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: P1501497

Luminaire Tested: GSS-SB2A-827-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501497
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 58W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7206.9 lumens
Efficiency:	N/A
Efficacy:	124.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

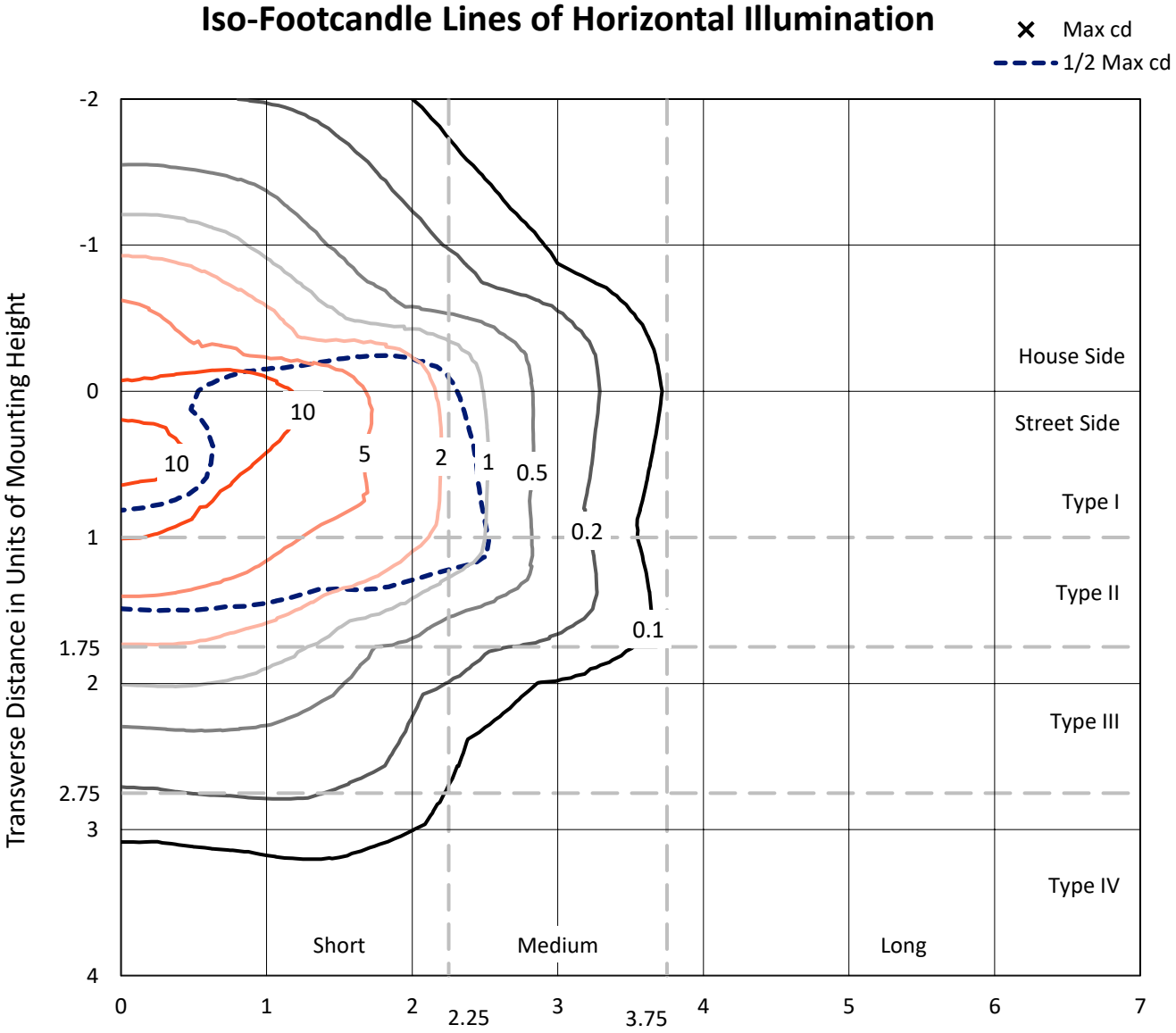
Input Watts (W):	58
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



