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: P1501355

Luminaire Tested: GSS-SB2C-722-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:	P1501355
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-722-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 70CRI 2200K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11376.3 lumens
Efficiency:	N/A
Efficacy:	111.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

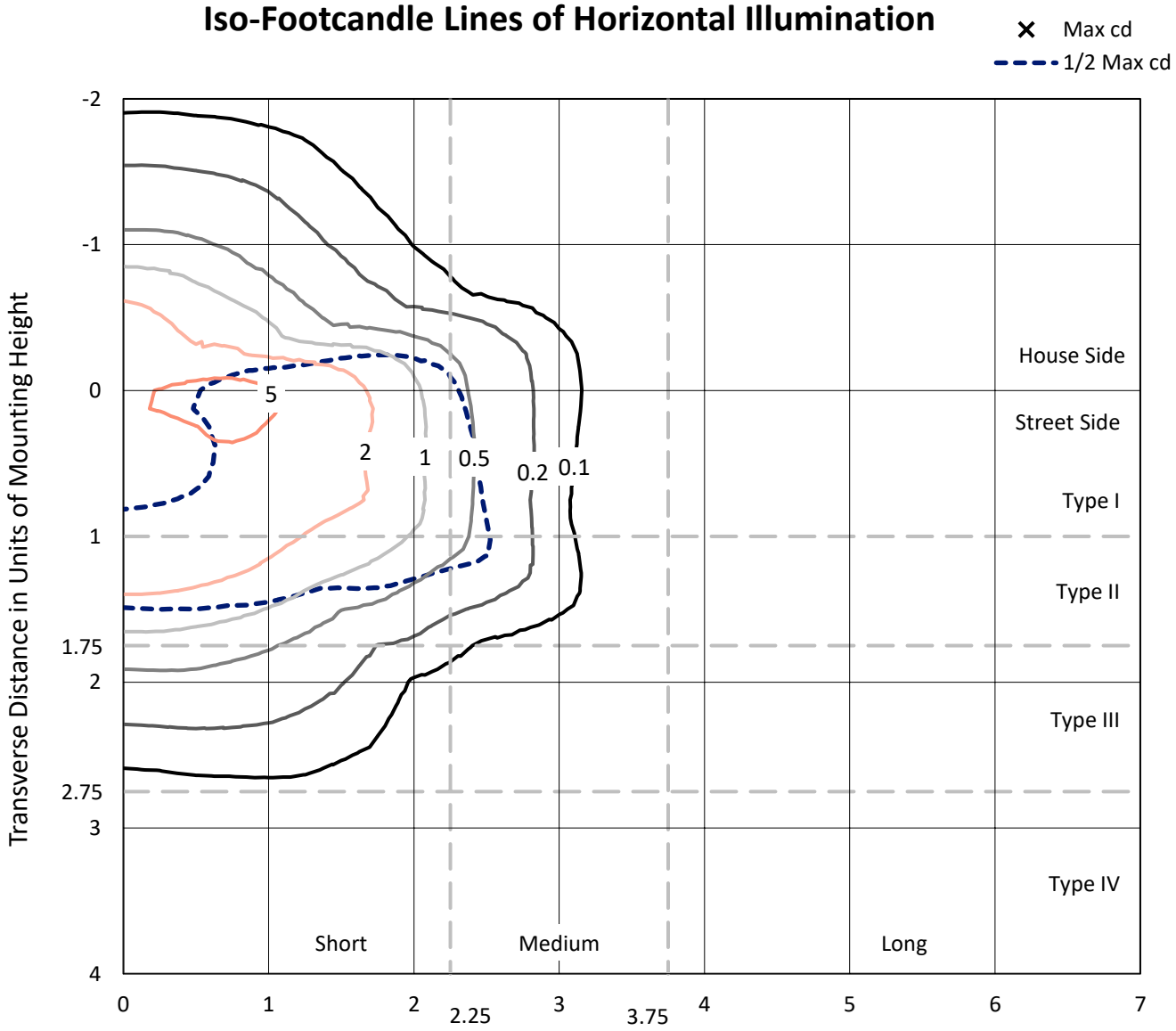
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



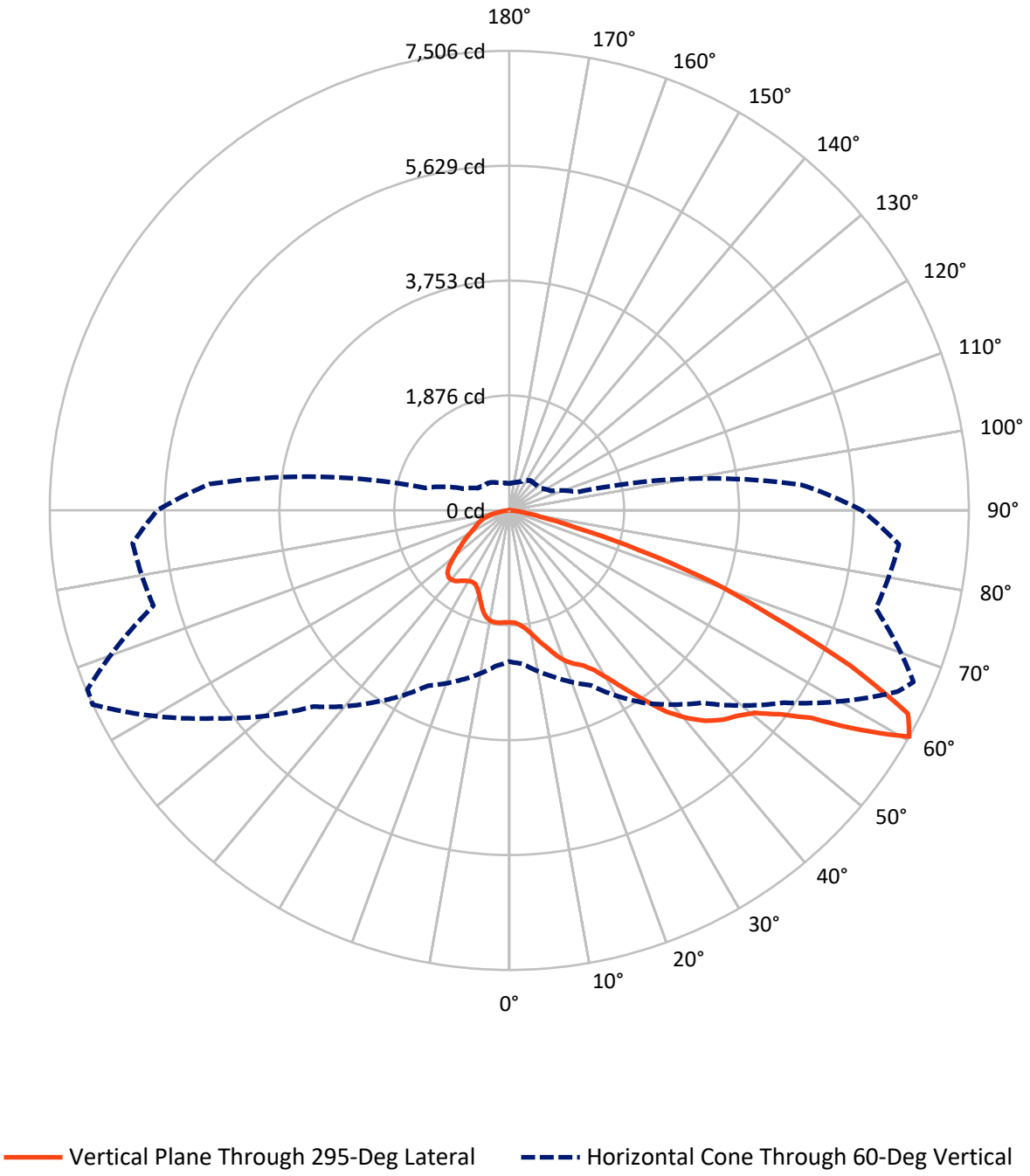
Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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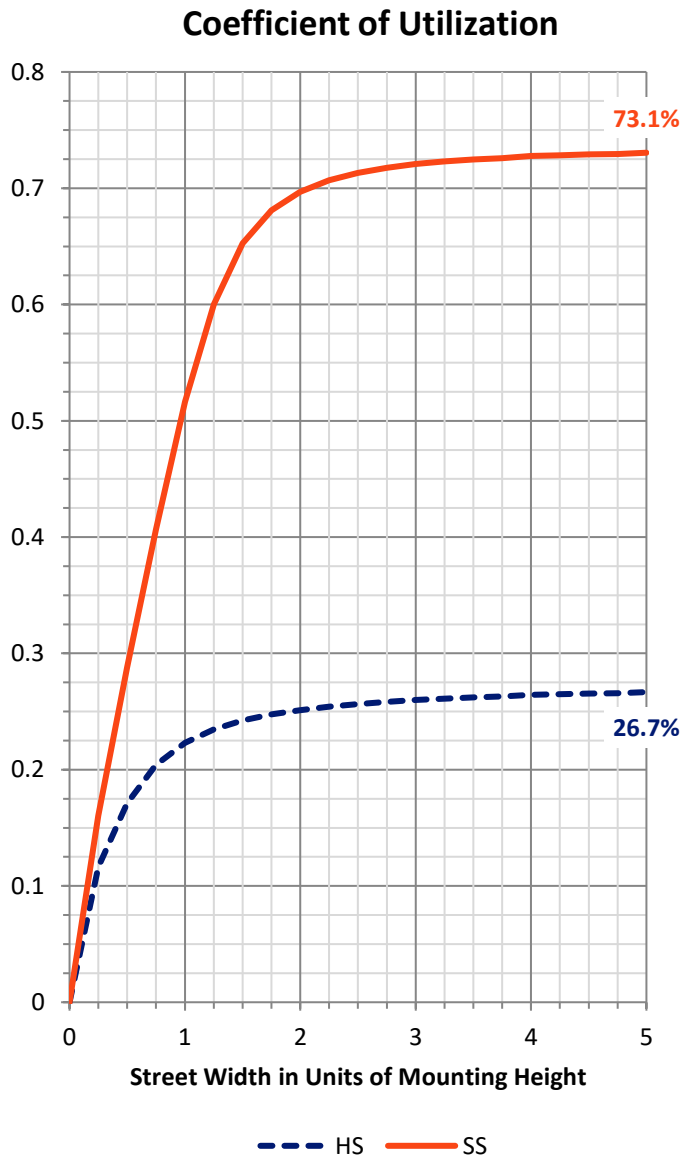
REPORT NUMBER: P1501355
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3059.2	0.0	3059.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8317.1	0.0	8317.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	11376.3	0.0	11376.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	1.5
10°-20°	494.7	4.3
20°-30°	937.1	8.2
30°-40°	1652.1	14.5
40°-50°	2443.2	21.5
50°-60°	2869.0	25.2
60°-70°	2078.7	18.3
70°-80°	641.1	5.6
80°-90°	88.3	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°	11376.3	100.0
0°-180°	11376.3	100.0



