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: P1704732

Luminaire Tested: GSS-SB5A-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:	P1704732
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5A-AMB-U-SLR-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 5SQUARE 161W 1590K FIXTURE w/ RIGHT 90 DEG SPILL CONTROL DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(130) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7527.9 lumens
Efficiency:	N/A
Efficacy:	46.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	160.6
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

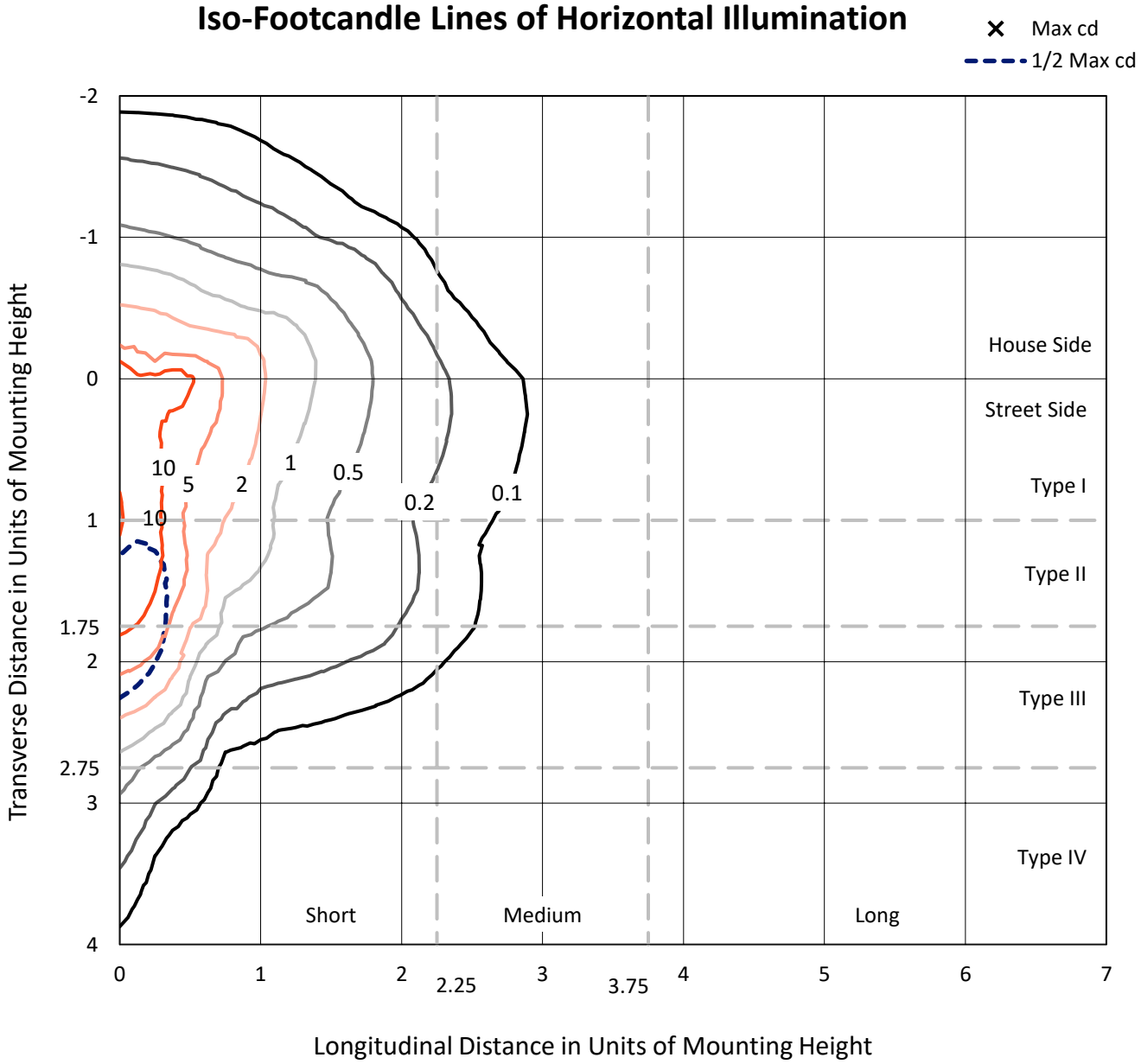


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Iso-Footcandle Lines of Horizontal Illumination



