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

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-SLR
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 4SQUARE 130W 1590K FIXTURE w/ RIGHT 90 DEG SPILL CONTROL DISTRIBUTION
Light Source:	(104) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8231 lumens
Efficiency:	N/A
Efficacy:	63.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - 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

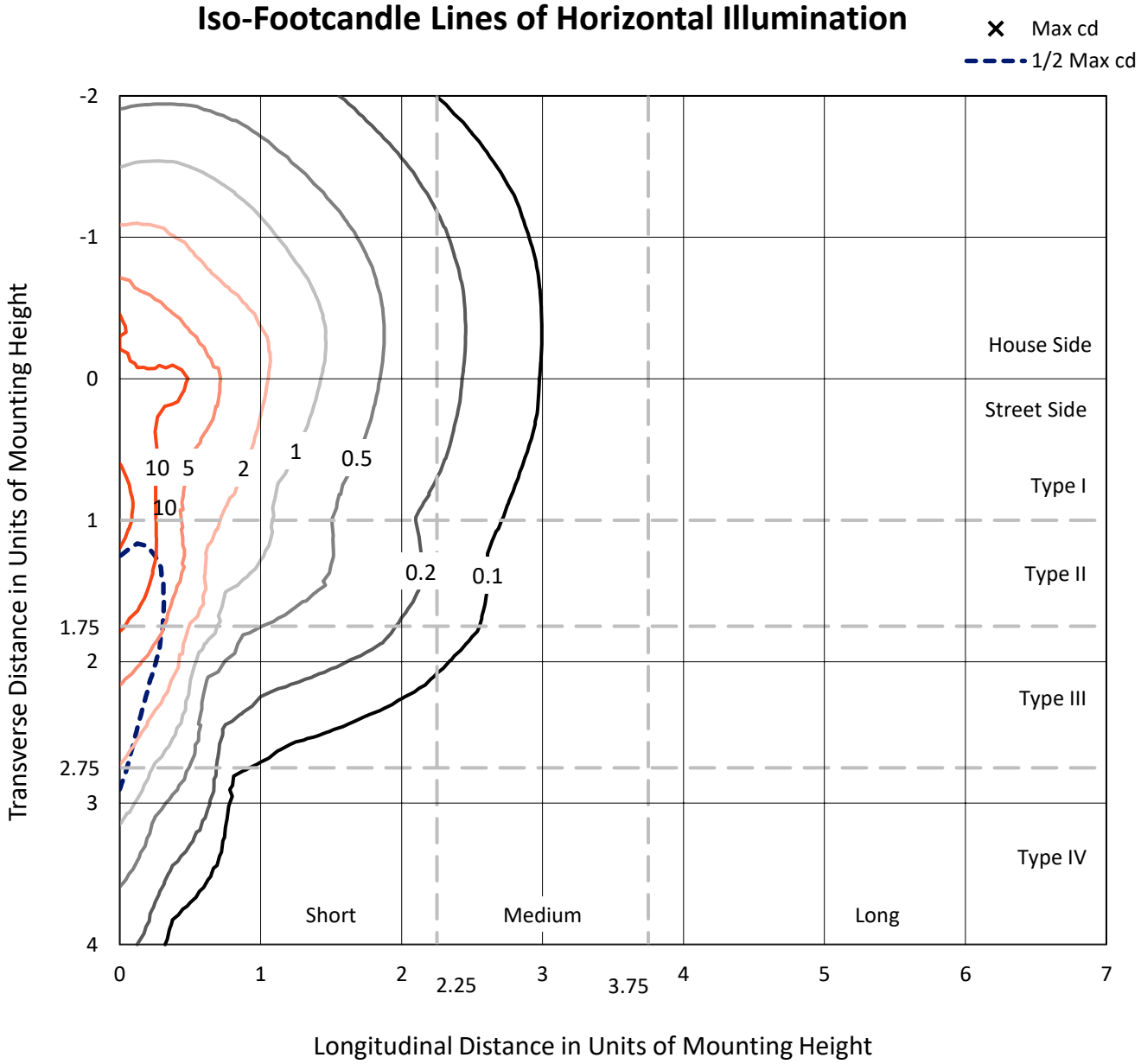


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Iso-Footcandle Lines of Horizontal Illumination



