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: P1501521

Luminaire Tested: GSS-SB2A-830-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:	P1501521
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 58W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7443.6 lumens
Efficiency:	N/A
Efficacy:	128.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

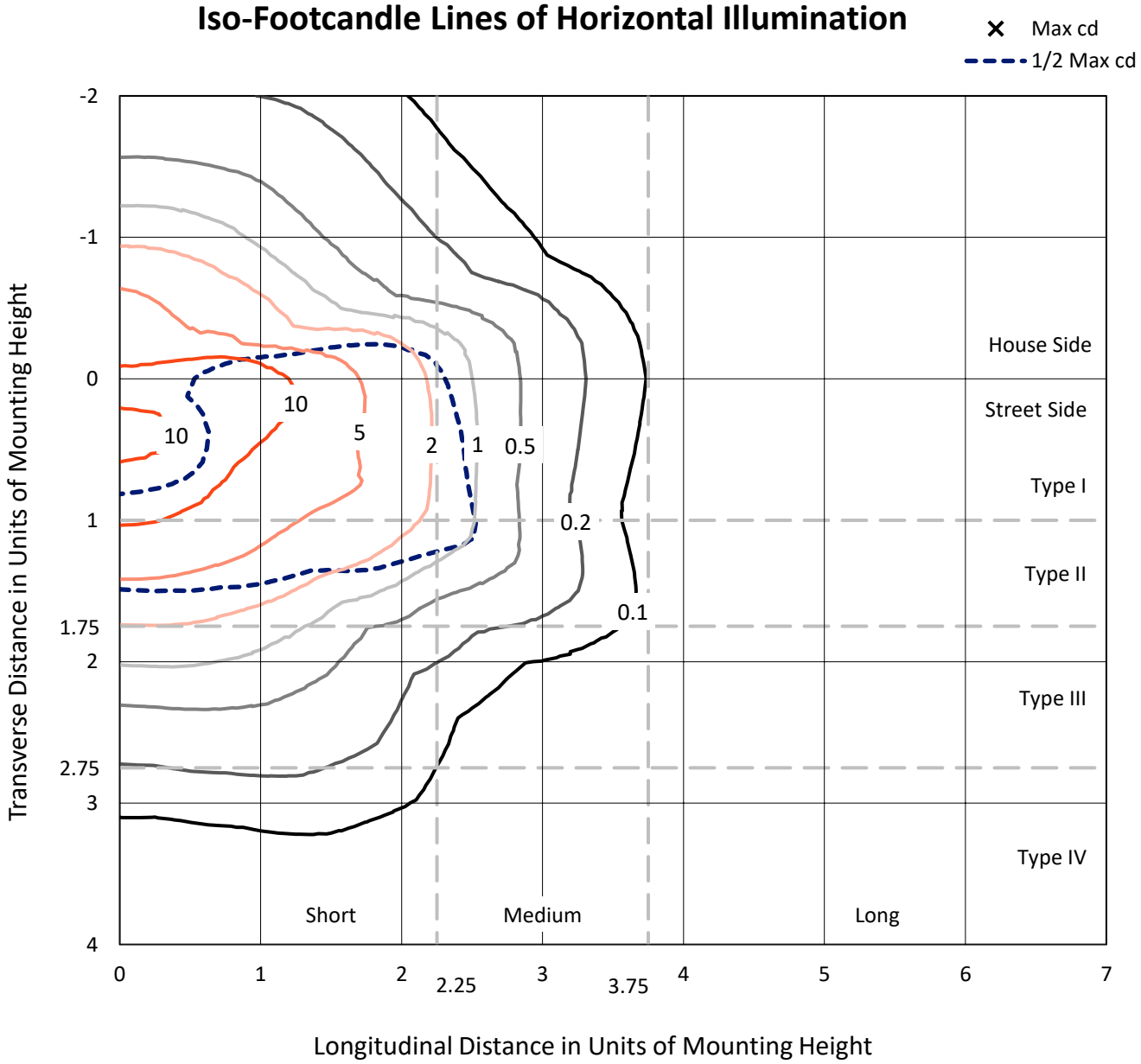
Input Watts (W):	58
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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REPORT NUMBER: P1501521
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Iso-Footcandle Lines of Horizontal Illumination