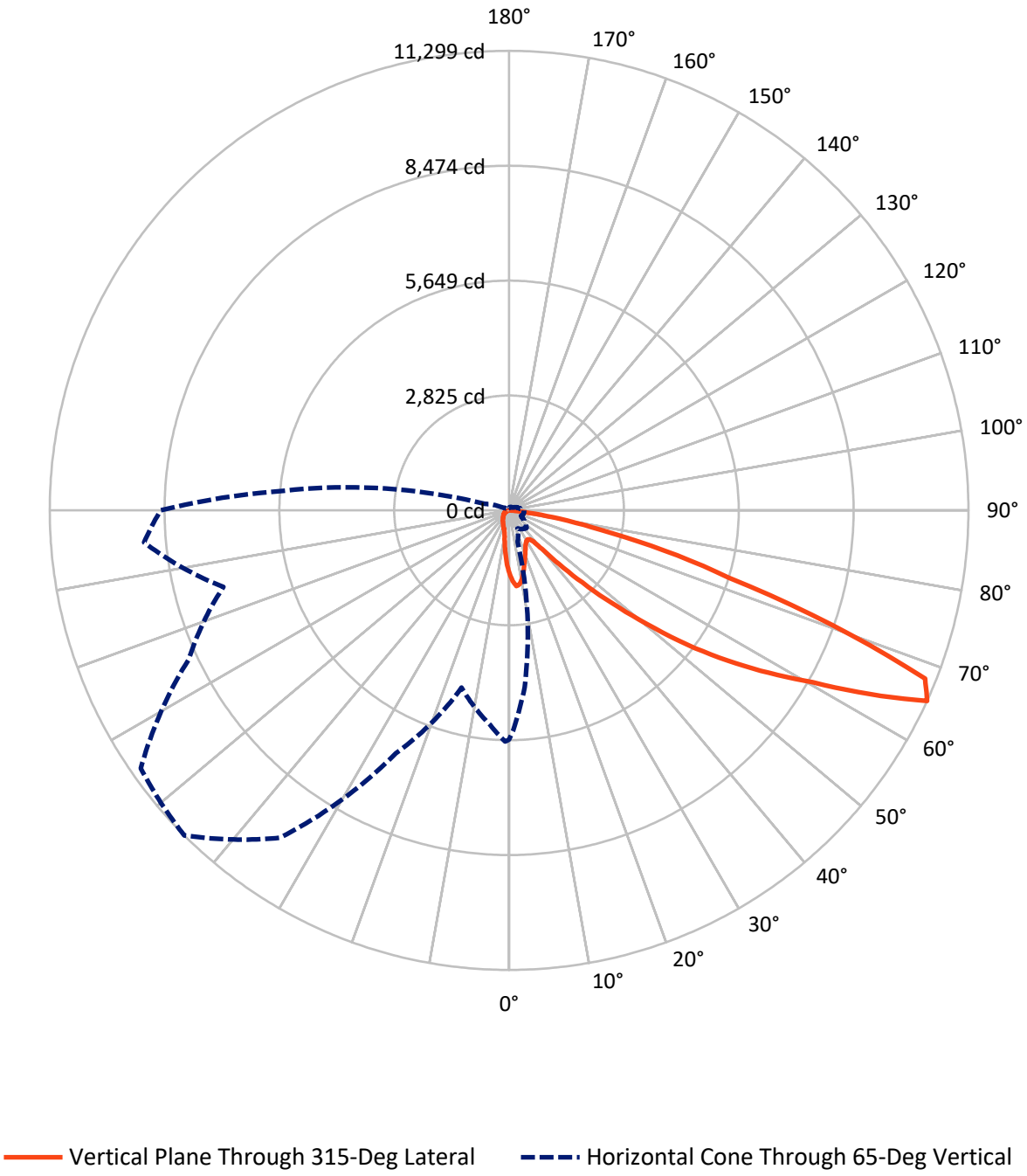
Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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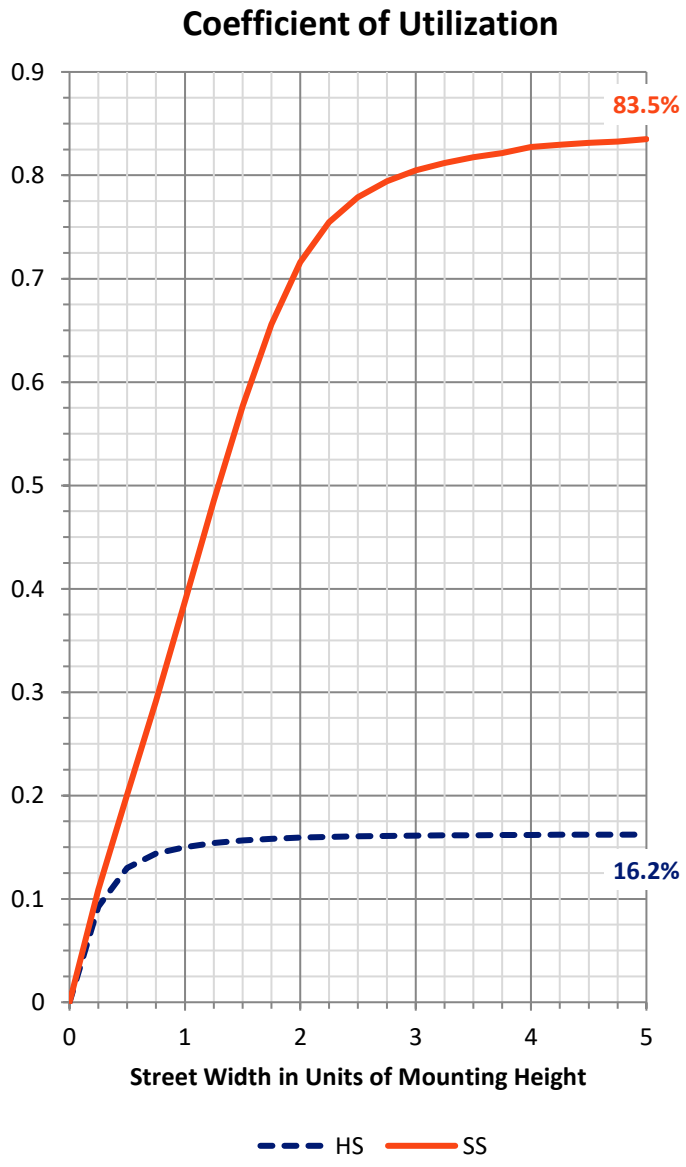
REPORT NUMBER: P1704732
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.0	0.0	1233.0
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	6294.9	0.0	6294.9
	% Fixture	83.6	0.0	83.6
Total	Lumens	7527.9	0.0	7527.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	1.8
10°-20°	341.5	4.5
20°-30°	464.2	6.2
30°-40°	567.0	7.5
40°-50°	877.8	11.7
50°-60°	1708.2	22.7
60°-70°	2306.4	30.6
70°-80°	1046.7	13.9
80°-90°	77.4	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°	7527.9	100.0
0°-180°	7527.9	100.0



