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: P1501571

Luminaire Tested: GSS-SB2C-840-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:	P1501571
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13167.9 lumens
Efficiency:	N/A
Efficacy:	129.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

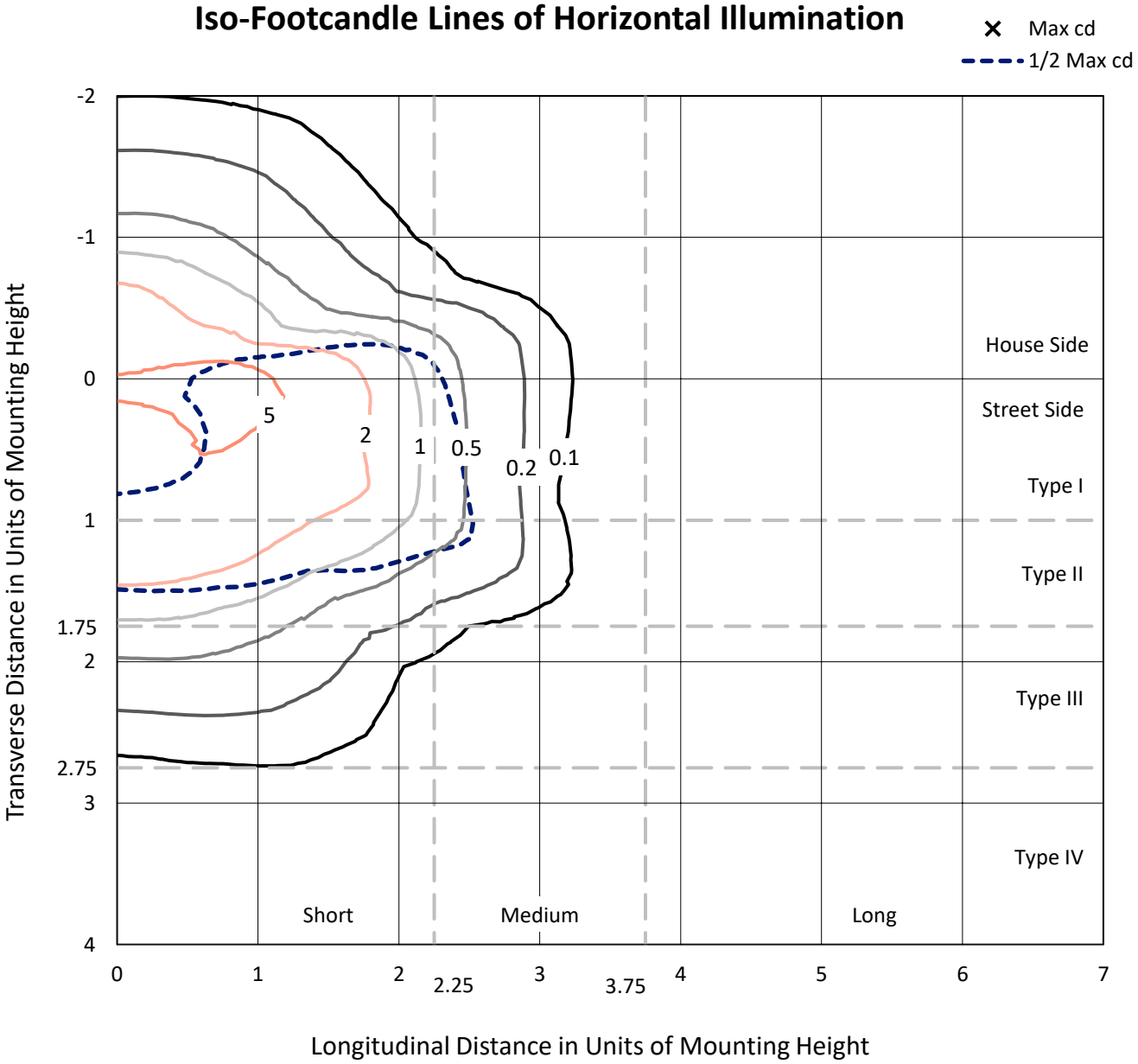
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



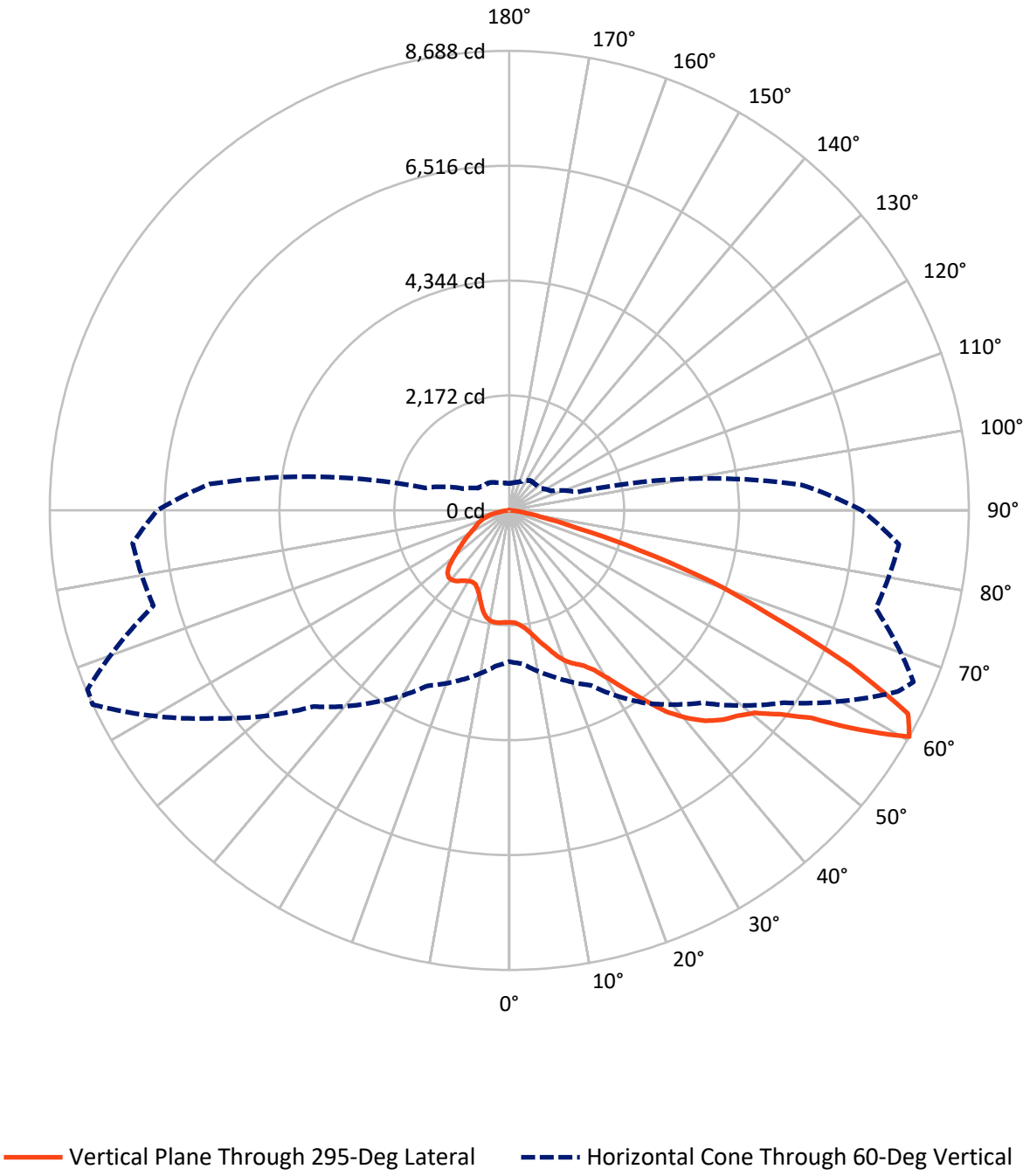
Based on 20 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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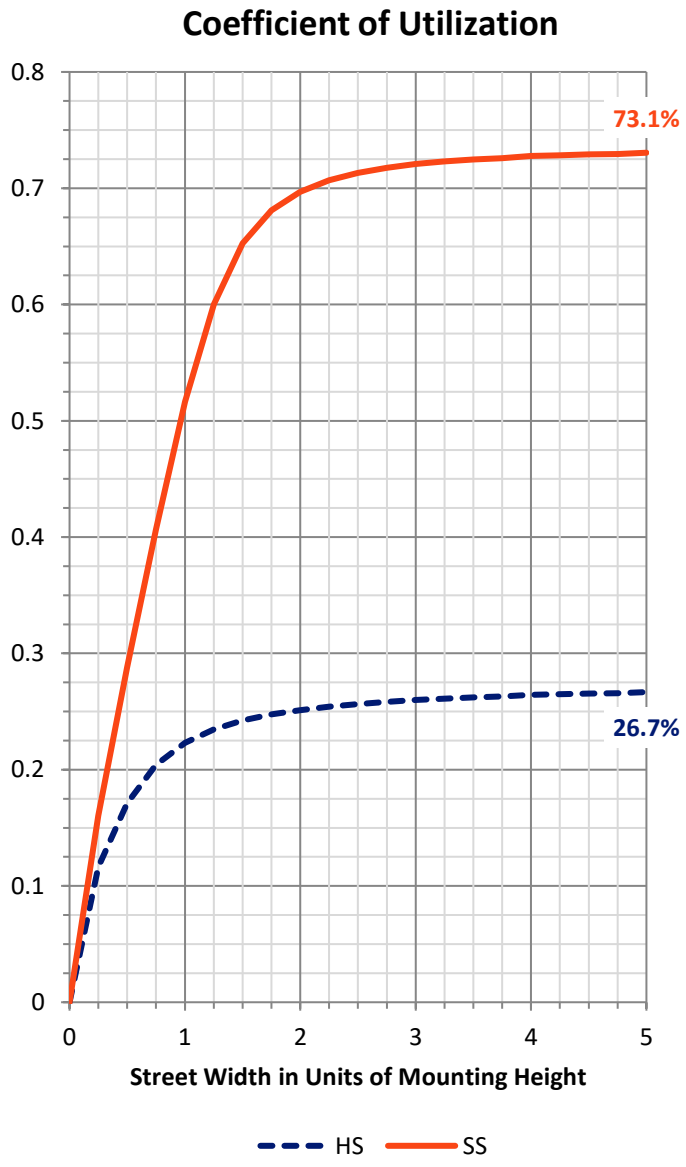
REPORT NUMBER: P1501571
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.0	0.0	3541.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9626.9	0.0	9626.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	13167.9	0.0	13167.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.5
10°-20°	572.6	4.3
20°-30°	1084.7	8.2
30°-40°	1912.2	14.5
40°-50°	2828.0	21.5
50°-60°	3320.9	25.2
60°-70°	2406.1	18.3
70°-80°	742.0	5.6
80°-90°	102.1	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°	13167.9	100.0
0°-180°	13167.9	100.0



