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: P1501597

Luminaire Tested: GSS-SB3A-850-U-T2LG

Issue Date: 07/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501597
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-850-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 80CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 5000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11939.6 lumens
Efficiency:	N/A
Efficacy:	140.5 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

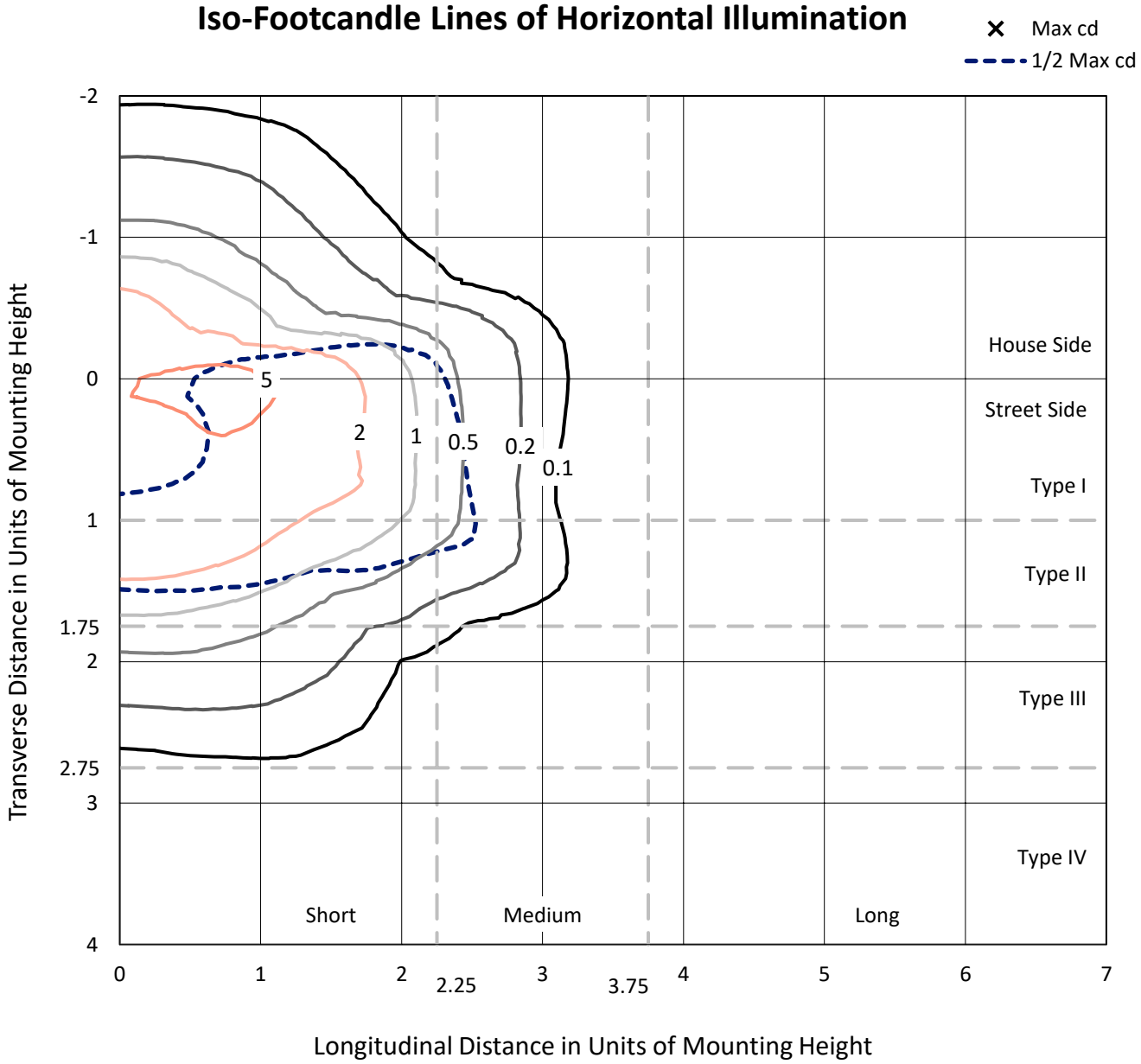
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



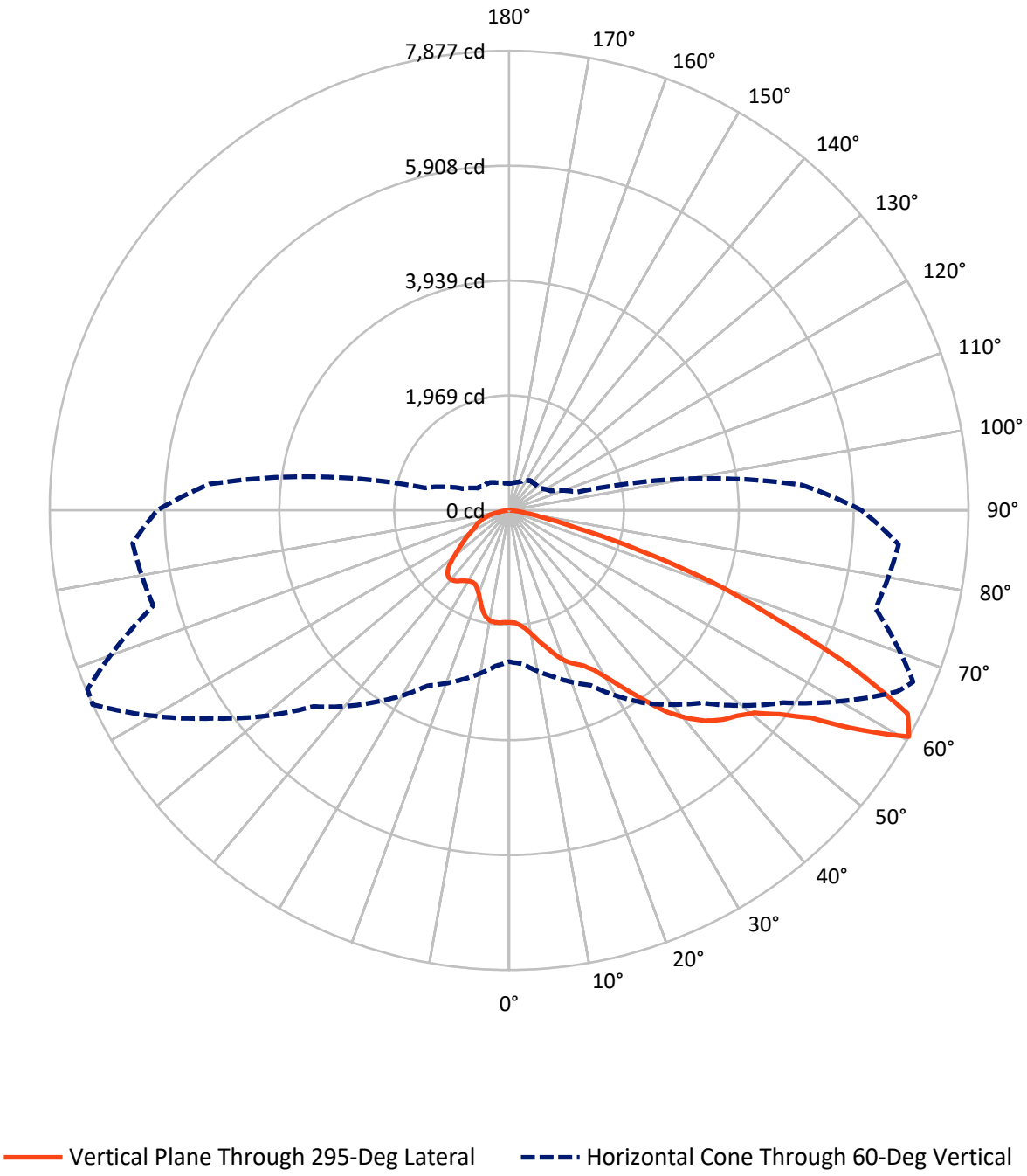
Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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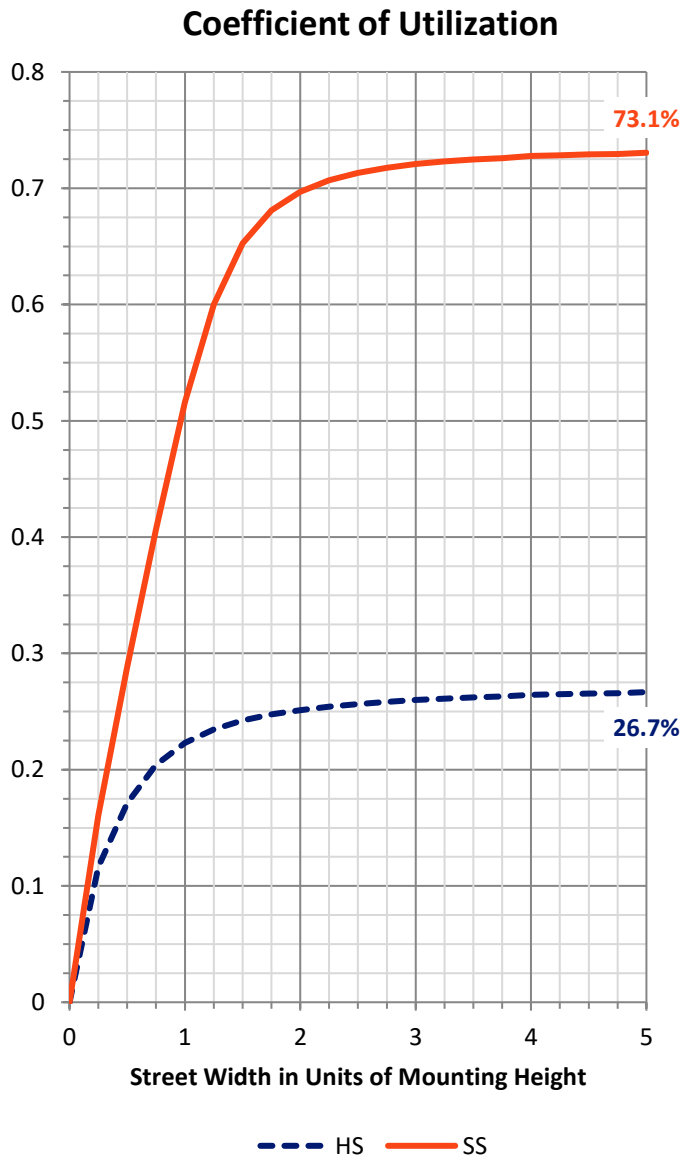
REPORT NUMBER: P1501597
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.7	0.0	3210.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8728.9	0.0	8728.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	11939.6	0.0	11939.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.5
10°-20°	519.2	4.3
20°-30°	983.5	8.2
30°-40°	1733.9	14.5
40°-50°	2564.2	21.5
50°-60°	3011.1	25.2
60°-70°	2181.7	18.3
70°-80°	672.8	5.6
80°-90°	92.6	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°	11939.6	100.0
0°-180°	11939.6	100.0



