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: P1501523

Luminaire Tested: GSS-SB2C-830-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501523
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 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:	12366.8 lumens
Efficiency:	N/A
Efficacy:	121.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

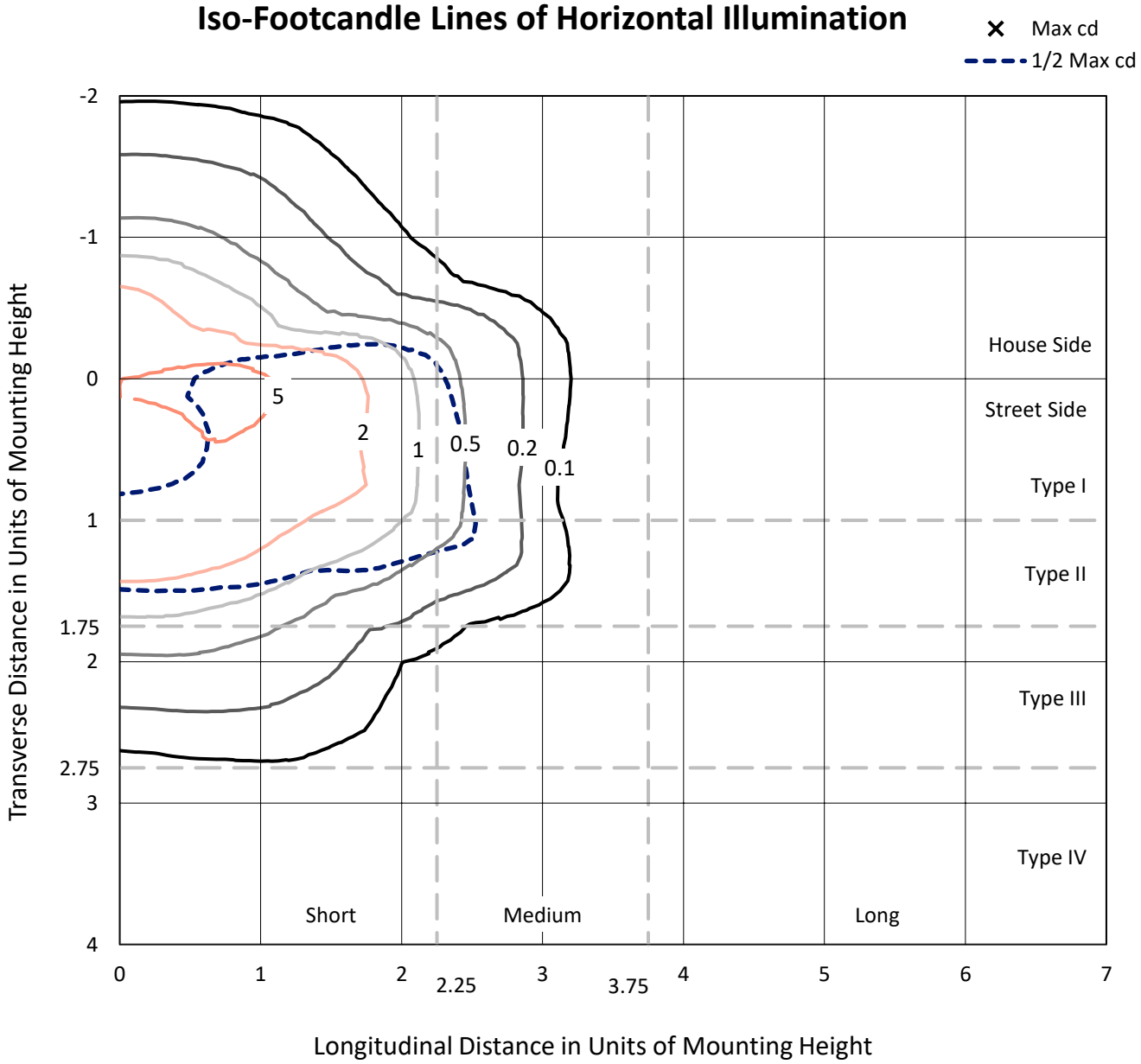
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



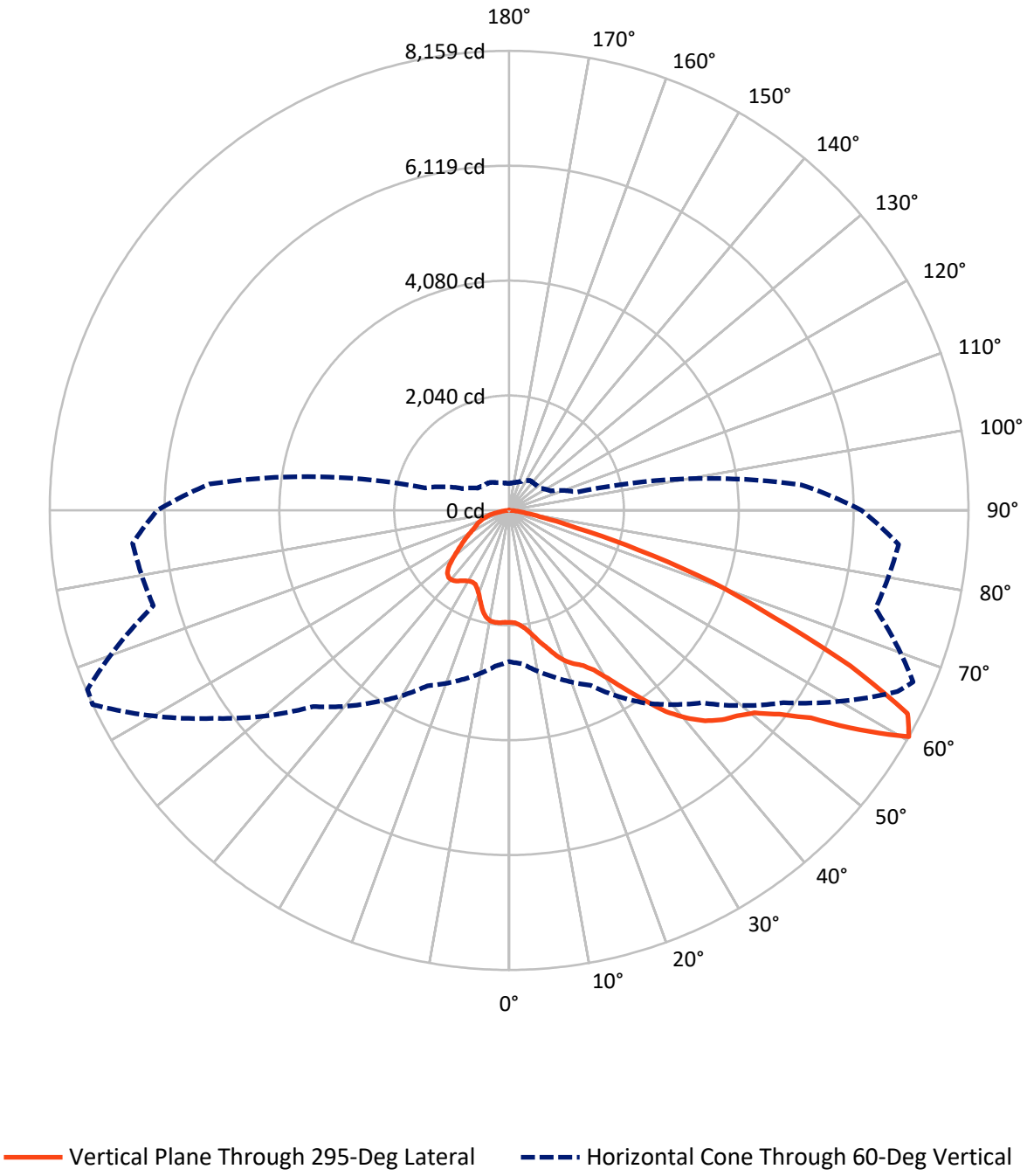
Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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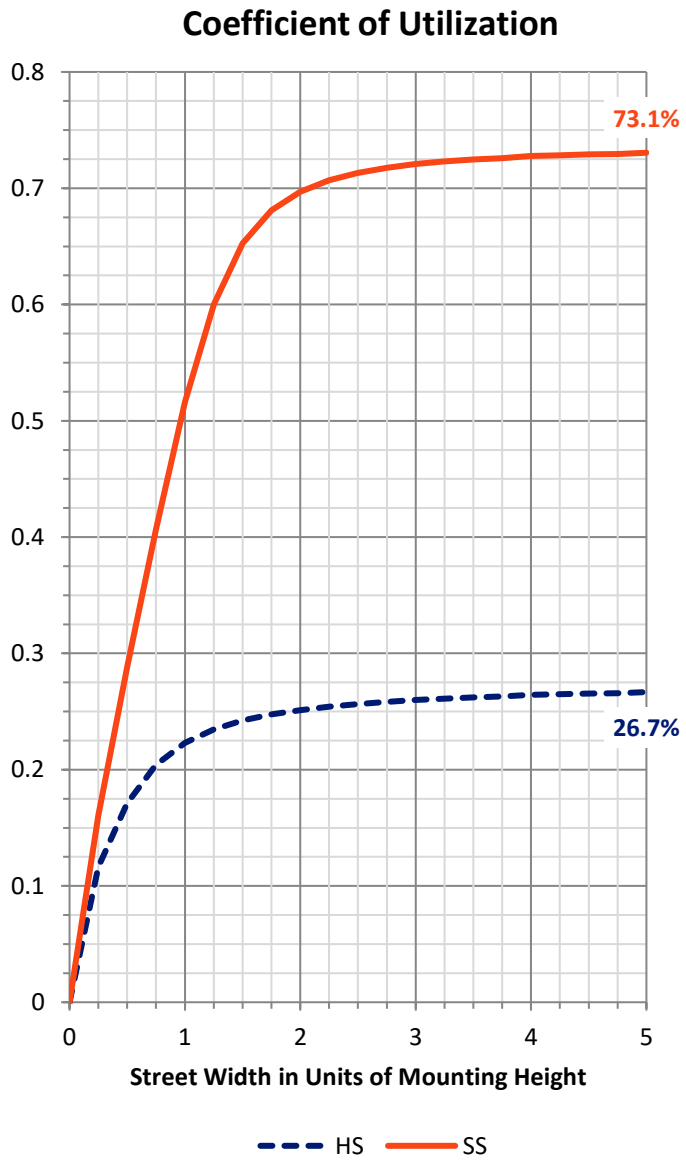
REPORT NUMBER: P1501523
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3325.6	0.0	3325.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9041.2	0.0	9041.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	12366.8	0.0	12366.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.5
10°-20°	537.8	4.3
20°-30°	1018.7	8.2
30°-40°	1795.9	14.5
40°-50°	2656.0	21.5
50°-60°	3118.8	25.2
60°-70°	2259.7	18.3
70°-80°	696.9	5.6
80°-90°	95.9	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°	12366.8	100.0
0°-180°	12366.8	100.0