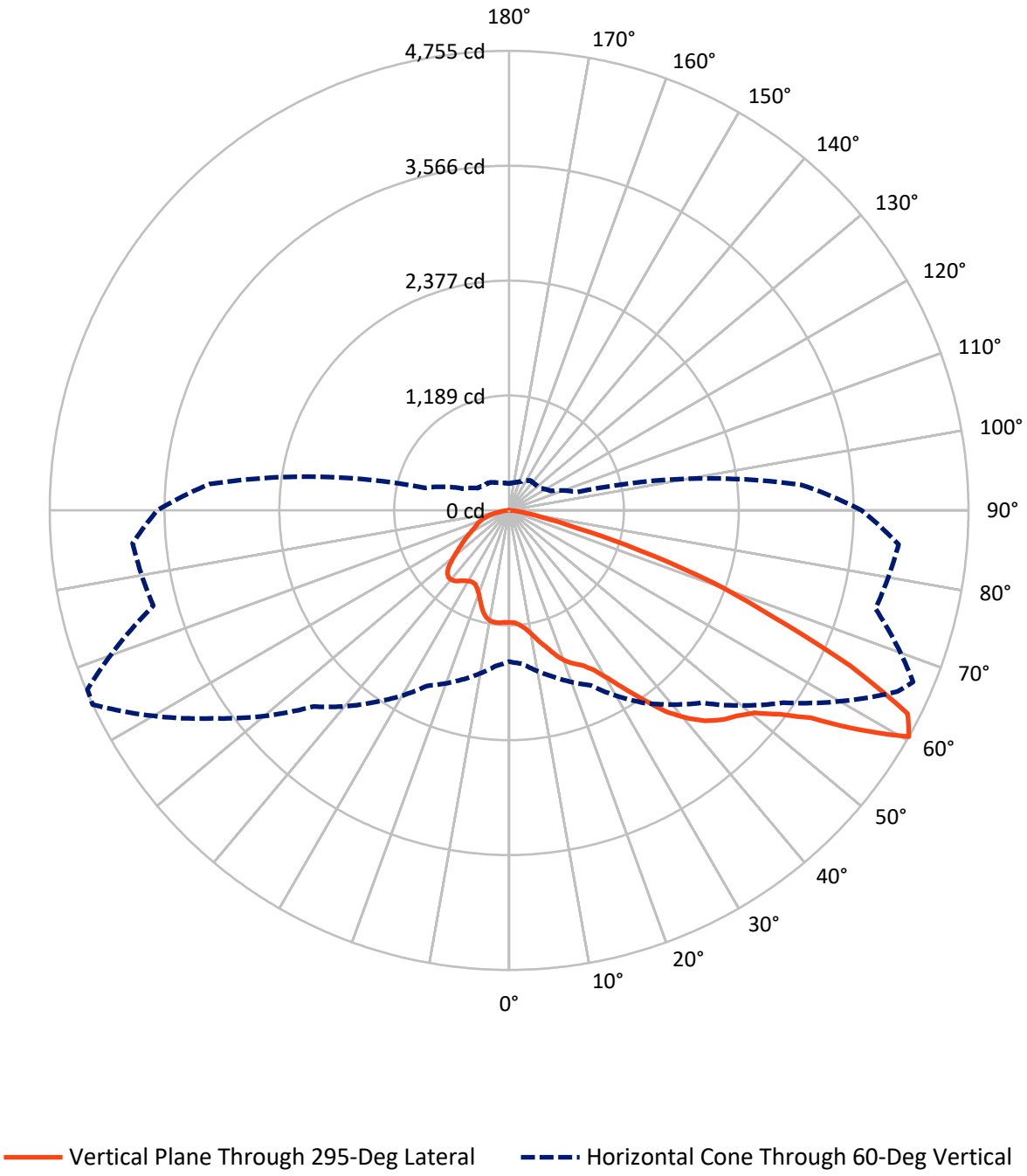
Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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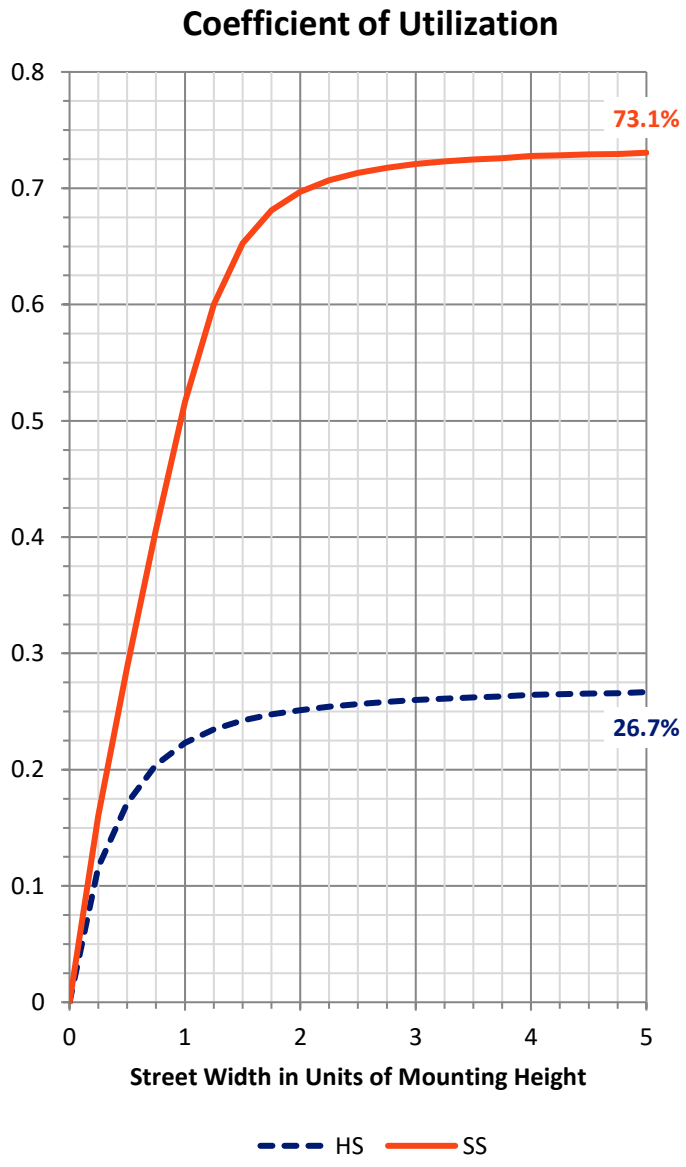
REPORT NUMBER: P1501497
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1938.0	0.0	1938.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5268.9	0.0	5268.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	7206.9	0.0	7206.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.5
10°-20°	313.4	4.3
20°-30°	593.7	8.2
30°-40°	1046.6	14.5
40°-50°	1547.8	21.5
50°-60°	1817.5	25.2
60°-70°	1316.9	18.3
70°-80°	406.1	5.6
80°-90°	55.9	0.8
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°	7206.9	100.0
0°-180°	7206.9	100.0



