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: P1501593

Luminaire Tested: GSS-SB2A-850-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:	P1501593
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-850-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 58W 80CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 5000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7925.8 lumens
Efficiency:	N/A
Efficacy:	136.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

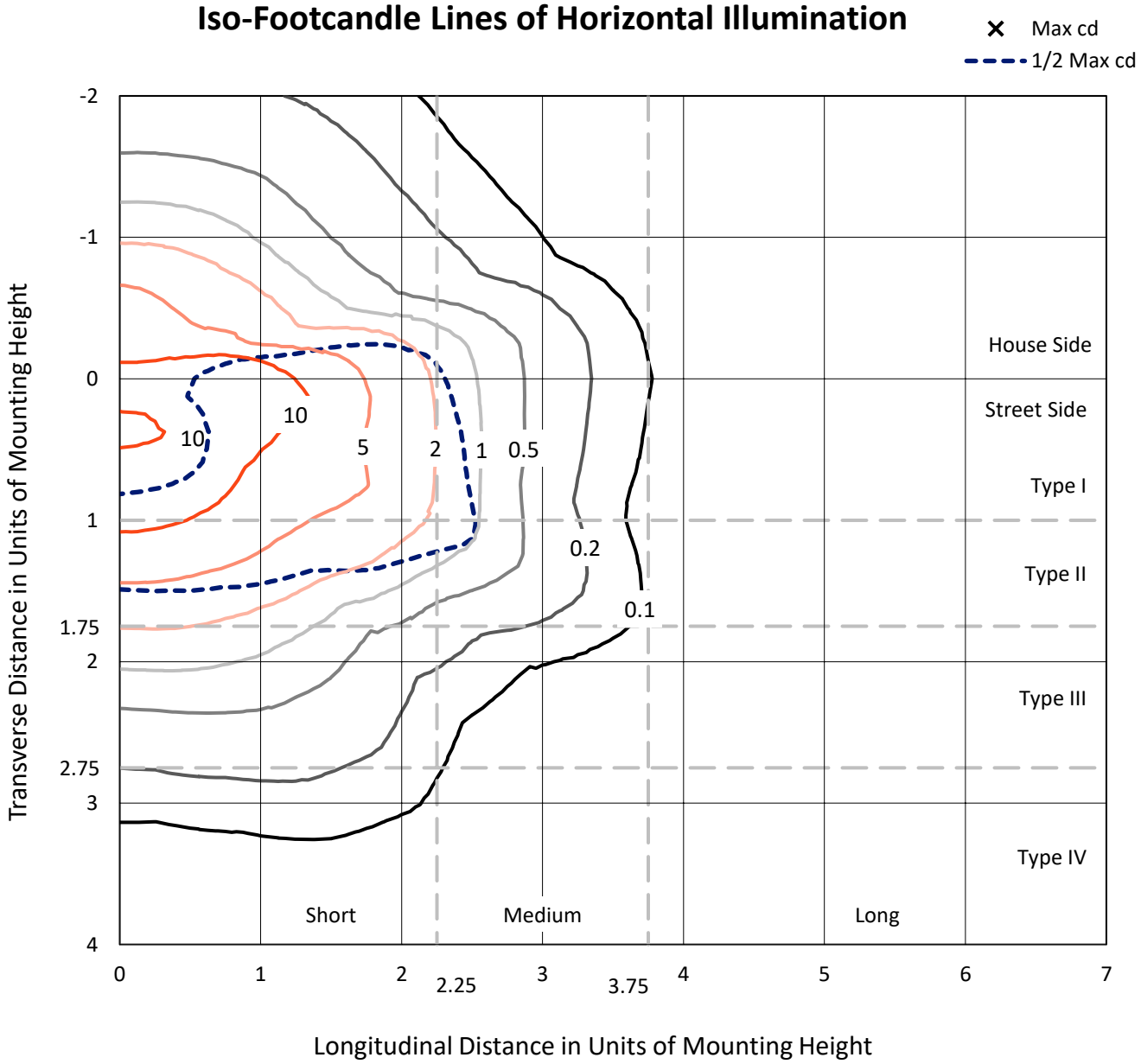
Input Watts (W):	58
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