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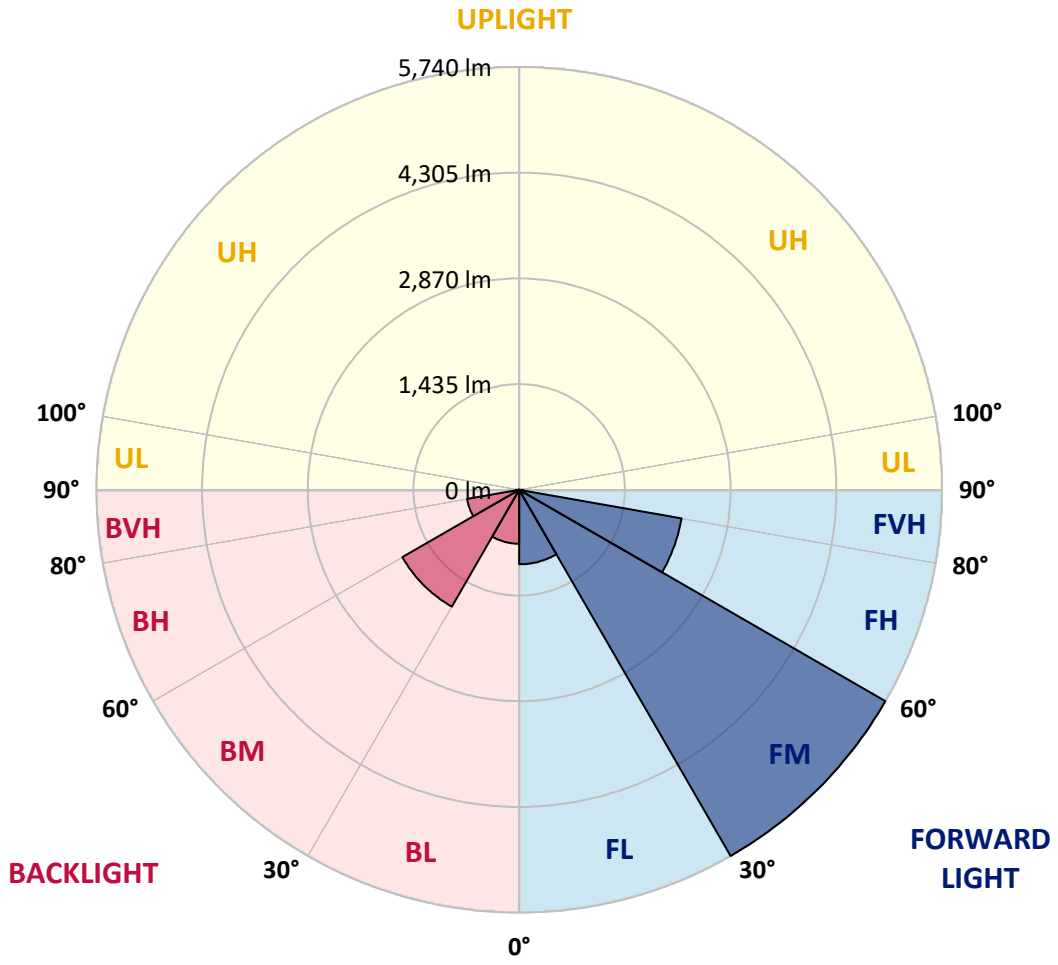
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1011.2	8.2			
FM	(30°-60°)	5739.5	46.4			
FH	(60°-80°)	2238.8	18.1			G2/5000
FVH	(80°-90°)	51.8	0.4			G1/100
BL	(0°-30°)	732.4	5.9	B2/1000		
BM	(30°-60°)	1831.2	14.8	B2/2500		
BH	(60°-80°)	717.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	44.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8
2.5°	2029.2	2034.9	2026.4	2032.0	2032.0	2023.6	2020.8	2009.5	2015.1	2012.3	2009.5
5°	2077.1	2079.9	2074.3	2082.8	2082.8	2085.6	2082.8	2068.7	2068.7	2068.7	2063.0
7.5°	2063.0	2063.0	2065.9	2094.0	2122.2	2158.9	2158.9	2153.2	2158.9	2156.0	2130.7
10°	1944.7	1955.9	1981.3	2051.8	2119.4	2198.3	2251.9	2268.8	2268.8	2271.6	2229.3
12.5°	1733.3	1741.7	1800.9	1908.0	2048.9	2192.7	2322.3	2406.9	2415.3	2429.4	2373.1
15°	1544.5	1550.1	1592.4	1702.3	1862.9	2116.6	2361.8	2536.5	2564.7	2623.9	2539.3
17.5°	1561.4	1558.5	1569.8	1612.1	1727.7	1992.6	2353.3	2688.7	2739.4	2843.7	2770.4
20°	1662.8	1662.8	1671.3	1679.7	1722.0	1902.4	2291.3	2812.7	2911.4	3114.3	3029.7
22.5°	1823.5	1823.5	1820.7	1834.7	1834.7	1941.8	2294.1	2905.7	3052.3	3415.8	3334.1
25°	2046.1	2034.9	2034.9	2040.5	2015.1	2091.2	2364.6	3001.5	3193.2	3773.8	3703.3
27.5°	2297.0	2305.4	2299.8	2280.0	2246.2	2305.4	2533.7	3150.9	3351.0	4151.4	4123.3
30°	2570.3	2573.2	2578.8	2567.5	2539.3	2581.6	2798.6	3376.4	3559.6	4546.0	4608.0
32.5°	2838.1	2877.5	2863.4	2835.3	2846.5	2922.6	3125.6	3680.8	3869.6	4912.4	5132.2
35°	3179.1	3193.2	3249.6	3145.3	3148.1	3277.7	3542.7	4081.0	4264.2	5292.9	5656.4
37.5°	3675.1	3700.5	3675.1	3511.7	3486.3	3666.7	3948.5	4475.5	4608.0	5580.3	6144.0
40°	4162.7	4193.7	4236.0	4044.3	3883.7	4033.1	4331.8	4777.1	4915.2	5738.2	6468.1
42.5°	4565.7	4616.5	4571.4	4515.0	4368.4	4396.6	4599.6	5011.0	5149.1	5938.3	6795.0
45°	4906.8	4915.2	4934.9	4895.5	4822.2	4796.8	4827.8	5216.8	5369.0	6028.5	6955.7
47.5°	5047.7	5084.3	5101.2	5168.9	5245.0	5194.2	5022.3	5312.6	5450.7	6022.8	7006.4
50°	4971.6	5008.2	5098.4	5259.0	5442.2	5532.4	5250.6	5445.1	5600.1	6124.3	7110.7
52.5°	4771.5	4810.9	4957.5	5140.7	5447.9	5653.6	5571.9	5721.3	5870.6	6304.7	7285.4
55°	4286.7	4345.9	4551.6	4856.0	5278.8	5588.8	5910.1	6127.1	6290.6	6521.7	7465.8
57.5°	3582.1	3644.1	3875.2	4331.8	4965.9	5321.1	6008.7	6888.1	6961.3	6781.0	7482.7
60°	*2683.1*	*2733.8*	*3060.7*	*3427.1*	*4171.2*	*4830.7*	*5952.4*	*7609.6*	*7795.6*	*6735.9*	*6944.4*
62.5°	2125.0	2187.0	2477.3	2646.4	3179.1	3990.8	5755.1	7809.7	7970.3	6363.8	6194.7
65°	1660.0	1702.3	1972.8	2215.2	2344.9	2725.3	4932.1	6831.7	6975.4	5757.9	5112.5
67.5°	1096.3	1161.2	1482.5	1815.0	1882.7	1733.3	3393.3	5256.2	5323.9	4577.0	3844.2
70°	786.3	817.3	1056.9	1412.0	1513.5	1161.2	1848.8	3979.5	3999.2	3072.0	2590.1
72.5°	535.5	541.1	718.7	1082.2	1206.3	842.7	1017.4	2621.1	2553.4	1516.3	1482.5
75°	363.6	369.2	459.4	721.5	854.0	586.2	662.3	1428.9	1372.5	837.1	899.1
77.5°	245.2	250.8	315.7	484.8	569.3	405.8	484.8	755.3	741.2	555.2	481.9
80°	186.0	194.5	233.9	310.0	397.4	236.7	276.2	357.9	363.6	295.9	245.2
82.5°	104.3	115.6	140.9	157.8	256.5	132.5	132.5	214.2	205.7	183.2	132.5
85°	45.1	47.9	56.4	59.2	104.3	56.4	47.9	93.0	95.8	90.2	42.3
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	11.3	11.3	11.3	11.3
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°	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8
2.5°	1995.4	2012.3	1995.4	1986.9	1986.9	1972.8	1967.2	1967.2	1947.5	1955.9	1950.3
5°	2040.5	2046.1	2026.4	2001.0	1967.2	1939.0	1899.6	1848.8	1817.8	1815.0	1817.8
7.5°	2110.9	2113.8	2060.2	2003.8	1919.3	1817.8	1696.6	1598.0	1510.6	1496.5	1513.5
10°	2209.6	2204.0	2125.0	1992.6	1815.0	1600.8	1414.8	1324.6	1273.9	1271.1	1268.3
12.5°	2342.1	2305.4	2184.2	1944.7	1634.6	1386.6	1290.8	1285.2	1299.3	1310.5	1313.4
15°	2494.2	2446.3	2232.1	1851.7	1451.5	1307.7	1313.4	1361.3	1378.2	1389.4	1389.4
17.5°	2683.1	2621.1	2285.7	1719.2	1358.4	1324.6	1364.1	1409.2	1437.4	1448.6	1445.8
