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-SLR-HSS

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:	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-SLR-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 4SQUARE 130W 1590K FIXTURE w/ RIGHT 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:	6328.2 lumens
Efficiency:	N/A
Efficacy:	48.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - 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

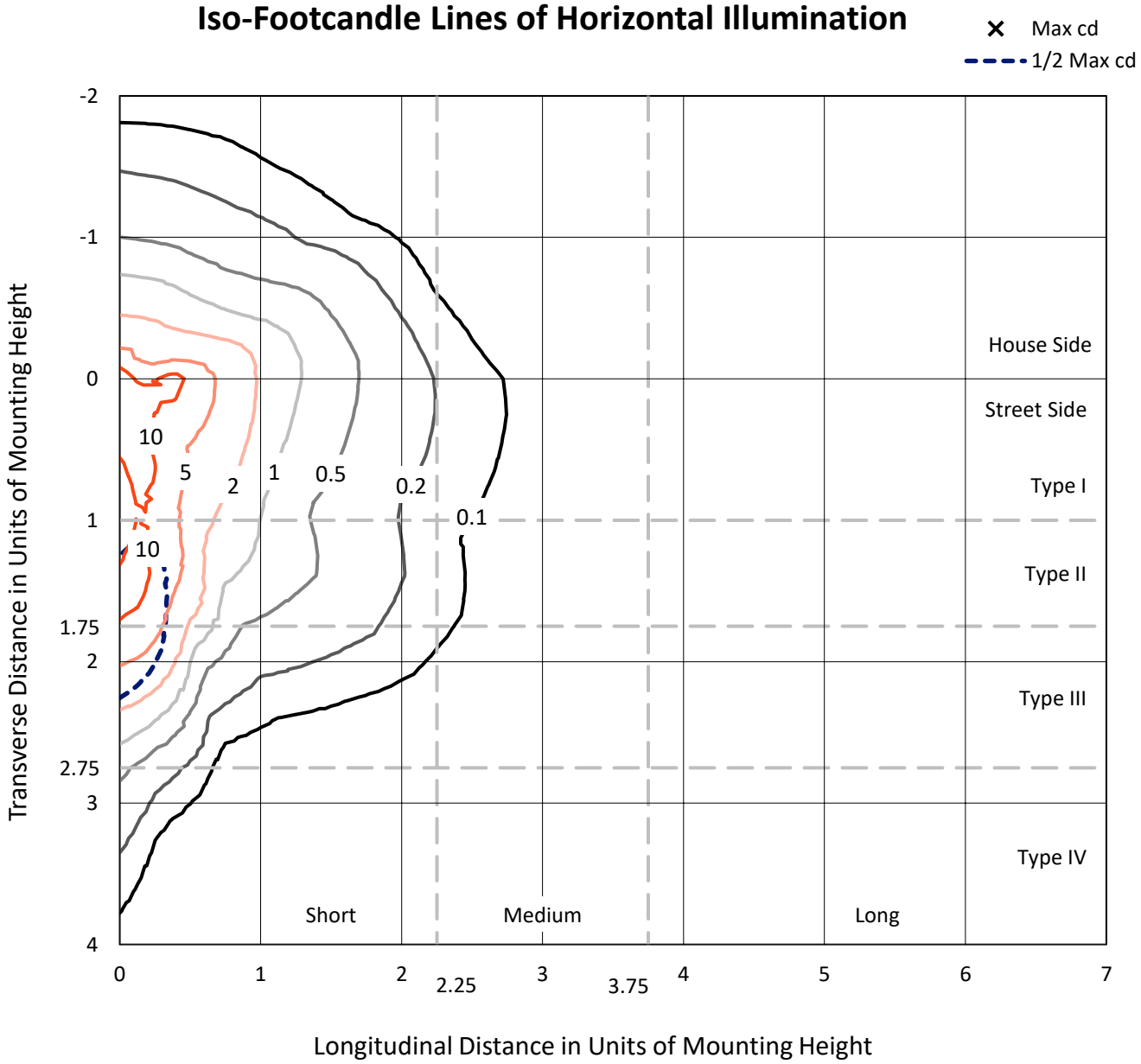


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Iso-Footcandle Lines of Horizontal Illumination



