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: P1501547

Luminaire Tested: GSS-SB2C-835-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:	P1501547
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-835-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12774.6 lumens
Efficiency:	N/A
Efficacy:	125.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

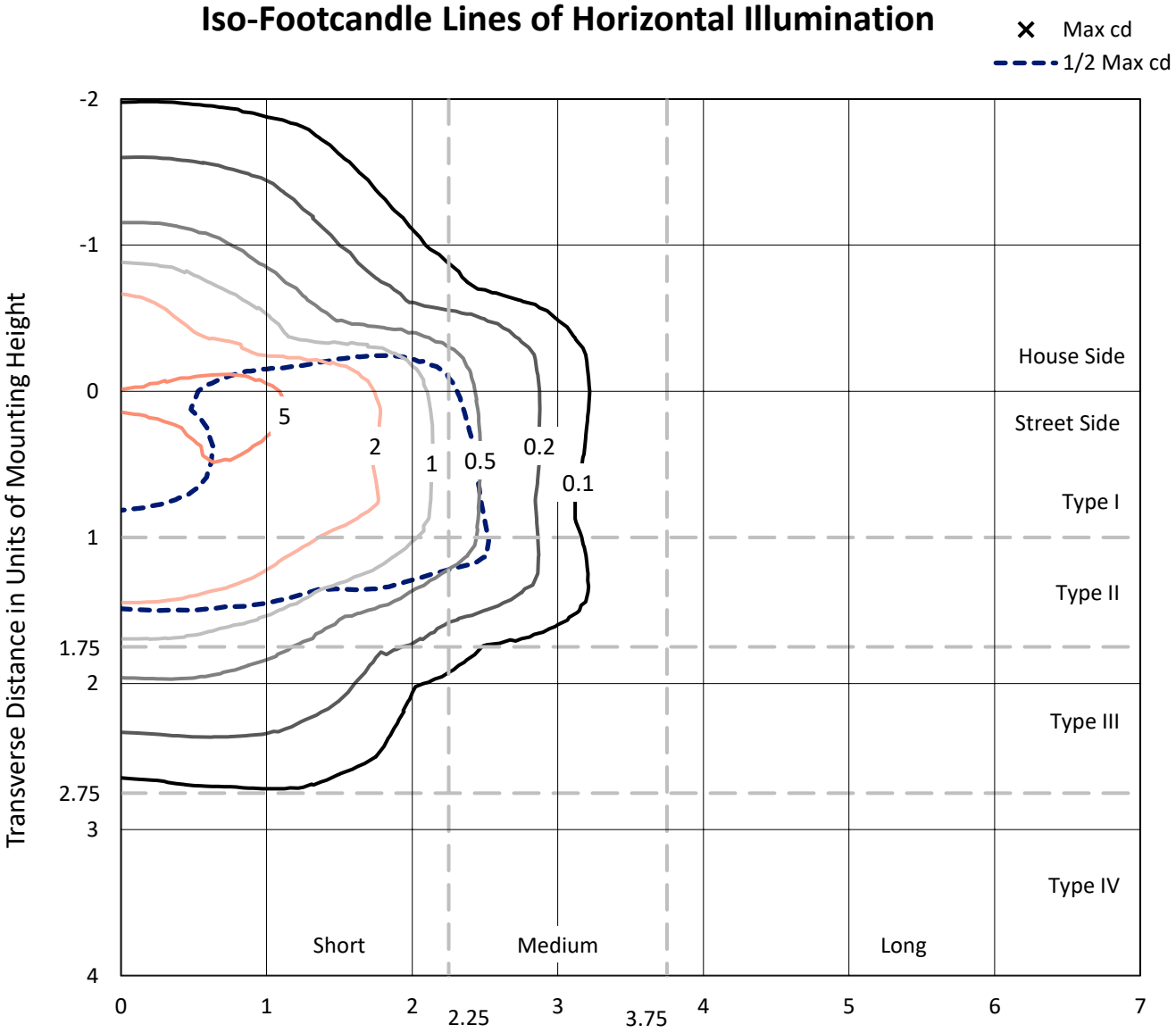
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



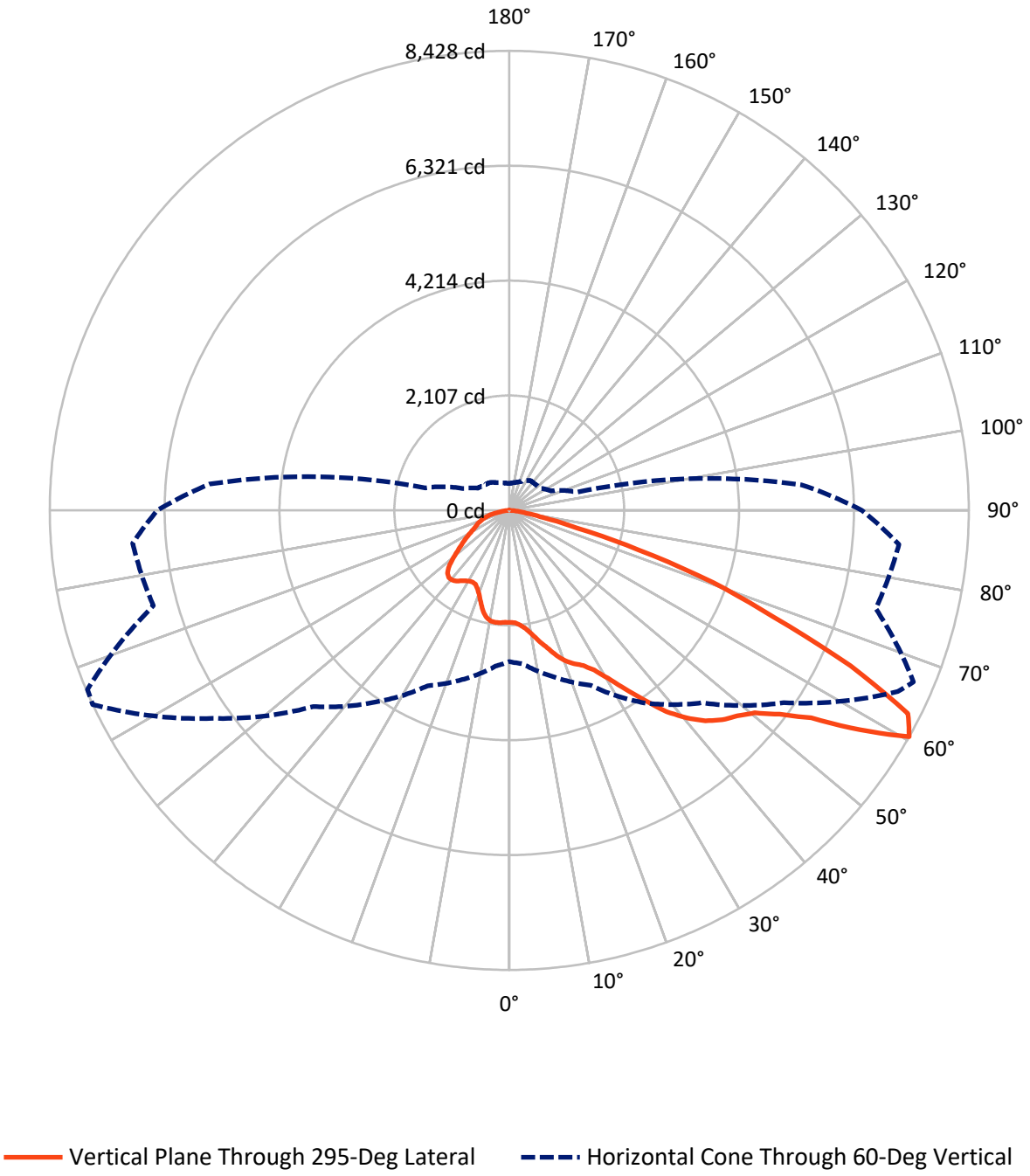
Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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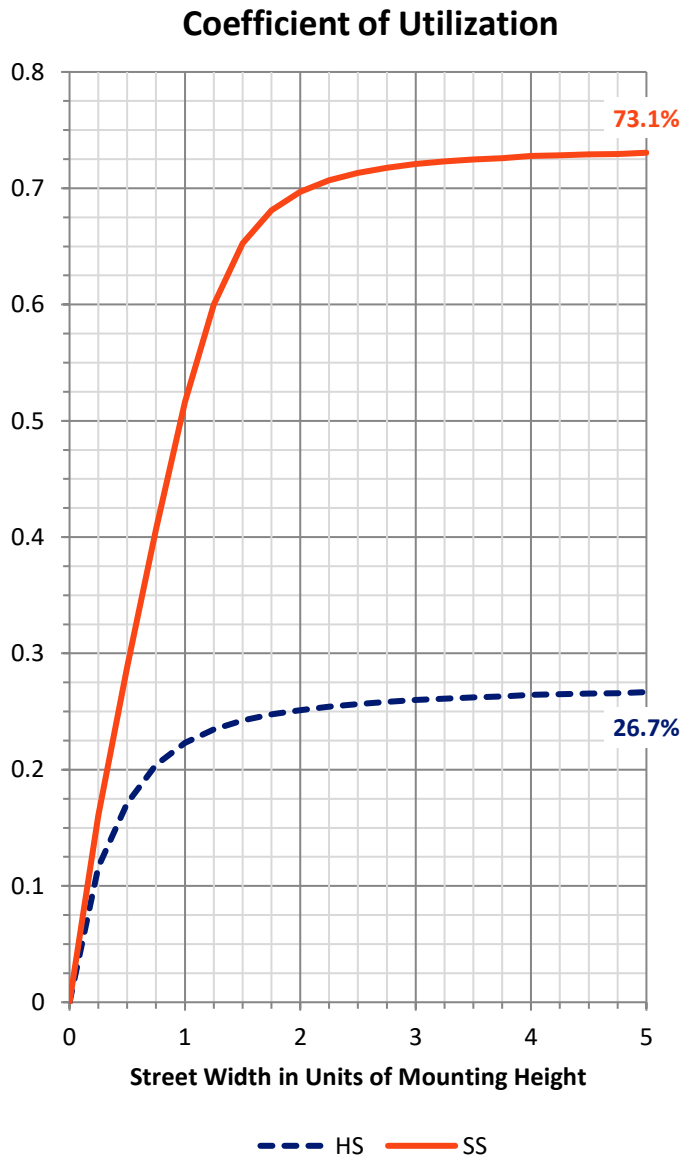
REPORT NUMBER: P1501547
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.3	0.0	3435.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9339.4	0.0	9339.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	12774.6	0.0	12774.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	1.5
10°-20°	555.5	4.3
20°-30°	1052.3	8.2
30°-40°	1855.1	14.5
40°-50°	2743.5	21.5
50°-60°	3221.7	25.2
60°-70°	2334.2	18.3
70°-80°	719.9	5.6
80°-90°	99.1	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°	12774.6	100.0
0°-180°	12774.6	100.0