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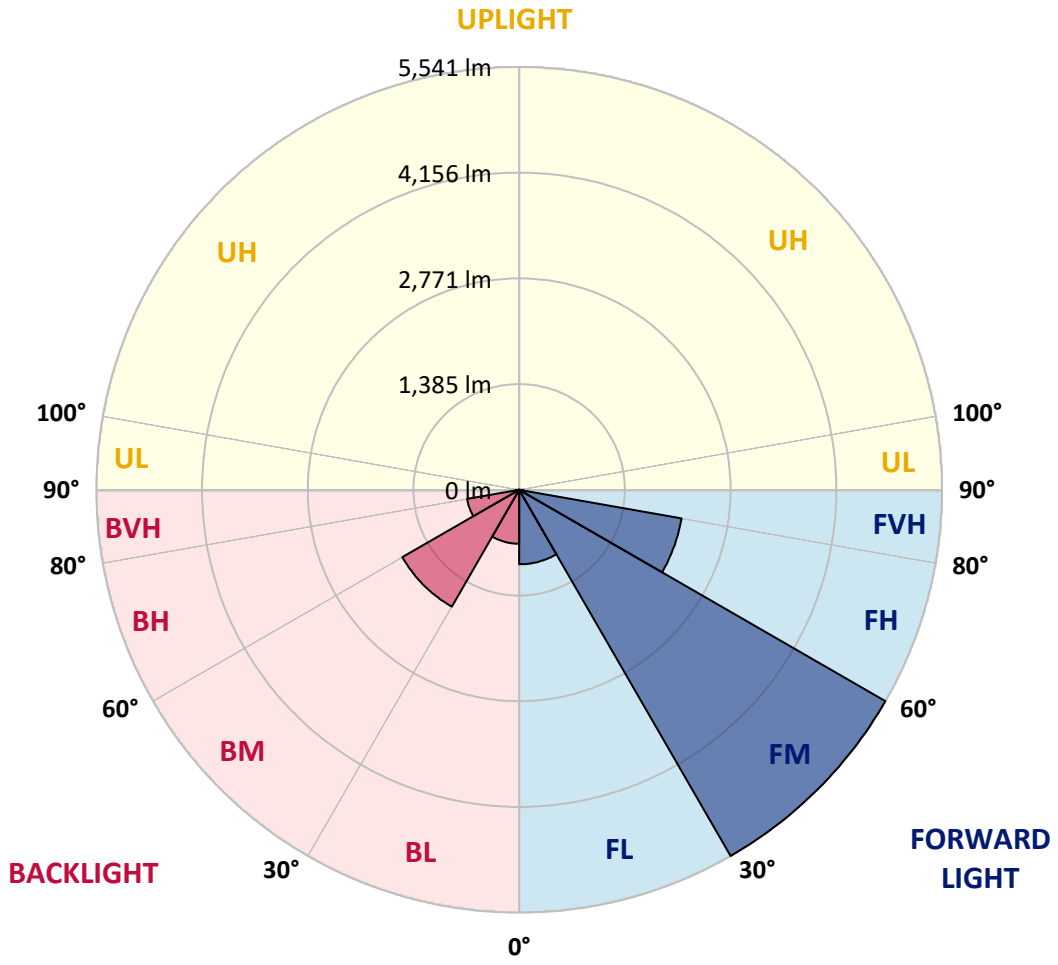
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	976.3	8.2			
FM	(30°-60°)	5541.3	46.4			
FH	(60°-80°)	2161.4	18.1			G2/5000
FVH	(80°-90°)	50.0	0.4			G1/100
BL	(0°-30°)	707.1	5.9	B2/1000		
BM	(30°-60°)	1767.9	14.8	B2/2500		
BH	(60°-80°)	693.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	42.7	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°	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0
2.5°	1959.1	1964.6	1956.4	1961.8	1961.8	1953.7	1951.0	1940.1	1945.5	1942.8	1940.1
5°	2005.4	2008.1	2002.7	2010.8	2010.8	2013.5	2010.8	1997.2	1997.2	1997.2	1991.8
7.5°	1991.8	1991.8	1994.5	2021.7	2048.9	2084.3	2084.3	2078.8	2084.3	2081.6	2057.1
10°	1877.5	1888.4	1912.9	1980.9	2046.2	2122.4	2174.1	2190.4	2190.4	2193.1	2152.3
12.5°	1673.4	1681.6	1738.7	1842.1	1978.2	2116.9	2242.1	2323.7	2331.9	2345.5	2291.1
15°	1491.1	1496.6	1537.4	1643.5	1798.6	2043.5	2280.2	2448.9	2476.1	2533.3	2451.6
17.5°	1507.4	1504.7	1515.6	1556.4	1668.0	1923.8	2272.0	2595.8	2644.8	2745.5	2674.7
20°	1605.4	1605.4	1613.6	1621.7	1662.5	1836.7	2212.2	2715.6	2810.8	3006.7	2925.1
22.5°	1760.5	1760.5	1757.8	1771.4	1771.4	1874.8	2214.9	2805.4	2946.8	3297.9	3218.9
25°	1975.4	1964.6	1964.6	1970.0	1945.5	2019.0	2282.9	2897.9	3082.9	3643.4	3575.4
27.5°	2217.6	2225.8	2220.3	2201.3	2168.6	2225.8	2446.2	3042.1	3235.3	4008.0	3980.8
30°	2481.6	2484.3	2489.7	2478.8	2451.6	2492.4	2702.0	3259.8	3436.6	4389.0	4448.8
32.5°	2740.1	2778.1	2764.5	2737.3	2748.2	2821.7	3017.6	3553.6	3735.9	4742.7	4955.0
35°	3069.3	3082.9	3137.3	3036.6	3039.4	3164.5	3420.3	3940.0	4116.9	5110.0	5461.1
37.5°	3548.2	3572.7	3548.2	3390.4	3365.9	3540.0	3812.1	4321.0	4448.8	5387.6	5931.8
40°	4018.9	4048.9	4089.7	3904.6	3749.5	3893.8	4182.2	4612.1	4745.4	5540.0	6244.7
42.5°	4408.0	4457.0	4413.5	4359.0	4217.6	4244.8	4440.7	4837.9	4971.3	5733.2	6560.3
45°	4737.3	4745.4	4764.5	4726.4	4655.6	4631.2	4661.1	5036.6	5183.5	5820.2	6715.4
47.5°	4873.3	4908.7	4925.0	4990.3	5063.8	5014.8	4848.8	5129.1	5262.4	5814.8	6764.4
50°	4799.9	4835.2	4922.3	5077.4	5254.3	5341.3	5069.2	5257.0	5406.6	5912.7	6865.1
52.5°	4606.7	4644.8	4786.2	4963.1	5259.7	5458.3	5379.4	5523.6	5667.9	6086.9	7033.8
55°	4138.6	4195.8	4394.4	4688.3	5096.4	5395.8	5705.9	5915.5	6073.3	6296.4	7207.9
57.5°	3458.4	3518.3	3741.4	4182.2	4794.4	5137.3	5801.2	6650.1	6720.9	6546.7	7224.3
60°	*2590.4*	*2639.4*	*2955.0*	*3308.7*	*4027.1*	*4663.8*	*5746.8*	*7346.7*	*7526.3*	*6503.2*	*6704.6*
62.5°	2051.6	2111.5	2391.8	2555.0	3069.3	3852.9	5556.3	7539.9	7695.0	6144.0	5980.8
65°	1602.7	1643.5	1904.7	2138.7	2263.9	2631.2	4761.8	6595.7	6734.5	5559.0	4935.9
67.5°	1058.5	1121.1	1431.2	1752.3	1817.6	1673.4	3276.1	5074.7	5140.0	4418.9	3711.5
70°	759.2	789.1	1020.4	1363.2	1461.2	1121.1	1785.0	3842.1	3861.1	2965.9	2500.6
72.5°	517.0	522.4	693.9	1044.9	1164.6	813.6	982.3	2530.5	2465.2	1463.9	1431.2
75°	351.0	356.5	443.5	696.6	824.5	566.0	639.4	1379.5	1325.1	808.1	868.0
77.5°	236.7	242.2	304.8	468.0	549.6	391.8	468.0	729.2	715.6	536.0	465.3
80°	179.6	187.7	225.8	299.3	383.7	228.6	266.7	345.6	351.0	285.7	236.7
82.5°	100.7	111.6	136.1	152.4	247.6	127.9	127.9	206.8	198.6	176.9	127.9
85°	43.5	46.3	54.4	57.1	100.7	54.4	46.3	89.8	92.5	87.1	40.8
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.9	10.9	10.9	10.9
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°	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0
2.5°	1926.5	1942.8	1926.5	1918.3	1918.3	1904.7	1899.3	1899.3	1880.2	1888.4	1882.9
5°	1970.0	1975.4	1956.4	1931.9	1899.3	1872.1	1834.0	1785.0	1755.0	1752.3	1755.0
7.5°	2038.0	2040.8	1989.1	1934.6	1853.0	1755.0	1638.0	1542.8	1458.5	1444.9	1461.2
10°	2133.3	2127.8	2051.6	1923.8	1752.3	1545.5	1365.9	1278.9	1229.9	1227.2	1224.5
12.5°	2261.2	2225.8	2108.8	1877.5	1578.2	1338.7	1246.2	1240.8	1254.4	1265.3	1268.0
15°	2408.1	2361.8	2155.0	1787.7	1401.3	1262.5	1268.0	1314.2	1330.6	1341.5	1341.5
17.5°	2590.4	2530.5	2206.7	1659.8	1311.5	1278.9	1317.0	1360.5	1387.7	1398.6	1395.9
20°	2832.6	2707.4	2247.6	1537.4	1287.0	1306.1	1338.7	1382.3	1409.5	1423.1	1423.1
22.5°	3074.7	2919.6	2255.7	1453.0	1287.0	1308.8	1338.7	1382.3	1412.2	1425.8	1423.1
25°	3404.0	3191.7	2258.4	1393.2	1289.8	1295.2	1322.4	1360.5	1404.0	1417.6	1423.1
27.5°	3755.0	3491.0	2272.0	1379.5	1278.9	1276.2	1295.2	1330.6	1374.1	1409.5	1412.2
30°	4190.3	3828.5	2277.5	1393.2	1281.6	1246.2	1259.8	1295.2	1341.5	1376.8	1387.7
32.5°	4617.5	4141.4	2266.6	1423.1	1287.0	1227.2	1229.9	1251.7	1300.6	1325.1	1344.2
35°	5069.2	4473.3	2247.6	1463.9	1289.8	1219.0	1194.5	1205.4	1238.1	1240.8	1248.9
37.5°	5423.0	4720.9	2190.4	1518.3	1295.2	1189.1	1140.1	1131.9	1118.3	1091.1	1096.6
40°	5714.1	4886.9	2095.2	1545.5	1281.6	1153.7	1072.1	1034.0	982.3	941.5	949.6
42.5°	5923.6	4998.5	1980.9	1551.0	1259.8	1093.8	993.2	927.9	870.7	827.2	829.9
45°	6016.1	4987.6	1858.4	1510.2	1208.1	1020.4	919.7	857.1	794.5	748.3	742.8
47.5°	6018.9	4881.5	1689.7	1412.2	1121.1	936.0	851.7	783.6	732.0	699.3	696.6
50°	6040.6	4821.6	1531.9	1270.7	1006.8	846.2	791.8	723.8	693.9	647.6	634.0
52.5°	6176.7	4919.6	1423.1	1115.6	900.7	780.9	740.1	680.3	631.3	601.3	598.6
55°	6397.1	5088.3	1363.2	998.6	800.0	718.3	691.1	639.4	595.9	566.0	557.8
57.5°	6424.3	5175.4	1292.5	889.8	718.3	669.4	658.5	601.3	538.8	517.0	508.8
60°	*6043.4*	*5028.4*	*1205.4*	*789.1*	*658.5*	*631.3*	*625.8*	*549.6*	*497.9*	*470.7*	*459.8*
62.5°	5523.6	4661.1	1072.1	696.6	612.2	593.2	571.4	511.5	446.2	416.3	408.2
65°	4514.1	3918.2	911.5	634.0	566.0	544.2	538.8	457.1	413.6	397.3	394.5
67.5°	3420.3	3148.2	802.7	587.7	517.0	508.8	489.8	462.6	443.5	424.5	419.0
70°	2419.0	2272.0	683.0	527.9	468.0	454.4	533.3	503.4	435.4	410.9	408.2
72.5°	1466.6	1425.8	590.5	473.5	402.7	424.5	492.5	454.4	391.8	361.9	351.0
75°	925.1	846.2	495.2	402.7	321.1	345.6	429.9	405.4	337.4	307.5	299.3
77.5°	503.4	468.0	372.8	329.2	253.1	280.3	375.5	334.7	269.4	293.9	261.2
80°	220.4	244.9	247.6	190.5	168.7	206.8	269.4	261.2	206.8	209.5	174.1