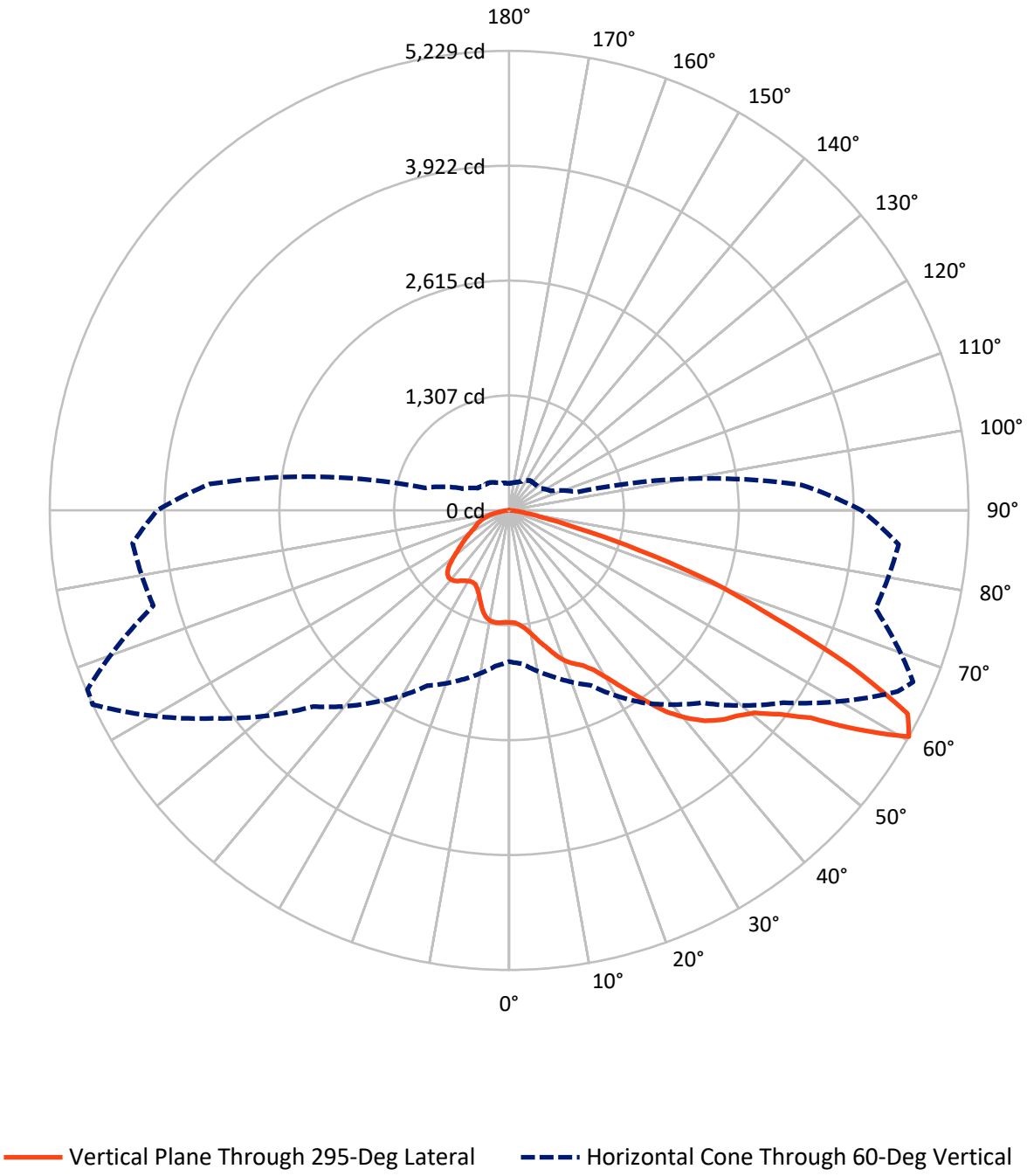
Based on 10 foot mounting height. Maximum calculated value = 19.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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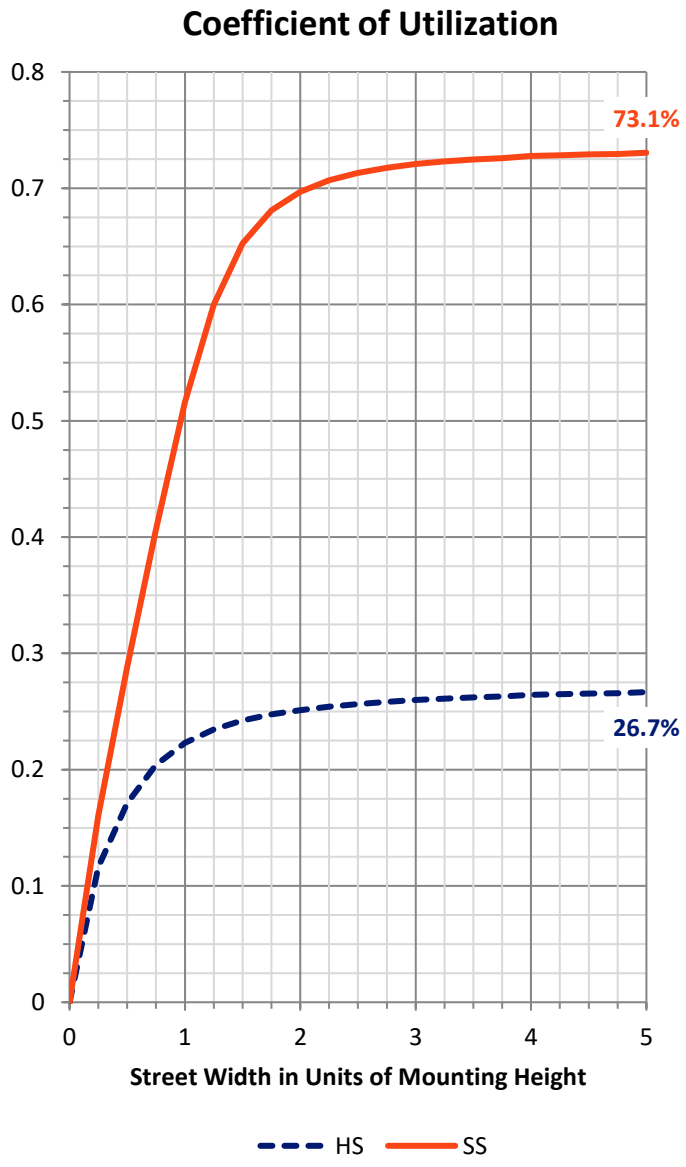
REPORT NUMBER: P1501593
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2131.4	0.0	2131.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5794.5	0.0	5794.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	7925.8	0.0	7925.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.5
10°-20°	344.7	4.3
20°-30°	652.9	8.2
30°-40°	1151.0	14.5
40°-50°	1702.2	21.5
50°-60°	1998.8	25.2
60°-70°	1448.2	18.3
70°-80°	446.6	5.6
80°-90°	61.5	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°	7925.8	100.0
0°-180°	7925.8	100.0