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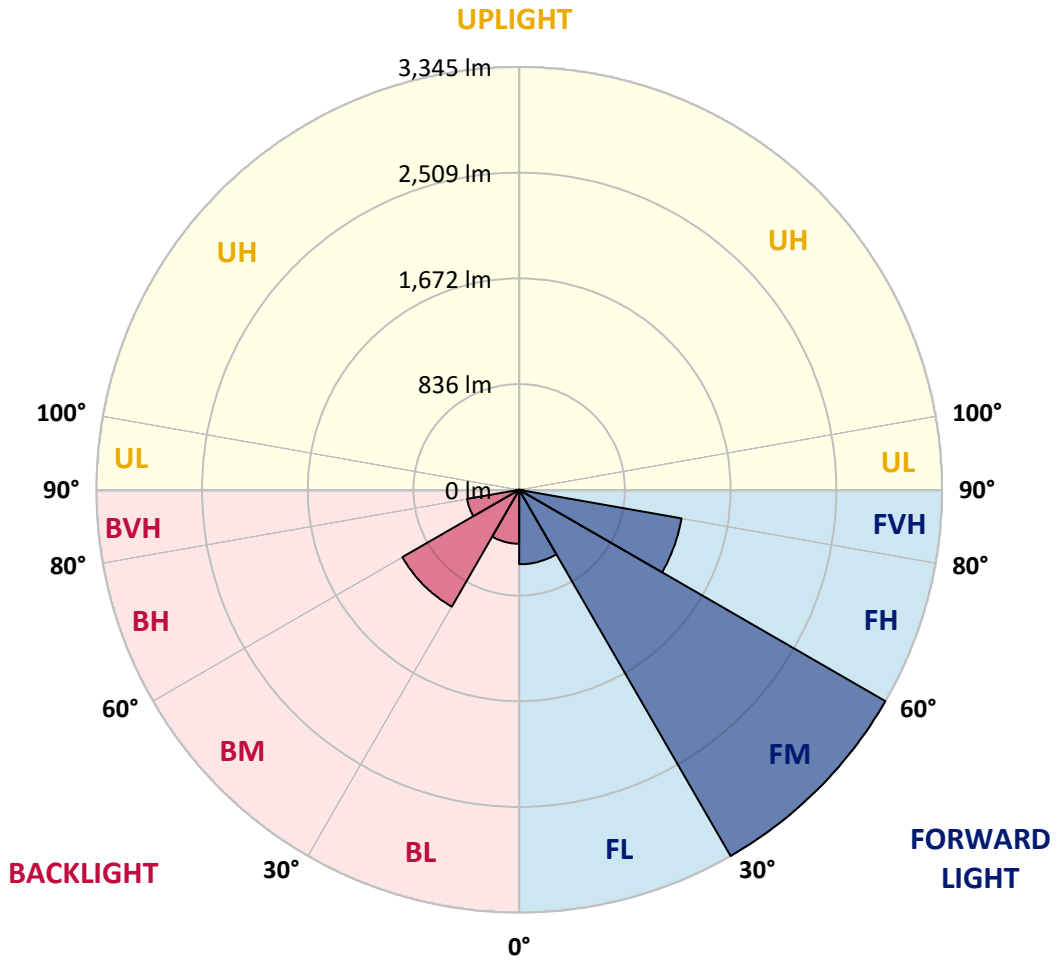
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	589.3	8.2			
FM	(30°-60°)	3344.8	46.4			
FH	(60°-80°)	1304.7	18.1			G1/1800
FVH	(80°-90°)	30.2	0.4			G1/100
BL	(0°-30°)	426.8	5.9	B1/500		
BM	(30°-60°)	1067.1	14.8	B2/2500		
BH	(60°-80°)	418.3	5.8	B1/500		G1/500
BVH	(80°-90°)	25.7	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-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1182.5	1185.8	1180.9	1184.2	1184.2	1179.3	1177.6	1171.1	1174.3	1172.7	1171.1
5°	1210.5	1212.1	1208.8	1213.8	1213.8	1215.4	1213.8	1205.5	1205.5	1205.5	1202.3
7.5°	1202.3	1202.3	1203.9	1220.3	1236.7	1258.1	1258.1	1254.8	1258.1	1256.5	1241.7
10°	1133.3	1139.8	1154.6	1195.7	1235.1	1281.1	1312.3	1322.2	1322.2	1323.8	1299.2
12.5°	1010.1	1015.0	1049.5	1111.9	1194.0	1277.8	1353.4	1402.6	1407.6	1415.8	1382.9
15°	900.1	903.3	928.0	992.0	1085.6	1233.5	1376.4	1478.2	1494.6	1529.1	1479.8
17.5°	909.9	908.3	914.8	939.5	1006.8	1161.2	1371.4	1566.9	1596.4	1657.2	1614.5
20°	969.0	969.0	974.0	978.9	1003.5	1108.6	1335.3	1639.1	1696.6	1814.9	1765.6
22.5°	1062.7	1062.7	1061.0	1069.2	1069.2	1131.6	1336.9	1693.3	1778.8	1990.6	1943.0
25°	1192.4	1185.8	1185.8	1189.1	1174.3	1218.7	1378.0	1749.2	1860.9	2199.2	2158.2
27.5°	1338.6	1343.5	1340.2	1328.7	1309.0	1343.5	1476.5	1836.2	1952.8	2419.3	2402.9
30°	1497.9	1499.5	1502.8	1496.3	1479.8	1504.5	1630.9	1967.6	2074.4	2649.2	2685.4
32.5°	1653.9	1676.9	1668.7	1652.3	1658.9	1703.2	1821.5	2145.0	2255.1	2862.8	2990.9
35°	1852.7	1860.9	1893.7	1833.0	1834.6	1910.1	2064.5	2378.2	2485.0	3084.5	3296.4
37.5°	2141.7	2156.5	2141.7	2046.5	2031.7	2136.8	2301.0	2608.2	2685.4	3252.0	3580.5
40°	2425.9	2443.9	2468.6	2356.9	2263.3	2350.3	2524.4	2783.9	2864.4	3344.0	3769.4
42.5°	2660.7	2690.3	2664.0	2631.2	2545.8	2562.2	2680.4	2920.2	3000.7	3460.6	3959.9
45°	2859.5	2864.4	2875.9	2852.9	2810.2	2795.4	2813.5	3040.1	3128.8	3513.2	4053.5
47.5°	2941.6	2962.9	2972.8	3012.2	3056.6	3027.0	2926.8	3096.0	3176.5	3509.9	4083.1
50°	2897.2	2918.6	2971.2	3064.8	3171.5	3224.1	3059.8	3173.2	3263.5	3569.0	4143.9
52.5°	2780.6	2803.6	2889.0	2995.8	3174.8	3294.7	3247.1	3334.1	3421.2	3674.1	4245.7
55°	2498.1	2532.6	2652.5	2829.9	3076.3	3256.9	3444.2	3570.6	3665.9	3800.6	4350.8
57.5°	2087.5	2123.7	2258.3	2524.4	2894.0	3100.9	3501.7	4014.1	4056.8	3951.7	4360.7
60°	*1563.6*	*1593.2*	*1783.7*	*1997.2*	*2430.8*	*2815.1*	*3468.8*	*4434.6*	*4543.0*	*3925.4*	*4046.9*
62.5°	1238.4	1274.5	1443.7	1542.2	1852.7	2325.7	3353.8	4551.2	4644.8	3708.6	3610.1
65°	967.4	992.0	1149.7	1291.0	1366.5	1588.2	2874.3	3981.3	4065.0	3355.5	2979.4
67.5°	638.9	676.7	863.9	1057.7	1097.1	1010.1	1977.5	3063.1	3102.6	2667.3	2240.3
70°	458.2	476.3	615.9	822.9	882.0	676.7	1077.4	2319.1	2330.6	1790.2	1509.4
72.5°	312.1	315.3	418.8	630.7	703.0	491.1	592.9	1527.5	1488.0	883.6	863.9
75°	211.9	215.2	267.7	420.5	497.7	341.6	386.0	832.7	799.9	487.8	523.9
77.5°	142.9	146.2	184.0	282.5	331.8	236.5	282.5	440.2	432.0	323.6	280.9
80°	108.4	113.3	136.3	180.7	231.6	138.0	161.0	208.6	211.9	172.5	142.9
82.5°	60.8	67.3	82.1	92.0	149.5	77.2	77.2	124.8	119.9	106.8	77.2
85°	26.3	27.9	32.8	34.5	60.8	32.8	27.9	54.2	55.8	52.6	24.6
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	6.6	6.6
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°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1162.8	1172.7	1162.8	1157.9	1157.9	1149.7	1146.4	1146.4	1134.9	1139.8	1136.6
5°	1189.1	1192.4	1180.9	1166.1	1146.4	1130.0	1107.0	1077.4	1059.4	1057.7	1059.4
7.5°	1230.2	1231.8	1200.6	1167.8	1118.5	1059.4	988.7	931.3	880.3	872.1	882.0
10°	1287.7	1284.4	1238.4	1161.2	1057.7	932.9	824.5	771.9	742.4	740.7	739.1
12.5°	1364.9	1343.5	1272.9	1133.3	952.6	808.1	752.2	748.9	757.2	763.7	765.4
15°	1453.6	1425.6	1300.8	1079.1	845.9	762.1	765.4	793.3	803.1	809.7	809.7