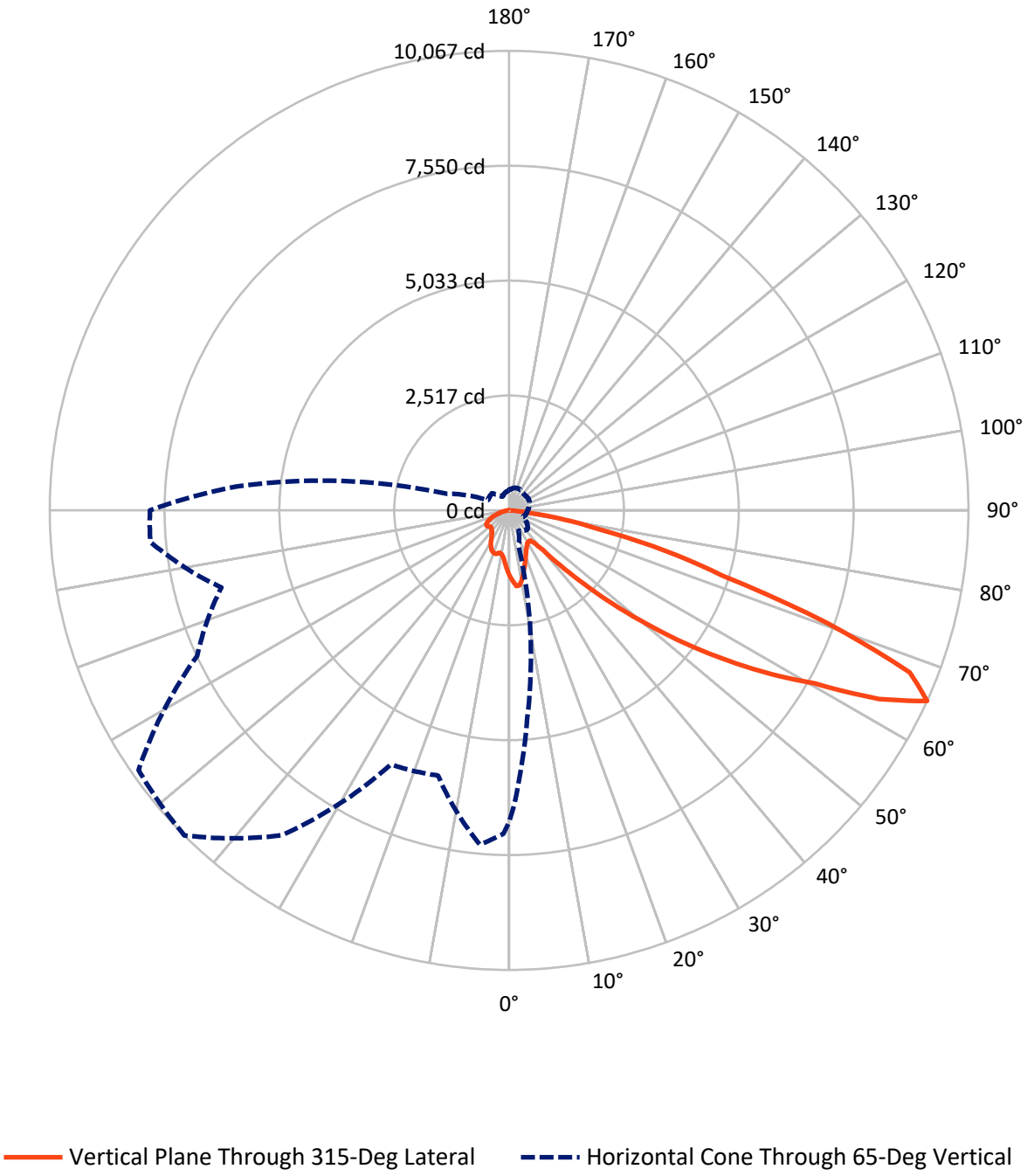
Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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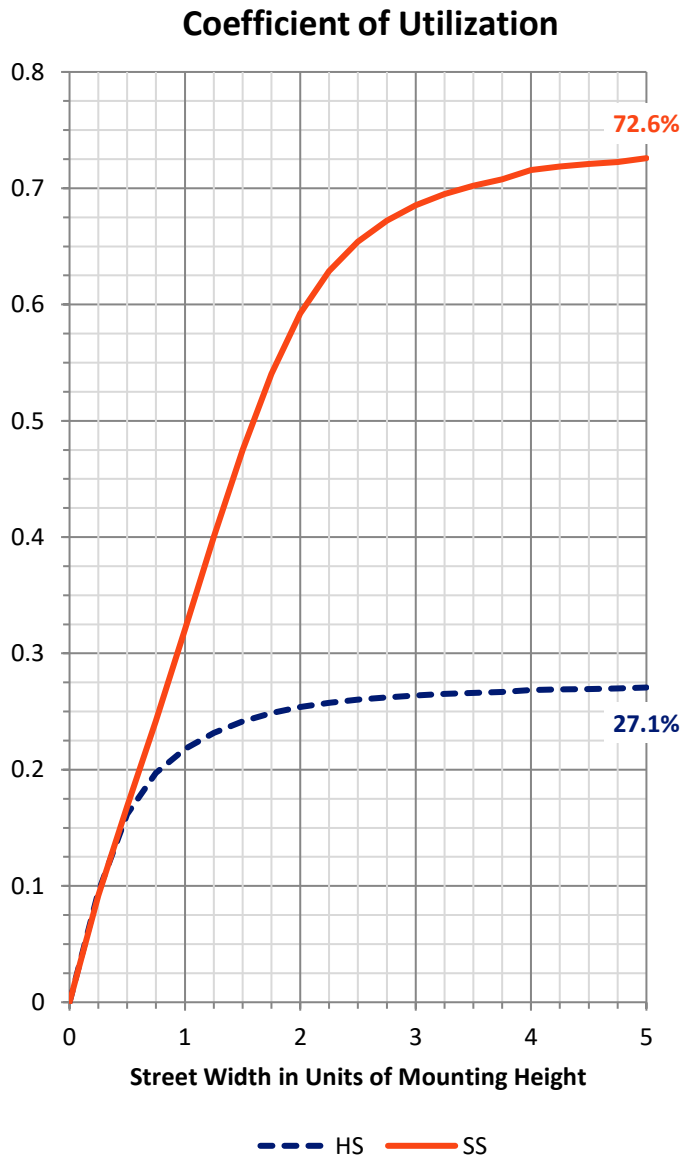
REPORT NUMBER: P1704731
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2246.5	0.0	2246.5
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	5984.5	0.0	5984.5
	% Fixture	72.7	0.0	72.7
Total	Lumens	8231.0	0.0	8231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	1.6
10°-20°	375.4	4.6
20°-30°	570.3	6.9
30°-40°	692.0	8.4
40°-50°	991.8	12.0
50°-60°	1760.0	21.4
60°-70°	2416.1	29.4
70°-80°	1179.7	14.3
80°-90°	113.4	1.4
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°	8231.0	100.0
0°-180°	8231.0	100.0