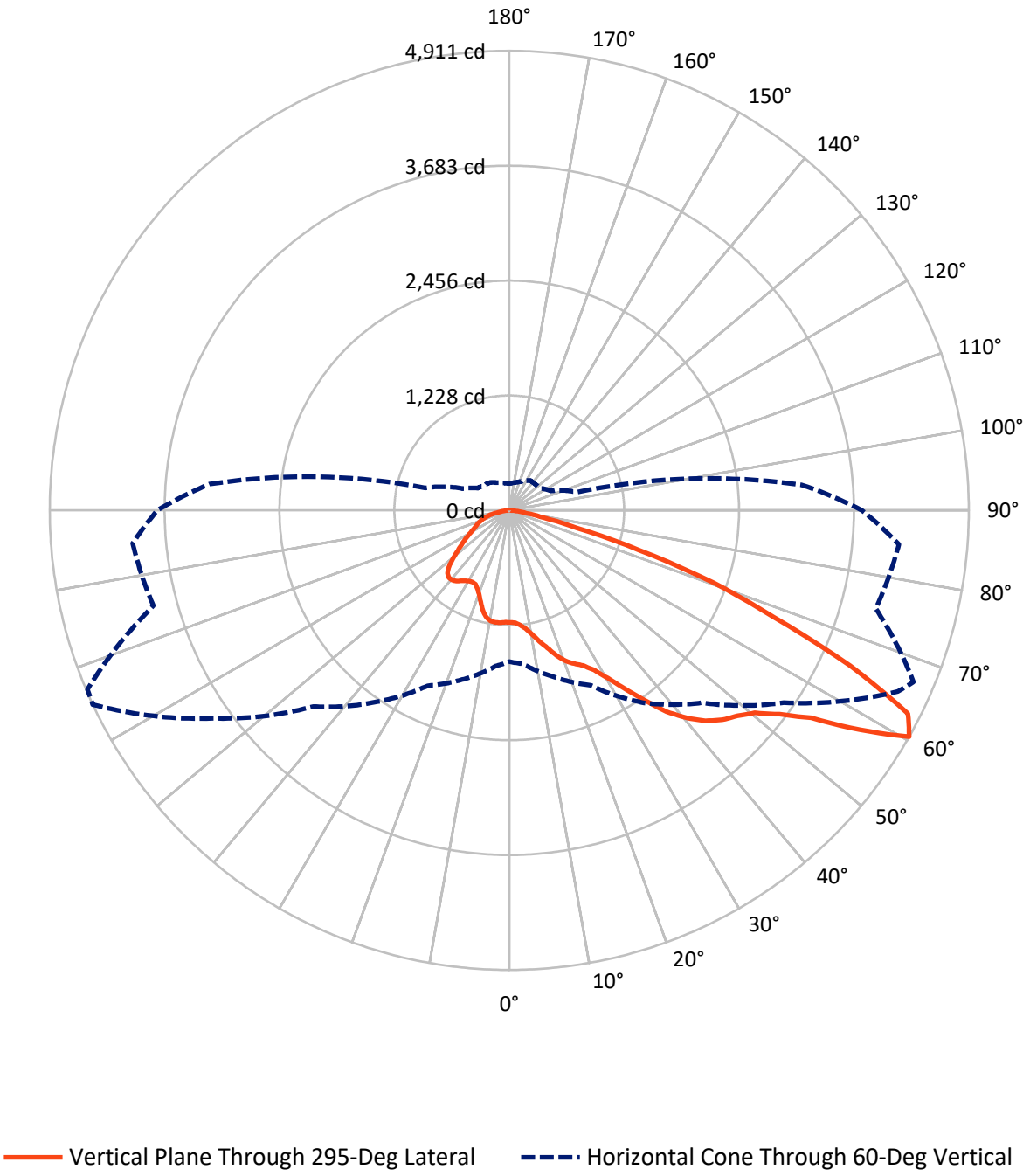
Based on 10 foot mounting height. Maximum calculated value = 18 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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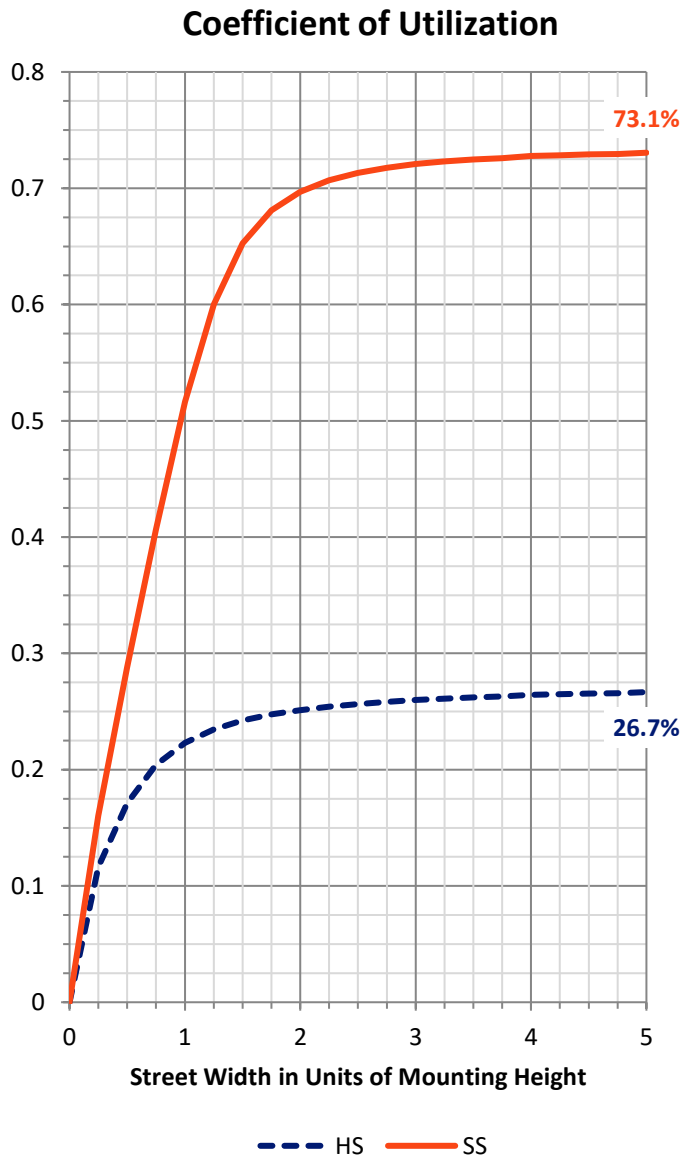
REPORT NUMBER: P1501521
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.7	0.0	2001.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5441.9	0.0	5441.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	7443.6	0.0	7443.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.5
10°-20°	323.7	4.3
20°-30°	613.2	8.2
30°-40°	1081.0	14.5
40°-50°	1598.6	21.5
50°-60°	1877.2	25.2
60°-70°	1360.1	18.3
70°-80°	419.5	5.6
80°-90°	57.7	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°	7443.6	100.0
0°-180°	7443.6	100.0