17.5°	1563.6	1527.5	1332.0	1001.9	791.7	771.9	794.9	821.2	837.6	844.2	842.6
20°	1709.8	1634.2	1356.6	928.0	776.9	788.4	808.1	834.4	850.8	859.0	859.0
22.5°	1855.9	1762.3	1361.6	877.1	776.9	790.0	808.1	834.4	852.4	860.6	859.0
25°	2054.7	1926.6	1363.2	840.9	778.5	781.8	798.2	821.2	847.5	855.7	859.0
27.5°	2266.6	2107.2	1371.4	832.7	771.9	770.3	781.8	803.1	829.4	850.8	852.4
30°	2529.3	2310.9	1374.7	840.9	773.6	752.2	760.4	781.8	809.7	831.1	837.6
32.5°	2787.2	2499.8	1368.1	859.0	776.9	740.7	742.4	755.5	785.1	799.9	811.4
35°	3059.8	2700.2	1356.6	883.6	778.5	735.8	721.0	727.6	747.3	748.9	753.9
37.5°	3273.4	2849.6	1322.2	916.5	781.8	717.7	688.2	683.3	675.0	658.6	661.9
40°	3449.1	2949.8	1264.7	932.9	773.6	696.4	647.1	624.1	592.9	568.3	573.2
42.5°	3575.6	3017.1	1195.7	936.2	760.4	660.3	599.5	560.1	525.6	499.3	500.9
45°	3631.4	3010.6	1121.8	911.5	729.2	615.9	555.1	517.4	479.6	451.7	448.4
47.5°	3633.1	2946.5	1019.9	852.4	676.7	565.0	514.1	473.0	441.8	422.1	420.5
50°	3646.2	2910.4	924.7	767.0	607.7	510.8	477.9	436.9	418.8	390.9	382.7
52.5°	3728.3	2969.5	859.0	673.4	543.6	471.4	446.7	410.6	381.0	363.0	361.3
55°	3861.4	3071.3	822.9	602.8	482.9	433.6	417.2	386.0	359.7	341.6	336.7
57.5°	3877.8	3123.9	780.2	537.1	433.6	404.0	397.5	363.0	325.2	312.1	307.1
60°	*3647.8*	*3035.2*	*727.6*	*476.3*	*397.5*	*381.0*	*377.8*	*331.8*	*300.6*	*284.1*	*277.6*
62.5°	3334.1	2813.5	647.1	420.5	369.5	358.0	344.9	308.8	269.4	251.3	246.4
65°	2724.8	2365.1	550.2	382.7	341.6	328.5	325.2	275.9	249.6	239.8	238.2
67.5°	2064.5	1900.3	484.5	354.8	312.1	307.1	295.6	279.2	267.7	256.2	252.9
70°	1460.1	1371.4	412.2	318.6	282.5	274.3	321.9	303.8	262.8	248.0	246.4
72.5°	885.3	860.6	356.4	285.8	243.1	256.2	297.3	274.3	236.5	218.4	211.9
75°	558.4	510.8	298.9	243.1	193.8	208.6	259.5	244.7	203.7	185.6	180.7
77.5°	303.8	282.5	225.0	198.7	152.7	169.2	226.7	202.0	162.6	177.4	157.7
80°	133.0	147.8	149.5	115.0	101.8	124.8	162.6	157.7	124.8	126.5	105.1
82.5°	64.1	83.8	96.9	78.8	57.5	73.9	108.4	90.3	83.8	78.8	75.6
85°	19.7	31.2	42.7	37.8	26.3	31.2	50.9	49.3	59.1	50.9	47.6
87.5°	6.6	6.6	4.9	4.9	4.9	6.6	8.2	4.9	1.6	1.6	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1134.9	1136.6	1136.6	1138.2	1138.2	1143.1	1149.7	1156.3	1151.3	1157.9	1159.6
5°	1056.1	1064.3	1070.9	1095.5	1115.2	1131.6	1149.7	1166.1	1171.1	1174.3	1182.5
7.5°	870.5	893.5	936.2	992.0	1054.4	1115.2	1156.3	1199.0	1205.5	1213.8	1225.3
10°	740.7	750.6	780.2	837.6	949.3	1069.2	1169.4	1236.7	1264.7	1281.1	1292.6
12.5°	762.1	755.5	750.6	758.8	831.1	985.5	1161.2	1291.0	1343.5	1361.6	1376.4
15°	813.0	806.4	788.4	765.4	773.6	896.8	1133.3	1341.9	1425.6	1455.2	1486.4
17.5°	842.6	836.0	821.2	796.6	775.2	822.9	1080.7	1387.9	1555.4	1591.5	1635.9
20°	859.0	852.4	837.6	813.0	788.4	794.9	1013.4	1445.3	1703.2	1760.7	1826.4
22.5°	862.3	854.1	837.6	813.0	798.2	793.3	949.3	1479.8	1862.5	1951.2	2026.8
25°	860.6	845.9	824.5	806.4	798.2	796.6	905.0	1499.5	2035.0	2176.2	2261.6
27.5°	849.1	831.1	809.7	796.6	793.3	803.1	885.3	1522.5	2237.0	2417.7	2554.0
30°	836.0	809.7	783.4	778.5	786.7	817.9	901.7	1530.7	2448.9	2680.4	2820.1
32.5°	801.5	781.8	755.5	753.9	773.6	829.4	939.5	1519.2	2636.1	2943.2	3119.0
35°	752.2	740.7	726.0	730.9	762.1	839.3	965.7	1483.1	2806.9	3188.0	3393.3
37.5°	665.2	673.4	681.6	693.1	732.5	837.6	977.2	1425.6	2948.2	3383.4	3646.2
40°	568.3	596.2	622.5	652.0	704.6	824.5	980.5	1355.0	3030.3	3531.2	3871.2
42.5°	507.5	533.8	566.6	609.3	666.8	794.9	977.2	1276.2	3056.6	3633.1	4014.1
45°	451.7	482.9	523.9	568.3	634.0	752.2	947.7	1190.8	3069.7	3680.7	4074.9
47.5°	422.1	440.2	477.9	522.3	591.3	699.7	890.2	1128.3	3050.0	3690.5	4148.8
50°	387.6	412.2	436.9	479.6	546.9	634.0	821.2	1092.2	3082.8	3787.4	4265.4
52.5°	361.3	374.5	400.8	440.2	489.4	573.2	755.5	1062.7	3173.2	3886.0	4386.9