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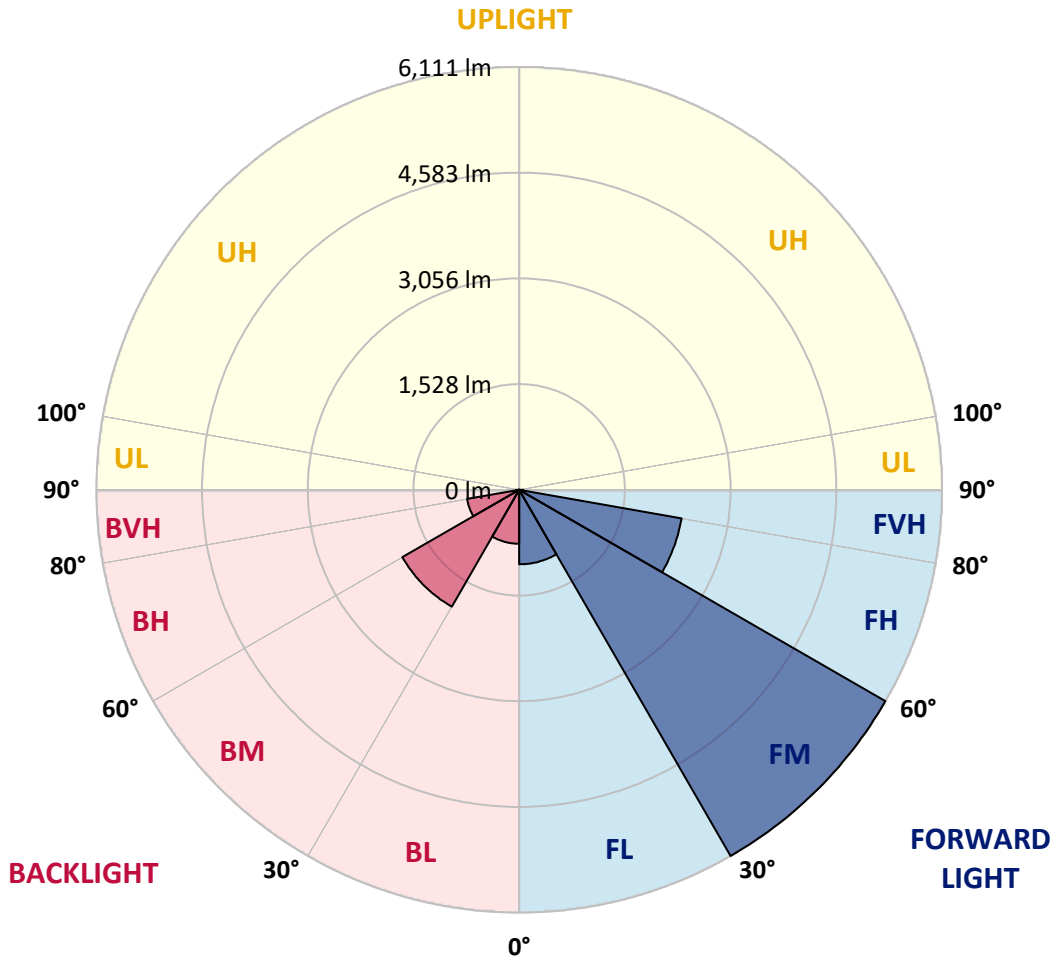
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1076.7	8.2			
FM	(30°-60°)	6111.3	46.4			
FH	(60°-80°)	2383.8	18.1			G2/5000
FVH	(80°-90°)	55.1	0.4			G1/100
BL	(0°-30°)	779.9	5.9	B2/1000		
BM	(30°-60°)	1949.8	14.8	B2/2500		
BH	(60°-80°)	764.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	47.0	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°	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2160.7	2166.7	2157.7	2163.7	2163.7	2154.7	2151.7	2139.7	2145.7	2142.7	2139.7
5°	2211.7	2214.7	2208.7	2217.7	2217.7	2220.7	2217.7	2202.7	2202.7	2202.7	2196.7
7.5°	2196.7	2196.7	2199.7	2229.7	2259.7	2298.7	2298.7	2292.7	2298.7	2295.7	2268.7
10°	2070.6	2082.6	2109.7	2184.7	2256.7	2340.7	2397.7	2415.8	2415.8	2418.8	2373.7
12.5°	1845.6	1854.6	1917.6	2031.6	2181.7	2334.7	2472.8	2562.8	2571.8	2586.8	2526.8
15°	1644.5	1650.5	1695.5	1812.6	1983.6	2253.7	2514.8	2700.8	2730.8	2793.9	2703.8
17.5°	1662.5	1659.5	1671.5	1716.5	1839.6	2121.7	2505.8	2862.9	2916.9	3027.9	2949.9
20°	1770.5	1770.5	1779.6	1788.6	1833.6	2025.6	2439.8	2994.9	3100.0	3316.0	3226.0
22.5°	1941.6	1941.6	1938.6	1953.6	1953.6	2067.6	2442.8	3094.0	3250.0	3637.1	3550.1
25°	2178.7	2166.7	2166.7	2172.7	2145.7	2226.7	2517.8	3196.0	3400.1	4018.2	3943.2
27.5°	2445.8	2454.8	2448.8	2427.8	2391.7	2454.8	2697.8	3355.0	3568.1	4420.4	4390.4
30°	2736.8	2739.9	2745.9	2733.8	2703.8	2748.9	2979.9	3595.1	3790.2	4840.5	4906.5
32.5°	3021.9	3064.0	3048.9	3018.9	3030.9	3112.0	3328.0	3919.2	4120.3	5230.6	5464.7
35°	3385.1	3400.1	3460.1	3349.0	3352.0	3490.1	3772.2	4345.3	4540.4	5635.7	6022.9
37.5°	3913.2	3940.2	3913.2	3739.2	3712.2	3904.2	4204.3	4765.5	4906.5	5941.8	6542.0
40°	4432.4	4465.4	4510.4	4306.3	4135.3	4294.3	4612.4	5086.6	5233.6	6109.9	6887.1
42.5°	4861.5	4915.5	4867.5	4807.5	4651.4	4681.5	4897.5	5335.7	5482.7	6323.0	7235.2
45°	5224.6	5233.6	5254.6	5212.6	5134.6	5107.6	5140.6	5554.7	5716.8	6419.0	7406.3
47.5°	5374.7	5413.7	5431.7	5503.7	5584.7	5530.7	5347.7	5656.8	5803.8	6413.0	7460.3
50°	5293.6	5332.7	5428.7	5599.7	5794.8	5890.8	5590.7	5797.8	5962.9	6521.0	7571.4
52.5°	5080.6	5122.6	5278.6	5473.7	5800.8	6019.9	5932.8	6091.9	6250.9	6713.1	7757.4
55°	4564.4	4627.4	4846.5	5170.6	5620.7	5950.8	6293.0	6524.0	6698.1	6944.2	7949.5
57.5°	3814.2	3880.2	4126.3	4612.4	5287.6	5665.8	6398.0	7334.3	7412.3	7220.2	7967.5
60°	*2856.9*	*2910.9*	*3259.0*	*3649.1*	*4441.4*	*5143.6*	*6338.0*	*8102.5*	*8300.6*	*7172.2*	*7394.3*
62.5°	2262.7	2328.7	2637.8	2817.9	3385.1	4249.3	6127.9	8315.6	8486.6	6776.1	6596.0
65°	1767.5	1812.6	2100.7	2358.7	2496.8	2901.9	5251.6	7274.3	7427.3	6130.9	5443.7
67.5°	1167.4	1236.4	1578.5	1932.6	2004.6	1845.6	3613.1	5596.7	5668.8	4873.5	4093.3
70°	837.3	870.3	1125.3	1503.5	1611.5	1236.4	1968.6	4237.3	4258.3	3271.0	2757.9
72.5°	570.2	576.2	765.2	1152.4	1284.4	897.3	1083.3	2790.9	2718.8	1614.5	1578.5
75°	387.1	393.1	489.2	768.2	909.3	624.2	705.2	1521.5	1461.5	891.3	957.3
77.5°	261.1	267.1	336.1	516.2	606.2	432.1	516.2	804.2	789.2	591.2	513.2
80°	198.1	207.1	249.1	330.1	423.1	252.1	294.1	381.1	387.1	315.1	261.1
82.5°	111.0	123.0	150.0	168.1	273.1	141.0	141.0	228.1	219.1	195.1	141.0
85°	48.0	51.0	60.0	63.0	111.0	60.0	51.0	99.0	102.0	96.0	45.0
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2124.7	2142.7	2124.7	2115.7	2115.7	2100.7	2094.7	2094.7	2073.6	2082.6	2076.6
5°	2172.7	2178.7	2157.7	2130.7	2094.7	2064.6	2022.6	1968.6	1935.6	1932.6	1935.6
7.5°	2247.7	2250.7	2193.7	2133.7	2043.6	1935.6	1806.6	1701.5	1608.5	1593.5	1611.5
10°	2352.7	2346.7	2262.7	2121.7	1932.6	1704.5	1506.5	1410.4	1356.4	1353.4	1350.4
12.5°	2493.8	2454.8	2325.7	2070.6	1740.5	1476.5	1374.4	1368.4	1383.4	1395.4	1398.4
15°	2655.8	2604.8	2376.7	1971.6	1545.5	1392.4	1398.4	1449.5	1467.5	1479.5	1479.5
17.5°	2856.9	2790.9	2433.8	1830.6	1446.4	1410.4	1452.5	1500.5	1530.5	1542.5	1539.5
