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: P1501526

Luminaire Tested: GSS-SB3B-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:	P1501526
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3B-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 109W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14127 lumens
Efficiency:	N/A
Efficacy:	129.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

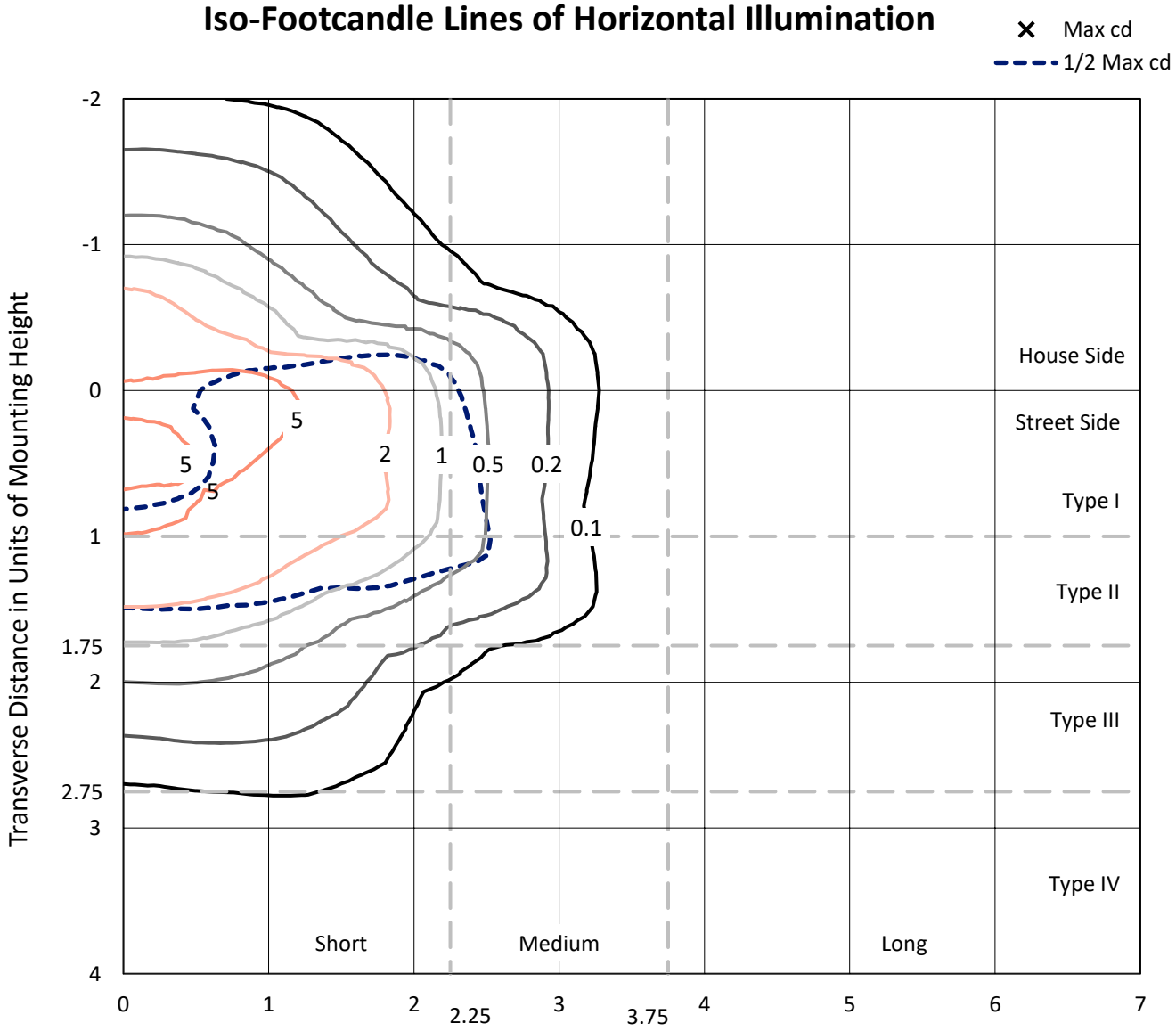
Input Watts (W):	109
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



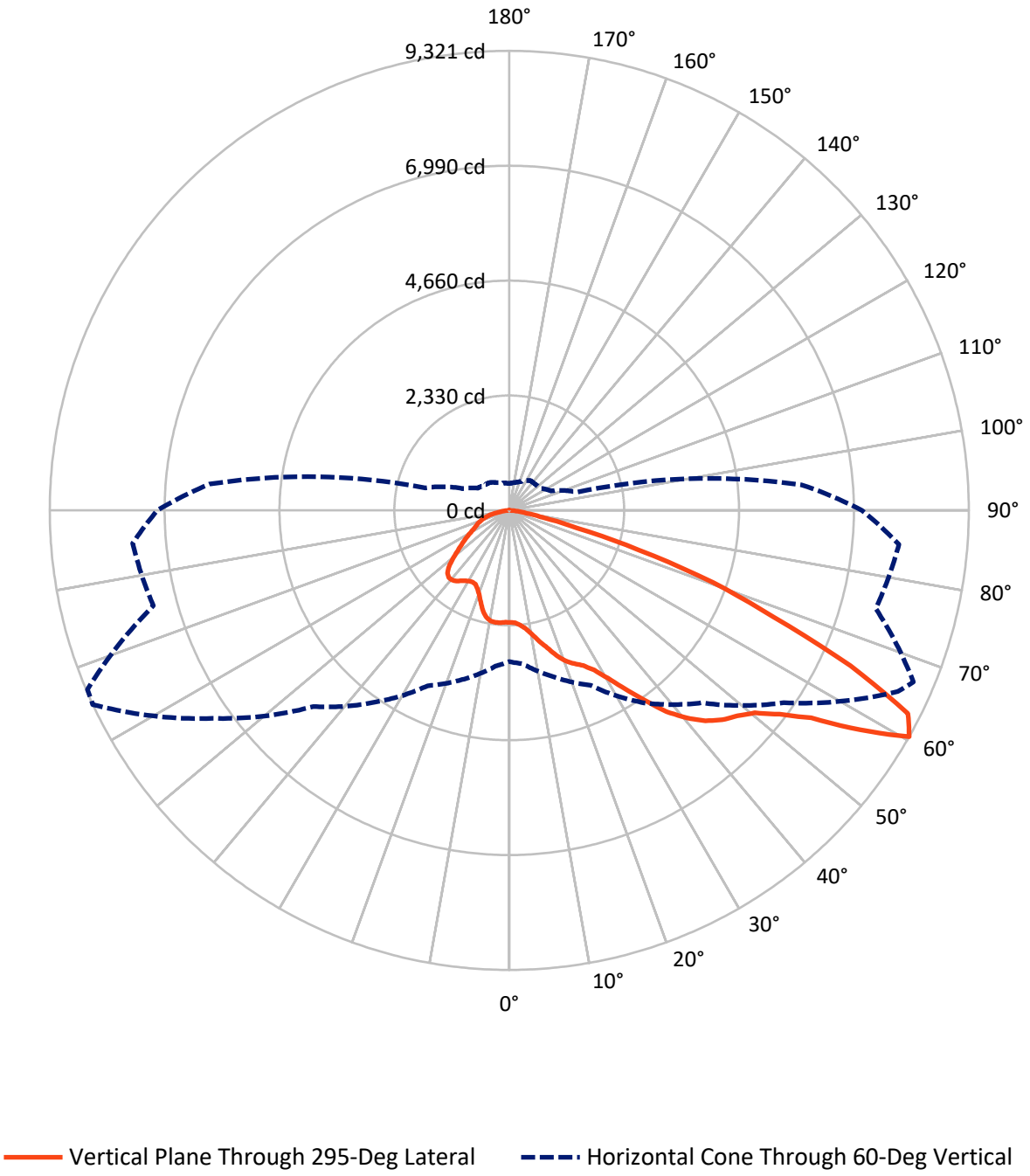
Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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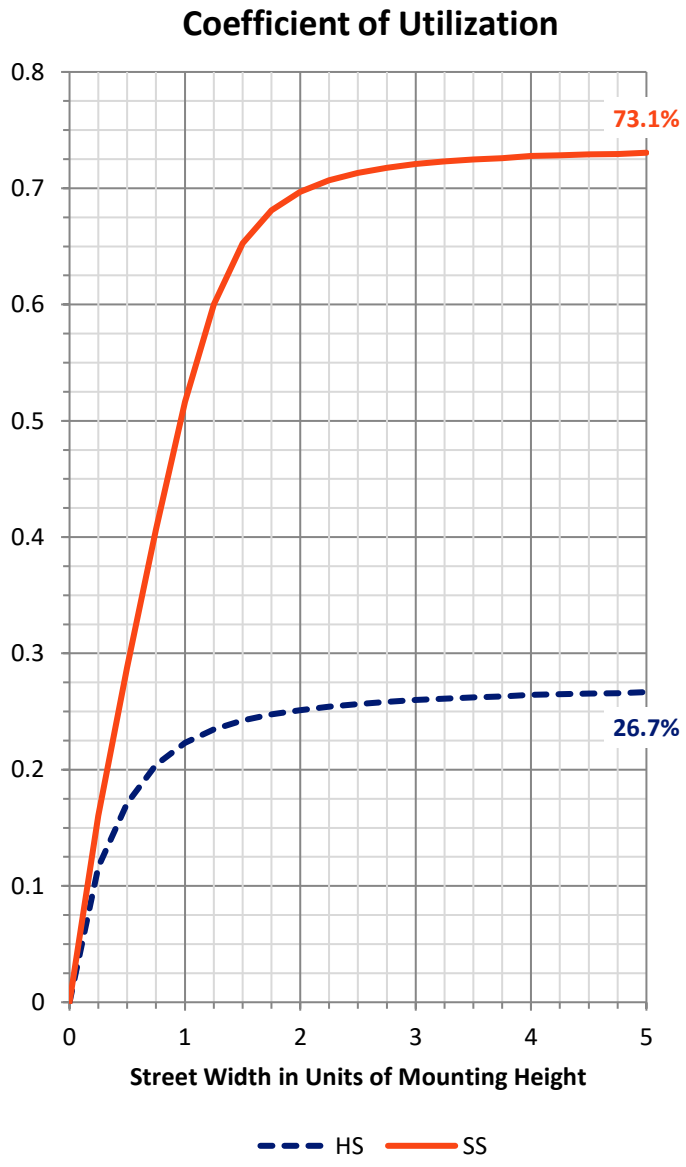
REPORT NUMBER: P1501526
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3798.9	0.0	3798.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10328.1	0.0	10328.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	14127.0	0.0	14127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.5
10°-20°	614.4	4.3
20°-30°	1163.7	8.2
30°-40°	2051.5	14.5
40°-50°	3034.0	21.5
50°-60°	3562.7	25.2
60°-70°	2581.4	18.3
70°-80°	796.1	5.6
80°-90°	109.6	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°	14127.0	100.0
0°-180°	14127.0	100.0