55°	341.6	356.4	372.8	405.7	443.5	512.4	688.2	1018.3	3278.3	3991.1	4508.5
57.5°	310.4	320.3	343.3	377.8	402.4	453.3	609.3	965.7	3270.1	3909.0	4298.2
60°	*282.5*	*292.4*	*317.0*	*351.5*	*366.3*	*400.8*	*532.1*	*898.4*	*3112.4*	*3641.3*	*3910.6*
62.5°	251.3	262.8	292.4	317.0	330.1	356.4	451.7	775.2	2783.9	3238.9	3457.3
65°	238.2	244.7	264.4	294.0	292.4	317.0	381.0	609.3	2240.3	2475.1	2673.9
67.5°	252.9	262.8	259.5	267.7	262.8	275.9	341.6	489.4	1760.7	1864.2	1979.1
70°	249.6	272.6	284.1	267.7	229.9	244.7	295.6	390.9	1259.7	1249.9	1245.0
72.5°	218.4	241.4	274.3	290.7	225.0	203.7	256.2	338.3	808.1	804.8	727.6
75°	185.6	202.0	241.4	262.8	193.8	164.2	220.1	287.4	482.9	489.4	436.9
77.5°	170.8	162.6	202.0	231.6	157.7	126.5	177.4	216.8	266.1	269.4	249.6
80°	123.2	118.3	151.1	169.2	119.9	90.3	100.2	134.7	142.9	128.1	133.0
82.5°	78.8	80.5	90.3	108.4	73.9	49.3	69.0	90.3	77.2	62.4	73.9
85°	50.9	57.5	47.6	55.8	23.0	23.0	29.6	39.4	26.3	18.1	19.7
87.5°	0.0	0.0	3.3	6.6	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: P1501497
CATALOG NUMBER: GSS-SB2A-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1159.6	1159.6	*1159.6*	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1164.5	1162.8	*1162.8*	1166.1	1174.3	1177.6	1182.5	1180.9	1185.8	1182.5
5°	1187.5	1189.1	*1194.0*	1195.7	1200.6	1207.2	1208.8	1207.2	1210.5	1210.5
7.5°	1233.5	1240.0	*1236.7*	1245.0	1238.4	1230.2	1217.0	1207.2	1199.0	1202.3
10°	1310.7	1307.4	*1305.7*	1291.0	1261.4	1218.7	1184.2	1146.4	1139.8	1133.3
12.5°	1396.1	1392.8	*1392.8*	1341.9	1258.1	1169.4	1090.6	1031.4	1011.7	1010.1
15°	1516.0	1494.6	*1474.9*	1368.1	1200.6	1049.5	957.5	911.5	900.1	900.1
17.5°	1665.4	1609.6	*1576.7*	1348.4	1107.0	970.7	916.5	905.0	901.7	909.9
20°	1851.0	1709.8	*1662.1*	1304.1	1072.5	980.5	954.3	955.9	957.5	969.0
22.5°	2054.7	1801.7	*1722.9*	1304.1	1107.0	1042.9	1029.8	1047.9	1052.8	1062.7
25°	2281.3	1883.9	*1777.1*	1373.1	1208.8	1161.2	1144.8	1162.8	1176.0	1192.4
27.5°	2535.9	1969.3	*1870.7*	1497.9	1340.2	1310.7	1292.6	1300.8	1318.9	1338.6
30°	2764.2	2112.2	*2013.6*	1688.4	1519.2	1483.1	1451.9	1465.0	1484.8	1497.9
32.5°	2966.2	2286.3	*2202.5*	1888.8	1724.6	1662.1	1627.6	1624.4	1663.8	1653.9
35°	3151.8	2491.6	*2411.1*	2117.1	1933.1	1855.9	1810.0	1869.1	1842.8	1852.7
37.5°	3298.0	2705.1	*2641.0*	2335.5	2149.9	2044.8	2016.9	2089.2	2130.2	2141.7
40°	3417.9	2890.7	*2823.3*	2552.3	2348.7	2271.5	2315.8	2435.7	2430.8	2425.9
42.5°	3509.9	3050.0	*2976.1*	2716.6	2539.2	2554.0	2588.5	2668.9	2688.7	2660.7
45°	3550.9	3150.2	*3091.1*	2846.3	2756.0	2841.4	2856.2	2890.7	2877.5	2859.5
47.5°	3598.6	3238.9	*3176.5*	2964.6	2990.9	3074.6	3045.1	3017.1	2969.5	2941.6
50°	3679.0	3344.0	*3291.4*	3137.0	3232.3	3204.4	3089.4	3027.0	2930.1	2897.2
52.5°	3831.8	3542.7	*3503.3*	3409.7	3345.6	3184.7	3045.1	2933.4	2825.0	2780.6
55°	3968.1	3812.1	*3789.1*	3664.3	3311.1	3081.2	2894.0	2721.5	2535.9	2498.1
57.5°	4046.9	4258.8	*4285.1*	3772.7	3153.5	2846.3	2570.4	2294.5	2118.7	2087.5
60°	*3812.1*	*4741.7*	*4754.8*	*3751.3*	*2869.3*	*2422.6*	*2002.1*	*1806.7*	*1617.8*	*1563.6*
62.5°	3488.5	4641.5	*4630.0*	3623.2	2284.6	1767.3	1520.9	1428.9	1282.7	1238.4
65°	2999.1	3866.3	*3879.4*	3130.5	1519.2	1277.8	1277.8	1161.2	998.6	967.4
67.5°	2443.9	2981.0	*2951.4*	2030.0	932.9	1023.2	1072.5	905.0	676.7	638.9
70°	1588.2	2276.4	*2235.3*	1171.1	586.3	852.4	844.2	680.0	484.5	458.2
72.5°	683.3	1315.6	*1399.4*	597.8	441.8	686.5	673.4	476.3	323.6	312.1
75°	412.2	661.9	*721.0*	381.0	321.9	517.4	466.5	302.2	220.1	211.9
77.5°	261.1	363.0	*359.7*	285.8	241.4	349.8	313.7	208.6	149.5	142.9
80°	151.1	179.0	*185.6*	179.0	162.6	249.6	200.4	151.1	116.6	108.4
82.5°	96.9	111.7	*113.3*	87.0	90.3	161.0	108.4	88.7	67.3	60.8
85°	42.7	47.6	*46.0*	29.6	29.6	65.7	37.8	36.1	26.3	26.3
87.5°	1.6	3.3	*1.6*	1.6	1.6	6.6	3.3	4.9	4.9	4.9
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