20°	3124.0	2985.9	2478.8	1695.5	1419.4	1440.4	1476.5	1524.5	1554.5	1569.5	1569.5
22.5°	3391.1	3220.0	2487.8	1602.5	1419.4	1443.4	1476.5	1524.5	1557.5	1572.5	1569.5
25°	3754.2	3520.1	2490.8	1536.5	1422.4	1428.4	1458.5	1500.5	1548.5	1563.5	1569.5
27.5°	4141.3	3850.2	2505.8	1521.5	1410.4	1407.4	1428.4	1467.5	1515.5	1554.5	1557.5
30°	4621.4	4222.3	2511.8	1536.5	1413.4	1374.4	1389.4	1428.4	1479.5	1518.5	1530.5
32.5°	5092.6	4567.4	2499.8	1569.5	1419.4	1353.4	1356.4	1380.4	1434.4	1461.5	1482.5
35°	5590.7	4933.5	2478.8	1614.5	1422.4	1344.4	1317.4	1329.4	1365.4	1368.4	1377.4
37.5°	5980.9	5206.6	2415.8	1674.5	1428.4	1311.4	1257.4	1248.4	1233.4	1203.4	1209.4
40°	6302.0	5389.7	2310.7	1704.5	1413.4	1272.4	1182.4	1140.4	1083.3	1038.3	1047.3
42.5°	6533.0	5512.7	2184.7	1710.5	1389.4	1206.4	1095.3	1023.3	960.3	912.3	915.3
45°	6635.1	5500.7	2049.6	1665.5	1332.4	1125.3	1014.3	945.3	876.3	825.3	819.3
47.5°	6638.1	5383.7	1863.6	1557.5	1236.4	1032.3	939.3	864.3	807.3	771.2	768.2
50°	6662.1	5317.7	1689.5	1401.4	1110.3	933.3	873.3	798.2	765.2	714.2	699.2
52.5°	6812.1	5425.7	1569.5	1230.4	993.3	861.3	816.3	750.2	696.2	663.2	660.2
55°	7055.2	5611.7	1503.5	1101.3	882.3	792.2	762.2	705.2	657.2	624.2	615.2
57.5°	7085.2	5707.8	1425.4	981.3	792.2	738.2	726.2	663.2	594.2	570.2	561.2
60°	*6665.1*	*5545.7*	*1329.4*	*870.3*	*726.2*	*696.2*	*690.2*	*606.2*	*549.2*	*519.2*	*507.2*
62.5°	6091.9	5140.6	1182.4	768.2	675.2	654.2	630.2	564.2	492.2	459.1	450.1
65°	4978.5	4321.3	1005.3	699.2	624.2	600.2	594.2	504.2	456.1	438.1	435.1
67.5°	3772.2	3472.1	885.3	648.2	570.2	561.2	540.2	510.2	489.2	468.1	462.1
70°	2667.8	2505.8	753.2	582.2	516.2	501.2	588.2	555.2	480.1	453.1	450.1
72.5°	1617.5	1572.5	651.2	522.2	444.1	468.1	543.2	501.2	432.1	399.1	387.1
75°	1020.3	933.3	546.2	444.1	354.1	381.1	474.1	447.1	372.1	339.1	330.1
77.5°	555.2	516.2	411.1	363.1	279.1	309.1	414.1	369.1	297.1	324.1	288.1
80°	243.1	270.1	273.1	210.1	186.1	228.1	297.1	288.1	228.1	231.1	192.1
82.5°	117.0	153.0	177.1	144.0	105.0	135.0	198.1	165.1	153.0	144.0	138.0
85°	36.0	57.0	78.0	69.0	48.0	57.0	93.0	90.0	108.0	93.0	87.0
87.5°	12.0	12.0	9.0	9.0	9.0	12.0	15.0	9.0	3.0	3.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2073.6	2076.6	2076.6	2079.6	2079.6	2088.6	2100.7	2112.7	2103.7	2115.7	2118.7
5°	1929.6	1944.6	1956.6	2001.6	2037.6	2067.6	2100.7	2130.7	2139.7	2145.7	2160.7
7.5°	1590.5	1632.5	1710.5	1812.6	1926.6	2037.6	2112.7	2190.7	2202.7	2217.7	2238.7
10°	1353.4	1371.4	1425.4	1530.5	1734.5	1953.6	2136.7	2259.7	2310.7	2340.7	2361.7
12.5°	1392.4	1380.4	1371.4	1386.4	1518.5	1800.6	2121.7	2358.7	2454.8	2487.8	2514.8
15°	1485.5	1473.5	1440.4	1398.4	1413.4	1638.5	2070.6	2451.8	2604.8	2658.8	2715.8
17.5°	1539.5	1527.5	1500.5	1455.5	1416.4	1503.5	1974.6	2535.8	2841.9	2907.9	2988.9
20°	1569.5	1557.5	1530.5	1485.5	1440.4	1452.5	1851.6	2640.8	3112.0	3217.0	3337.0
22.5°	1575.5	1560.5	1530.5	1485.5	1458.5	1449.5	1734.5	2703.8	3403.1	3565.1	3703.1
25°	1572.5	1545.5	1506.5	1473.5	1458.5	1455.5	1653.5	2739.9	3718.2	3976.2	4132.3
27.5°	1551.5	1518.5	1479.5	1455.5	1449.5	1467.5	1617.5	2781.9	4087.3	4417.4	4666.4
30°	1527.5	1479.5	1431.4	1422.4	1437.4	1494.5	1647.5	2796.9	4474.4	4897.5	5152.6
32.5°	1464.5	1428.4	1380.4	1377.4	1413.4	1515.5	1716.5	2775.9	4816.5	5377.7	5698.8
35°	1374.4	1353.4	1326.4	1335.4	1392.4	1533.5	1764.5	2709.8	5128.6	5824.8	6199.9
37.5°	1215.4	1230.4	1245.4	1266.4	1338.4	1530.5	1785.6	2604.8	5386.7	6181.9	6662.1
40°	1038.3	1089.3	1137.4	1191.4	1287.4	1506.5	1791.6	2475.8	5536.7	6452.0	7073.2
42.5°	927.3	975.3	1035.3	1113.3	1218.4	1452.5	1785.6	2331.7	5584.7	6638.1	7334.3
45°	825.3	882.3	957.3	1038.3	1158.4	1374.4	1731.5	2175.7	5608.7	6725.1	7445.3
47.5°	771.2	804.2	873.3	954.3	1080.3	1278.4	1626.5	2061.6	5572.7	6743.1	7580.4
50°	708.2	753.2	798.2	876.3	999.3	1158.4	1500.5	1995.6	5632.7	6920.1	7793.4
52.5°	660.2	684.2	732.2	804.2	894.3	1047.3	1380.4	1941.6	5797.8	7100.2	8015.5
