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: P1501475

Luminaire Tested: GSS-SB2C-760-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:	P1501475
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-760-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 70CRI 5700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 5700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14566.3 lumens
Efficiency:	N/A
Efficacy:	142.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

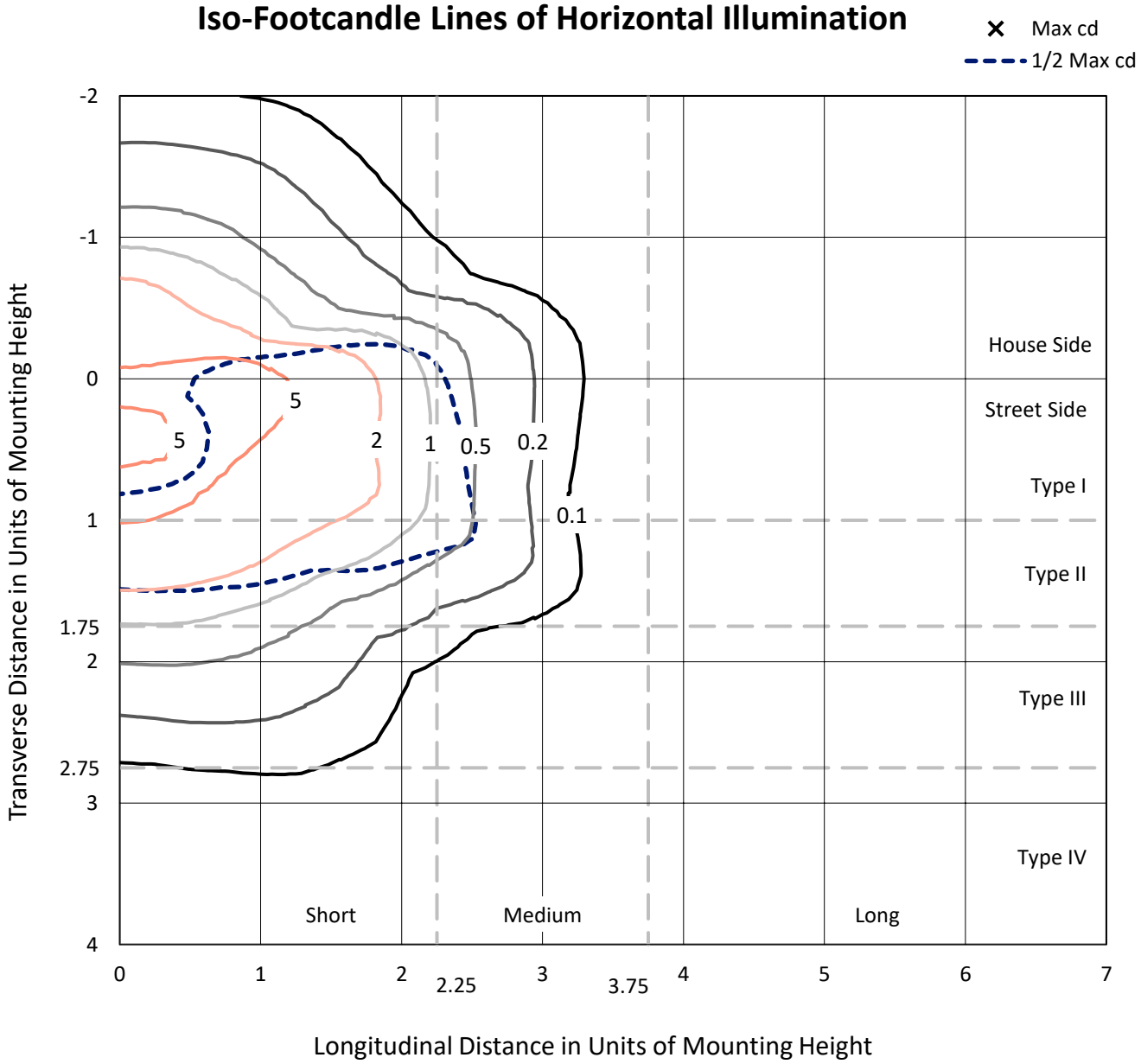
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