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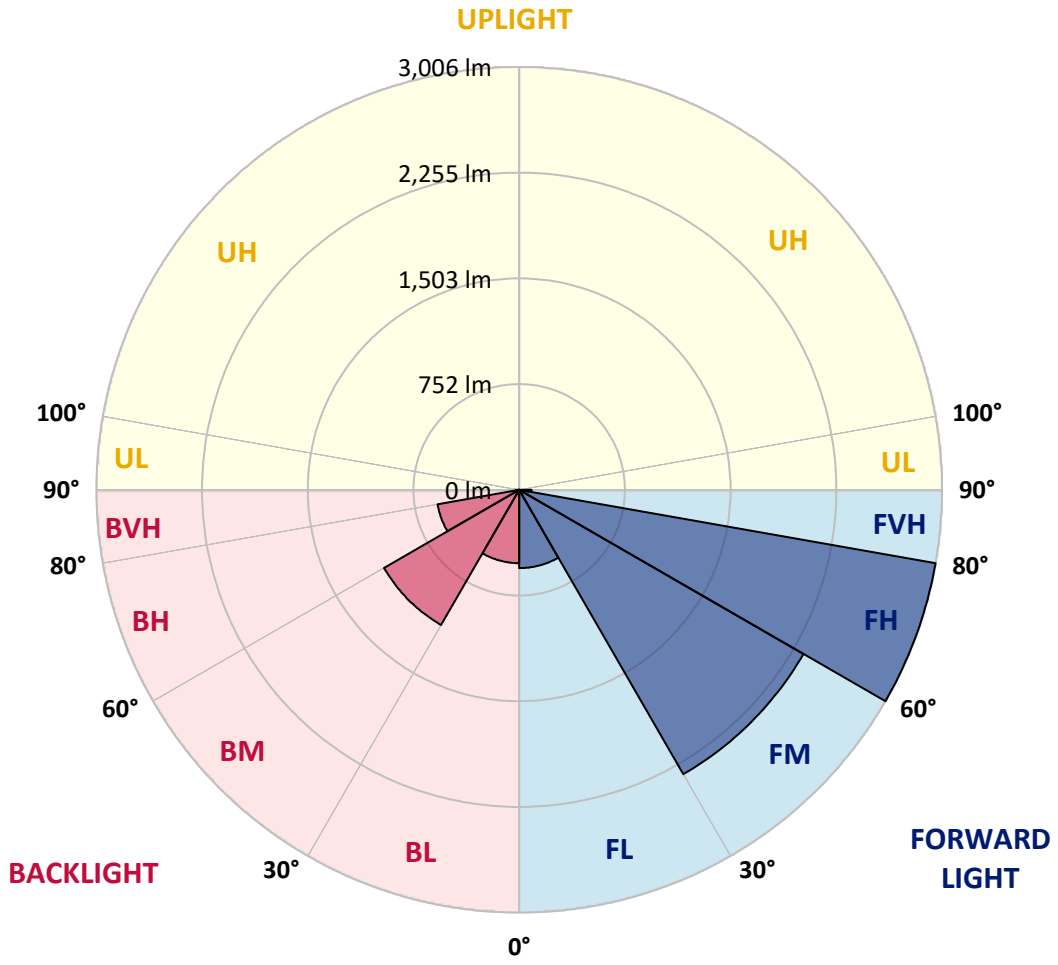
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	556.6	6.8			
FM	(30°-60°)	2334.0	28.4			
FH	(60°-80°)	3006.4	36.5			G2/5000
FVH	(80°-90°)	87.5	1.1			G1/100
BL	(0°-30°)	521.4	6.3	B2/1000		
BM	(30°-60°)	1109.8	13.5	B2/2500		
BH	(60°-80°)	589.3	7.2	B2/1000		G2/1000
BVH	(80°-90°)	26.0	0.3			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1526.0	1526.0	1522.0	1502.3	1474.7	1455.0	1431.3	1403.7	1372.2	1356.4	1344.6
5°	1624.5	1604.8	1593.0	1553.6	1498.4	1451.0	1407.7	1364.3	1313.0	1265.7	1234.2
7.5°	1648.2	1640.3	1640.3	1573.3	1514.1	1451.0	1403.7	1348.5	1281.5	1222.3	1147.4
10°	1648.2	1644.3	1632.4	1600.9	1514.1	1447.1	1403.7	1352.5	1293.3	1218.4	1147.4
12.5°	1636.4	1640.3	1644.3	1608.8	1522.0	1458.9	1399.8	1364.3	1320.9	1273.6	1206.6
15°	1616.7	1620.6	1644.3	1628.5	1537.8	1439.2	1384.0	1340.6	1344.6	1372.2	1336.7
17.5°	1604.8	1604.8	1656.1	1648.2	1541.7	1447.1	1328.8	1293.3	1348.5	1470.8	1486.5
20°	1585.1	1596.9	1664.0	1664.0	1541.7	1380.1	1238.1	1222.3	1336.7	1482.6	1577.2
22.5°	1565.4	1577.2	1671.9	1699.5	1557.5	1332.8	1127.7	1139.5	1273.6	1419.5	1545.7
25°	1549.6	1561.5	1683.7	1766.5	1569.3	1261.8	1041.0	1084.3	1194.7	1301.2	1419.5
27.5°	1545.7	1577.2	1723.1	1857.2	1593.0	1198.7	993.6	1052.8	1127.7	1198.7	1265.7
30°	1561.5	1585.1	1770.4	1940.0	1652.1	1131.7	970.0	1025.2	1076.5	1127.7	1139.5
32.5°	1604.8	1632.4	1857.2	2054.3	1691.6	1115.9	962.1	993.6	1017.3	1025.2	1041.0
35°	1648.2	1695.5	1979.4	2164.7	1711.3	1100.1	966.0	942.4	946.3	942.4	938.4
37.5°	1738.9	1790.1	2113.5	2294.9	1664.0	1072.5	966.0	887.2	867.5	843.8	851.7
40°	1880.8	1924.2	2306.7	2452.6	1573.3	1021.3	942.4	832.0	788.6	765.0	757.1
42.5°	2093.8	2164.7	2598.5	2622.1	1462.9	950.3	899.0	761.0	705.8	686.1	674.3
45°	2397.4	2488.1	3048.0	2882.4	1344.6	871.4	824.1	701.9	638.8	615.1	615.1
47.5°	2913.9	3036.2	3635.5	3209.6	1210.5	820.2	729.5	623.0	563.9	552.0	563.9
50°	3722.2	3880.0	4589.7	3596.1	1092.2	788.6	654.5	544.1	508.7	512.6	540.2
52.5°	4775.0	5023.5	5733.2	3722.2	1021.3	765.0	611.2	485.0	477.1	488.9	520.5
55°	6103.9	6403.5	6703.2	3402.9	930.6	761.0	595.4	445.6	457.4	477.1	508.7
57.5°	7823.0	7791.5	7097.5	2910.0	835.9	745.2	611.2	425.9	433.7	457.4	485.0
60°	8722.0	8461.8	6821.5	2160.8	725.5	697.9	630.9	437.7	414.0	437.7	461.3
62.5°	8110.9	7677.1	5894.9	1388.0	611.2	626.9	630.9	461.3	370.6	402.2	425.9
65°	*6825.4*	*6443.0*	*4566.1*	*808.3*	*492.9*	*544.1*	*579.6*	*477.1*	*335.2*	*370.6*	*394.3*
67.5°	5902.8	5492.7	3462.0	504.7	374.6	433.7	508.7	461.3	307.6	335.2	354.9
70°	4846.0	4380.7	2440.8	347.0	287.8	343.0	421.9	406.1	287.8	299.7	327.3
72.5°	3544.8	3209.6	1419.5	228.7	228.7	252.4	303.6	335.2	268.1	272.1	291.8
75°	2318.5	2034.6	721.6	153.8	169.6	173.5	244.5	260.2	232.6	228.7	252.4
77.5°	1017.3	918.7	311.5	106.5	114.3	122.2	181.4	205.0	185.3	177.4	197.2
80°	457.4	398.2	169.6	78.9	71.0	78.9	114.3	157.7	130.1	130.1	141.9
82.5°	134.1	126.2	90.7	51.3	43.4	47.3	59.1	94.6	94.6	86.7	90.7
85°	51.3	43.4	35.5	19.7	19.7	19.7	27.6	55.2	47.3	43.4	35.5
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	7.9	11.8	11.8	15.8	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1336.7	1320.9	1305.2	1289.4	1301.2	1289.4	1297.3	1305.2	1317.0	1328.8	1332.8
5°	1210.5	1194.7	1167.1	1159.3	1147.4	1147.4	1135.6	1155.3	1171.1	1198.7	1210.5
7.5°	1131.7	1115.9	1072.5	1056.7	1041.0	1033.1	1037.0	1060.7	1076.5	1100.1	1115.9
10°	1104.1	1068.6	1029.1	1001.5	981.8	973.9	973.9	981.8	1001.5	1025.2	1044.9
12.5°	1151.4	1108.0	1033.1	993.6	966.0	950.3	958.2	962.1	977.9	1001.5	1021.3
15°	1281.5	1210.5	1080.4	1021.3	989.7	970.0	966.0	970.0	981.8	1025.2	1056.7
17.5°	1447.1	1344.6	1155.3	1048.9	1009.4	997.6	981.8	989.7	1013.4	1076.5	1143.5
20°	1545.7	1455.0	1198.7	1068.6	1013.4	993.6	993.6	1009.4	1048.9	1175.0	1277.5
22.5°	1553.6	1466.8	1190.8	1048.9	997.6	973.9	981.8	997.6	1060.7	1238.1	1411.6
25°	1455.0	1380.1	1131.7	1005.5	958.2	930.6	934.5	966.0	1033.1	1281.5	1415.6
27.5°	1281.5	1246.0	1017.3	926.6	887.2	875.4	887.2	914.8	985.8	1194.7	1297.3
30°	1139.5	1092.2	906.9	843.8	812.3	808.3	812.3	843.8	895.1	1037.0	1151.4
32.5°	1037.0	977.9	820.2	772.8	749.2	729.5	745.2	776.8	796.5	938.4	1025.2
35°	934.5	906.9	784.7	729.5	686.1	670.3	690.0	701.9	745.2	859.6	918.7
37.5°	847.8	820.2	761.0	701.9	654.5	626.9	642.7	670.3	721.6	808.3	855.6
40°	761.0	757.1	737.4	686.1	626.9	591.5	607.2	662.4	721.6	772.8	792.6
42.5°	694.0	697.9	701.9	658.5	603.3	575.7	587.5	646.7	713.7	733.4	729.5
45°	626.9	654.5	670.3	626.9	575.7	548.1	563.9	626.9	682.1	690.0	674.3
47.5°	587.5	615.1	634.8	599.3	567.8	536.3	556.0	611.2	658.5	662.4	630.9
50°	567.8	591.5	615.1	595.4	567.8	552.0	571.7	626.9	658.5	638.8	615.1
52.5°	544.1	575.7	615.1	603.3	579.6	567.8	595.4	646.7	670.3	634.8	599.3
55°	524.4	556.0	599.3	603.3	583.6	591.5	619.1	646.7	674.3	638.8	591.5
57.5°	508.7	540.2	583.6	587.5	575.7	591.5	615.1	638.8	662.4	611.2	571.7
60°	485.0	508.7	563.9	571.7	563.9	575.7	591.5	623.0	630.9	579.6	540.2
62.5°	445.6	473.2	516.5	540.2	536.3	532.3	544.1	579.6	579.6	528.4	492.9
65°	*402.2*	*425.9*	*465.3*	*488.9*	*492.9*	*477.1*	*500.8*	*520.5*	*512.6*	*469.2*	*449.5*
67.5°	362.8	378.5	410.1	425.9	429.8	421.9	429.8	449.5	433.7	414.0	394.3
70°	327.3	343.0	370.6	378.5	370.6	362.8	366.7	386.4	394.3	374.6	358.8
72.5°	295.7	303.6	323.3	331.2	311.5	280.0	315.4	347.0	354.9	331.2	319.4
75°	256.3	264.2	283.9	283.9	244.5	228.7	248.4	295.7	307.6	287.8	272.1
77.5°	201.1	216.9	240.5	240.5	197.2	181.4	197.2	240.5	240.5	232.6	220.8
80°	141.9	149.8	161.7	161.7	149.8	130.1	138.0	169.6	181.4	181.4	169.6
