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

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-SLL
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 4SQUARE 130W 1590K FIXTURE w/ LEFT 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:	8208.3 lumens
Efficiency:	N/A
Efficacy:	63.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - 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

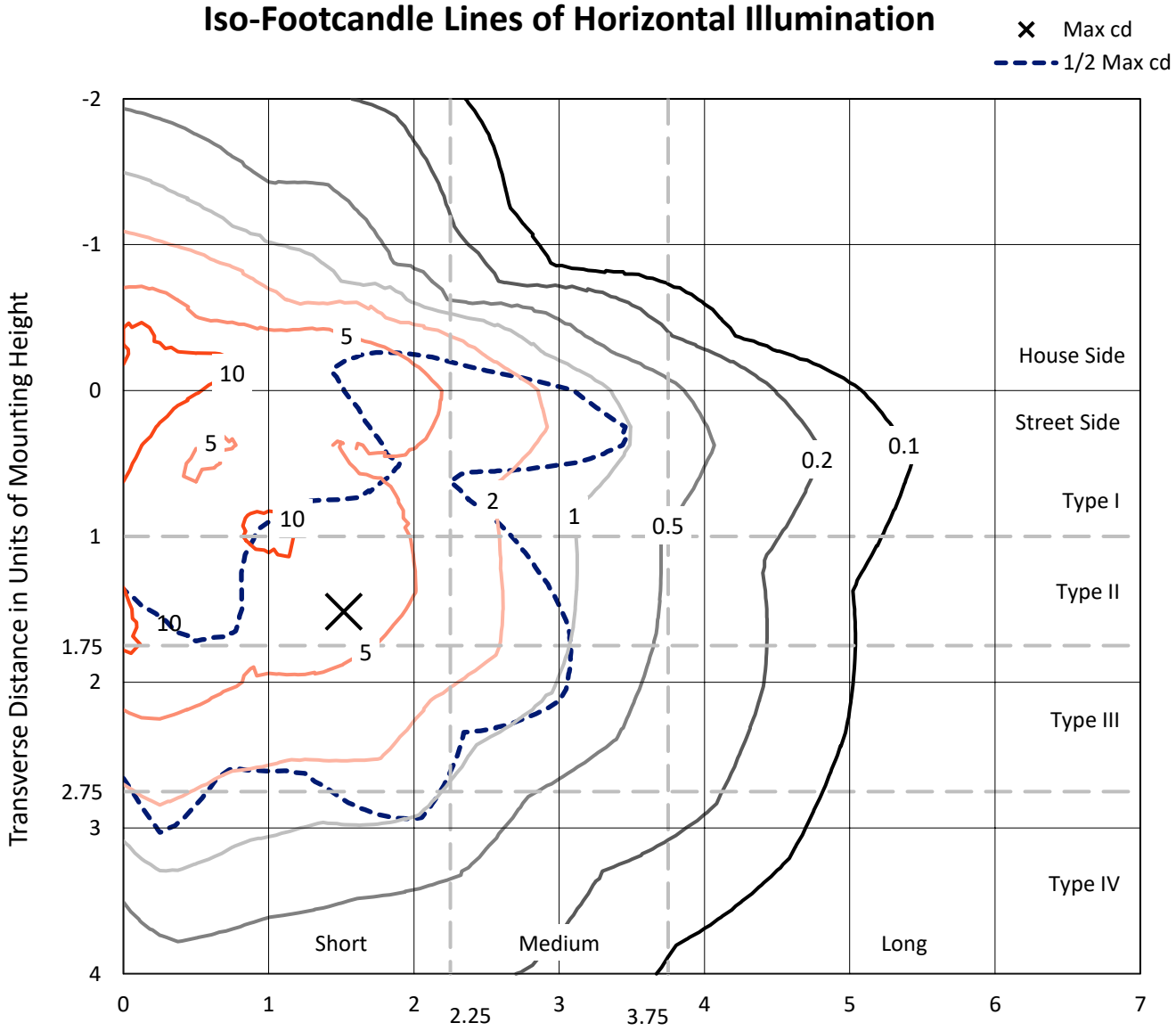


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REPORT NUMBER: P1704731
CATALOG NUMBER: GSS-SB4A-AMB-U-SLL

Iso-Footcandle Lines of Horizontal Illumination



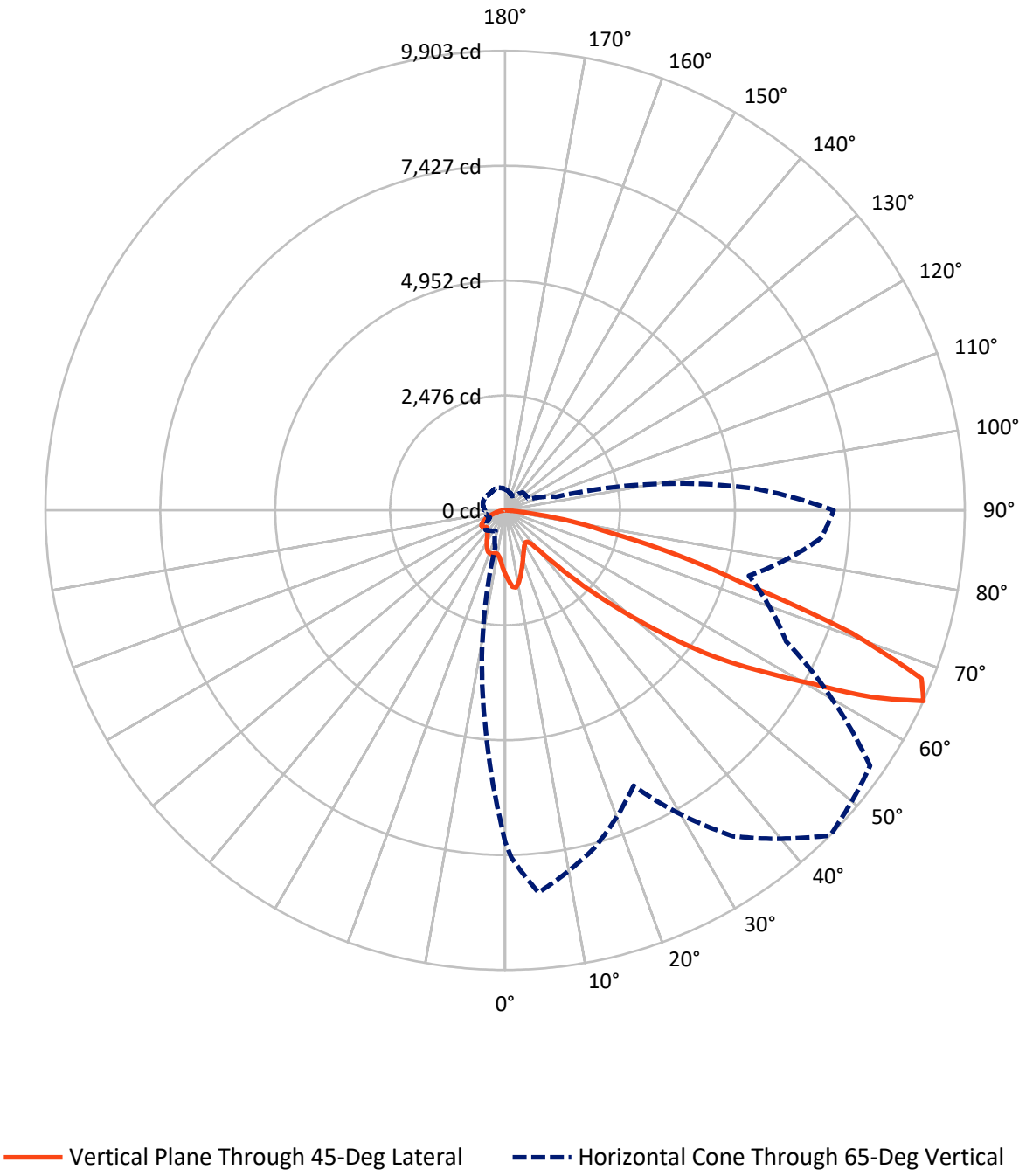
Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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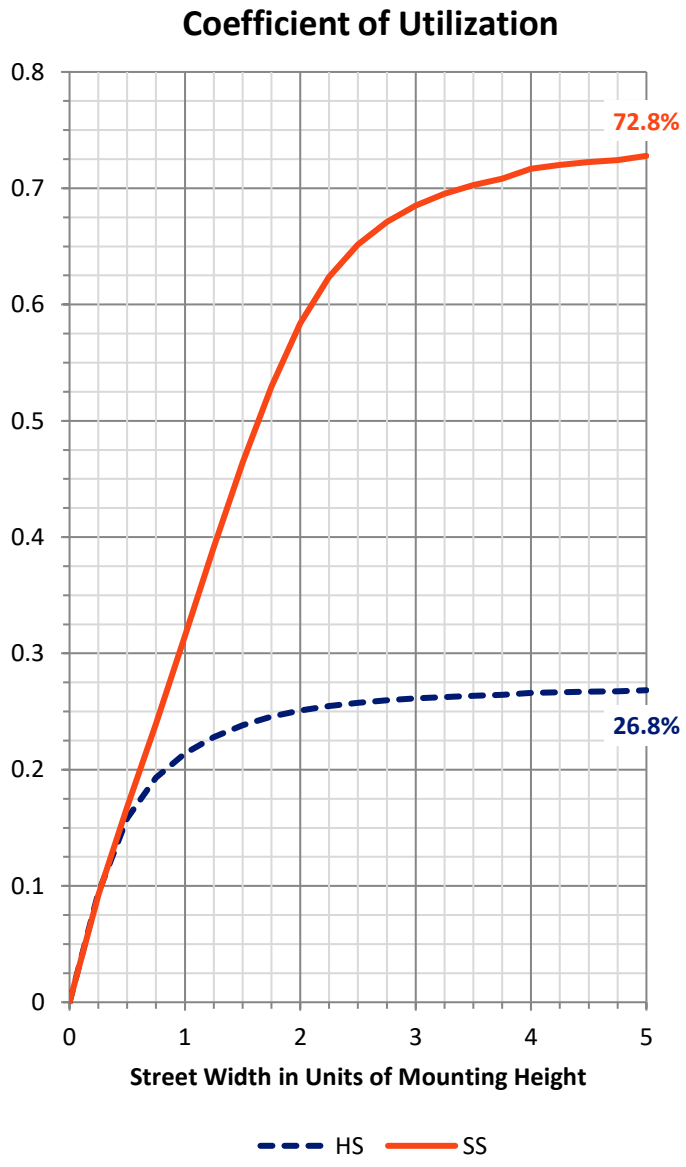
REPORT NUMBER: P1704731
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2222.8	0.0	2222.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	5985.5	0.0	5985.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	8208.3	0.0	8208.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.6
10°-20°	373.8	4.6
20°-30°	567.4	6.9
30°-40°	689.6	8.4
40°-50°	963.3	11.7
50°-60°	1702.1	20.7
60°-70°	2385.5	29.1
70°-80°	1258.0	15.3
80°-90°	139.1	1.7
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°	8208.3	100.0
0°-180°	8208.3	100.0



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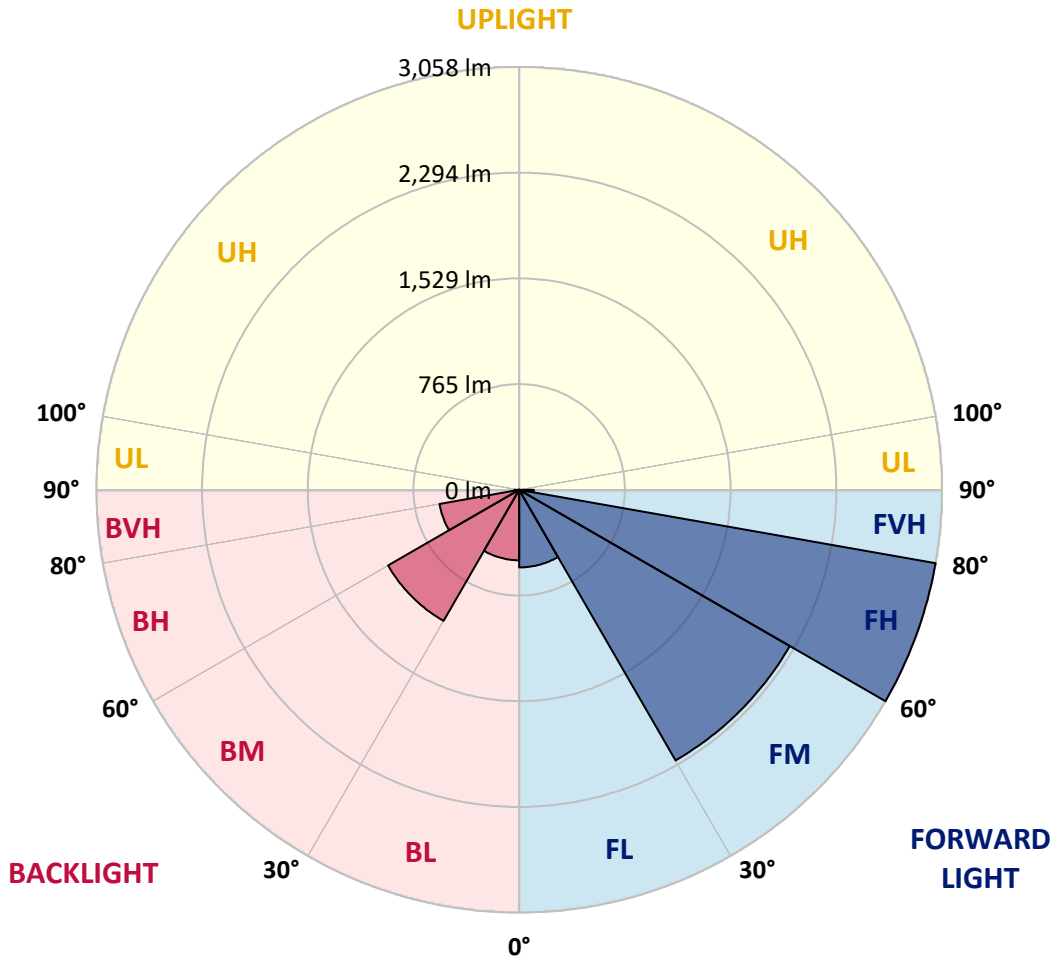
Scaled Data Report