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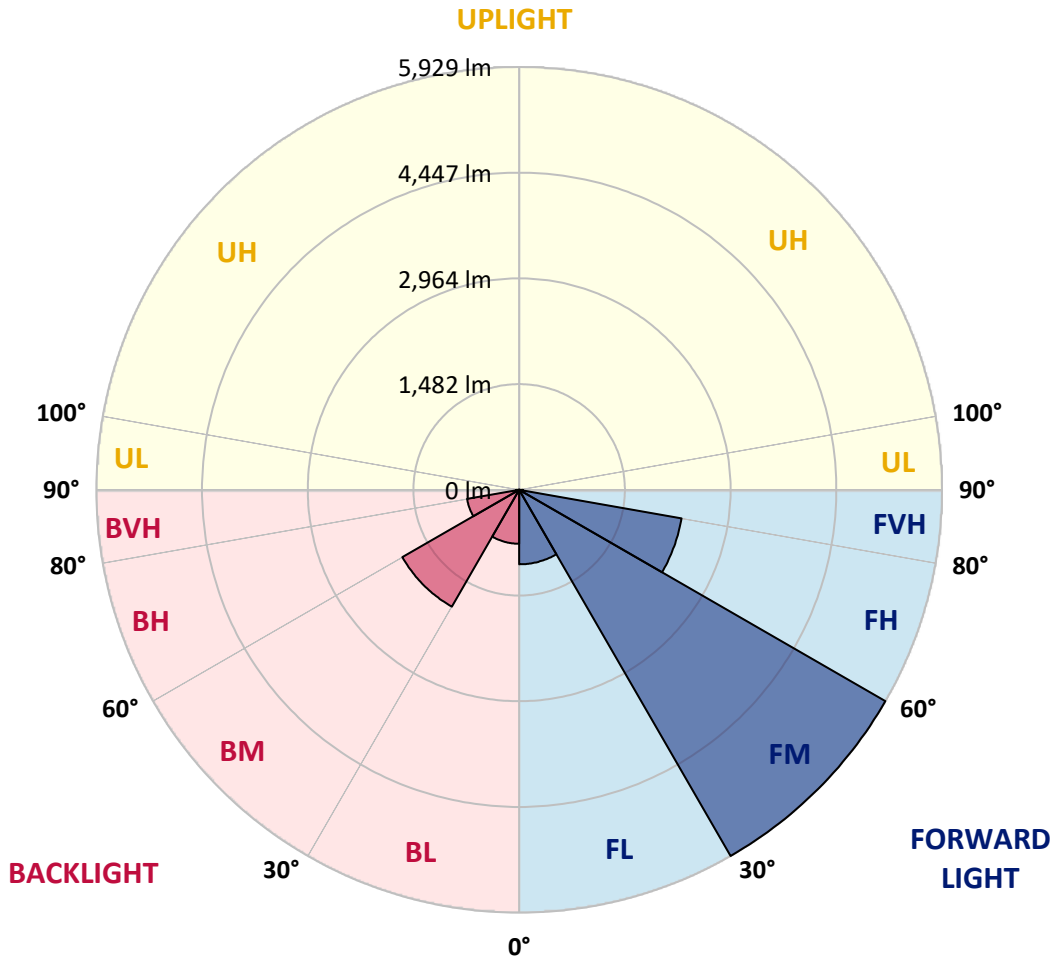
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1044.5	8.2			
FM	(30°-60°)	5928.8	46.4			
FH	(60°-80°)	2312.6	18.1			G2/5000
FVH	(80°-90°)	53.4	0.4			G1/100
BL	(0°-30°)	756.6	5.9	B2/1000		
BM	(30°-60°)	1891.6	14.8	B2/2500		
BH	(60°-80°)	741.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	45.6	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°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2096.1	2102.0	2093.2	2099.0	2099.0	2090.3	2087.4	2075.8	2081.6	2078.7	2075.8
5°	2145.6	2148.5	2142.7	2151.5	2151.5	2154.4	2151.5	2136.9	2136.9	2136.9	2131.1
7.5°	2131.1	2131.1	2134.0	2163.1	2192.2	2230.1	2230.1	2224.2	2230.1	2227.1	2200.9
10°	2008.8	2020.4	2046.6	2119.4	2189.3	2270.8	2326.1	2343.6	2343.6	2346.5	2302.8
12.5°	1790.5	1799.2	1860.3	1971.0	2116.5	2265.0	2398.9	2486.3	2495.0	2509.5	2451.3
15°	1595.4	1601.2	1644.9	1758.4	1924.4	2186.4	2439.7	2620.2	2649.3	2710.4	2623.1
17.5°	1612.9	1610.0	1621.6	1665.3	1784.6	2058.3	2430.9	2777.4	2829.8	2937.5	2861.8
20°	1717.7	1717.7	1726.4	1735.1	1778.8	1965.1	2366.9	2905.5	3007.4	3217.0	3129.6
22.5°	1883.6	1883.6	1880.7	1895.3	1895.3	2005.9	2369.8	3001.6	3152.9	3528.5	3444.1
25°	2113.6	2102.0	2102.0	2107.8	2081.6	2160.2	2442.6	3100.5	3298.5	3898.2	3825.5
27.5°	2372.7	2381.4	2375.6	2355.2	2320.3	2381.4	2617.3	3254.8	3461.5	4288.3	4259.2
30°	2655.1	2658.0	2663.8	2652.2	2623.1	2666.8	2890.9	3487.7	3677.0	4695.9	4760.0
32.5°	2931.7	2972.4	2957.9	2928.8	2940.4	3019.0	3228.6	3802.2	3997.2	5074.4	5301.5
35°	3283.9	3298.5	3356.7	3249.0	3251.9	3385.8	3659.5	4215.6	4404.8	5467.4	5843.0
37.5°	3796.3	3822.5	3796.3	3627.5	3601.3	3787.6	4078.7	4623.1	4760.0	5764.4	6346.6
40°	4300.0	4332.0	4375.7	4177.7	4011.8	4166.1	4474.7	4934.7	5077.3	5927.4	6681.4
42.5°	4716.3	4768.7	4722.1	4663.9	4512.5	4541.6	4751.2	5176.3	5318.9	6134.1	7019.1
45°	5068.6	5077.3	5097.7	5056.9	4981.2	4955.0	4987.1	5388.8	5546.0	6227.3	7185.1
47.5°	5214.1	5252.0	5269.5	5339.3	5417.9	5365.5	5187.9	5487.8	5630.5	6221.5	7237.5
50°	5135.5	5173.4	5266.5	5432.5	5621.7	5714.9	5423.8	5624.6	5784.8	6326.3	7345.2
52.5°	4928.8	4969.6	5121.0	5310.2	5627.5	5840.1	5755.6	5909.9	6064.2	6512.6	7525.7
55°	4428.1	4489.2	4701.8	5016.2	5452.9	5773.1	6105.0	6329.2	6498.0	6736.8	7712.0
57.5°	3700.3	3764.3	4003.0	4474.7	5129.7	5496.5	6206.9	7115.2	7190.9	7004.6	7729.5
60°	*2771.6*	*2824.0*	*3161.7*	*3540.1*	*4308.7*	*4990.0*	*6148.7*	*7860.5*	*8052.7*	*6958.0*	*7173.4*
62.5°	2195.1	2259.2	2559.0	2733.7	3283.9	4122.4	5944.9	8067.2	8233.2	6573.7	6399.0
65°	1714.8	1758.4	2037.9	2288.3	2422.2	2815.2	5094.8	7057.0	7205.5	5947.8	5281.1
67.5°	1132.5	1199.5	1531.3	1874.9	1944.7	1790.5	3505.2	5429.6	5499.4	4728.0	3971.0
70°	812.3	844.3	1091.7	1458.6	1563.4	1199.5	1909.8	4110.8	4131.1	3173.3	2675.5
72.5°	553.1	559.0	742.4	1117.9	1246.0	870.5	1051.0	2707.5	2637.6	1566.3	1531.3
75°	375.6	381.4	474.5	745.3	882.1	605.6	684.2	1476.0	1417.8	864.7	928.7
77.5°	253.3	259.1	326.1	500.7	588.1	419.2	500.7	780.2	765.7	573.5	497.8
80°	192.1	200.9	241.6	320.2	410.5	244.5	285.3	369.7	375.6	305.7	253.3
82.5°	107.7	119.4	145.6	163.0	264.9	136.8	136.8	221.3	212.5	189.2	136.8
85°	46.6	49.5	58.2	61.1	107.7	58.2	49.5	96.1	99.0	93.2	43.7
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.6	11.6	11.6	11.6
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°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2061.2	2078.7	2061.2	2052.5	2052.5	2037.9	2032.1	2032.1	2011.7	2020.4	2014.6
5°	2107.8	2113.6	2093.2	2067.0	2032.1	2003.0	1962.2	1909.8	1877.8	1874.9	1877.8
7.5°	2180.6	2183.5	2128.2	2069.9	1982.6	1877.8	1752.6	1650.7	1560.5	1545.9	1563.4
10°	2282.5	2276.6	2195.1	2058.3	1874.9	1653.6	1461.5	1368.3	1315.9	1313.0	1310.1
12.5°	2419.3	2381.4	2256.3	2008.8	1688.6	1432.4	1333.4	1327.6	1342.1	1353.8	1356.7
15°	2576.5	2527.0	2305.8	1912.7	1499.3	1350.8	1356.7	1406.2	1423.6	1435.3	1435.3