82.5°	86.7	86.7	102.5	102.5	86.7	78.9	94.6	106.5	110.4	102.5	86.7
85°	31.5	31.5	43.4	47.3	39.4	31.5	31.5	47.3	39.4	31.5	31.5
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°	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1336.7	1360.4	1384.0	1399.8	1427.4	1455.0	1470.8	1494.4	1510.2	1518.1	1526.0
5°	1230.2	1273.6	1320.9	1364.3	1411.6	1478.6	1514.1	1565.4	1596.9	1612.7	1620.6
7.5°	1139.5	1182.9	1265.7	1324.9	1403.7	1478.6	1533.8	1600.9	1628.5	1648.2	1652.1
10°	1076.5	1139.5	1230.2	1332.8	1399.8	1474.7	1537.8	1612.7	1640.3	1644.3	1640.3
12.5°	1060.7	1155.3	1269.7	1356.4	1419.5	1478.6	1537.8	1620.6	1632.4	1616.7	1593.0
15°	1100.1	1226.3	1340.6	1403.7	1451.0	1498.4	1557.5	1628.5	1612.7	1577.2	1522.0
17.5°	1226.3	1395.8	1435.3	1431.3	1474.7	1510.2	1561.5	1628.5	1585.1	1529.9	1466.8
20°	1411.6	1549.6	1482.6	1411.6	1439.2	1498.4	1577.2	1632.4	1561.5	1482.6	1388.0
22.5°	1537.8	1596.9	1462.9	1336.7	1336.7	1458.9	1577.2	1656.1	1545.7	1439.2	1336.7
25°	1518.1	1502.3	1360.4	1238.1	1202.6	1395.8	1581.2	1683.7	1545.7	1415.6	1289.4
27.5°	1391.9	1352.5	1238.1	1151.4	1088.3	1305.2	1593.0	1738.9	1565.4	1407.7	1269.7
30°	1210.5	1214.5	1159.3	1072.5	1005.5	1234.2	1612.7	1833.5	1604.8	1407.7	1261.8
32.5°	1072.5	1088.3	1064.6	1025.2	958.2	1159.3	1675.8	1947.9	1656.1	1415.6	1257.8
35°	958.2	973.9	981.8	954.2	922.7	1096.2	1754.7	2070.1	1731.0	1462.9	1273.6
37.5°	867.5	879.3	895.1	891.1	903.0	1084.3	1794.1	2180.5	1821.7	1498.4	1301.2
40°	788.6	788.6	816.2	820.2	879.3	1048.9	1774.4	2283.0	1924.2	1561.5	1364.3
42.5°	717.6	713.7	729.5	765.0	879.3	997.6	1683.7	2393.4	2066.2	1664.0	1455.0
45°	654.5	642.7	666.4	705.8	855.6	918.7	1553.6	2519.6	2259.4	1805.9	1589.1
47.5°	603.3	583.6	603.3	658.5	784.7	824.1	1384.0	2665.5	2472.3	1971.5	1778.3
50°	579.6	536.3	524.4	595.4	686.1	753.1	1226.3	2815.3	2787.7	2223.9	2003.1
52.5°	563.9	504.7	481.1	500.8	591.5	725.5	1064.6	3174.2	3501.4	2697.1	2342.2
55°	552.0	492.9	465.3	445.6	520.5	701.9	946.3	3450.2	4704.1	3887.9	3055.9
57.5°	528.4	469.2	441.6	406.1	524.4	674.3	847.8	3568.5	6230.0	5488.7	4234.8
60°	500.8	449.5	410.1	386.4	528.4	650.6	741.3	3288.5	6896.4	7543.1	5890.9
62.5°	465.3	410.1	374.6	382.5	544.1	591.5	634.8	2421.0	6884.6	8359.3	8607.7
65°	*421.9*	*386.4*	*335.2*	*390.4*	*528.4*	*520.5*	*516.5*	*1399.8*	*6001.3*	*7870.3*	*7894.0*
67.5°	378.5	347.0	307.6	390.4	481.1	449.5	382.5	753.1	4834.2	6975.3	7196.1
70°	343.0	315.4	280.0	347.0	406.1	354.9	283.9	433.7	3434.4	5595.2	6308.9
72.5°	307.6	280.0	256.3	303.6	303.6	268.1	209.0	248.4	2081.9	4175.7	5240.3
75°	260.2	236.6	228.7	268.1	240.5	169.6	161.7	157.7	1084.3	2866.6	3943.1
77.5°	212.9	185.3	177.4	224.8	193.2	118.3	110.4	102.5	477.1	1660.0	2555.1
80°	169.6	141.9	122.2	165.6	134.1	74.9	63.1	67.0	145.9	441.6	725.5
82.5°	82.8	82.8	78.9	110.4	71.0	43.4	35.5	43.4	78.9	141.9	205.0
85°	31.5	31.5	35.5	51.3	27.6	15.8	11.8	15.8	23.7	35.5	43.4
87.5°	3.9	7.9	3.9	3.9	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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1533.8	1541.7	1545.7	1545.7	1553.6	1545.7	1533.8	1529.9	1526.0	1526.0
5°	1640.3	1648.2	1656.1	1664.0	1660.0	1652.1	1632.4	1616.7	1612.7	1624.5
7.5°	1660.0	1656.1	1652.1	1656.1	1644.3	1644.3	1664.0	1652.1	1644.3	1648.2
10°	1608.8	1565.4	1557.5	1541.7	1549.6	1557.5	1608.8	1644.3	1636.4	1648.2
12.5°	1518.1	1455.0	1411.6	1395.8	1411.6	1447.1	1526.0	1612.7	1624.5	1636.4
15°	1419.5	1324.9	1285.4	1273.6	1289.4	1336.7	1423.4	1565.4	1604.8	1616.7
17.5°	1317.0	1226.3	1171.1	1151.4	1179.0	1230.2	1352.5	1522.0	1577.2	1604.8
20°	1222.3	1127.7	1068.6	1044.9	1076.5	1155.3	1285.4	1470.8	1549.6	1585.1
22.5°	1155.3	1044.9	981.8	958.2	997.6	1084.3	1218.4	1427.4	1529.9	1565.4
25°	1104.1	985.8	910.8	891.1	946.3	1025.2	1179.0	1395.8	1506.2	1549.6
27.5°	1068.6	934.5	863.5	843.8	895.1	993.6	1151.4	1360.4	1502.3	1545.7
30°	1048.9	906.9	832.0	812.3	867.5	970.0	1131.7	1360.4	1502.3	1561.5
32.5°	1041.0	903.0	824.1	800.4	867.5	973.9	1127.7	1364.3	1526.0	1604.8
35°	1052.8	922.7	839.9	816.2	891.1	1009.4	1155.3	1399.8	1577.2	1648.2
37.5°	1084.3	973.9	906.9	914.8	973.9	1084.3	1230.2	1478.6	1656.1	1738.9
40°	1159.3	1076.5	1108.0	1135.6	1214.5	1242.1	1360.4	1612.7	1802.0	1880.8
42.5°	1269.7	1336.7	1498.4	1640.3	1636.4	1537.8	1541.7	1786.2	1999.1	2093.8
45°	1494.4	1711.3	2074.0	2287.0	2192.3	1991.2	1821.7	2026.7	2275.1	2397.4
47.5°	1782.3	2239.7	2783.8	3063.8	2886.3	2480.2	2141.1	2381.6	2740.4	2913.9
50°	2113.5	2866.6	3600.0	3903.6	3588.2	2965.2	2503.8	2854.8	3442.3	3722.2
52.5°	2492.0	3462.0	4503.0	4853.9	4357.1	3422.6	2858.7	3607.9	4471.4	4775.0
55°	2779.9	4010.1	5457.2	5792.3	5086.5	3769.6	3241.2	4680.4	5792.3	6103.9
57.5°	3119.0	4510.9	6230.0	6754.5	5638.6	4108.7	3718.3	6186.7	7566.7	7823.0
60°	3576.4	5129.9	7109.3	7696.8	6352.3	4522.7	4443.8	8071.4	8777.2	8722.0
62.5°	5307.4	6423.2	8560.4	9100.6	7696.8	5745.0	6115.7	8710.2	8343.5	8110.9
65°	6525.8	7543.1	9912.8	10066.6	8686.6	6139.3	6013.2	7349.9	7085.7	6825.4
67.5°	5378.3	7042.3	9463.3	9471.2	8095.1	5425.6	4763.2	6502.1	6186.7	5902.8
70°	4499.0	6127.5	8288.3	7405.1	7156.6	4818.4	4073.2	5776.6	5153.6	4846.0
72.5°	3738.0	4751.4	6817.5	4889.4	6040.8	4029.8	3481.7	4735.6	3954.9	3544.8
75°	2925.7	3761.7	4266.4	3536.9	3970.7	3142.6	2716.8	3430.5	2610.3	2318.5
77.5°	1963.6	2499.9	2791.7	2081.9	2704.9	2168.7	1376.1	1593.0	1179.0	1017.3
80°	765.0	1210.5	1537.8	1242.1	1447.1	1190.8	575.7	662.4	488.9	457.4
82.5°	299.7	532.3	694.0	481.1	674.3	630.9	201.1	161.7	138.0	134.1
85°	67.0	280.0	280.0	181.4	205.0	303.6	71.0	51.3	51.3	51.3
87.5°	0.0	0.0	0.0	3.9	3.9	3.9	3.9	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