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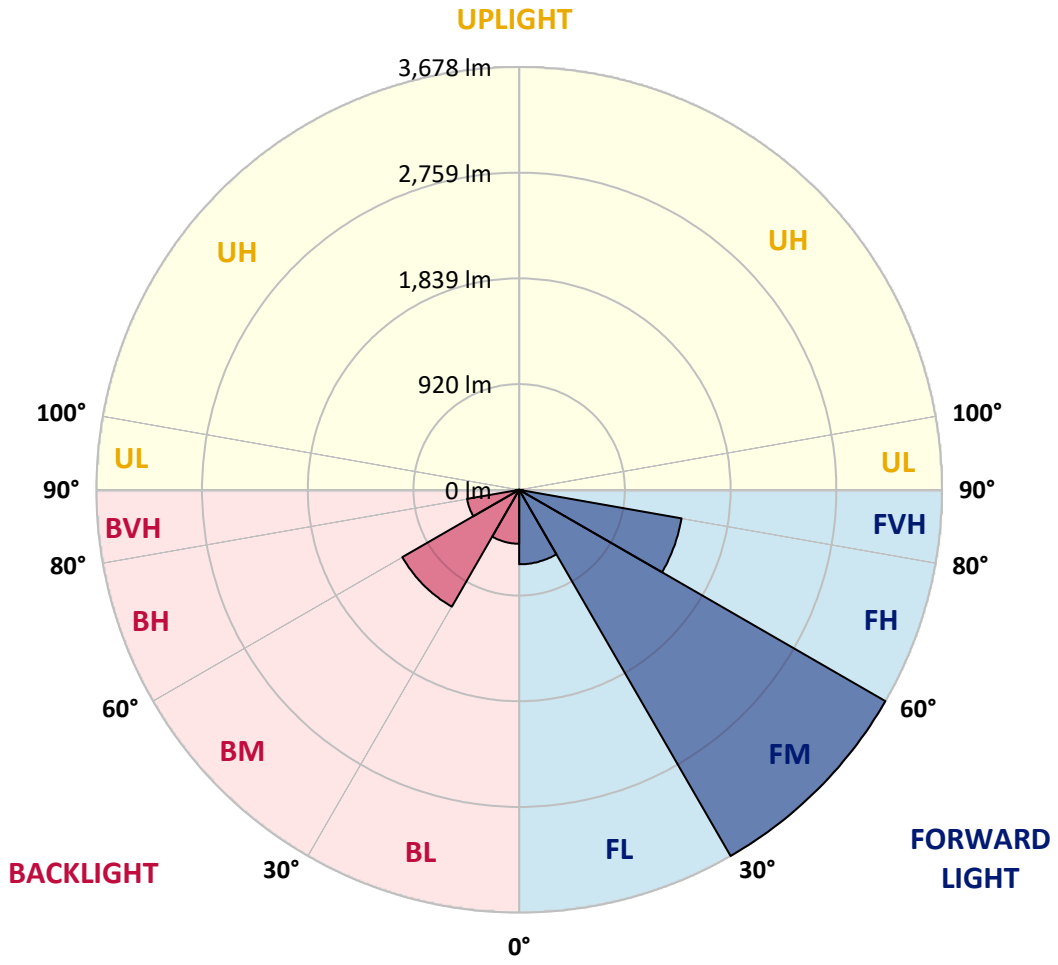
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	648.1	8.2			
FM	(30°-60°)	3678.4	46.4			
FH	(60°-80°)	1434.8	18.1			G1/1800
FVH	(80°-90°)	33.2	0.4			G1/100
BL	(0°-30°)	469.4	5.9	B1/500		
BM	(30°-60°)	1173.6	14.8	B2/2500		
BH	(60°-80°)	460.1	5.8	B1/500		G1/500
BVH	(80°-90°)	28.3	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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1300.5	1304.1	1298.7	1302.3	1302.3	1296.9	1295.1	1287.9	1291.5	1289.7	1287.9
5°	1331.2	1333.0	1329.4	1334.8	1334.8	1336.6	1334.8	1325.8	1325.8	1325.8	1322.2
7.5°	1322.2	1322.2	1324.0	1342.1	1360.1	1383.6	1383.6	1380.0	1383.6	1381.8	1365.5
10°	1246.3	1253.6	1269.8	1315.0	1358.3	1408.9	1443.2	1454.1	1454.1	1455.9	1428.8
12.5°	1110.9	1116.3	1154.2	1222.8	1313.2	1405.3	1488.4	1542.6	1548.0	1557.0	1520.9
15°	989.8	993.5	1020.5	1091.0	1193.9	1356.5	1513.7	1625.6	1643.7	1681.6	1627.5
17.5°	1000.7	998.9	1006.1	1033.2	1107.2	1277.0	1508.2	1723.2	1755.7	1822.5	1775.6
20°	1065.7	1065.7	1071.1	1076.5	1103.6	1219.2	1468.5	1802.7	1865.9	1995.9	1941.7
22.5°	1168.7	1168.7	1166.9	1175.9	1175.9	1244.5	1470.3	1862.3	1956.2	2189.2	2136.8
25°	1311.4	1304.1	1304.1	1307.7	1291.5	1340.3	1515.5	1923.7	2046.5	2418.6	2373.4
27.5°	1472.1	1477.5	1473.9	1461.3	1439.6	1477.5	1623.8	2019.4	2147.7	2660.6	2642.6
30°	1647.3	1649.1	1652.7	1645.5	1627.5	1654.5	1793.6	2163.9	2281.3	2913.5	2953.3
32.5°	1818.9	1844.2	1835.2	1817.1	1824.3	1873.1	2003.2	2359.0	2480.0	3148.3	3289.2
35°	2037.5	2046.5	2082.6	2015.8	2017.6	2100.7	2270.5	2615.5	2732.9	3392.2	3625.2
37.5°	2355.4	2371.6	2355.4	2250.6	2234.4	2350.0	2530.6	2868.4	2953.3	3576.4	3937.7
40°	2667.9	2687.7	2714.8	2592.0	2489.0	2584.8	2776.2	3061.6	3150.1	3677.6	4145.4
42.5°	2926.2	2958.7	2929.8	2893.7	2799.7	2817.8	2947.8	3211.6	3300.1	3805.8	4354.9
45°	3144.7	3150.1	3162.8	3137.5	3090.5	3074.3	3094.1	3343.4	3441.0	3863.6	4457.9
47.5°	3235.0	3258.5	3269.4	3312.7	3361.5	3329.0	3218.8	3404.8	3493.3	3860.0	4490.4
50°	3186.3	3209.7	3267.5	3370.5	3487.9	3545.7	3365.1	3489.7	3589.1	3925.0	4557.2
52.5°	3058.0	3083.3	3177.2	3294.6	3491.5	3623.4	3571.0	3666.7	3762.5	4040.6	4669.2
55°	2747.3	2785.3	2917.1	3112.2	3383.2	3581.8	3787.8	3926.8	4031.6	4179.7	4784.8
57.5°	2295.8	2335.5	2483.6	2776.2	3182.7	3410.2	3851.0	4414.5	4461.5	4345.9	4795.7
60°	*1719.6*	*1752.1*	*1961.6*	*2196.4*	*2673.3*	*3096.0*	*3814.8*	*4876.9*	*4996.2*	*4317.0*	*4450.7*
62.5°	1361.9	1401.7	1587.7	1696.1	2037.5	2557.7	3688.4	5005.2	5108.1	4078.6	3970.2
65°	1063.9	1091.0	1264.4	1419.7	1502.8	1746.7	3161.0	4378.4	4470.5	3690.2	3276.6
67.5°	702.6	744.2	950.1	1163.2	1206.6	1110.9	2174.8	3368.7	3412.1	2933.4	2463.8
70°	504.0	523.8	677.4	904.9	970.0	744.2	1184.9	2550.5	2563.1	1968.8	1660.0
72.5°	343.2	346.8	460.6	693.6	773.1	540.1	652.1	1679.8	1636.5	971.8	950.1
75°	233.0	236.6	294.4	462.4	547.3	375.7	424.5	915.8	879.7	536.5	576.2
77.5°	157.1	160.8	202.3	310.7	364.9	260.1	310.7	484.1	475.0	355.8	308.9
80°	119.2	124.6	149.9	198.7	254.7	151.7	177.0	229.4	233.0	189.7	157.1
82.5°	66.8	74.1	90.3	101.2	164.4	84.9	84.9	137.3	131.9	117.4	84.9
85°	28.9	30.7	36.1	37.9	66.8	36.1	30.7	59.6	61.4	57.8	27.1
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.2	7.2	7.2	7.2
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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1278.8	1289.7	1278.8	1273.4	1273.4	1264.4	1260.8	1260.8	1248.1	1253.6	1249.9
5°	1307.7	1311.4	1298.7	1282.5	1260.8	1242.7	1217.4	1184.9	1165.0	1163.2	1165.0
7.5°	1352.9	1354.7	1320.4	1284.3	1230.1	1165.0	1087.4	1024.2	968.2	959.1	970.0
10°	1416.1	1412.5	1361.9	1277.0	1163.2	1026.0	906.7	848.9	816.4	814.6	812.8
12.5°	1501.0	1477.5	1399.9	1246.3	1047.6	888.7	827.3	823.7	832.7	839.9	841.7
15°	1598.6	1567.8	1430.6	1186.7	930.2	838.1	841.7	872.4	883.3	890.5	890.5