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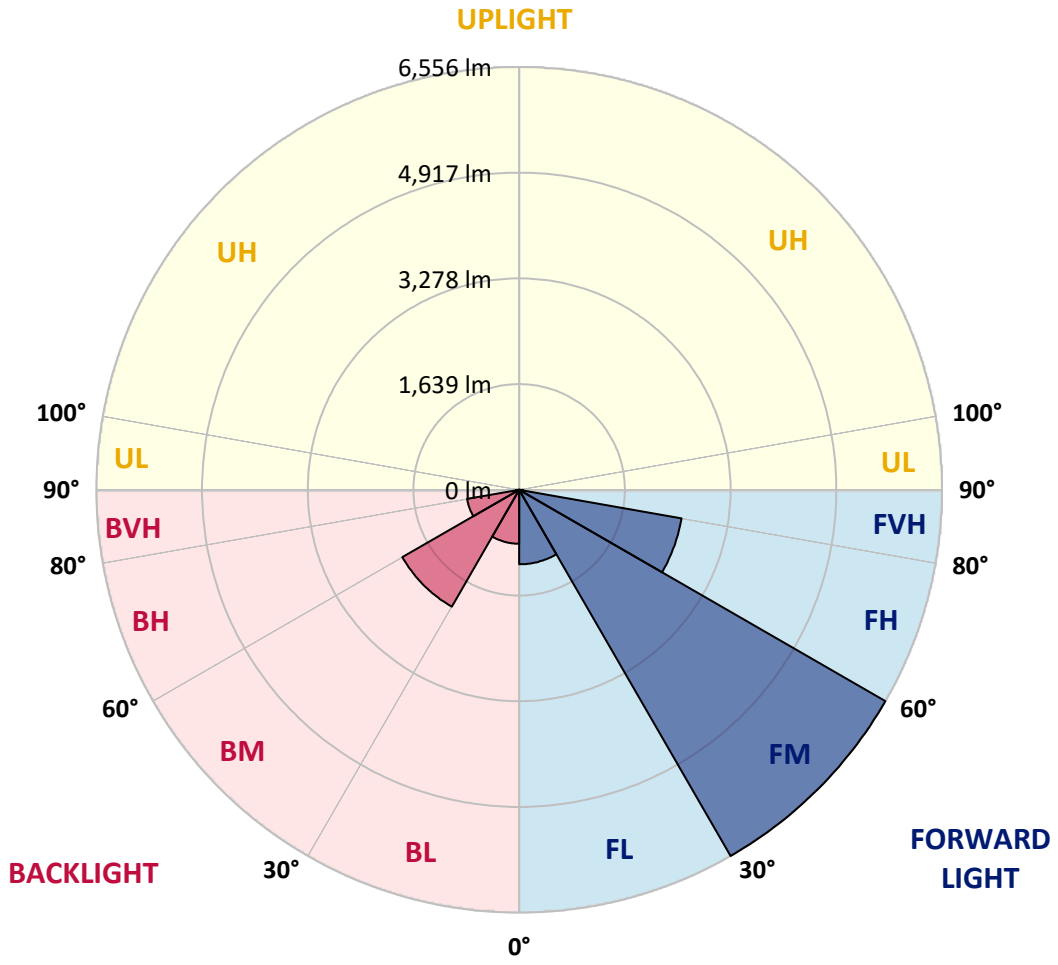
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1155.1	8.2			
FM	(30°-60°)	6556.4	46.4			
FH	(60°-80°)	2557.4	18.1			G2/5000
FVH	(80°-90°)	59.1	0.4			G1/100
BL	(0°-30°)	836.7	5.9	B2/1000		
BM	(30°-60°)	2091.8	14.8	B2/2500		
BH	(60°-80°)	820.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	50.5	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°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2318.0	2324.5	2314.8	2321.3	2321.3	2311.6	2308.4	2295.5	2301.9	2298.7	2295.5
5°	2372.8	2376.0	2369.6	2379.2	2379.2	2382.4	2379.2	2363.1	2363.1	2363.1	2356.7
7.5°	2356.7	2356.7	2359.9	2392.1	2424.3	2466.1	2466.1	2459.7	2466.1	2462.9	2433.9
10°	2221.5	2234.3	2263.3	2343.8	2421.1	2511.2	2572.4	2591.7	2591.7	2594.9	2546.6
12.5°	1980.0	1989.7	2057.3	2179.6	2340.6	2504.8	2652.9	2749.5	2759.1	2775.2	2710.8
15°	1764.3	1770.7	1819.0	1944.6	2128.1	2417.8	2697.9	2897.6	2929.7	2997.4	2900.8
17.5°	1783.6	1780.4	1793.3	1841.6	1973.6	2276.2	2688.3	3071.4	3129.4	3248.5	3164.8
20°	1899.5	1899.5	1909.2	1918.8	1967.1	2173.2	2617.5	3213.1	3325.7	3557.6	3461.0
22.5°	2083.0	2083.0	2079.8	2095.9	2095.9	2218.2	2620.7	3319.3	3486.7	3902.0	3808.7
25°	2337.4	2324.5	2324.5	2330.9	2301.9	2388.9	2701.2	3428.8	3647.7	4310.9	4230.4
27.5°	2623.9	2633.6	2627.1	2604.6	2565.9	2633.6	2894.3	3599.4	3828.0	4742.3	4710.1
30°	2936.2	2939.4	2945.8	2933.0	2900.8	2949.1	3197.0	3857.0	4066.2	5193.1	5263.9
32.5°	3242.0	3287.1	3271.0	3238.8	3251.7	3338.6	3570.4	4204.7	4420.4	5611.6	5862.7
35°	3631.6	3647.7	3712.1	3593.0	3596.2	3744.3	4046.9	4661.8	4871.1	6046.2	6461.5
37.5°	4198.2	4227.2	4198.2	4011.5	3982.5	4188.6	4510.5	5112.6	5263.9	6374.6	7018.5
40°	4755.2	4790.6	4838.9	4620.0	4436.5	4607.1	4948.4	5457.1	5614.8	6554.9	7388.8
42.5°	5215.6	5273.5	5222.0	5157.6	4990.2	5022.4	5254.2	5724.3	5882.0	6783.5	7762.2
45°	5605.2	5614.8	5637.3	5592.3	5508.6	5479.6	5515.0	5959.3	6133.2	6886.5	7945.7
47.5°	5766.1	5808.0	5827.3	5904.6	5991.5	5933.5	5737.2	6068.8	6226.5	6880.1	8003.7
50°	5679.2	5721.1	5824.1	6007.6	6216.9	6319.9	5997.9	6220.1	6397.2	6996.0	8122.8
52.5°	5450.6	5495.7	5663.1	5872.4	6223.3	6458.3	6365.0	6535.6	6706.2	7202.0	8322.4
55°	4896.9	4964.5	5199.5	5547.2	6030.1	6384.3	6751.3	6999.2	7185.9	7449.9	8528.5
57.5°	4092.0	4162.8	4426.8	4948.4	5672.8	6078.4	6864.0	7868.5	7952.2	7746.1	8547.8
60°	*3065.0*	*3122.9*	*3496.4*	*3914.9*	*4764.9*	*5518.2*	*6799.6*	*8692.7*	*8905.1*	*7694.6*	*7932.9*
62.5°	2427.5	2498.3	2829.9	3023.1	3631.6	4558.8	6574.2	8921.2	9104.8	7269.6	7076.5
65°	1896.3	1944.6	2253.7	2530.5	2678.6	3113.3	5634.1	7804.1	7968.3	6577.4	5840.2
67.5°	1252.4	1326.4	1693.5	2073.4	2150.6	1980.0	3876.3	6004.4	6081.6	5228.5	4391.4
70°	898.2	933.7	1207.3	1613.0	1728.9	1326.4	2112.0	4545.9	4568.5	3509.3	2958.7
72.5°	611.7	618.1	821.0	1236.3	1377.9	962.6	1162.2	2994.1	2916.9	1732.1	1693.5
75°	415.3	421.8	524.8	824.2	975.5	669.7	756.6	1632.3	1567.9	956.2	1027.0
77.5°	280.1	286.5	360.6	553.8	650.3	463.6	553.8	862.8	846.7	634.2	550.5
80°	212.5	222.1	267.2	354.1	453.9	270.4	315.5	408.9	415.3	338.0	280.1
82.5°	119.1	132.0	161.0	180.3	293.0	151.3	151.3	244.7	235.0	209.3	151.3
85°	51.5	54.7	64.4	67.6	119.1	64.4	54.7	106.2	109.5	103.0	48.3
87.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	12.9	12.9	12.9	12.9
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°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2279.4	2298.7	2279.4	2269.7	2269.7	2253.7	2247.2	2247.2	2224.7	2234.3	2227.9
5°	2330.9	2337.4	2314.8	2285.8	2247.2	2215.0	2169.9	2112.0	2076.6	2073.4	2076.6
7.5°	2411.4	2414.6	2353.5	2289.1	2192.5	2076.6	1938.1	1825.5	1725.7	1709.6	1728.9
10°	2524.1	2517.7	2427.5	2276.2	2073.4	1828.7	1616.2	1513.2	1455.2	1452.0	1448.8
12.5°	2675.4	2633.6	2495.1	2221.5	1867.3	1584.0	1474.5	1468.1	1484.2	1497.1	1500.3
15°	2849.3	2794.5	2549.8	2115.2	1658.0	1493.8	1500.3	1555.0	1574.3	1587.2	1587.2