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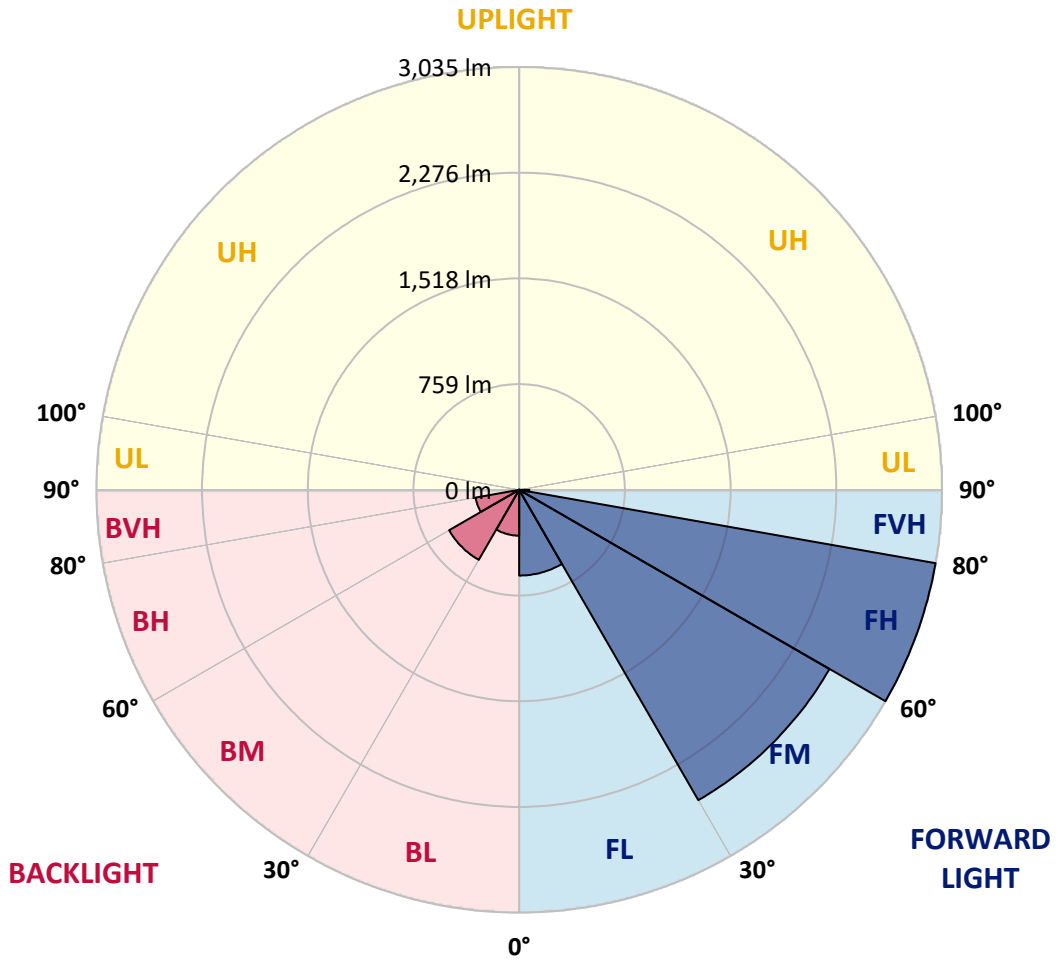
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	615.3	8.2			
FM	(30°-60°)	2572.3	34.2			
FH	(60°-80°)	3035.3	40.3			G2/5000
FVH	(80°-90°)	72.1	1.0			G1/100
BL	(0°-30°)	329.0	4.4	B1/500		
BM	(30°-60°)	580.7	7.7	B1/1000		
BH	(60°-80°)	317.9	4.2	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7
2.5°	1708.6	1694.5	1689.8	1661.7	1633.5	1610.1	1572.5	1544.3	1502.1	1473.9	1445.8
5°	1811.9	1802.5	1797.8	1727.4	1685.2	1628.8	1567.8	1497.4	1427.0	1366.0	1286.2
7.5°	1858.8	1835.4	1826.0	1760.3	1689.8	1628.8	1563.1	1483.3	1389.4	1300.2	1182.9
10°	1854.1	1840.1	1844.8	1783.7	1694.5	1614.7	1544.3	1488.0	1408.2	1314.3	1164.1
12.5°	1849.4	1840.1	1863.5	1807.2	1708.6	1624.1	1549.0	1506.8	1450.5	1389.4	1248.6
15°	1811.9	1826.0	1868.2	1840.1	1713.3	1624.1	1539.6	1478.6	1473.9	1511.5	1431.7
17.5°	1802.5	1811.9	1872.9	1863.5	1732.1	1610.1	1488.0	1445.8	1506.8	1628.8	1638.2
20°	1783.7	1802.5	1891.7	1891.7	1741.5	1553.7	1384.7	1361.3	1497.4	1680.5	1769.6
22.5°	1765.0	1788.4	1891.7	1929.2	1746.2	1469.2	1243.9	1262.7	1431.7	1624.1	1755.6
25°	1750.9	1788.4	1924.5	1999.7	1755.6	1394.1	1126.6	1192.3	1328.4	1483.3	1591.3
27.5°	1760.3	1797.8	1966.8	2112.3	1788.4	1304.9	1060.8	1140.6	1243.9	1328.4	1408.2
30°	1783.7	1821.3	2046.6	2220.3	1854.1	1234.5	1037.4	1117.2	1178.2	1220.4	1258.0
32.5°	1826.0	1877.6	2140.5	2356.4	1929.2	1197.0	1028.0	1079.6	1107.8	1126.6	1131.3
35°	1910.5	1971.5	2262.5	2497.2	1943.3	1220.4	1042.1	1018.6	1028.0	1018.6	1004.5
37.5°	2018.4	2084.1	2431.5	2656.8	1882.3	1211.1	1051.5	952.9	938.8	901.3	891.9
40°	2168.6	2253.1	2661.5	2830.5	1783.7	1140.6	1056.2	887.2	835.5	798.0	788.6
42.5°	2412.7	2469.1	2966.6	3037.0	1652.3	1065.5	1004.5	816.8	746.3	708.8	690.0
45°	2694.4	2792.9	3445.4	3253.0	1488.0	976.4	920.0	746.3	671.2	624.3	600.8
47.5°	3163.8	3332.8	4027.5	3534.6	1323.7	896.6	812.1	671.2	586.8	544.5	549.2
50°	3971.1	4201.2	5041.4	3914.8	1173.5	849.6	699.4	577.4	511.6	502.3	516.3
52.5°	5215.1	5487.3	6351.0	4219.9	1074.9	821.5	624.3	502.3	474.1	474.1	497.6
55°	6745.3	7088.0	7566.8	3952.4	1013.9	798.0	610.2	441.2	450.6	455.3	478.8
57.5°	8852.9	8928.0	8266.2	3375.0	896.6	779.2	624.3	413.1	431.9	445.9	464.7
60°	9364.6	9312.9	7848.4	2426.8	769.8	741.7	638.4	413.1	408.4	427.2	441.2
62.5°	8054.9	7895.3	6698.4	1455.1	638.4	661.9	647.8	431.9	370.8	394.3	403.7
65°	*5637.5*	*5431.0*	*4365.4*	*807.4*	*492.9*	*558.6*	*610.2*	*455.3*	*323.9*	*361.4*	*370.8*
67.5°	3318.7	3243.6	2337.6	445.9	338.0	441.2	525.7	455.3	295.7	323.9	333.3
70°	1779.0	1591.3	924.7	244.1	239.4	314.5	431.9	399.0	262.9	291.0	300.4
72.5°	1164.1	999.8	445.9	136.1	178.4	220.6	286.3	319.2	244.1	262.9	272.3
75°	741.7	633.7	197.1	84.5	136.1	131.4	215.9	234.7	211.2	225.3	239.4
77.5°	258.2	215.9	65.7	46.9	89.2	93.9	159.6	140.8	164.3	169.0	187.8
80°	108.0	89.2	42.2	37.6	46.9	56.3	112.7	89.2	93.9	117.4	131.4
82.5°	28.2	28.2	18.8	23.5	28.2	32.9	42.2	56.3	56.3	79.8	79.8
85°	9.4	9.4	9.4	14.1	14.1	14.1	23.5	32.9	32.9	42.2	37.6
87.5°	0.0	0.0	0.0	0.0	4.7	4.7	4.7	14.1	14.1	18.8	18.8
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°	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7
2.5°	1427.0	1408.2	1384.7	1356.6	1361.3	1342.5	1356.6	1361.3	1380.0	1398.8	1398.8
5°	1243.9	1225.1	1159.4	1121.9	1084.3	1089.0	1079.6	1084.3	1126.6	1164.1	1192.3
7.5°	1126.6	1079.6	976.4	905.9	854.3	849.6	840.2	873.1	896.6	948.2	990.4
10°	1093.7	1013.9	859.0	737.0	671.2	652.5	661.9	666.6	694.7	746.3	779.2
12.5°	1140.6	1028.0	798.0	624.3	563.3	544.5	539.8	535.1	539.8	572.7	582.1
15°	1328.4	1145.3	802.7	572.7	502.3	483.5	464.7	445.9	431.9	436.5	445.9
17.5°	1549.0	1347.2	849.6	549.2	483.5	455.3	417.8	399.0	384.9	375.5	375.5
20°	1699.2	1511.5	882.5	530.4	460.0	417.8	389.6	366.1	352.1	347.4	347.4
22.5°	1746.2	1591.3	891.9	521.0	431.9	384.9	361.4	342.7	328.6	323.9	323.9
25°	1638.2	1520.9	849.6	507.0	399.0	352.1	333.3	319.2	305.1	305.1	305.1
27.5°	1427.0	1351.9	783.9	492.9	370.8	328.6	314.5	295.7	286.3	286.3	286.3
30°	1234.5	1178.2	718.2	464.7	347.4	305.1	291.0	276.9	267.6	267.6	272.3
32.5°	1103.1	1028.0	671.2	431.9	333.3	286.3	272.3	262.9	253.5	248.8	253.5
35°	981.1	924.7	643.1	408.4	309.8	267.6	253.5	248.8	234.7	234.7	234.7
37.5°	877.8	835.5	629.0	380.2	295.7	248.8	234.7	230.0	215.9	215.9	220.6
40°	779.2	755.7	605.5	361.4	286.3	234.7	215.9	211.2	201.8	197.1	201.8
42.5°	685.3	680.6	577.4	342.7	267.6	215.9	197.1	192.5	183.1	183.1	187.8
45°	610.2	619.6	544.5	333.3	248.8	201.8	178.4	173.7	164.3	164.3	169.0
47.5°	558.6	568.0	507.0	328.6	239.4	187.8	164.3	154.9	150.2	150.2	159.6
50°	535.1	535.1	483.5	338.0	234.7	178.4	150.2	140.8	136.1	140.8	150.2
52.5°	507.0	521.0	469.4	347.4	215.9	169.0	140.8	131.4	131.4	136.1	140.8
55°	497.6	502.3	445.9	338.0	192.5	159.6	136.1	131.4	131.4	131.4	136.1
57.5°	474.1	483.5	394.3	305.1	169.0	145.5	126.7	122.0	122.0	122.0	126.7
60°	445.9	445.9	347.4	262.9	159.6	136.1	117.4	117.4	117.4	112.7	112.7
62.5°	408.4	384.9	291.0	220.6	140.8	122.0	108.0	108.0	98.6	93.9	93.9
65°	*361.4*	*319.2*	*230.0*	*187.8*	*122.0*	*103.3*	*98.6*	*93.9*	*79.8*	*65.7*	*65.7*
67.5°	314.5	262.9	173.7	150.2	103.3	89.2	84.5	84.5	70.4	56.3	56.3
70°	286.3	215.9	136.1	112.7	84.5	70.4	70.4	70.4	61.0	46.9	46.9
72.5°	258.2	178.4	112.7	93.9	65.7	51.6	61.0	61.0	51.6	37.6	37.6
75°	225.3	145.5	89.2	70.4	46.9	42.2	42.2	46.9	37.6	32.9	28.2
77.5°	178.4	108.0	61.0	42.2	32.9	28.2	32.9	32.9	23.5	18.8	18.8
80°	122.0	65.7	42.2	28.2	23.5	18.8	18.8	14.1	14.1	14.1	9.4
82.5°	70.4	42.2	23.5	18.8	14.1	9.4	4.7	9.4	9.4	9.4	9.4