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

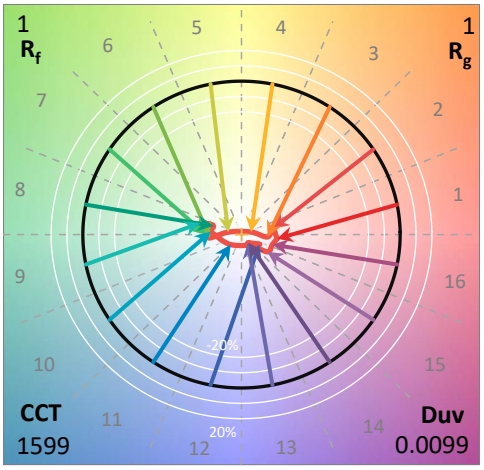
Test Information

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

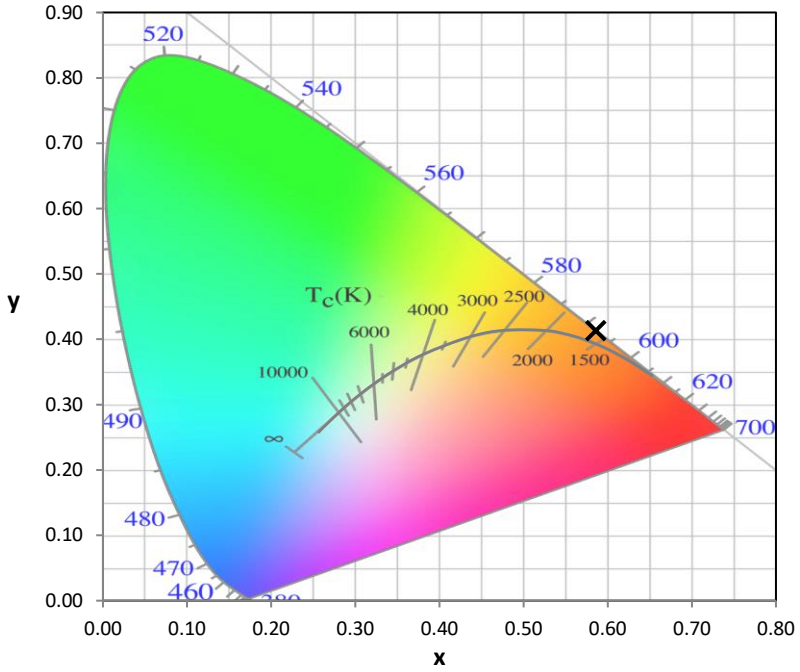
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

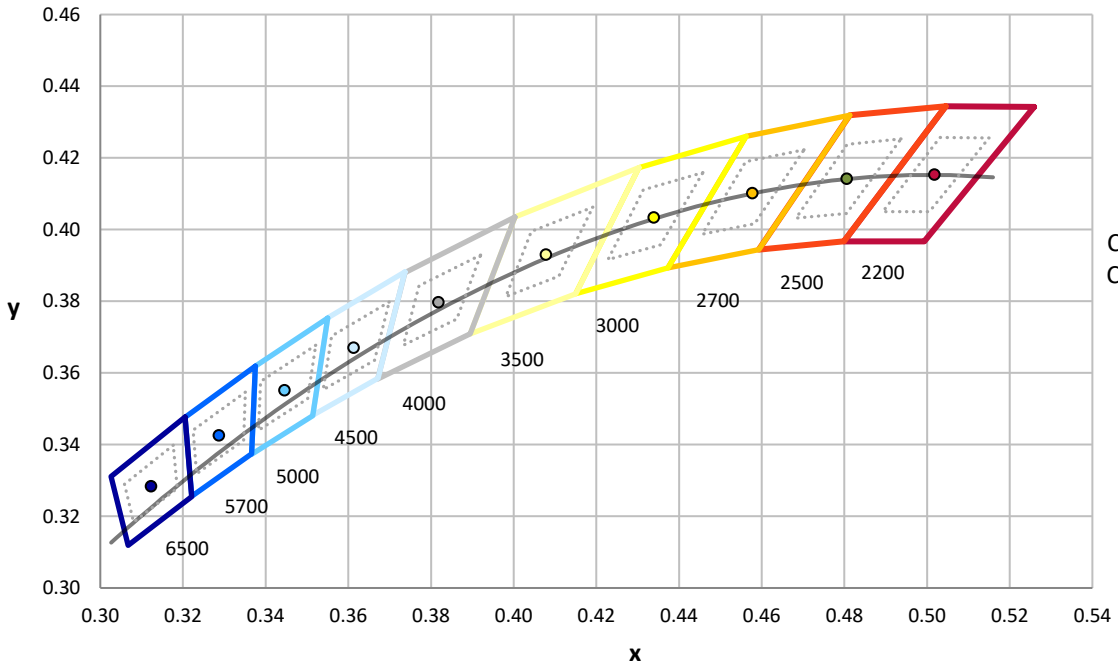
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