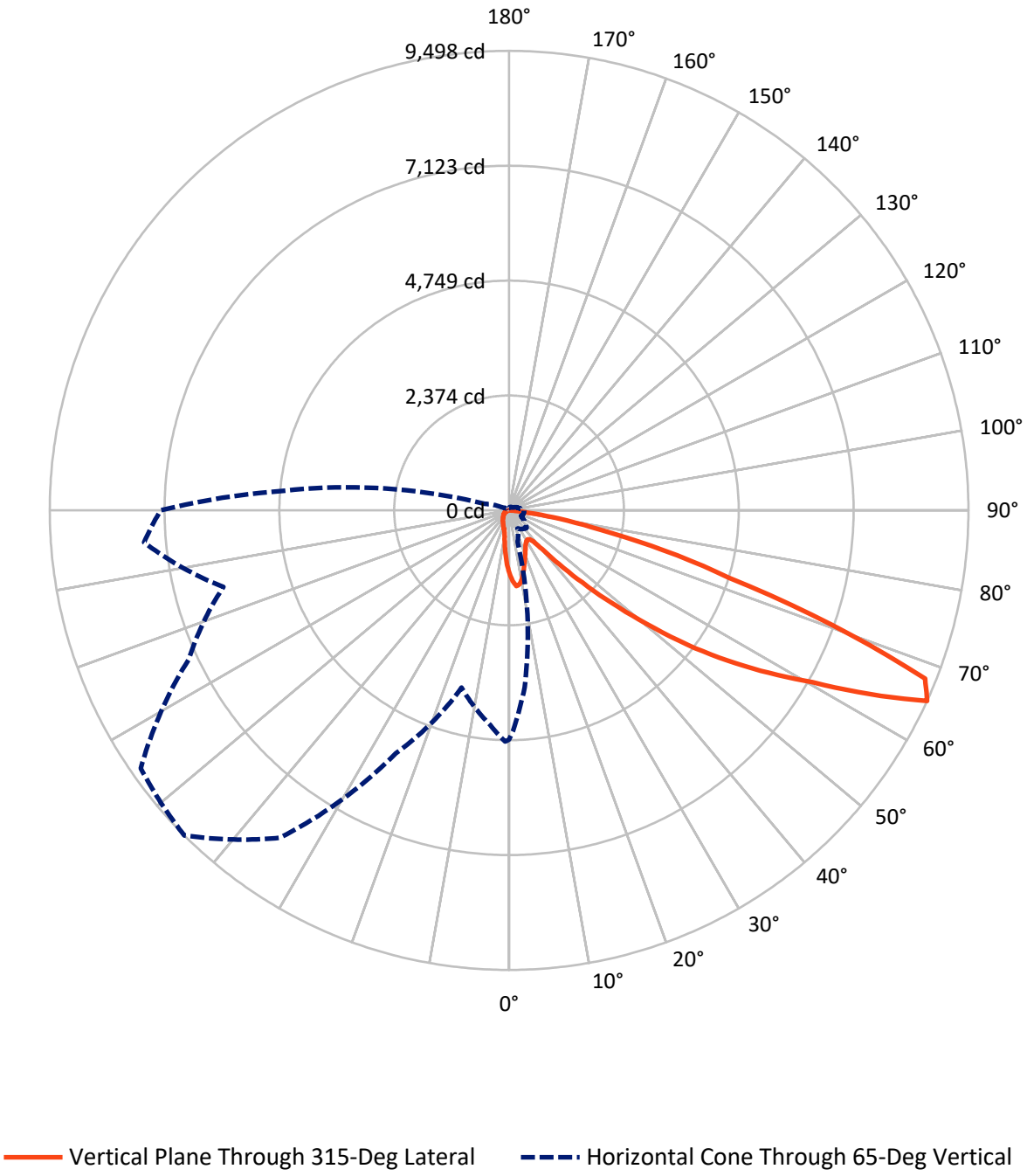
Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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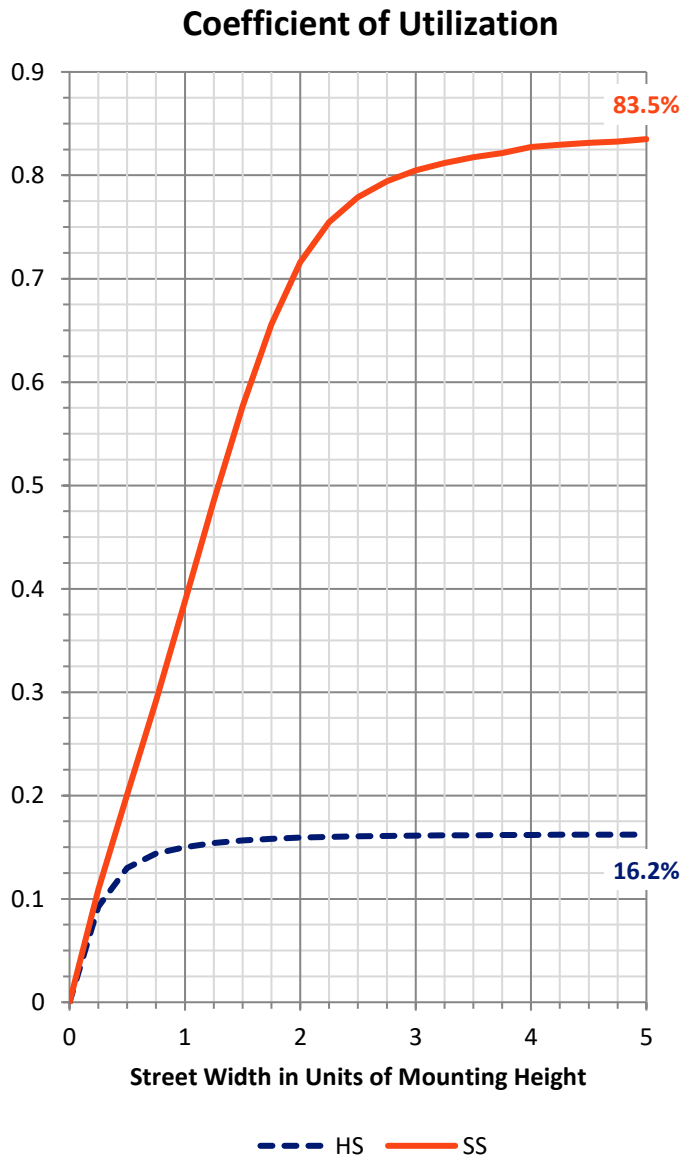
REPORT NUMBER: P1704731
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.5	0.0	1036.5
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	5291.7	0.0	5291.7
	% Fixture	83.6	0.0	83.6
Total	Lumens	6328.2	0.0	6328.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.8
10°-20°	287.0	4.5
20°-30°	390.2	6.2
30°-40°	476.6	7.5
40°-50°	737.9	11.7
50°-60°	1436.0	22.7
60°-70°	1938.9	30.6
70°-80°	879.9	13.9
80°-90°	65.1	1.0
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°	6328.2	100.0
0°-180°	6328.2	100.0