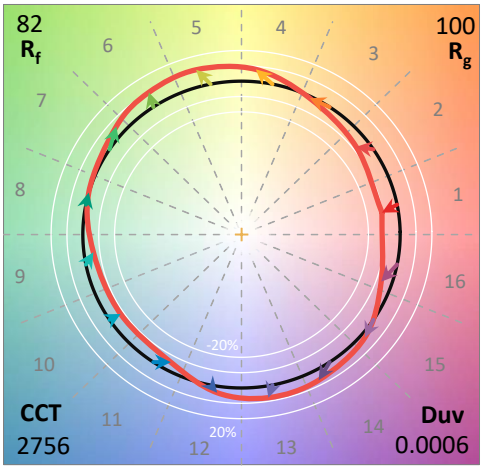
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

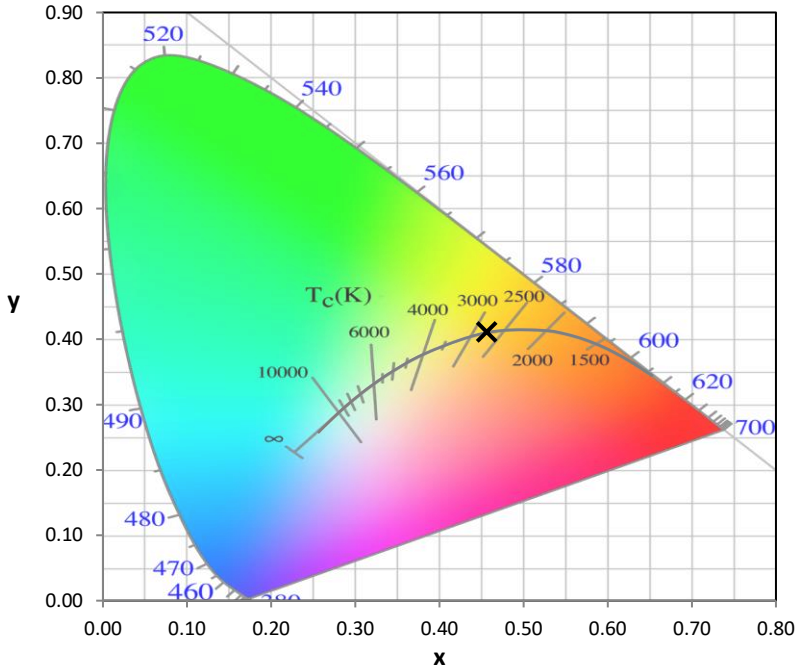
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

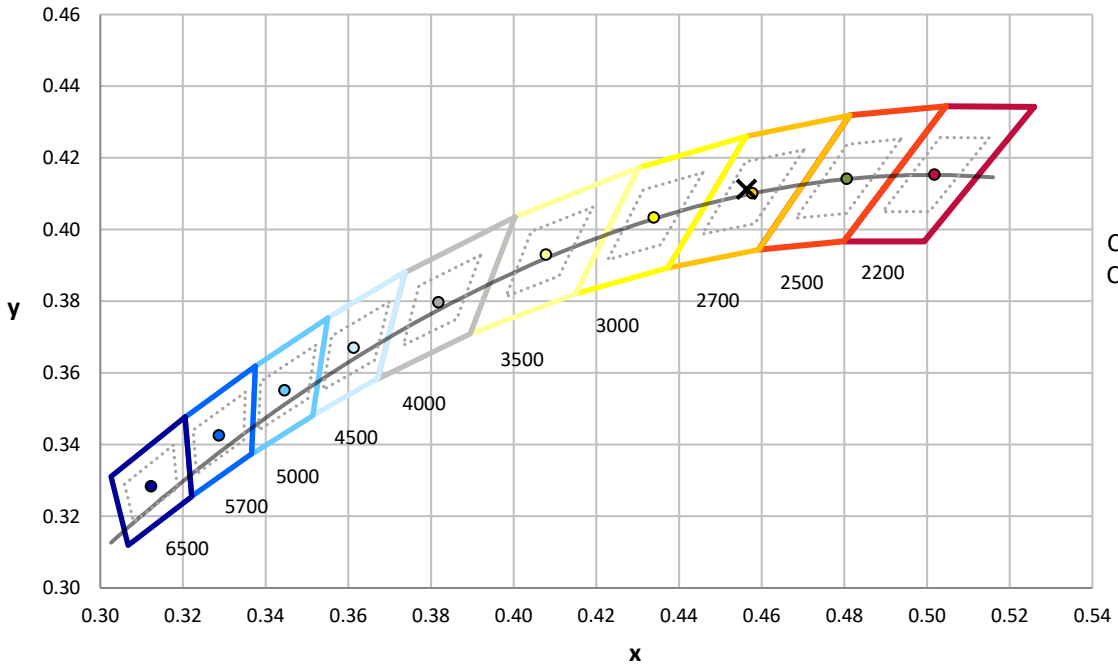
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