55°	624.2	651.2	681.2	741.2	810.3	936.3	1257.4	1860.6	5989.9	7292.3	8237.6
57.5°	567.2	585.2	627.2	690.2	735.2	828.3	1113.3	1764.5	5974.9	7142.2	7853.4
60°	*516.2*	*534.2*	*579.2*	*642.2*	*669.2*	*732.2*	*972.3*	*1641.5*	*5686.8*	*6653.1*	*7145.2*
62.5°	459.1	480.1	534.2	579.2	603.2	651.2	825.3	1416.4	5086.6	5917.8	6317.0
65°	435.1	447.1	483.2	537.2	534.2	579.2	696.2	1113.3	4093.3	4522.4	4885.5
67.5°	462.1	480.1	474.1	489.2	480.1	504.2	624.2	894.3	3217.0	3406.1	3616.1
70°	456.1	498.2	519.2	489.2	420.1	447.1	540.2	714.2	2301.7	2283.7	2274.7
72.5°	399.1	441.1	501.2	531.2	411.1	372.1	468.1	618.2	1476.5	1470.5	1329.4
75°	339.1	369.1	441.1	480.1	354.1	300.1	402.1	525.2	882.3	894.3	798.2
77.5°	312.1	297.1	369.1	423.1	288.1	231.1	324.1	396.1	486.2	492.2	456.1
80°	225.1	216.1	276.1	309.1	219.1	165.1	183.1	246.1	261.1	234.1	243.1
82.5°	144.0	147.0	165.1	198.1	135.0	90.0	126.0	165.1	141.0	114.0	135.0
85°	93.0	105.0	87.0	102.0	42.0	42.0	54.0	72.0	48.0	33.0	36.0
87.5°	0.0	0.0	6.0	12.0	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: P1501571
CATALOG NUMBER: GSS-SB2C-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2118.7	2118.7	*2118.7*	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2127.7	2124.7	*2124.7*	2130.7	2145.7	2151.7	2160.7	2157.7	2166.7	2160.7
5°	2169.7	2172.7	*2181.7*	2184.7	2193.7	2205.7	2208.7	2205.7	2211.7	2211.7
7.5°	2253.7	2265.7	*2259.7*	2274.7	2262.7	2247.7	2223.7	2205.7	2190.7	2196.7
10°	2394.7	2388.7	*2385.7*	2358.7	2304.7	2226.7	2163.7	2094.7	2082.6	2070.6
12.5°	2550.8	2544.8	*2544.8*	2451.8	2298.7	2136.7	1992.6	1884.6	1848.6	1845.6
15°	2769.9	2730.8	*2694.8*	2499.8	2193.7	1917.6	1749.5	1665.5	1644.5	1644.5
17.5°	3042.9	2940.9	*2880.9*	2463.8	2022.6	1773.6	1674.5	1653.5	1647.5	1662.5
20°	3382.1	3124.0	*3036.9*	2382.7	1959.6	1791.6	1743.5	1746.5	1749.5	1770.5
22.5°	3754.2	3292.0	*3148.0*	2382.7	2022.6	1905.6	1881.6	1914.6	1923.6	1941.6
25°	4168.3	3442.1	*3247.0*	2508.8	2208.7	2121.7	2091.6	2124.7	2148.7	2178.7
27.5°	4633.4	3598.1	*3418.1*	2736.8	2448.8	2394.7	2361.7	2376.7	2409.7	2445.8
30°	5050.6	3859.2	*3679.1*	3085.0	2775.9	2709.8	2652.8	2676.8	2712.8	2736.8
32.5°	5419.7	4177.3	*4024.2*	3451.1	3151.0	3036.9	2973.9	2967.9	3039.9	3021.9
35°	5758.8	4552.4	*4405.4*	3868.2	3532.1	3391.1	3307.0	3415.1	3367.0	3385.1
37.5°	6025.9	4942.5	*4825.5*	4267.3	3928.2	3736.2	3685.1	3817.2	3892.2	3913.2
40°	6244.9	5281.6	*5158.6*	4663.4	4291.3	4150.3	4231.3	4450.4	4441.4	4432.4
42.5°	6413.0	5572.7	*5437.7*	4963.5	4639.4	4666.4	4729.5	4876.5	4912.5	4861.5
45°	6488.0	5755.8	*5647.8*	5200.6	5035.6	5191.6	5218.6	5281.6	5257.6	5224.6
47.5°	6575.0	5917.8	*5803.8*	5416.7	5464.7	5617.7	5563.7	5512.7	5425.7	5374.7
50°	6722.1	6109.9	*6013.9*	5731.8	5905.8	5854.8	5644.8	5530.7	5353.7	5293.6
52.5°	7001.2	6473.0	*6401.0*	6229.9	6112.9	5818.8	5563.7	5359.7	5161.6	5080.6
55°	7250.3	6965.2	*6923.1*	6695.1	6049.9	5629.7	5287.6	4972.5	4633.4	4564.4
57.5°	7394.3	7781.4	*7829.4*	6893.1	5761.8	5200.6	4696.5	4192.3	3871.2	3814.2
60°	*6965.2*	*8663.7*	*8687.7*	*6854.1*	*5242.6*	*4426.4*	*3658.1*	*3301.0*	*2955.9*	*2856.9*
62.5°	6374.0	8480.6	*8459.6*	6620.1	4174.3	3229.0	2778.9	2610.8	2343.7	2262.7
65°	5479.7	7064.2	*7088.2*	5719.8	2775.9	2334.7	2334.7	2121.7	1824.6	1767.5
67.5°	4465.4	5446.7	*5392.7*	3709.2	1704.5	1869.6	1959.6	1653.5	1236.4	1167.4
70°	2901.9	4159.3	*4084.3*	2139.7	1071.3	1557.5	1542.5	1242.4	885.3	837.3
72.5°	1248.4	2403.7	*2556.8*	1092.3	807.3	1254.4	1230.4	870.3	591.2	570.2
75°	753.2	1209.4	*1317.4*	696.2	588.2	945.3	852.3	552.2	402.1	387.1
77.5°	477.1	663.2	*657.2*	522.2	441.1	639.2	573.2	381.1	273.1	261.1
80°	276.1	327.1	*339.1*	327.1	297.1	456.1	366.1	276.1	213.1	198.1
82.5°	177.1	204.1	*207.1*	159.0	165.1	294.1	198.1	162.1	123.0	111.0
85°	78.0	87.0	*84.0*	54.0	54.0	120.0	69.0	66.0	48.0	48.0
87.5°	3.0	6.0	*3.0*	3.0	3.0	12.0	6.0	9.0	9.0	9.0
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

