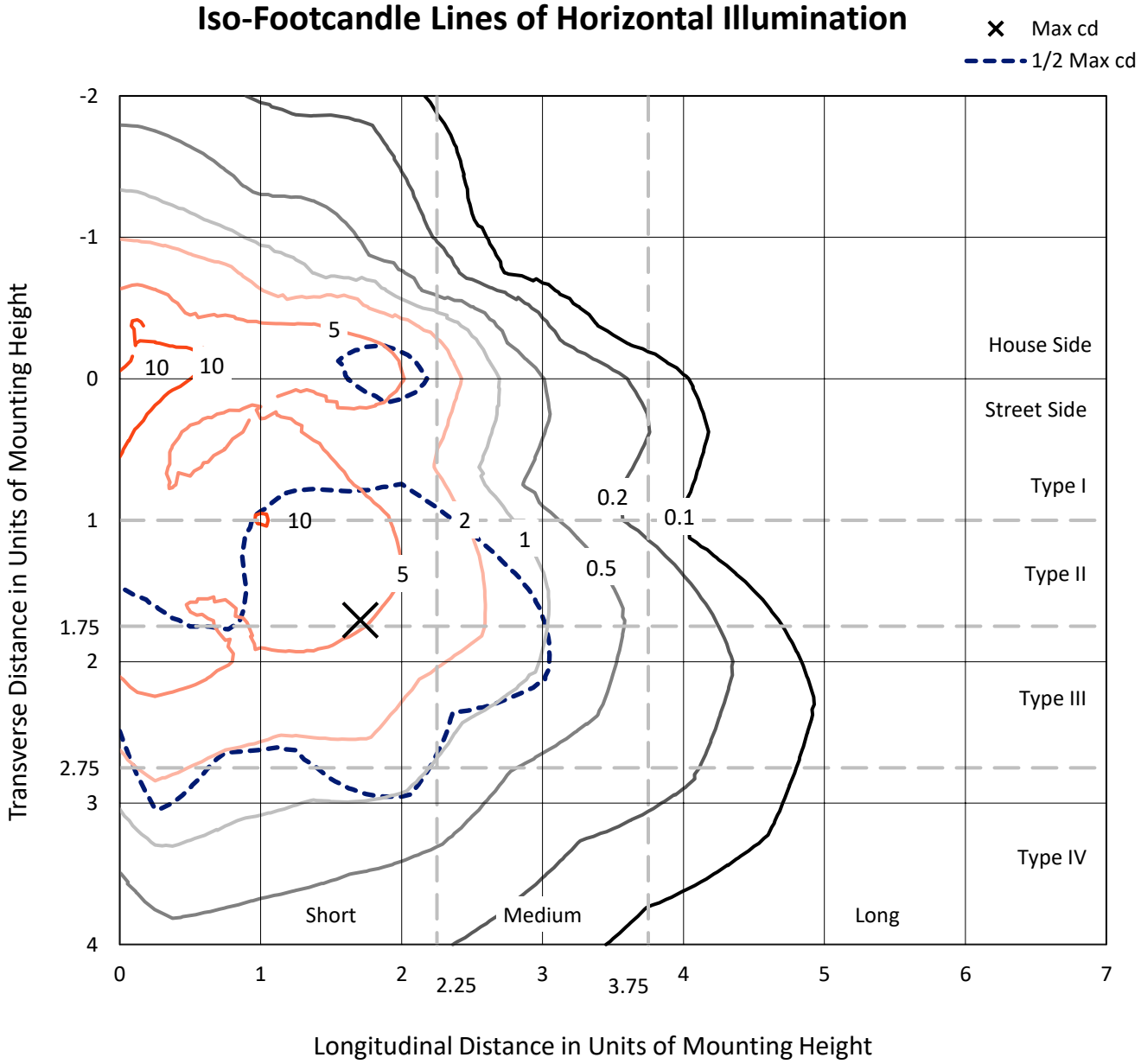


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Iso-Footcandle Lines of Horizontal Illumination



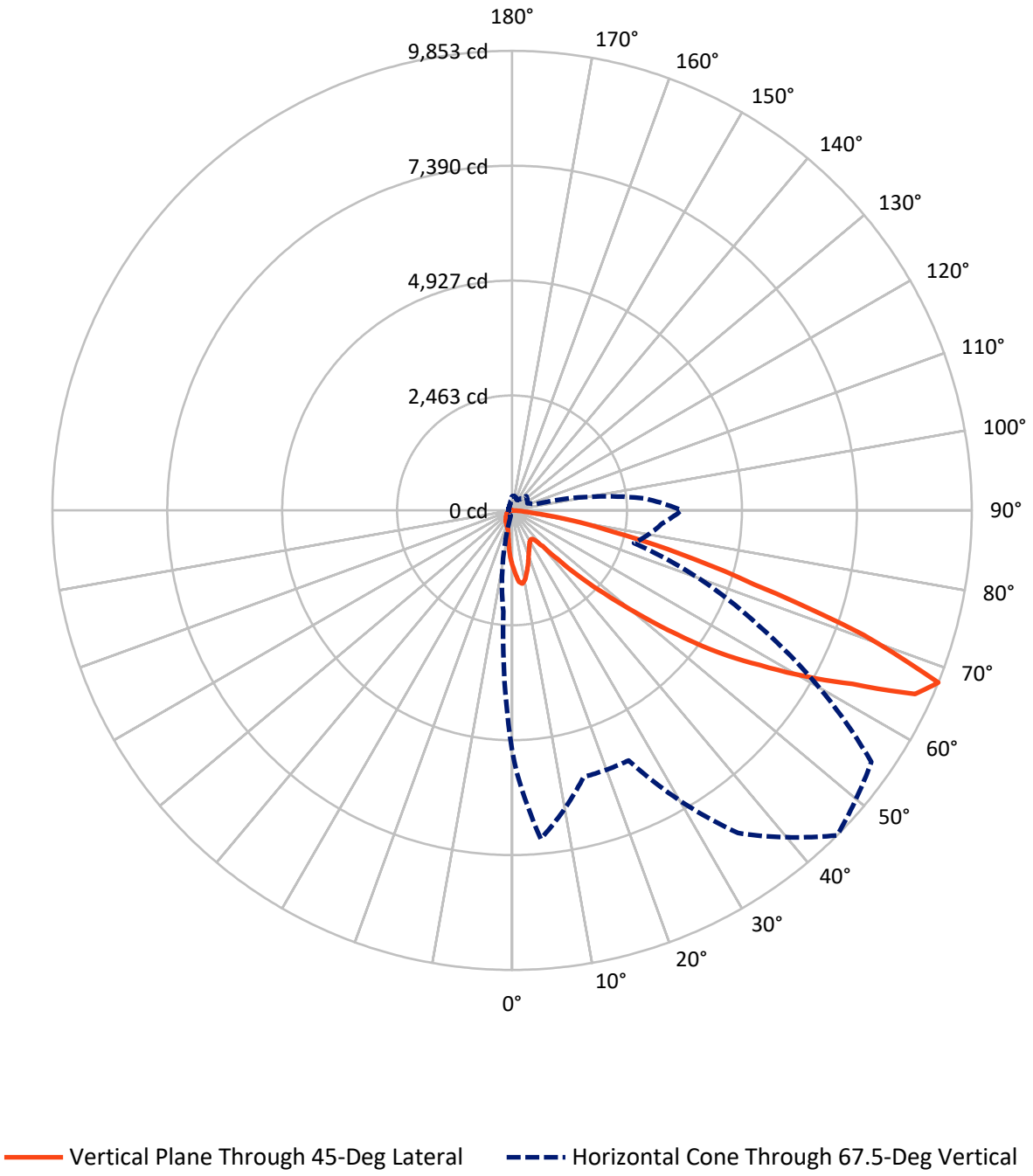
Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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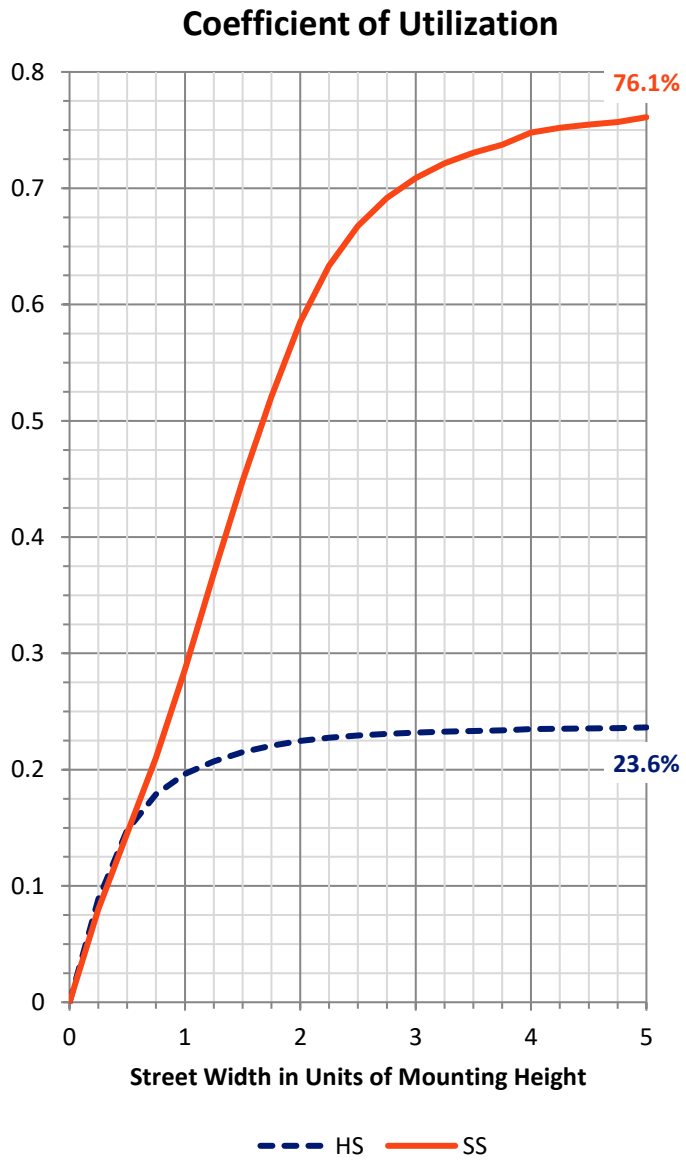
REPORT NUMBER: P1704731
CATALOG NUMBER: GSS-SB4A-AMB-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1481.8	0.0	1481.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4728.3	0.0	4728.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	6210.2	0.0	6210.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.7
10°-20°	270.0	4.3
20°-30°	382.6	6.2
30°-40°	467.8	7.5
40°-50°	704.1	11.3
50°-60°	1331.6	21.4
60°-70°	1929.3	31.1
70°-80°	935.5	15.1
80°-90°	82.2	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°	6210.2	100.0
0°-180°	6210.2	100.0