20°	2933.9	2804.3	2328.0	1592.4	1333.1	1352.8	1386.6	1431.7	1459.9	1474.0	1474.0
22.5°	3184.7	3024.1	2336.4	1505.0	1333.1	1355.6	1386.6	1431.7	1462.7	1476.8	1474.0
25°	3525.8	3305.9	2339.2	1443.0	1335.9	1341.5	1369.7	1409.2	1454.3	1468.4	1474.0
27.5°	3889.3	3615.9	2353.3	1428.9	1324.6	1321.8	1341.5	1378.2	1423.3	1459.9	1462.7
30°	4340.3	3965.4	2359.0	1443.0	1327.4	1290.8	1304.9	1341.5	1389.4	1426.1	1437.4
32.5°	4782.7	4289.5	2347.7	1474.0	1333.1	1271.1	1273.9	1296.4	1347.2	1372.5	1392.3
35°	5250.6	4633.4	2328.0	1516.3	1335.9	1262.6	1237.3	1248.5	1282.4	1285.2	1293.6
37.5°	5617.0	4889.8	2268.8	1572.6	1341.5	1231.6	1180.9	1172.4	1158.3	1130.2	1135.8
40°	5918.5	5061.8	2170.1	1600.8	1327.4	1195.0	1110.4	1071.0	1017.4	975.2	983.6
42.5°	6135.6	5177.3	2051.8	1606.5	1304.9	1133.0	1028.7	961.1	901.9	856.8	859.6
45°	6231.4	5166.0	1924.9	1564.2	1251.3	1056.9	952.6	887.8	823.0	775.0	769.4
47.5°	6234.2	5056.1	1750.2	1462.7	1161.2	969.5	882.1	811.7	758.1	724.3	721.5
50°	6256.7	4994.1	1586.7	1316.2	1042.8	876.5	820.1	749.7	718.7	670.8	656.7
52.5°	6397.7	5095.6	1474.0	1155.5	932.9	808.9	766.6	704.6	653.9	622.9	620.0
55°	6625.9	5270.3	1412.0	1034.3	828.6	744.0	715.9	662.3	617.2	586.2	577.8
57.5°	6654.1	5360.5	1338.7	921.6	744.0	693.3	682.0	622.9	558.0	535.5	527.0
60°	*6259.6*	*5208.3*	*1248.5*	*817.3*	*682.0*	*653.9*	*648.2*	*569.3*	*515.8*	*487.6*	*476.3*
62.5°	5721.3	4827.8	1110.4	721.5	634.1	614.4	591.9	529.9	462.2	431.2	422.8
65°	4675.6	4058.4	944.1	656.7	586.2	563.7	558.0	473.5	428.4	411.5	408.7
67.5°	3542.7	3260.8	831.4	608.8	535.5	527.0	507.3	479.1	459.4	439.7	434.0
70°	2505.5	2353.3	707.4	546.8	484.8	470.7	552.4	521.4	450.9	425.6	422.8
72.5°	1519.1	1476.8	611.6	490.4	417.1	439.7	510.1	470.7	405.8	374.8	363.6
75°	958.2	876.5	512.9	417.1	332.6	357.9	445.3	419.9	349.5	318.5	310.0
77.5°	521.4	484.8	386.1	341.0	262.1	290.3	388.9	346.7	279.0	304.4	270.6
80°	228.3	253.7	256.5	197.3	174.7	214.2	279.0	270.6	214.2	217.0	180.4
82.5°	109.9	143.7	166.3	135.3	98.6	126.8	186.0	155.0	143.7	135.3	129.6
85°	33.8	53.5	73.3	64.8	45.1	53.5	87.4	84.6	101.5	87.4	81.7
87.5°	11.3	11.3	8.5	8.5	8.5	11.3	14.1	8.5	2.8	2.8	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°	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8
2.5°	1947.5	1950.3	1950.3	1953.1	1953.1	1961.6	1972.8	1984.1	1975.7	1986.9	1989.8
5°	1812.2	1826.3	1837.6	1879.8	1913.7	1941.8	1972.8	2001.0	2009.5	2015.1	2029.2
7.5°	1493.7	1533.2	1606.5	1702.3	1809.4	1913.7	1984.1	2057.4	2068.7	2082.8	2102.5
10°	1271.1	1288.0	1338.7	1437.4	1629.0	1834.7	2006.7	2122.2	2170.1	2198.3	2218.0
12.5°	1307.7	1296.4	1288.0	1302.1	1426.1	1691.0	1992.6	2215.2	2305.4	2336.4	2361.8
15°	1395.1	1383.8	1352.8	1313.4	1327.4	1538.8	1944.7	2302.6	2446.3	2497.1	2550.6
17.5°	1445.8	1434.5	1409.2	1366.9	1330.3	1412.0	1854.5	2381.5	2669.0	2731.0	2807.1
20°	1474.0	1462.7	1437.4	1395.1	1352.8	1364.1	1738.9	2480.2	2922.6	3021.3	3134.0
22.5°	1479.6	1465.5	1437.4	1395.1	1369.7	1361.3	1629.0	2539.3	3196.0	3348.2	3477.8
25°	1476.8	1451.5	1414.8	1383.8	1369.7	1366.9	1552.9	2573.2	3491.9	3734.3	3880.9
27.5°	1457.1	1426.1	1389.4	1366.9	1361.3	1378.2	1519.1	2612.6	3838.6	4148.6	4382.5
30°	1434.5	1389.4	1344.4	1335.9	1350.0	1403.5	1547.3	2626.7	4202.2	4599.6	4839.1
32.5°	1375.4	1341.5	1296.4	1293.6	1327.4	1423.3	1612.1	2607.0	4523.5	5050.5	5352.1
35°	1290.8	1271.1	1245.7	1254.2	1307.7	1440.2	1657.2	2545.0	4816.6	5470.4	5822.7
37.5°	1141.4	1155.5	1169.6	1189.3	1257.0	1437.4	1676.9	2446.3	5058.9	5805.8	6256.7
40°	975.2	1023.1	1068.2	1118.9	1209.1	1414.8	1682.6	2325.1	5199.9	6059.5	6642.9
42.5°	870.9	916.0	972.3	1045.6	1144.3	1364.1	1676.9	2189.9	5245.0	6234.2	6888.1
45°	775.0	828.6	899.1	975.2	1087.9	1290.8	1626.2	2043.3	5267.5	6315.9	6992.3
47.5°	724.3	755.3	820.1	896.2	1014.6	1200.6	1527.5	1936.2	5233.7	6332.8	7119.2
50°	665.1	707.4	749.7	823.0	938.5	1087.9	1409.2	1874.2	5290.0	6499.1	7319.3
52.5°	620.0	642.6	687.7	755.3	839.9	983.6	1296.4	1823.5	5445.1	6668.2	7527.8