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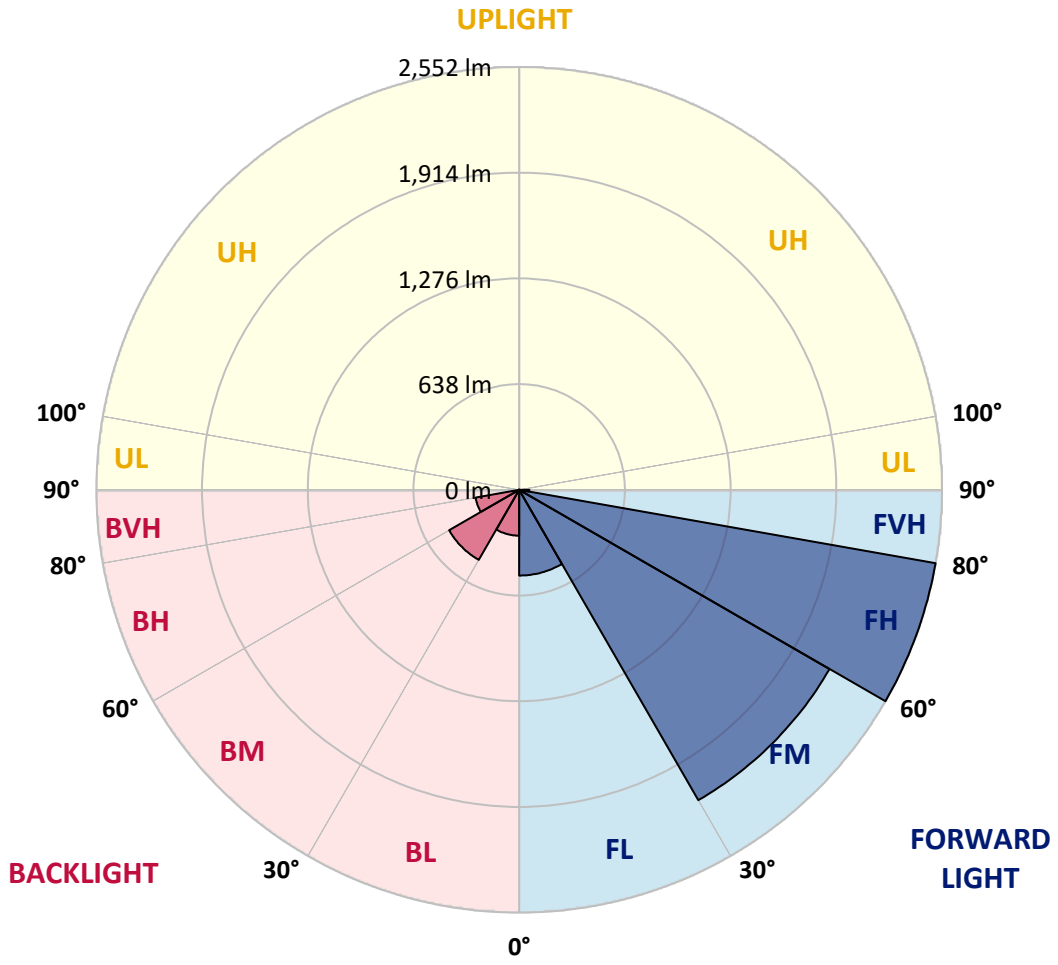
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	517.2	8.2			
FM	(30°-60°)	2162.3	34.2			
FH	(60°-80°)	2551.6	40.3			G2/5000
FVH	(80°-90°)	60.6	1.0			G1/100
BL	(0°-30°)	276.6	4.4	B1/500		
BM	(30°-60°)	488.2	7.7	B1/1000		
BH	(60°-80°)	267.2	4.2	B1/500		G1/500
BVH	(80°-90°)	4.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1
2.5°	1436.3	1424.5	1420.5	1396.9	1373.2	1353.5	1321.9	1298.2	1262.7	1239.0	1215.4
5°	1523.1	1515.2	1511.3	1452.1	1416.6	1369.2	1317.9	1258.8	1199.6	1148.3	1081.2
7.5°	1562.6	1542.9	1535.0	1479.7	1420.5	1369.2	1314.0	1246.9	1168.0	1093.0	994.4
10°	1558.6	1546.8	1550.8	1499.5	1424.5	1357.4	1298.2	1250.9	1183.8	1104.9	978.6
12.5°	1554.7	1546.8	1566.5	1519.2	1436.3	1365.3	1302.2	1266.6	1219.3	1168.0	1049.6
15°	1523.1	1535.0	1570.5	1546.8	1440.3	1365.3	1294.3	1243.0	1239.0	1270.6	1203.5
17.5°	1515.2	1523.1	1574.4	1566.5	1456.1	1353.5	1250.9	1215.4	1266.6	1369.2	1377.1
20°	1499.5	1515.2	1590.2	1590.2	1463.9	1306.1	1164.1	1144.3	1258.8	1412.6	1487.6
22.5°	1483.7	1503.4	1590.2	1621.8	1467.9	1235.1	1045.7	1061.5	1203.5	1365.3	1475.8
25°	1471.8	1503.4	1617.8	1681.0	1475.8	1171.9	947.0	1002.3	1116.7	1246.9	1337.7
27.5°	1479.7	1511.3	1653.4	1775.7	1503.4	1097.0	891.8	958.9	1045.7	1116.7	1183.8
30°	1499.5	1531.0	1720.4	1866.4	1558.6	1037.8	872.1	939.1	990.4	1025.9	1057.5
32.5°	1535.0	1578.4	1799.4	1980.9	1621.8	1006.2	864.2	907.6	931.2	947.0	951.0
35°	1606.0	1657.3	1901.9	2099.2	1633.6	1025.9	876.0	856.3	864.2	856.3	844.4
37.5°	1696.8	1752.0	2044.0	2233.4	1582.3	1018.1	883.9	801.0	789.2	757.6	749.7
40°	1823.0	1894.1	2237.4	2379.4	1499.5	958.9	887.8	745.8	702.4	670.8	662.9
42.5°	2028.2	2075.6	2493.8	2553.0	1389.0	895.7	844.4	686.6	627.4	595.8	580.1
45°	2265.0	2347.8	2896.3	2734.5	1250.9	820.8	773.4	627.4	564.3	524.8	505.1
47.5°	2659.6	2801.6	3385.6	2971.3	1112.8	753.7	682.6	564.3	493.2	457.7	461.7
50°	3338.3	3531.6	4237.9	3290.9	986.5	714.2	587.9	485.4	430.1	422.2	434.1
52.5°	4383.9	4612.8	5338.9	3547.4	903.6	690.5	524.8	422.2	398.5	398.5	418.3
55°	5670.3	5958.4	6360.9	3322.5	852.3	670.8	513.0	370.9	378.8	382.8	402.5
57.5°	7442.1	7505.2	6948.8	2837.1	753.7	655.0	524.8	347.2	363.0	374.9	390.6
60°	7872.2	7828.8	6597.6	2040.1	647.1	623.5	536.6	347.2	343.3	359.1	370.9
62.5°	6771.2	6637.1	5630.9	1223.2	536.6	556.4	544.5	363.0	311.7	331.5	339.4
65°	*4739.1*	*4565.5*	*3669.7*	*678.7*	*414.3*	*469.6*	*513.0*	*382.8*	*272.3*	*303.8*	*311.7*
67.5°	2789.8	2726.6	1965.1	374.9	284.1	370.9	441.9	382.8	248.6	272.3	280.2
70°	1495.5	1337.7	777.4	205.2	201.2	264.4	363.0	335.4	221.0	244.6	252.5
72.5°	978.6	840.5	374.9	114.4	149.9	185.5	240.7	268.3	205.2	221.0	228.9
75°	623.5	532.7	165.7	71.0	114.4	110.5	181.5	197.3	177.6	189.4	201.2
77.5°	217.0	181.5	55.2	39.5	75.0	78.9	134.2	118.4	138.1	142.1	157.8
80°	90.8	75.0	35.5	31.6	39.5	47.4	94.7	75.0	78.9	98.6	110.5
82.5°	23.7	23.7	15.8	19.7	23.7	27.6	35.5	47.4	47.4	67.1	67.1
85°	7.9	7.9	7.9	11.8	11.8	11.8	19.7	27.6	27.6	35.5	31.6
87.5°	0.0	0.0	0.0	0.0	3.9	3.9	3.9	11.8	11.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1
2.5°	1199.6	1183.8	1164.1	1140.4	1144.3	1128.5	1140.4	1144.3	1160.1	1175.9	1175.9
5°	1045.7	1029.9	974.6	943.1	911.5	915.5	907.6	911.5	947.0	978.6	1002.3
7.5°	947.0	907.6	820.8	761.6	718.2	714.2	706.3	733.9	753.7	797.1	832.6
10°	919.4	852.3	722.1	619.5	564.3	548.5	556.4	560.3	584.0	627.4	655.0
12.5°	958.9	864.2	670.8	524.8	473.5	457.7	453.8	449.8	453.8	481.4	489.3
15°	1116.7	962.8	674.8	481.4	422.2	406.4	390.6	374.9	363.0	367.0	374.9
17.5°	1302.2	1132.5	714.2	461.7	406.4	382.8	351.2	335.4	323.6	315.7	315.7