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CATALOG NUMBER: GSS-SB4A-AMB-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	561.2	6.8			
FM	(30°-60°)	2259.9	27.5			
FH	(60°-80°)	3058.2	37.3			G2/5000
FVH	(80°-90°)	106.3	1.3			G2/225
BL	(0°-30°)	509.6	6.2	B2/1000		
BM	(30°-60°)	1095.0	13.3	B2/2500		
BH	(60°-80°)	585.4	7.1	B2/1000		G2/1000
BVH	(80°-90°)	32.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	*1383.8*	1383.8	1383.8	1383.8	1383.8
2.5°	1466.6	1482.3	1486.3	1490.2	1490.2	1509.9	*1513.9*	1509.9	1506.0	1502.0	1498.1
5°	1557.2	1561.2	1569.1	1608.5	1624.3	1644.0	*1651.9*	1663.7	1651.9	1636.1	1608.5
7.5°	1604.6	1620.3	1640.0	1659.7	1659.7	1675.5	*1675.5*	1679.5	1683.4	1683.4	1675.5
10°	1632.1	1636.1	1655.8	1647.9	1632.1	1608.5	*1592.7*	1592.7	1616.4	1636.1	1667.6
12.5°	1640.0	1640.0	1644.0	1612.4	1537.5	1498.1	*1458.7*	1466.6	1494.2	1541.5	1612.4
15°	1628.2	1624.3	1616.4	1521.8	1423.2	1352.2	*1328.6*	1336.5	1360.1	1431.1	1549.4
17.5°	1620.3	1608.5	1565.1	1431.1	1316.8	1234.0	*1210.3*	1206.4	1249.7	1344.4	1478.4
20°	1608.5	1588.8	1513.9	1344.4	1214.3	1139.3	*1103.9*	1107.8	1151.2	1253.7	1419.3
22.5°	1592.7	1565.1	1478.4	1269.4	1127.5	1048.7	*1013.2*	1013.2	1076.3	1194.5	1375.9
25°	1596.7	1561.2	1450.8	1214.3	1076.3	981.7	*938.3*	938.3	1009.3	1139.3	1340.4
27.5°	1588.8	1561.2	1439.0	1194.5	1029.0	938.3	*879.2*	887.0	954.1	1103.9	1312.8
30°	1608.5	1569.1	1427.1	1166.9	1009.3	902.8	*839.7*	851.6	922.5	1080.2	1293.1
32.5°	1647.9	1608.5	1435.0	1166.9	1005.3	891.0	*816.1*	835.8	914.6	1072.3	1293.1
35°	1707.1	1647.9	1450.8	1194.5	1021.1	906.7	*835.8*	843.7	930.4	1076.3	1304.9
37.5°	1801.7	1726.8	1513.9	1234.0	1076.3	977.7	*910.7*	902.8	977.7	1096.0	1328.6
40°	1912.1	1837.2	1596.7	1320.7	1198.5	1178.8	*1127.5*	1068.4	1088.1	1170.9	1391.7
42.5°	2073.7	1975.1	1722.8	1470.5	1431.1	1521.8	*1573.0*	1431.1	1304.9	1281.3	1478.4
45°	2286.6	2195.9	1923.9	1691.3	1817.4	2085.5	*2176.2*	1971.2	1679.5	1474.5	1616.4
47.5°	2669.0	2507.4	2211.7	1998.8	2262.9	2751.8	*2893.7*	2641.4	2152.5	1726.8	1778.0
50°	3232.8	3079.0	2538.9	2337.8	2747.8	3473.2	*3709.8*	3406.2	2669.0	2077.6	2006.7
52.5°	4226.2	3981.8	3118.4	2653.2	3217.0	4246.0	*4707.2*	4210.5	3228.8	2408.8	2345.7
55°	5566.7	5314.3	4293.3	3000.2	3630.9	4928.0	*5669.2*	5267.0	3757.1	2684.8	3043.5
57.5°	7340.7	7080.5	5724.3	3481.1	3930.6	5479.9	*6552.2*	6118.6	4230.2	3004.1	4143.4
60°	8598.3	8720.6	7746.8	4198.6	4348.5	6071.3	*7573.3*	7116.0	4734.8	3378.6	5854.4
62.5°	8223.8	8602.3	9603.7	6260.5	5353.8	7222.5	*8866.4*	8436.7	5677.0	4691.4	7462.9
65°	*7135.7*	*7474.8*	*8267.2*	*7510.2*	*6548.3*	*8570.7*	*9903.3*	*9599.7*	*6682.3*	*5436.6*	*6836.1*
67.5°	5956.9	6280.2	7159.4	5826.8	6110.7	8448.5	*9674.6*	9410.5	6288.1	4588.9	6583.8
70°	4557.4	4908.3	5850.5	4687.5	5274.9	7557.6	*7924.2*	8448.5	5767.7	4202.6	6185.6
72.5°	3161.8	3611.2	4624.4	3808.3	4088.3	6635.0	*5334.0*	7135.7	5002.9	3784.7	5625.8
75°	1994.8	2326.0	3181.5	2933.1	3280.1	4356.3	*3800.5*	4734.8	4147.4	3256.4	4656.0
77.5°	961.9	1099.9	1730.7	1896.3	2282.6	2787.3	*2290.5*	3299.8	2893.7	2042.2	2818.8
80°	264.1	303.6	445.5	745.1	1072.3	1722.8	*1458.7*	1750.4	1569.1	1163.0	1498.1
82.5°	102.5	114.3	130.1	295.7	504.6	926.5	*551.9*	820.0	749.1	386.4	500.7
85°	39.4	43.4	51.3	67.0	268.1	346.9	*197.1*	252.3	343.0	114.3	118.3
87.5°	3.9	3.9	7.9	7.9	7.9	11.8	*23.7*	23.7	15.8	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°	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8
2.5°	1490.2	1482.3	1454.7	1439.0	1411.4	1379.8	1360.1	1324.6	1316.8	1289.2	1301.0
5°	1600.6	1573.0	1529.6	1474.5	1419.3	1356.2	1304.9	1249.7	1202.4	1159.1	1155.1
7.5°	1655.8	1640.0	1584.8	1513.9	1427.1	1332.5	1269.4	1178.8	1123.6	1076.3	1064.4
10°	1667.6	1655.8	1604.6	1533.6	1450.8	1352.2	1261.6	1159.1	1076.3	1021.1	1001.4
12.5°	1624.3	1647.9	1612.4	1545.4	1454.7	1379.8	1297.0	1210.3	1103.9	1017.1	985.6
15°	1588.8	1624.3	1624.3	1545.4	1462.6	1391.7	1340.4	1285.2	1210.3	1092.0	1040.8
17.5°	1557.2	1616.4	1651.9	1565.1	1470.5	1383.8	1352.2	1375.9	1368.0	1237.9	1147.2
20°	1529.6	1616.4	1663.7	1577.0	1446.9	1336.5	1316.8	1419.3	1513.9	1403.5	1273.4
22.5°	1494.2	1608.5	1695.2	1573.0	1403.5	1245.8	1257.6	1403.5	1525.7	1486.3	1368.0
25°	1474.5	1612.4	1722.8	1584.8	1324.6	1123.6	1170.9	1324.6	1439.0	1450.8	1344.4
27.5°	1454.7	1632.1	1782.0	1584.8	1241.9	1040.8	1107.8	1206.4	1308.9	1328.6	1245.8
30°	1466.6	1651.9	1849.0	1596.7	1159.1	989.5	1048.7	1119.6	1174.8	1166.9	1103.9
32.5°	1474.5	1714.9	1971.2	1628.2	1072.3	961.9	1005.3	1052.6	1060.5	1044.7	981.7
35°	1498.1	1789.8	2065.8	1679.5	1025.0	930.4	961.9	969.8	973.8	950.1	906.7
37.5°	1537.5	1864.7	2164.4	1663.7	1029.0	914.6	902.8	891.0	875.2	875.2	835.8
40°	1612.4	1983.0	2266.9	1604.6	1021.1	891.0	831.8	808.2	788.5	792.4	772.7
42.5°	1726.8	2148.6	2393.0	1486.3	989.5	867.3	768.8	725.4	705.7	717.5	729.3
45°	1868.7	2337.8	2535.0	1356.2	914.6	827.9	701.7	662.3	642.6	654.4	678.1
47.5°	2038.2	2590.1	2645.3	1182.7	835.8	756.9	638.7	595.3	579.5	611.1	642.6
50°	2314.2	3000.2	2783.3	1040.8	764.8	678.1	571.6	536.2	544.0	583.5	615.0
52.5°	2905.5	3816.2	3027.8	914.6	729.3	583.5	500.7	492.8	520.4	567.7	595.3
55°	3906.9	4849.1	3177.6	855.5	689.9	528.3	445.5	473.1	500.7	555.9	587.4
57.5°	5472.0	5842.6	2945.0	804.2	670.2	520.4	414.0	457.3	492.8	548.0	575.6
60°	7163.3	6307.8	2475.8	737.2	658.4	544.0	394.2	425.8	477.0	528.3	559.8
62.5°	7466.9	6083.1	1797.7	658.4	615.0	555.9	390.3	394.2	433.7	488.9	516.5
65°	*7076.6*	*5397.1*	*1131.5*	*563.8*	*551.9*	*544.0*	*398.2*	*343.0*	*394.2*	*437.6*	*457.3*
67.5°	6520.7	4324.8	662.3	445.5	488.9	504.6	390.3	311.4	354.8	386.4	402.1
70°	5822.9	3327.4	453.4	331.2	394.2	441.5	358.8	279.9	315.4	346.9	354.8