17.5°	1719.6	1679.8	1464.9	1101.8	870.6	848.9	874.2	903.1	921.2	928.4	926.6
20°	1880.3	1797.2	1492.0	1020.5	854.4	867.0	888.7	917.6	935.6	944.7	944.7
22.5°	2041.1	1938.1	1497.4	964.6	854.4	868.8	888.7	917.6	937.5	946.5	944.7
25°	2259.6	2118.8	1499.2	924.8	856.2	859.8	877.8	903.1	932.0	941.1	944.7
27.5°	2492.7	2317.4	1508.2	915.8	848.9	847.1	859.8	883.3	912.2	935.6	937.5
30°	2781.7	2541.4	1511.9	924.8	850.8	827.3	836.3	859.8	890.5	914.0	921.2
32.5°	3065.2	2749.1	1504.6	944.7	854.4	814.6	816.4	830.9	863.4	879.7	892.3
35°	3365.1	2969.5	1492.0	971.8	856.2	809.2	793.0	800.2	821.9	823.7	829.1
37.5°	3599.9	3133.9	1454.1	1007.9	859.8	789.3	756.8	751.4	742.4	724.3	727.9
40°	3793.2	3244.1	1390.8	1026.0	850.8	765.9	711.7	686.4	652.1	625.0	630.4
42.5°	3932.3	3318.1	1315.0	1029.6	836.3	726.1	659.3	615.9	578.0	549.1	550.9
45°	3993.7	3310.9	1233.7	1002.5	802.0	677.4	610.5	569.0	527.4	496.7	493.1
47.5°	3995.5	3240.5	1121.7	937.5	744.2	621.4	565.4	520.2	485.9	464.2	462.4
50°	4009.9	3200.7	1016.9	843.5	668.3	561.8	525.6	480.5	460.6	429.9	420.9
52.5°	4100.2	3265.7	944.7	740.6	597.9	518.4	491.3	451.6	419.1	399.2	397.4
55°	4246.5	3377.7	904.9	662.9	531.0	476.9	458.8	424.5	395.6	375.7	370.3
57.5°	4264.6	3435.5	858.0	590.7	476.9	444.3	437.1	399.2	357.6	343.2	337.8
60°	*4011.7*	*3338.0*	*800.2*	*523.8*	*437.1*	*419.1*	*415.4*	*364.9*	*330.5*	*312.5*	*305.3*
62.5°	3666.7	3094.1	711.7	462.4	406.4	393.8	379.3	339.6	296.2	276.4	270.9
65°	2996.6	2601.0	605.1	420.9	375.7	361.3	357.6	303.5	274.6	263.7	261.9
67.5°	2270.5	2089.9	532.9	390.2	343.2	337.8	325.1	307.1	294.4	281.8	278.2
70°	1605.8	1508.2	453.4	350.4	310.7	301.6	354.0	334.2	289.0	272.7	270.9
72.5°	973.6	946.5	392.0	314.3	267.3	281.8	326.9	301.6	260.1	240.2	233.0
75°	614.1	561.8	328.7	267.3	213.1	229.4	285.4	269.1	224.0	204.1	198.7
77.5°	334.2	310.7	247.5	218.6	168.0	186.0	249.3	222.2	178.8	195.1	173.4
80°	146.3	162.6	164.4	126.4	112.0	137.3	178.8	173.4	137.3	139.1	115.6
82.5°	70.4	92.1	106.6	86.7	63.2	81.3	119.2	99.3	92.1	86.7	83.1
85°	21.7	34.3	47.0	41.5	28.9	34.3	56.0	54.2	65.0	56.0	52.4
87.5°	7.2	7.2	5.4	5.4	5.4	7.2	9.0	5.4	1.8	1.8	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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1248.1	1249.9	1249.9	1251.7	1251.7	1257.2	1264.4	1271.6	1266.2	1273.4	1275.2
5°	1161.4	1170.5	1177.7	1204.8	1226.5	1244.5	1264.4	1282.5	1287.9	1291.5	1300.5
7.5°	957.3	982.6	1029.6	1091.0	1159.6	1226.5	1271.6	1318.6	1325.8	1334.8	1347.5
10°	814.6	825.5	858.0	921.2	1044.0	1175.9	1286.1	1360.1	1390.8	1408.9	1421.5
12.5°	838.1	830.9	825.5	834.5	914.0	1083.8	1277.0	1419.7	1477.5	1497.4	1513.7
15°	894.1	886.9	867.0	841.7	850.8	986.2	1246.3	1475.7	1567.8	1600.4	1634.7
17.5°	926.6	919.4	903.1	876.0	852.6	904.9	1188.5	1526.3	1710.5	1750.3	1799.0
20°	944.7	937.5	921.2	894.1	867.0	874.2	1114.5	1589.5	1873.1	1936.3	2008.6
22.5°	948.3	939.3	921.2	894.1	877.8	872.4	1044.0	1627.5	2048.3	2145.9	2228.9
25°	946.5	930.2	906.7	886.9	877.8	876.0	995.3	1649.1	2238.0	2393.3	2487.2
27.5°	933.8	914.0	890.5	876.0	872.4	883.3	973.6	1674.4	2460.1	2658.8	2808.8
30°	919.4	890.5	861.6	856.2	865.2	899.5	991.6	1683.4	2693.2	2947.8	3101.4
32.5°	881.5	859.8	830.9	829.1	850.8	912.2	1033.2	1670.8	2899.1	3236.8	3430.1
35°	827.3	814.6	798.4	803.8	838.1	923.0	1062.1	1631.1	3086.9	3506.0	3731.8
37.5°	731.5	740.6	749.6	762.2	805.6	921.2	1074.7	1567.8	3242.3	3720.9	4009.9
40°	625.0	655.7	684.6	717.1	774.9	906.7	1078.3	1490.2	3332.6	3883.5	4257.4
42.5°	558.1	587.0	623.2	670.1	733.3	874.2	1074.7	1403.5	3361.5	3995.5	4414.5
45°	496.7	531.0	576.2	625.0	697.2	827.3	1042.2	1309.5	3375.9	4047.9	4481.4
47.5°	464.2	484.1	525.6	574.4	650.3	769.5	979.0	1240.9	3354.3	4058.7	4562.6
50°	426.3	453.4	480.5	527.4	601.5	697.2	903.1	1201.2	3390.4	4165.3	4690.9
52.5°	397.4	411.8	440.7	484.1	538.3	630.4	830.9	1168.7	3489.7	4273.6	4824.6