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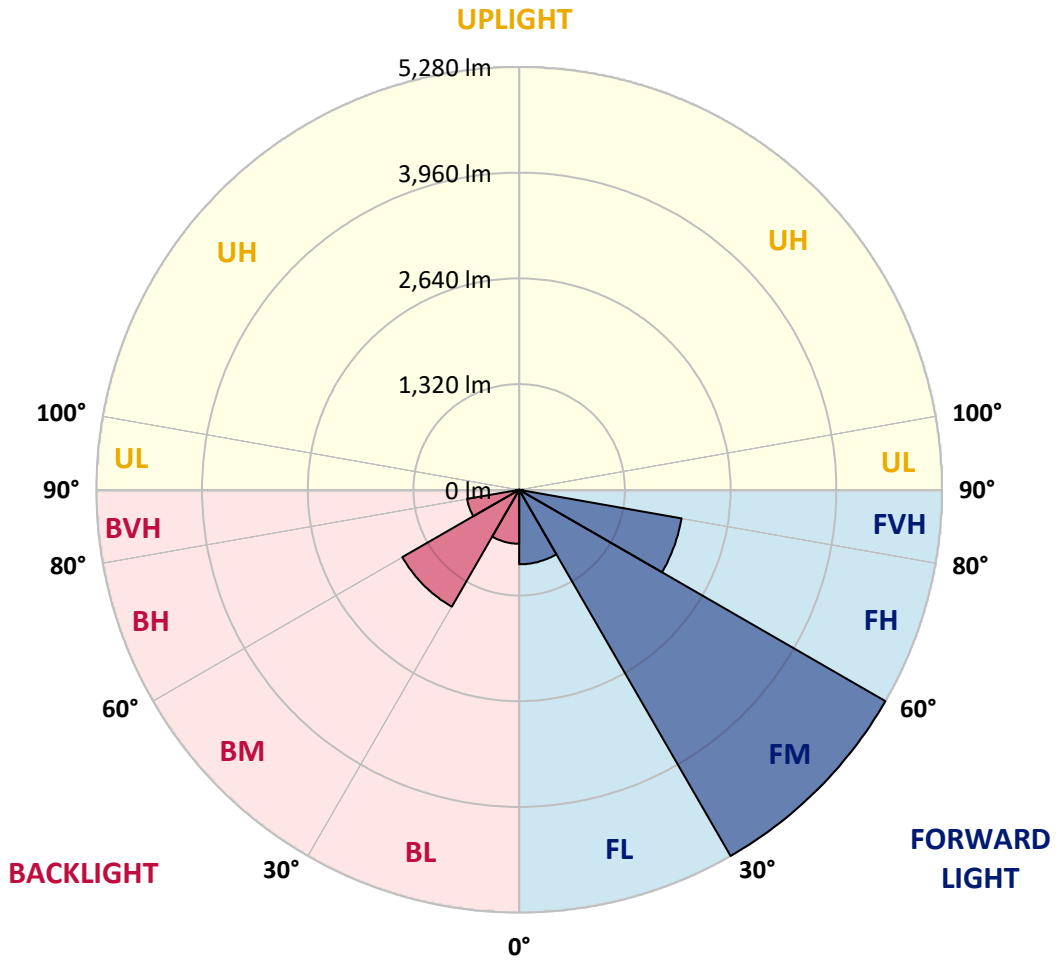
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	930.2	8.2			
FM	(30°-60°)	5279.8	46.4			
FH	(60°-80°)	2059.5	18.1			G2/5000
FVH	(80°-90°)	47.6	0.4			G1/100
BL	(0°-30°)	673.7	5.9	B2/1000		
BM	(30°-60°)	1684.5	14.8	B2/2500		
BH	(60°-80°)	660.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	40.6	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-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1866.7	1871.9	1864.1	1869.3	1869.3	1861.5	1858.9	1848.5	1853.7	1851.1	1848.5
5°	1910.8	1913.4	1908.2	1915.9	1915.9	1918.5	1915.9	1903.0	1903.0	1903.0	1897.8
7.5°	1897.8	1897.8	1900.4	1926.3	1952.2	1985.9	1985.9	1980.8	1985.9	1983.4	1960.0
10°	1788.9	1799.3	1822.6	1887.4	1949.6	2022.2	2071.5	2087.1	2087.1	2089.7	2050.8
12.5°	1594.5	1602.2	1656.7	1755.2	1884.8	2017.1	2136.3	2214.1	2221.9	2234.8	2183.0
15°	1420.8	1425.9	1464.8	1565.9	1713.7	1947.1	2172.6	2333.4	2359.3	2413.7	2335.9
17.5°	1436.3	1433.7	1444.1	1483.0	1589.3	1833.0	2164.8	2473.4	2520.0	2616.0	2548.5
20°	1529.6	1529.6	1537.4	1545.2	1584.1	1750.0	2107.8	2587.4	2678.2	2864.8	2787.1
22.5°	1677.4	1677.4	1674.8	1687.8	1687.8	1786.3	2110.4	2673.0	2807.8	3142.3	3067.1
25°	1882.2	1871.9	1871.9	1877.1	1853.7	1923.7	2175.2	2761.1	2937.4	3471.5	3406.7
27.5°	2113.0	2120.8	2115.6	2097.4	2066.3	2120.8	2330.8	2898.5	3082.6	3818.9	3793.0
30°	2364.5	2367.1	2372.2	2361.9	2335.9	2374.8	2574.5	3106.0	3274.5	4181.9	4238.9
32.5°	2610.8	2647.1	2634.1	2608.2	2618.5	2688.5	2875.2	3386.0	3559.7	4518.9	4721.2
35°	2924.5	2937.4	2989.3	2893.4	2896.0	3015.2	3258.9	3754.1	3922.6	4868.9	5203.4
37.5°	3380.8	3404.1	3380.8	3230.4	3207.1	3373.0	3632.3	4117.1	4238.9	5133.4	5651.9
40°	3829.3	3857.8	3896.7	3720.4	3572.6	3710.0	3984.9	4394.5	4521.5	5278.6	5950.1
42.5°	4200.0	4246.7	4205.2	4153.4	4018.6	4044.5	4231.2	4609.7	4736.7	5462.6	6250.8
45°	4513.8	4521.5	4539.7	4503.4	4436.0	4412.6	4441.2	4798.9	4938.9	5545.6	6398.6
47.5°	4643.4	4677.1	4692.6	4754.9	4824.9	4778.2	4620.0	4887.1	5014.1	5540.4	6445.3
50°	4573.4	4607.1	4690.0	4837.8	5006.3	5089.3	4830.0	5008.9	5151.5	5633.8	6541.2
52.5°	4389.3	4425.6	4560.4	4728.9	5011.5	5200.8	5125.6	5263.0	5400.4	5799.7	6701.9
55°	3943.4	3997.8	4187.1	4467.1	4856.0	5141.2	5436.7	5636.4	5786.7	5999.3	6867.8
57.5°	3295.2	3352.3	3564.9	3984.9	4568.2	4894.9	5527.5	6336.4	6403.8	6237.8	6883.4
60°	*2468.2*	*2514.8*	*2815.6*	*3152.6*	*3837.1*	*4443.7*	*5475.6*	*7000.1*	*7171.2*	*6196.4*	*6388.2*
62.5°	1954.8	2011.9	2278.9	2434.5	2924.5	3671.1	5294.1	7184.1	7331.9	5854.1	5698.6
65°	1527.1	1565.9	1814.8	2037.8	2157.1	2507.1	4537.1	6284.5	6416.7	5296.7	4703.0
67.5°	1008.5	1068.2	1363.7	1669.6	1731.9	1594.5	3121.5	4835.2	4897.5	4210.4	3536.3
70°	723.3	751.9	972.2	1298.9	1392.2	1068.2	1700.8	3660.8	3678.9	2826.0	2382.6
72.5°	492.6	497.8	661.1	995.6	1109.6	775.2	935.9	2411.1	2348.9	1394.8	1363.7
75°	334.4	339.6	422.6	663.7	785.6	539.3	609.3	1314.5	1262.6	770.0	827.0
77.5°	225.6	230.7	290.4	445.9	523.7	373.3	445.9	694.8	681.9	510.7	443.3
80°	171.1	178.9	215.2	285.2	365.6	217.8	254.1	329.3	334.4	272.2	225.6
82.5°	95.9	106.3	129.6	145.2	235.9	121.9	121.9	197.0	189.3	168.5	121.9
85°	41.5	44.1	51.9	54.4	95.9	51.9	44.1	85.6	88.1	83.0	38.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	10.4
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°	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1835.6	1851.1	1835.6	1827.8	1827.8	1814.8	1809.6	1809.6	1791.5	1799.3	1794.1
5°	1877.1	1882.2	1864.1	1840.8	1809.6	1783.7	1747.4	1700.8	1672.2	1669.6	1672.2
7.5°	1941.9	1944.5	1895.2	1843.4	1765.6	1672.2	1560.8	1470.0	1389.6	1376.7	1392.2
10°	2032.6	2027.4	1954.8	1833.0	1669.6	1472.6	1301.5	1218.5	1171.9	1169.3	1166.7
12.5°	2154.5	2120.8	2009.3	1788.9	1503.7	1275.6	1187.4	1182.2	1195.2	1205.6	1208.2
15°	2294.5	2250.4	2053.4	1703.4	1335.2	1203.0	1208.2	1252.2	1267.8	1278.2	1278.2