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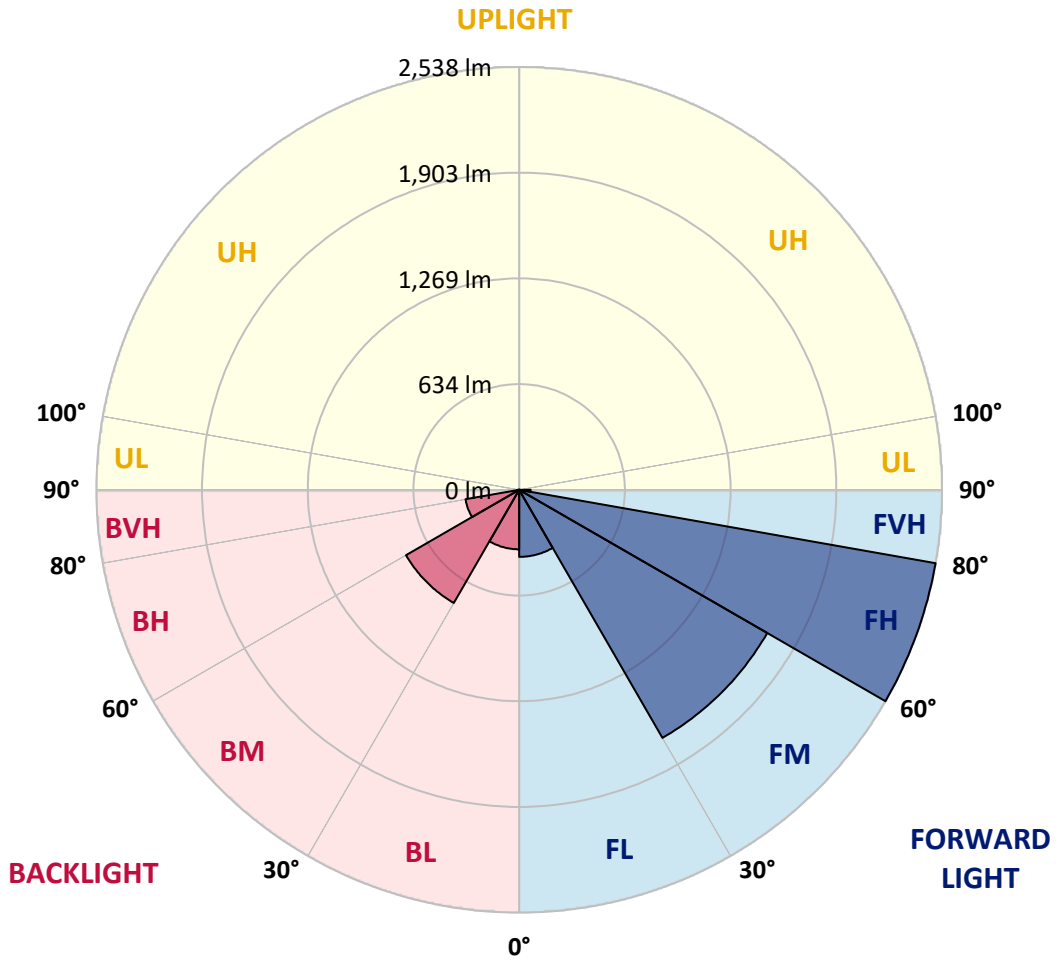
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	402.5	6.5			
FM	(30°-60°)	1719.3	27.7			
FH	(60°-80°)	2537.9	40.9			G2/5000
FVH	(80°-90°)	68.7	1.1			G1/100
BL	(0°-30°)	357.2	5.8	B1/500		
BM	(30°-60°)	784.2	12.6	B1/1000		
BH	(60°-80°)	327.0	5.3	B1/500		G1/500
BVH	(80°-90°)	13.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	*1183.3*	1183.3	1183.3	1183.3	1183.3
2.5°	1289.8	1289.8	1309.5	1317.4	1333.2	1356.9	*1356.9*	1341.1	1356.9	1341.1	1341.1
5°	1408.1	1400.3	1435.8	1479.1	1491.0	1514.6	*1538.3*	1542.3	1530.4	1514.6	1494.9
7.5°	1459.4	1455.5	1494.9	1542.3	1565.9	1581.7	*1585.6*	1589.6	1593.5	1581.7	1573.8
10°	1491.0	1494.9	1522.5	1554.1	1542.3	1522.5	*1514.6*	1522.5	1538.3	1554.1	1581.7
12.5°	1502.8	1506.8	1530.4	1510.7	1447.6	1412.1	*1380.5*	1396.3	1420.0	1467.3	1546.2
15°	1506.8	1494.9	1506.8	1427.9	1337.1	1266.1	*1254.3*	1254.3	1293.8	1352.9	1479.1
17.5°	1498.9	1483.1	1471.3	1341.1	1226.7	1151.8	*1124.1*	1143.9	1179.4	1270.1	1420.0
20°	1487.0	1471.3	1439.7	1266.1	1128.1	1065.0	*1017.7*	1029.5	1072.9	1179.4	1356.9
22.5°	1479.1	1455.5	1396.3	1187.3	1057.1	974.3	*926.9*	934.8	997.9	1124.1	1305.6
25°	1471.3	1451.5	1360.8	1136.0	997.9	903.3	*859.9*	863.8	934.8	1068.9	1281.9
27.5°	1475.2	1443.6	1341.1	1100.5	950.6	852.0	*796.8*	808.6	883.5	1037.4	1254.3
30°	1502.8	1451.5	1333.2	1080.8	930.9	828.3	*761.3*	773.1	848.0	1025.5	1242.5
32.5°	1522.5	1479.1	1337.1	1088.6	923.0	808.6	*741.5*	753.4	840.2	1013.7	1238.5
35°	1581.7	1526.5	1356.9	1104.4	950.6	828.3	*753.4*	761.3	855.9	1013.7	1250.4
37.5°	1648.8	1597.5	1416.0	1143.9	997.9	899.3	*824.4*	808.6	891.4	1033.4	1278.0
40°	1743.4	1680.3	1498.9	1222.8	1092.6	1061.0	*1009.8*	982.2	982.2	1092.6	1333.2
42.5°	1893.3	1818.4	1613.3	1360.8	1317.4	1412.1	*1427.9*	1297.7	1199.1	1187.3	1400.3
45°	2118.1	2003.7	1782.9	1558.0	1664.5	1936.7	*2015.6*	1778.9	1498.9	1333.2	1514.6
47.5°	2390.3	2299.6	1999.8	1818.4	2086.6	2563.8	*2662.5*	2433.7	1960.4	1589.6	1652.7
50°	2914.9	2721.6	2311.4	2130.0	2528.3	3254.1	*3443.4*	3155.5	2437.6	1877.5	1818.4
52.5°	3597.3	3443.4	2867.6	2433.7	2942.5	3975.9	*4401.9*	4003.5	2950.4	2161.5	2031.4
55°	4476.9	4279.7	3691.9	2784.7	3305.4	4567.6	*5399.9*	4981.8	3431.6	2414.0	2504.7
57.5°	5731.2	5660.2	5021.2	3234.4	3538.1	5040.9	*6255.8*	5889.0	3893.1	2623.0	3344.8
60°	7257.7	7474.6	6890.8	3897.0	3774.8	5510.3	*7234.0*	6827.7	4295.4	2816.3	4259.9
62.5°	7241.9	7924.3	9210.1	5999.4	4512.4	6334.7	*8196.4*	7880.9	4906.8	3230.4	4898.9
65°	6125.6	6717.3	8097.8	7782.3	6259.7	8145.1	*9494.1*	9202.2	5995.5	3597.3	4275.7
67.5°	*5135.6*	*5624.7*	*7072.3*	*5916.6*	*5916.6*	*8444.9*	*9853.1*	*9399.5*	*5810.1*	*2705.8*	*3230.4*
70°	4054.8	4551.8	5841.6	4827.9	5139.5	7671.8	*7983.4*	8468.6	5281.5	1869.6	2181.2
72.5°	2970.1	3404.0	4654.4	3936.5	4177.1	6792.2	*5423.5*	7190.6	4465.0	1155.7	1526.5
75°	2003.7	2260.1	3329.1	3159.4	3380.3	4330.9	*3727.4*	4737.2	3719.6	938.8	1266.1
77.5°	1009.8	1214.9	1849.9	2047.1	2350.9	2287.7	*2212.8*	3234.4	2757.1	504.9	532.5
80°	197.2	244.6	426.0	761.3	954.5	1246.4	*1293.8*	1806.5	1487.0	280.1	315.6
82.5°	78.9	86.8	106.5	260.3	268.2	528.5	*457.5*	804.7	611.4	138.1	102.6
85°	27.6	31.6	39.4	51.3	142.0	224.8	*149.9*	126.2	145.9	39.4	23.7
87.5°	0.0	0.0	3.9	3.9	3.9	7.9	*11.8*	11.8	11.8	11.8	11.8
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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CATALOG NUMBER: GSS-SB4A-AMB-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1317.4	1305.6	1285.9	1254.3	1226.7	1187.3	1167.5	1128.1	1108.4	1080.8	1068.9
5°	1479.1	1447.6	1388.4	1325.3	1250.4	1183.3	1112.3	1049.2	990.0	934.8	903.3
7.5°	1554.1	1530.4	1467.3	1372.6	1278.0	1183.3	1080.8	986.1	891.4	812.5	773.1