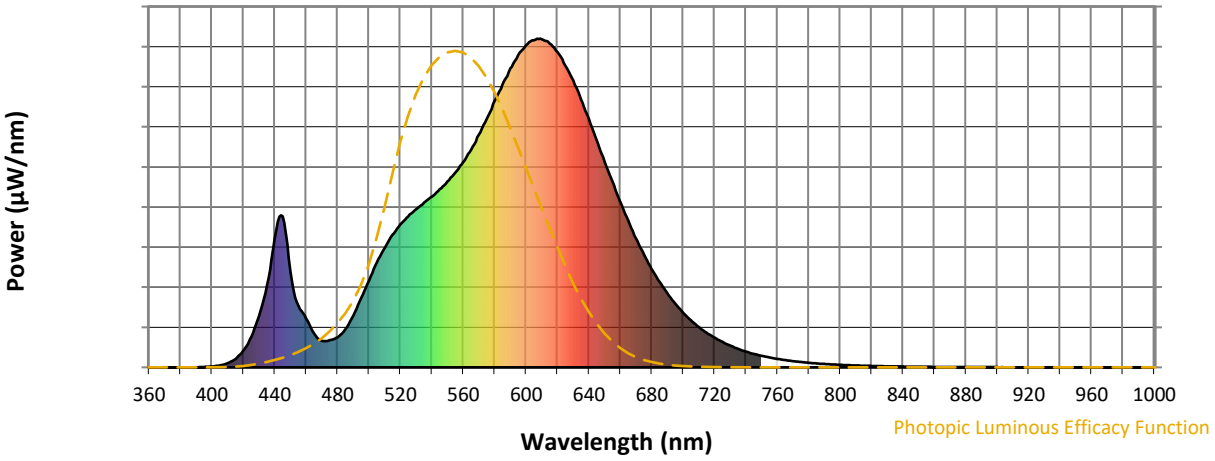


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

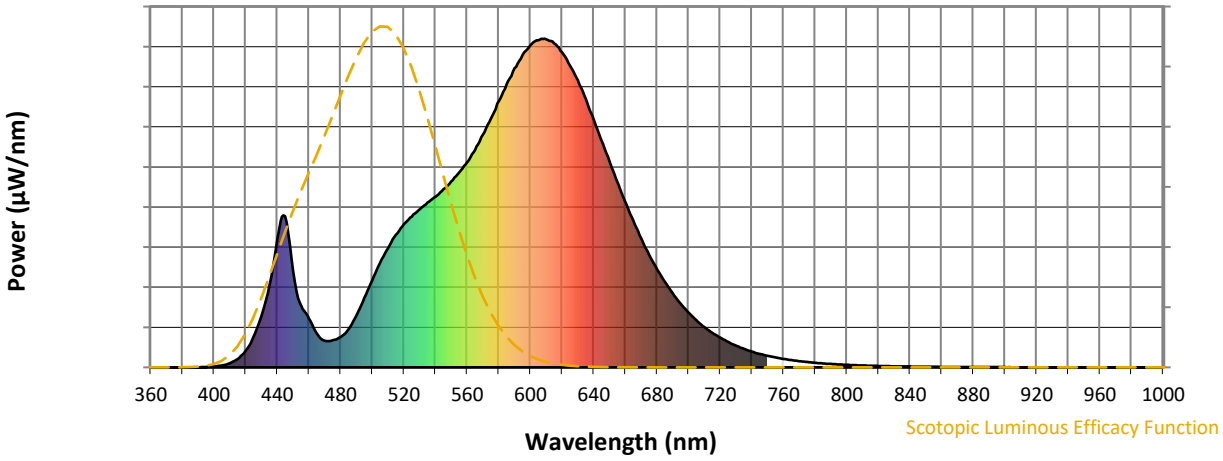


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

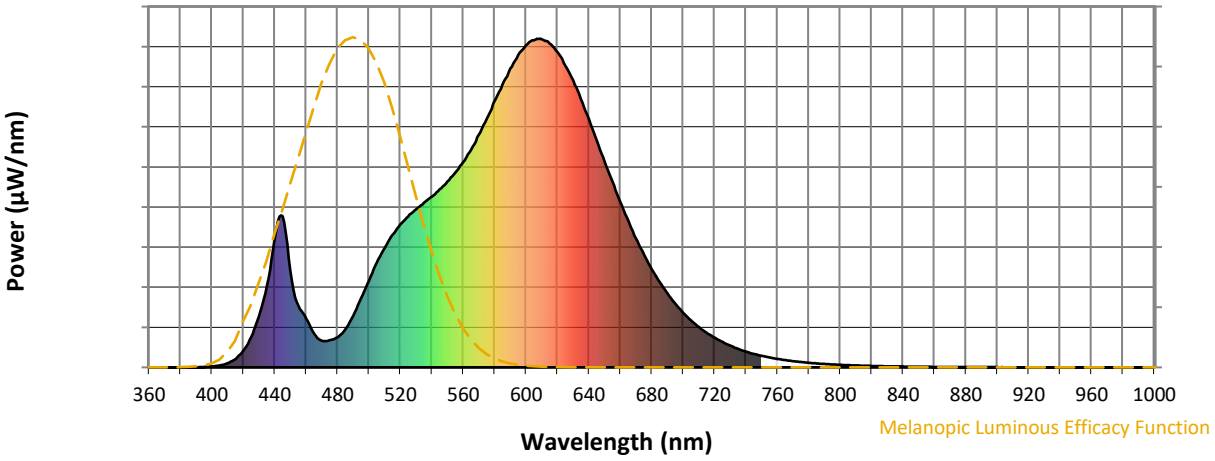


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

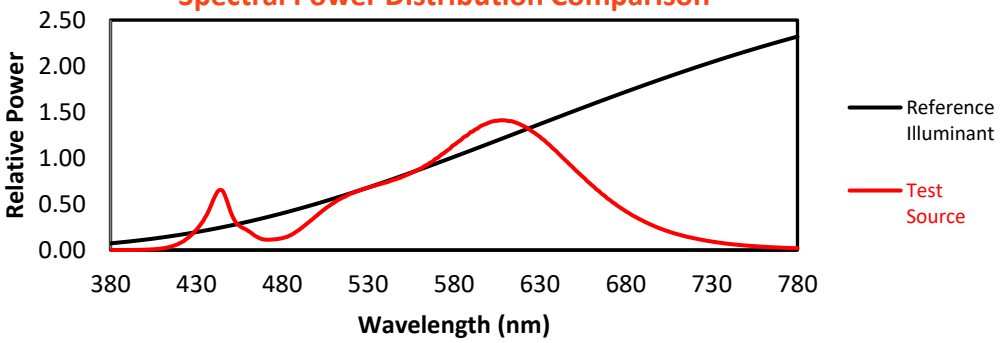
REPORT NUMBER: SP1-2407-184-8

TM-30-18

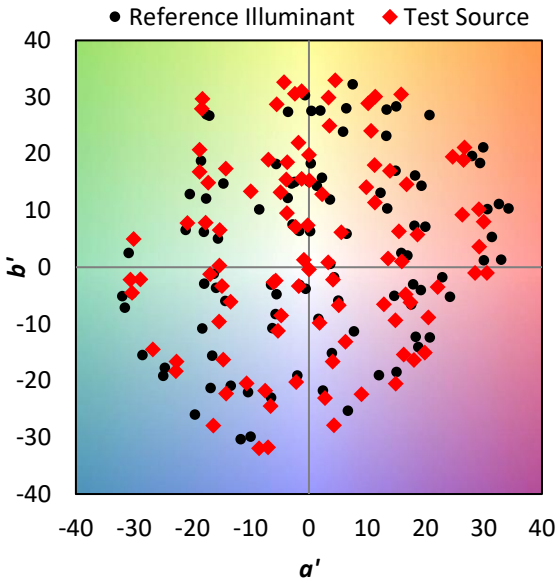
Summary

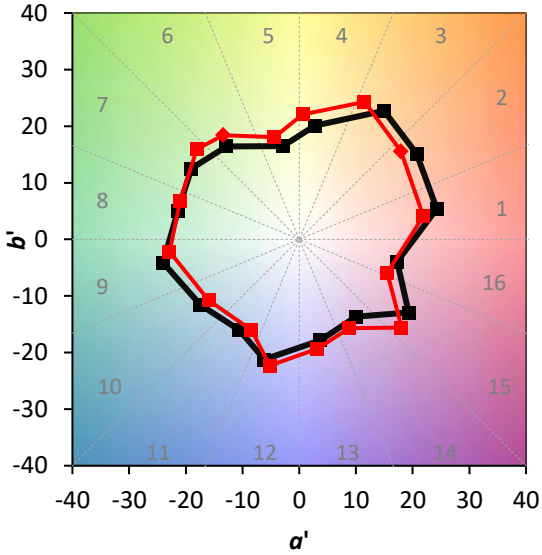
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