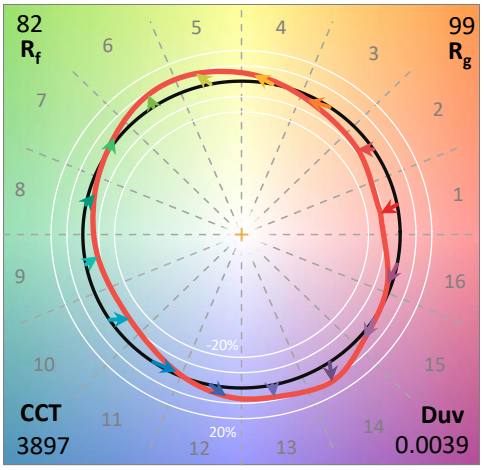
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

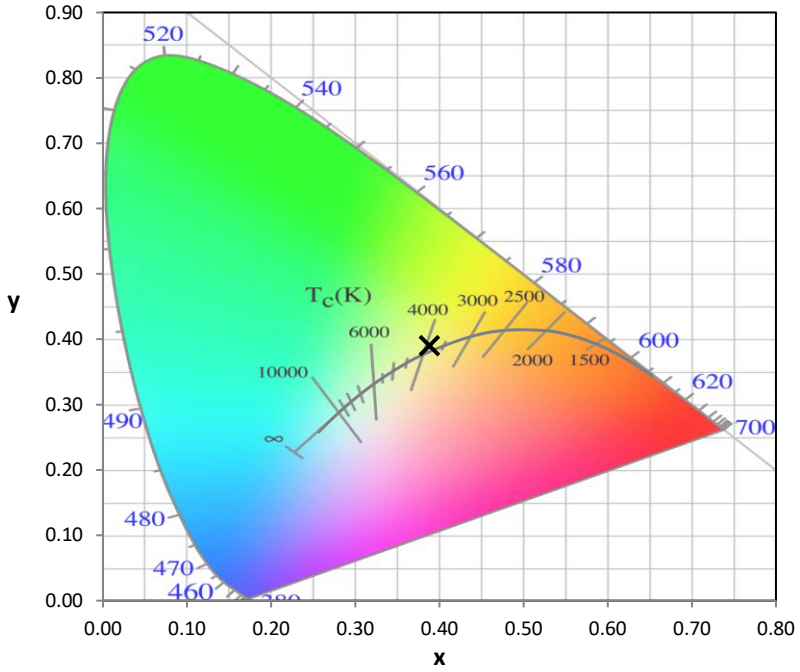
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