55°	586.2	611.6	639.8	696.1	761.0	879.3	1180.9	1747.4	5625.4	6848.6	7736.4
57.5°	532.7	549.6	589.0	648.2	690.5	777.9	1045.6	1657.2	5611.3	6707.7	7375.6
60°	*484.8*	*501.7*	*543.9*	*603.1*	*628.5*	*687.7*	*913.1*	*1541.6*	*5340.8*	*6248.3*	*6710.5*
62.5°	431.2	450.9	501.7	543.9	566.5	611.6	775.0	1330.3	4777.1	5557.8	5932.6
65°	408.7	419.9	453.8	504.5	501.7	543.9	653.9	1045.6	3844.2	4247.3	4588.3
67.5°	434.0	450.9	445.3	459.4	450.9	473.5	586.2	839.9	3021.3	3198.8	3396.1
70°	428.4	467.8	487.6	459.4	394.6	419.9	507.3	670.8	2161.7	2144.8	2136.3
72.5°	374.8	414.3	470.7	498.8	386.1	349.5	439.7	580.6	1386.6	1381.0	1248.5
75°	318.5	346.7	414.3	450.9	332.6	281.8	377.7	493.2	828.6	839.9	749.7
77.5°	293.1	279.0	346.7	397.4	270.6	217.0	304.4	372.0	456.6	462.2	428.4
80°	211.4	202.9	259.3	290.3	205.7	155.0	171.9	231.1	245.2	219.8	228.3
82.5°	135.3	138.1	155.0	186.0	126.8	84.6	118.4	155.0	132.5	107.1	126.8
85°	87.4	98.6	81.7	95.8	39.5	39.5	50.7	67.6	45.1	31.0	33.8
87.5°	0.0	0.0	5.6	11.3	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: P1501523
CATALOG NUMBER: GSS-SB2C-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1989.8	1989.8	*1989.8*	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8	1989.8
2.5°	1998.2	1995.4	*1995.4*	2001.0	2015.1	2020.8	2029.2	2026.4	2034.9	2029.2
5°	2037.7	2040.5	*2048.9*	2051.8	2060.2	2071.5	2074.3	2071.5	2077.1	2077.1
7.5°	2116.6	2127.9	*2122.2*	2136.3	2125.0	2110.9	2088.4	2071.5	2057.4	2063.0
10°	2249.0	2243.4	*2240.6*	2215.2	2164.5	2091.2	2032.0	1967.2	1955.9	1944.7
12.5°	2395.6	2390.0	*2390.0*	2302.6	2158.9	2006.7	1871.4	1769.9	1736.1	1733.3
15°	2601.3	2564.7	*2530.9*	2347.7	2060.2	1800.9	1643.1	1564.2	1544.5	1544.5
17.5°	2857.8	2762.0	*2705.6*	2313.9	1899.6	1665.6	1572.6	1552.9	1547.3	1561.4
20°	3176.3	2933.9	*2852.2*	2237.8	1840.4	1682.6	1637.5	1640.3	1643.1	1662.8
22.5°	3525.8	3091.7	*2956.5*	2237.8	1899.6	1789.7	1767.1	1798.1	1806.6	1823.5
25°	3914.7	3232.7	*3049.5*	2356.1	2074.3	1992.6	1964.4	1995.4	2017.9	2046.1
27.5°	4351.5	3379.2	*3210.1*	2570.3	2299.8	2249.0	2218.0	2232.1	2263.1	2297.0
30°	4743.3	3624.4	*3455.3*	2897.3	2607.0	2545.0	2491.4	2514.0	2547.8	2570.3
32.5°	5089.9	3923.1	*3779.4*	3241.1	2959.3	2852.2	2793.0	2787.4	2855.0	2838.1
35°	5408.4	4275.4	*4137.3*	3632.9	3317.2	3184.7	3105.8	3207.3	3162.2	3179.1
37.5°	5659.3	4641.8	*4531.9*	4007.7	3689.2	3508.8	3460.9	3584.9	3655.4	3675.1
40°	5865.0	4960.3	*4844.7*	4379.7	4030.2	3897.8	3973.9	4179.6	4171.2	4162.7
42.5°	6022.8	5233.7	*5106.9*	4661.6	4357.2	4382.5	4441.7	4579.8	4613.6	4565.7
45°	6093.3	5405.6	*5304.1*	4884.2	4729.2	4875.8	4901.1	4960.3	4937.8	4906.8
47.5°	6175.0	5557.8	*5450.7*	5087.1	5132.2	5276.0	5225.2	5177.3	5095.6	5047.7
50°	6313.1	5738.2	*5648.0*	5383.1	5546.5	5498.6	5301.3	5194.2	5027.9	4971.6
52.5°	6575.2	6079.2	*6011.5*	5850.9	5741.0	5464.8	5225.2	5033.6	4847.6	4771.5
55°	6809.1	6541.4	*6501.9*	6287.7	5681.8	5287.2	4965.9	4670.0	4351.5	4286.7
57.5°	6944.4	7308.0	*7353.1*	6473.8	5411.2	4884.2	4410.7	3937.2	3635.7	3582.1
60°	*6541.4*	*8136.6*	*8159.1*	*6437.1*	*4923.7*	*4157.1*	*3435.6*	*3100.2*	*2776.1*	*2683.1*
62.5°	5986.2	7964.7	*7944.9*	6217.3	3920.3	3032.5	2609.8	2452.0	2201.1	2125.0
65°	5146.3	6634.4	*6656.9*	5371.8	2607.0	2192.7	2192.7	1992.6	1713.6	1660.0
67.5°	4193.7	5115.3	*5064.6*	3483.5	1600.8	1755.8	1840.4	1552.9	1161.2	1096.3
70°	2725.3	3906.2	*3835.8*	2009.5	1006.2	1462.7	1448.6	1166.8	831.4	786.3
72.5°	1172.4	2257.5	*2401.2*	1025.9	758.1	1178.1	1155.5	817.3	555.2	535.5
75°	707.4	1135.8	*1237.3*	653.9	552.4	887.8	800.4	518.6	377.7	363.6
77.5°	448.1	622.9	*617.2*	490.4	414.3	600.3	538.3	357.9	256.5	245.2
80°	259.3	307.2	*318.5*	307.2	279.0	428.4	343.8	259.3	200.1	186.0
82.5°	166.3	191.6	*194.5*	149.4	155.0	276.2	186.0	152.2	115.6	104.3
85°	73.3	81.7	*78.9*	50.7	50.7	112.7	64.8	62.0	45.1	45.1
87.5°	2.8	5.6	*2.8*	2.8	2.8	11.3	5.6	8.5	8.5	8.5
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