10°	1581.7	1562.0	1494.9	1396.3	1297.7	1191.2	1080.8	962.4	855.9	745.5	694.2
12.5°	1558.0	1550.1	1506.8	1408.1	1305.6	1222.8	1128.1	1017.7	883.5	741.5	666.6
15°	1522.5	1546.2	1530.4	1420.0	1321.4	1242.5	1183.3	1120.2	1001.9	820.4	721.8
17.5°	1491.0	1546.2	1546.2	1439.7	1337.1	1238.5	1207.0	1214.9	1210.9	986.1	836.2
20°	1459.4	1538.3	1577.8	1455.5	1325.3	1207.0	1199.1	1293.8	1360.8	1187.3	986.1
22.5°	1439.7	1546.2	1601.4	1463.4	1278.0	1116.3	1143.9	1281.9	1396.3	1309.5	1100.5
25°	1408.1	1562.0	1625.1	1463.4	1210.9	1009.8	1057.1	1195.1	1297.7	1293.8	1139.9
27.5°	1400.3	1573.8	1680.3	1459.4	1108.4	915.1	990.0	1076.8	1163.6	1163.6	1053.1
30°	1408.1	1605.4	1735.5	1463.4	1017.7	875.7	938.8	1001.9	1045.3	1013.7	923.0
32.5°	1420.0	1656.6	1865.7	1487.0	942.7	852.0	903.3	926.9	942.7	899.3	824.4
35°	1447.6	1731.6	1948.5	1550.1	895.4	832.3	863.8	859.9	855.9	824.4	757.3
37.5°	1491.0	1834.1	2059.0	1562.0	903.3	804.7	808.6	788.9	765.2	745.5	702.1
40°	1562.0	1920.9	2161.5	1522.5	934.8	784.9	741.5	706.0	678.4	674.5	646.9
42.5°	1656.6	2070.8	2268.0	1384.5	923.0	769.2	674.5	631.1	599.5	599.5	591.7
45°	1786.8	2272.0	2350.9	1234.6	859.9	749.4	615.3	560.1	536.4	532.5	544.3
47.5°	1913.0	2461.3	2477.1	1061.0	757.3	698.2	556.2	504.9	481.2	497.0	508.8
50°	2086.6	2729.5	2540.2	903.3	670.5	611.4	497.0	445.7	445.7	469.4	477.3
52.5°	2382.4	3242.3	2642.7	777.0	631.1	512.8	426.0	410.2	426.0	457.5	461.5
55°	3159.4	4125.8	2800.5	713.9	595.6	429.9	378.7	390.5	418.1	453.6	457.5
57.5°	4492.6	5037.0	2757.1	674.5	564.0	414.2	343.2	378.7	410.2	453.6	457.5
60°	5707.5	5743.0	2354.8	639.0	556.2	433.9	319.5	358.9	398.4	441.8	445.7
62.5°	6200.6	5802.2	1613.3	568.0	528.5	457.5	307.7	323.4	362.9	398.4	402.3
65°	5080.4	4409.8	919.0	469.4	469.4	461.5	303.7	280.1	327.4	355.0	351.0
67.5°	*3632.8*	*2875.5*	*489.1*	*362.9*	*394.4*	*429.9*	*295.8*	*244.6*	*291.9*	*311.6*	*295.8*
70°	2118.1	1321.4	295.8	248.5	315.6	355.0	268.2	220.9	256.4	276.1	260.3
72.5°	1309.5	639.0	181.4	177.5	248.5	256.4	220.9	197.2	224.8	244.6	228.8
75°	970.3	331.3	110.4	138.1	149.9	201.2	173.6	169.6	189.3	213.0	201.2
77.5°	386.5	98.6	59.2	102.6	98.6	157.8	118.3	134.1	145.9	169.6	153.8
80°	216.9	51.3	39.4	63.1	63.1	126.2	74.9	74.9	102.6	118.3	106.5
82.5°	67.1	27.6	27.6	35.5	35.5	67.1	51.3	51.3	71.0	78.9	63.1
85°	19.7	19.7	19.7	23.7	19.7	31.6	35.5	27.6	35.5	35.5	31.6
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	15.8	15.8	19.7	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1061.0	1041.3	1029.5	1017.7	1013.7	1009.8	1001.9	1021.6	1033.4	1045.3	1045.3
5°	883.5	844.1	820.4	816.5	800.7	792.8	808.6	824.4	855.9	871.7	891.4
7.5°	737.6	690.3	650.8	623.2	619.3	623.2	623.2	639.0	674.5	690.3	710.0
10°	642.9	568.0	520.7	504.9	493.0	489.1	489.1	493.0	512.8	520.7	544.3
12.5°	591.7	493.0	453.6	433.9	422.0	410.2	394.4	386.5	394.4	398.4	414.2
15°	627.2	461.5	414.2	402.3	386.5	366.8	351.0	343.2	343.2	343.2	343.2
17.5°	694.2	461.5	402.3	382.6	358.9	343.2	331.3	323.4	319.5	319.5	315.6
20°	777.0	477.3	394.4	362.9	335.3	323.4	311.6	303.7	303.7	299.8	299.8
22.5°	863.8	481.2	390.5	339.2	319.5	303.7	291.9	287.9	284.0	284.0	284.0
25°	891.4	481.2	386.5	315.6	295.8	287.9	276.1	272.2	272.2	272.2	272.2
27.5°	840.2	473.3	378.7	295.8	280.1	268.2	264.3	256.4	256.4	256.4	260.3
30°	761.3	461.5	358.9	287.9	264.3	252.4	248.5	244.6	240.6	244.6	244.6
32.5°	698.2	457.5	335.3	276.1	248.5	240.6	232.7	228.8	228.8	232.7	232.7
35°	662.7	453.6	315.6	264.3	232.7	224.8	220.9	216.9	213.0	216.9	220.9
37.5°	639.0	453.6	299.8	252.4	216.9	209.1	209.1	205.1	205.1	205.1	209.1
40°	607.4	449.7	287.9	240.6	205.1	197.2	193.3	189.3	189.3	193.3	197.2
42.5°	575.9	441.8	276.1	224.8	193.3	177.5	177.5	173.6	177.5	181.4	185.4