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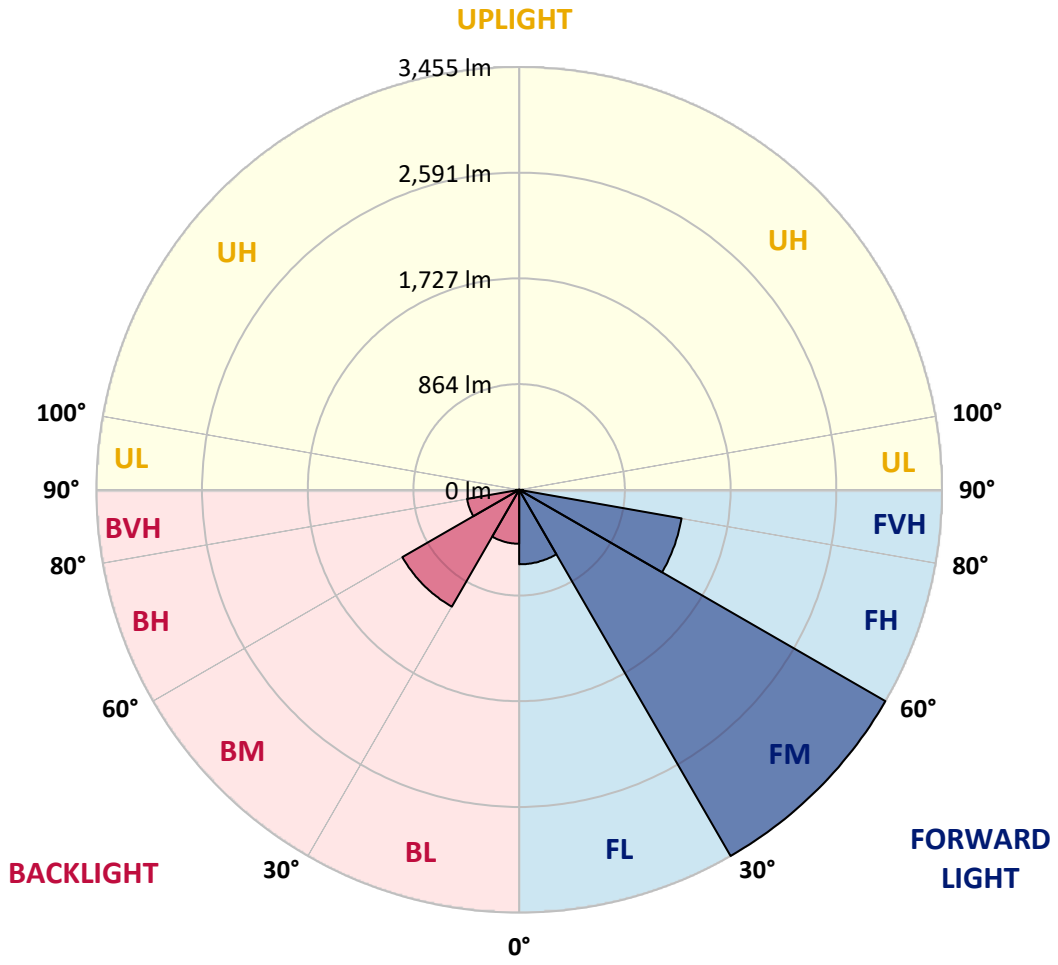
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	608.6	8.2			
FM	(30°-60°)	3454.6	46.4			
FH	(60°-80°)	1347.5	18.1			G1/1800
FVH	(80°-90°)	31.1	0.4			G1/100
BL	(0°-30°)	440.8	5.9	B1/500		
BM	(30°-60°)	1102.2	14.8	B2/2500		
BH	(60°-80°)	432.1	5.8	B1/500		G1/500
BVH	(80°-90°)	26.6	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°	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1221.4	1224.8	1219.7	1223.1	1223.1	1218.0	1216.3	1209.5	1212.9	1211.2	1209.5
5°	1250.2	1251.9	1248.5	1253.6	1253.6	1255.3	1253.6	1245.1	1245.1	1245.1	1241.7
7.5°	1241.7	1241.7	1243.4	1260.4	1277.4	1299.4	1299.4	1296.0	1299.4	1297.7	1282.5
10°	1170.5	1177.3	1192.6	1235.0	1275.7	1323.2	1355.4	1365.6	1365.6	1367.3	1341.8
12.5°	1043.3	1048.4	1084.0	1148.4	1233.3	1319.8	1397.8	1448.7	1453.8	1462.3	1428.4
15°	929.6	933.0	958.5	1024.6	1121.3	1274.0	1421.6	1526.7	1543.7	1579.3	1528.4
17.5°	939.8	938.1	944.9	970.3	1039.9	1199.3	1416.5	1618.3	1648.9	1711.6	1667.5
20°	1000.9	1000.9	1006.0	1011.0	1036.5	1145.1	1379.2	1693.0	1752.4	1874.5	1823.6
22.5°	1097.6	1097.6	1095.9	1104.3	1104.3	1168.8	1380.9	1749.0	1837.2	2056.0	2006.8
25°	1231.6	1224.8	1224.8	1228.2	1212.9	1258.7	1423.3	1806.6	1922.0	2271.5	2229.0
27.5°	1382.5	1387.6	1384.2	1372.4	1352.0	1387.6	1525.0	1896.6	2017.0	2498.8	2481.8
30°	1547.1	1548.8	1552.2	1545.4	1528.4	1553.9	1684.5	2032.3	2142.5	2736.3	2773.6
32.5°	1708.3	1732.0	1723.5	1706.6	1713.3	1759.1	1881.3	2215.5	2329.1	2956.8	3089.1
35°	1913.5	1922.0	1955.9	1893.2	1894.9	1972.9	2132.3	2456.4	2566.6	3185.8	3404.6
37.5°	2212.1	2227.3	2212.1	2113.7	2098.4	2207.0	2376.6	2693.8	2773.6	3358.8	3698.1
40°	2505.6	2524.2	2549.7	2434.3	2337.6	2427.5	2607.3	2875.4	2958.5	3453.8	3893.2
42.5°	2748.1	2778.7	2751.5	2717.6	2629.4	2646.4	2768.5	3016.2	3099.3	3574.3	4090.0
45°	2953.4	2958.5	2970.4	2946.6	2902.5	2887.2	2905.9	3140.0	3231.6	3628.6	4186.7
47.5°	3038.2	3060.3	3070.4	3111.2	3157.0	3126.4	3022.9	3197.7	3280.8	3625.2	4217.2
50°	2992.4	3014.5	3068.7	3165.4	3275.7	3330.0	3160.4	3277.4	3370.7	3686.2	4280.0
52.5°	2872.0	2895.7	2983.9	3094.2	3279.1	3402.9	3353.7	3443.6	3533.6	3794.8	4385.1
55°	2580.2	2615.8	2739.7	2922.9	3177.3	3363.9	3557.3	3687.9	3786.3	3925.4	4493.7
57.5°	2156.1	2193.4	2332.5	2607.3	2989.0	3202.8	3616.7	4145.9	4190.1	4081.5	4503.9
60°	*1615.0*	*1645.5*	*1842.3*	*2062.8*	*2510.6*	*2907.6*	*3582.8*	*4580.2*	*4692.2*	*4054.3*	*4179.9*
62.5°	1279.1	1316.4	1491.1	1592.9	1913.5	2402.1	3464.0	4700.7	4797.4	3830.4	3728.6
65°	999.2	1024.6	1187.5	1333.4	1411.4	1640.4	2968.7	4112.0	4198.5	3465.7	3077.2
67.5°	659.9	698.9	892.3	1092.5	1133.2	1043.3	2042.4	3163.7	3204.5	2754.9	2313.9
70°	473.3	491.9	636.1	849.9	911.0	698.9	1112.8	2395.3	2407.2	1849.1	1559.0
72.5°	322.3	325.7	432.6	651.4	726.1	507.2	612.4	1577.6	1536.9	912.7	892.3
75°	218.8	222.2	276.5	434.3	514.0	352.8	398.6	860.1	826.1	503.8	541.1
77.5°	147.6	151.0	190.0	291.8	342.7	244.3	291.8	454.6	446.1	334.2	290.1
80°	112.0	117.1	140.8	186.6	239.2	142.5	166.2	215.4	218.8	178.1	147.6
82.5°	62.8	69.6	84.8	95.0	154.4	79.7	79.7	128.9	123.8	110.3	79.7
85°	27.1	28.8	33.9	35.6	62.8	33.9	28.8	56.0	57.7	54.3	25.4
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	6.8	6.8	6.8
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°	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1201.0	1211.2	1201.0	1195.9	1195.9	1187.5	1184.1	1184.1	1172.2	1177.3	1173.9
5°	1228.2	1231.6	1219.7	1204.4	1184.1	1167.1	1143.4	1112.8	1094.2	1092.5	1094.2
7.5°	1270.6	1272.3	1240.1	1206.1	1155.2	1094.2	1021.2	961.8	909.3	900.8	911.0
10°	1330.0	1326.6	1279.1	1199.3	1092.5	963.5	851.6	797.3	766.8	765.1	763.4
12.5°	1409.7	1387.6	1314.7	1170.5	983.9	834.6	776.9	773.5	782.0	788.8	790.5
15°	1501.3	1472.5	1343.5	1114.5	873.6	787.1	790.5	819.4	829.5	836.3	836.3