55°	375.7	392.0	410.0	446.1	487.7	563.6	756.8	1119.9	3605.3	4389.2	4958.2
57.5°	341.4	352.2	377.5	415.4	442.5	498.5	670.1	1062.1	3596.3	4298.9	4727.0
60°	*310.7*	*321.5*	*348.6*	*386.5*	*402.8*	*440.7*	*585.2*	*988.0*	*3422.9*	*4004.5*	*4300.7*
62.5°	276.4	289.0	321.5	348.6	363.1	392.0	496.7	852.6	3061.6	3562.0	3802.2
65°	261.9	269.1	290.8	323.3	321.5	348.6	419.1	670.1	2463.8	2722.1	2940.6
67.5°	278.2	289.0	285.4	294.4	289.0	303.5	375.7	538.3	1936.3	2050.1	2176.6
70°	274.6	299.8	312.5	294.4	252.9	269.1	325.1	429.9	1385.4	1374.6	1369.2
72.5°	240.2	265.5	301.6	319.7	247.5	224.0	281.8	372.1	888.7	885.1	800.2
75°	204.1	222.2	265.5	289.0	213.1	180.6	242.0	316.1	531.0	538.3	480.5
77.5°	187.9	178.8	222.2	254.7	173.4	139.1	195.1	238.4	292.6	296.2	274.6
80°	135.5	130.1	166.2	186.0	131.9	99.3	110.2	148.1	157.1	140.9	146.3
82.5°	86.7	88.5	99.3	119.2	81.3	54.2	75.9	99.3	84.9	68.6	81.3
85°	56.0	63.2	52.4	61.4	25.3	25.3	32.5	43.4	28.9	19.9	21.7
87.5°	0.0	0.0	3.6	7.2	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: P1501593
CATALOG NUMBER: GSS-SB2A-850-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1275.2	1275.2	*1275.2*	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1280.6	1278.8	*1278.8*	1282.5	1291.5	1295.1	1300.5	1298.7	1304.1	1300.5
5°	1305.9	1307.7	*1313.2*	1315.0	1320.4	1327.6	1329.4	1327.6	1331.2	1331.2
7.5°	1356.5	1363.7	*1360.1*	1369.2	1361.9	1352.9	1338.4	1327.6	1318.6	1322.2
10°	1441.4	1437.8	*1436.0*	1419.7	1387.2	1340.3	1302.3	1260.8	1253.6	1246.3
12.5°	1535.3	1531.7	*1531.7*	1475.7	1383.6	1286.1	1199.4	1134.3	1112.7	1110.9
15°	1667.2	1643.7	*1622.0*	1504.6	1320.4	1154.2	1053.1	1002.5	989.8	989.8
17.5°	1831.6	1770.1	*1734.0*	1483.0	1217.4	1067.5	1007.9	995.3	991.6	1000.7
20°	2035.7	1880.3	*1827.9*	1434.2	1179.5	1078.3	1049.4	1051.3	1053.1	1065.7
22.5°	2259.6	1981.5	*1894.8*	1434.2	1217.4	1147.0	1132.5	1152.4	1157.8	1168.7
25°	2508.9	2071.8	*1954.4*	1510.0	1329.4	1277.0	1259.0	1278.8	1293.3	1311.4
27.5°	2788.9	2165.7	*2057.3*	1647.3	1473.9	1441.4	1421.5	1430.6	1450.4	1472.1
30°	3040.0	2322.9	*2214.5*	1856.8	1670.8	1631.1	1596.7	1611.2	1632.9	1647.3
32.5°	3262.1	2514.3	*2422.2*	2077.2	1896.6	1827.9	1790.0	1786.4	1829.8	1818.9
35°	3466.2	2740.1	*2651.6*	2328.3	2126.0	2041.1	1990.5	2055.5	2026.6	2037.5
37.5°	3627.0	2974.9	*2904.5*	2568.5	2364.4	2248.8	2218.1	2297.6	2342.7	2355.4
40°	3758.9	3179.0	*3105.0*	2806.9	2583.0	2498.1	2546.8	2678.7	2673.3	2667.9
42.5°	3860.0	3354.3	*3273.0*	2987.6	2792.5	2808.8	2846.7	2935.2	2956.9	2926.2
45°	3905.2	3464.4	*3399.4*	3130.3	3030.9	3124.9	3141.1	3179.0	3164.6	3144.7
47.5°	3957.5	3562.0	*3493.3*	3260.3	3289.2	3381.3	3348.8	3318.1	3265.7	3235.0
50°	4046.1	3677.6	*3619.8*	3450.0	3554.7	3524.0	3397.6	3329.0	3222.4	3186.3
52.5°	4214.0	3896.1	*3852.8*	3749.8	3679.4	3502.4	3348.8	3226.0	3106.8	3058.0
55°	4364.0	4192.4	*4167.1*	4029.8	3641.4	3388.6	3182.7	2993.0	2788.9	2747.3
57.5°	4450.7	4683.7	*4712.6*	4149.0	3468.0	3130.3	2826.8	2523.4	2330.1	2295.8
60°	*4192.4*	*5214.7*	*5229.2*	*4125.5*	*3155.6*	*2664.3*	*2201.8*	*1986.9*	*1779.2*	*1719.6*
62.5°	3836.5	5104.5	*5091.9*	3984.6	2512.5	1943.6	1672.6	1571.5	1410.7	1361.9
65°	3298.3	4252.0	*4266.4*	3442.8	1670.8	1405.3	1405.3	1277.0	1098.2	1063.9
67.5°	2687.7	3278.4	*3245.9*	2232.6	1026.0	1125.3	1179.5	995.3	744.2	702.6
70°	1746.7	2503.5	*2458.3*	1287.9	644.8	937.5	928.4	747.8	532.9	504.0
72.5°	751.4	1446.8	*1538.9*	657.5	485.9	755.0	740.6	523.8	355.8	343.2
75°	453.4	727.9	*793.0*	419.1	354.0	569.0	513.0	332.4	242.0	233.0
77.5°	287.2	399.2	*395.6*	314.3	265.5	384.7	345.0	229.4	164.4	157.1
80°	166.2	196.9	*204.1*	196.9	178.8	274.6	220.4	166.2	128.2	119.2
82.5°	106.6	122.8	*124.6*	95.7	99.3	177.0	119.2	97.5	74.1	66.8
85°	47.0	52.4	*50.6*	32.5	32.5	72.3	41.5	39.7	28.9	28.9
87.5°	1.8	3.6	*1.8*	1.8	1.8	7.2	3.6	5.4	5.4	5.4
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