45°	536.4	422.0	260.3	213.0	177.5	165.7	161.7	161.7	165.7	169.6	173.6
47.5°	504.9	402.3	256.4	197.2	165.7	153.8	149.9	145.9	153.8	157.8	161.7
50°	473.3	394.4	264.3	189.3	157.8	142.0	138.1	138.1	145.9	149.9	153.8
52.5°	465.4	394.4	272.2	181.4	145.9	134.1	130.2	134.1	138.1	145.9	149.9
55°	461.5	378.7	276.1	165.7	142.0	126.2	126.2	130.2	134.1	138.1	142.0
57.5°	457.5	347.1	252.4	153.8	134.1	122.3	122.3	126.2	130.2	134.1	134.1
60°	433.9	299.8	216.9	138.1	126.2	118.3	118.3	118.3	118.3	118.3	122.3
62.5°	374.7	252.4	185.4	122.3	114.4	110.4	110.4	106.5	98.6	102.6	106.5
65°	299.8	193.3	157.8	106.5	102.6	102.6	98.6	86.8	78.9	78.9	82.8
67.5°	*228.8*	*142.0*	*126.2*	*94.7*	*90.7*	*86.8*	*86.8*	*78.9*	*67.1*	*71.0*	*74.9*
70°	177.5	118.3	98.6	82.8	74.9	74.9	78.9	71.0	59.2	63.1	67.1
72.5°	142.0	98.6	82.8	63.1	55.2	63.1	67.1	59.2	51.3	51.3	55.2
75°	114.4	74.9	63.1	47.3	43.4	51.3	51.3	47.3	43.4	43.4	47.3
77.5°	82.8	55.2	43.4	35.5	31.6	39.4	39.4	35.5	31.6	35.5	35.5
80°	55.2	35.5	27.6	27.6	23.7	27.6	23.7	23.7	23.7	27.6	27.6
82.5°	39.4	23.7	19.7	19.7	15.8	15.8	15.8	19.7	23.7	23.7	23.7
85°	19.7	15.8	15.8	11.8	11.8	11.8	15.8	15.8	19.7	19.7	19.7
87.5°	15.8	11.8	11.8	7.9	7.9	7.9	11.8	15.8	15.8	15.8	19.7
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: P1704731
CATALOG NUMBER: GSS-SB4A-AMB-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1076.8	1112.3	1132.0	1159.6	1199.1	1218.8	1254.3	1270.1	1274.0	1289.8
5°	934.8	1001.9	1057.1	1120.2	1191.2	1250.4	1313.5	1368.7	1388.4	1408.1
7.5°	781.0	844.1	938.8	1037.4	1147.8	1242.5	1341.1	1412.1	1439.7	1459.4
10°	599.5	690.3	804.7	926.9	1072.9	1203.0	1345.0	1443.6	1471.3	1491.0
12.5°	457.5	532.5	670.5	808.6	982.2	1151.8	1333.2	1455.5	1498.9	1502.8
15°	362.9	406.3	524.6	706.0	907.2	1108.4	1321.4	1463.4	1491.0	1506.8
17.5°	315.6	323.4	386.5	571.9	816.5	1053.1	1305.6	1467.3	1491.0	1498.9
20°	299.8	295.8	303.7	402.3	706.0	1005.8	1285.9	1475.2	1479.1	1487.0
22.5°	284.0	280.1	280.1	299.8	544.3	934.8	1278.0	1483.1	1479.1	1479.1
25°	272.2	268.2	264.3	268.2	366.8	816.5	1266.1	1498.9	1479.1	1471.3
27.5°	260.3	256.4	252.4	252.4	272.2	678.4	1234.6	1526.5	1487.0	1475.2
30°	248.5	244.6	244.6	240.6	248.5	544.3	1183.3	1562.0	1510.7	1502.8
32.5°	236.7	236.7	232.7	232.7	232.7	410.2	1143.9	1613.3	1554.1	1522.5
35°	224.8	224.8	220.9	220.9	224.8	303.7	1104.4	1664.5	1605.4	1581.7
37.5°	213.0	213.0	209.1	209.1	213.0	287.9	1072.9	1731.6	1676.4	1648.8
40°	205.1	201.2	201.2	197.2	205.1	287.9	1041.3	1826.2	1782.9	1743.4
42.5°	189.3	189.3	185.4	185.4	193.3	268.2	1001.9	1988.0	1924.9	1893.3
45°	177.5	177.5	173.6	173.6	189.3	252.4	1076.8	2240.4	2169.4	2118.1
47.5°	169.6	165.7	161.7	161.7	181.4	236.7	1380.5	2682.2	2508.6	2390.3
50°	157.8	157.8	153.8	149.9	173.6	244.6	1790.7	3194.9	3025.3	2914.9
52.5°	149.9	149.9	145.9	138.1	157.8	256.4	2090.5	3739.3	3640.7	3597.3
55°	145.9	145.9	134.1	130.2	145.9	216.9	2106.3	4350.7	4543.9	4476.9
57.5°	138.1	138.1	126.2	122.3	130.2	189.3	1751.3	4851.6	5731.2	5731.2
60°	126.2	126.2	118.3	110.4	122.3	173.6	1112.3	4977.8	6831.7	7257.7
62.5°	114.4	118.3	110.4	102.6	102.6	149.9	544.3	4394.0	6658.1	7241.9
65°	98.6	102.6	102.6	90.7	94.7	134.1	244.6	3175.2	5466.9	6125.6
67.5°	*86.8*	*90.7*	*86.8*	*78.9*	*90.7*	*98.6*	*126.2*	*2169.4*	*4571.5*	*5135.6*
70°	78.9	82.8	74.9	67.1	82.8	71.0	94.7	1230.6	3522.3	4054.8
72.5°	67.1	71.0	63.1	51.3	74.9	55.2	71.0	469.4	2563.8	2970.1
75°	55.2	59.2	51.3	43.4	51.3	43.4	55.2	169.6	1629.0	2003.7
77.5°	39.4	47.3	43.4	35.5	39.4	31.6	39.4	82.8	863.8	1009.8
80°	31.6	31.6	31.6	27.6	23.7	23.7	27.6	51.3	138.1	197.2
82.5°	27.6	23.7	23.7	19.7	19.7	15.8	15.8	23.7	71.0	78.9
85°	23.7	19.7	19.7	15.8	11.8	7.9	7.9	7.9	23.7	27.6
87.5°	19.7	15.8	11.8	7.9	3.9	3.9	0.0	3.9	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