82.5°	106.1	138.8	160.5	130.6	95.2	122.4	179.6	149.7	138.8	130.6	125.2
85°	32.7	51.7	70.7	62.6	43.5	51.7	84.4	81.6	98.0	84.4	78.9
87.5°	10.9	10.9	8.2	8.2	8.2	10.9	13.6	8.2	2.7	2.7	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°	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0
2.5°	1880.2	1882.9	1882.9	1885.7	1885.7	1893.8	1904.7	1915.6	1907.4	1918.3	1921.0
5°	1749.6	1763.2	1774.1	1814.9	1847.6	1874.8	1904.7	1931.9	1940.1	1945.5	1959.1
7.5°	1442.1	1480.2	1551.0	1643.5	1746.9	1847.6	1915.6	1986.3	1997.2	2010.8	2029.9
10°	1227.2	1243.5	1292.5	1387.7	1572.7	1771.4	1937.4	2048.9	2095.2	2122.4	2141.4
12.5°	1262.5	1251.7	1243.5	1257.1	1376.8	1632.6	1923.8	2138.7	2225.8	2255.7	2280.2
15°	1346.9	1336.0	1306.1	1268.0	1281.6	1485.7	1877.5	2223.1	2361.8	2410.8	2462.5
17.5°	1395.9	1385.0	1360.5	1319.7	1284.3	1363.2	1790.4	2299.2	2576.8	2636.7	2710.1
20°	1423.1	1412.2	1387.7	1346.9	1306.1	1317.0	1678.9	2394.5	2821.7	2916.9	3025.8
22.5°	1428.5	1414.9	1387.7	1346.9	1322.4	1314.2	1572.7	2451.6	3085.6	3232.6	3357.7
25°	1425.8	1401.3	1365.9	1336.0	1322.4	1319.7	1499.3	2484.3	3371.3	3605.3	3746.8
27.5°	1406.8	1376.8	1341.5	1319.7	1314.2	1330.6	1466.6	2522.4	3706.0	4005.3	4231.2
30°	1385.0	1341.5	1297.9	1289.8	1303.4	1355.1	1493.8	2536.0	4057.0	4440.7	4672.0
32.5°	1327.9	1295.2	1251.7	1248.9	1281.6	1374.1	1556.4	2516.9	4367.2	4876.0	5167.2
35°	1246.2	1227.2	1202.7	1210.8	1262.5	1390.4	1600.0	2457.1	4650.2	5281.5	5621.6
37.5°	1102.0	1115.6	1129.2	1148.3	1213.6	1387.7	1619.0	2361.8	4884.2	5605.3	6040.6
40°	941.5	987.7	1031.3	1080.2	1167.3	1365.9	1624.4	2244.8	5020.3	5850.2	6413.4
42.5°	840.8	884.3	938.7	1009.5	1104.7	1317.0	1619.0	2114.2	5063.8	6018.9	6650.1
45°	748.3	800.0	868.0	941.5	1050.3	1246.2	1570.0	1972.7	5085.6	6097.8	6750.8
47.5°	699.3	729.2	791.8	865.3	979.6	1159.1	1474.8	1869.3	5052.9	6114.1	6873.3
50°	642.2	683.0	723.8	794.5	906.1	1050.3	1360.5	1809.5	5107.3	6274.6	7066.4
52.5°	598.6	620.4	663.9	729.2	810.9	949.6	1251.7	1760.5	5257.0	6437.9	7267.8
55°	566.0	590.5	617.7	672.1	734.7	849.0	1140.1	1687.0	5431.1	6612.0	7469.2
57.5°	514.3	530.6	568.7	625.8	666.6	751.0	1009.5	1600.0	5417.5	6476.0	7120.9
60°	*468.0*	*484.3*	*525.2*	*582.3*	*606.8*	*663.9*	*881.6*	*1488.4*	*5156.3*	*6032.5*	*6478.7*
62.5°	416.3	435.4	484.3	525.2	546.9	590.5	748.3	1284.3	4612.1	5365.8	5727.7
65°	394.5	405.4	438.1	487.1	484.3	525.2	631.3	1009.5	3711.5	4100.6	4429.8
67.5°	419.0	435.4	429.9	443.5	435.4	457.1	566.0	810.9	2916.9	3088.3	3278.8
70°	413.6	451.7	470.7	443.5	380.9	405.4	489.8	647.6	2087.0	2070.7	2062.5
72.5°	361.9	400.0	454.4	481.6	372.8	337.4	424.5	560.5	1338.7	1333.3	1205.4
75°	307.5	334.7	400.0	435.4	321.1	272.1	364.6	476.2	800.0	810.9	723.8
77.5°	283.0	269.4	334.7	383.7	261.2	209.5	293.9	359.2	440.8	446.2	413.6
80°	204.1	195.9	250.3	280.3	198.6	149.7	166.0	223.1	236.7	212.2	220.4
82.5°	130.6	133.3	149.7	179.6	122.4	81.6	114.3	149.7	127.9	103.4	122.4
85°	84.4	95.2	78.9	92.5	38.1	38.1	49.0	65.3	43.5	29.9	32.7
87.5°	0.0	0.0	5.4	10.9	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: P1501597
CATALOG NUMBER: GSS-SB3A-850-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1921.0	1921.0	*1921.0*	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0	1921.0
2.5°	1929.2	1926.5	*1926.5*	1931.9	1945.5	1951.0	1959.1	1956.4	1964.6	1959.1
5°	1967.3	1970.0	*1978.2*	1980.9	1989.1	1999.9	2002.7	1999.9	2005.4	2005.4
7.5°	2043.5	2054.4	*2048.9*	2062.5	2051.6	2038.0	2016.3	1999.9	1986.3	1991.8
10°	2171.4	2165.9	*2163.2*	2138.7	2089.7	2019.0	1961.8	1899.3	1888.4	1877.5
12.5°	2312.9	2307.4	*2307.4*	2223.1	2084.3	1937.4	1806.7	1708.8	1676.1	1673.4
15°	2511.5	2476.1	*2443.5*	2266.6	1989.1	1738.7	1586.3	1510.2	1491.1	1491.1
17.5°	2759.1	2666.6	*2612.2*	2233.9	1834.0	1608.1	1518.3	1499.3	1493.8	1507.4
20°	3066.6	2832.6	*2753.7*	2160.5	1776.8	1624.4	1580.9	1583.6	1586.3	1605.4
22.5°	3404.0	2984.9	*2854.3*	2160.5	1834.0	1727.8	1706.1	1736.0	1744.2	1760.5
25°	3779.5	3121.0	*2944.1*	2274.8	2002.7	1923.8	1896.5	1926.5	1948.2	1975.4
27.5°	4201.2	3262.5	*3099.2*	2481.6	2220.3	2171.4	2141.4	2155.0	2185.0	2217.6
30°	4579.5	3499.2	*3336.0*	2797.2	2516.9	2457.1	2405.4	2427.1	2459.8	2481.6
32.5°	4914.1	3787.6	*3648.9*	3129.2	2857.1	2753.7	2696.5	2691.1	2756.4	2740.1
35°	5221.6	4127.8	*3994.4*	3507.4	3202.6	3074.7	2998.5	3096.5	3053.0	3069.3
37.5°	5463.8	4481.5	*4375.4*	3869.3	3561.8	3387.7	3341.4	3461.1	3529.1	3548.2
40°	5662.4	4789.0	*4677.4*	4228.4	3891.0	3763.1	3836.6	4035.3	4027.1	4018.9
42.5°	5814.8	5052.9	*4930.5*	4500.5	4206.7	4231.2	4288.3	4421.6	4454.3	4408.0
45°	5882.8	5218.9	*5120.9*	4715.5	4565.8	4707.3	4731.8	4789.0	4767.2	4737.3
47.5°	5961.7	5365.8	*5262.4*	4911.4	4955.0	5093.7	5044.7	4998.5	4919.6	4873.3
50°	6095.1	5540.0	*5452.9*	5197.1	5354.9	5308.7	5118.2	5014.8	4854.3	4799.9
52.5°	6348.1	5869.2	*5803.9*	5648.8	5542.7	5276.0	5044.7	4859.7	4680.1	4606.7
55°	6573.9	6315.5	*6277.4*	6070.6	5485.5	5104.6	4794.4	4508.7	4201.2	4138.6
57.5°	6704.6	7055.6	*7099.1*	6250.1	5224.3	4715.5	4258.4	3801.2	3510.1	3458.4
60°	*6315.5*	*7855.5*	*7877.3*	*6214.8*	*4753.6*	*4013.5*	*3316.9*	*2993.1*	*2680.2*	*2590.4*
62.5°	5779.4	7689.6	*7670.5*	6002.5	3784.9	2927.8	2519.7	2367.3	2125.1	2051.6
65°	4968.6	6405.2	*6427.0*	5186.2	2516.9	2116.9	2116.9	1923.8	1654.4	1602.7
67.5°	4048.9	4938.6	*4889.6*	3363.2	1545.5	1695.2	1776.8	1499.3	1121.1	1058.5
70°	2631.2	3771.3	*3703.3*	1940.1	971.4	1412.2	1398.6	1126.5	802.7	759.2
72.5°	1131.9	2179.5	*2318.3*	990.4	732.0	1137.4	1115.6	789.1	536.0	517.0
75°	683.0	1096.6	*1194.5*	631.3	533.3	857.1	772.8	500.7	364.6	351.0
77.5°	432.6	601.3	*595.9*	473.5	400.0	579.6	519.7	345.6	247.6	236.7
80°	250.3	296.6	*307.5*	296.6	269.4	413.6	332.0	250.3	193.2	179.6
82.5°	160.5	185.0	*187.7*	144.2	149.7	266.7	179.6	146.9	111.6	100.7
85°	70.7	78.9	*76.2*	49.0	49.0	108.8	62.6	59.9	43.5	43.5
87.5°	2.7	5.4	*2.7*	2.7	2.7	10.9	5.4	8.2	8.2	8.2
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