20°	1428.4	1270.6	741.8	445.9	386.7	351.2	327.5	307.8	295.9	292.0	292.0
22.5°	1467.9	1337.7	749.7	438.0	363.0	323.6	303.8	288.1	276.2	272.3	272.3
25°	1377.1	1278.5	714.2	426.2	335.4	295.9	280.2	268.3	256.5	256.5	256.5
27.5°	1199.6	1136.4	659.0	414.3	311.7	276.2	264.4	248.6	240.7	240.7	240.7
30°	1037.8	990.4	603.7	390.6	292.0	256.5	244.6	232.8	224.9	224.9	228.9
32.5°	927.3	864.2	564.3	363.0	280.2	240.7	228.9	221.0	213.1	209.1	213.1
35°	824.7	777.4	540.6	343.3	260.4	224.9	213.1	209.1	197.3	197.3	197.3
37.5°	737.9	702.4	528.8	319.6	248.6	209.1	197.3	193.4	181.5	181.5	185.5
40°	655.0	635.3	509.0	303.8	240.7	197.3	181.5	177.6	169.7	165.7	169.7
42.5°	576.1	572.2	485.4	288.1	224.9	181.5	165.7	161.8	153.9	153.9	157.8
45°	513.0	520.9	457.7	280.2	209.1	169.7	149.9	146.0	138.1	138.1	142.1
47.5°	469.6	477.5	426.2	276.2	201.2	157.8	138.1	130.2	126.3	126.3	134.2
50°	449.8	449.8	406.4	284.1	197.3	149.9	126.3	118.4	114.4	118.4	126.3
52.5°	426.2	438.0	394.6	292.0	181.5	142.1	118.4	110.5	110.5	114.4	118.4
55°	418.3	422.2	374.9	284.1	161.8	134.2	114.4	110.5	110.5	110.5	114.4
57.5°	398.5	406.4	331.5	256.5	142.1	122.3	106.5	102.6	102.6	102.6	106.5
60°	374.9	374.9	292.0	221.0	134.2	114.4	98.6	98.6	98.6	94.7	94.7
62.5°	343.3	323.6	244.6	185.5	118.4	102.6	90.8	90.8	82.9	78.9	78.9
65°	*303.8*	*268.3*	*193.4*	*157.8*	*102.6*	*86.8*	*82.9*	*78.9*	*67.1*	*55.2*	*55.2*
67.5°	264.4	221.0	146.0	126.3	86.8	75.0	71.0	71.0	59.2	47.4	47.4
70°	240.7	181.5	114.4	94.7	71.0	59.2	59.2	59.2	51.3	39.5	39.5
72.5°	217.0	149.9	94.7	78.9	55.2	43.4	51.3	51.3	43.4	31.6	31.6
75°	189.4	122.3	75.0	59.2	39.5	35.5	35.5	39.5	31.6	27.6	23.7
77.5°	149.9	90.8	51.3	35.5	27.6	23.7	27.6	27.6	19.7	15.8	15.8
80°	102.6	55.2	35.5	23.7	19.7	15.8	15.8	11.8	11.8	11.8	7.9
82.5°	59.2	35.5	19.7	15.8	11.8	7.9	3.9	7.9	7.9	7.9	7.9
85°	23.7	15.8	11.8	7.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	11.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0	3.9	3.9	3.9
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°	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1
2.5°	1195.6	1207.5	1246.9	1266.6	1298.2	1325.8	1357.4	1381.1	1412.6	1400.8	1420.5
5°	1022.0	1077.2	1144.3	1211.4	1270.6	1337.7	1396.9	1463.9	1495.5	1507.4	1527.1
7.5°	840.5	927.3	1022.0	1132.5	1219.3	1321.9	1412.6	1495.5	1531.0	1542.9	1558.6
10°	670.8	757.6	872.1	998.3	1128.5	1270.6	1381.1	1491.6	1531.0	1527.1	1535.0
12.5°	520.9	591.9	710.3	852.3	1010.2	1183.8	1357.4	1479.7	1515.2	1491.6	1467.9
15°	386.7	445.9	560.3	710.3	891.8	1089.1	1302.2	1467.9	1475.8	1436.3	1389.0
17.5°	319.6	339.4	406.4	568.2	781.3	1014.1	1246.9	1448.2	1440.3	1385.0	1317.9
20°	288.1	292.0	299.9	390.6	643.2	923.4	1191.7	1428.4	1416.6	1337.7	1246.9
22.5°	272.3	272.3	272.3	284.1	438.0	789.2	1140.4	1408.7	1392.9	1294.3	1191.7
25°	256.5	256.5	256.5	256.5	288.1	607.7	1057.5	1396.9	1381.1	1266.6	1152.2
27.5°	240.7	248.6	244.6	244.6	248.6	434.1	927.3	1389.0	1381.1	1243.0	1128.5
30°	228.9	232.8	232.8	228.9	232.8	272.3	781.3	1365.3	1377.1	1235.1	1116.7
32.5°	217.0	221.0	221.0	217.0	217.0	228.9	647.1	1337.7	1396.9	1243.0	1120.6
35°	201.2	209.1	209.1	205.2	205.2	213.1	513.0	1314.0	1436.3	1278.5	1140.4
37.5°	189.4	193.4	193.4	193.4	193.4	201.2	402.5	1286.4	1483.7	1310.1	1168.0
40°	173.6	181.5	181.5	181.5	181.5	189.4	363.0	1262.7	1538.9	1357.4	1227.2
42.5°	161.8	169.7	169.7	169.7	173.6	181.5	339.4	1231.1	1649.4	1456.1	1314.0
45°	149.9	153.9	157.8	157.8	157.8	173.6	307.8	1266.6	1803.3	1578.4	1440.3
47.5°	134.2	142.1	142.1	146.0	146.0	165.7	264.4	1507.4	2063.7	1732.3	1613.9
50°	126.3	130.2	134.2	134.2	134.2	157.8	268.3	1866.4	2383.4	1961.1	1830.9
52.5°	122.3	126.3	126.3	122.3	122.3	149.9	319.6	2170.3	2864.8	2276.8	2146.6