17.5°	3065.0	2994.1	2611.0	1963.9	1551.8	1513.2	1558.2	1609.8	1641.9	1654.8	1651.6
20°	3351.5	3203.4	2659.3	1819.0	1522.8	1545.4	1584.0	1635.5	1667.7	1683.8	1683.8
22.5°	3638.0	3454.5	2669.0	1719.2	1522.8	1548.6	1584.0	1635.5	1670.9	1687.0	1683.8
25°	4027.6	3776.5	2672.2	1648.4	1526.0	1532.5	1564.7	1609.8	1661.3	1677.4	1683.8
27.5°	4442.9	4130.6	2688.3	1632.3	1513.2	1509.9	1532.5	1574.3	1625.8	1667.7	1670.9
30°	4958.0	4529.8	2694.7	1648.4	1516.4	1474.5	1490.6	1532.5	1587.2	1629.1	1641.9
32.5°	5463.5	4900.1	2681.8	1683.8	1522.8	1452.0	1455.2	1481.0	1538.9	1567.9	1590.4
35°	5997.9	5292.9	2659.3	1732.1	1526.0	1442.3	1413.4	1426.2	1464.9	1468.1	1477.8
37.5°	6416.5	5585.8	2591.7	1796.5	1532.5	1406.9	1349.0	1339.3	1323.2	1291.0	1297.5
40°	6761.0	5782.2	2479.0	1828.7	1516.4	1365.1	1268.5	1223.4	1162.2	1113.9	1123.6
42.5°	7008.9	5914.2	2343.8	1835.1	1490.6	1294.2	1175.1	1097.9	1030.2	978.7	981.9
45°	7118.3	5901.3	2198.9	1786.8	1429.5	1207.3	1088.2	1014.1	940.1	885.4	878.9
47.5°	7121.5	5775.8	1999.3	1670.9	1326.4	1107.5	1007.7	927.2	866.0	827.4	824.2
50°	7147.3	5705.0	1812.6	1503.5	1191.2	1001.3	936.9	856.4	821.0	766.2	750.1
52.5°	7308.3	5820.9	1683.8	1320.0	1065.7	924.0	875.7	804.9	746.9	711.5	708.3
55°	7569.1	6020.5	1613.0	1181.6	946.5	849.9	817.8	756.6	705.1	669.7	660.0
57.5°	7601.2	6123.5	1529.3	1052.8	849.9	792.0	779.1	711.5	637.5	611.7	602.0
60°	*7150.5*	*5949.6*	*1426.2*	*933.7*	*779.1*	*746.9*	*740.5*	*650.3*	*589.2*	*557.0*	*544.1*
62.5°	6535.6	5515.0	1268.5	824.2	724.4	701.9	676.1	605.3	528.0	492.6	482.9
65°	5341.2	4636.1	1078.5	750.1	669.7	643.9	637.5	540.9	489.4	470.0	466.8
67.5°	4046.9	3725.0	949.8	695.4	611.7	602.0	579.5	547.3	524.8	502.2	495.8
70°	2862.1	2688.3	808.1	624.6	553.8	537.7	631.0	595.6	515.1	486.1	482.9
72.5°	1735.3	1687.0	698.6	560.2	476.5	502.2	582.7	537.7	463.6	428.2	415.3
75°	1094.6	1001.3	585.9	476.5	379.9	408.9	508.7	479.7	399.2	363.8	354.1
77.5°	595.6	553.8	441.1	389.6	299.4	331.6	444.3	396.0	318.7	347.7	309.1
80°	260.8	289.8	293.0	225.4	199.6	244.7	318.7	309.1	244.7	247.9	206.0
82.5°	125.6	164.2	190.0	154.5	112.7	144.9	212.5	177.1	164.2	154.5	148.1
85°	38.6	61.2	83.7	74.0	51.5	61.2	99.8	96.6	115.9	99.8	93.4
87.5°	12.9	12.9	9.7	9.7	9.7	12.9	16.1	9.7	3.2	3.2	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°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2224.7	2227.9	2227.9	2231.1	2231.1	2240.8	2253.7	2266.5	2256.9	2269.7	2273.0
5°	2070.1	2086.2	2099.1	2147.4	2186.0	2218.2	2253.7	2285.8	2295.5	2301.9	2318.0
7.5°	1706.3	1751.4	1835.1	1944.6	2066.9	2186.0	2266.5	2350.2	2363.1	2379.2	2401.7
10°	1452.0	1471.3	1529.3	1641.9	1860.9	2095.9	2292.3	2424.3	2479.0	2511.2	2533.7
12.5°	1493.8	1481.0	1471.3	1487.4	1629.1	1931.7	2276.2	2530.5	2633.6	2669.0	2697.9
15°	1593.7	1580.8	1545.4	1500.3	1516.4	1757.8	2221.5	2630.3	2794.5	2852.5	2913.6
17.5°	1651.6	1638.7	1609.8	1561.5	1519.6	1613.0	2118.4	2720.5	3048.9	3119.7	3206.6
20°	1683.8	1670.9	1641.9	1593.7	1545.4	1558.2	1986.4	2833.2	3338.6	3451.3	3580.1
22.5°	1690.2	1674.1	1641.9	1593.7	1564.7	1555.0	1860.9	2900.8	3650.9	3824.8	3972.9
25°	1687.0	1658.0	1616.2	1580.8	1564.7	1561.5	1773.9	2939.4	3989.0	4265.8	4433.3
27.5°	1664.5	1629.1	1587.2	1561.5	1555.0	1574.3	1735.3	2984.5	4385.0	4739.1	5006.3
30°	1638.7	1587.2	1535.7	1526.0	1542.1	1603.3	1767.5	3000.6	4800.3	5254.2	5527.9
32.5°	1571.1	1532.5	1481.0	1477.8	1516.4	1625.8	1841.6	2978.0	5167.3	5769.3	6113.8
35°	1474.5	1452.0	1423.0	1432.7	1493.8	1645.2	1893.1	2907.2	5502.1	6249.1	6651.5
37.5°	1303.9	1320.0	1336.1	1358.6	1435.9	1641.9	1915.6	2794.5	5779.0	6632.2	7147.3
40°	1113.9	1168.7	1220.2	1278.1	1381.2	1616.2	1922.0	2656.1	5940.0	6921.9	7588.4
42.5°	994.8	1046.3	1110.7	1194.4	1307.1	1558.2	1915.6	2501.6	5991.5	7121.5	7868.5
45°	885.4	946.5	1027.0	1113.9	1242.7	1474.5	1857.7	2334.1	6017.3	7214.9	7987.6
47.5°	827.4	862.8	936.9	1023.8	1159.0	1371.5	1745.0	2211.8	5978.6	7234.2	8132.5
50°	759.8	808.1	856.4	940.1	1072.1	1242.7	1609.8	2141.0	6043.0	7424.2	8361.0