17.5°	2771.6	2707.5	2361.1	1775.9	1403.2	1368.3	1409.1	1455.7	1484.8	1496.4	1493.5
20°	3030.7	2896.7	2404.7	1644.9	1377.0	1397.4	1432.4	1478.9	1508.1	1522.6	1522.6
22.5°	3289.8	3123.8	2413.5	1554.6	1377.0	1400.3	1432.4	1478.9	1511.0	1525.5	1522.6
25°	3642.0	3415.0	2416.4	1490.6	1380.0	1385.8	1414.9	1455.7	1502.2	1516.8	1522.6
27.5°	4017.6	3735.2	2430.9	1476.0	1368.3	1365.4	1385.8	1423.6	1470.2	1508.1	1511.0
30°	4483.4	4096.2	2436.8	1490.6	1371.2	1333.4	1347.9	1385.8	1435.3	1473.1	1484.8
32.5°	4940.5	4431.0	2425.1	1522.6	1377.0	1313.0	1315.9	1339.2	1391.6	1417.8	1438.2
35°	5423.8	4786.2	2404.7	1566.3	1380.0	1304.3	1278.1	1289.7	1324.6	1327.6	1336.3
37.5°	5802.2	5051.1	2343.6	1624.5	1385.8	1272.2	1219.8	1211.1	1196.5	1167.4	1173.3
40°	6113.7	5228.7	2241.7	1653.6	1371.2	1234.4	1147.1	1106.3	1051.0	1007.3	1016.0
42.5°	6337.9	5348.1	2119.4	1659.4	1347.9	1170.3	1062.6	992.8	931.6	885.0	887.9
45°	6436.9	5336.4	1988.4	1615.8	1292.6	1091.7	984.0	917.1	850.1	800.6	794.8
47.5°	6439.8	5222.9	1807.9	1511.0	1199.5	1001.5	911.2	838.5	783.1	748.2	745.3
50°	6463.1	5158.8	1639.1	1359.6	1077.2	905.4	847.2	774.4	742.4	692.9	678.3
52.5°	6608.7	5263.6	1522.6	1193.6	963.6	835.5	791.9	727.8	675.4	643.4	640.5
55°	6844.5	5444.1	1458.6	1068.4	855.9	768.6	739.5	684.2	637.6	605.6	596.8
57.5°	6873.6	5537.3	1382.9	952.0	768.6	716.2	704.5	643.4	576.4	553.1	544.4
60°	*6466.0*	*5380.1*	*1289.7*	*844.3*	*704.5*	*675.4*	*669.6*	*588.1*	*532.8*	*503.7*	*492.0*
62.5°	5909.9	4987.1	1147.1	745.3	655.0	634.7	611.4	547.3	477.5	445.4	436.7
65°	4829.9	4192.3	975.3	678.3	605.6	582.3	576.4	489.1	442.5	425.1	422.1
67.5°	3659.5	3368.4	858.8	628.8	553.1	544.4	524.0	494.9	474.5	454.2	448.3
70°	2588.1	2430.9	730.7	564.8	500.7	486.2	570.6	538.6	465.8	439.6	436.7
72.5°	1569.2	1525.5	631.8	506.6	430.9	454.2	526.9	486.2	419.2	387.2	375.6
75°	989.8	905.4	529.9	430.9	343.5	369.7	460.0	433.8	361.0	329.0	320.2
77.5°	538.6	500.7	398.8	352.3	270.8	299.9	401.8	358.1	288.2	314.4	279.5
80°	235.8	262.0	264.9	203.8	180.5	221.3	288.2	279.5	221.3	224.2	186.3
82.5°	113.5	148.5	171.8	139.7	101.9	131.0	192.1	160.1	148.5	139.7	133.9
85°	34.9	55.3	75.7	67.0	46.6	55.3	90.3	87.3	104.8	90.3	84.4
87.5°	11.6	11.6	8.7	8.7	8.7	11.6	14.6	8.7	2.9	2.9	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°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2011.7	2014.6	2014.6	2017.5	2017.5	2026.3	2037.9	2049.6	2040.8	2052.5	2055.4
5°	1872.0	1886.5	1898.2	1941.8	1976.8	2005.9	2037.9	2067.0	2075.8	2081.6	2096.1
7.5°	1543.0	1583.7	1659.4	1758.4	1869.1	1976.8	2049.6	2125.3	2136.9	2151.5	2171.8
10°	1313.0	1330.5	1382.9	1484.8	1682.7	1895.3	2072.8	2192.2	2241.7	2270.8	2291.2
12.5°	1350.8	1339.2	1330.5	1345.0	1473.1	1746.8	2058.3	2288.3	2381.4	2413.5	2439.7
15°	1441.1	1429.4	1397.4	1356.7	1371.2	1589.6	2008.8	2378.5	2527.0	2579.4	2634.7
17.5°	1493.5	1481.9	1455.7	1412.0	1374.1	1458.6	1915.6	2460.1	2757.0	2821.1	2899.7
20°	1522.6	1511.0	1484.8	1441.1	1397.4	1409.1	1796.3	2561.9	3019.0	3120.9	3237.4
22.5°	1528.4	1513.9	1484.8	1441.1	1414.9	1406.2	1682.7	2623.1	3301.4	3458.6	3592.5
25°	1525.5	1499.3	1461.5	1429.4	1414.9	1412.0	1604.1	2658.0	3607.1	3857.5	4008.9
27.5°	1505.1	1473.1	1435.3	1412.0	1406.2	1423.6	1569.2	2698.8	3965.2	4285.4	4527.1
30°	1481.9	1435.3	1388.7	1380.0	1394.5	1449.8	1598.3	2713.3	4340.8	4751.2	4998.7
32.5°	1420.7	1385.8	1339.2	1336.3	1371.2	1470.2	1665.3	2693.0	4672.6	5217.1	5528.6
35°	1333.4	1313.0	1286.8	1295.5	1350.8	1487.7	1711.8	2628.9	4975.4	5650.8	6014.8
37.5°	1179.1	1193.6	1208.2	1228.6	1298.4	1484.8	1732.2	2527.0	5225.8	5997.3	6463.1
40°	1007.3	1056.8	1103.4	1155.8	1248.9	1461.5	1738.0	2401.8	5371.4	6259.3	6861.9
42.5°	899.6	946.2	1004.4	1080.1	1182.0	1409.1	1732.2	2262.1	5417.9	6439.8	7115.2
45°	800.6	855.9	928.7	1007.3	1123.8	1333.4	1679.8	2110.7	5441.2	6524.2	7222.9
47.5°	748.2	780.2	847.2	925.8	1048.1	1240.2	1577.9	2000.1	5406.3	6541.7	7353.9