55°	114.4	118.4	118.4	114.4	110.5	130.2	280.2	2363.6	3488.2	2916.1	2600.4
57.5°	106.5	110.5	110.5	102.6	102.6	110.5	209.1	2332.1	4565.5	4107.7	3527.7
60°	98.6	98.6	102.6	94.7	90.8	98.6	169.7	1980.9	5453.3	6226.7	4995.6
62.5°	82.9	86.8	90.8	86.8	78.9	86.8	138.1	1250.9	5619.0	7690.7	7809.0
65°	*63.1*	*75.0*	*78.9*	*78.9*	*67.1*	*75.0*	*122.3*	*516.9*	*4660.2*	*7205.3*	*7576.2*
67.5°	51.3	63.1	67.1	67.1	59.2	75.0	86.8	177.6	3685.5	6439.8	6862.0
70°	43.4	55.2	59.2	51.3	43.4	63.1	55.2	94.7	2351.8	5252.1	6096.5
72.5°	35.5	47.4	47.4	39.5	31.6	51.3	39.5	63.1	1321.9	4214.3	5346.8
75°	27.6	35.5	35.5	31.6	23.7	31.6	27.6	43.4	662.9	3062.1	4091.9
77.5°	15.8	23.7	27.6	23.7	15.8	19.7	19.7	27.6	256.5	1803.3	2671.4
80°	11.8	15.8	15.8	15.8	11.8	11.8	7.9	15.8	63.1	457.7	805.0
82.5°	7.9	7.9	7.9	7.9	3.9	3.9	3.9	7.9	23.7	110.5	165.7
85°	3.9	7.9	3.9	3.9	0.0	0.0	0.0	0.0	3.9	23.7	39.5
87.5°	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1306.1	1306.1	1306.1	*1306.1*	1306.1	1306.1	1306.1	1306.1	1306.1	1306.1
2.5°	1436.3	1440.3	1452.1	*1463.9*	1452.1	1448.2	1440.3	1432.4	1436.3	1436.3
5°	1546.8	1562.6	1570.5	*1570.5*	1566.5	1558.6	1554.7	1538.9	1519.2	1523.1
7.5°	1554.7	1550.8	1542.9	*1546.8*	1554.7	1562.6	1566.5	1570.5	1554.7	1562.6
10°	1491.6	1460.0	1448.2	*1448.2*	1444.2	1479.7	1507.4	1550.8	1554.7	1558.6
12.5°	1400.8	1341.6	1317.9	*1306.1*	1314.0	1369.2	1432.4	1523.1	1542.9	1554.7
15°	1290.3	1219.3	1183.8	*1171.9*	1195.6	1243.0	1345.6	1471.8	1519.2	1523.1
17.5°	1187.7	1104.9	1065.4	*1053.6*	1085.1	1148.3	1254.8	1444.2	1495.5	1515.2
20°	1100.9	1014.1	962.8	*951.0*	986.5	1077.2	1203.5	1400.8	1479.7	1499.5
22.5°	1033.8	935.2	876.0	*864.2*	907.6	1002.3	1148.3	1365.3	1452.1	1483.7
25°	978.6	872.1	808.9	*793.1*	840.5	958.9	1112.8	1337.7	1444.2	1471.8
27.5°	951.0	832.6	761.6	*749.7*	805.0	919.4	1089.1	1310.1	1436.3	1479.7
30°	931.2	805.0	733.9	*722.1*	785.2	907.6	1077.2	1314.0	1448.2	1499.5
32.5°	931.2	805.0	726.1	*714.2*	781.3	907.6	1085.1	1329.8	1479.7	1535.0
35°	943.1	820.8	741.8	*733.9*	805.0	935.2	1108.8	1361.4	1538.9	1606.0
37.5°	978.6	868.1	824.7	*812.9*	891.8	1006.2	1171.9	1436.3	1629.7	1696.8
40°	1053.6	978.6	1002.3	*1045.7*	1108.8	1164.1	1286.4	1558.6	1744.1	1823.0
42.5°	1168.0	1219.3	1385.0	*1515.2*	1471.8	1416.6	1463.9	1716.5	1941.4	2028.2
45°	1389.0	1602.1	1980.9	*2126.9*	2067.7	1830.9	1716.5	1933.5	2150.5	2265.0
47.5°	1681.0	2075.6	2624.1	*2864.8*	2667.5	2292.6	2004.5	2237.4	2529.4	2659.6
50°	1996.6	2691.1	3413.2	*3681.6*	3322.5	2770.1	2343.9	2600.4	3101.5	3338.3
52.5°	2355.7	3326.4	4309.0	*4608.9*	4076.2	3176.5	2671.4	3235.7	4060.4	4383.9
55°	2651.7	3859.1	5169.2	*5477.0*	4790.4	3507.9	3010.8	4336.6	5445.4	5670.3
57.5°	2987.1	4289.2	5915.0	*6337.2*	5303.4	3799.9	3401.4	5745.3	7102.7	7442.1
60°	3322.5	4869.3	6585.8	*7213.2*	5946.5	4147.2	3859.1	6739.7	7801.1	7872.2
62.5°	4470.8	6009.7	7911.6	*8365.4*	7004.1	4979.8	4478.7	6301.7	6779.1	6771.2
65°	*6116.2*	*7315.8*	*9296.7*	*9497.9*	*8258.9*	*5540.1*	*3792.1*	*4455.0*	*4778.5*	*4739.1*
67.5°	5196.8	7083.0	9174.3	*9276.9*	7844.5	4810.1	2478.1	2916.1	2923.9	2789.8
70°	4431.3	6171.5	8136.5	*7075.1*	6842.3	4170.9	1507.4	1771.7	1582.3	1495.5
72.5°	3669.7	4837.7	6656.8	*4750.9*	5816.3	3429.0	1010.2	1250.9	1053.6	978.6
75°	2947.6	3874.9	4111.7	*3310.7*	3725.0	2758.2	797.1	899.7	702.4	623.5
77.5°	2004.5	2643.8	2012.4	*1921.7*	2549.1	1933.5	323.6	323.6	240.7	217.0
80°	769.5	1171.9	1045.7	*1057.5*	1396.9	958.9	165.7	130.2	94.7	90.8
82.5°	264.4	292.0	355.1	*398.5*	615.6	501.1	75.0	31.6	27.6	23.7
85°	47.4	142.1	146.0	*114.4*	98.6	122.3	19.7	7.9	3.9	7.9
87.5°	0.0	0.0	0.0	*0.0*	3.9	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0