17.5°	2468.2	2411.1	2102.6	1581.5	1249.6	1218.5	1254.8	1296.3	1322.2	1332.6	1330.0
20°	2698.9	2579.7	2141.5	1464.8	1226.3	1244.5	1275.6	1317.1	1343.0	1355.9	1355.9
22.5°	2929.7	2781.9	2149.3	1384.5	1226.3	1247.0	1275.6	1317.1	1345.6	1358.5	1355.9
25°	3243.4	3041.1	2151.9	1327.4	1228.9	1234.1	1260.0	1296.3	1337.8	1350.8	1355.9
27.5°	3577.8	3326.3	2164.8	1314.5	1218.5	1215.9	1234.1	1267.8	1309.3	1343.0	1345.6
30°	3992.6	3647.8	2170.0	1327.4	1221.1	1187.4	1200.4	1234.1	1278.2	1311.9	1322.2
32.5°	4399.7	3946.0	2159.7	1355.9	1226.3	1169.3	1171.9	1192.6	1239.3	1262.6	1280.8
35°	4830.0	4262.3	2141.5	1394.8	1228.9	1161.5	1138.2	1148.5	1179.6	1182.2	1190.0
37.5°	5167.1	4498.2	2087.1	1446.7	1234.1	1133.0	1086.3	1078.5	1065.6	1039.6	1044.8
40°	5444.5	4656.3	1996.3	1472.6	1221.1	1099.3	1021.5	985.2	935.9	897.0	904.8
42.5°	5644.1	4762.6	1887.4	1477.8	1200.4	1042.2	946.3	884.1	829.6	788.2	790.7
45°	5732.3	4752.3	1770.8	1438.9	1151.1	972.2	876.3	816.7	757.0	713.0	707.8
47.5°	5734.9	4651.2	1610.0	1345.6	1068.2	891.9	811.5	746.7	697.4	666.3	663.7
50°	5755.6	4594.1	1459.6	1210.8	959.3	806.3	754.5	689.6	661.1	617.0	604.1
52.5°	5885.2	4687.5	1355.9	1063.0	858.2	744.1	705.2	648.2	601.5	573.0	570.4
55°	6095.2	4848.2	1298.9	951.5	762.2	684.5	658.5	609.3	567.8	539.3	531.5
57.5°	6121.2	4931.2	1231.5	847.8	684.5	637.8	627.4	573.0	513.3	492.6	484.8
60°	*5758.2*	*4791.2*	*1148.5*	*751.9*	*627.4*	*601.5*	*596.3*	*523.7*	*474.4*	*448.5*	*438.2*
62.5°	5263.0	4441.2	1021.5	663.7	583.3	565.2	544.5	487.4	425.2	396.7	388.9
65°	4301.2	3733.4	868.5	604.1	539.3	518.5	513.3	435.6	394.1	378.5	375.9
67.5°	3258.9	2999.7	764.8	560.0	492.6	484.8	466.7	440.7	422.6	404.4	399.3
70°	2304.8	2164.8	650.7	503.0	445.9	433.0	508.2	479.6	414.8	391.5	388.9
72.5°	1397.4	1358.5	562.6	451.1	383.7	404.4	469.3	433.0	373.3	344.8	334.4
75°	881.5	806.3	471.9	383.7	305.9	329.3	409.6	386.3	321.5	293.0	285.2
77.5°	479.6	445.9	355.2	313.7	241.1	267.0	357.8	318.9	256.7	280.0	248.9
80°	210.0	233.3	235.9	181.5	160.7	197.0	256.7	248.9	197.0	199.6	165.9
82.5°	101.1	132.2	153.0	124.4	90.7	116.7	171.1	142.6	132.2	124.4	119.3
85°	31.1	49.3	67.4	59.6	41.5	49.3	80.4	77.8	93.3	80.4	75.2
87.5°	10.4	10.4	7.8	7.8	7.8	10.4	13.0	7.8	2.6	2.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1791.5	1794.1	1794.1	1796.7	1796.7	1804.5	1814.8	1825.2	1817.4	1827.8	1830.4
5°	1667.1	1680.0	1690.4	1729.3	1760.4	1786.3	1814.8	1840.8	1848.5	1853.7	1866.7
7.5°	1374.1	1410.4	1477.8	1565.9	1664.5	1760.4	1825.2	1892.6	1903.0	1915.9	1934.1
10°	1169.3	1184.8	1231.5	1322.2	1498.5	1687.8	1845.9	1952.2	1996.3	2022.2	2040.4
12.5°	1203.0	1192.6	1184.8	1197.8	1311.9	1555.6	1833.0	2037.8	2120.8	2149.3	2172.6
15°	1283.3	1273.0	1244.5	1208.2	1221.1	1415.6	1788.9	2118.2	2250.4	2297.1	2346.3
17.5°	1330.0	1319.6	1296.3	1257.4	1223.7	1298.9	1705.9	2190.8	2455.2	2512.2	2582.2
20°	1355.9	1345.6	1322.2	1283.3	1244.5	1254.8	1599.6	2281.5	2688.5	2779.3	2883.0
22.5°	1361.1	1348.2	1322.2	1283.3	1260.0	1252.2	1498.5	2335.9	2940.0	3080.0	3199.3
25°	1358.5	1335.2	1301.5	1273.0	1260.0	1257.4	1428.5	2367.1	3212.3	3435.2	3570.0
27.5°	1340.4	1311.9	1278.2	1257.4	1252.2	1267.8	1397.4	2403.4	3531.1	3816.3	4031.5
30°	1319.6	1278.2	1236.7	1228.9	1241.9	1291.1	1423.3	2416.3	3865.6	4231.2	4451.5
32.5°	1265.2	1234.1	1192.6	1190.0	1221.1	1309.3	1483.0	2398.2	4161.2	4646.0	4923.4
35°	1187.4	1169.3	1145.9	1153.7	1203.0	1324.8	1524.5	2341.1	4430.8	5032.3	5356.4
37.5°	1050.0	1063.0	1075.9	1094.1	1156.3	1322.2	1542.6	2250.4	4653.8	5340.8	5755.6
40°	897.0	941.1	982.6	1029.3	1112.2	1301.5	1547.8	2138.9	4783.4	5574.1	6110.8
42.5°	801.1	842.6	894.5	961.9	1052.6	1254.8	1542.6	2014.5	4824.9	5734.9	6336.4
45°	713.0	762.2	827.0	897.0	1000.8	1187.4	1495.9	1879.6	4845.6	5810.1	6432.3
47.5°	666.3	694.8	754.5	824.5	933.3	1104.5	1405.2	1781.1	4814.5	5825.6	6549.0
50°	611.9	650.7	689.6	757.0	863.3	1000.8	1296.3	1724.1	4866.3	5978.6	6733.0
52.5°	570.4	591.1	632.6	694.8	772.6	904.8	1192.6	1677.4	5008.9	6134.1	6924.9