50°	687.1	730.7	774.4	850.1	969.5	1123.8	1455.7	1936.0	5464.5	6713.5	7560.7
52.5°	640.5	663.8	710.4	780.2	867.6	1016.0	1339.2	1883.6	5624.6	6888.1	7776.1
55°	605.6	631.8	660.9	719.1	786.1	908.3	1219.8	1805.0	5811.0	7074.5	7991.5
57.5°	550.2	567.7	608.5	669.6	713.3	803.5	1080.1	1711.8	5796.4	6928.9	7618.9
60°	*500.7*	*518.2*	*561.9*	*623.0*	*649.2*	*710.4*	*943.3*	*1592.5*	*5516.9*	*6454.4*	*6931.8*
62.5°	445.4	465.8	518.2	561.9	585.2	631.8	800.6	1374.1	4934.7	5741.1	6128.3
65°	422.1	433.8	468.7	521.1	518.2	561.9	675.4	1080.1	3971.0	4387.3	4739.6
67.5°	448.3	465.8	460.0	474.5	465.8	489.1	605.6	867.6	3120.9	3304.3	3508.1
70°	442.5	483.3	503.7	474.5	407.6	433.8	524.0	692.9	2233.0	2215.5	2206.8
72.5°	387.2	428.0	486.2	515.3	398.8	361.0	454.2	599.7	1432.4	1426.5	1289.7
75°	329.0	358.1	428.0	465.8	343.5	291.1	390.1	509.5	855.9	867.6	774.4
77.5°	302.8	288.2	358.1	410.5	279.5	224.2	314.4	384.3	471.6	477.5	442.5
80°	218.3	209.6	267.8	299.9	212.5	160.1	177.6	238.7	253.3	227.1	235.8
82.5°	139.7	142.7	160.1	192.1	131.0	87.3	122.3	160.1	136.8	110.6	131.0
85°	90.3	101.9	84.4	99.0	40.8	40.8	52.4	69.9	46.6	32.0	34.9
87.5°	0.0	0.0	5.8	11.6	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: P1501547
CATALOG NUMBER: GSS-SB2C-835-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2064.1	2061.2	2061.2	2067.0	2081.6	2087.4	2096.1	2093.2	2102.0	2096.1
5°	2104.9	2107.8	2116.5	2119.4	2128.2	2139.8	2142.7	2139.8	2145.6	2145.6
7.5°	2186.4	2198.0	2192.2	2206.8	2195.1	2180.6	2157.3	2139.8	2125.3	2131.1
10°	2323.2	2317.4	2314.5	2288.3	2235.9	2160.2	2099.0	2032.1	2020.4	2008.8
12.5°	2474.6	2468.8	2468.8	2378.5	2230.1	2072.8	1933.1	1828.3	1793.4	1790.5
15°	2687.1	2649.3	2614.3	2425.1	2128.2	1860.3	1697.3	1615.8	1595.4	1595.4
17.5°	2952.1	2853.1	2794.9	2390.2	1962.2	1720.6	1624.5	1604.1	1598.3	1612.9
20°	3281.0	3030.7	2946.2	2311.6	1901.1	1738.0	1691.5	1694.4	1697.3	1717.7
22.5°	3642.0	3193.7	3054.0	2311.6	1962.2	1848.7	1825.4	1857.4	1866.1	1883.6
25°	4043.8	3339.3	3150.0	2433.8	2142.7	2058.3	2029.2	2061.2	2084.5	2113.6
27.5°	4495.1	3490.7	3316.0	2655.1	2375.6	2323.2	2291.2	2305.8	2337.8	2372.7
30°	4899.7	3743.9	3569.3	2992.8	2693.0	2628.9	2573.6	2596.9	2631.8	2655.1
32.5°	5257.8	4052.5	3904.1	3348.0	3056.9	2946.2	2885.1	2879.3	2949.1	2931.7
35°	5586.8	4416.4	4273.8	3752.7	3426.6	3289.8	3208.3	3313.1	3266.5	3283.9
37.5°	5845.9	4794.9	4681.4	4139.9	3810.9	3624.6	3575.1	3703.2	3776.0	3796.3
40°	6058.4	5123.9	5004.5	4524.2	4163.2	4026.3	4104.9	4317.5	4308.7	4300.0
42.5°	6221.5	5406.3	5275.3	4815.3	4500.9	4527.1	4588.2	4730.9	4765.8	4716.3
45°	6294.2	5583.9	5479.1	5045.3	4885.2	5036.6	5062.8	5123.9	5100.6	5068.6
47.5°	6378.7	5741.1	5630.5	5254.9	5301.5	5450.0	5397.6	5348.1	5263.6	5214.1
50°	6521.3	5927.4	5834.2	5560.6	5729.4	5680.0	5476.2	5365.5	5193.8	5135.5
52.5°	6792.1	6279.7	6209.8	6043.9	5930.3	5645.0	5397.6	5199.6	5007.4	4928.8
55°	7033.7	6757.1	6716.4	6495.1	5869.2	5461.6	5129.7	4824.0	4495.1	4428.1
57.5°	7173.4	7549.0	7595.6	6687.3	5589.7	5045.3	4556.2	4067.1	3755.6	3700.3
60°	6757.1	8404.9	8428.2	6649.4	5086.0	4294.2	3548.9	3202.4	2867.6	2771.6
62.5°	6183.6	8227.3	8207.0	6422.3	4049.6	3132.6	2695.9	2532.8	2273.7	2195.1
65°	5316.0	6853.2	6876.5	5548.9	2693.0	2265.0	2265.0	2058.3	1770.1	1714.8
67.5°	4332.0	5284.0	5231.6	3598.4	1653.6	1813.7	1901.1	1604.1	1199.5	1132.5
70°	2815.2	4035.1	3962.3	2075.8	1039.3	1511.0	1496.4	1205.3	858.8	812.3
72.5°	1211.1	2332.0	2480.4	1059.7	783.1	1216.9	1193.6	844.3	573.5	553.1
75°	730.7	1173.3	1278.1	675.4	570.6	917.1	826.8	535.7	390.1	375.6
77.5°	462.9	643.4	637.6	506.6	428.0	620.1	556.1	369.7	264.9	253.3
80°	267.8	317.3	329.0	317.3	288.2	442.5	355.2	267.8	206.7	192.1
82.5°	171.8	198.0	200.9	154.3	160.1	285.3	192.1	157.2	119.4	107.7
85°	75.7	84.4	81.5	52.4	52.4	116.5	67.0	64.0	46.6	46.6
87.5°	2.9	5.8	2.9	2.9	2.9	11.6	5.8	8.7	8.7	8.7
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