52.5°	708.3	734.0	785.6	862.8	959.4	1123.6	1481.0	2083.0	6220.1	7617.3	8599.3
55°	669.7	698.6	730.8	795.2	869.3	1004.5	1349.0	1996.1	6426.1	7823.4	8837.5
57.5°	608.5	627.8	672.9	740.5	788.8	888.6	1194.4	1893.1	6410.0	7662.4	8425.4
60°	*553.8*	*573.1*	*621.4*	*689.0*	*717.9*	*785.6*	*1043.1*	*1761.1*	*6101.0*	*7137.6*	*7665.6*
62.5°	492.6	515.1	573.1	621.4	647.1	698.6	885.4	1519.6	5457.1	6348.9	6777.1
65°	466.8	479.7	518.3	576.3	573.1	621.4	746.9	1194.4	4391.4	4851.8	5241.4
67.5°	495.8	515.1	508.7	524.8	515.1	540.9	669.7	959.4	3451.3	3654.1	3879.5
70°	489.4	534.4	557.0	524.8	450.7	479.7	579.5	766.2	2469.4	2450.0	2440.4
72.5°	428.2	473.3	537.7	569.9	441.1	399.2	502.2	663.2	1584.0	1577.6	1426.2
75°	363.8	396.0	473.3	515.1	379.9	322.0	431.4	563.4	946.5	959.4	856.4
77.5°	334.8	318.7	396.0	453.9	309.1	247.9	347.7	425.0	521.6	528.0	489.4
80°	241.5	231.8	296.2	331.6	235.0	177.1	196.4	264.0	280.1	251.1	260.8
82.5°	154.5	157.8	177.1	212.5	144.9	96.6	135.2	177.1	151.3	122.3	144.9
85°	99.8	112.7	93.4	109.5	45.1	45.1	58.0	77.3	51.5	35.4	38.6
87.5°	0.0	0.0	6.4	12.9	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: P1501526
CATALOG NUMBER: GSS-SB3B-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2273.0	2273.0	*2273.0*	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2282.6	2279.4	*2279.4*	2285.8	2301.9	2308.4	2318.0	2314.8	2324.5	2318.0
5°	2327.7	2330.9	*2340.6*	2343.8	2353.5	2366.3	2369.6	2366.3	2372.8	2372.8
7.5°	2417.8	2430.7	*2424.3*	2440.4	2427.5	2411.4	2385.7	2366.3	2350.2	2356.7
10°	2569.2	2562.7	*2559.5*	2530.5	2472.6	2388.9	2321.3	2247.2	2234.3	2221.5
12.5°	2736.6	2730.1	*2730.1*	2630.3	2466.1	2292.3	2137.7	2021.8	1983.2	1980.0
15°	2971.6	2929.7	*2891.1*	2681.8	2353.5	2057.3	1877.0	1786.8	1764.3	1764.3
17.5°	3264.6	3155.1	*3090.7*	2643.2	2169.9	1902.7	1796.5	1773.9	1767.5	1783.6
20°	3628.4	3351.5	*3258.1*	2556.3	2102.3	1922.0	1870.5	1873.8	1877.0	1899.5
22.5°	4027.6	3531.8	*3377.3*	2556.3	2169.9	2044.4	2018.6	2054.0	2063.7	2083.0
25°	4471.9	3692.8	*3483.5*	2691.5	2369.6	2276.2	2244.0	2279.4	2305.2	2337.4
27.5°	4970.9	3860.2	*3667.0*	2936.2	2627.1	2569.2	2533.7	2549.8	2585.3	2623.9
30°	5418.4	4140.3	*3947.1*	3309.6	2978.0	2907.2	2846.0	2871.8	2910.4	2936.2
32.5°	5814.4	4481.5	*4317.4*	3702.4	3380.5	3258.1	3190.5	3184.1	3261.4	3242.0
35°	6178.2	4884.0	*4726.2*	4149.9	3789.4	3638.0	3547.9	3663.8	3612.3	3631.6
37.5°	6464.8	5302.5	*5177.0*	4578.1	4214.3	4008.3	3953.5	4095.2	4175.7	4198.2
40°	6699.8	5666.3	*5534.3*	5003.1	4603.9	4452.6	4539.5	4774.5	4764.9	4755.2
42.5°	6880.1	5978.6	*5833.7*	5325.1	4977.4	5006.3	5073.9	5231.7	5270.3	5215.6
45°	6960.6	6175.0	*6059.1*	5579.4	5402.3	5569.7	5598.7	5666.3	5640.6	5605.2
47.5°	7053.9	6348.9	*6226.5*	5811.2	5862.7	6026.9	5969.0	5914.2	5820.9	5766.1
50°	7211.7	6554.9	*6451.9*	6149.2	6336.0	6281.2	6055.9	5933.5	5743.6	5679.2
52.5°	7511.1	6944.5	*6867.2*	6683.7	6558.1	6242.6	5969.0	5750.0	5537.5	5450.6
55°	7778.3	7472.5	*7427.4*	7182.7	6490.5	6039.8	5672.8	5334.7	4970.9	4896.9
57.5°	7932.9	8348.2	*8399.7*	7395.2	6181.4	5579.4	5038.5	4497.6	4153.2	4092.0
60°	*7472.5*	*9294.7*	*9320.5*	*7353.3*	*5624.5*	*4748.8*	*3924.6*	*3541.5*	*3171.2*	*3065.0*
62.5°	6838.2	9098.3	*9075.8*	7102.2	4478.3	3464.2	2981.3	2801.0	2514.4	2427.5
65°	5878.8	7578.7	*7604.5*	6136.4	2978.0	2504.8	2504.8	2276.2	1957.5	1896.3
67.5°	4790.6	5843.4	*5785.4*	3979.3	1828.7	2005.8	2102.3	1773.9	1326.4	1252.4
70°	3113.3	4462.2	*4381.7*	2295.5	1149.4	1670.9	1654.8	1332.9	949.8	898.2
72.5°	1339.3	2578.8	*2743.0*	1171.9	866.0	1345.8	1320.0	933.7	634.2	611.7
75°	808.1	1297.5	*1413.4*	746.9	631.0	1014.1	914.3	592.4	431.4	415.3
77.5°	511.9	711.5	*705.1*	560.2	473.3	685.8	614.9	408.9	293.0	280.1
80°	296.2	350.9	*363.8*	350.9	318.7	489.4	392.8	296.2	228.6	212.5
82.5°	190.0	218.9	*222.1*	170.6	177.1	315.5	212.5	173.9	132.0	119.1
85°	83.7	93.4	*90.1*	58.0	58.0	128.8	74.0	70.8	51.5	51.5
87.5°	3.2	6.4	*3.2*	3.2	3.2	12.9	6.4	9.7	9.7	9.7
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