85°	28.2	18.8	14.1	9.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	14.1	14.1	9.4	4.7	0.0	0.0	0.0	0.0	4.7	4.7	4.7
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°	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7
2.5°	1422.3	1436.4	1483.3	1506.8	1544.3	1577.2	1614.7	1642.9	1680.5	1666.4	1689.8
5°	1215.8	1281.5	1361.3	1441.1	1511.5	1591.3	1661.7	1741.5	1779.0	1793.1	1816.6
7.5°	999.8	1103.1	1215.8	1347.2	1450.5	1572.5	1680.5	1779.0	1821.3	1835.4	1854.1
10°	798.0	901.3	1037.4	1187.6	1342.5	1511.5	1642.9	1774.3	1821.3	1816.6	1826.0
12.5°	619.6	704.1	844.9	1013.9	1201.7	1408.2	1614.7	1760.3	1802.5	1774.3	1746.2
15°	460.0	530.4	666.6	844.9	1060.8	1295.6	1549.0	1746.2	1755.6	1708.6	1652.3
17.5°	380.2	403.7	483.5	675.9	929.4	1206.4	1483.3	1722.7	1713.3	1647.6	1567.8
20°	342.7	347.4	356.7	464.7	765.1	1098.4	1417.6	1699.2	1685.2	1591.3	1483.3
22.5°	323.9	323.9	323.9	338.0	521.0	938.8	1356.6	1675.8	1657.0	1539.6	1417.6
25°	305.1	305.1	305.1	305.1	342.7	722.9	1258.0	1661.7	1642.9	1506.8	1370.7
27.5°	286.3	295.7	291.0	291.0	295.7	516.3	1103.1	1652.3	1642.9	1478.6	1342.5
30°	272.3	276.9	276.9	272.3	276.9	323.9	929.4	1624.1	1638.2	1469.2	1328.4
32.5°	258.2	262.9	262.9	258.2	258.2	272.3	769.8	1591.3	1661.7	1478.6	1333.1
35°	239.4	248.8	248.8	244.1	244.1	253.5	610.2	1563.1	1708.6	1520.9	1356.6
37.5°	225.3	230.0	230.0	230.0	230.0	239.4	478.8	1530.3	1765.0	1558.4	1389.4
40°	206.5	215.9	215.9	215.9	215.9	225.3	431.9	1502.1	1830.7	1614.7	1459.8
42.5°	192.5	201.8	201.8	201.8	206.5	215.9	403.7	1464.5	1962.1	1732.1	1563.1
45°	178.4	183.1	187.8	187.8	187.8	206.5	366.1	1506.8	2145.2	1877.6	1713.3
47.5°	159.6	169.0	169.0	173.7	173.7	197.1	314.5	1793.1	2455.0	2060.7	1919.9
50°	150.2	154.9	159.6	159.6	159.6	187.8	319.2	2220.3	2835.2	2332.9	2178.0
52.5°	145.5	150.2	150.2	145.5	145.5	178.4	380.2	2581.7	3407.9	2708.5	2553.5
55°	136.1	140.8	140.8	136.1	131.4	154.9	333.3	2811.7	4149.5	3468.9	3093.4
57.5°	126.7	131.4	131.4	122.0	122.0	131.4	248.8	2774.2	5431.0	4886.5	4196.5
60°	117.4	117.4	122.0	112.7	108.0	117.4	201.8	2356.4	6487.1	7407.2	5942.6
62.5°	98.6	103.3	108.0	103.3	93.9	103.3	164.3	1488.0	6684.3	9148.7	9289.5
65°	*75.1*	*89.2*	*93.9*	*93.9*	*79.8*	*89.2*	*145.5*	*614.9*	*5543.6*	*8571.3*	*9012.5*
67.5°	61.0	75.1	79.8	79.8	70.4	89.2	103.3	211.2	4384.2	7660.6	8162.9
70°	51.6	65.7	70.4	61.0	51.6	75.1	65.7	112.7	2797.6	6247.7	7252.3
72.5°	42.2	56.3	56.3	46.9	37.6	61.0	46.9	75.1	1572.5	5013.2	6360.4
75°	32.9	42.2	42.2	37.6	28.2	37.6	32.9	51.6	788.6	3642.6	4867.7
77.5°	18.8	28.2	32.9	28.2	18.8	23.5	23.5	32.9	305.1	2145.2	3177.9
80°	14.1	18.8	18.8	18.8	14.1	14.1	9.4	18.8	75.1	544.5	957.6
82.5°	9.4	9.4	9.4	9.4	4.7	4.7	4.7	9.4	28.2	131.4	197.1
85°	4.7	9.4	4.7	4.7	0.0	0.0	0.0	0.0	4.7	28.2	46.9
87.5°	4.7	4.7	4.7	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: P1704732
CATALOG NUMBER: GSS-SB5A-AMB-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1553.7	1553.7	1553.7	*1553.7*	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7
2.5°	1708.6	1713.3	1727.4	*1741.5*	1727.4	1722.7	1713.3	1703.9	1708.6	1708.6
5°	1840.1	1858.8	1868.2	*1868.2*	1863.5	1854.1	1849.4	1830.7	1807.2	1811.9
7.5°	1849.4	1844.8	1835.4	*1840.1*	1849.4	1858.8	1863.5	1868.2	1849.4	1858.8
10°	1774.3	1736.8	1722.7	*1722.7*	1718.0	1760.3	1793.1	1844.8	1849.4	1854.1
12.5°	1666.4	1596.0	1567.8	*1553.7*	1563.1	1628.8	1703.9	1811.9	1835.4	1849.4
15°	1534.9	1450.5	1408.2	*1394.1*	1422.3	1478.6	1600.7	1750.9	1807.2	1811.9
17.5°	1412.9	1314.3	1267.4	*1253.3*	1290.9	1366.0	1492.7	1718.0	1779.0	1802.5
20°	1309.6	1206.4	1145.3	*1131.3*	1173.5	1281.5	1431.7	1666.4	1760.3	1783.7
22.5°	1229.8	1112.5	1042.1	*1028.0*	1079.6	1192.3	1366.0	1624.1	1727.4	1765.0
25°	1164.1	1037.4	962.3	*943.5*	999.8	1140.6	1323.7	1591.3	1718.0	1750.9
27.5°	1131.3	990.4	905.9	*891.9*	957.6	1093.7	1295.6	1558.4	1708.6	1760.3
30°	1107.8	957.6	873.1	*859.0*	934.1	1079.6	1281.5	1563.1	1722.7	1783.7
32.5°	1107.8	957.6	863.7	*849.6*	929.4	1079.6	1290.9	1581.9	1760.3	1826.0
35°	1121.9	976.4	882.5	*873.1*	957.6	1112.5	1319.0	1619.4	1830.7	1910.5
37.5°	1164.1	1032.7	981.1	*967.0*	1060.8	1197.0	1394.1	1708.6	1938.6	2018.4
40°	1253.3	1164.1	1192.3	*1243.9*	1319.0	1384.7	1530.3	1854.1	2074.8	2168.6
42.5°	1389.4	1450.5	1647.6	*1802.5*	1750.9	1685.2	1741.5	2041.9	2309.5	2412.7
45°	1652.3	1905.8	2356.4	*2530.1*	2459.7	2178.0	2041.9	2300.1	2558.2	2694.4
47.5°	1999.7	2469.1	3121.5	*3407.9*	3173.2	2727.2	2384.6	2661.5	3008.9	3163.8
50°	2375.2	3201.3	4060.3	*4379.5*	3952.4	3295.2	2788.3	3093.4	3689.5	3971.1
52.5°	2802.3	3957.1	5125.9	*5482.6*	4848.9	3778.7	3177.9	3849.1	4830.2	5215.1
55°	3154.4	4590.8	6149.2	*6515.3*	5698.5	4173.0	3581.5	5158.7	6477.8	6745.3
57.5°	3553.4	5102.4	7036.3	*7538.6*	6308.8	4520.3	4046.2	6834.5	8449.2	8852.9
60°	3952.4	5792.4	7834.3	*8580.7*	7073.9	4933.4	4590.8	8017.4	9280.1	9364.6
62.5°	5318.3	7149.0	9411.5	*9951.3*	8331.9	5923.9	5327.7	7496.4	8064.3	8054.9
65°	*7275.7*	*8702.7*	*11059.1*	*11298.5*	*9824.6*	*6590.4*	*4511.0*	*5299.6*	*5684.5*	*5637.5*
67.5°	6182.0	8425.8	10913.6	*11035.6*	9331.7	5722.0	2947.8	3468.9	3478.3	3318.7
70°	5271.4	7341.5	9679.1	*8416.4*	8139.4	4961.6	1793.1	2107.6	1882.3	1779.0
72.5°	4365.4	5754.9	7918.8	*5651.6*	6919.0	4079.1	1201.7	1488.0	1253.3	1164.1
75°	3506.4	4609.5	4891.2	*3938.3*	4431.2	3281.1	948.2	1070.2	835.5	741.7
77.5°	2384.6	3145.0	2394.0	*2286.0*	3032.3	2300.1	384.9	384.9	286.3	258.2
80°	915.3	1394.1	1243.9	*1258.0*	1661.7	1140.6	197.1	154.9	112.7	108.0
82.5°	314.5	347.4	422.5	*474.1*	732.3	596.1	89.2	37.6	32.9	28.2
85°	56.3	169.0	173.7	*136.1*	117.4	145.5	23.5	9.4	4.7	9.4
87.5°	0.0	0.0	0.0	*0.0*	4.7	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