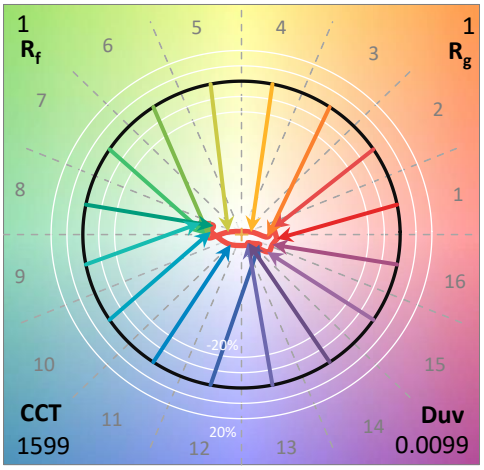
Test Information

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

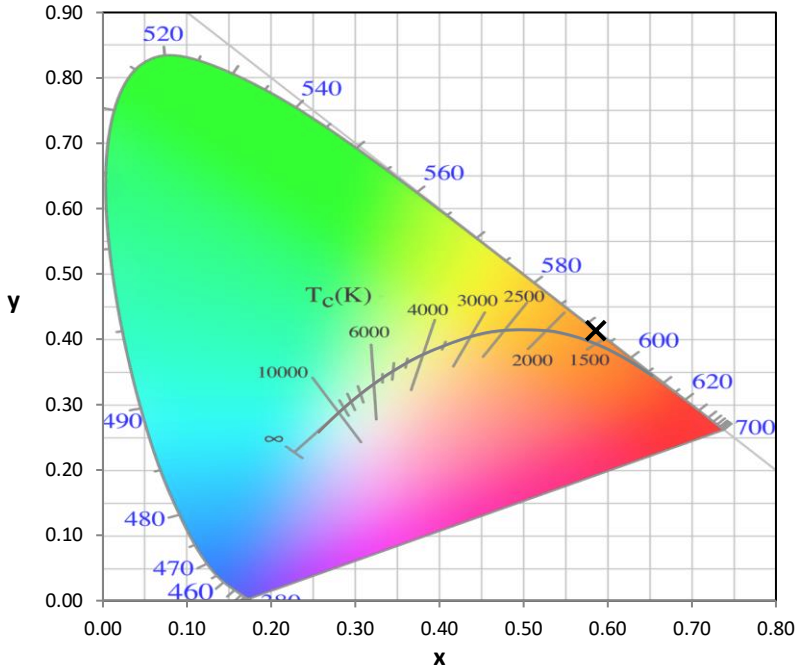
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

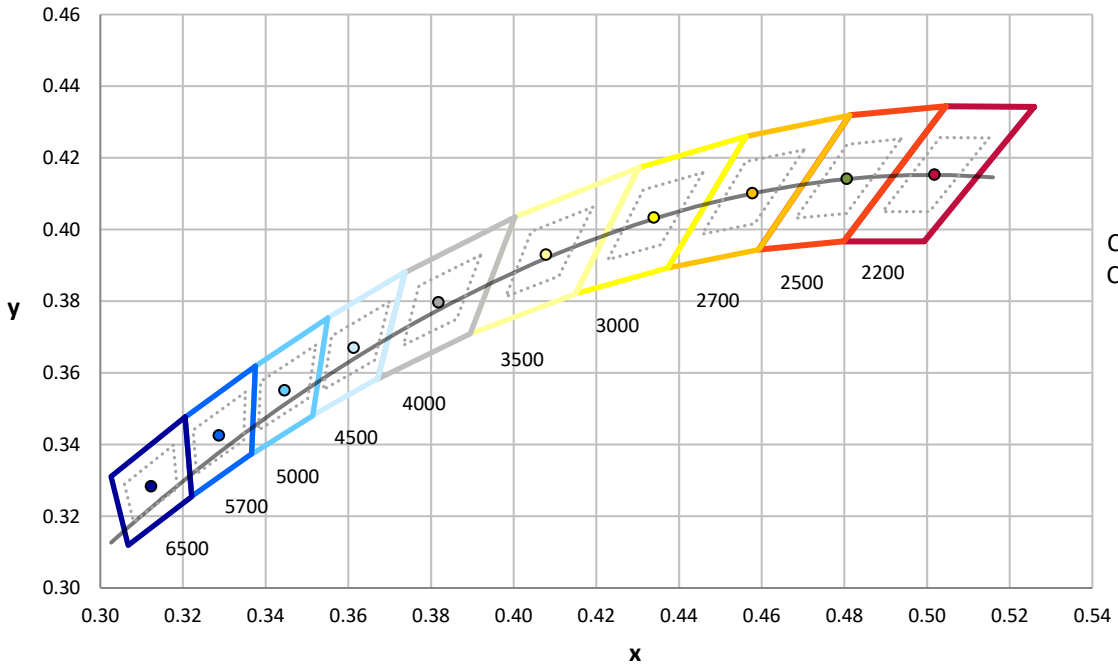
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