72.5°	4738.7	2259.0	315.4	260.2	319.3	331.2	311.4	260.2	279.9	307.5	315.4
75°	3461.4	1356.2	205.0	205.0	216.8	264.1	256.3	228.7	240.5	268.1	276.0
77.5°	1888.4	571.6	134.0	149.8	141.9	216.8	205.0	185.3	185.3	212.9	220.8
80°	965.9	287.8	94.6	90.7	94.6	161.6	153.8	122.2	134.0	149.8	157.7
82.5°	331.2	126.2	63.1	55.2	63.1	82.8	98.6	86.7	94.6	94.6	90.7
85°	98.6	55.2	35.5	31.5	31.5	35.5	63.1	47.3	47.3	35.5	39.4
87.5°	15.8	15.8	15.8	15.8	15.8	15.8	19.7	19.7	19.7	19.7	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8
2.5°	1277.3	1269.4	1265.5	1249.7	1249.7	1261.6	1253.7	1265.5	1289.2	1297.0	1301.0
5°	1143.3	1135.4	1115.7	1111.8	1107.8	1111.8	1127.5	1139.3	1170.9	1190.6	1198.5
7.5°	1048.7	1029.0	1009.3	1013.2	1013.2	1017.1	1029.0	1052.6	1084.2	1107.8	1131.5
10°	977.7	958.0	954.1	950.1	958.0	969.8	989.5	1005.3	1052.6	1084.2	1111.8
12.5°	965.9	942.2	938.3	934.3	950.1	958.0	981.7	1009.3	1072.3	1107.8	1139.3
15°	997.4	958.0	954.1	958.0	958.0	985.6	1009.3	1060.5	1143.3	1198.5	1269.4
17.5°	1076.3	989.5	977.7	973.8	985.6	1013.2	1040.8	1115.7	1253.7	1360.1	1442.9
20°	1151.2	1021.1	985.6	977.7	981.7	1013.2	1056.6	1159.1	1375.9	1494.2	1541.5
22.5°	1202.4	1025.0	977.7	965.9	969.8	993.5	1036.8	1170.9	1403.5	1482.3	1521.8
25°	1194.5	997.4	938.3	918.6	922.5	946.2	993.5	1127.5	1297.0	1379.8	1395.6
27.5°	1084.2	942.2	883.1	863.4	859.4	891.0	926.5	1013.2	1166.9	1249.7	1265.5
30°	981.7	843.7	816.1	792.4	796.4	820.0	835.8	906.7	1068.4	1131.5	1131.5
32.5°	879.2	776.7	749.1	733.3	733.3	749.1	764.8	835.8	965.9	1017.1	1036.8
35°	827.9	741.2	709.6	678.1	674.1	697.8	737.2	800.3	898.9	938.3	934.3
37.5°	792.4	725.4	674.1	638.7	626.8	662.3	721.5	772.7	835.8	847.6	851.6
40°	760.9	709.6	658.4	611.1	603.2	642.6	701.7	753.0	780.6	776.7	768.8
42.5°	725.4	701.7	638.7	591.4	583.5	619.0	678.1	717.5	709.6	705.7	689.9
45°	689.9	670.2	607.1	563.8	555.9	587.4	638.7	678.1	670.2	642.6	619.0
47.5°	654.4	642.6	595.3	548.0	540.1	579.5	622.9	658.4	638.7	615.0	591.4
50°	630.8	634.7	599.2	567.7	555.9	591.4	630.8	650.5	619.0	591.4	567.7
52.5°	619.0	642.6	615.0	583.5	579.5	607.1	634.7	642.6	599.2	571.6	548.0
55°	619.0	646.6	626.8	595.3	599.2	611.1	626.8	634.7	583.5	551.9	528.3
57.5°	611.1	642.6	615.0	603.2	603.2	603.2	622.9	619.0	567.7	536.2	512.5
60°	591.4	615.0	599.2	583.5	579.5	591.4	607.1	591.4	540.1	508.6	484.9
62.5°	540.1	571.6	567.7	551.9	540.1	555.9	571.6	551.9	500.7	473.1	461.3
65°	*477.0*	*504.6*	*512.5*	*492.8*	*488.9*	*516.5*	*512.5*	*496.7*	*457.3*	*437.6*	*425.8*
67.5°	414.0	441.5	441.5	437.6	441.5	445.5	457.3	441.5	410.0	398.2	390.3
70°	370.6	390.3	386.4	370.6	370.6	394.2	406.1	406.1	382.4	366.6	362.7
72.5°	323.3	339.0	331.2	319.3	295.7	343.0	362.7	366.6	343.0	331.2	323.3
75°	283.9	295.7	287.8	244.4	244.4	276.0	319.3	315.4	291.7	279.9	276.0
77.5°	232.6	240.5	232.6	197.1	193.2	220.8	256.3	256.3	248.4	232.6	228.7
80°	161.6	177.4	161.6	141.9	138.0	161.6	193.2	197.1	181.3	173.5	169.5
82.5°	98.6	114.3	106.4	86.7	86.7	110.4	122.2	126.2	102.5	90.7	94.6
85°	39.4	47.3	51.3	47.3	35.5	43.4	55.2	47.3	43.4	43.4	43.4
87.5°	19.7	15.8	15.8	11.8	11.8	11.8	11.8	15.8	19.7	19.7	23.7
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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8	1383.8
2.5°	1316.8	1328.6	1352.2	1375.9	1407.4	1415.3	1442.9	1454.7	1462.6	1466.6
5°	1241.9	1277.3	1320.7	1364.1	1411.4	1454.7	1498.1	1537.5	1549.4	1557.2
7.5°	1194.5	1245.8	1297.0	1360.1	1411.4	1454.7	1537.5	1580.9	1600.6	1604.6
10°	1186.7	1257.6	1320.7	1372.0	1419.3	1470.5	1541.5	1608.5	1624.3	1632.1
12.5°	1234.0	1312.8	1352.2	1391.7	1435.0	1466.6	1553.3	1624.3	1640.0	1640.0
15°	1348.3	1360.1	1368.0	1383.8	1427.1	1482.3	1565.1	1620.3	1632.1	1628.2
17.5°	1490.2	1391.7	1316.8	1340.4	1419.3	1482.3	1577.0	1628.2	1620.3	1620.3
20°	1506.0	1360.1	1241.9	1253.7	1368.0	1482.3	1592.7	1632.1	1616.4	1608.5
22.5°	1435.0	1304.9	1174.8	1147.2	1304.9	1494.2	1624.3	1651.9	1604.6	1592.7
25°	1336.5	1230.0	1131.5	1064.4	1237.9	1494.2	1671.6	1679.5	1616.4	1596.7
27.5°	1230.0	1166.9	1084.2	1013.2	1166.9	1521.8	1758.3	1722.8	1624.3	1588.8
30°	1123.6	1088.1	1040.8	977.7	1111.8	1573.0	1860.8	1801.7	1655.8	1608.5
32.5°	1032.9	1025.0	989.5	954.1	1076.3	1632.1	1979.1	1888.4	1699.2	1647.9
35°	934.3	942.2	930.4	938.3	1064.4	1663.7	2101.3	2010.6	1785.9	1707.1
37.5°	855.5	867.3	871.3	938.3	1052.6	1647.9	2199.9	2140.7	1864.7	1801.7
40°	780.6	796.4	827.9	938.3	1013.2	1561.2	2333.9	2294.5	1998.8	1912.1
42.5°	701.7	725.4	776.7	918.6	950.1	1446.9	2475.8	2515.2	2168.3	2073.7
45°	634.7	658.4	721.5	827.9	879.2	1320.7	2613.8	2810.9	2408.8	2286.6
47.5°	567.7	591.4	658.4	741.2	808.2	1186.7	2822.7	3248.5	2771.5	2669.0
50°	536.2	528.3	571.6	658.4	788.5	1088.1	3177.6	3879.3	3394.4	3232.8
52.5°	516.5	500.7	496.7	587.4	772.7	1029.0	3532.4	4983.2	4356.3	4226.2
55°	500.7	481.0	461.3	579.5	749.1	946.2	3634.9	6201.4	5886.0	5566.7
57.5°	488.9	465.2	441.5	611.1	745.1	839.7	3272.2	6970.1	7419.6	7340.7
60°	457.3	441.5	437.6	622.9	713.6	729.3	2511.3	6922.8	8488.0	8598.3
62.5°	433.7	402.1	457.3	626.8	634.7	607.1	1612.4	6027.9	7872.9	8223.8
65°	*406.1*	*362.7*	*481.0*	*595.3*	*536.2*	*484.9*	*824.0*	*4758.5*	*6615.3*	*7135.7*
67.5°	370.6	331.2	484.9	516.5	445.5	354.8	524.3	3642.8	5606.1	5956.9
70°	343.0	315.4	417.9	429.7	346.9	276.0	323.3	2337.8	4159.2	4557.4
72.5°	307.5	295.7	366.6	315.4	264.1	212.9	208.9	1210.3	2866.1	3161.8
75°	256.3	264.1	315.4	264.1	177.4	165.6	149.8	583.5	1651.9	1994.8
77.5°	212.9	205.0	256.3	205.0	134.0	114.3	110.4	240.5	820.0	961.9
80°	157.7	149.8	189.2	141.9	86.7	71.0	74.9	130.1	197.1	264.1
82.5°	106.4	102.5	130.1	71.0	51.3	43.4	47.3	71.0	98.6	102.5
85°	47.3	51.3	59.1	35.5	23.7	19.7	19.7	27.6	35.5	39.4
87.5°	23.7	19.7	15.8	11.8	7.9	7.9	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