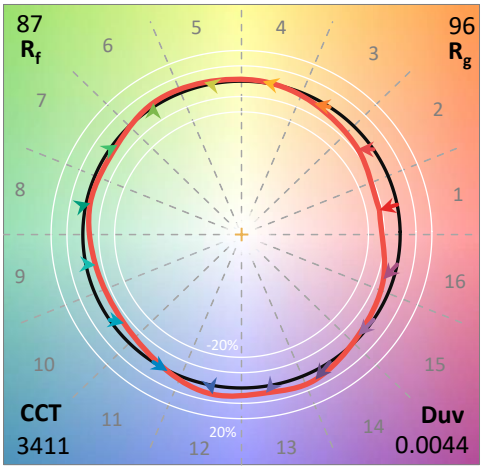
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
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-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

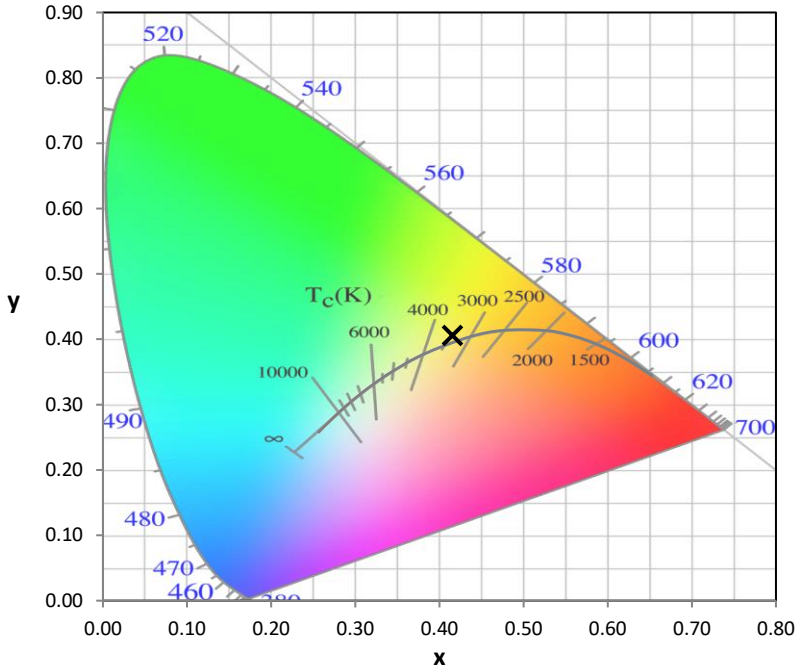
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