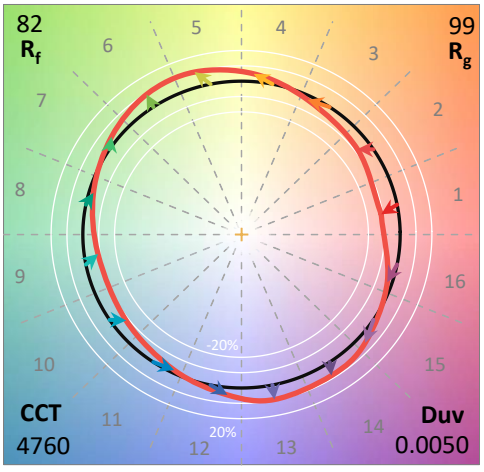
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-12
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-850-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4760
CIE u':	0.2107
CIE v':	0.4939
Duv:	0.0050
CIE x:	0.3537
CIE y:	0.3685
CIE z:	0.2779
Peak Wavelength (nm):	443
Dominant Wavelength (nm):	571
Purity:	16.69598
Rf:	82
Rg:	99.4

CRI (Ra):	81.1
R1:	79.8
R2:	83.5
R3:	87.9
R4:	83.1
R5:	80.5
R6:	79.1
R7:	86.1
R8:	69.0
R9:	8.7
R10:	62.4
R11:	83.8
R12:	63.0
R13:	79.9
R14:	93.3
R15:	72.7