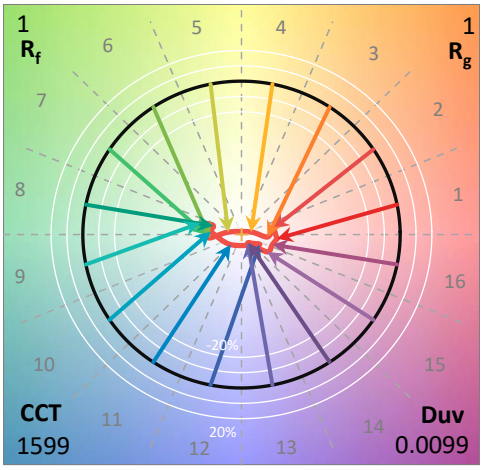
Test Information

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

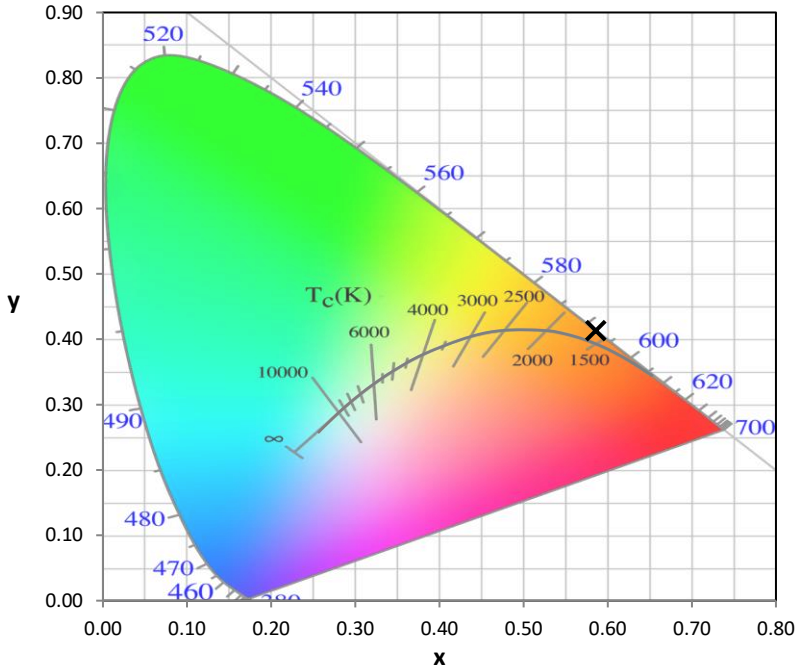
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

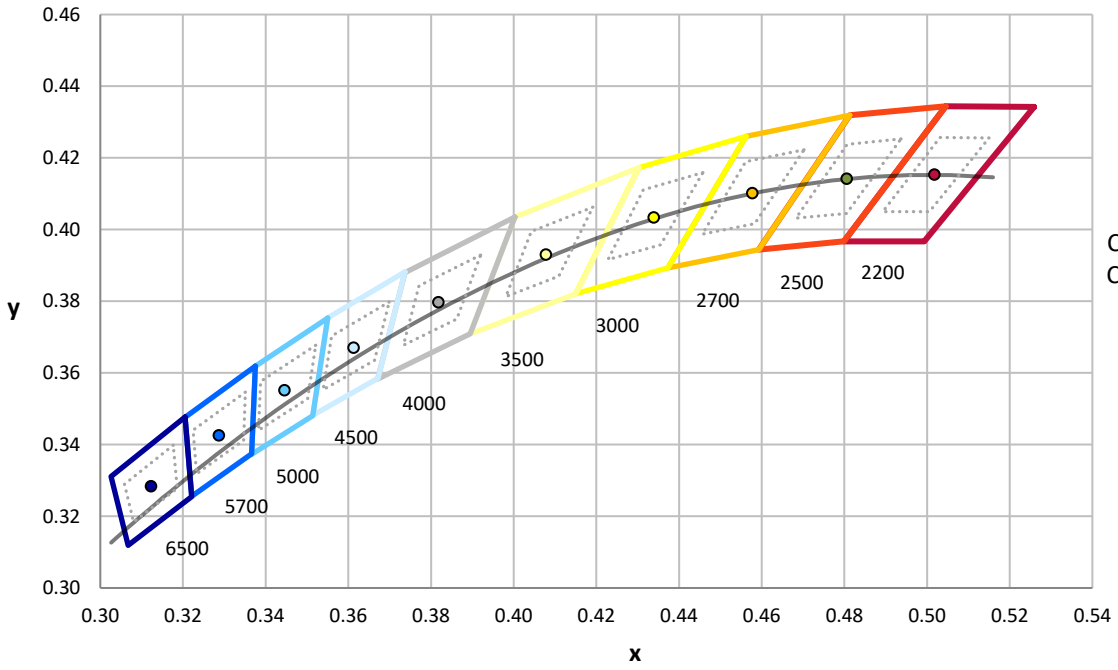
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