55°	539.3	562.6	588.5	640.4	700.0	808.9	1086.3	1607.4	5174.9	6300.1	7116.7
57.5°	490.0	505.6	541.9	596.3	635.2	715.6	961.9	1524.5	5161.9	6170.4	6784.9
60°	*445.9*	*461.5*	*500.4*	*554.8*	*578.2*	*632.6*	*840.0*	*1418.2*	*4913.0*	*5747.8*	*6173.0*
62.5°	396.7	414.8	461.5	500.4	521.1	562.6	713.0	1223.7	4394.5	5112.6	5457.5
65°	375.9	386.3	417.4	464.1	461.5	500.4	601.5	961.9	3536.3	3907.1	4220.8
67.5°	399.3	414.8	409.6	422.6	414.8	435.6	539.3	772.6	2779.3	2942.6	3124.1
70°	394.1	430.4	448.5	422.6	363.0	386.3	466.7	617.0	1988.5	1973.0	1965.2
72.5°	344.8	381.1	433.0	458.9	355.2	321.5	404.4	534.1	1275.6	1270.4	1148.5
75°	293.0	318.9	381.1	414.8	305.9	259.3	347.4	453.7	762.2	772.6	689.6
77.5°	269.6	256.7	318.9	365.6	248.9	199.6	280.0	342.2	420.0	425.2	394.1
80°	194.4	186.7	238.5	267.0	189.3	142.6	158.1	212.6	225.6	202.2	210.0
82.5°	124.4	127.0	142.6	171.1	116.7	77.8	108.9	142.6	121.9	98.5	116.7
85°	80.4	90.7	75.2	88.1	36.3	36.3	46.7	62.2	41.5	28.5	31.1
87.5°	0.0	0.0	5.2	10.4	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: P1501355
CATALOG NUMBER: GSS-SB2C-722-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1830.4	1830.4	*1830.4*	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1838.2	1835.6	*1835.6*	1840.8	1853.7	1858.9	1866.7	1864.1	1871.9	1866.7
5°	1874.5	1877.1	*1884.8*	1887.4	1895.2	1905.6	1908.2	1905.6	1910.8	1910.8
7.5°	1947.1	1957.4	*1952.2*	1965.2	1954.8	1941.9	1921.1	1905.6	1892.6	1897.8
10°	2068.9	2063.7	*2061.1*	2037.8	1991.1	1923.7	1869.3	1809.6	1799.3	1788.9
12.5°	2203.7	2198.5	*2198.5*	2118.2	1985.9	1845.9	1721.5	1628.2	1597.1	1594.5
15°	2393.0	2359.3	*2328.2*	2159.7	1895.2	1656.7	1511.5	1438.9	1420.8	1420.8
17.5°	2628.9	2540.8	*2488.9*	2128.5	1747.4	1532.2	1446.7	1428.5	1423.3	1436.3
20°	2921.9	2698.9	*2623.7*	2058.5	1693.0	1547.8	1506.3	1508.9	1511.5	1529.6
22.5°	3243.4	2844.1	*2719.7*	2058.5	1747.4	1646.3	1625.6	1654.1	1661.9	1677.4
25°	3601.1	2973.7	*2805.2*	2167.4	1908.2	1833.0	1807.1	1835.6	1856.3	1882.2
27.5°	4003.0	3108.6	*2953.0*	2364.5	2115.6	2068.9	2040.4	2053.4	2081.9	2113.0
30°	4363.4	3334.1	*3178.6*	2665.2	2398.2	2341.1	2291.9	2312.6	2343.7	2364.5
32.5°	4682.3	3608.9	*3476.7*	2981.5	2722.3	2623.7	2569.3	2564.1	2626.3	2610.8
35°	4975.2	3933.0	*3806.0*	3341.9	3051.5	2929.7	2857.1	2950.4	2908.9	2924.5
37.5°	5206.0	4270.0	*4168.9*	3686.7	3393.7	3227.8	3183.7	3297.8	3362.6	3380.8
40°	5395.2	4563.0	*4456.7*	4028.9	3707.4	3585.6	3655.6	3844.9	3837.1	3829.3
42.5°	5540.4	4814.5	*4697.8*	4288.2	4008.2	4031.5	4086.0	4213.0	4244.1	4200.0
45°	5605.2	4972.6	*4879.3*	4493.0	4350.4	4485.2	4508.6	4563.0	4542.3	4513.8
47.5°	5680.4	5112.6	*5014.1*	4679.7	4721.2	4853.4	4806.7	4762.6	4687.5	4643.4
50°	5807.5	5278.6	*5195.6*	4951.9	5102.3	5058.2	4876.7	4778.2	4625.2	4573.4
52.5°	6048.6	5592.3	*5530.1*	5382.3	5281.2	5027.1	4806.7	4630.4	4459.3	4389.3
55°	6263.8	6017.5	*5981.2*	5784.1	5226.7	4863.8	4568.2	4296.0	4003.0	3943.4
57.5°	6388.2	6722.7	*6764.1*	5955.2	4977.8	4493.0	4057.4	3621.9	3344.5	3295.2
60°	*6017.5*	*7484.9*	*7505.6*	*5921.5*	*4529.3*	*3824.1*	*3160.4*	*2851.9*	*2553.7*	*2468.2*
62.5°	5506.7	7326.7	*7308.6*	5719.3	3606.3	2789.7	2400.8	2255.6	2024.8	1954.8
65°	4734.1	6103.0	*6123.8*	4941.5	2398.2	2017.1	2017.1	1833.0	1576.3	1527.1
67.5°	3857.8	4705.6	*4658.9*	3204.5	1472.6	1615.2	1693.0	1428.5	1068.2	1008.5
70°	2507.1	3593.4	*3528.6*	1848.5	925.6	1345.6	1332.6	1073.3	764.8	723.3
72.5°	1078.5	2076.7	*2208.9*	943.7	697.4	1083.7	1063.0	751.9	510.7	492.6
75°	650.7	1044.8	*1138.2*	601.5	508.2	816.7	736.3	477.0	347.4	334.4
77.5°	412.2	573.0	*567.8*	451.1	381.1	552.2	495.2	329.3	235.9	225.6
80°	238.5	282.6	*293.0*	282.6	256.7	394.1	316.3	238.5	184.1	171.1
82.5°	153.0	176.3	*178.9*	137.4	142.6	254.1	171.1	140.0	106.3	95.9
85°	67.4	75.2	*72.6*	46.7	46.7	103.7	59.6	57.0	41.5	41.5
87.5°	2.6	5.2	*2.6*	2.6	2.6	10.4	5.2	7.8	7.8	7.8
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