17.5°	1615.0	1577.6	1375.8	1034.8	817.7	797.3	821.0	848.2	865.2	871.9	870.2
20°	1765.9	1687.9	1401.2	958.5	802.4	814.3	834.6	861.8	878.7	887.2	887.2
22.5°	1916.9	1820.2	1406.3	905.9	802.4	816.0	834.6	861.8	880.4	888.9	887.2
25°	2122.2	1989.9	1408.0	868.5	804.1	807.5	824.4	848.2	875.3	883.8	887.2
27.5°	2341.0	2176.5	1416.5	860.1	797.3	795.6	807.5	829.5	856.7	878.7	880.4
30°	2612.4	2386.8	1419.9	868.5	799.0	776.9	785.4	807.5	836.3	858.4	865.2
32.5°	2878.8	2581.9	1413.1	887.2	802.4	765.1	766.8	780.3	810.9	826.1	838.0
35°	3160.4	2788.8	1401.2	912.7	804.1	760.0	744.7	751.5	771.9	773.5	778.6
37.5°	3380.9	2943.2	1365.6	946.6	807.5	741.3	710.8	705.7	697.2	680.2	683.6
40°	3562.4	3046.7	1306.2	963.5	799.0	719.3	668.4	644.6	612.4	586.9	592.0
42.5°	3693.0	3116.2	1235.0	966.9	785.4	681.9	619.2	578.5	542.8	515.7	517.4
45°	3750.7	3109.5	1158.6	941.5	753.2	636.1	573.4	534.4	495.3	466.5	463.1
47.5°	3752.4	3043.3	1053.5	880.4	698.9	583.6	531.0	488.6	456.3	436.0	434.3
50°	3766.0	3006.0	955.1	792.2	627.7	527.6	493.6	451.2	432.6	403.7	395.3
52.5°	3850.8	3067.1	887.2	695.5	561.5	486.9	461.4	424.1	393.6	374.9	373.2
55°	3988.2	3172.2	849.9	622.6	498.7	447.8	430.9	398.6	371.5	352.8	347.8
57.5°	4005.1	3226.5	805.8	554.7	447.8	417.3	410.5	374.9	335.9	322.3	317.2
60°	*3767.7*	*3134.9*	*751.5*	*491.9*	*410.5*	*393.6*	*390.2*	*342.7*	*310.4*	*293.5*	*286.7*
62.5°	3443.6	2905.9	668.4	434.3	381.7	369.8	356.2	318.9	278.2	259.5	254.5
65°	2814.3	2442.8	568.3	395.3	352.8	339.3	335.9	285.0	257.8	247.7	246.0
67.5°	2132.3	1962.7	500.4	366.4	322.3	317.2	305.3	288.4	276.5	264.6	261.2
70°	1508.1	1416.5	425.8	329.1	291.8	283.3	332.5	313.8	271.4	256.2	254.5
72.5°	914.3	888.9	368.1	295.2	251.1	264.6	307.0	283.3	244.3	225.6	218.8
75°	576.8	527.6	308.7	251.1	200.2	215.4	268.0	252.8	210.4	191.7	186.6
77.5°	313.8	291.8	232.4	205.3	157.8	174.7	234.1	208.7	167.9	183.2	162.9
80°	137.4	152.7	154.4	118.7	105.2	128.9	167.9	162.9	128.9	130.6	108.6
82.5°	66.2	86.5	100.1	81.4	59.4	76.3	112.0	93.3	86.5	81.4	78.0
85°	20.4	32.2	44.1	39.0	27.1	32.2	52.6	50.9	61.1	52.6	49.2
87.5°	6.8	6.8	5.1	5.1	5.1	6.8	8.5	5.1	1.7	1.7	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°	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1172.2	1173.9	1173.9	1175.6	1175.6	1180.7	1187.5	1194.3	1189.2	1195.9	1197.6
5°	1090.8	1099.3	1106.0	1131.5	1151.8	1168.8	1187.5	1204.4	1209.5	1212.9	1221.4
7.5°	899.1	922.8	966.9	1024.6	1089.1	1151.8	1194.3	1238.4	1245.1	1253.6	1265.5
10°	765.1	775.2	805.8	865.2	980.5	1104.3	1207.8	1277.4	1306.2	1323.2	1335.0
12.5°	787.1	780.3	775.2	783.7	858.4	1017.8	1199.3	1333.4	1387.6	1406.3	1421.6
15°	839.7	832.9	814.3	790.5	799.0	926.2	1170.5	1385.9	1472.5	1503.0	1535.2
17.5°	870.2	863.5	848.2	822.7	800.7	849.9	1116.2	1433.4	1606.5	1643.8	1689.6
20°	887.2	880.4	865.2	839.7	814.3	821.0	1046.7	1492.8	1759.1	1818.5	1886.4
22.5°	890.6	882.1	865.2	839.7	824.4	819.4	980.5	1528.4	1923.7	2015.3	2093.3
25°	888.9	873.6	851.6	832.9	824.4	822.7	934.7	1548.8	2101.8	2247.7	2335.9
27.5°	877.0	858.4	836.3	822.7	819.4	829.5	914.3	1572.5	2310.5	2497.1	2637.9
30°	863.5	836.3	809.2	804.1	812.6	844.8	931.3	1581.0	2529.3	2768.5	2912.7
32.5°	827.8	807.5	780.3	778.6	799.0	856.7	970.3	1569.2	2722.7	3039.9	3221.4
35°	776.9	765.1	749.8	754.9	787.1	866.8	997.5	1531.8	2899.1	3292.7	3504.7
37.5°	687.0	695.5	704.0	715.9	756.6	865.2	1009.3	1472.5	3045.0	3494.5	3766.0
40°	586.9	615.8	642.9	673.5	727.7	851.6	1012.7	1399.5	3129.8	3647.2	3998.4
42.5°	524.2	551.3	585.3	629.4	688.7	821.0	1009.3	1318.1	3157.0	3752.4	4145.9
45°	466.5	498.7	541.1	586.9	654.8	776.9	978.8	1229.9	3170.5	3801.6	4208.7
47.5°	436.0	454.6	493.6	539.4	610.7	722.7	919.4	1165.4	3150.2	3811.8	4285.1
50°	400.3	425.8	451.2	495.3	564.9	654.8	848.2	1128.1	3184.1	3911.8	4405.5
52.5°	373.2	386.8	413.9	454.6	505.5	592.0	780.3	1097.6	3277.4	4013.6	4531.0