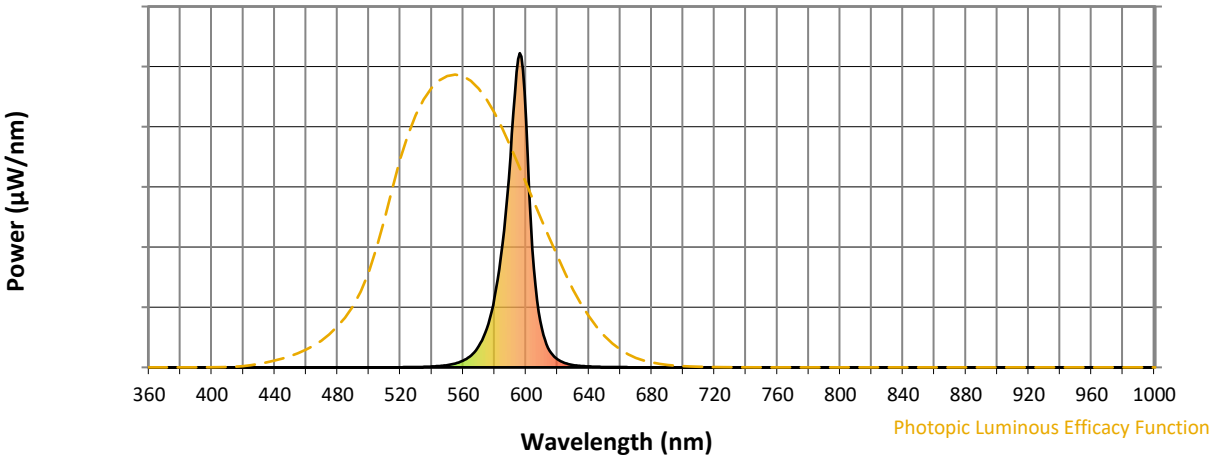


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

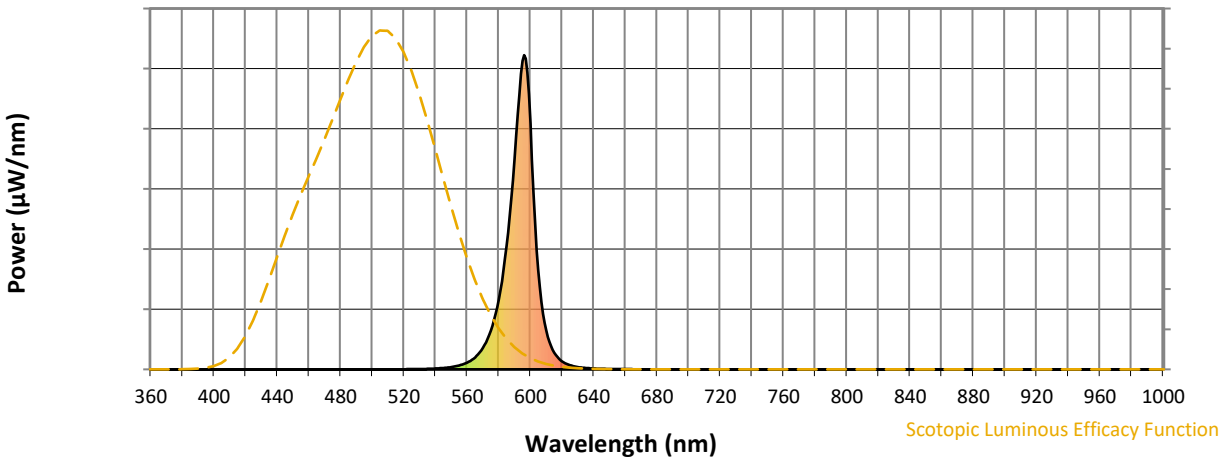


Photopic Lumens: NR

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

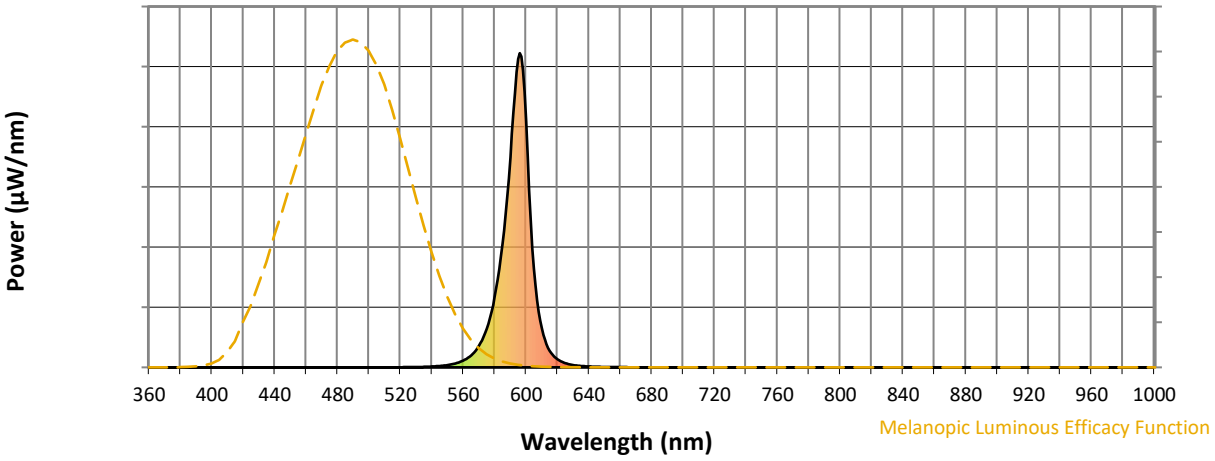


Scotopic Lumens: NR **S/P: 0.23**

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			

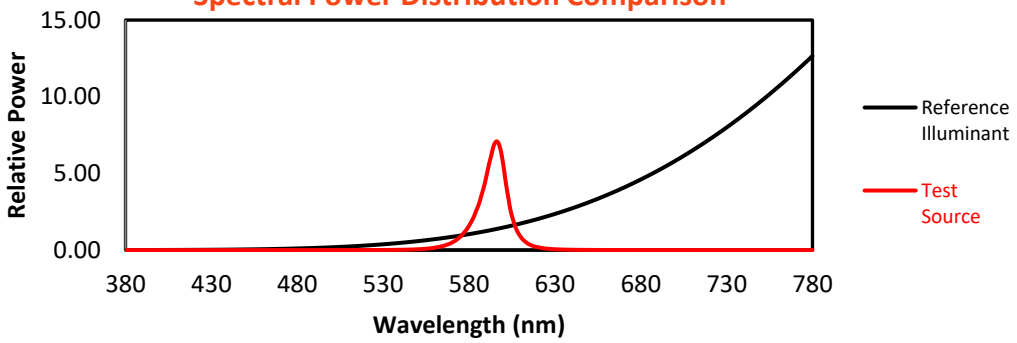
REPORT NUMBER: SP3-2509-541-1

TM-30-18

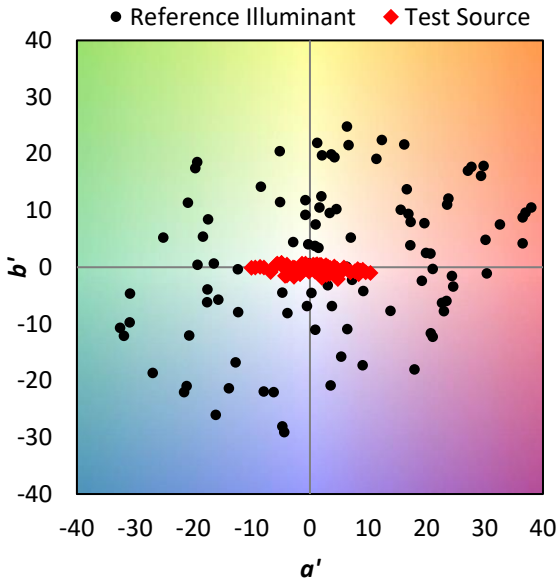
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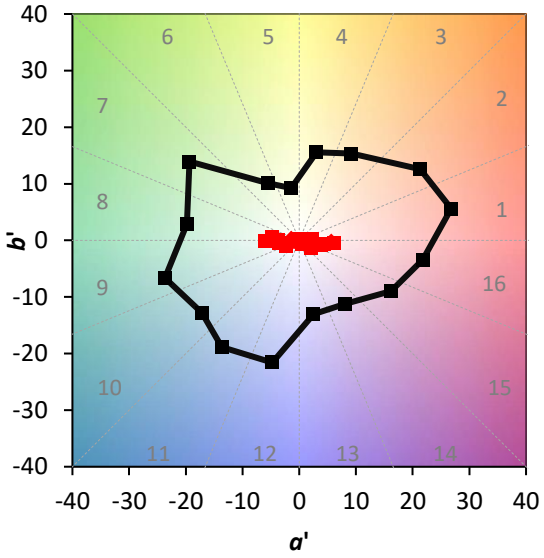