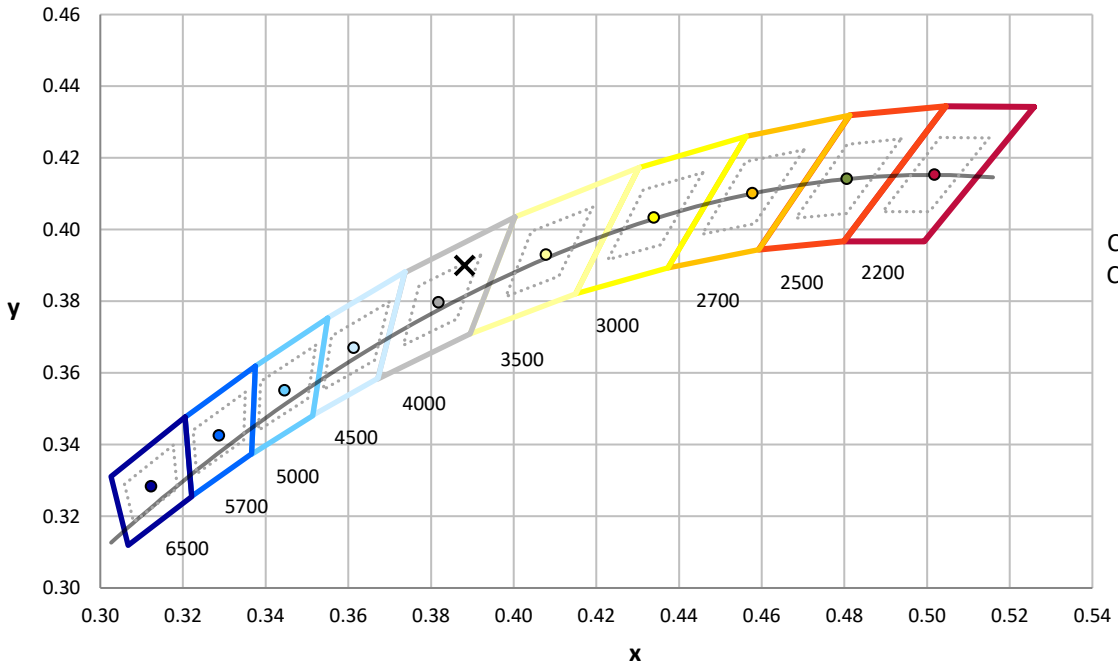
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