55°	352.8	368.1	385.1	419.0	458.0	529.3	710.8	1051.8	3386.0	4122.2	4656.6
57.5°	320.6	330.8	354.5	390.2	415.6	468.2	629.4	997.5	3377.5	4037.4	4439.4
60°	*291.8*	*302.0*	*327.4*	*363.0*	*378.3*	*413.9*	*549.6*	*927.9*	*3214.6*	*3760.9*	*4039.1*
62.5°	259.5	271.4	302.0	327.4	341.0	368.1	466.5	800.7	2875.4	3345.3	3570.9
65°	246.0	252.8	273.1	303.7	302.0	327.4	393.6	629.4	2313.9	2556.4	2761.7
67.5°	261.2	271.4	268.0	276.5	271.4	285.0	352.8	505.5	1818.5	1925.4	2044.1
70°	257.8	281.6	293.5	276.5	237.5	252.8	305.3	403.7	1301.1	1290.9	1285.9
72.5°	225.6	249.4	283.3	300.3	232.4	210.4	264.6	349.5	834.6	831.2	751.5
75°	191.7	208.7	249.4	271.4	200.2	169.6	227.3	296.9	498.7	505.5	451.2
77.5°	176.4	167.9	208.7	239.2	162.9	130.6	183.2	223.9	274.8	278.2	257.8
80°	127.2	122.1	156.1	174.7	123.8	93.3	103.5	139.1	147.6	132.3	137.4
82.5°	81.4	83.1	93.3	112.0	76.3	50.9	71.2	93.3	79.7	64.5	76.3
85°	52.6	59.4	49.2	57.7	23.7	23.7	30.5	40.7	27.1	18.7	20.4
87.5°	0.0	0.0	3.4	6.8	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: P1501521
CATALOG NUMBER: GSS-SB2A-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1197.6	1197.6	*1197.6*	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1202.7	1201.0	*1201.0*	1204.4	1212.9	1216.3	1221.4	1219.7	1224.8	1221.4
5°	1226.5	1228.2	*1233.3*	1235.0	1240.1	1246.8	1248.5	1246.8	1250.2	1250.2
7.5°	1274.0	1280.8	*1277.4*	1285.9	1279.1	1270.6	1257.0	1246.8	1238.4	1241.7
10°	1353.7	1350.3	*1348.6*	1333.4	1302.8	1258.7	1223.1	1184.1	1177.3	1170.5
12.5°	1441.9	1438.5	*1438.5*	1385.9	1299.4	1207.8	1126.4	1065.3	1045.0	1043.3
15°	1565.8	1543.7	*1523.3*	1413.1	1240.1	1084.0	989.0	941.5	929.6	929.6
17.5°	1720.1	1662.5	*1628.5*	1392.7	1143.4	1002.6	946.6	934.7	931.3	939.8
20°	1911.8	1765.9	*1716.7*	1346.9	1107.7	1012.7	985.6	987.3	989.0	1000.9
22.5°	2122.2	1860.9	*1779.5*	1346.9	1143.4	1077.2	1063.6	1082.3	1087.4	1097.6
25°	2356.3	1945.7	*1835.5*	1418.2	1248.5	1199.3	1182.4	1201.0	1214.6	1231.6
27.5°	2619.2	2034.0	*1932.2*	1547.1	1384.2	1353.7	1335.0	1343.5	1362.2	1382.5
30°	2855.0	2181.5	*2079.8*	1743.9	1569.2	1531.8	1499.6	1513.2	1533.5	1547.1
32.5°	3063.7	2361.4	*2274.8*	1950.8	1781.2	1716.7	1681.1	1677.7	1718.4	1708.3
35°	3255.4	2573.4	*2490.3*	2186.6	1996.6	1916.9	1869.4	1930.5	1903.3	1913.5
37.5°	3406.3	2793.9	*2727.8*	2412.3	2220.6	2112.0	2083.2	2157.8	2200.2	2212.1
40°	3530.2	2985.6	*2916.1*	2636.2	2425.8	2346.1	2391.9	2515.7	2510.6	2505.6
42.5°	3625.2	3150.2	*3073.8*	2805.8	2622.6	2637.9	2673.5	2756.6	2777.0	2748.1
45°	3667.6	3253.7	*3192.6*	2939.8	2846.5	2934.7	2950.0	2985.6	2972.1	2953.4
47.5°	3716.8	3345.3	*3280.8*	3062.0	3089.1	3175.6	3145.1	3116.2	3067.1	3038.2
50°	3799.9	3453.8	*3399.5*	3240.1	3338.5	3309.6	3190.9	3126.4	3026.3	2992.4
52.5°	3957.7	3659.1	*3618.4*	3521.7	3455.5	3289.3	3145.1	3029.7	2917.8	2872.0
55°	4098.5	3937.3	*3913.5*	3784.6	3419.9	3182.4	2989.0	2810.9	2619.2	2580.2
57.5°	4179.9	4398.7	*4425.9*	3896.6	3257.0	2939.8	2654.8	2369.8	2188.3	2156.1
60°	*3937.3*	*4897.4*	*4911.0*	*3874.5*	*2963.6*	*2502.2*	*2067.9*	*1866.0*	*1670.9*	*1615.0*
62.5°	3603.1	4794.0	*4782.1*	3742.2	2359.7	1825.3	1570.8	1475.8	1324.9	1279.1
65°	3097.6	3993.3	*4006.8*	3233.3	1569.2	1319.8	1319.8	1199.3	1031.4	999.2
67.5°	2524.2	3078.9	*3048.4*	2096.7	963.5	1056.8	1107.7	934.7	698.9	659.9
70°	1640.4	2351.2	*2308.8*	1209.5	605.6	880.4	871.9	702.3	500.4	473.3
72.5°	705.7	1358.8	*1445.3*	617.5	456.3	709.1	695.5	491.9	334.2	322.3
75°	425.8	683.6	*744.7*	393.6	332.5	534.4	481.8	312.1	227.3	218.8
77.5°	269.7	374.9	*371.5*	295.2	249.4	361.3	324.0	215.4	154.4	147.6
80°	156.1	184.9	*191.7*	184.9	167.9	257.8	207.0	156.1	120.4	112.0
82.5°	100.1	115.4	*117.1*	89.9	93.3	166.2	112.0	91.6	69.6	62.8
85°	44.1	49.2	*47.5*	30.5	30.5	67.9	39.0	37.3	27.1	27.1
87.5°	1.7	3.4	*1.7*	1.7	1.7	6.8	3.4	5.1	5.1	5.1
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