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

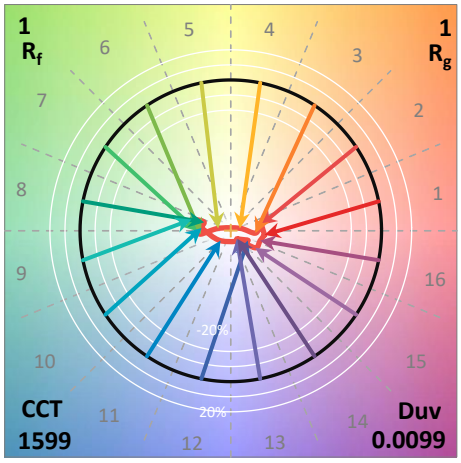
Spectral Power Distribution Comparison

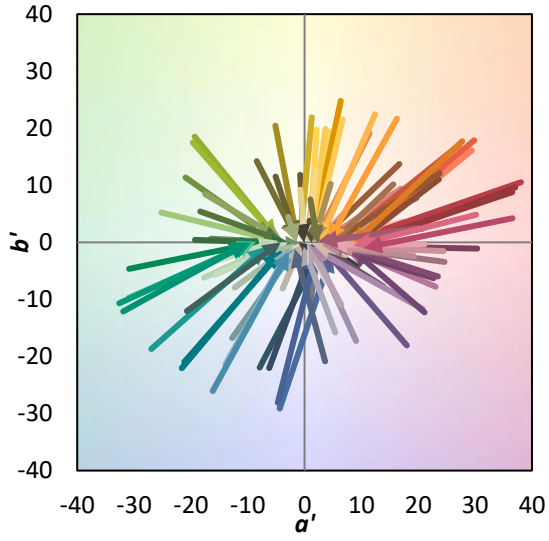


Color Vector Graphics







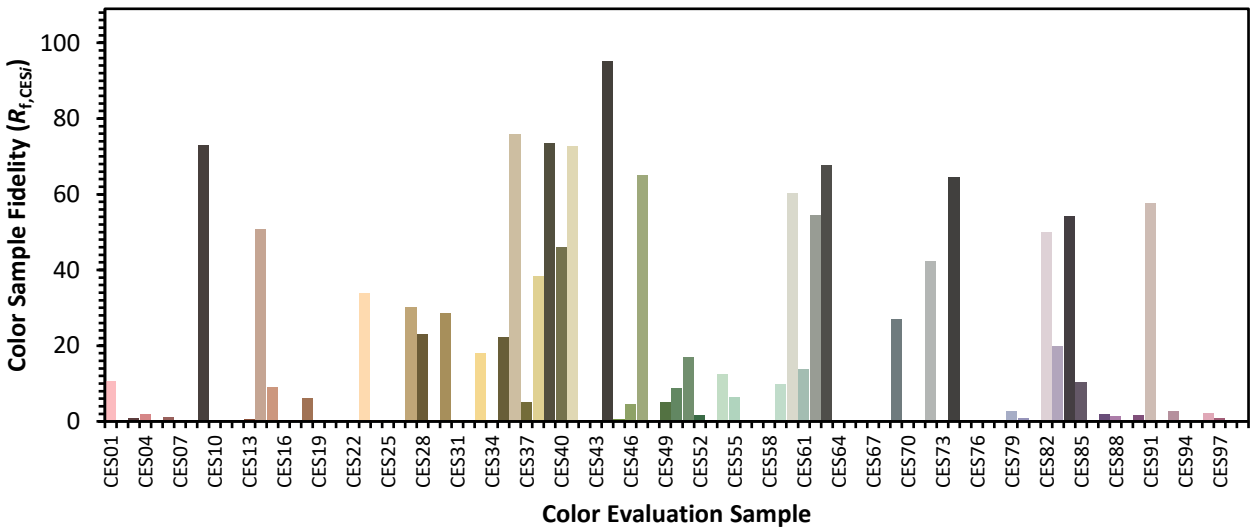


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

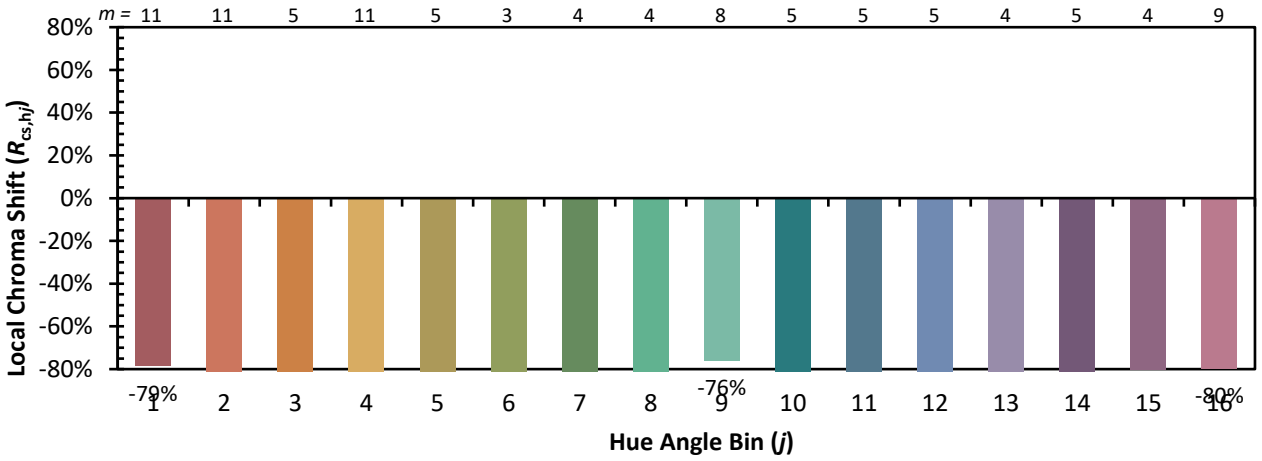
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CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 =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