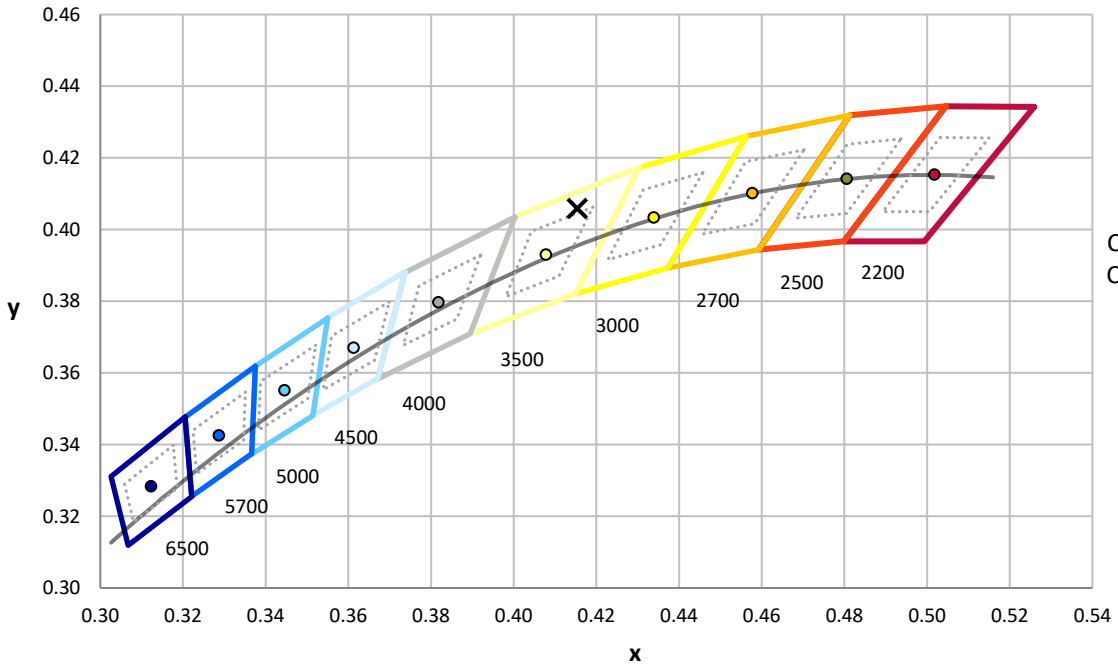
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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