Test Conditions

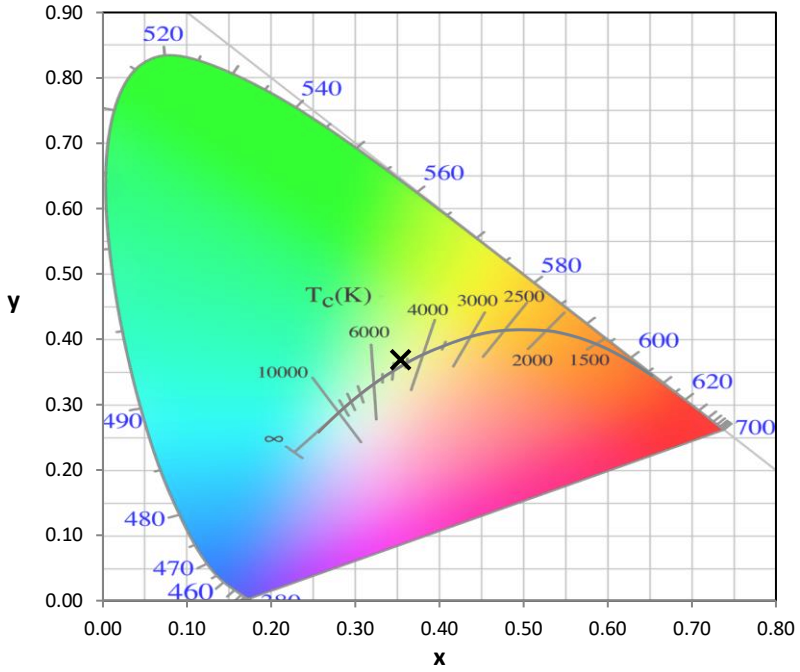
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-12