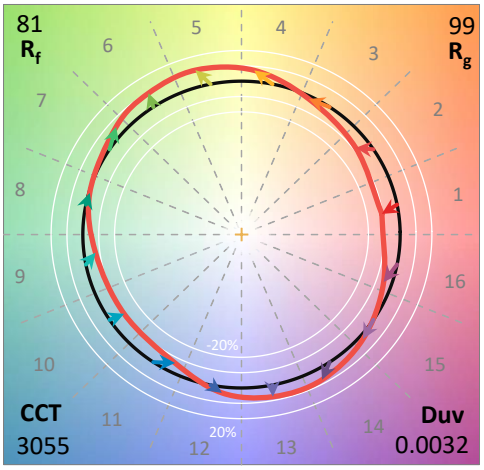
Test Information

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

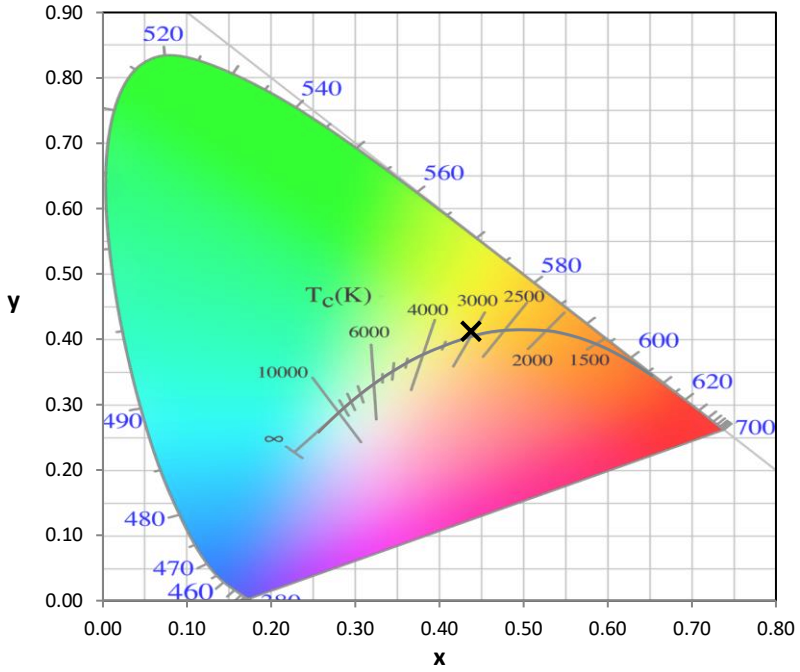
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

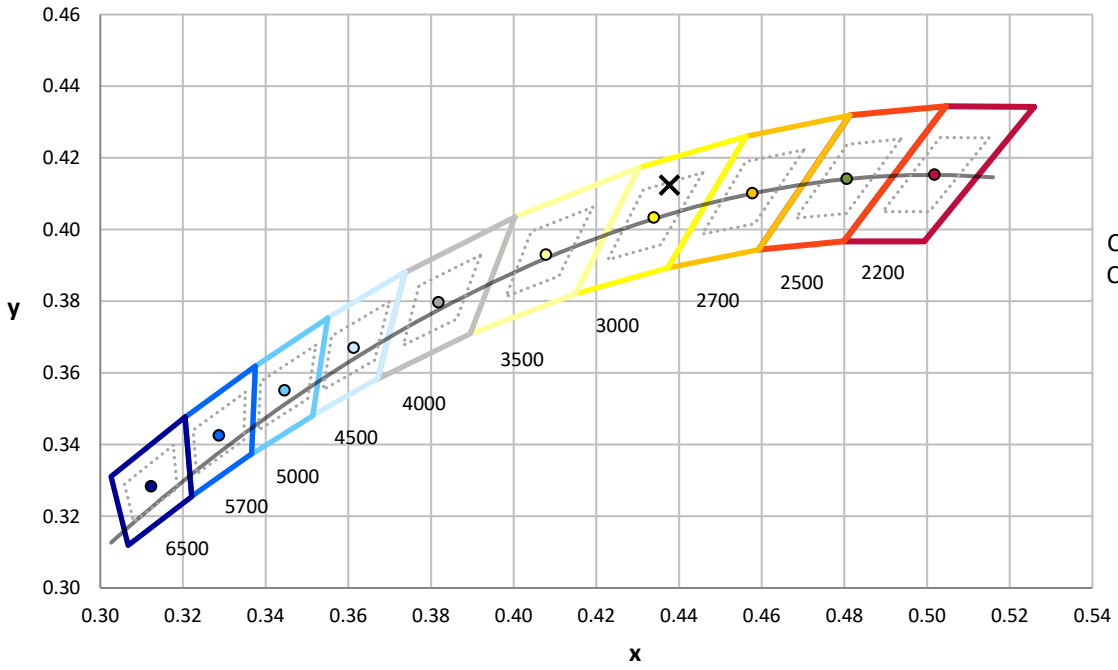
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