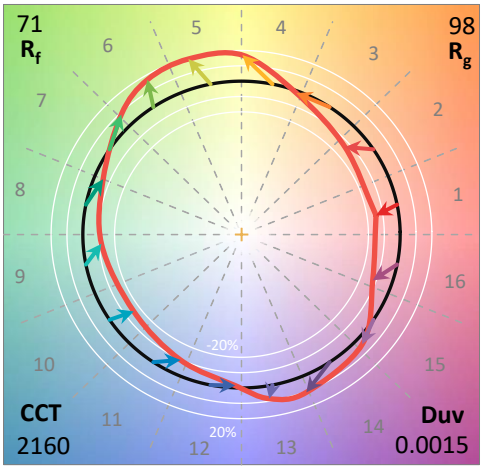
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-2
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-722-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160
CIE u':	0.2927
CIE v':	0.5388
Duv:	0.0015
CIE x:	0.5130
CIE y:	0.4197
CIE z:	0.0674
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	587
Purity:	79.96089
Rf:	70.6
Rg:	97.6

CRI (Ra):	71.9
R1:	68.7
R2:	82.6
R3:	95.5
R4:	66.4
R5:	65.4
R6:	75.9
R7:	77.2
R8:	43.5
R9:	-17.8
R10:	60.5
R11:	60.2
R12:	48.2
R13:	70.7
R14:	96.8
R15:	61.8