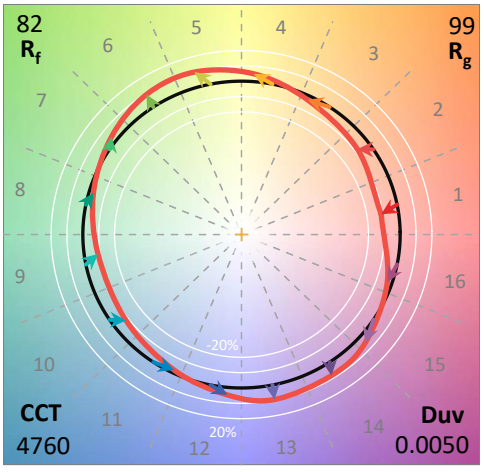
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-12
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-850-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4760
CIE u':	0.2107
CIE v':	0.4939
Duv:	0.0050
CIE x:	0.3537
CIE y:	0.3685
CIE z:	0.2779
Peak Wavelength (nm):	443
Dominant Wavelength (nm):	571
Purity:	16.69598
Rf:	82
Rg:	99.4

CRI (Ra):	81.1
R1:	79.8
R2:	83.5
R3:	87.9
R4:	83.1
R5:	80.5
R6:	79.1
R7:	86.1
R8:	69.0
R9:	8.7
R10:	62.4
R11:	83.8
R12:	63.0
R13:	79.9
R14:	93.3
R15:	72.7



Test Conditions

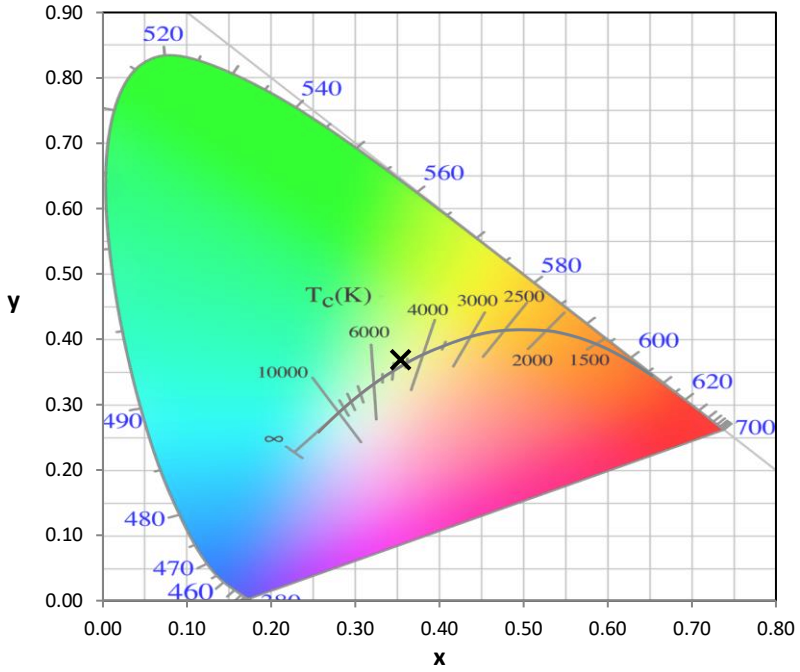
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-12

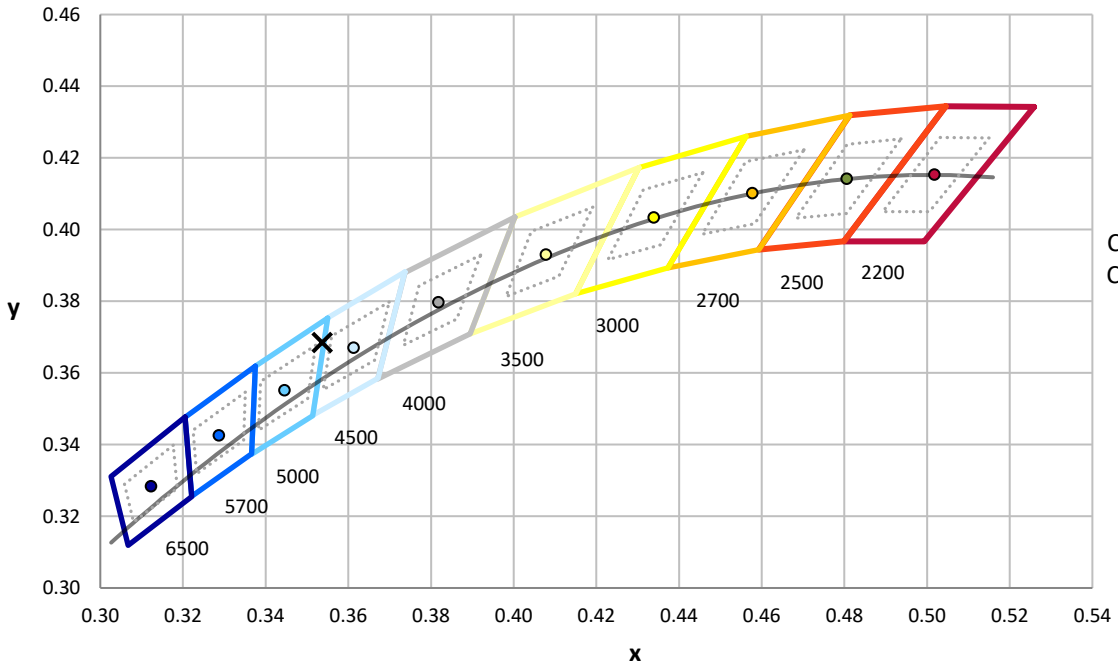
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