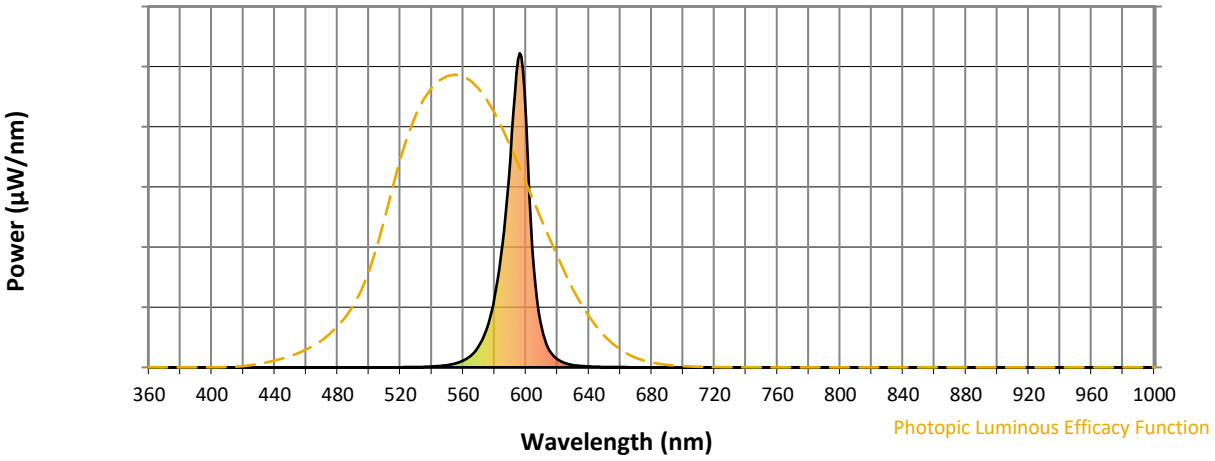


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

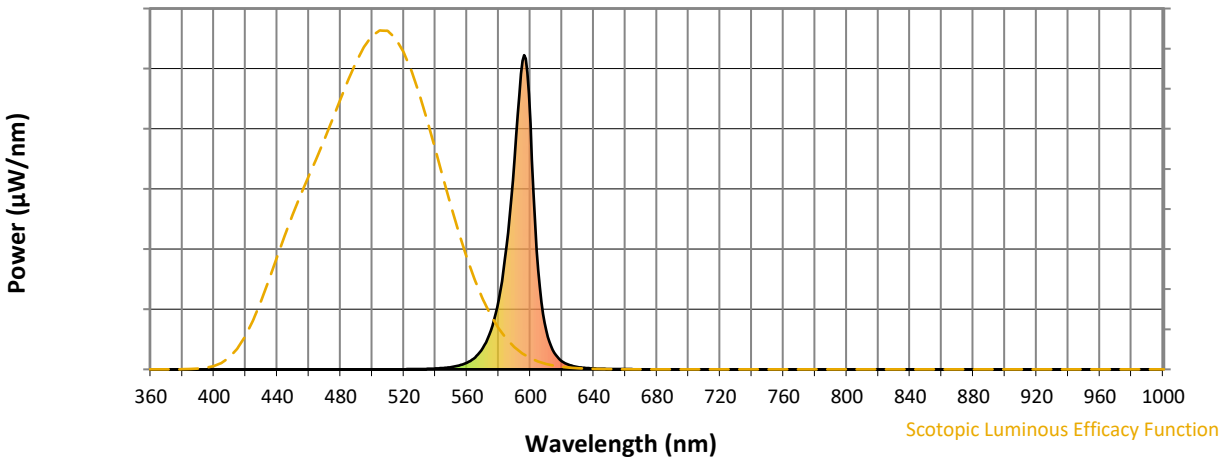


Photopic Lumens: NR

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

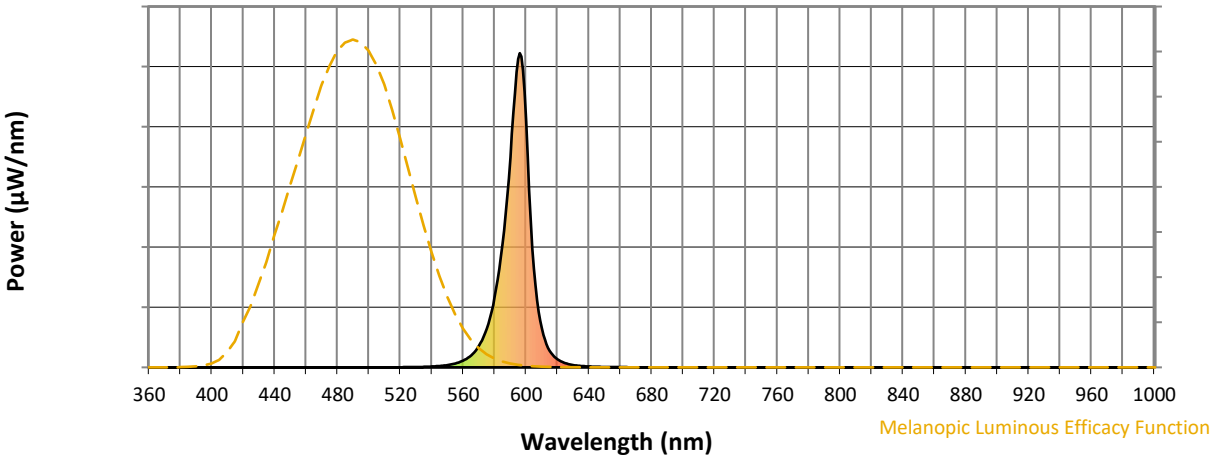


Scotopic Lumens: NR **S/P: 0.23**

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			

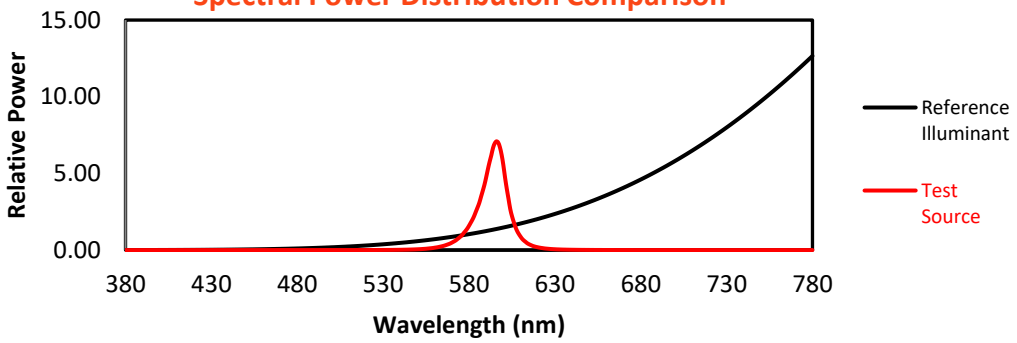
REPORT NUMBER: SP3-2509-541-1

TM-30-18

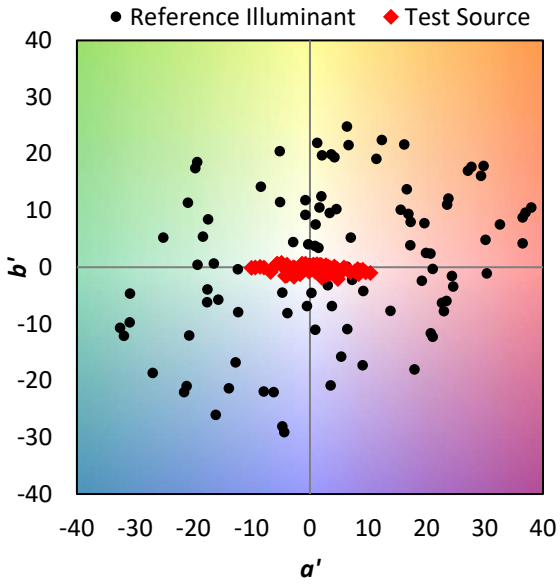
Summary