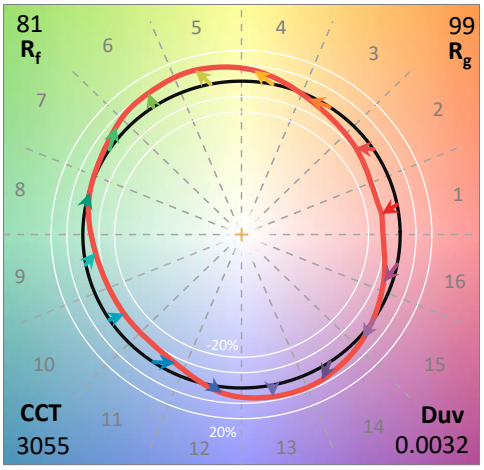
Test Information

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

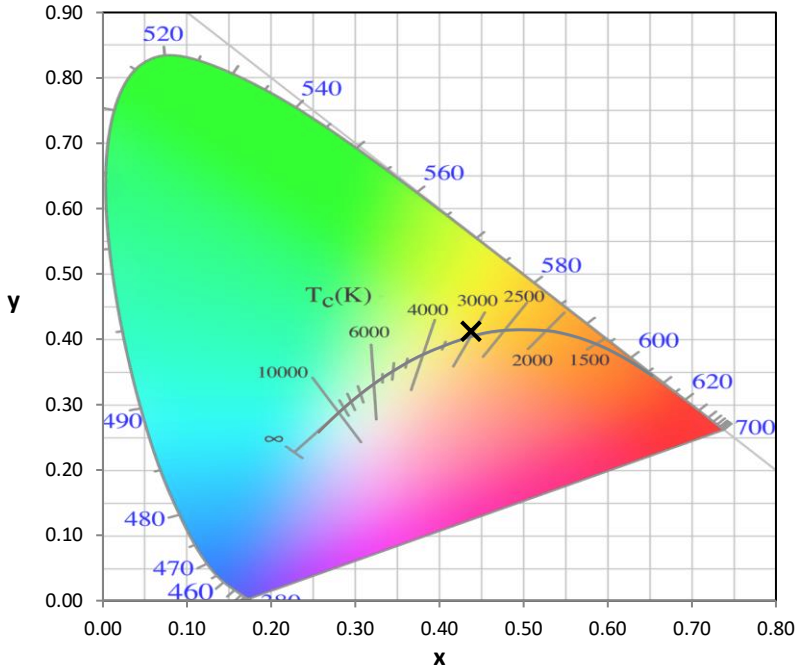
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

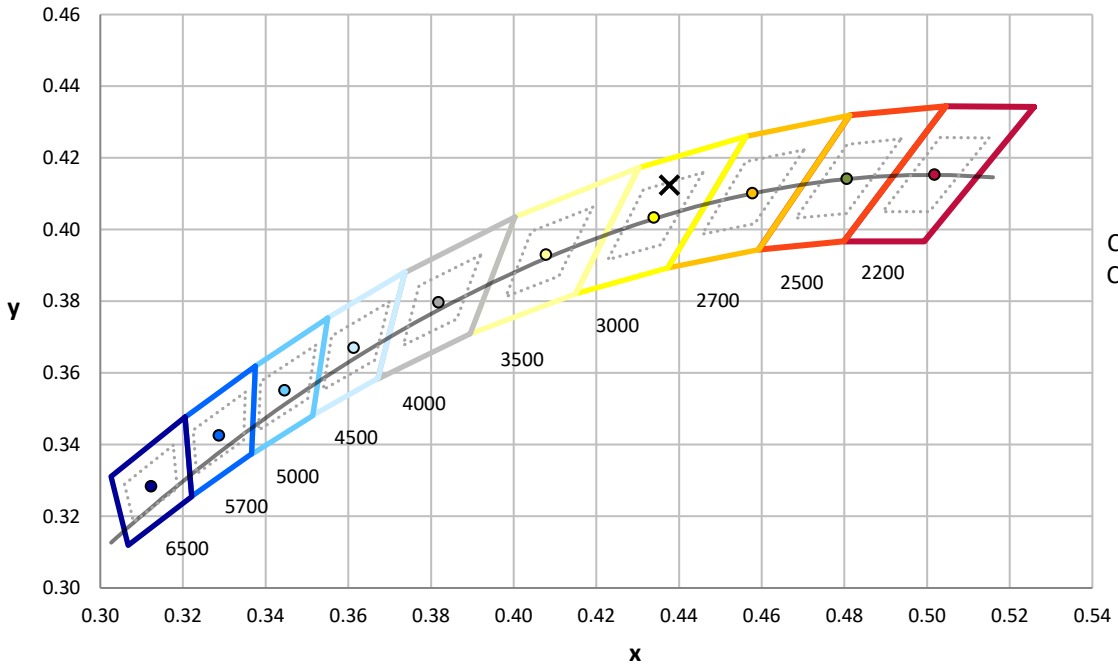
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