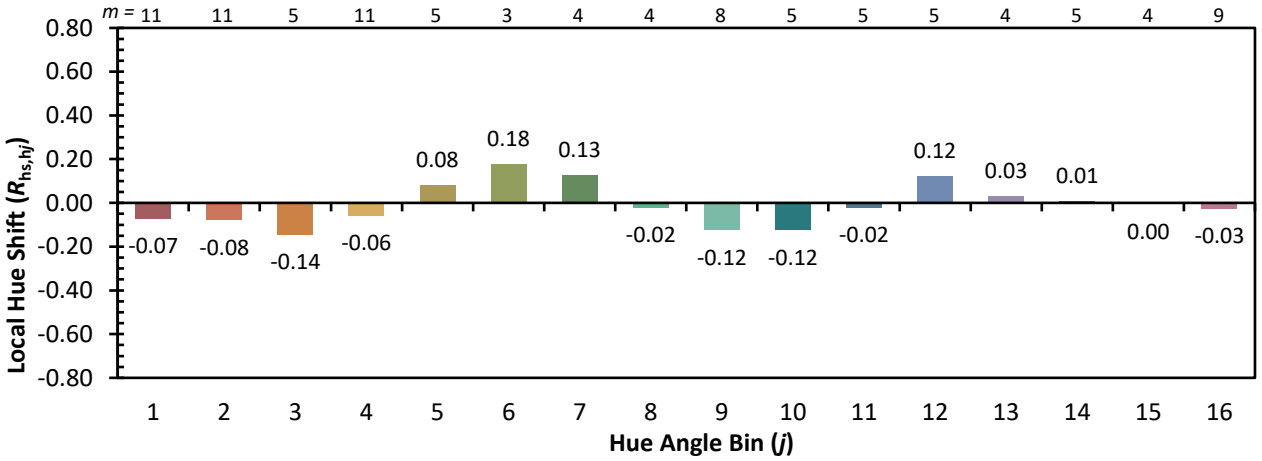


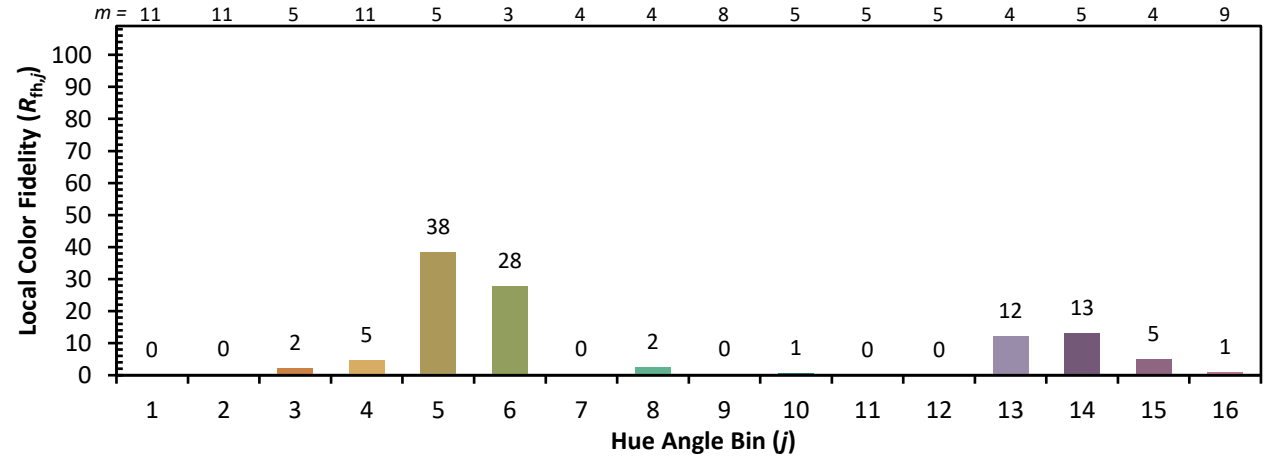
REPORT NUMBER: SP3-2509-541-1

TM-30-18

Color Rendition by Hue-Angle Bin



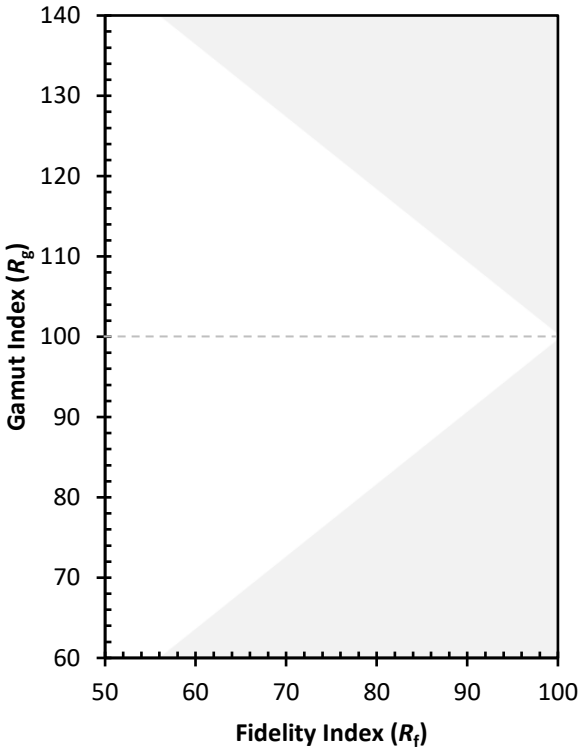


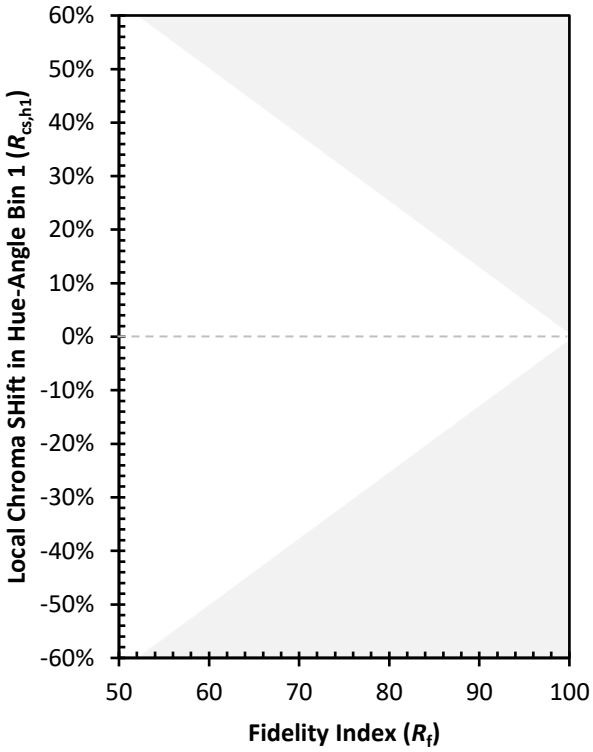


REPORT NUMBER: SP3-2509-541-1

TM-30-18

Measure Comparisons





(END OF REPORT)