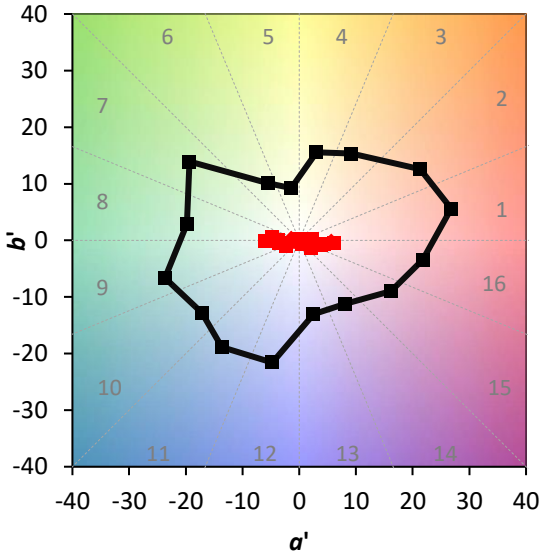
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

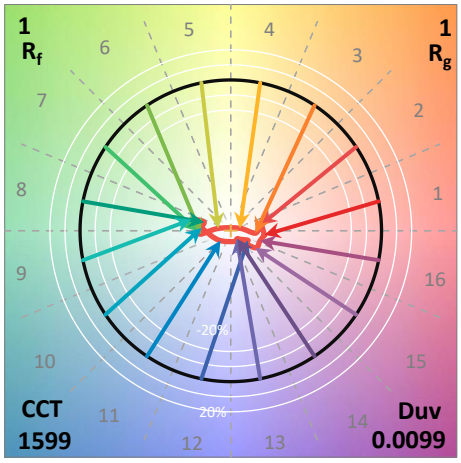
Spectral Power Distribution Comparison

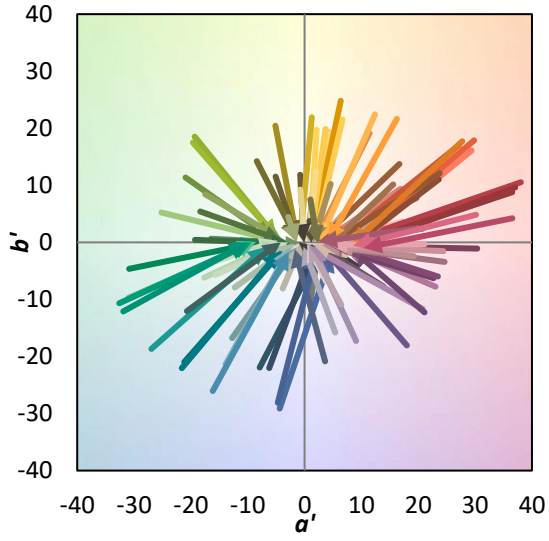


Color Vector Graphics







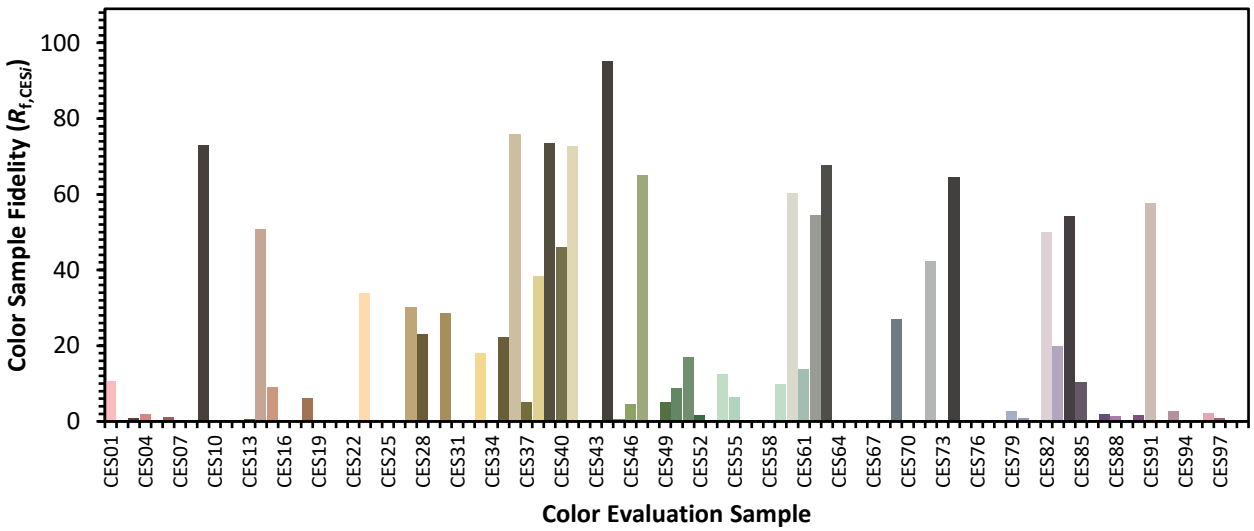


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

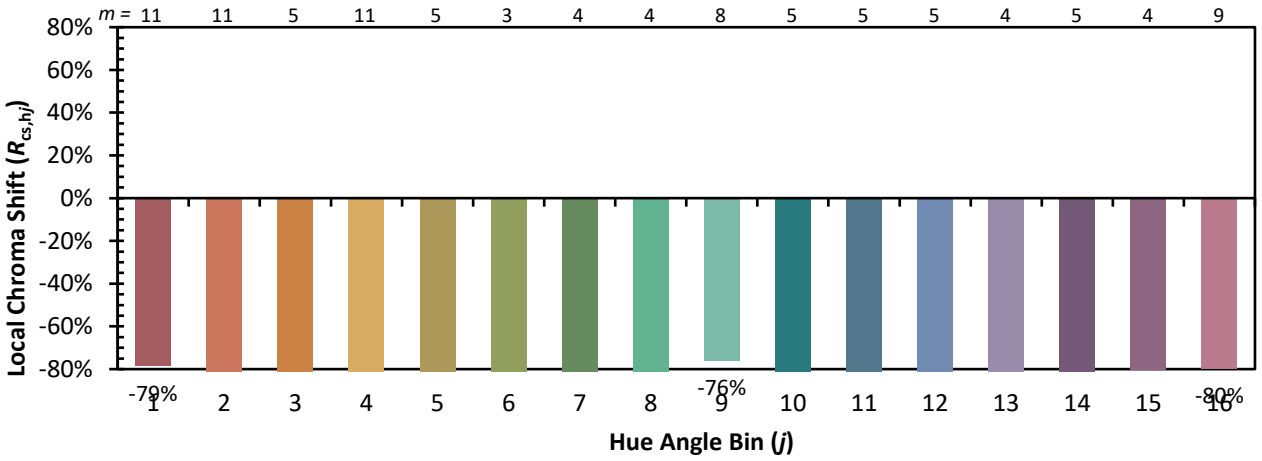
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 =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