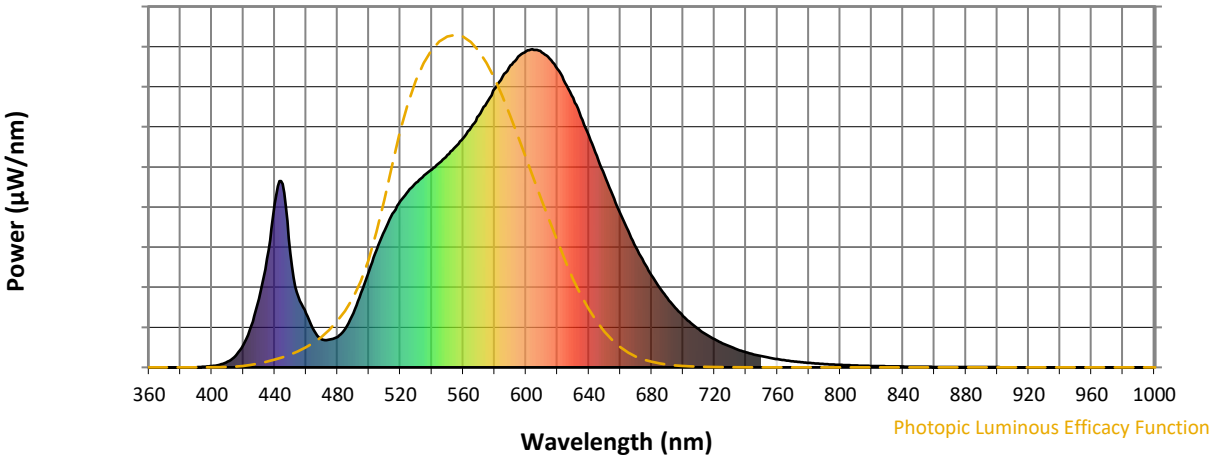


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

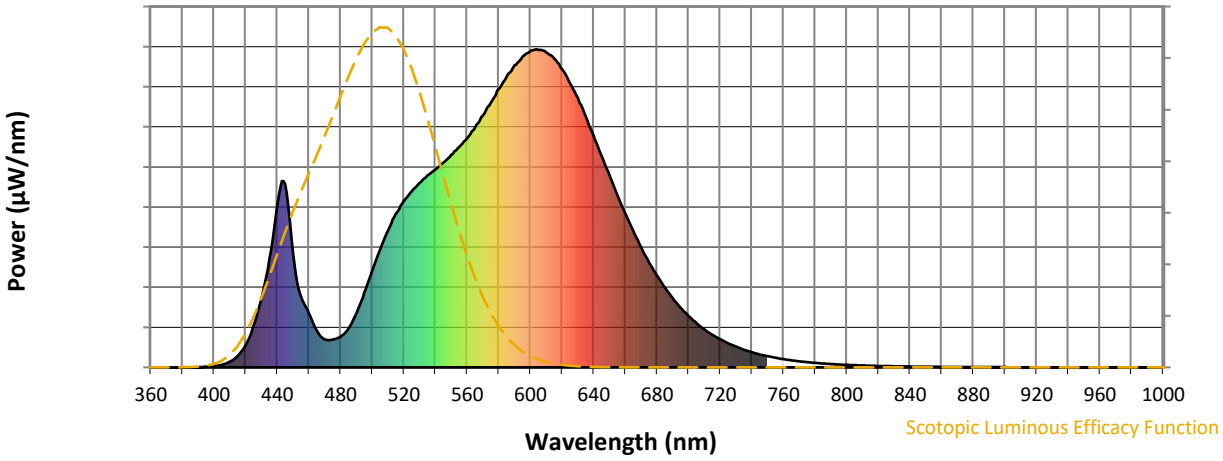


Photopic Lumens: NR

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

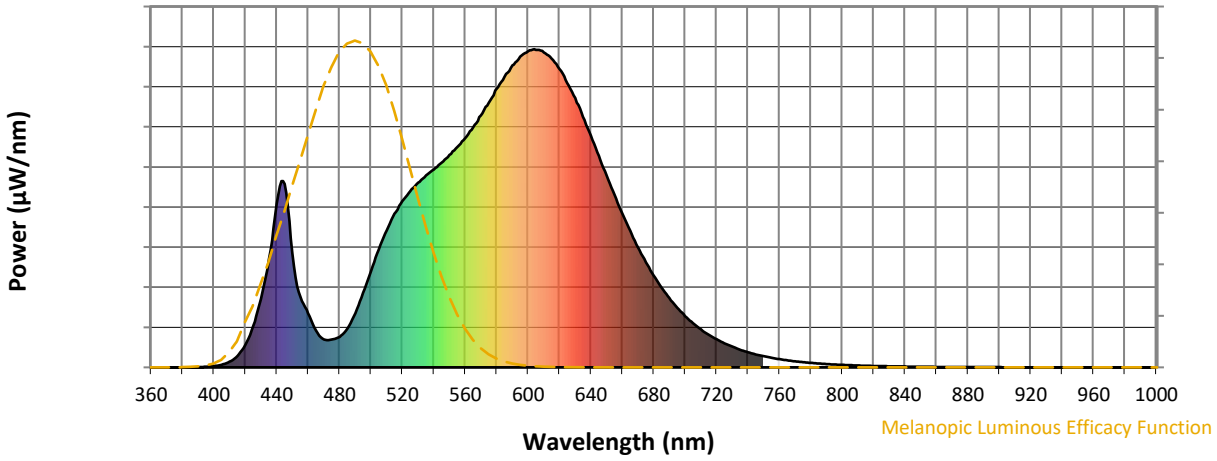


Scotopic Lumens: NR **S/P: 1.28**

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			

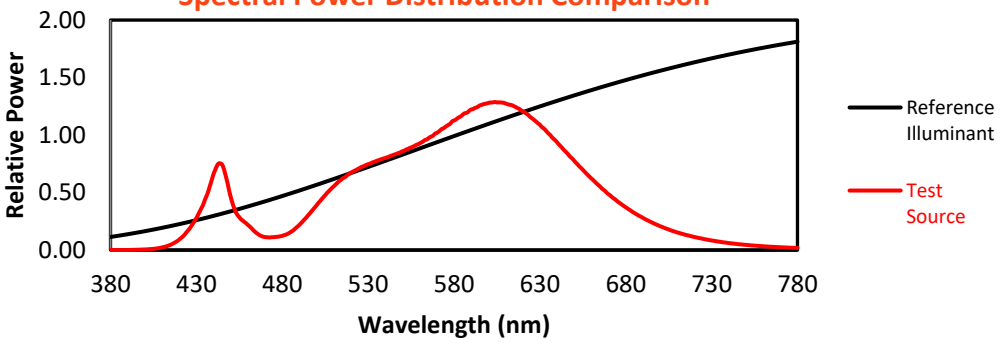
REPORT NUMBER: SP1-2407-184-9

TM-30-18

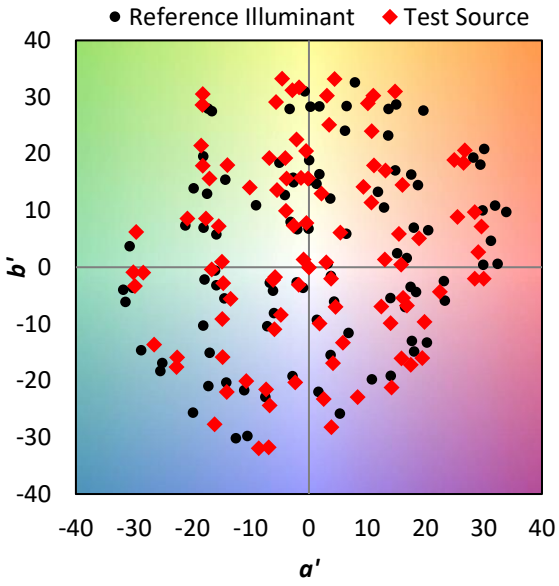
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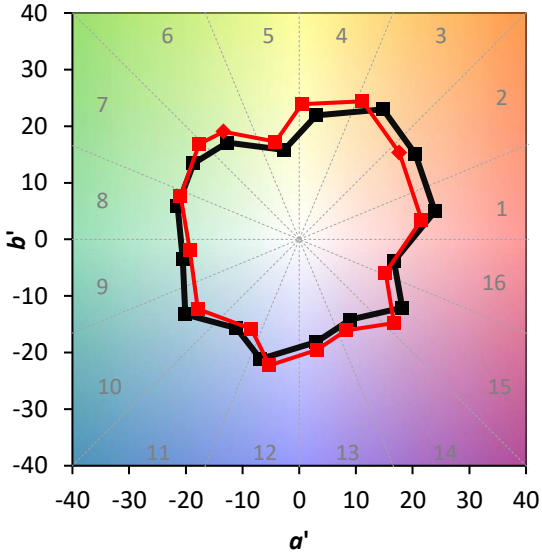