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

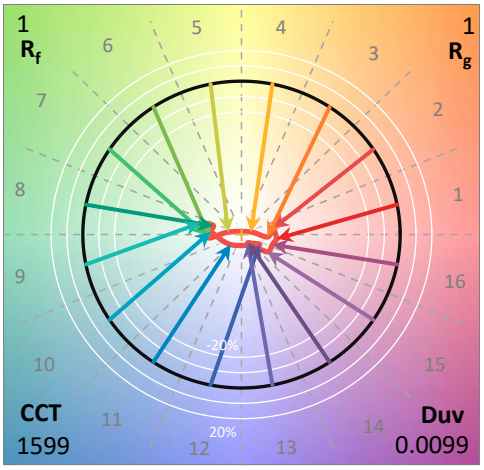
Test Information

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

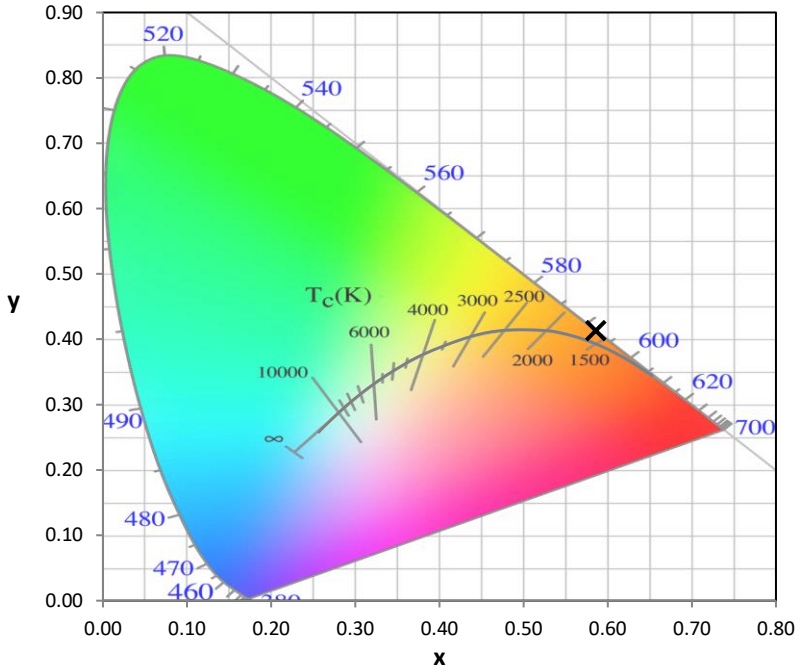
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

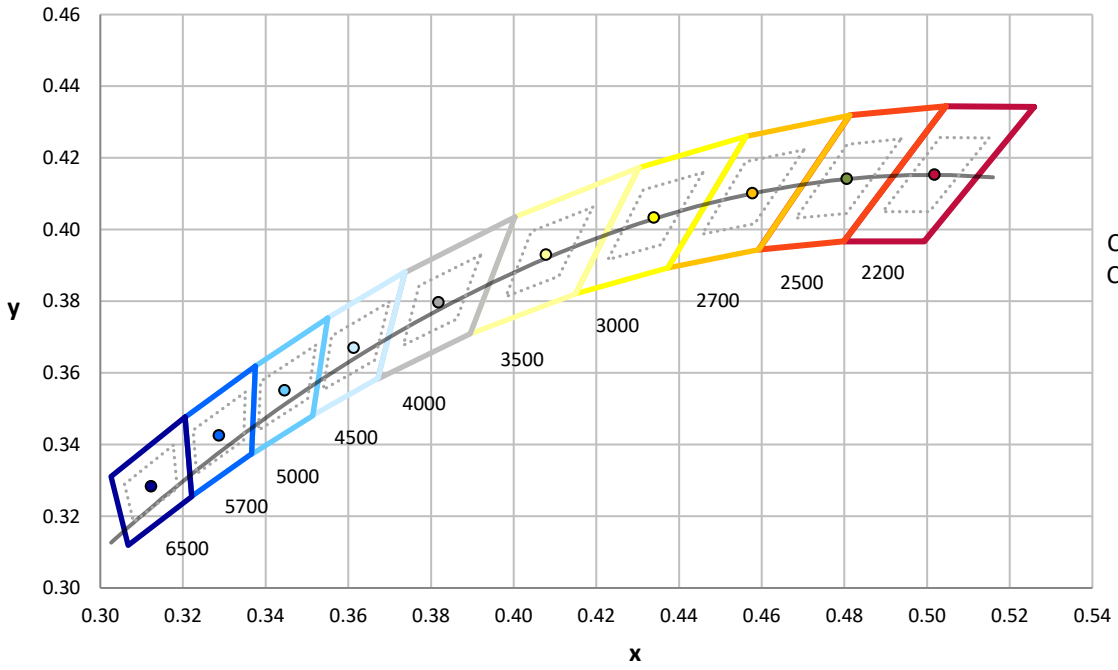
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