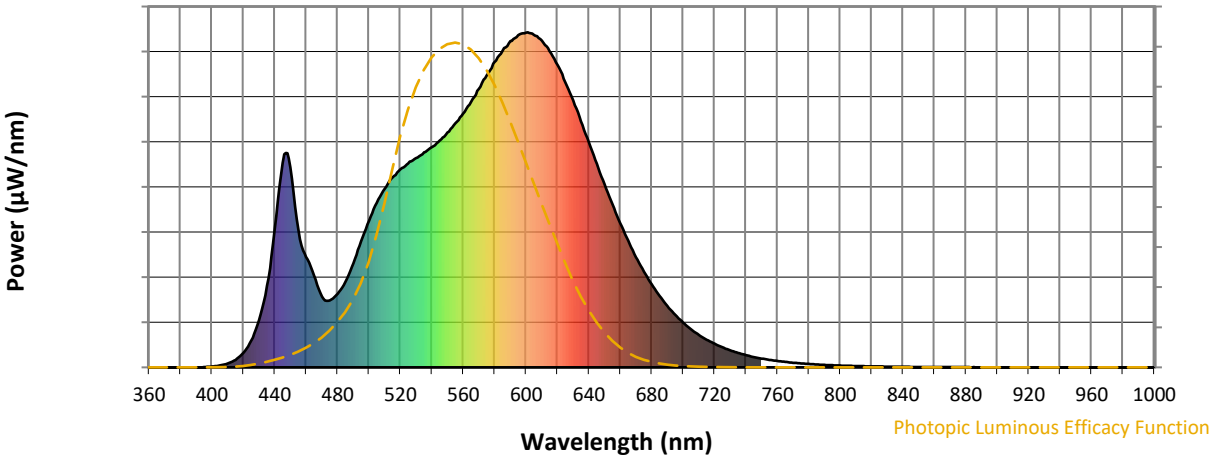


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

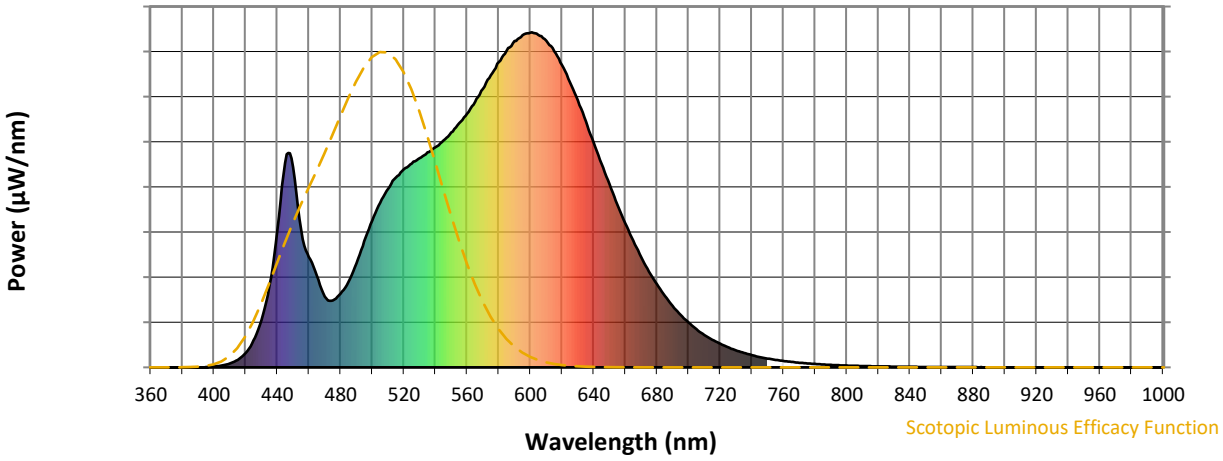


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

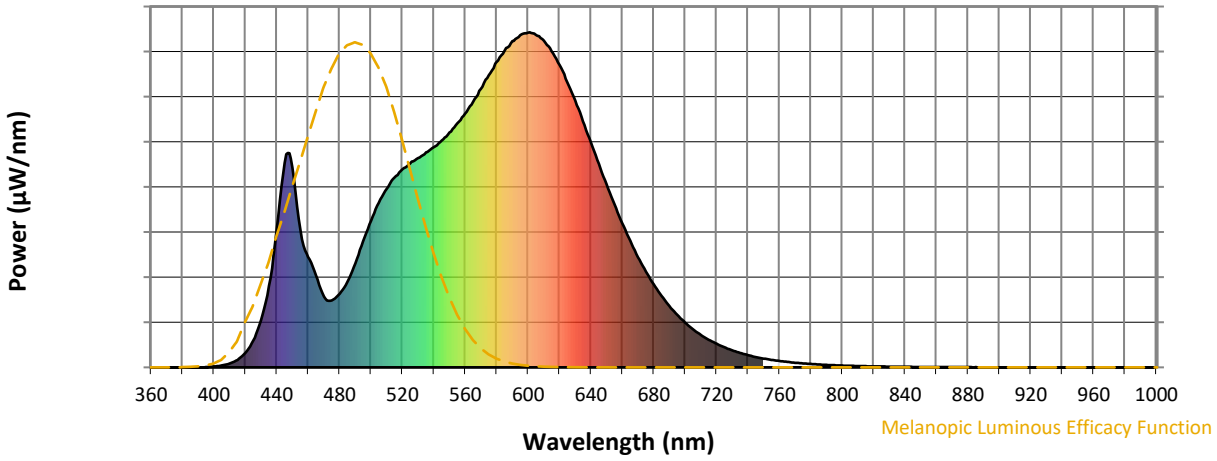


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

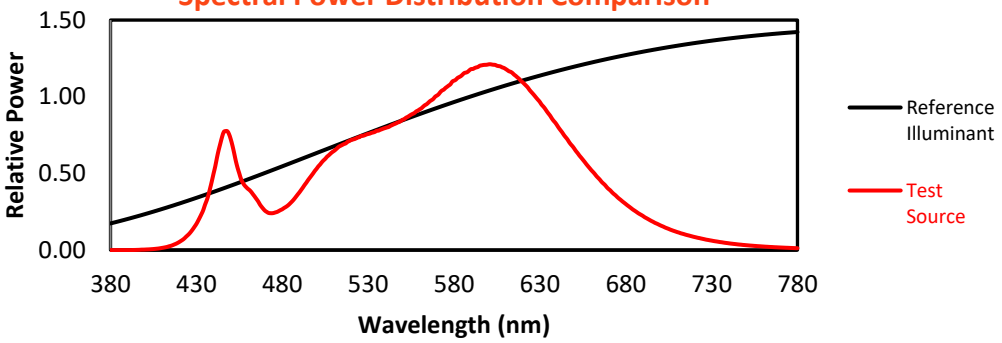
REPORT NUMBER: SP1-2407-184-10

TM-30-18

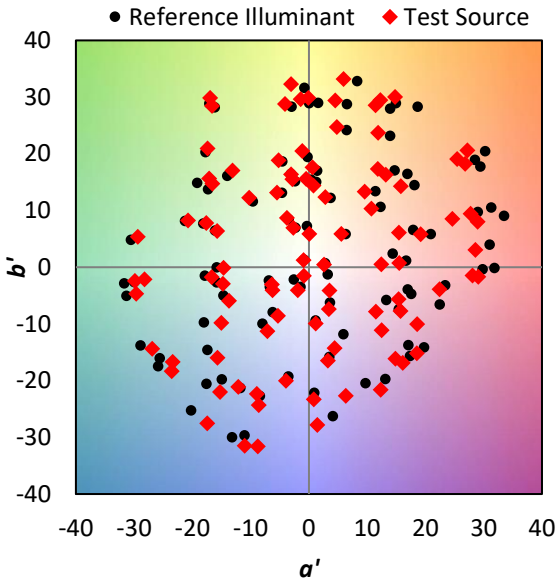
Summary

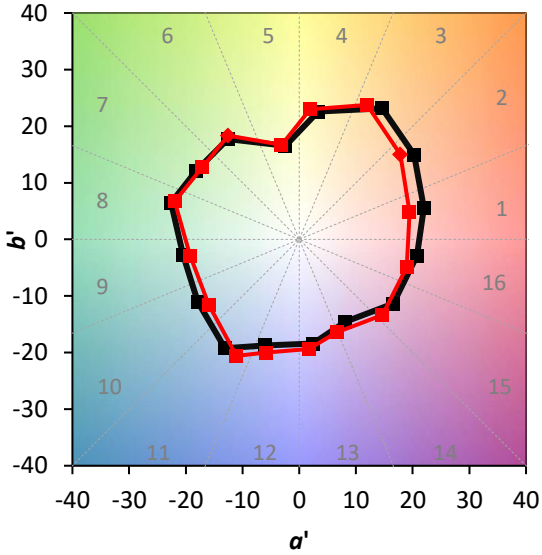
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

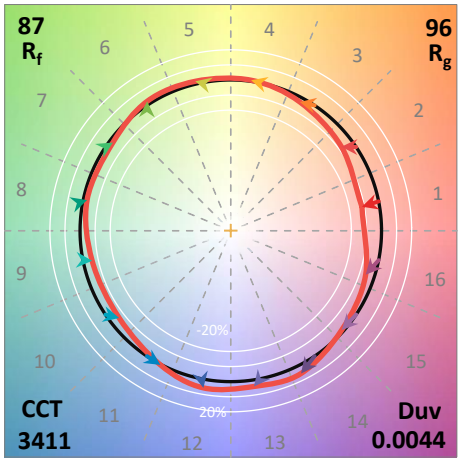
Spectral Power Distribution Comparison

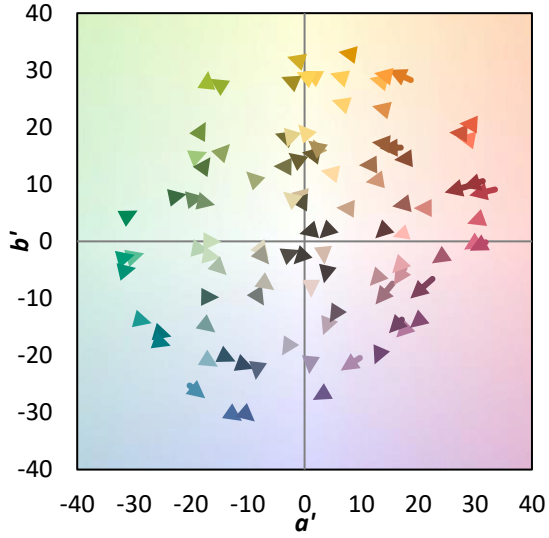


Color Vector Graphics







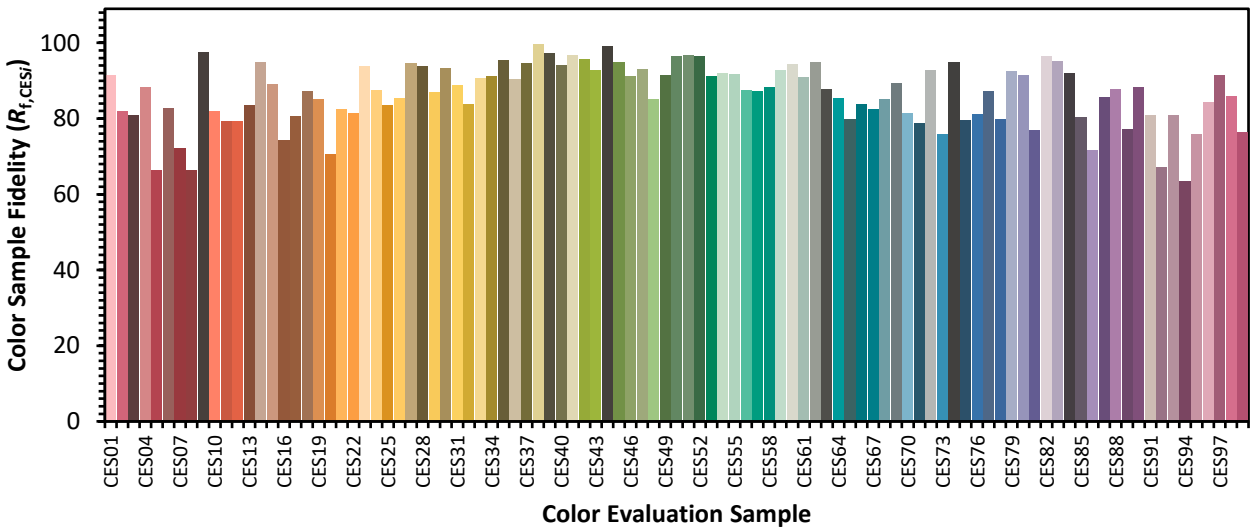


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Individual Sample Fidelity Index ($R_{f,i}$)

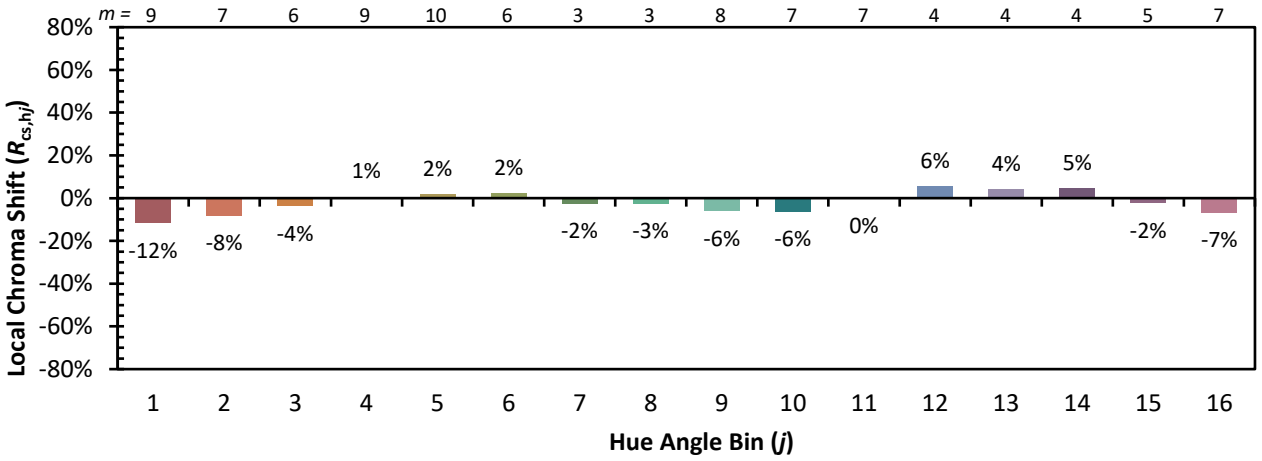
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	