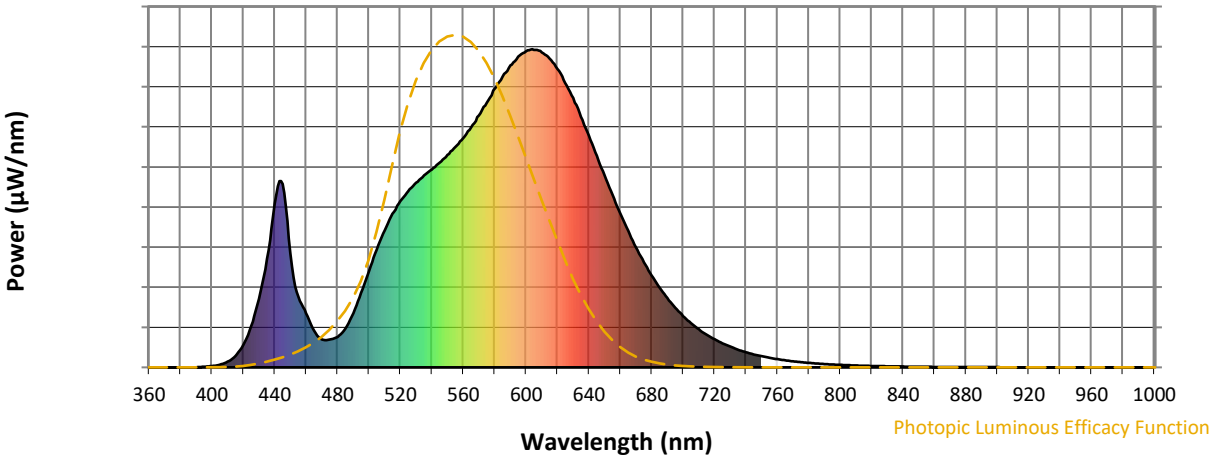


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

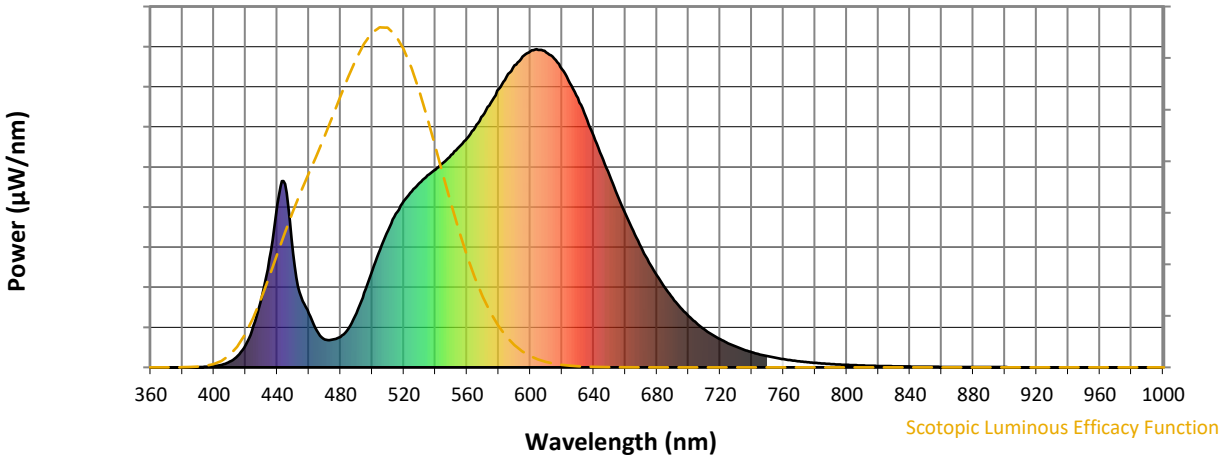


Photopic Lumens: NR

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

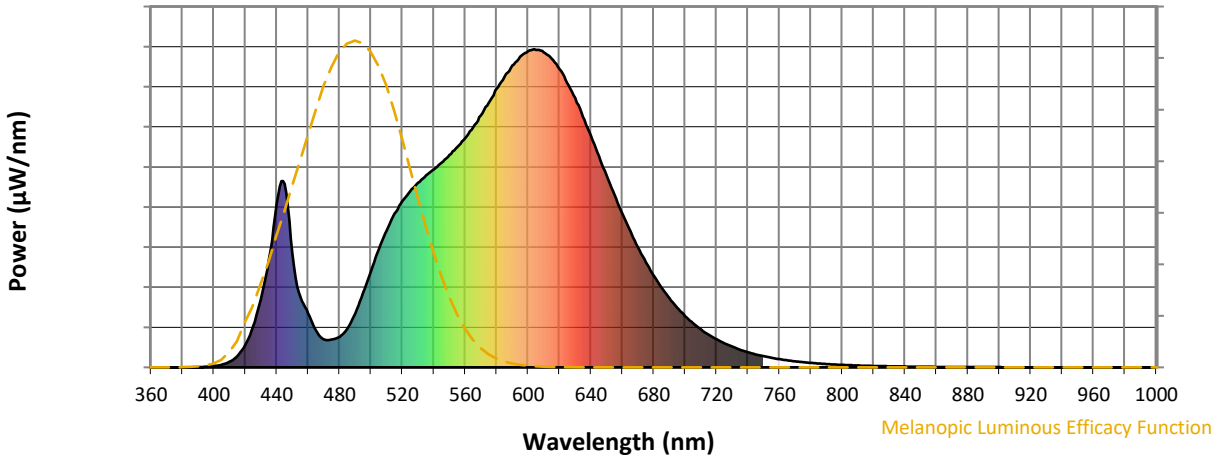


Scotopic Lumens: NR **S/P: 1.28**

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			

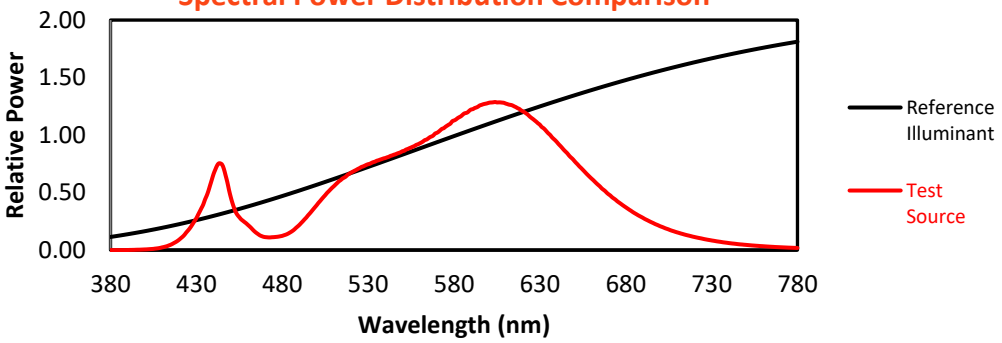
REPORT NUMBER: SP1-2407-184-9

TM-30-18

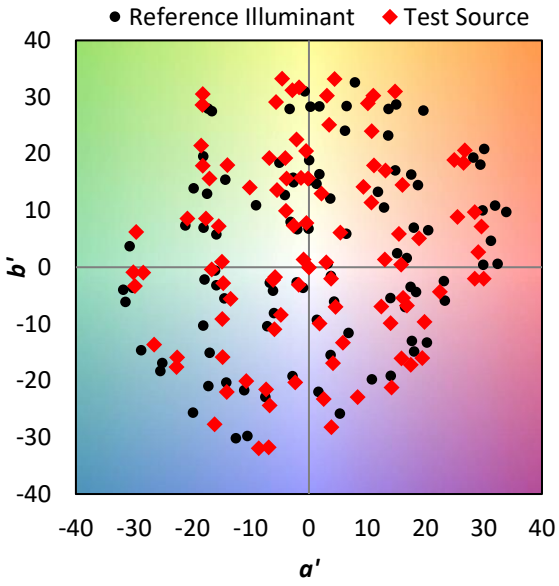
Summary

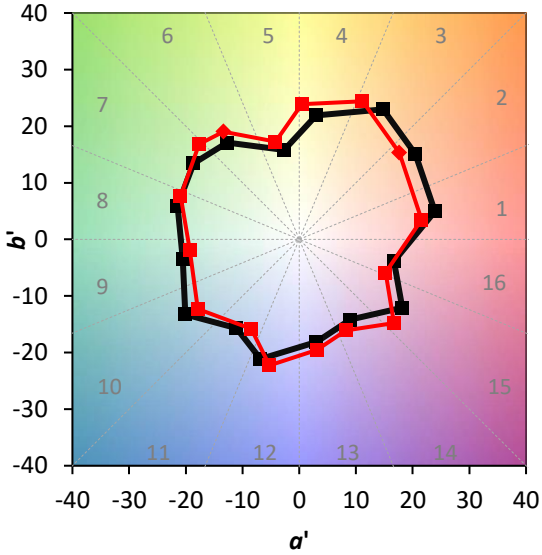