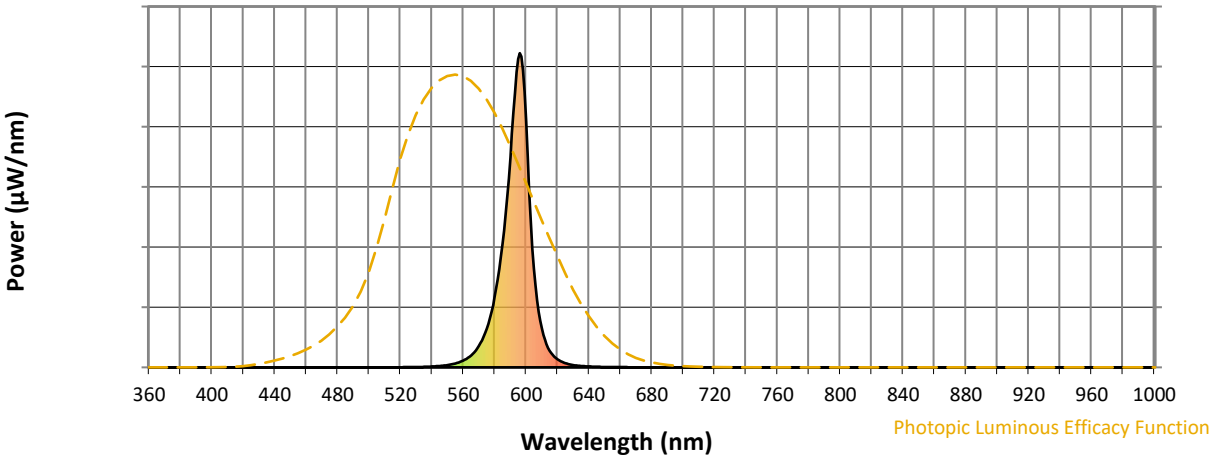


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

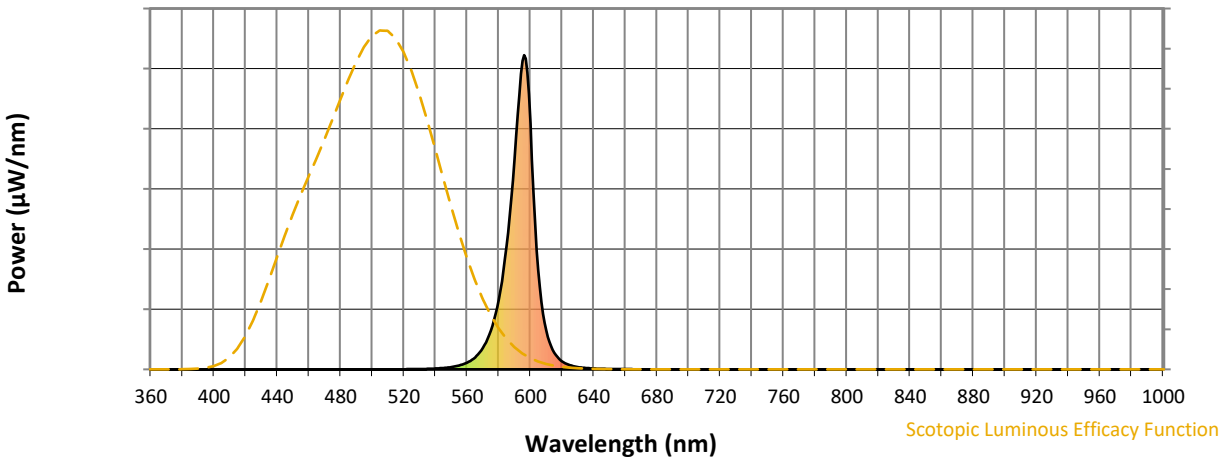


Photopic Lumens: NR

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

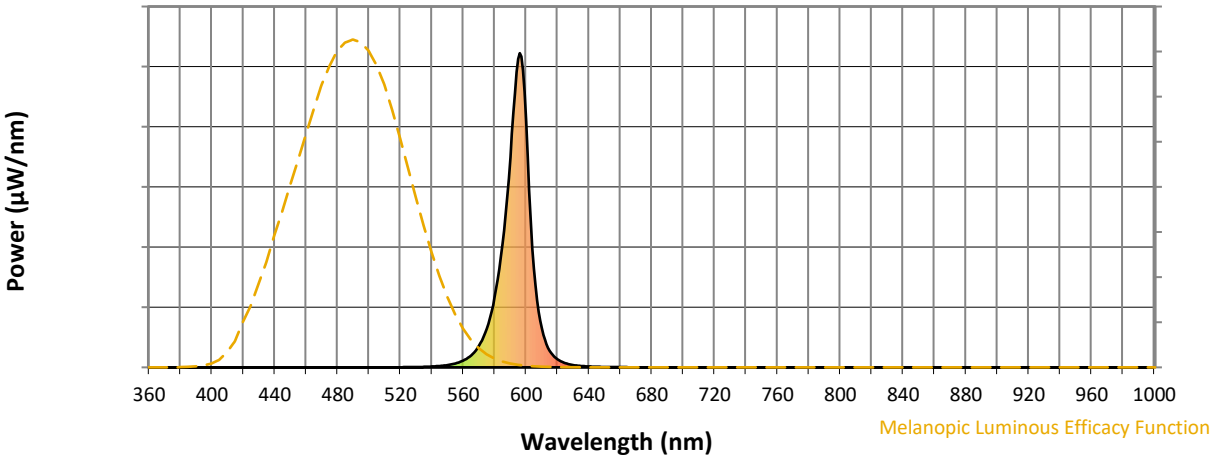


Scotopic Lumens: NR **S/P: 0.23**

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			

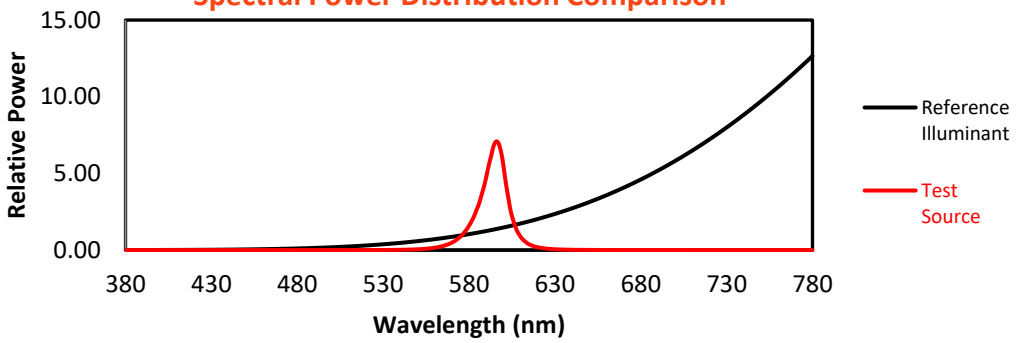
REPORT NUMBER: SP3-2509-541-1

TM-30-18

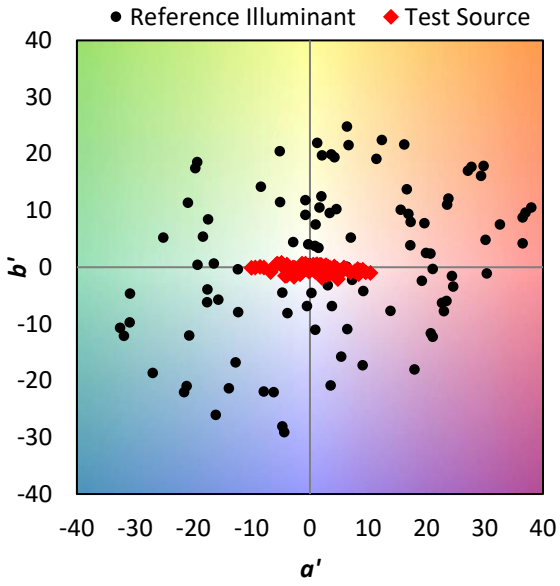
Summary

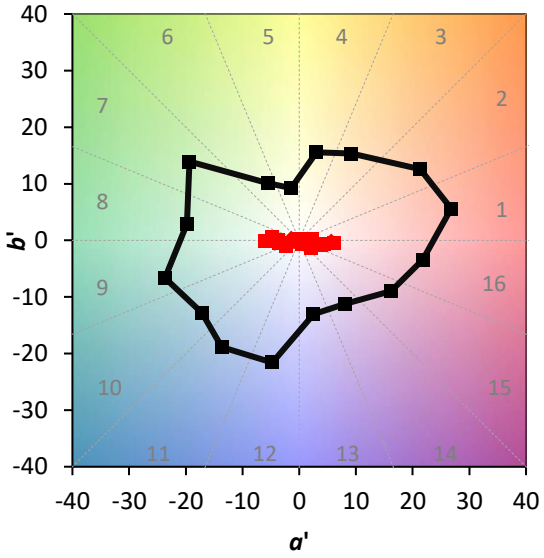
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