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

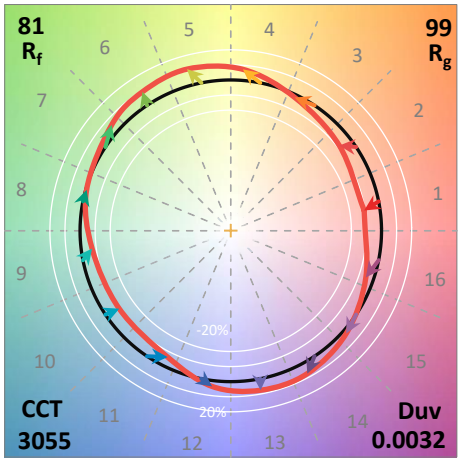
Spectral Power Distribution Comparison

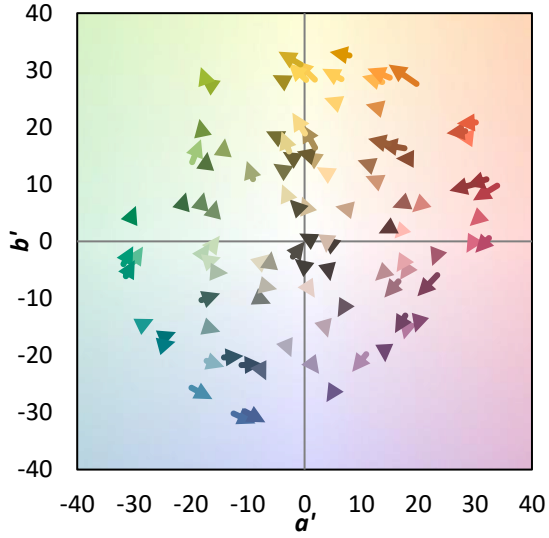


Color Vector Graphics







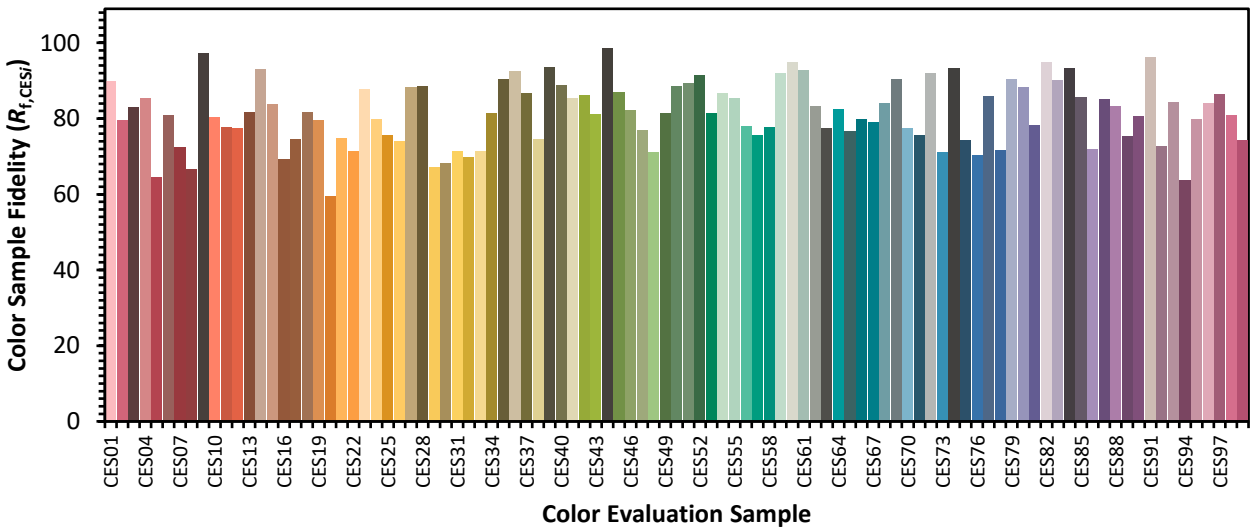


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Individual Sample Fidelity Index ($R_{f,i}$)

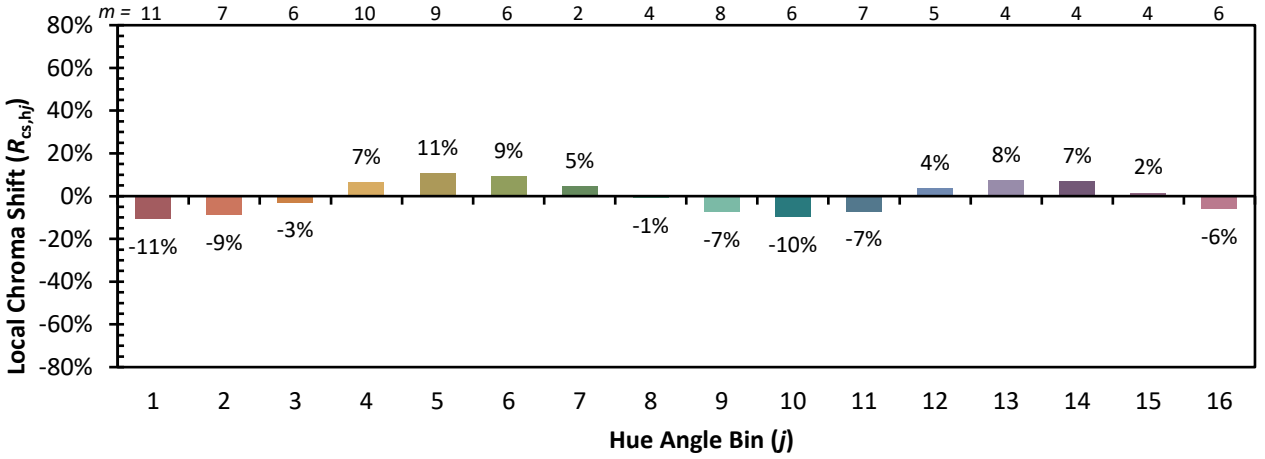
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57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