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

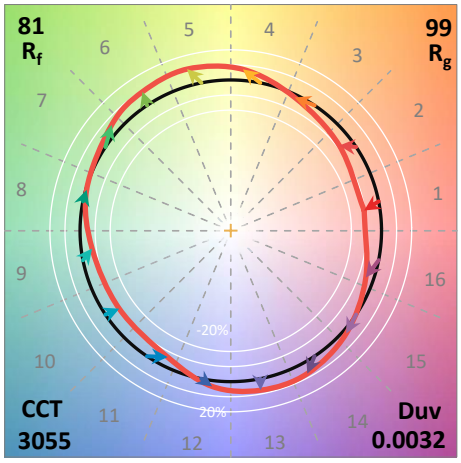
Spectral Power Distribution Comparison

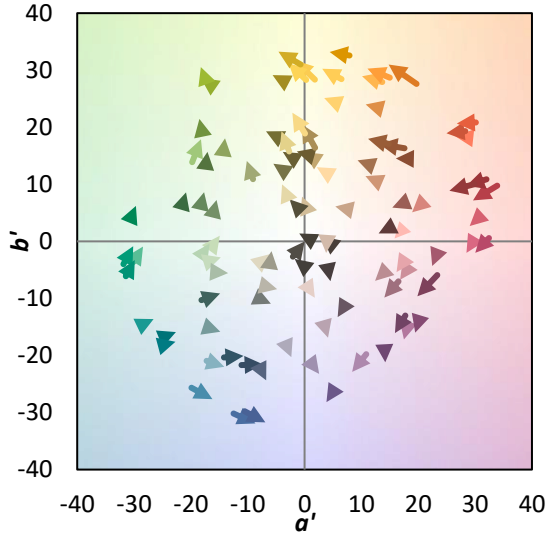


Color Vector Graphics







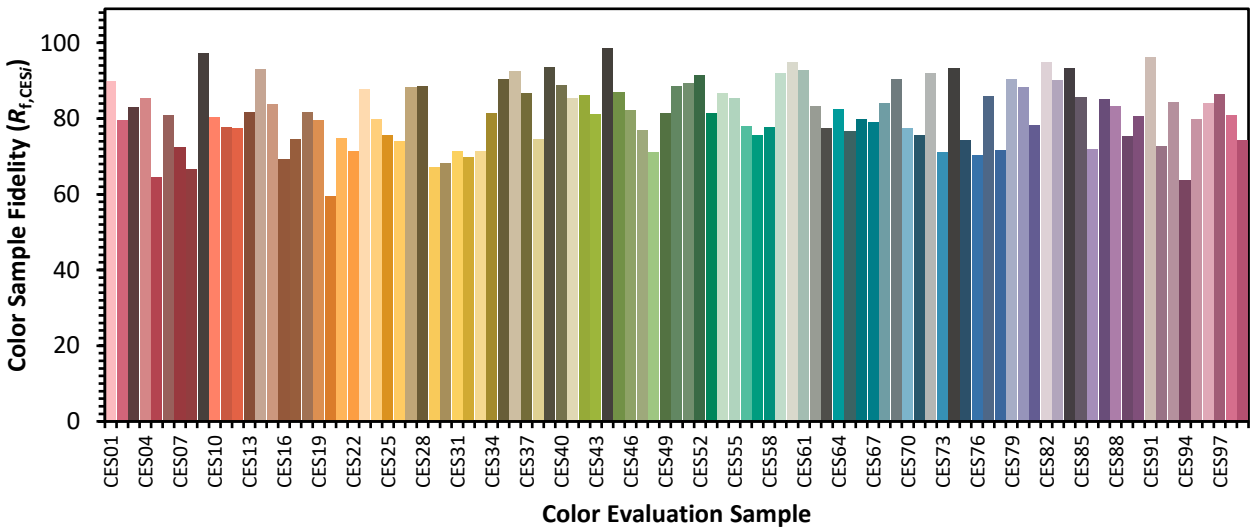


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Individual Sample Fidelity Index ($R_{f,i}$)

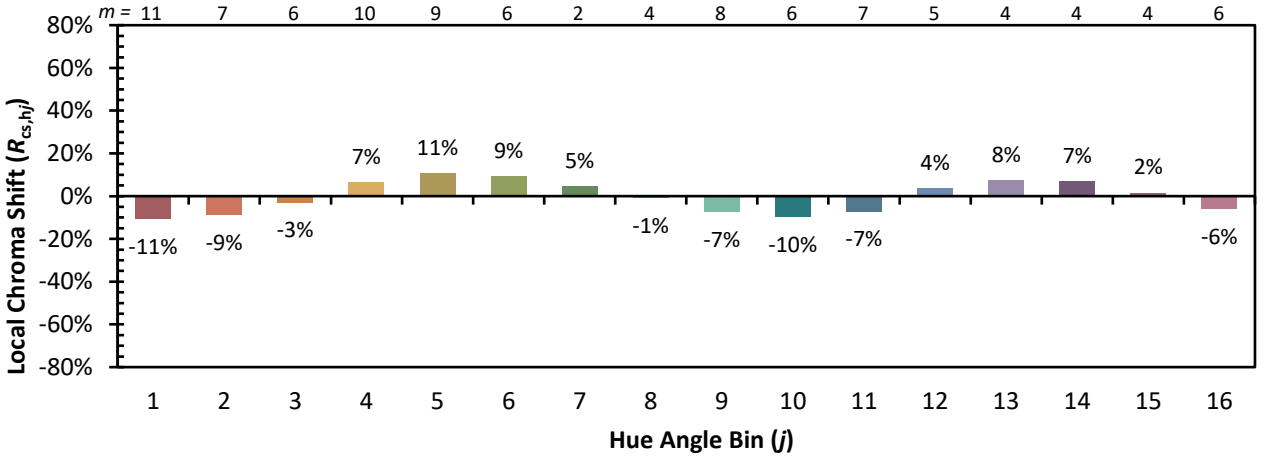
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 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	