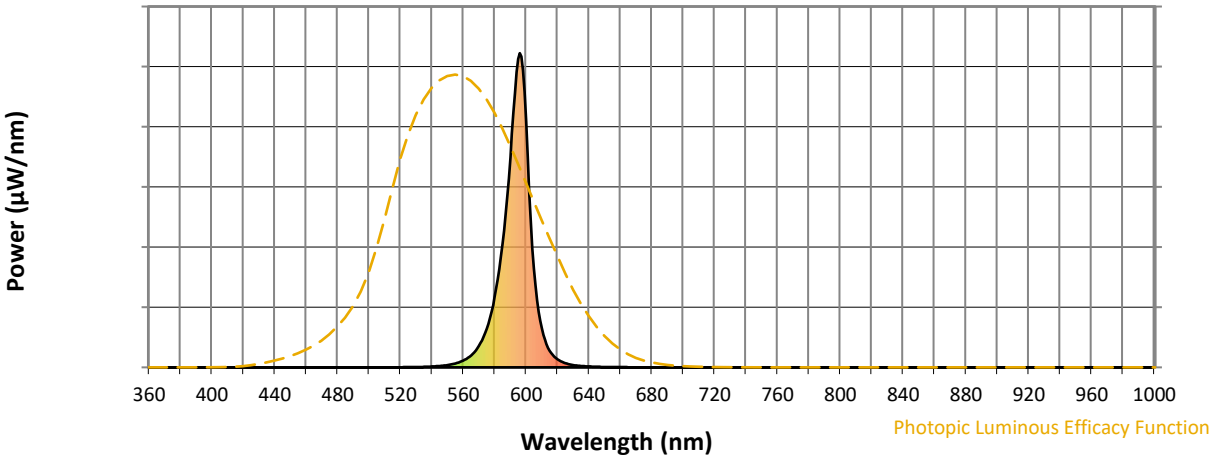


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

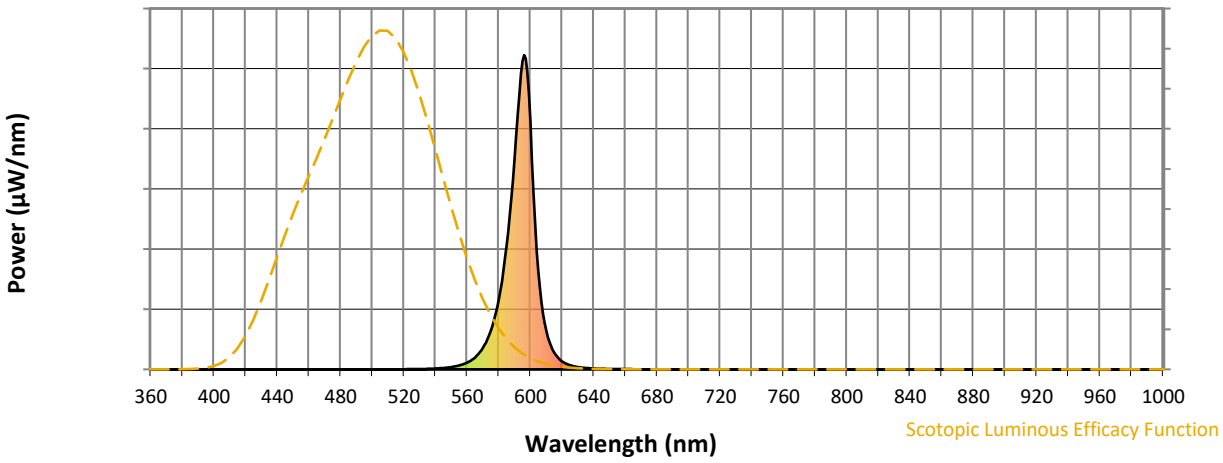


Photopic Lumens: NR

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

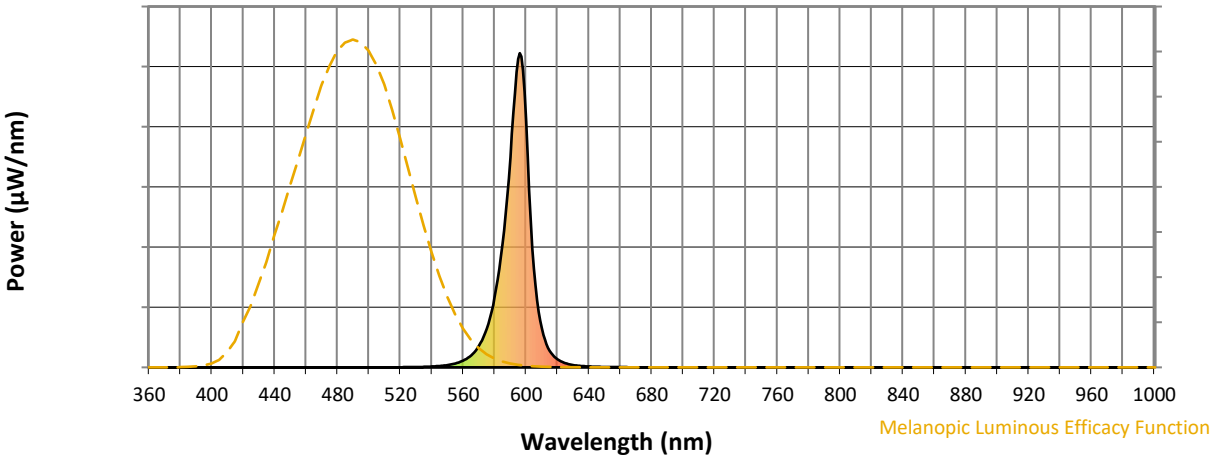


Scotopic Lumens: NR **S/P: 0.23**

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			

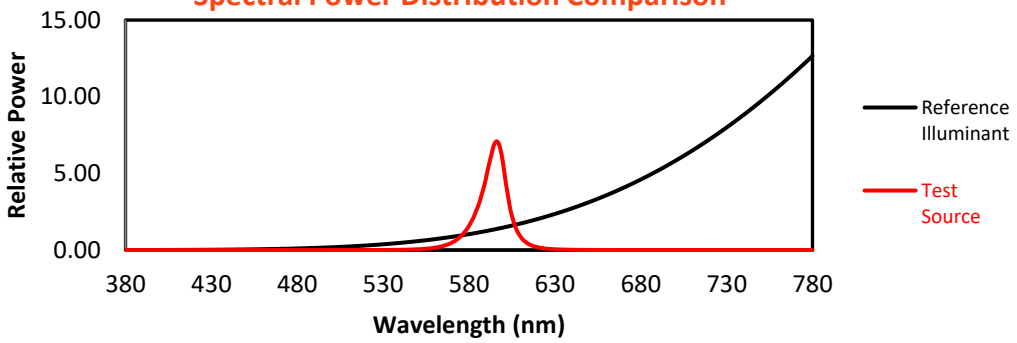
REPORT NUMBER: SP3-2509-541-1

TM-30-18

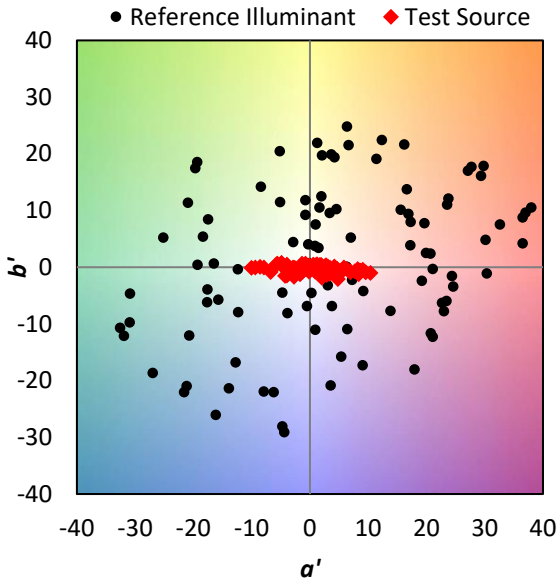