Test Conditions

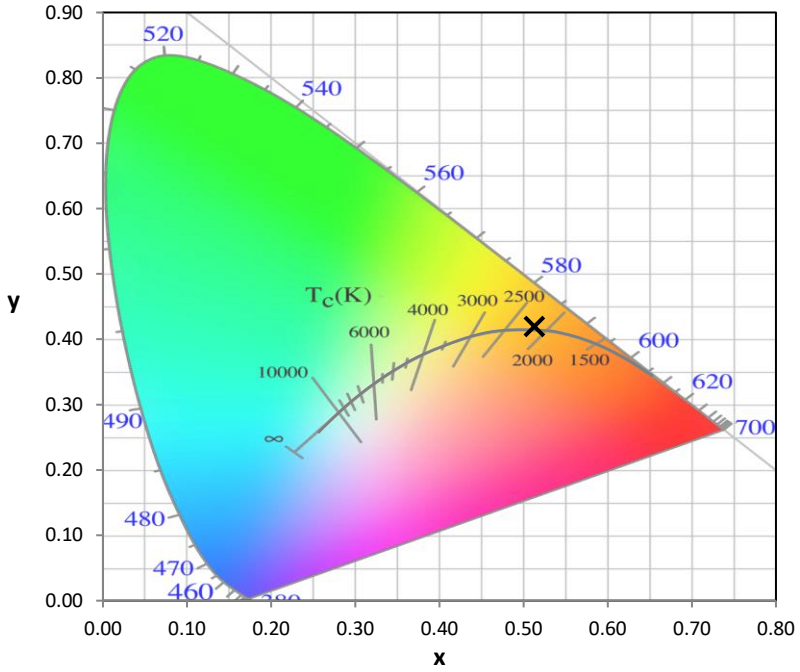
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-2

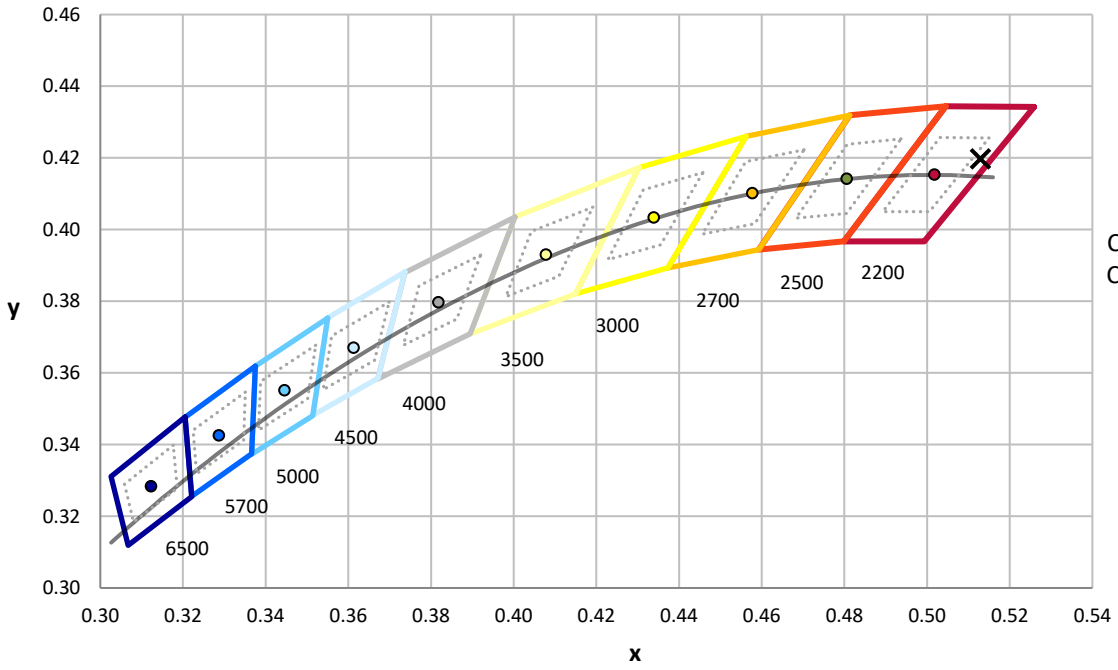
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