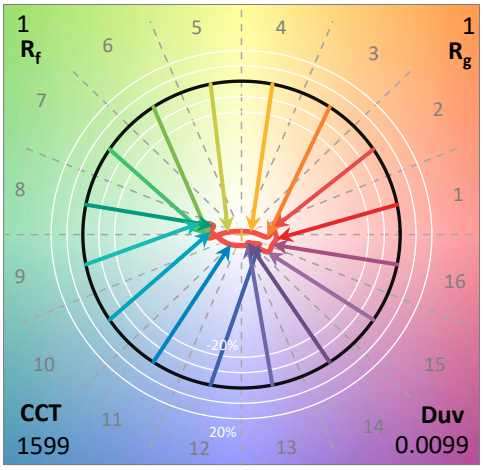
Test Information

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

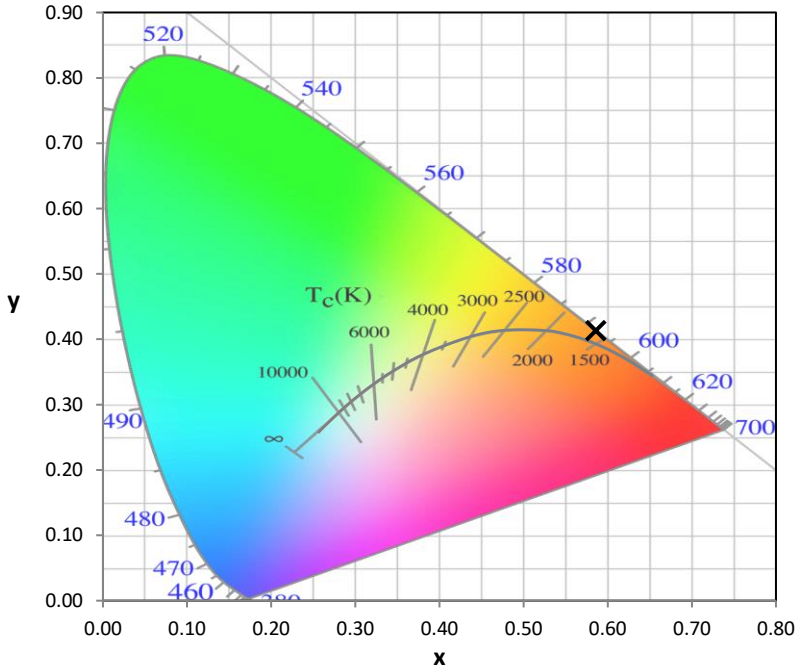
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

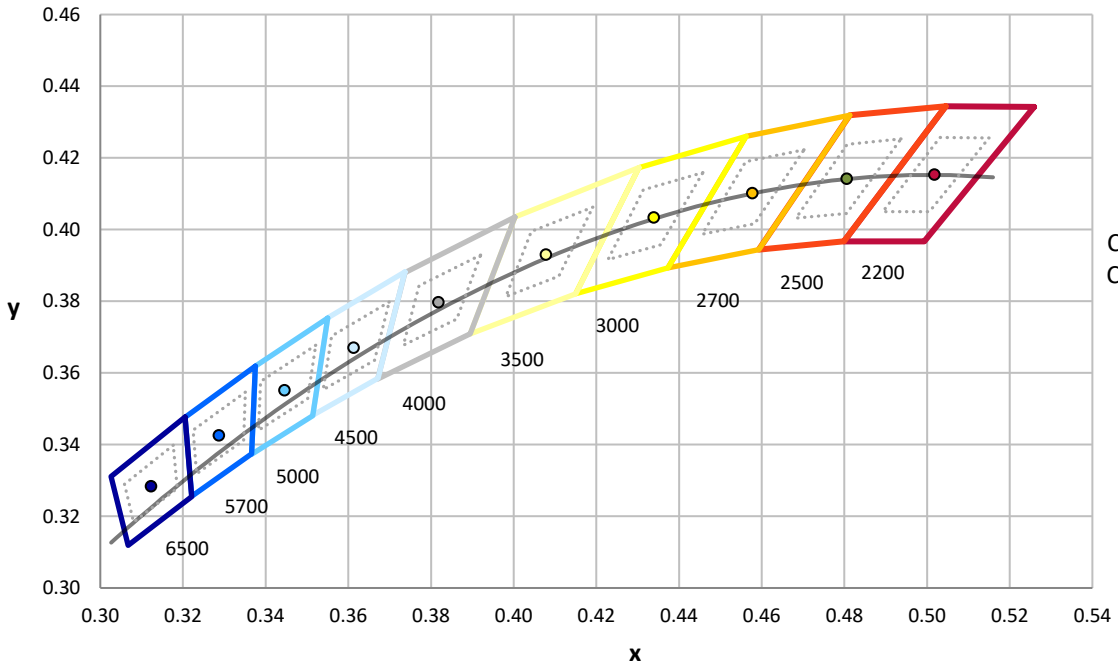
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