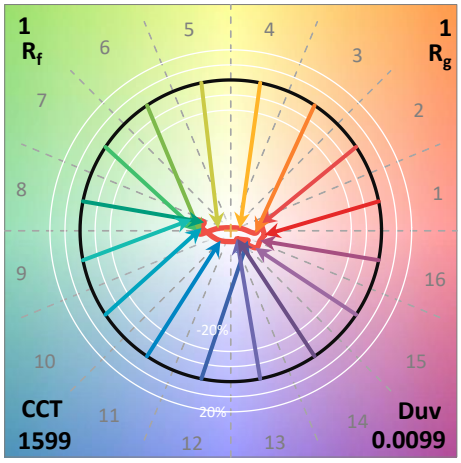
Spectral Power Distribution Comparison

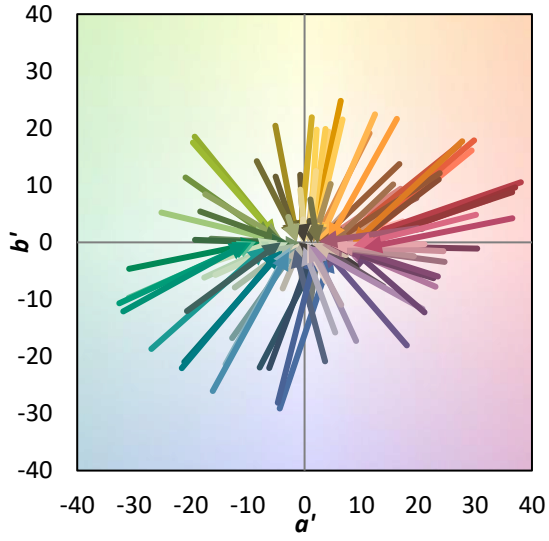


Color Vector Graphics







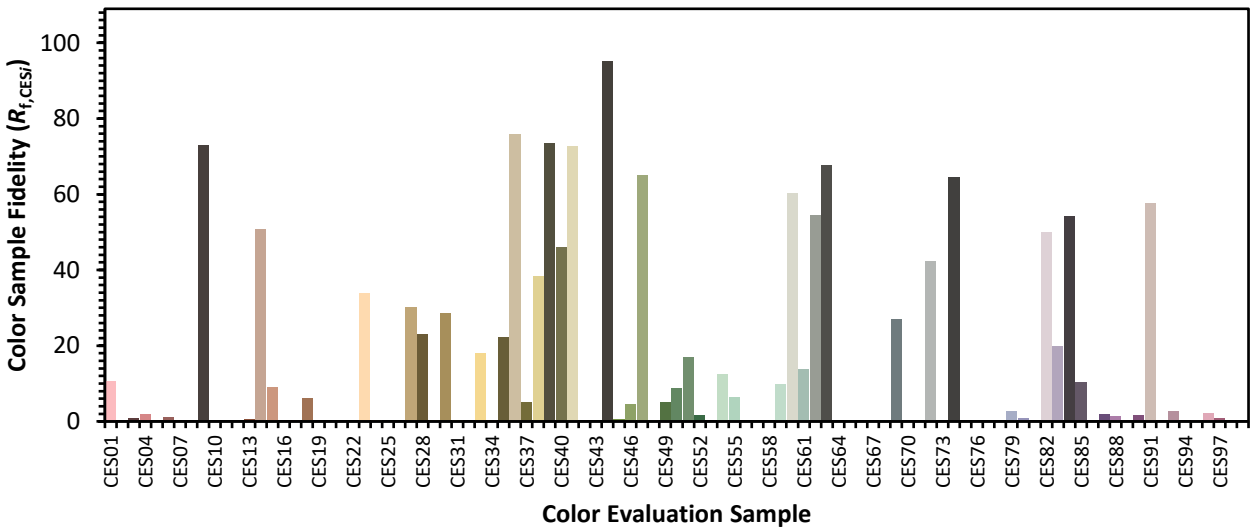


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

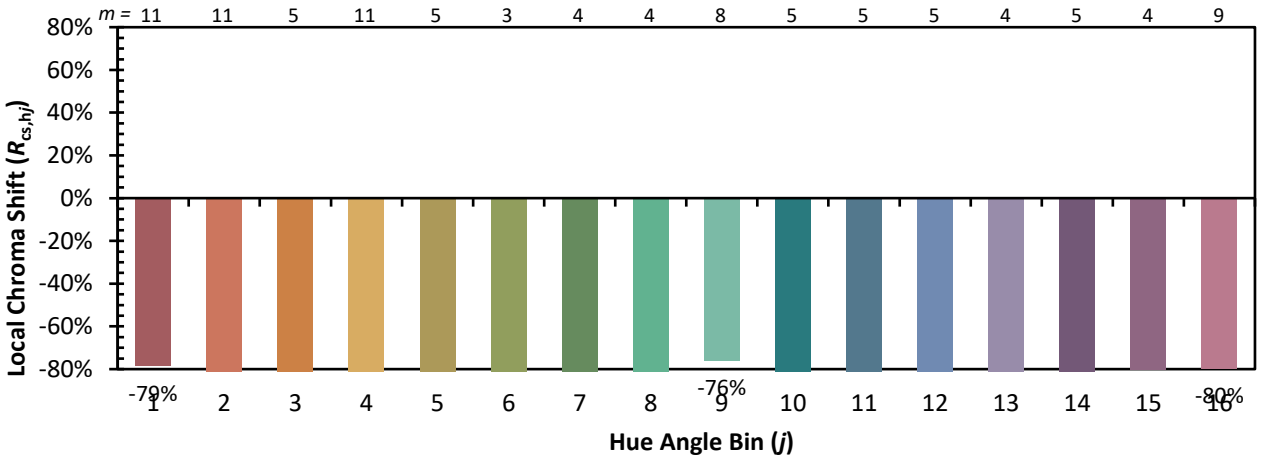
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CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 18	CES58 = 0	CES83 = 20
CES09 = 29	CES34 = 0	CES59 = 10	CES84 = 54
CES10 = 87	CES35 = 22	CES60 = 60	CES85 = 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
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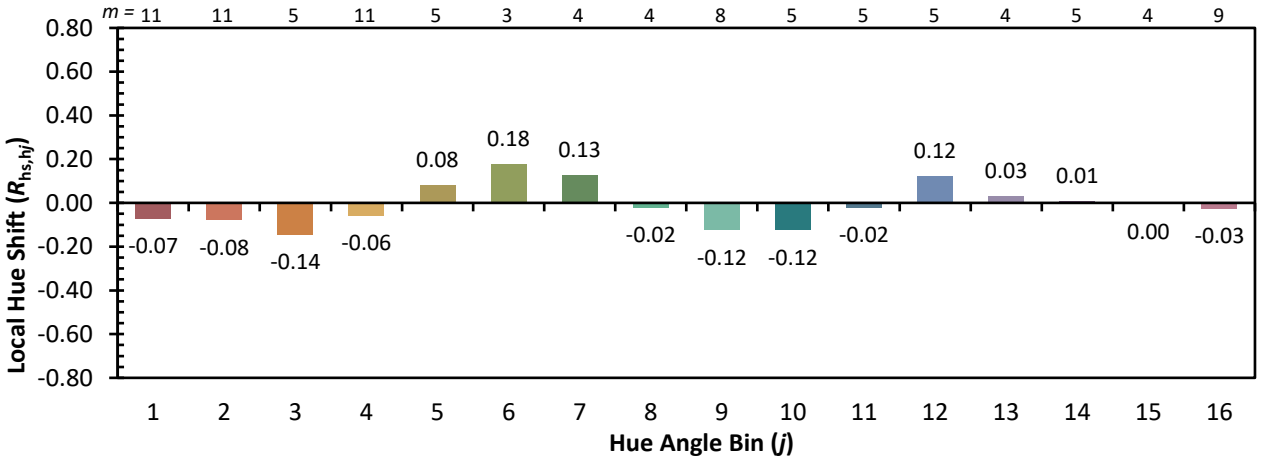


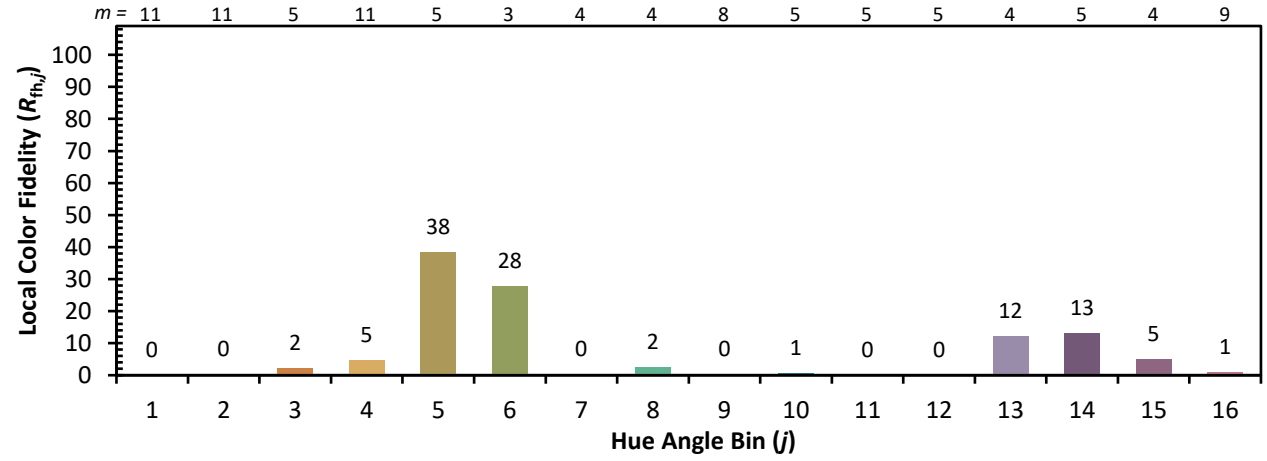
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Color Rendition by Hue-Angle Bin



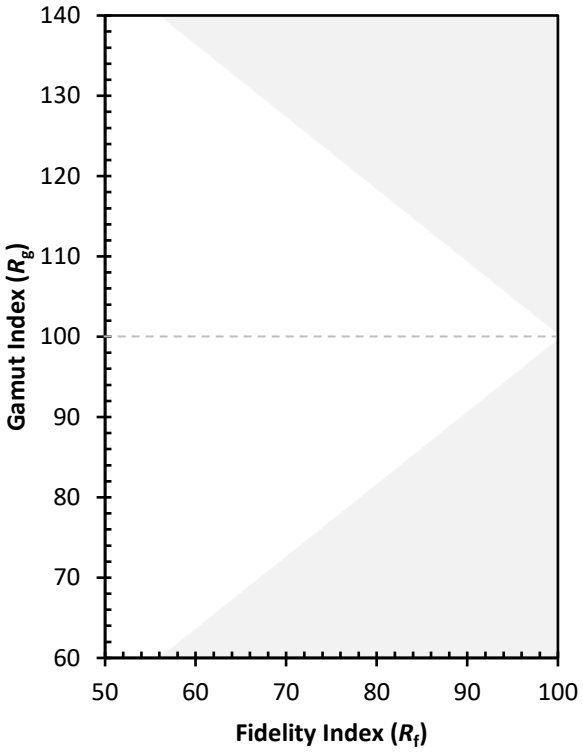


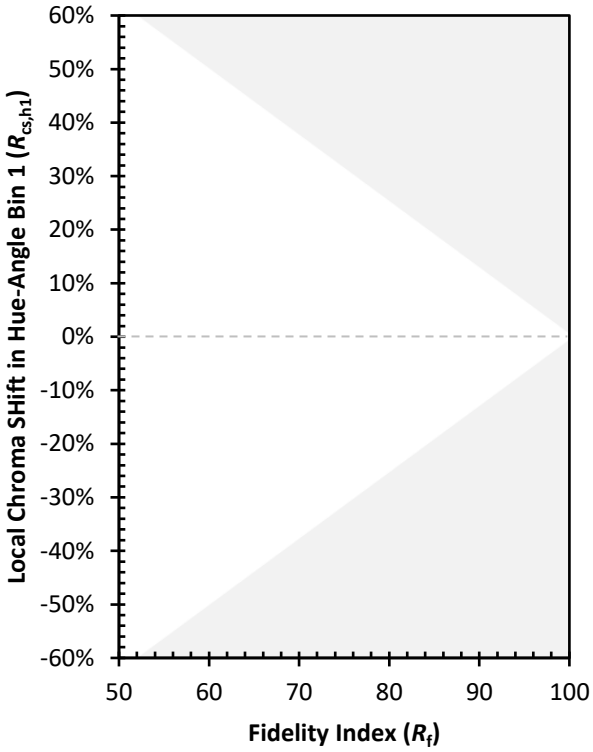


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Measure Comparisons





(END OF REPORT)