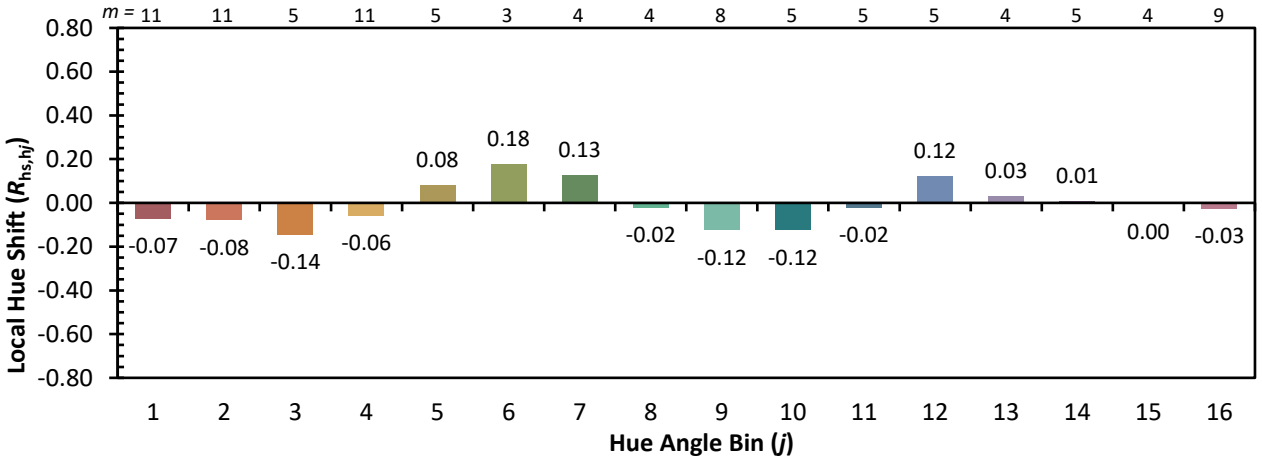


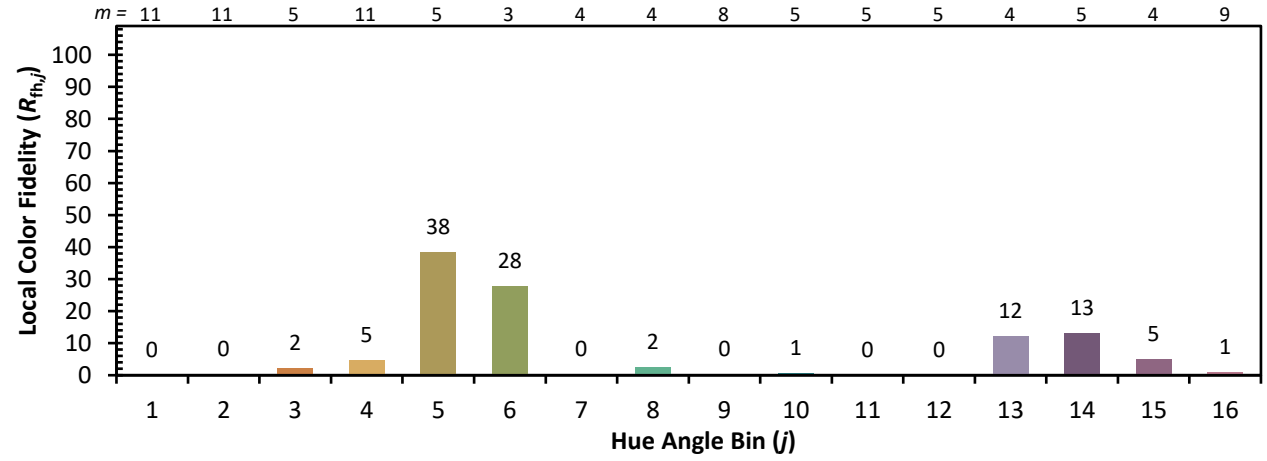
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Color Rendition by Hue-Angle Bin



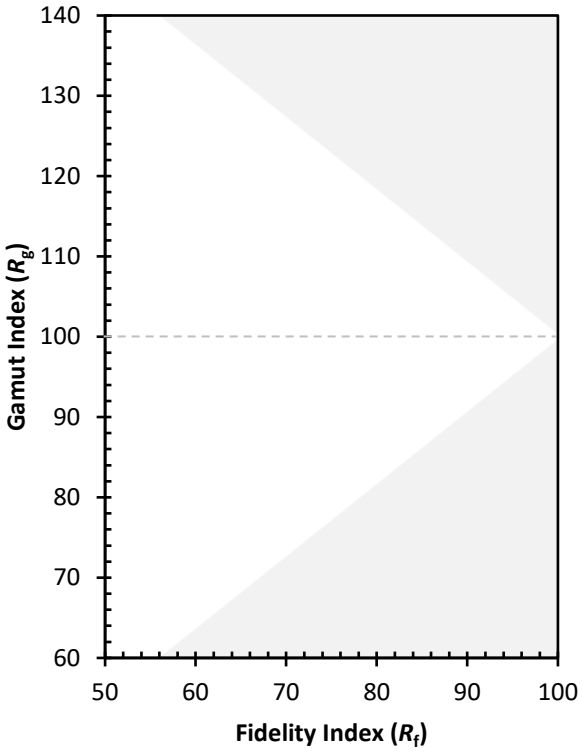


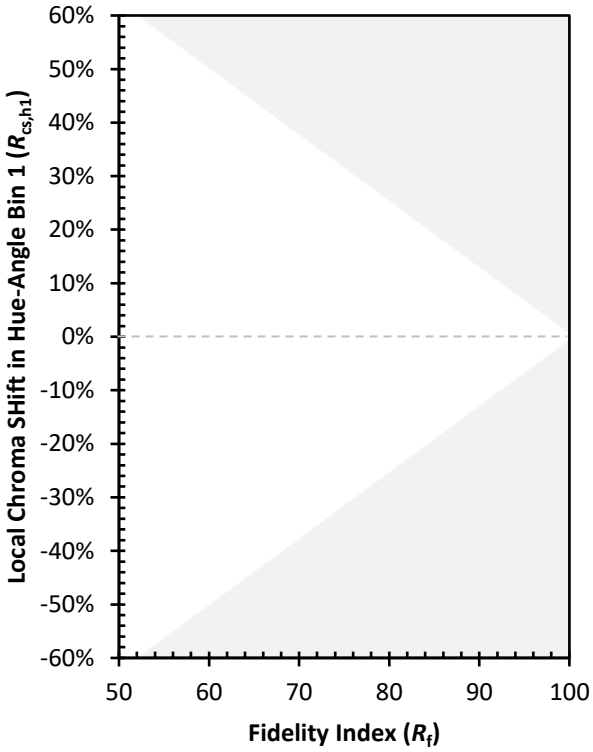


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Measure Comparisons





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