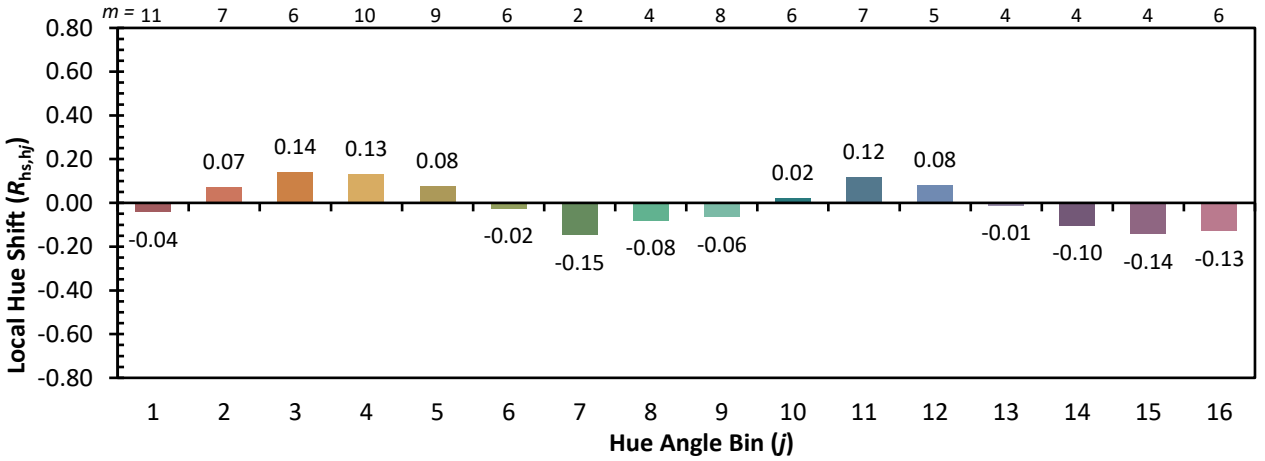


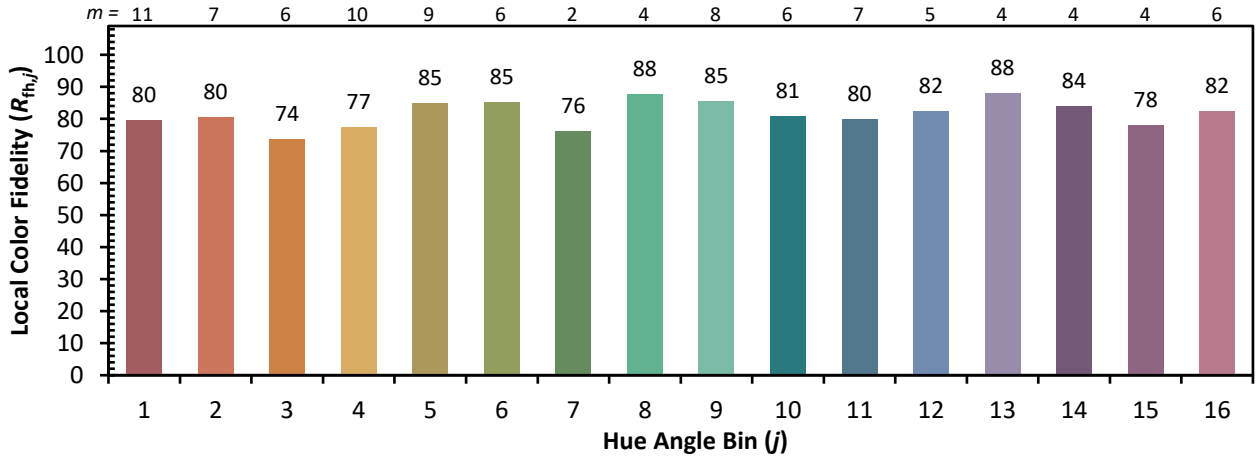
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Color Rendition by Hue-Angle Bin



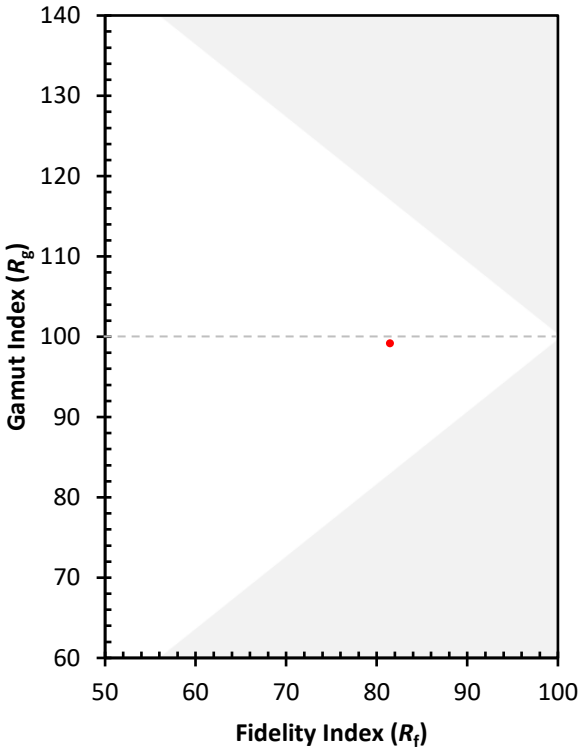


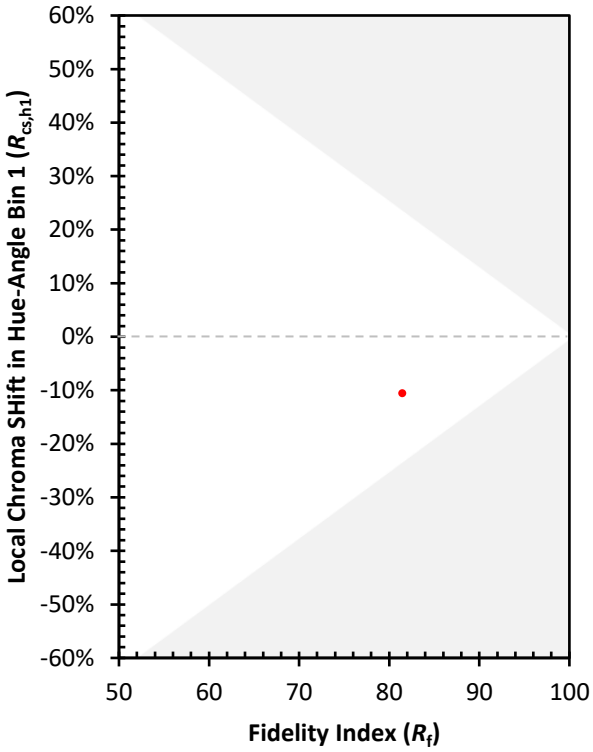


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Measure Comparisons





(END OF REPORT)