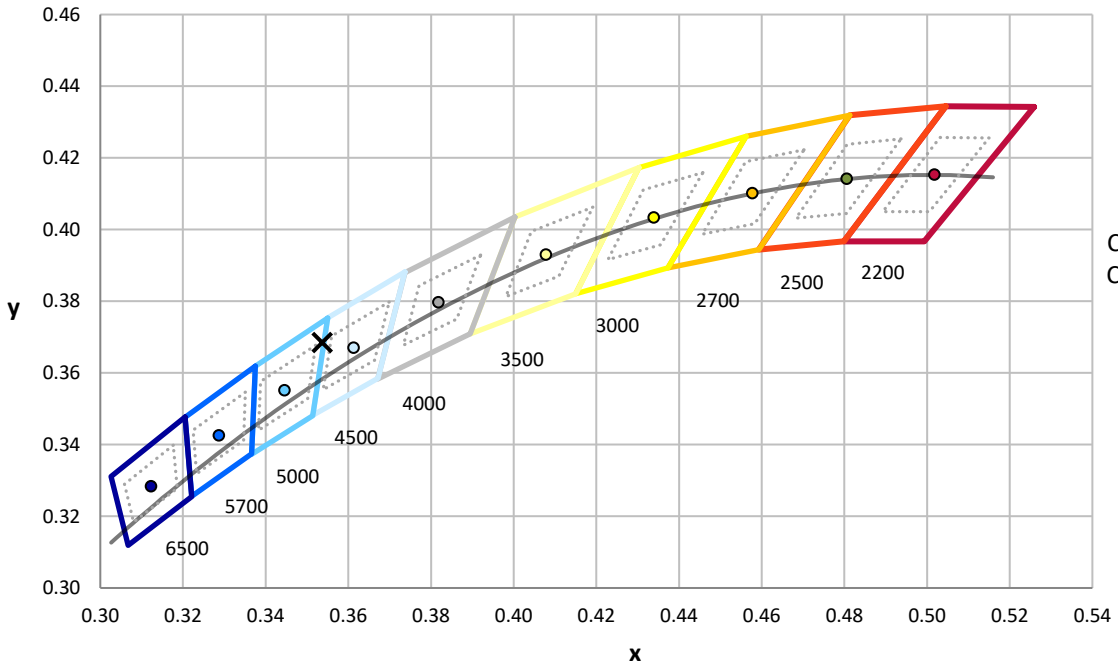
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