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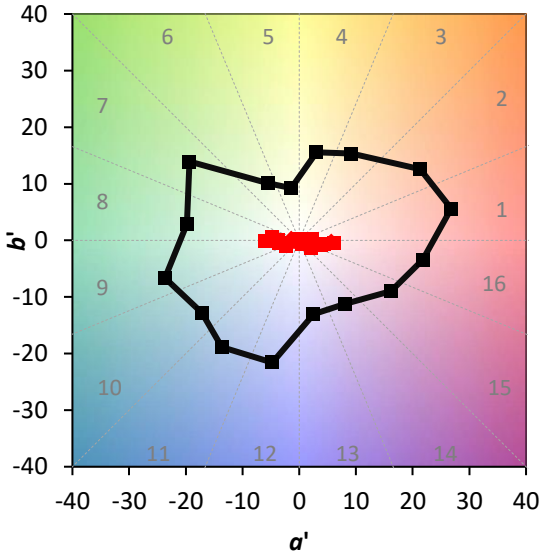
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

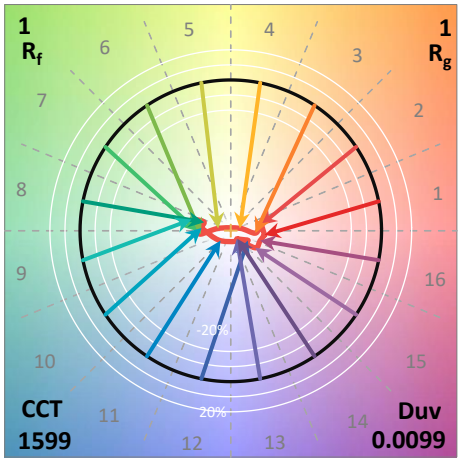
Spectral Power Distribution Comparison

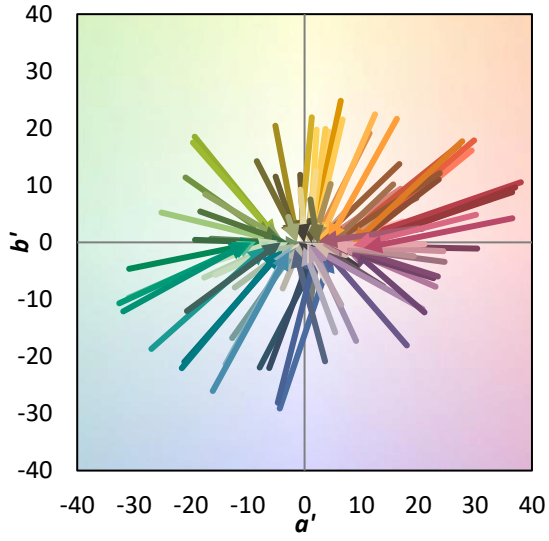


Color Vector Graphics







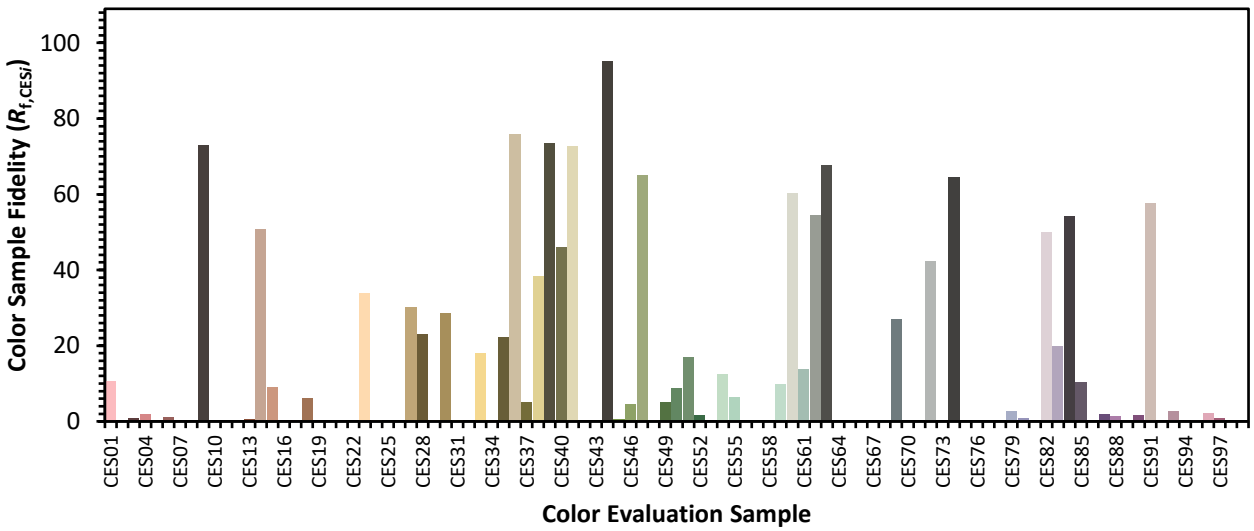


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

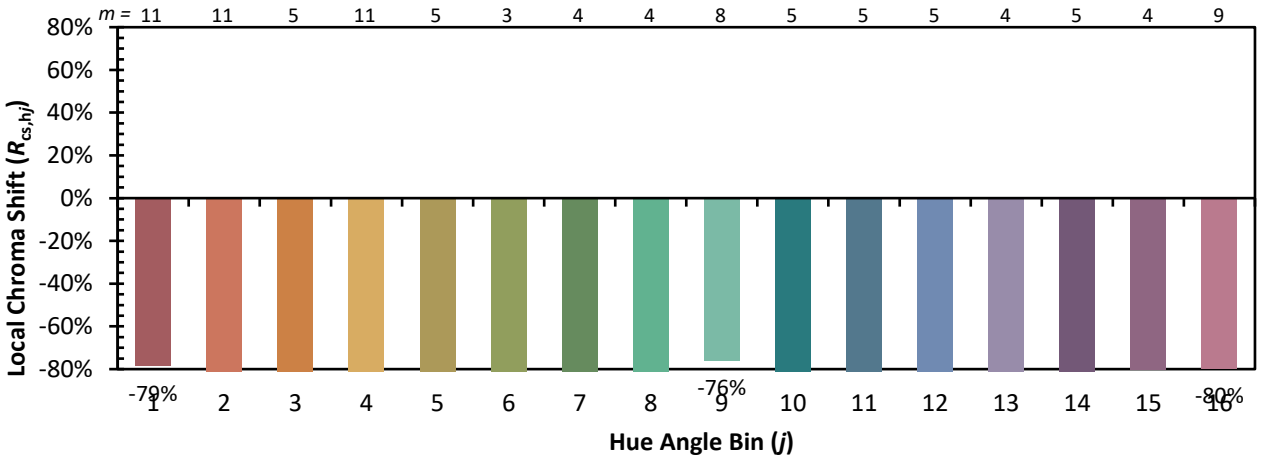
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 =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