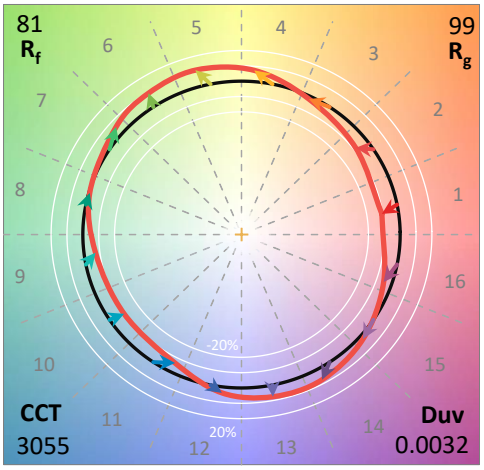
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

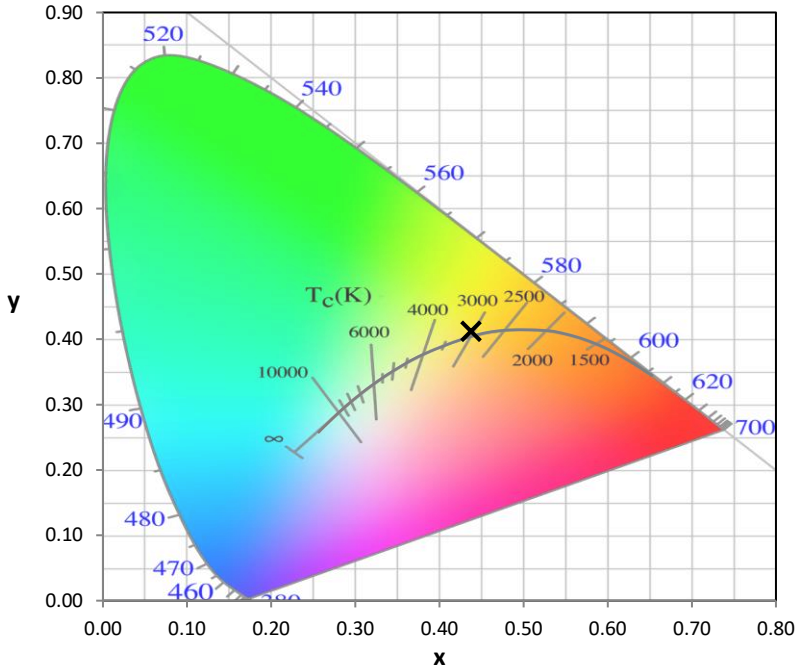
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

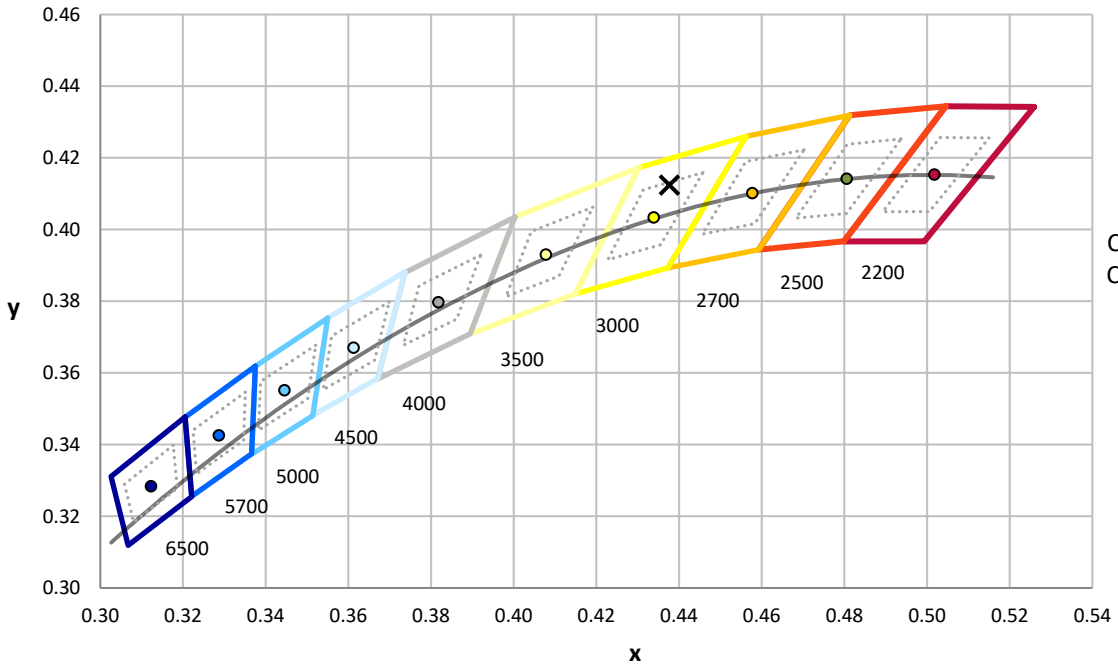
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