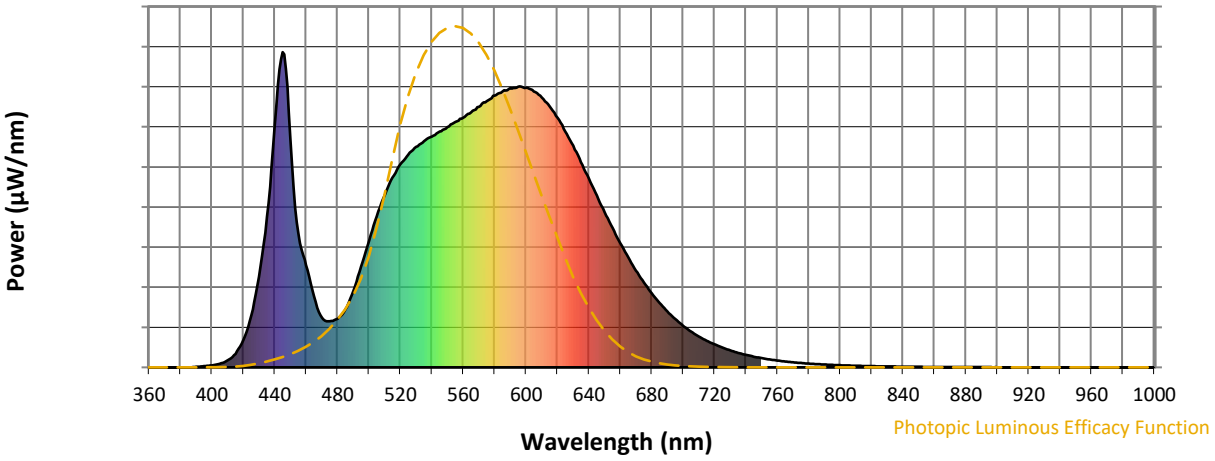


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

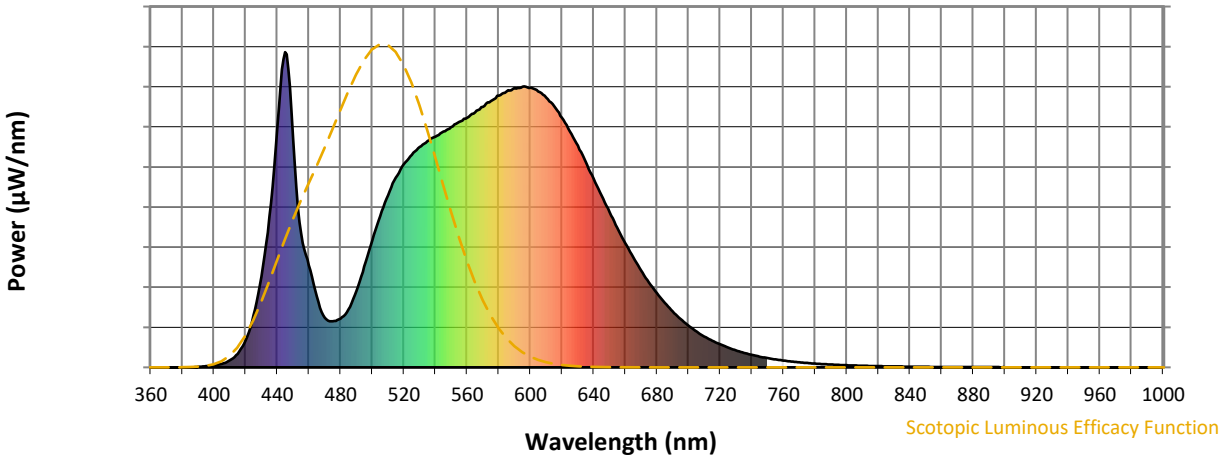


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

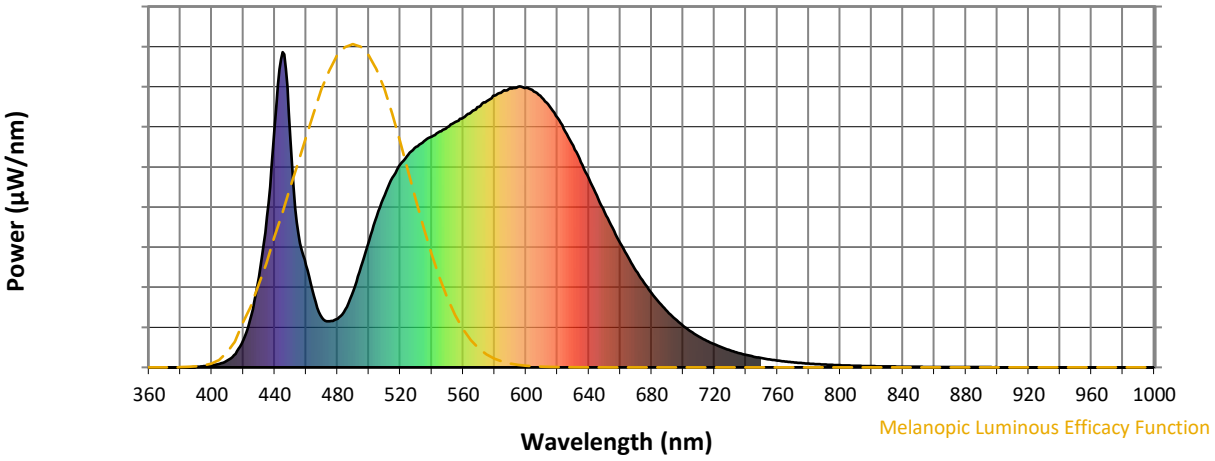


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

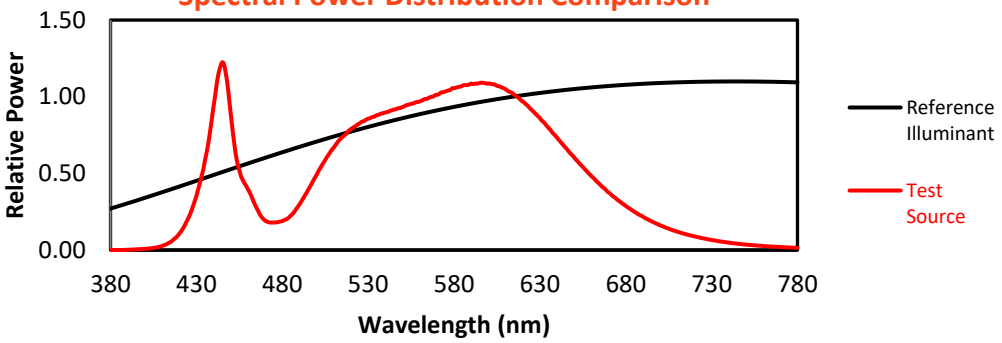
REPORT NUMBER: SP1-2407-184-11

TM-30-18

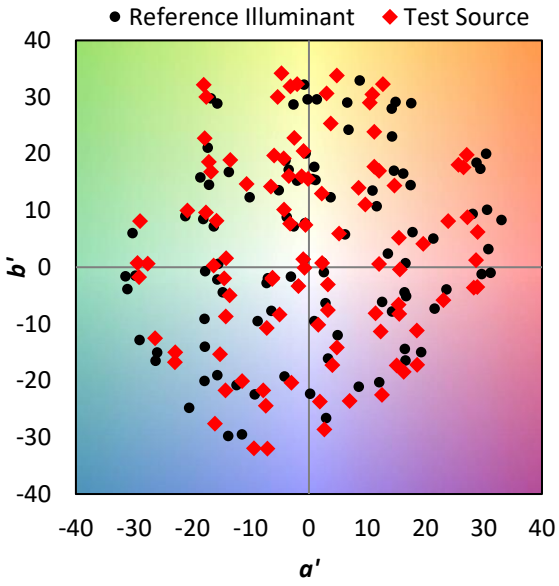
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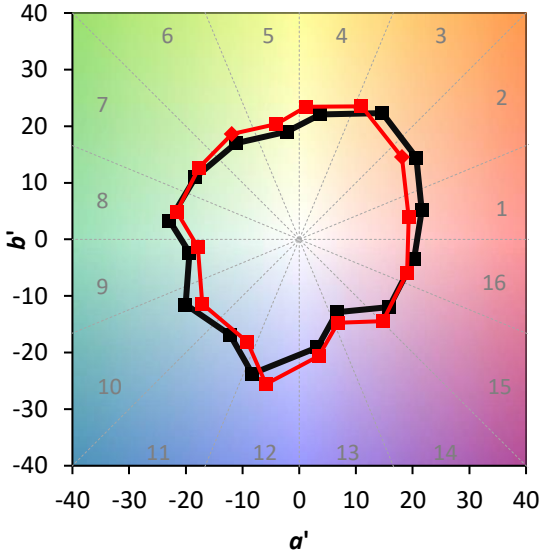
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

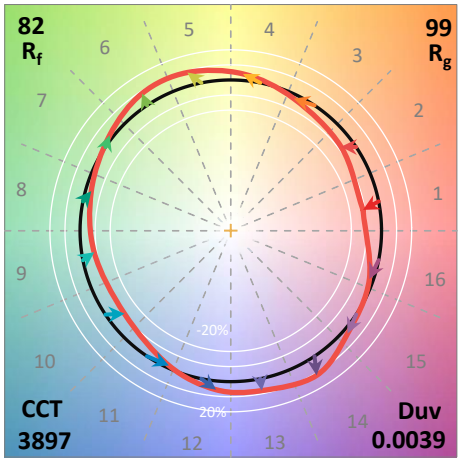
Spectral Power Distribution Comparison

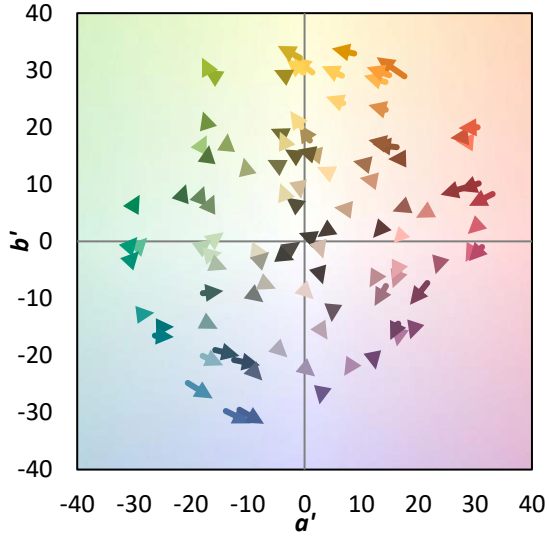


Color Vector Graphics







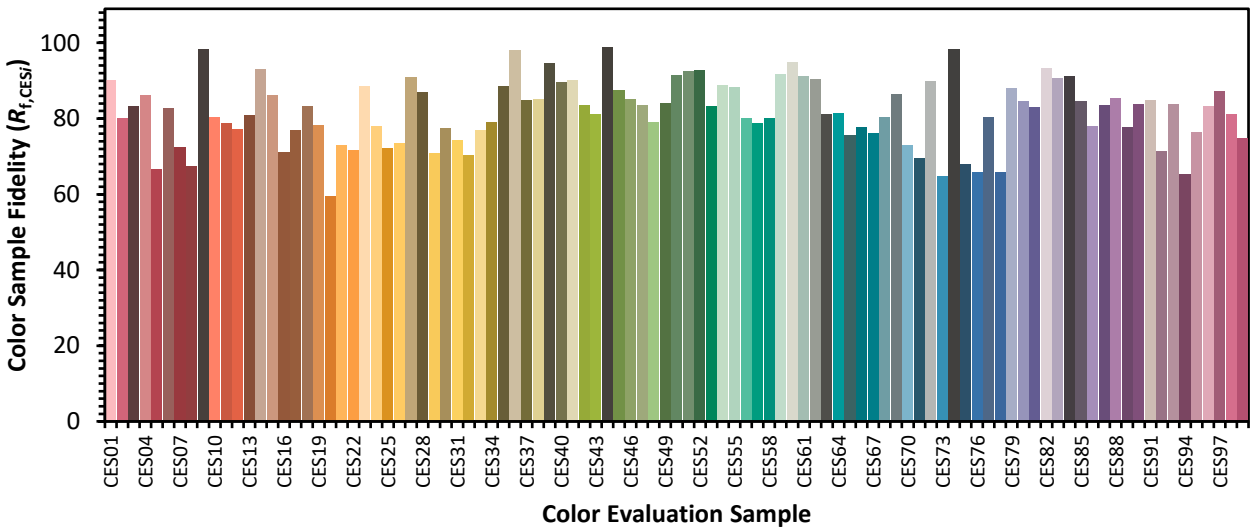


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Individual Sample Fidelity Index ($R_{f,i}$)

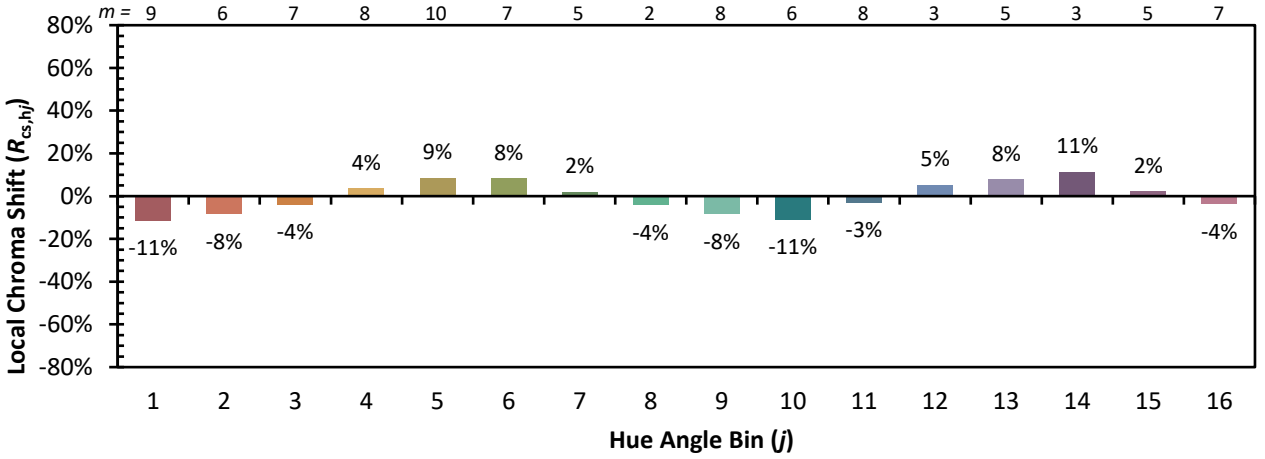
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CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