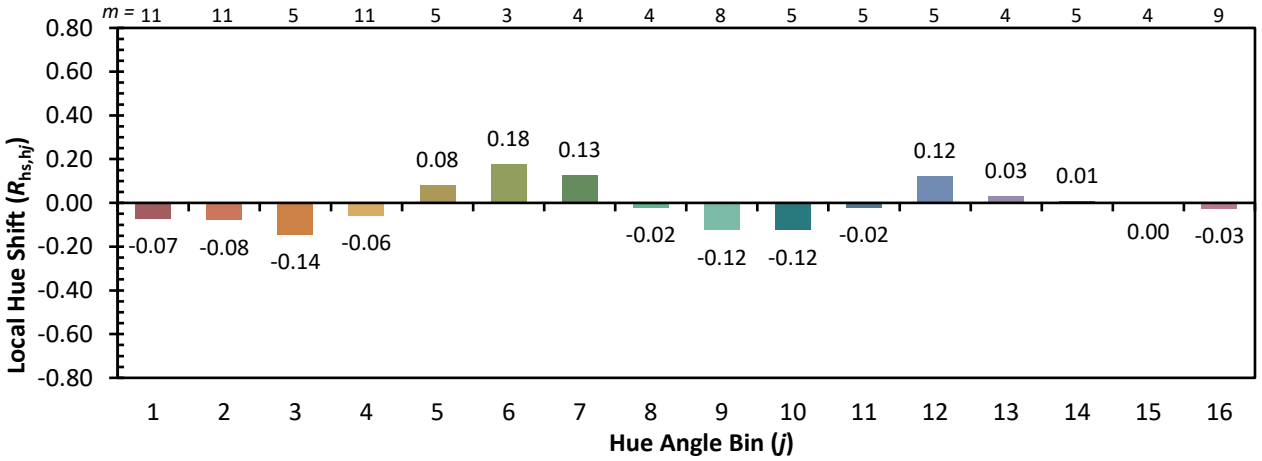


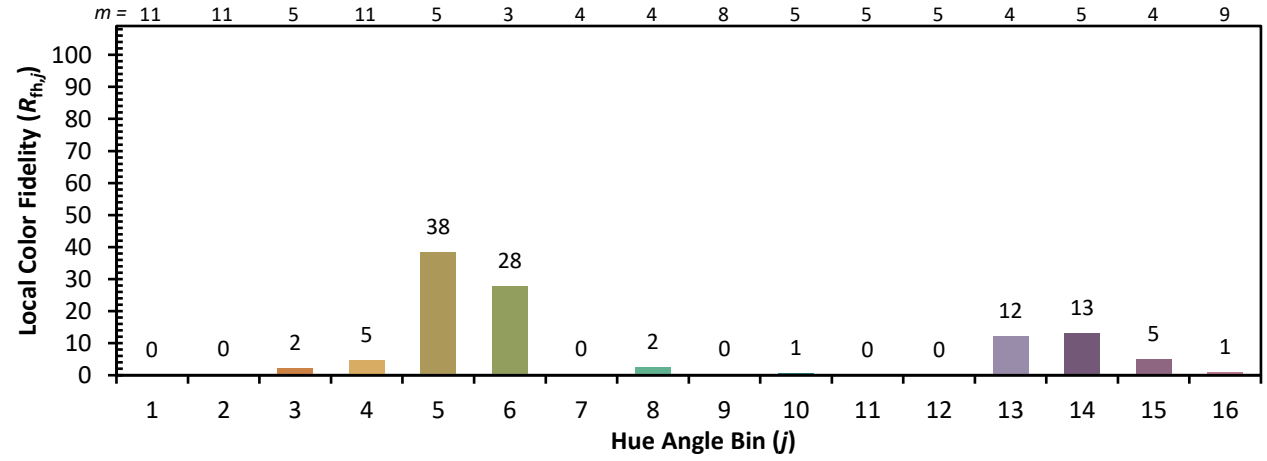
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Color Rendition by Hue-Angle Bin



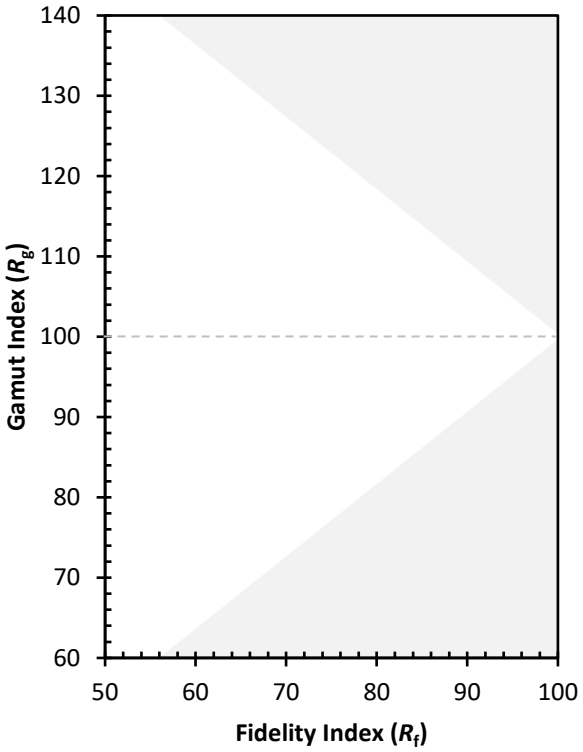


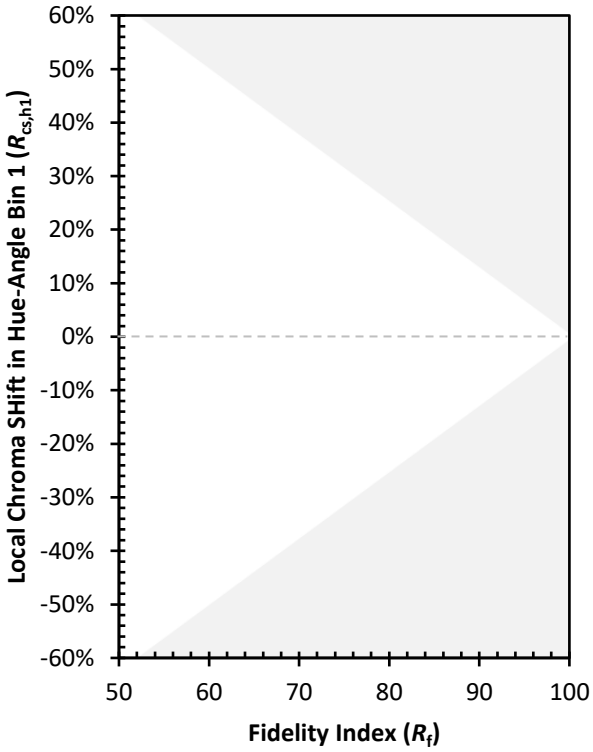


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Measure Comparisons





(END OF REPORT)