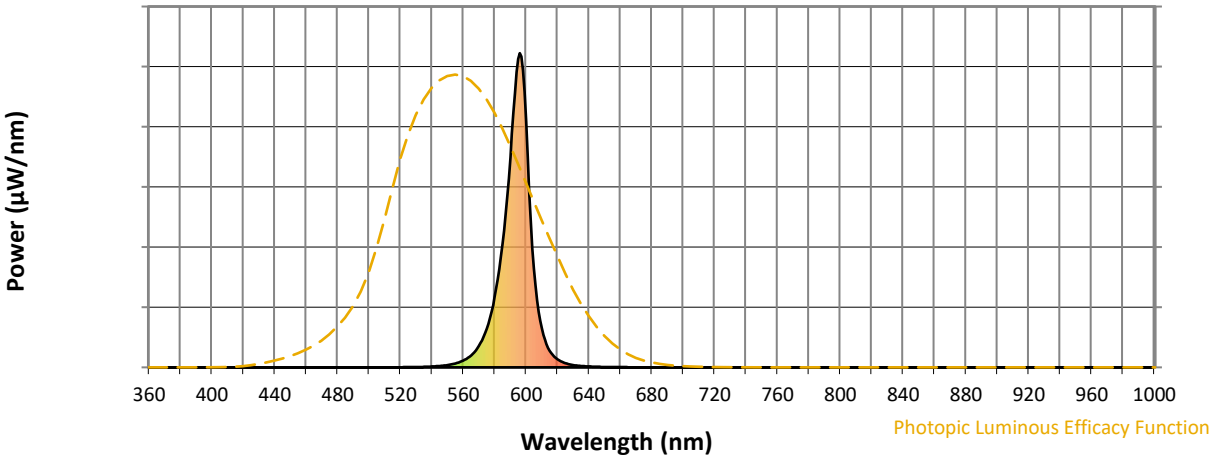


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

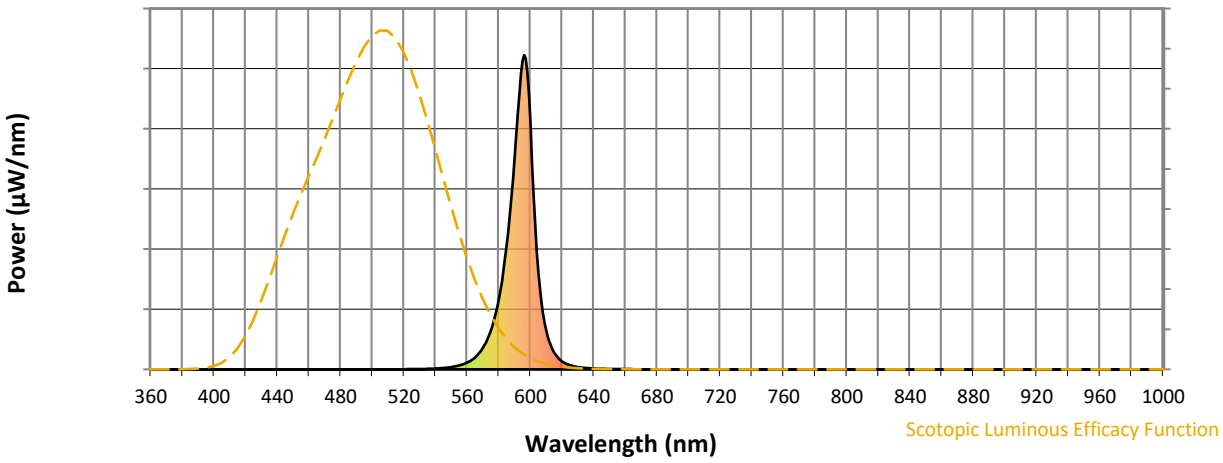


Photopic Lumens: NR

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

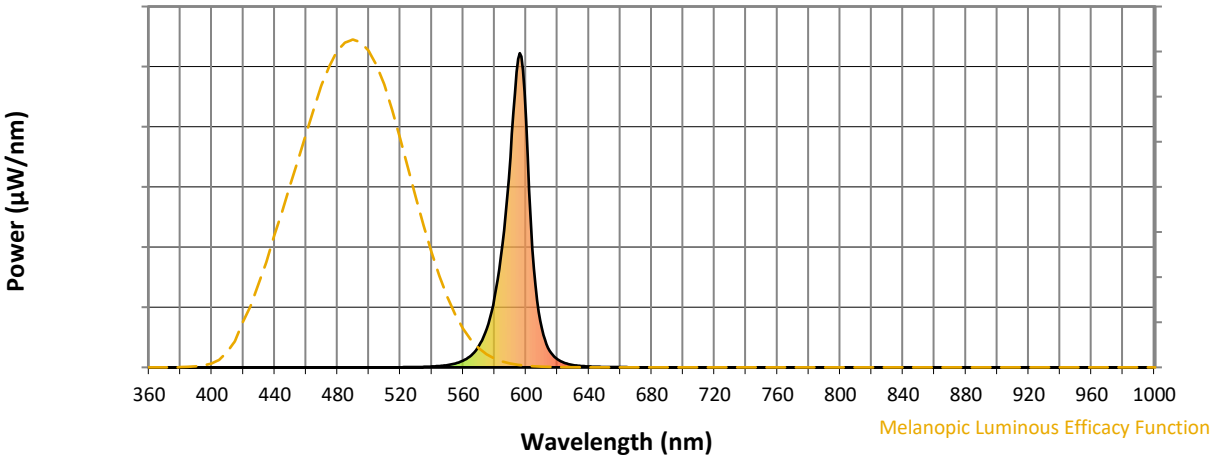


Scotopic Lumens: NR **S/P: 0.23**

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			

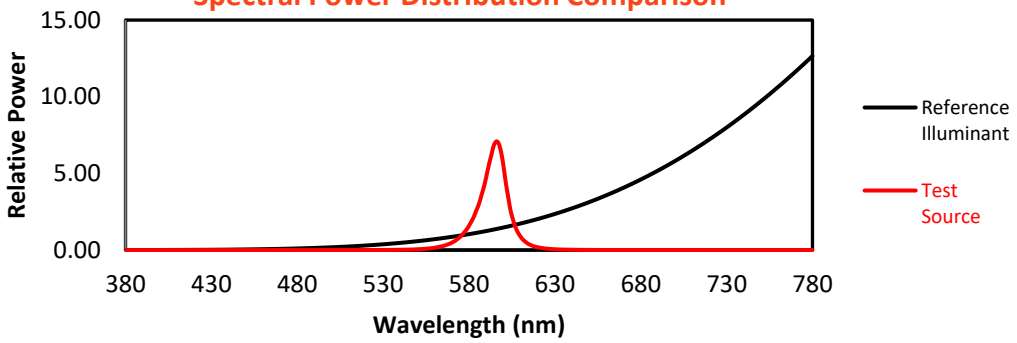
REPORT NUMBER: SP3-2509-541-1

TM-30-18

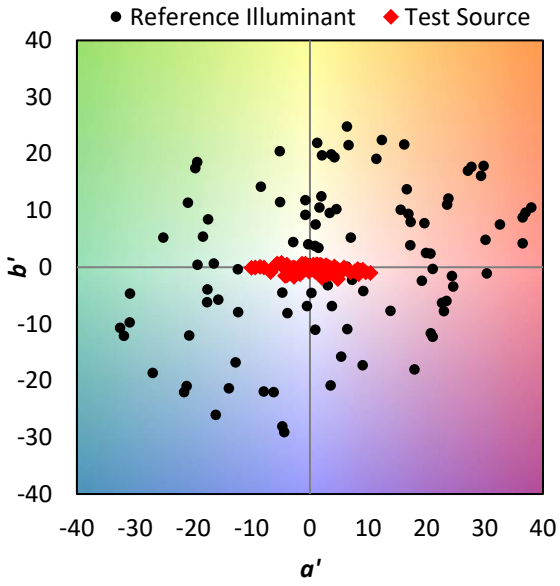
Summary