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

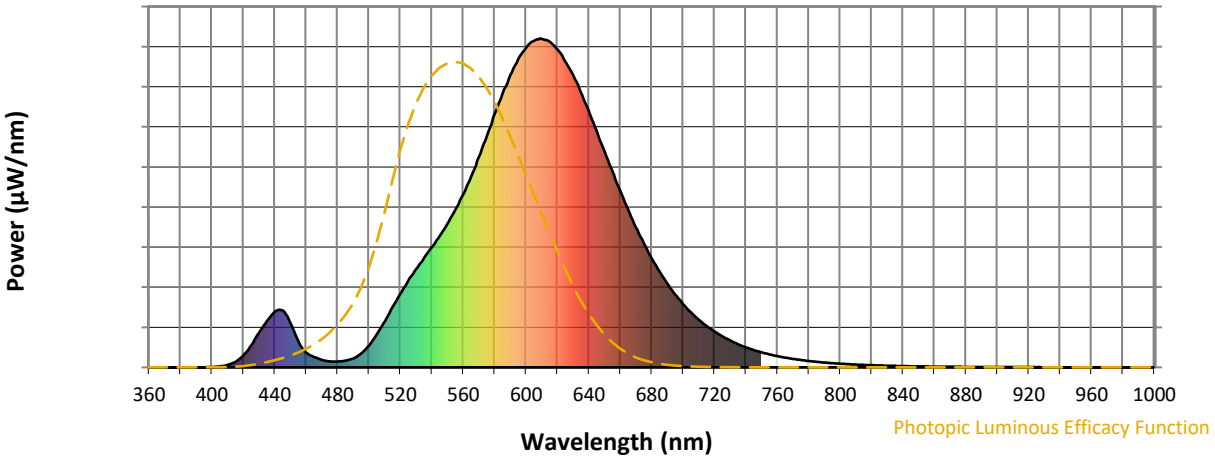


CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

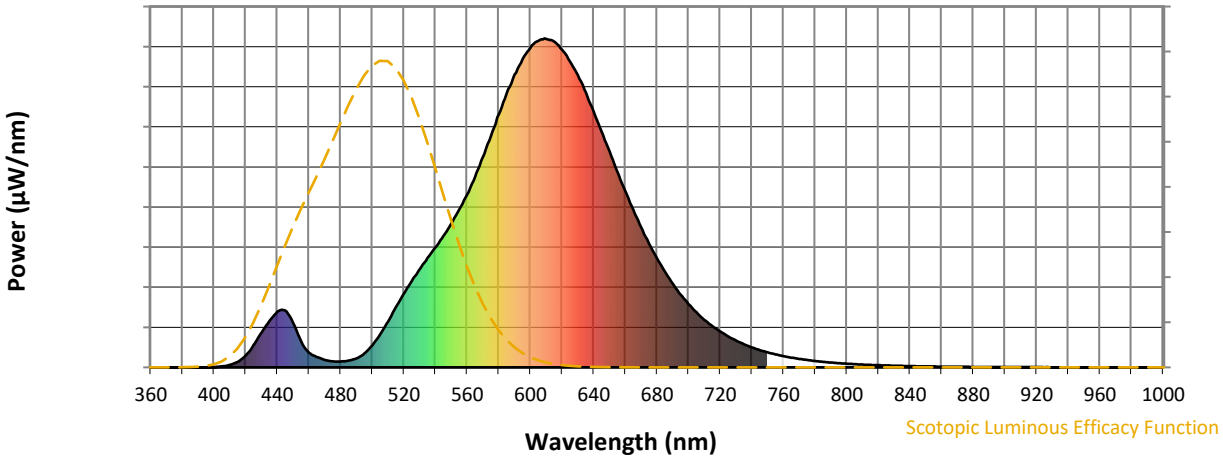


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength

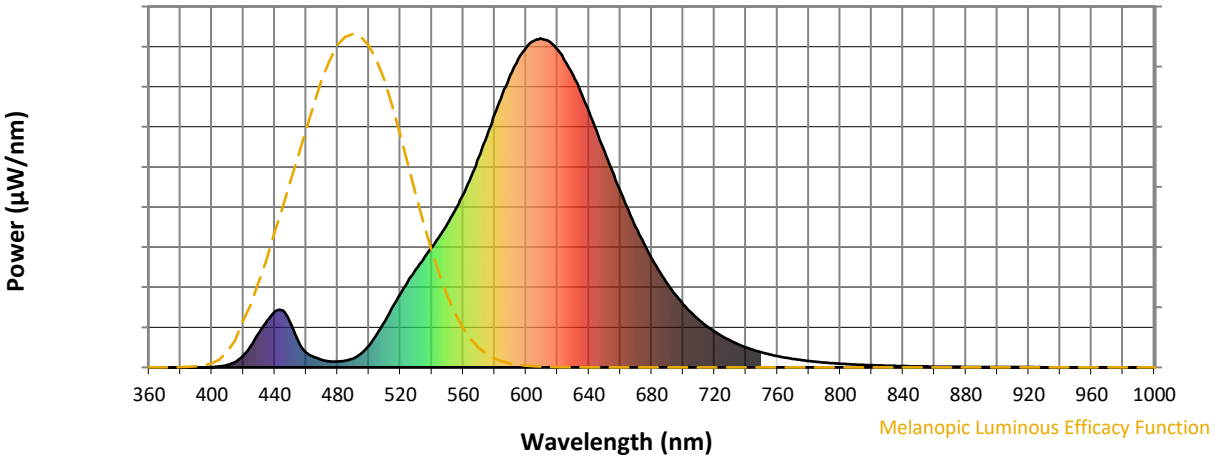


Scotopic Lumens: NR **S/P: 0.8**

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.21**

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

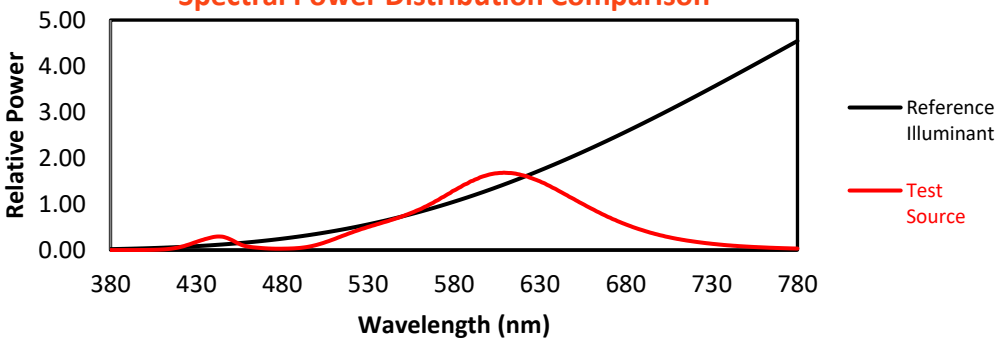
REPORT NUMBER: SP1-2407-184-2

TM-30-18

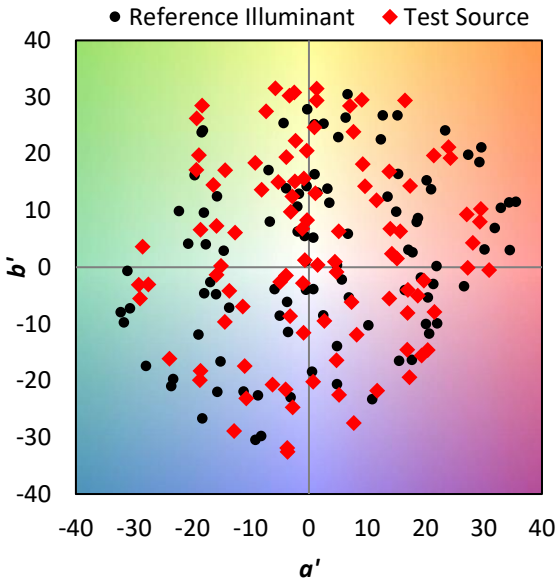
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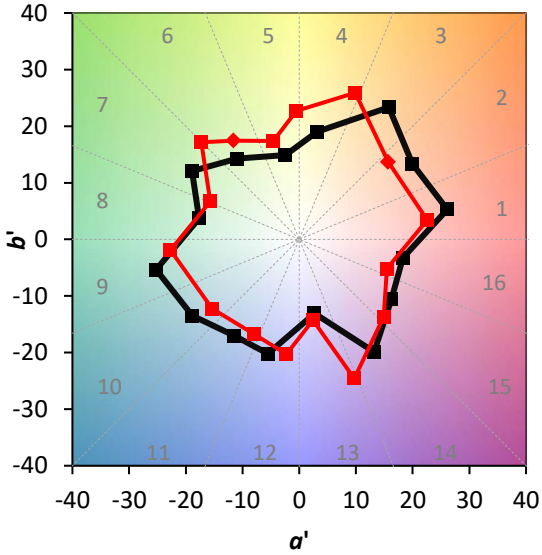
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R_g = 97.6
CIE R_a = 71.9
R_9 = -17.8

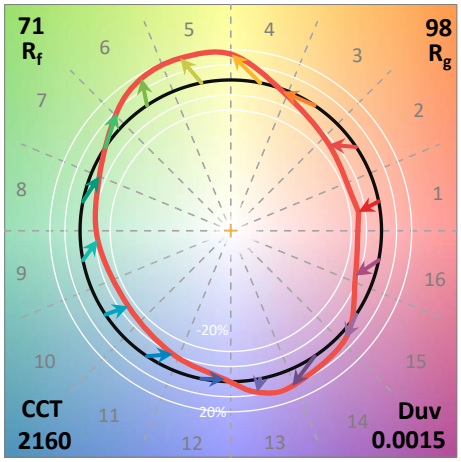
Spectral Power Distribution Comparison

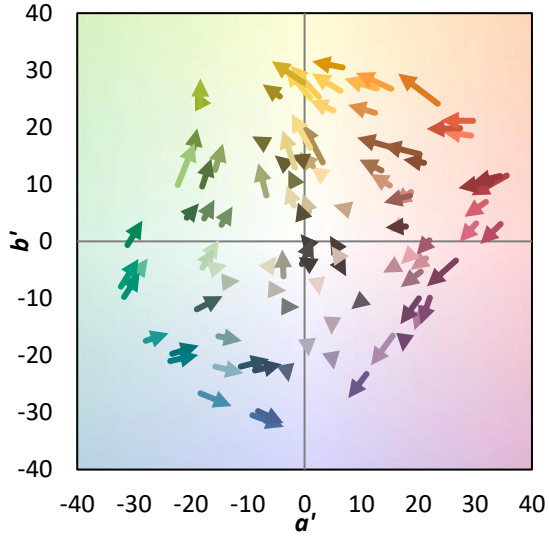


Color Vector Graphics







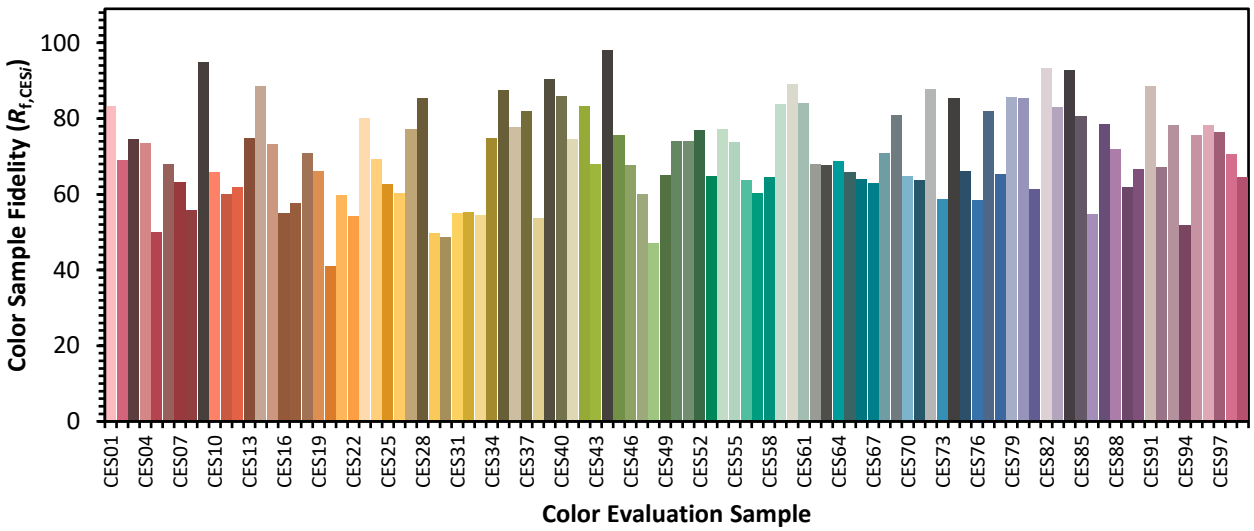


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Individual Sample Fidelity Index ($R_{f,i}$)

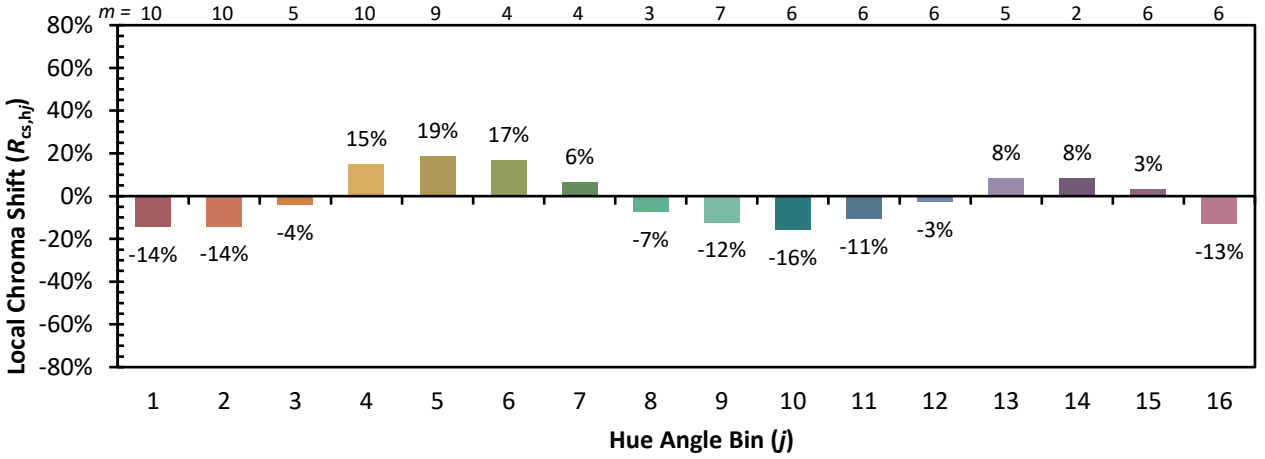
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CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	