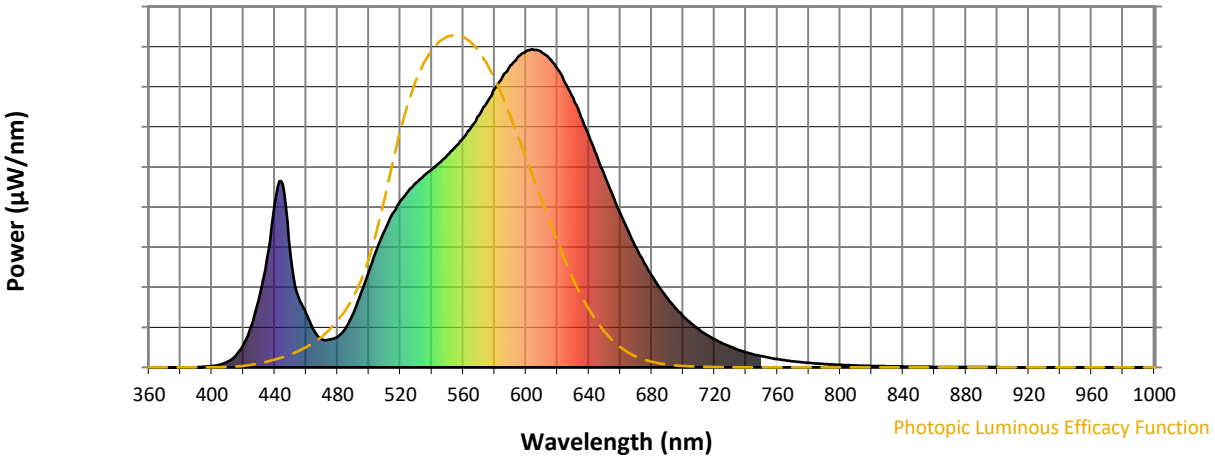


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

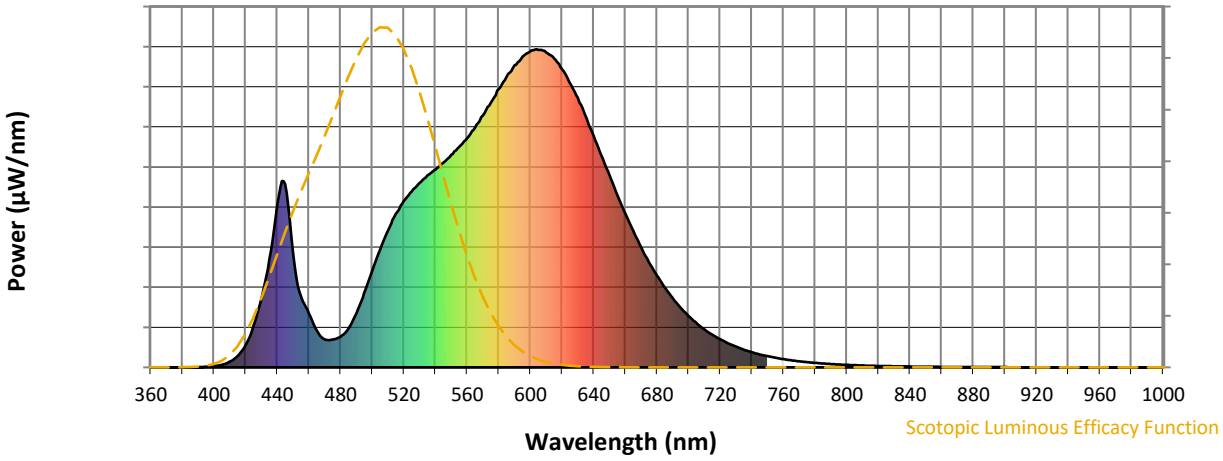


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

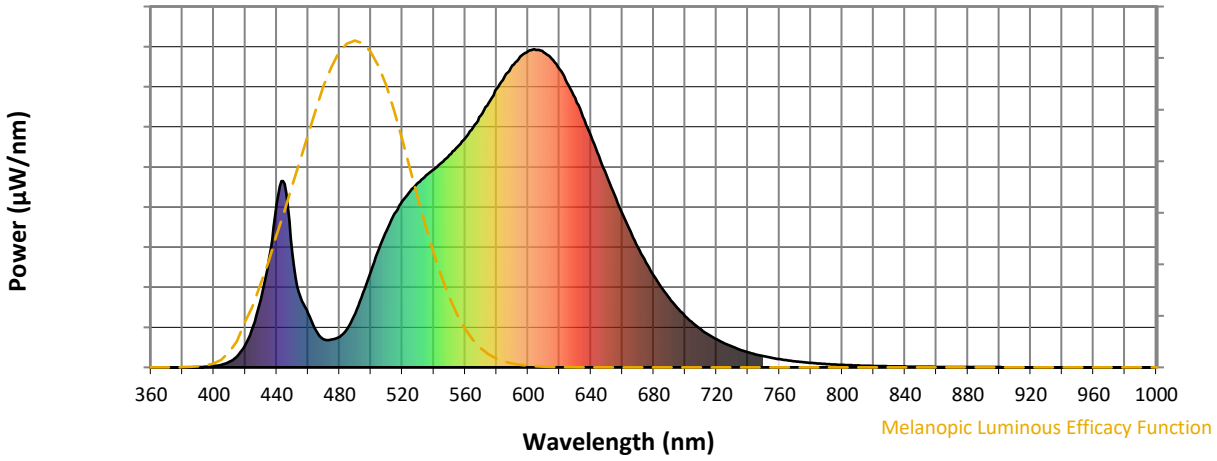


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

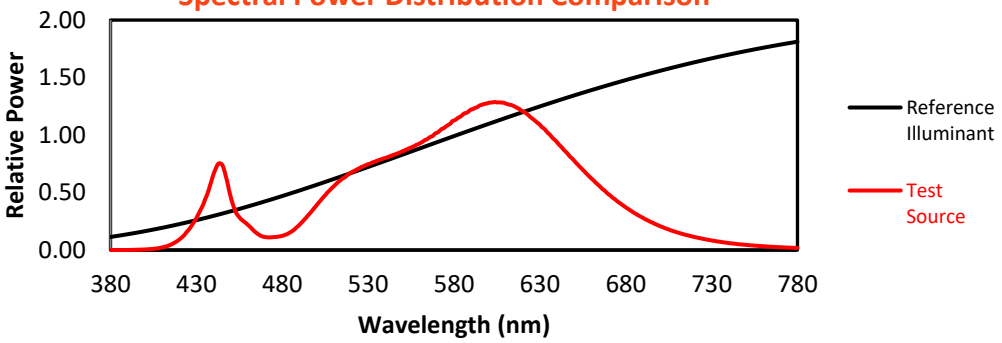
REPORT NUMBER: SP1-2407-184-9

TM-30-18

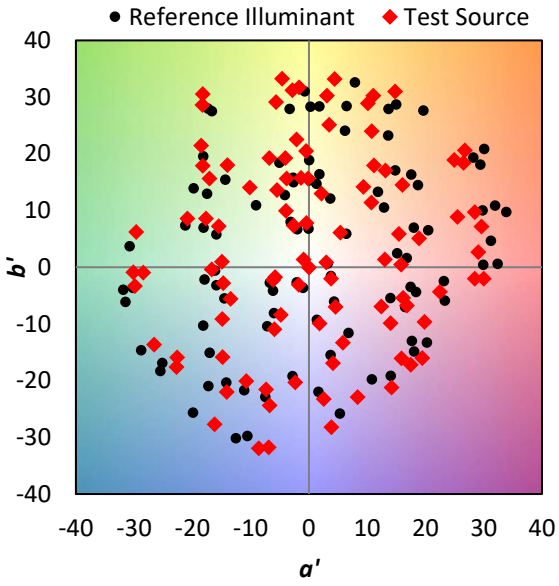
Summary

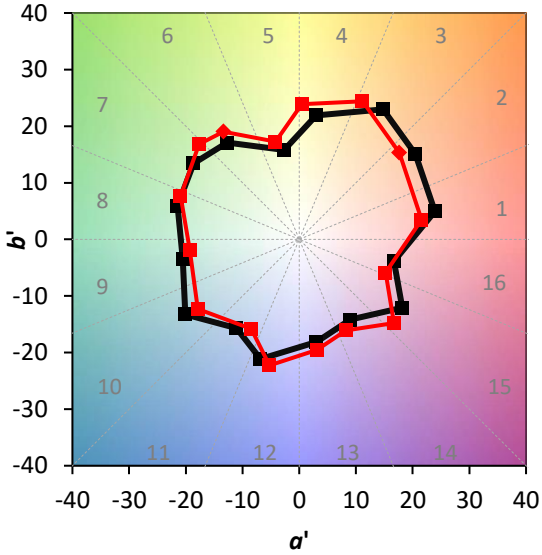
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

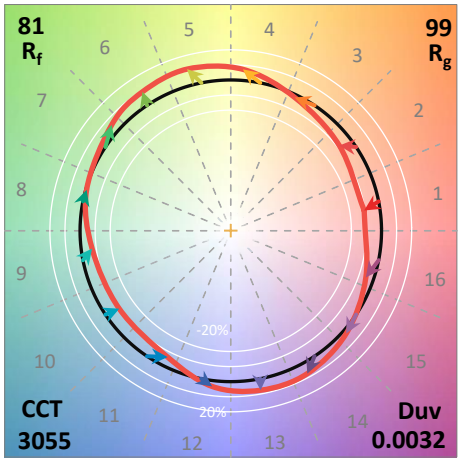
Spectral Power Distribution Comparison

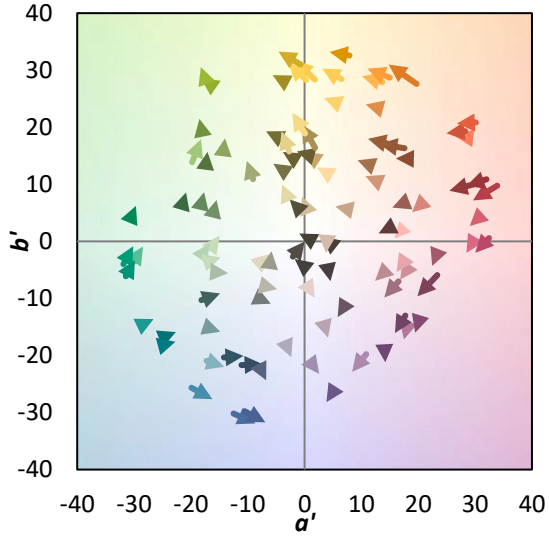


Color Vector Graphics







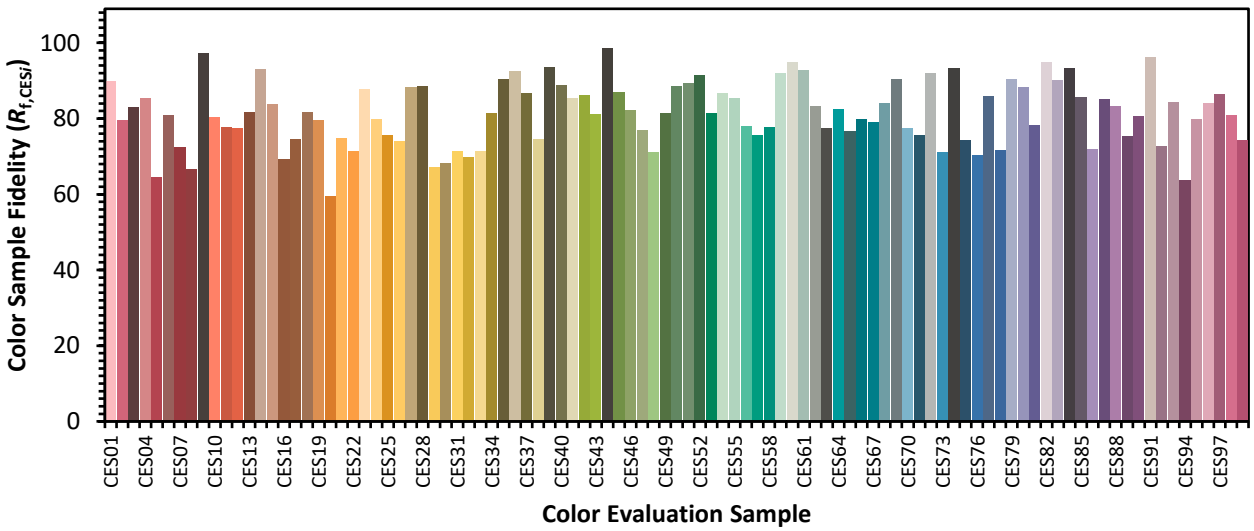


REPORT NUMBER: SP1-2407-184-9

TM-30-18

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

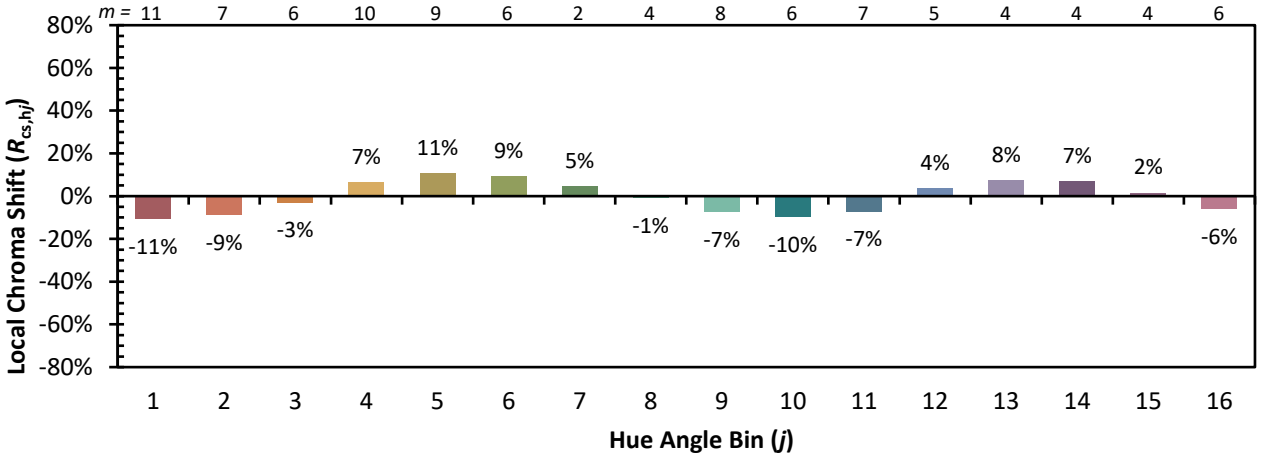
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