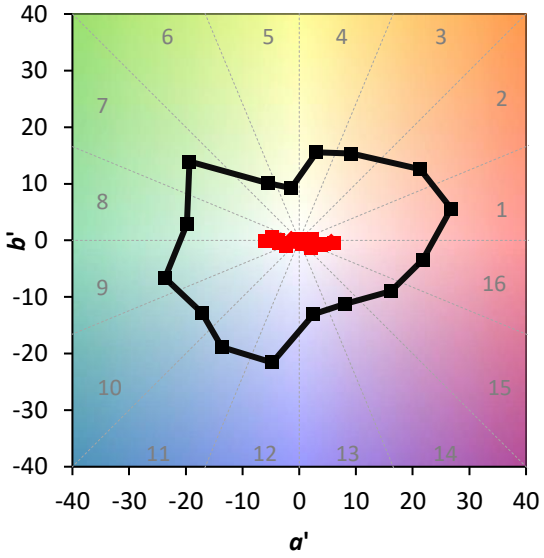
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

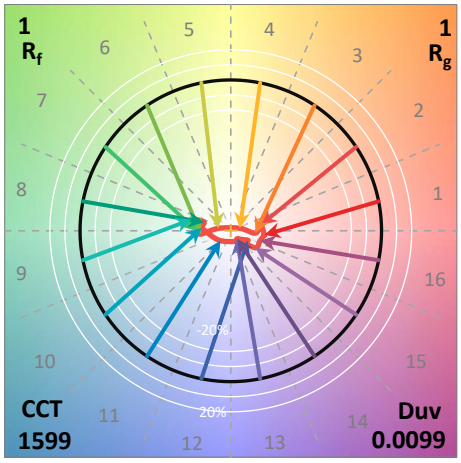
Spectral Power Distribution Comparison

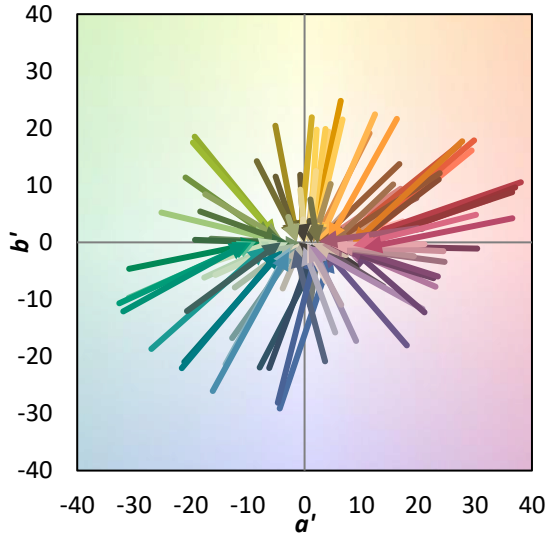


Color Vector Graphics







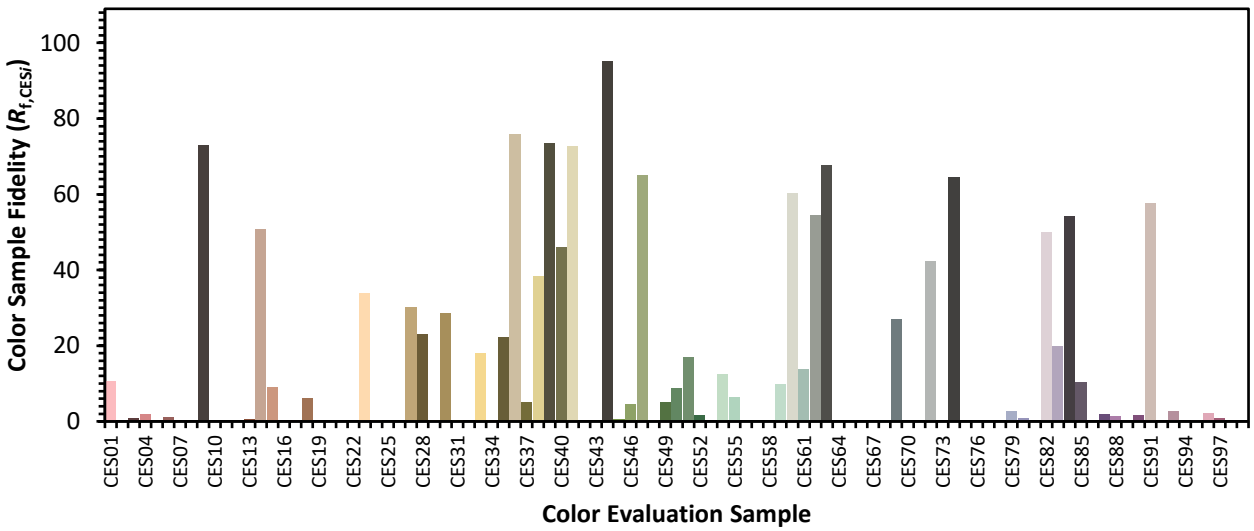


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

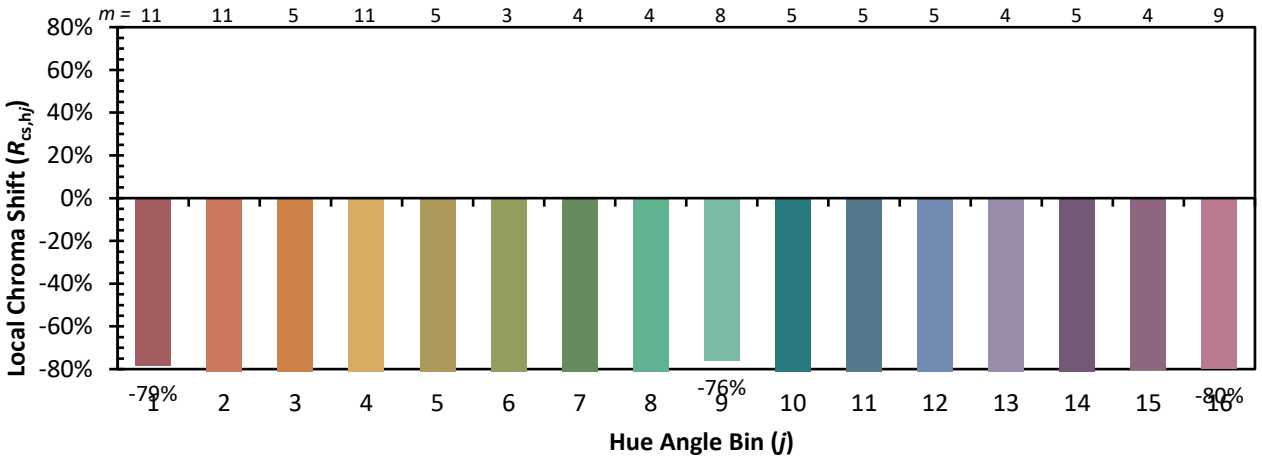
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 =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