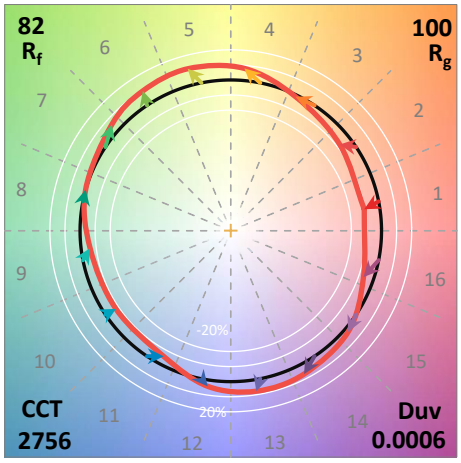
Spectral Power Distribution Comparison

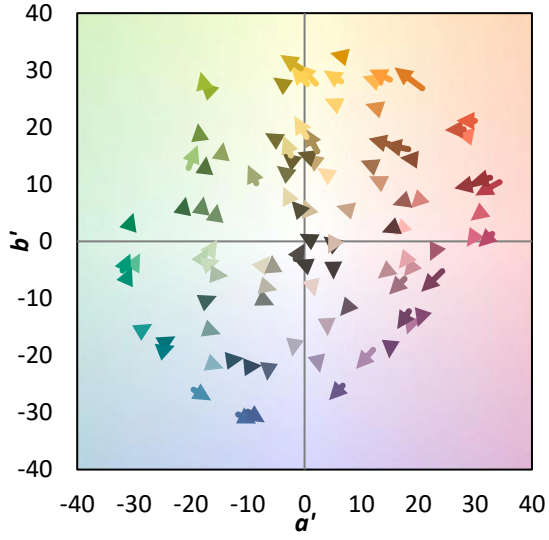


Color Vector Graphics







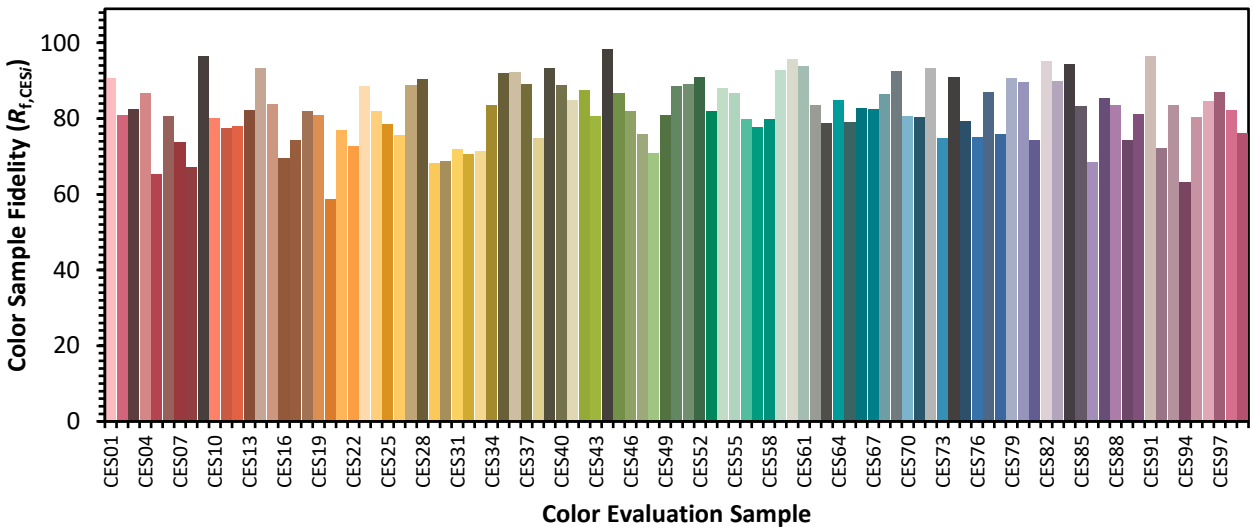


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TM-30-18

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

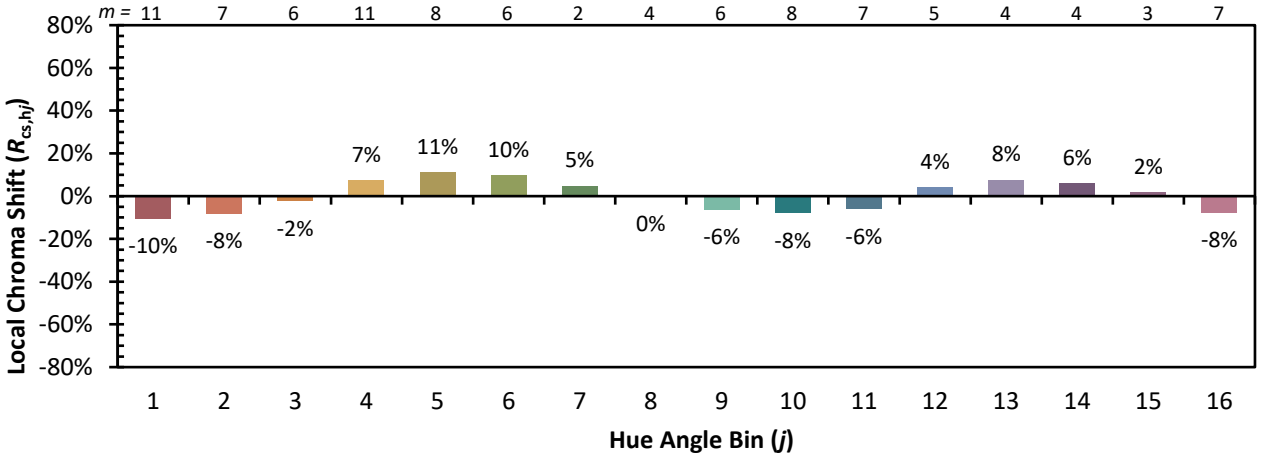
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CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
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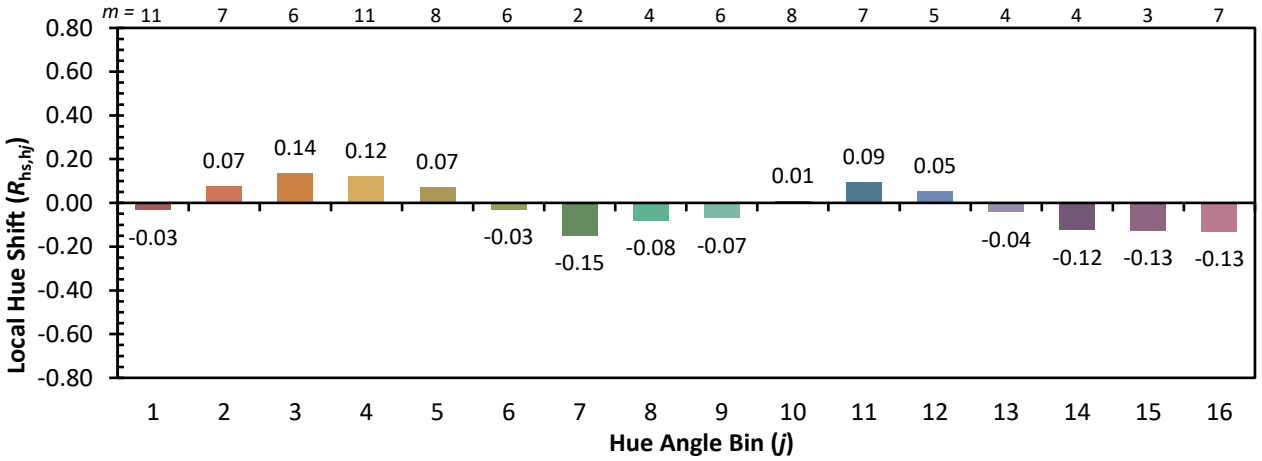


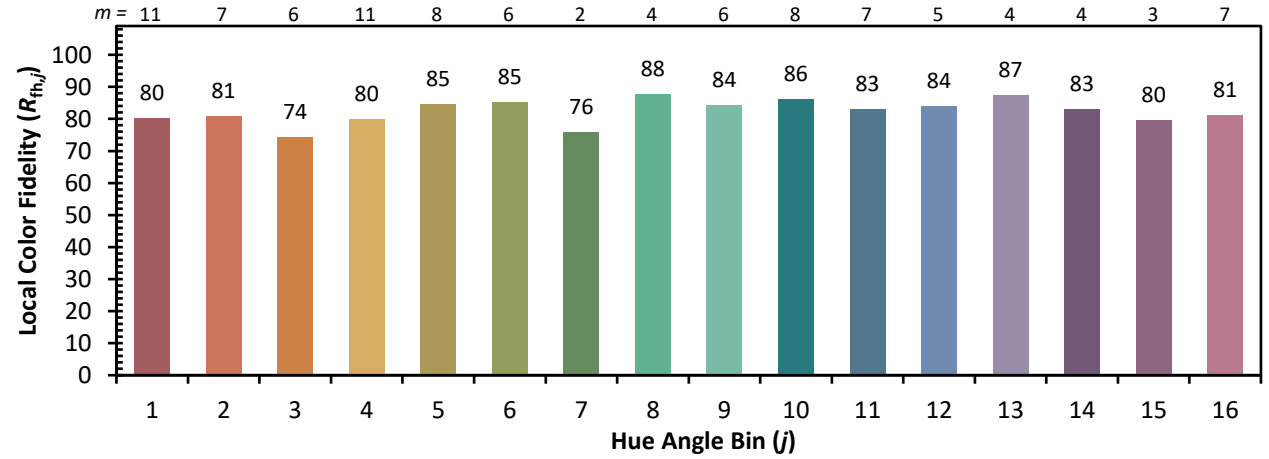
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Color Rendition by Hue-Angle Bin



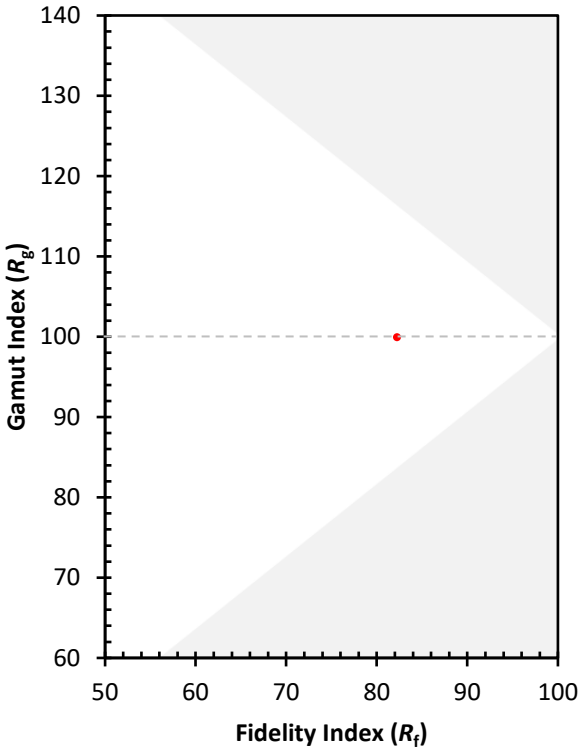


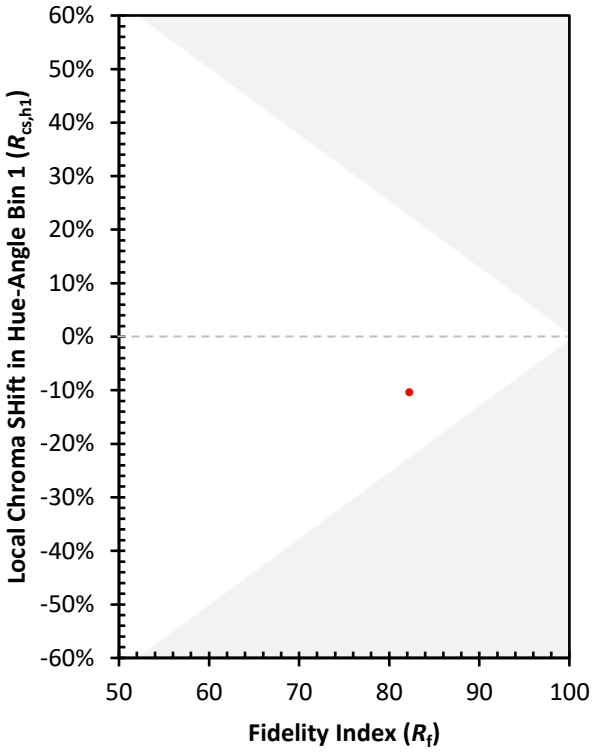


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Measure Comparisons





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