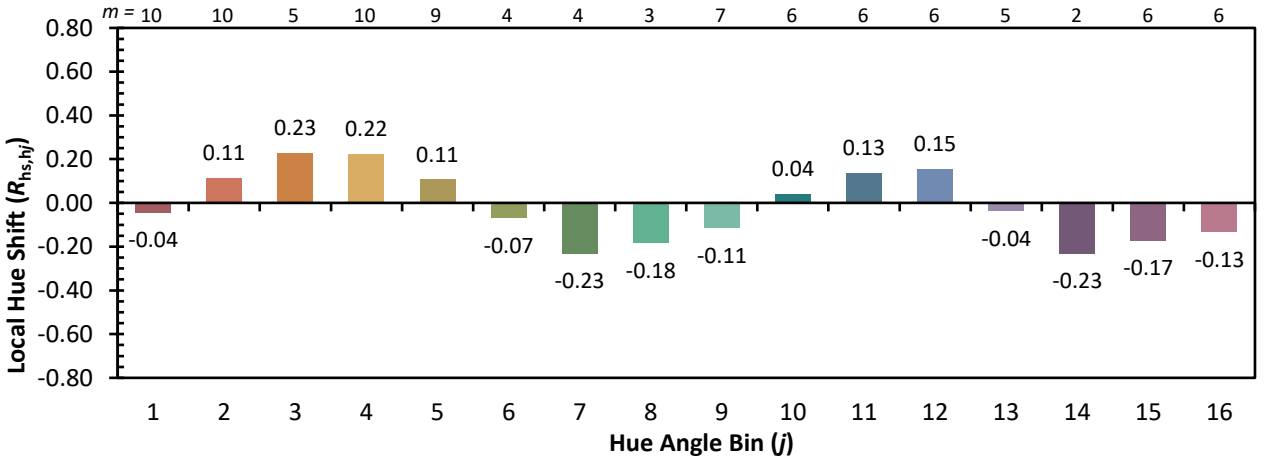


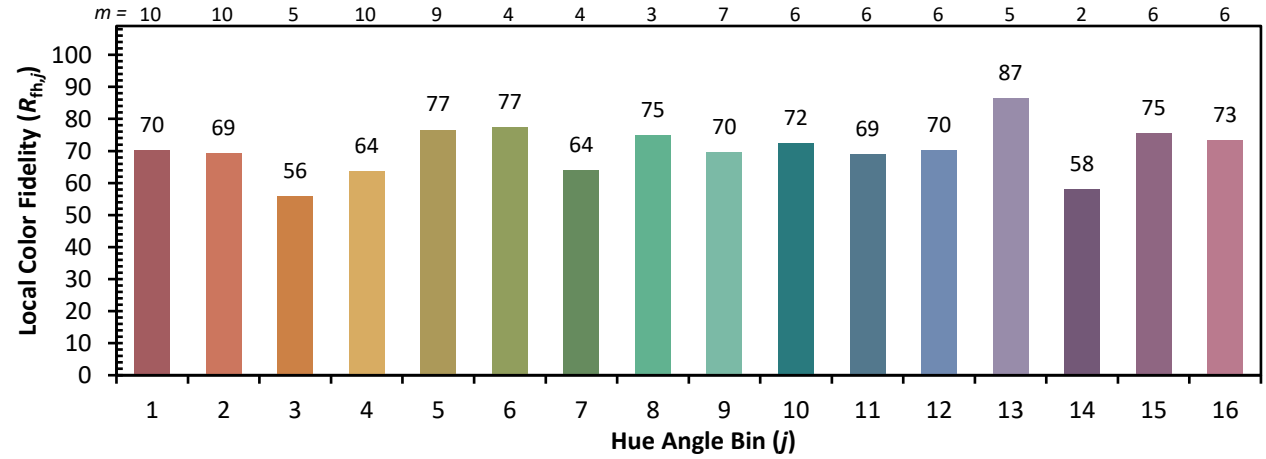
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Color Rendition by Hue-Angle Bin



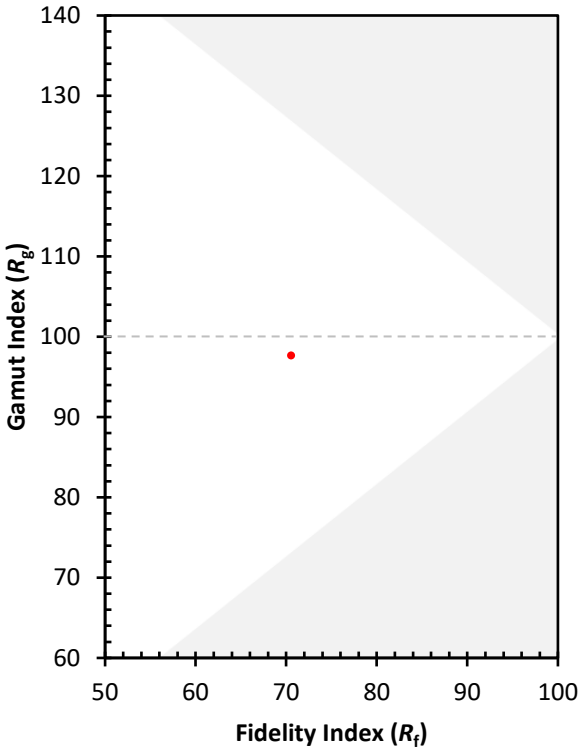


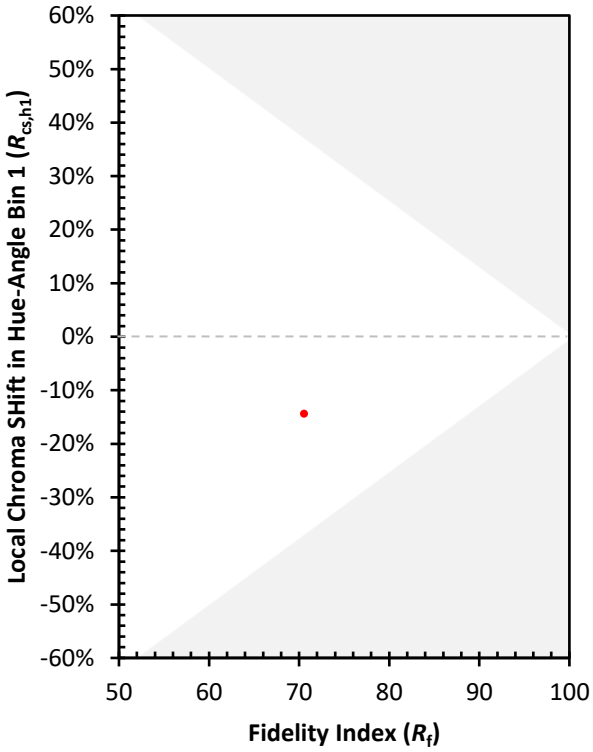


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Measure Comparisons





(END OF REPORT)