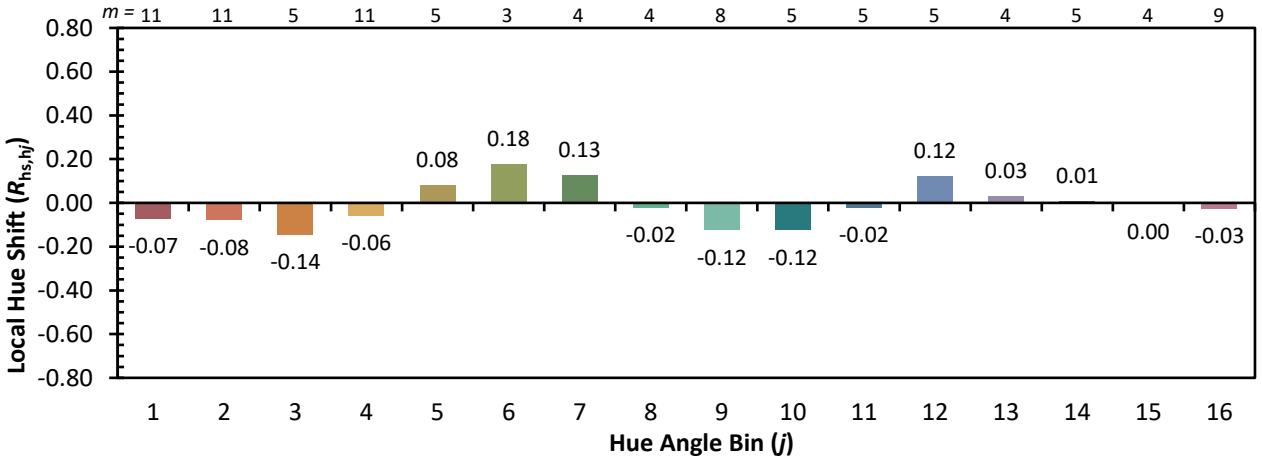


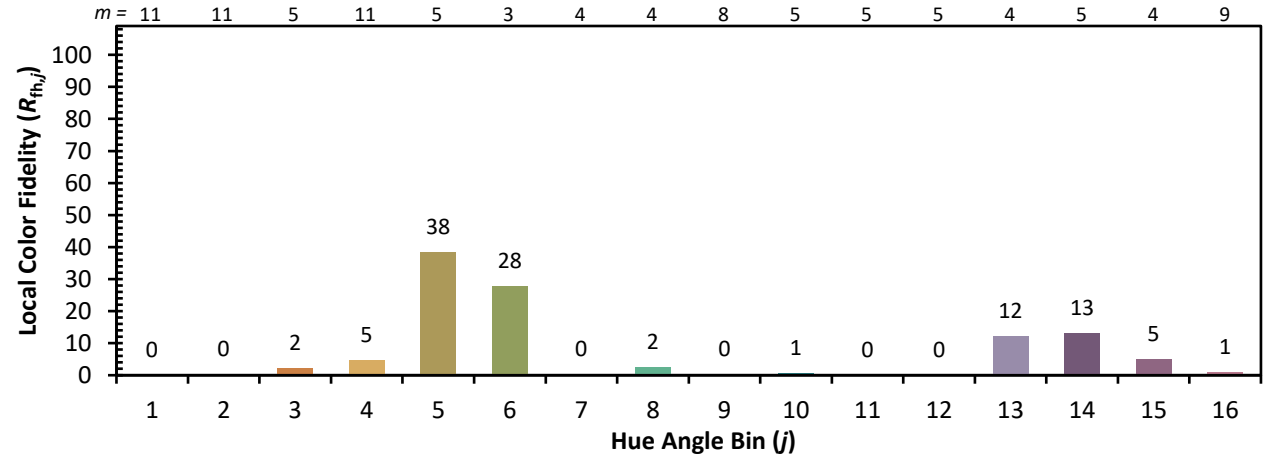
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Color Rendition by Hue-Angle Bin



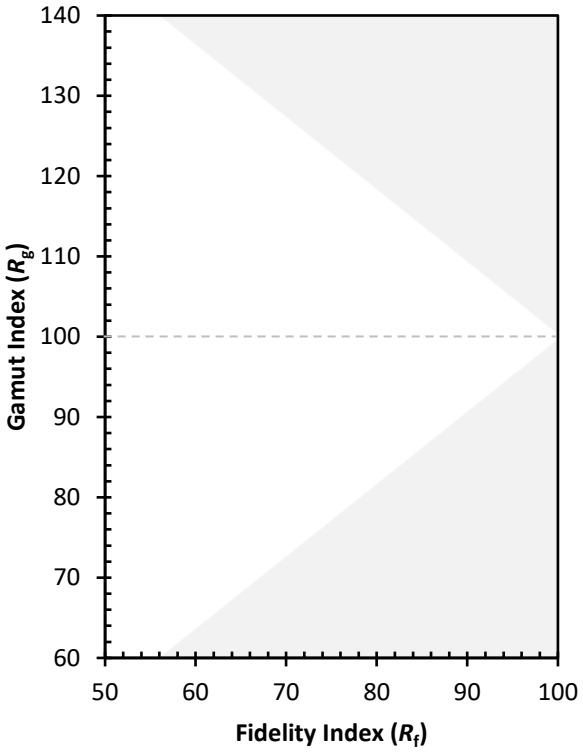


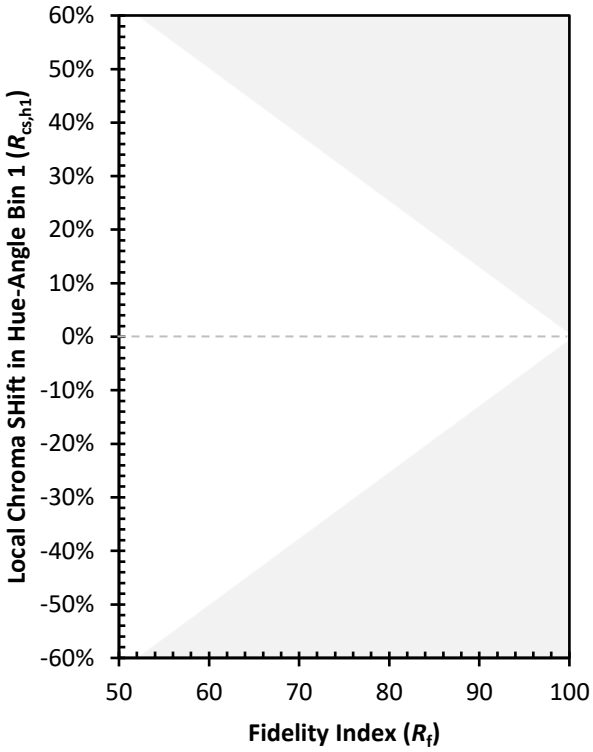


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Measure Comparisons





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