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

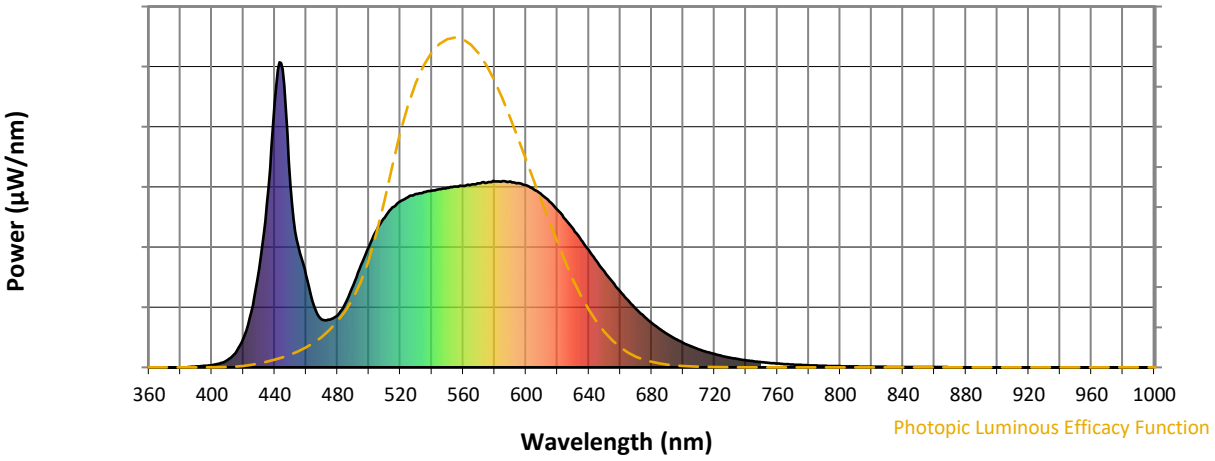


CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

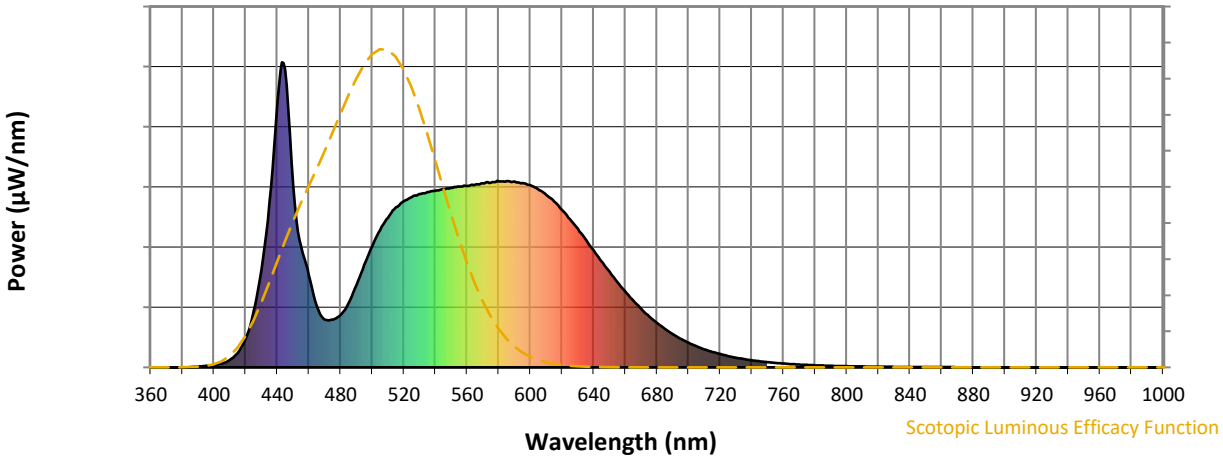


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength

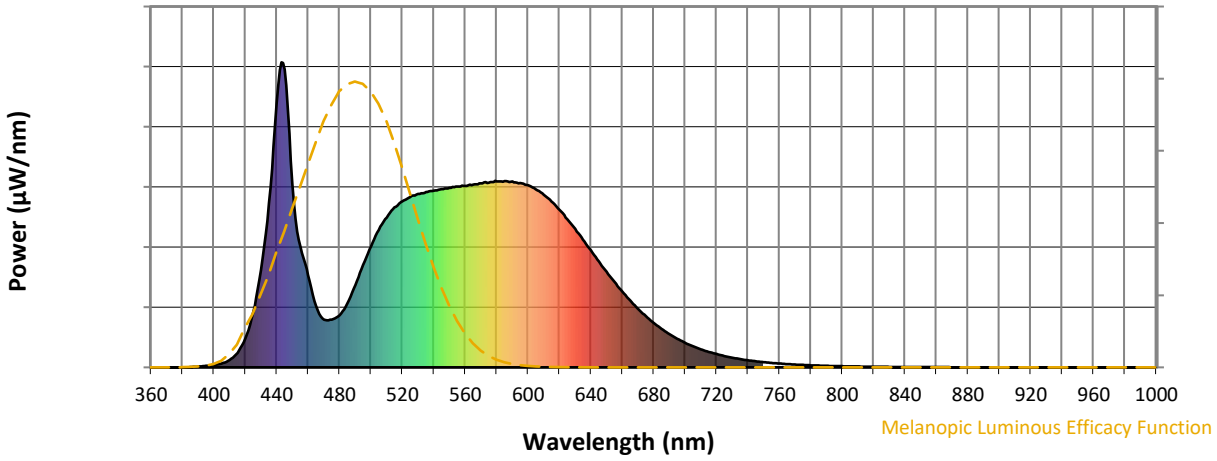


Scotopic Lumens: NR **S/P: 1.83**

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.74**

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

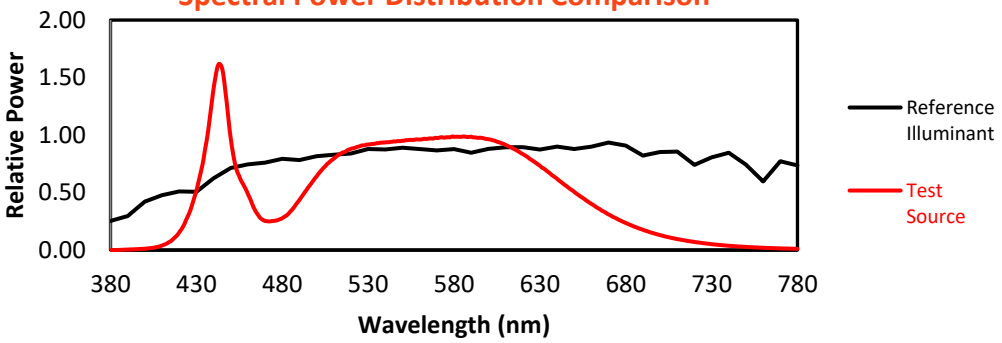
REPORT NUMBER: SP1-2407-184-12

TM-30-18

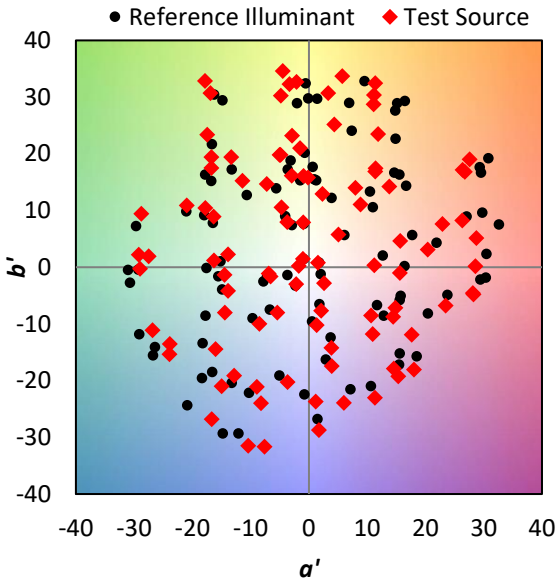
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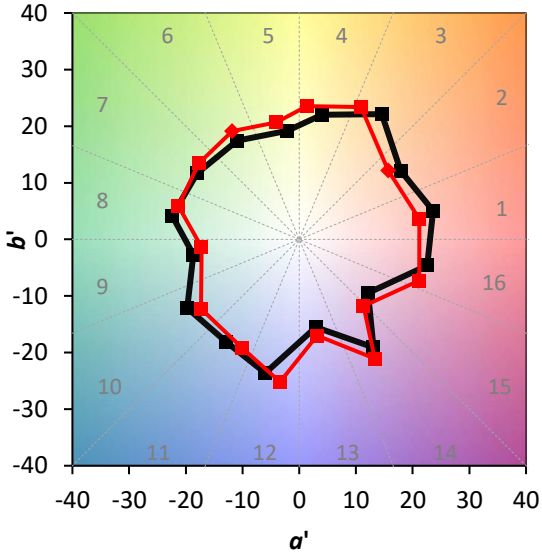
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R_g = 99.4
CIE R_a = 81.1
R_9 = 8.7

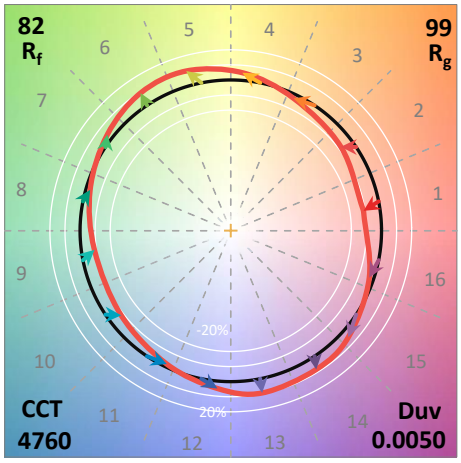
Spectral Power Distribution Comparison

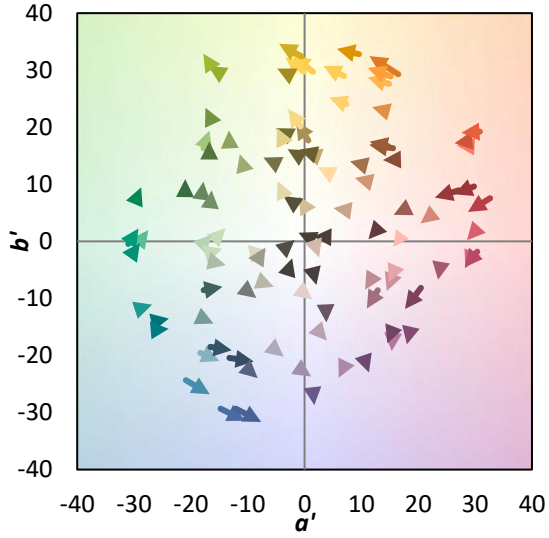


Color Vector Graphics







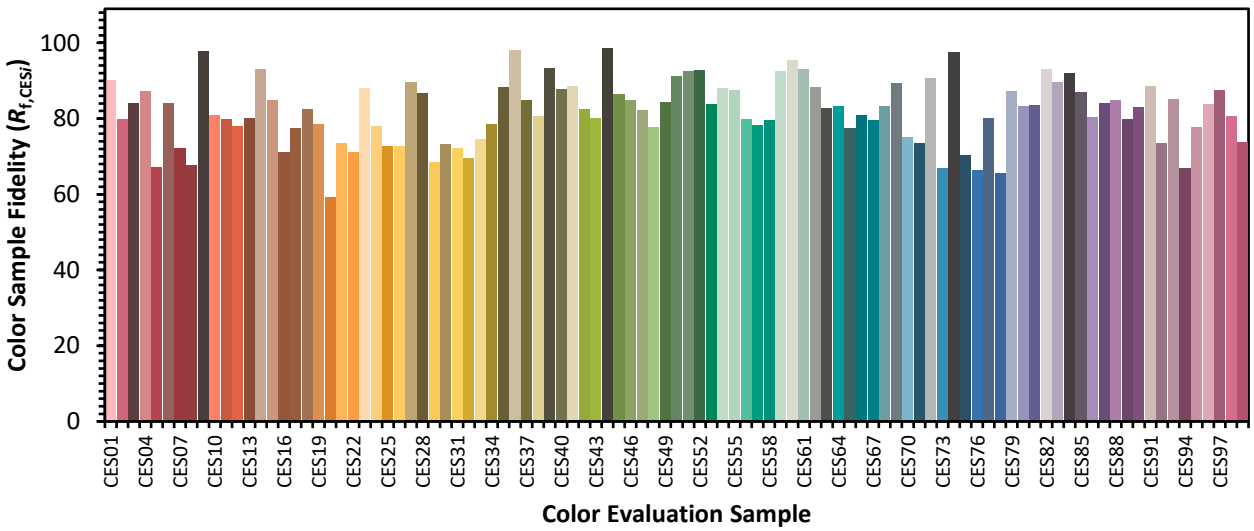


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Individual Sample Fidelity Index ($R_{f,i}$)

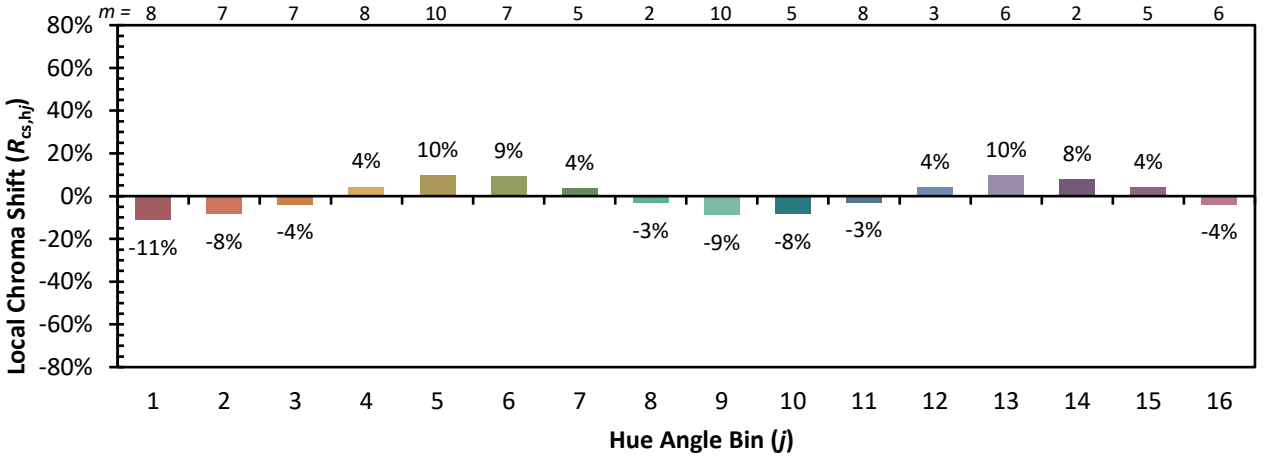
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	