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

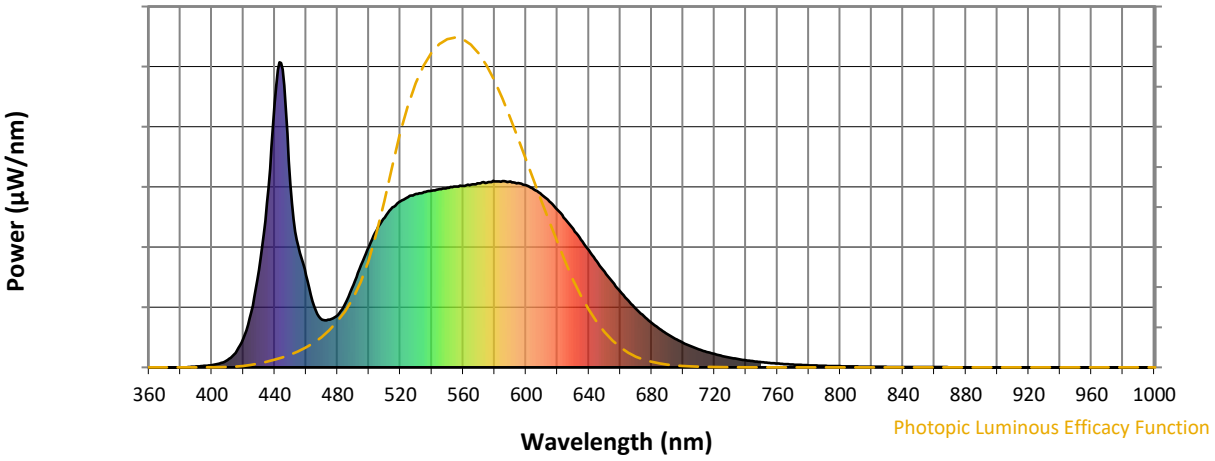


CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

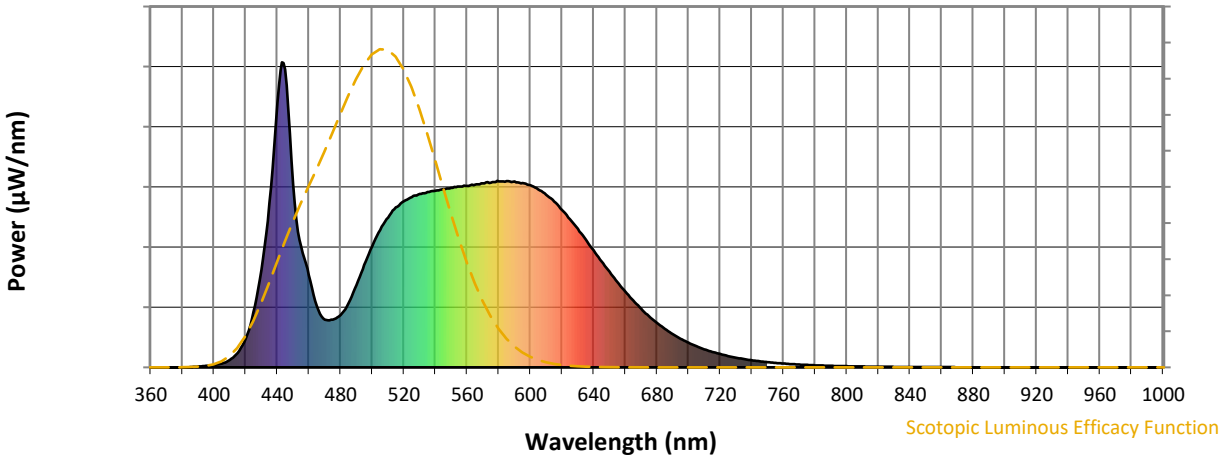


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength

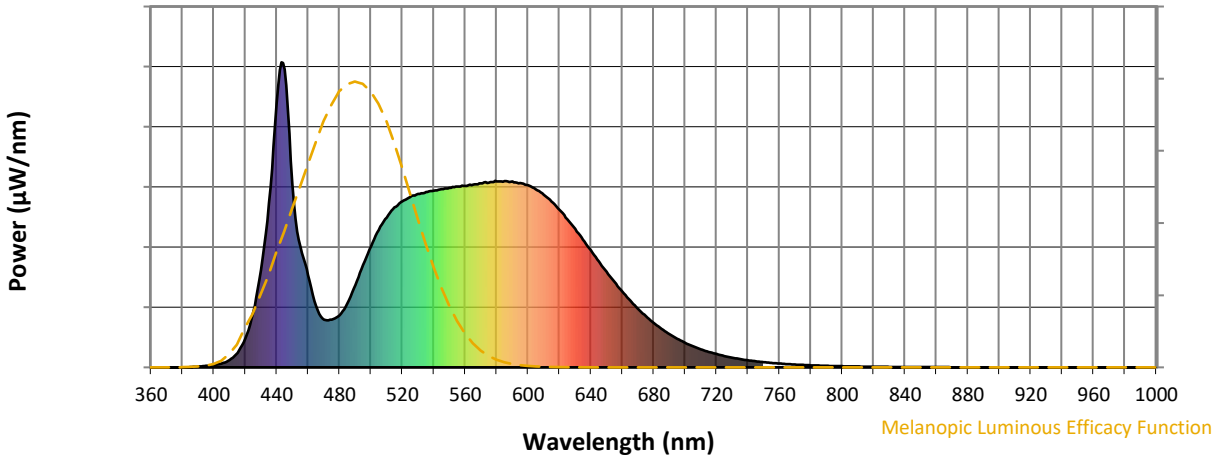


Scotopic Lumens: NR **S/P: 1.83**

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.74**

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

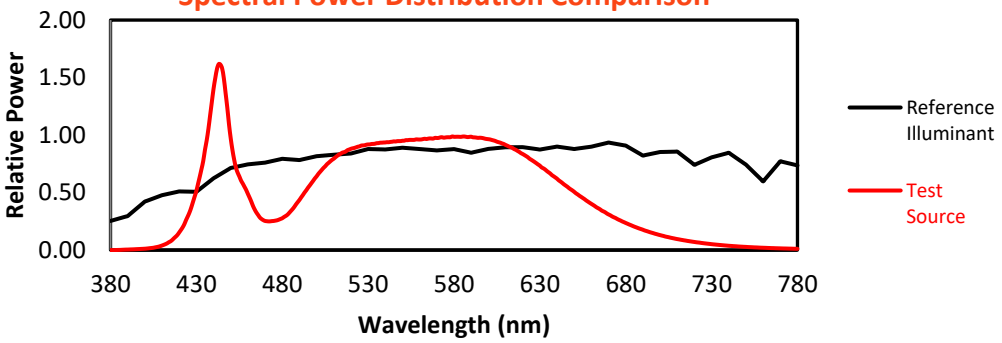
REPORT NUMBER: SP1-2407-184-12

TM-30-18

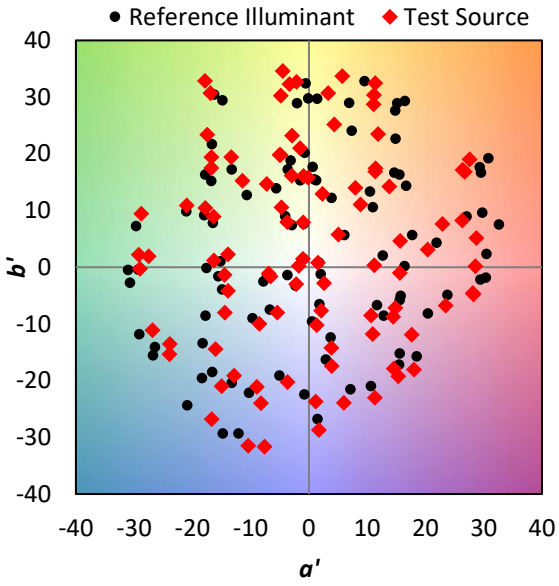
Summary

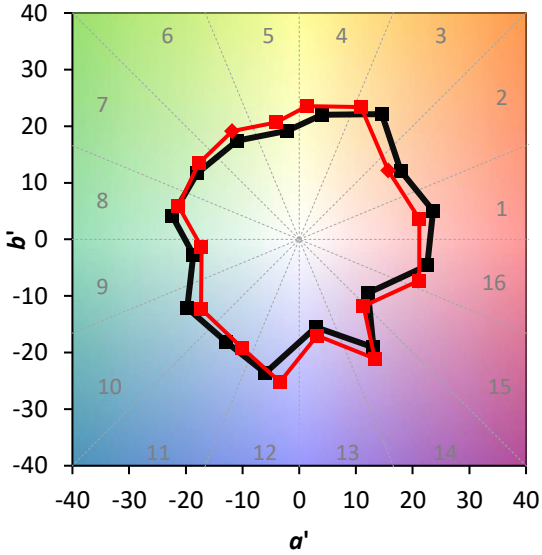
R_f = 82
R_g = 99.4
CIE R_a = 81.1
R_9 = 8.7