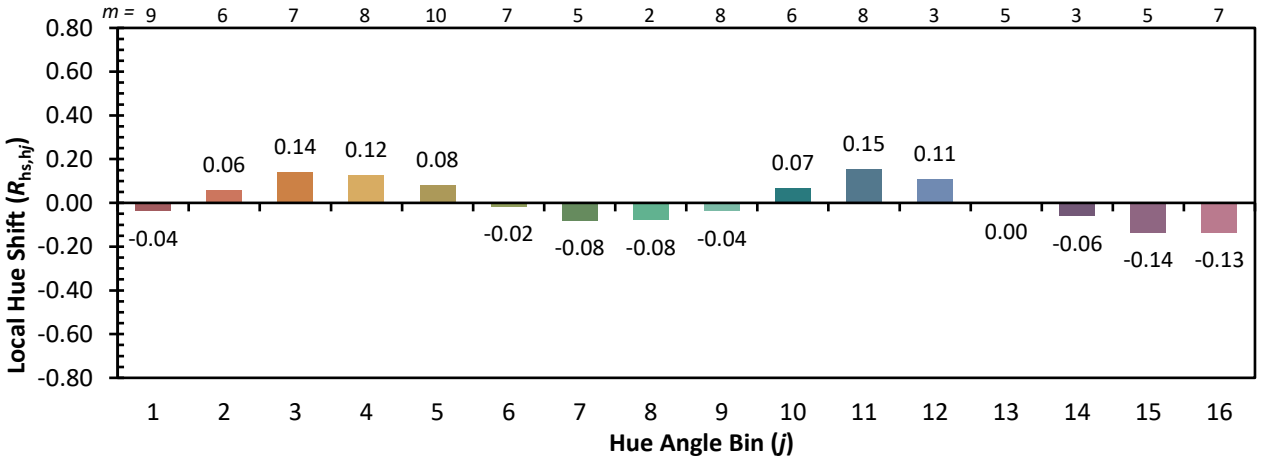


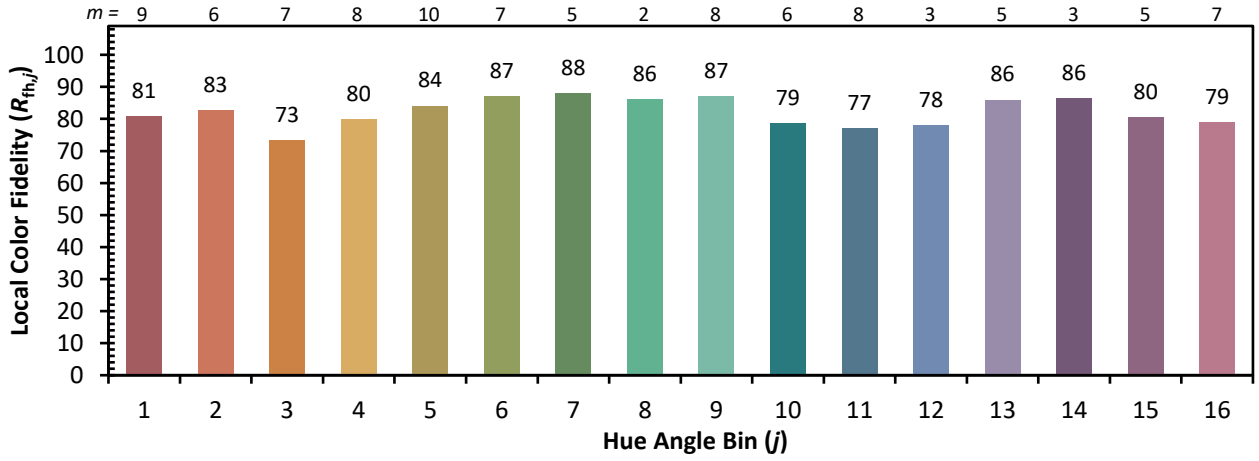
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Color Rendition by Hue-Angle Bin



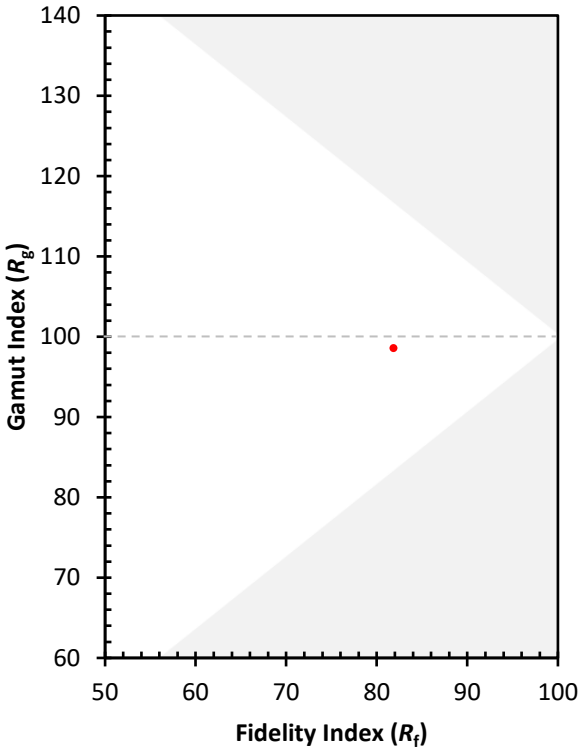


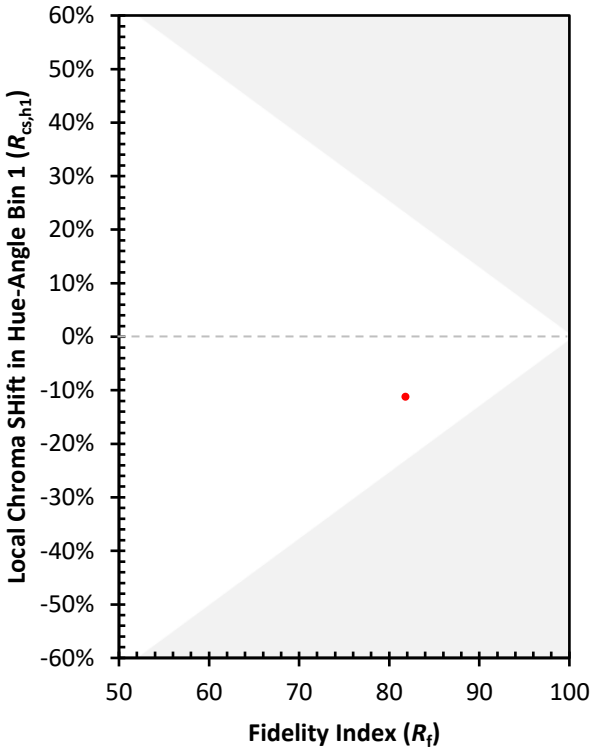


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Measure Comparisons





(END OF REPORT)