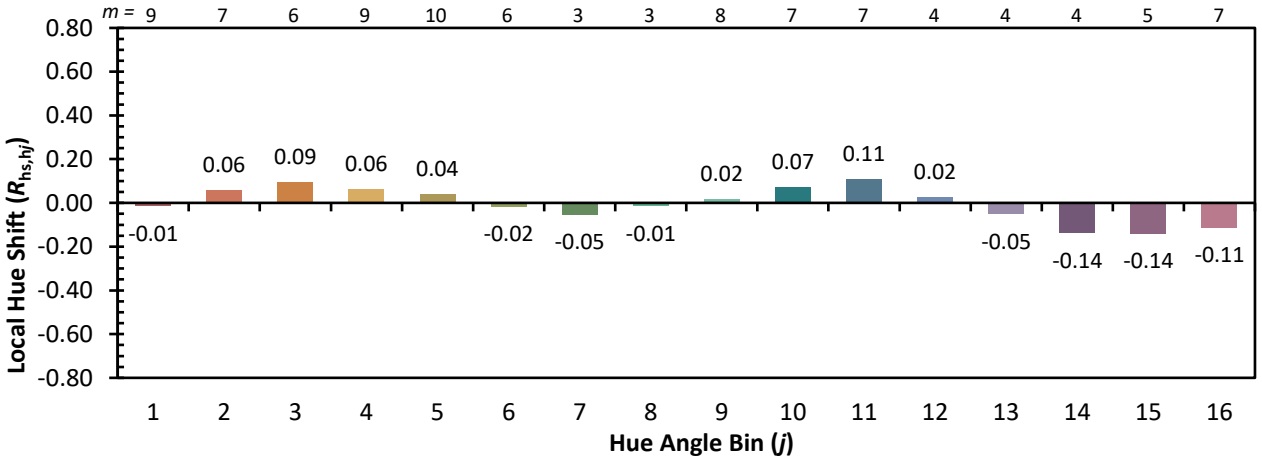


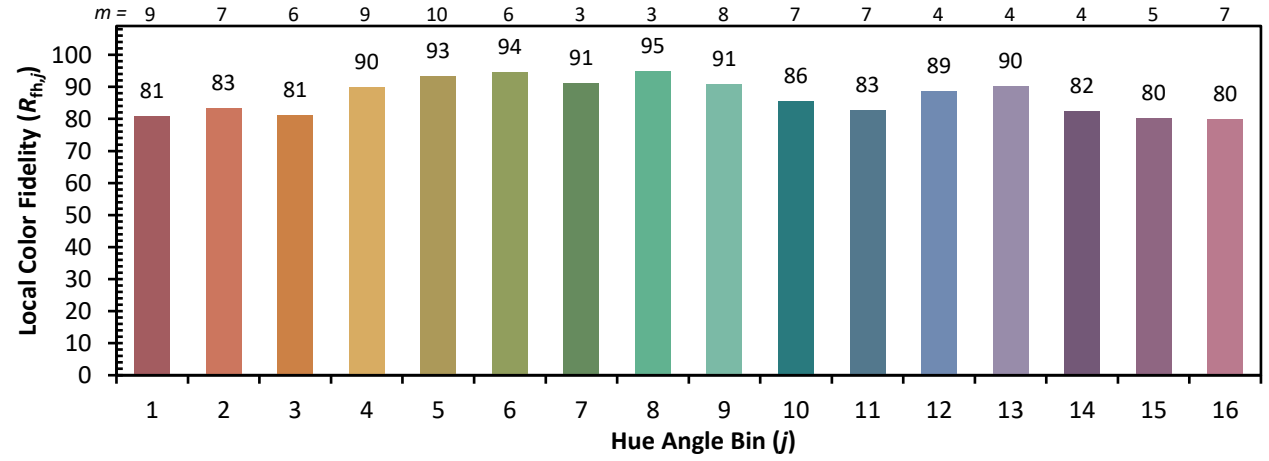
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Color Rendition by Hue-Angle Bin



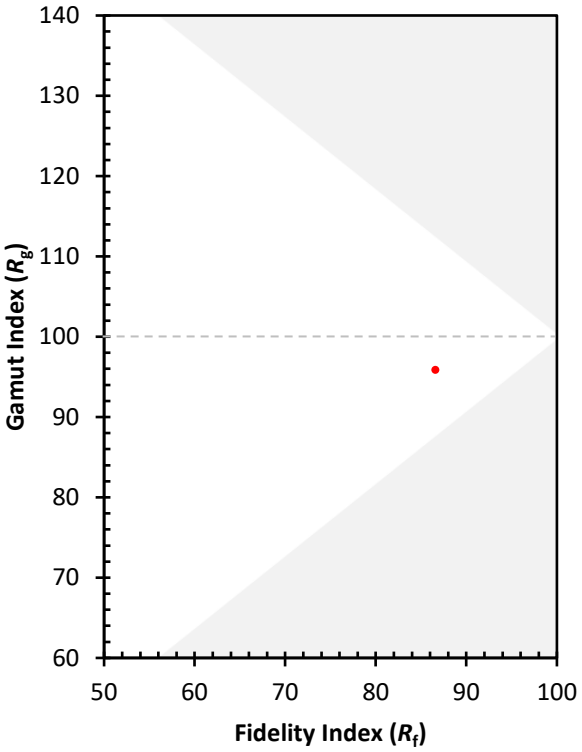


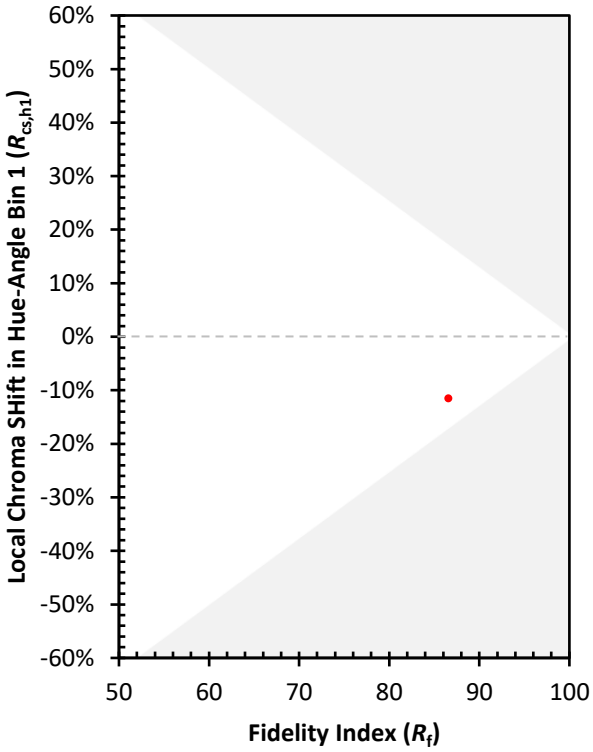


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Measure Comparisons





(END OF REPORT)