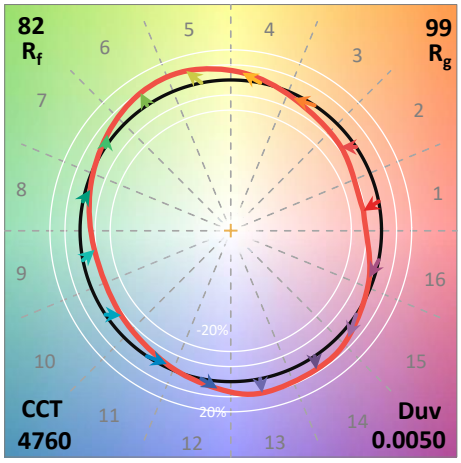
Spectral Power Distribution Comparison

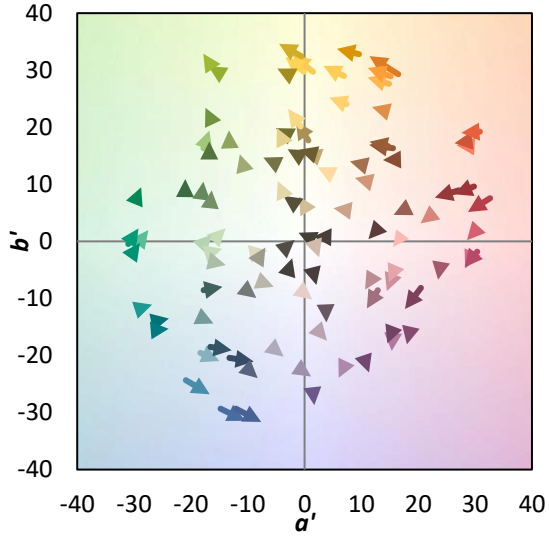


Color Vector Graphics







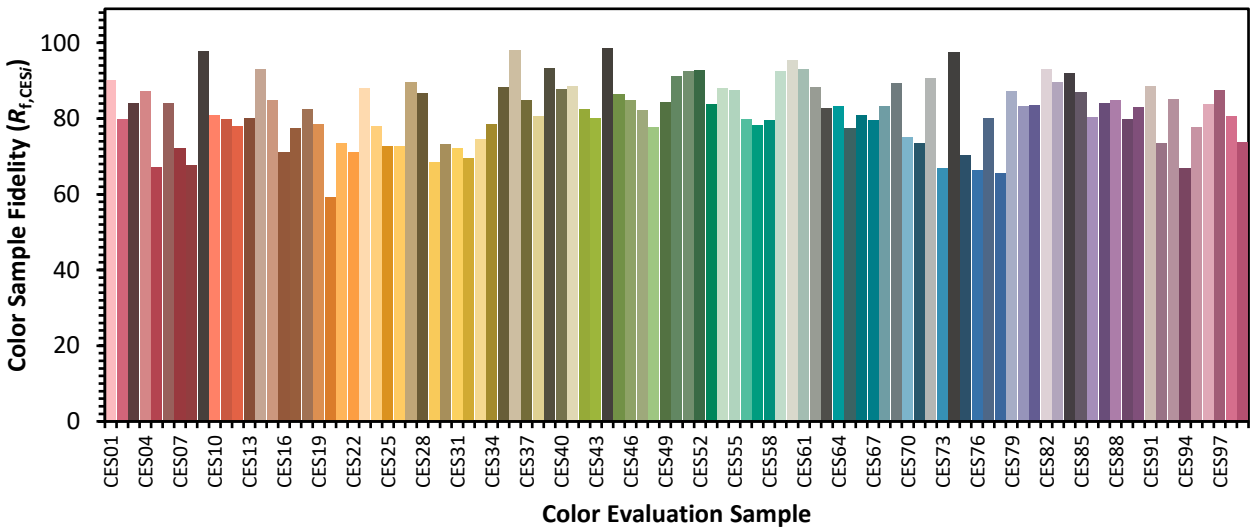


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TM-30-18

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

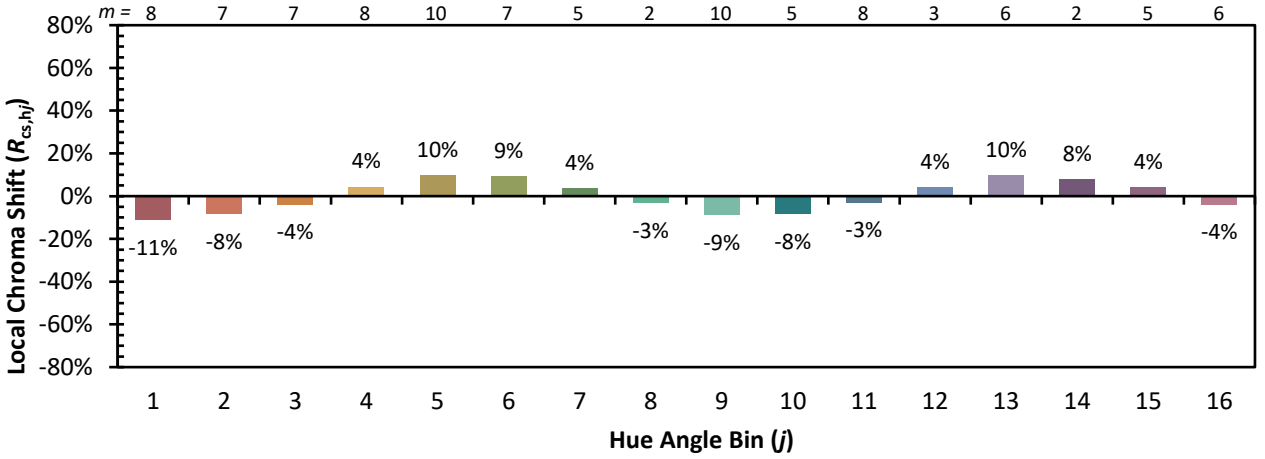
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CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
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CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
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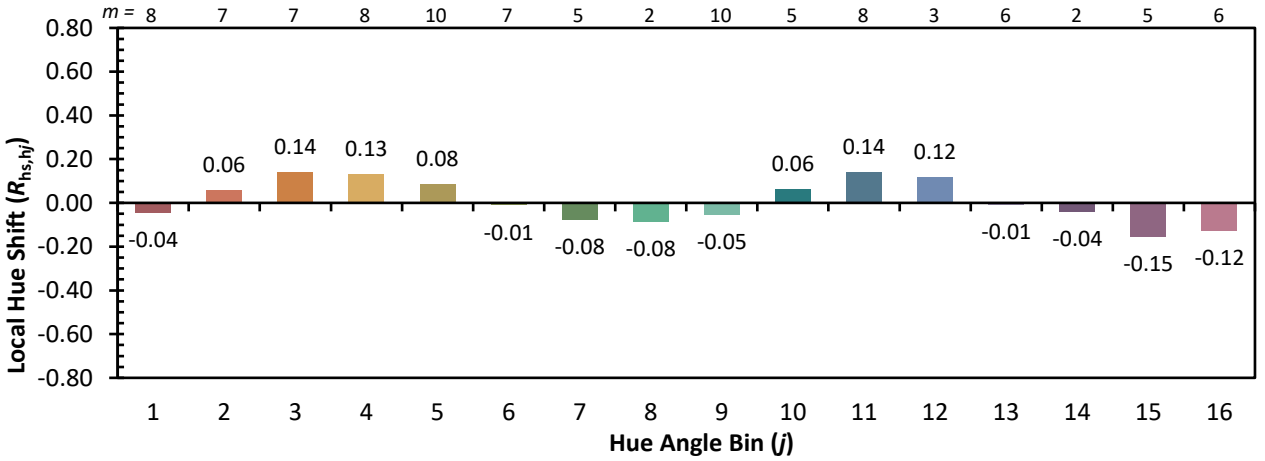


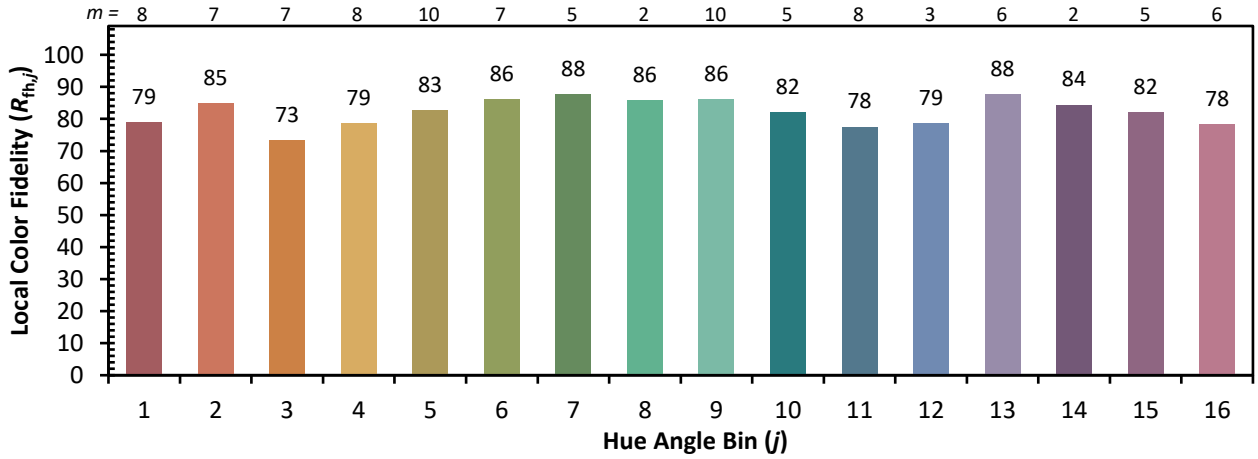
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Color Rendition by Hue-Angle Bin



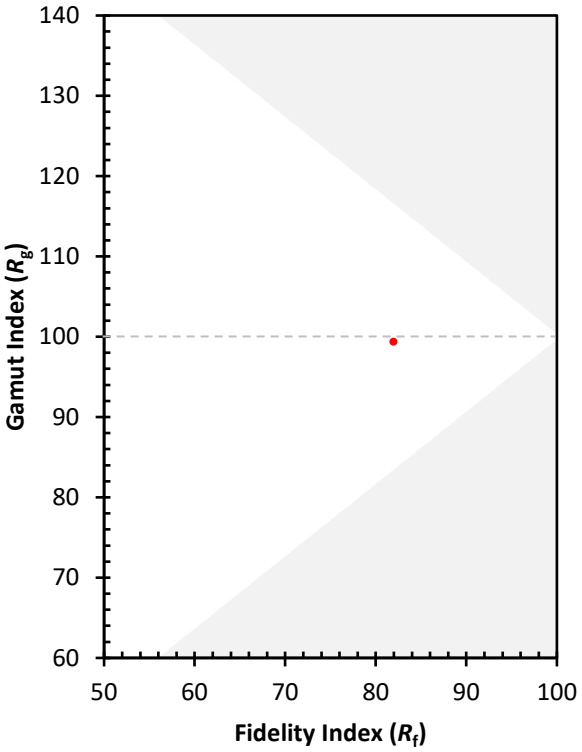


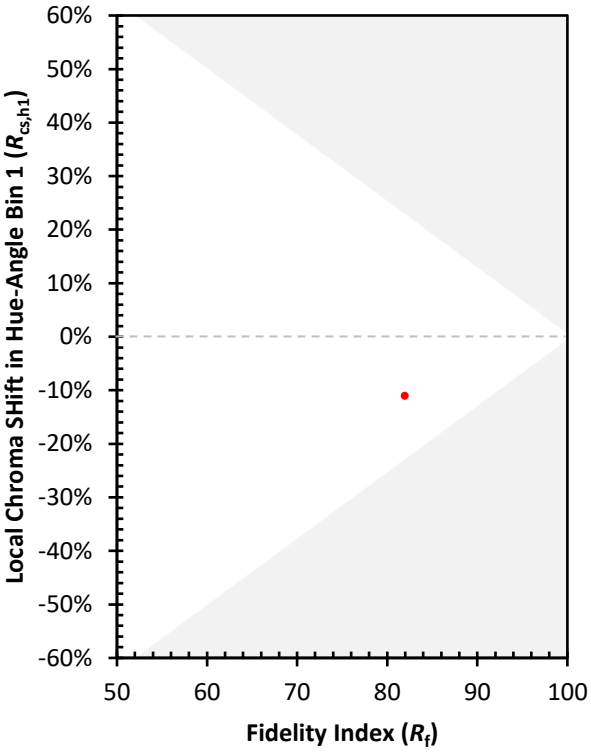


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Measure Comparisons





(END OF REPORT)