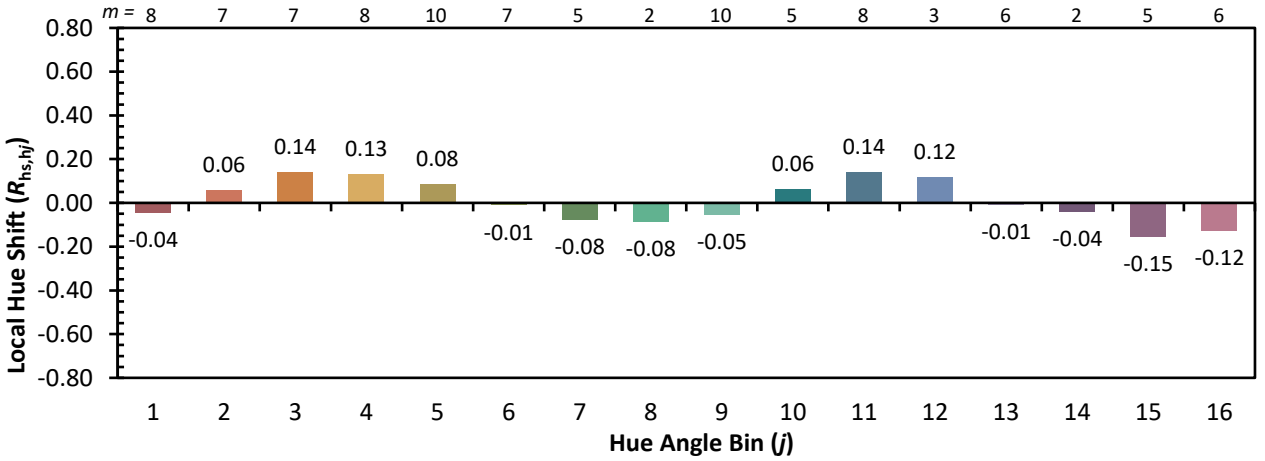


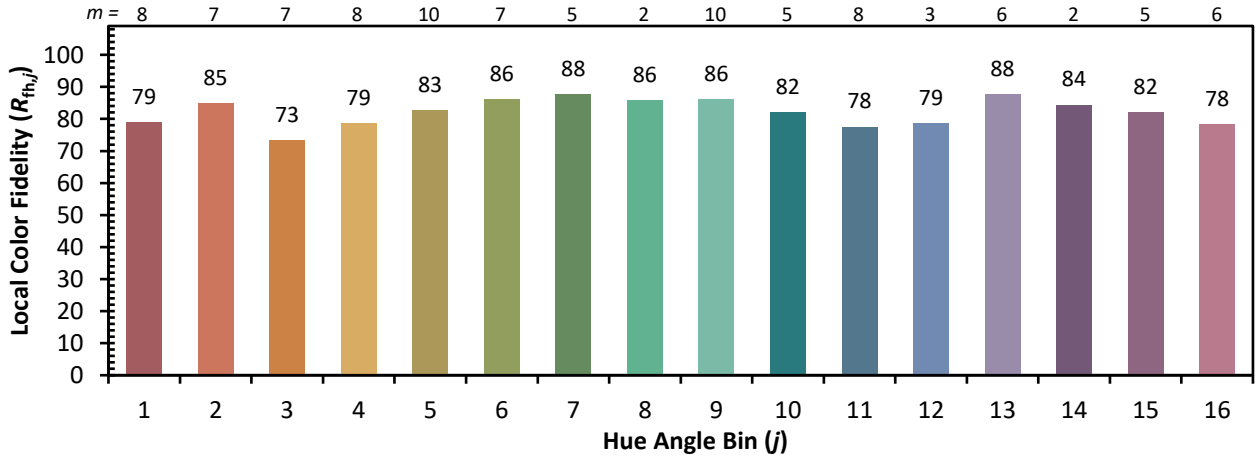
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Color Rendition by Hue-Angle Bin



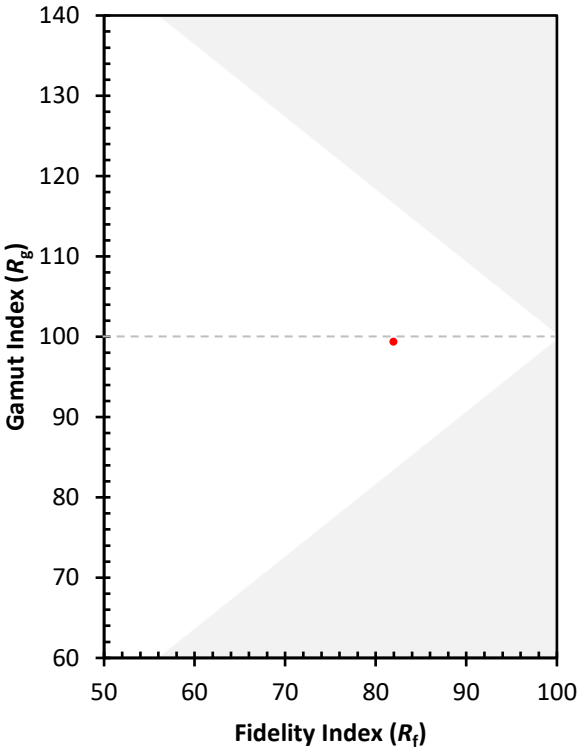


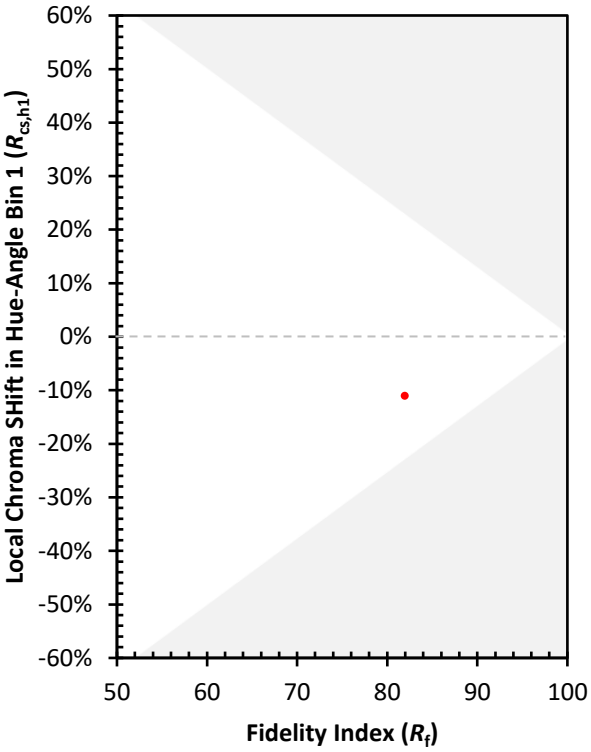


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Measure Comparisons





(END OF REPORT)