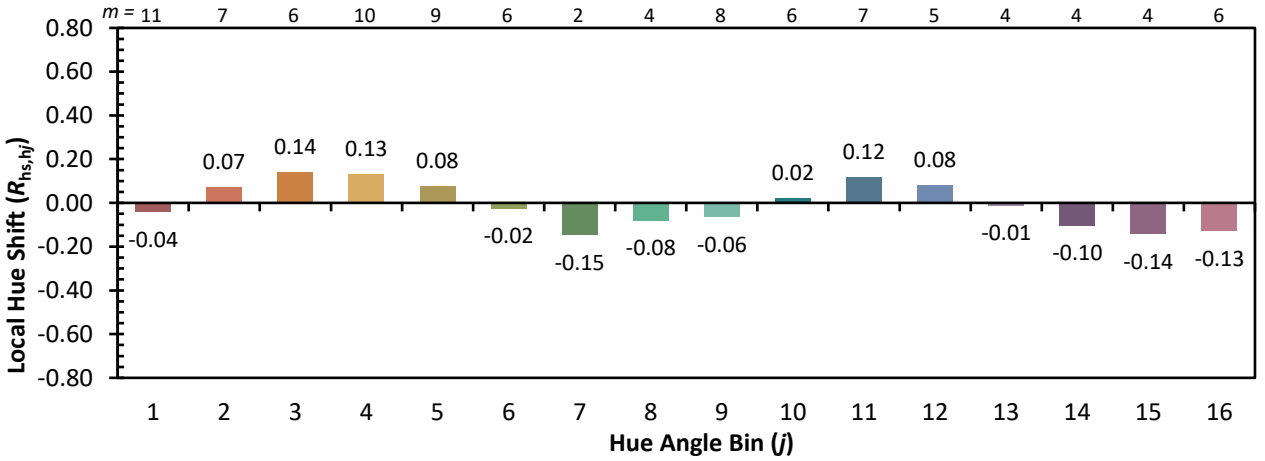


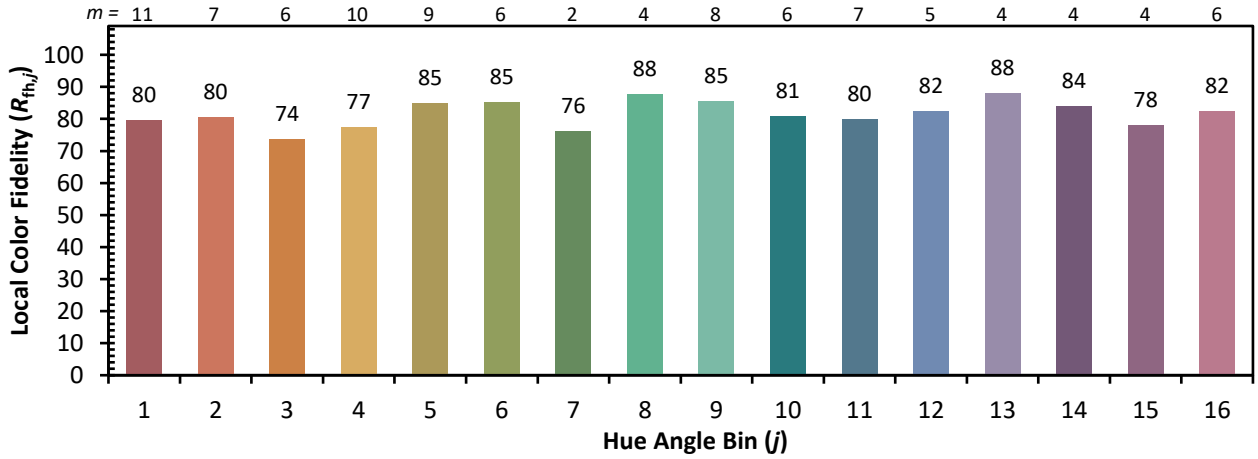
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Color Rendition by Hue-Angle Bin



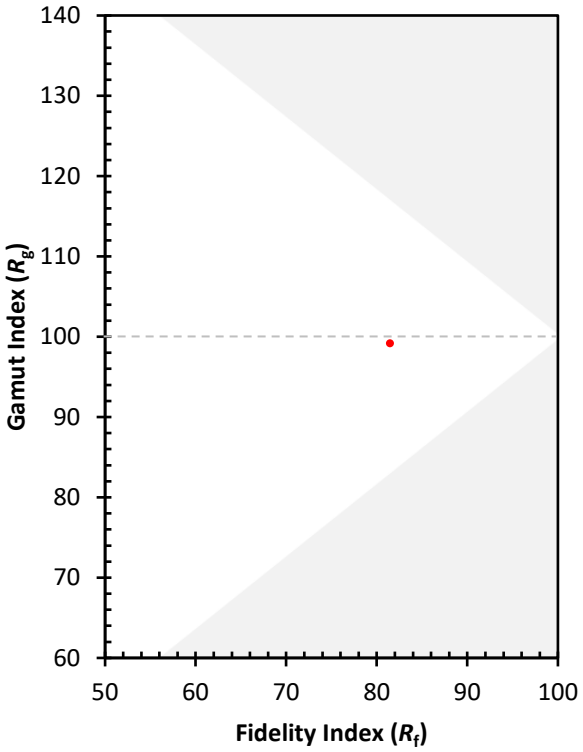


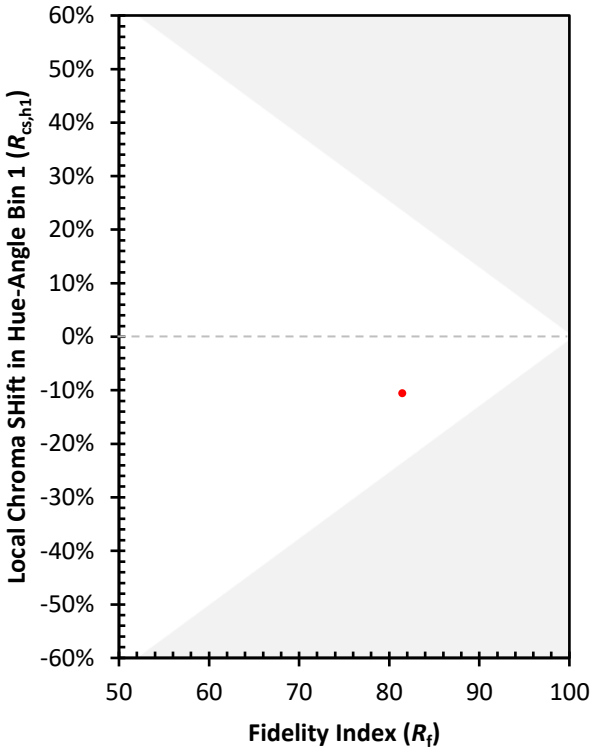


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Measure Comparisons





(END OF REPORT)