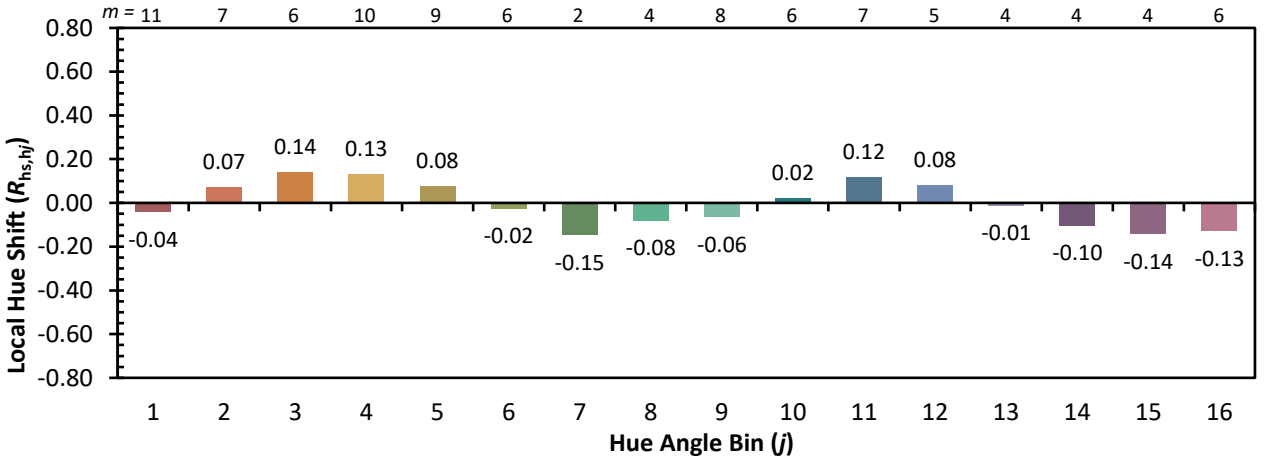


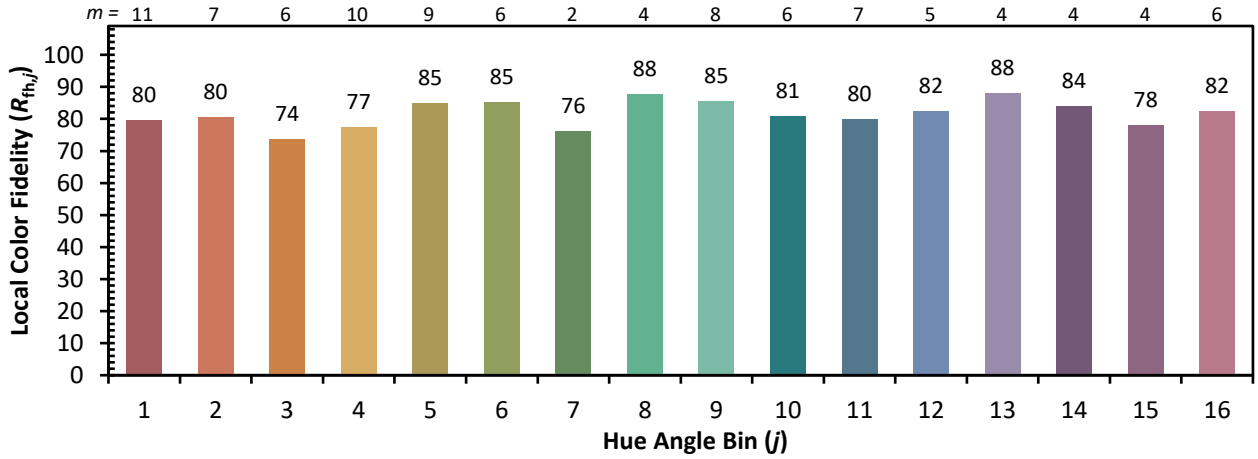
REPORT NUMBER: SP1-2407-184-9

TM-30-18

Color Rendition by Hue-Angle Bin



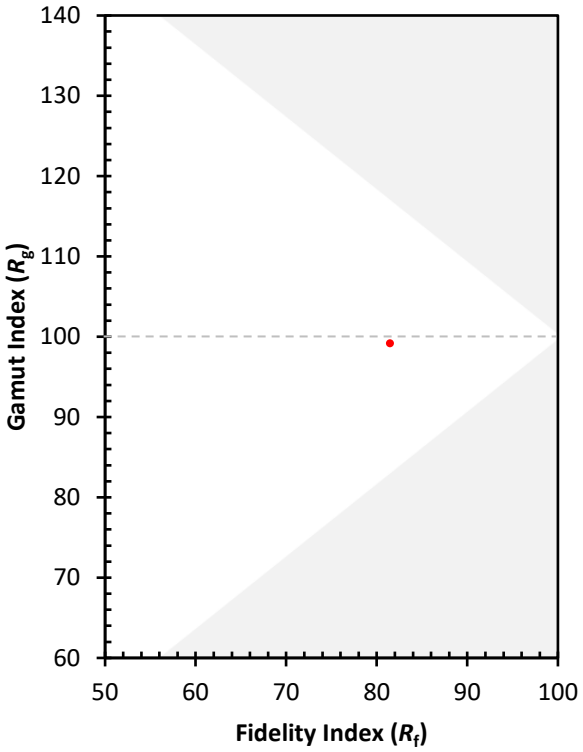


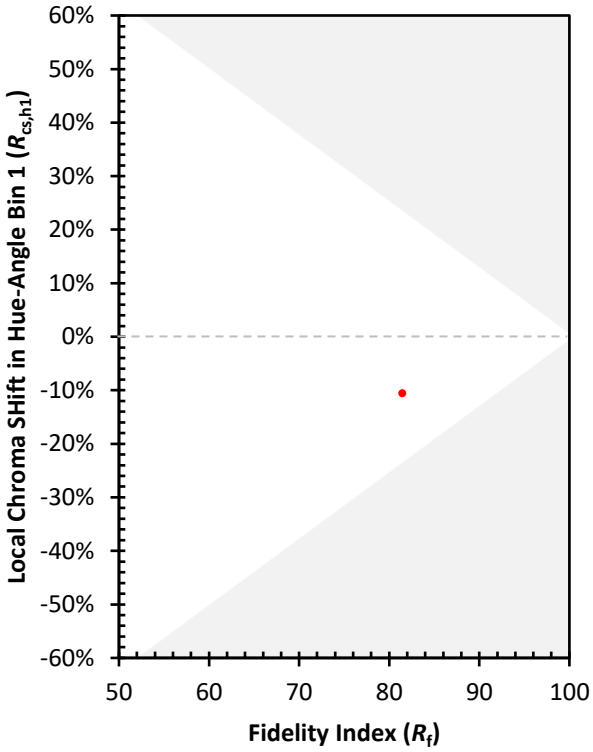


REPORT NUMBER: SP1-2407-184-9

TM-30-18

Measure Comparisons





(END OF REPORT)