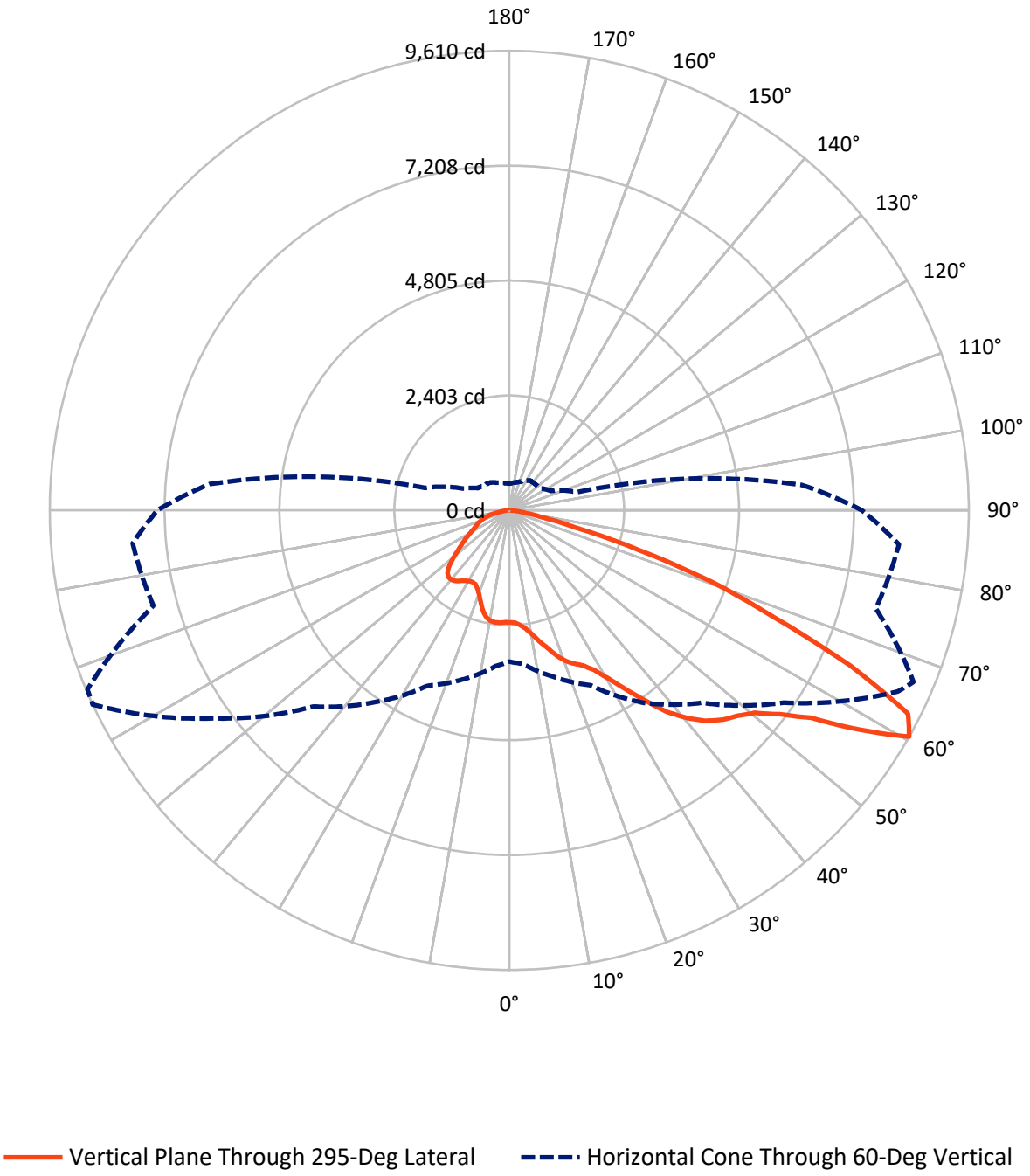
Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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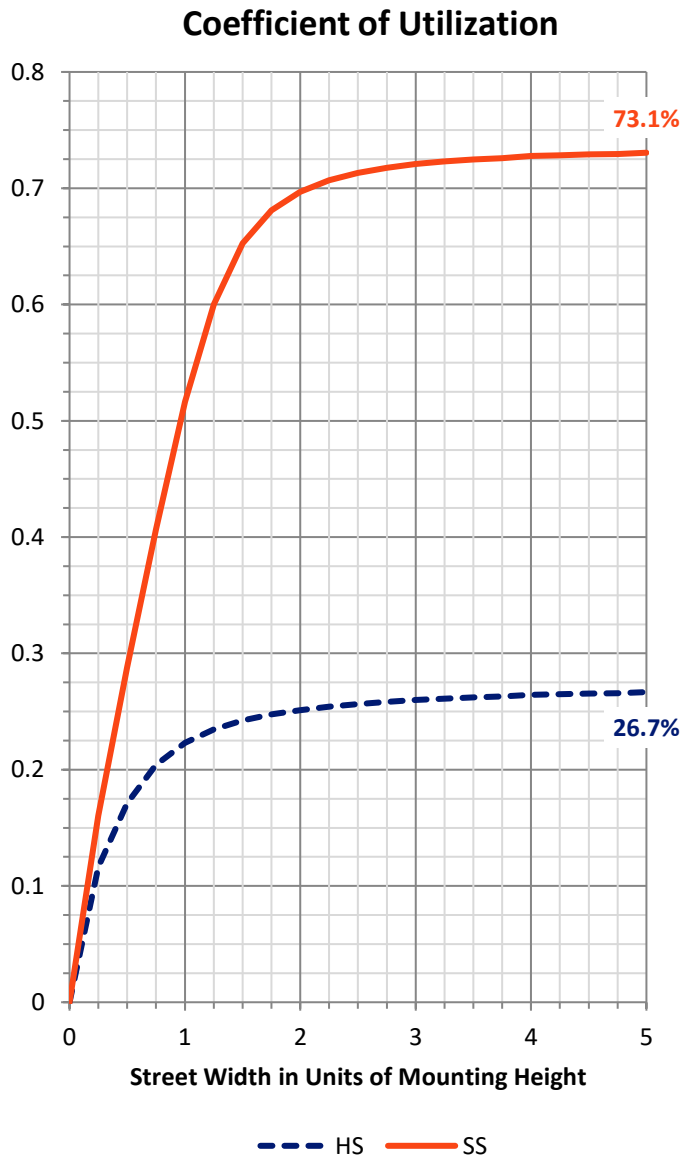
REPORT NUMBER: P1501475
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3917.1	0.0	3917.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10649.2	0.0	10649.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	14566.3	0.0	14566.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.5
10°-20°	633.5	4.3
20°-30°	1199.9	8.2
30°-40°	2115.3	14.5
40°-50°	3128.3	21.5
50°-60°	3673.5	25.2
60°-70°	2661.6	18.3
70°-80°	820.8	5.6
80°-90°	113.0	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°	14566.3	100.0
0°-180°	14566.3	100.0



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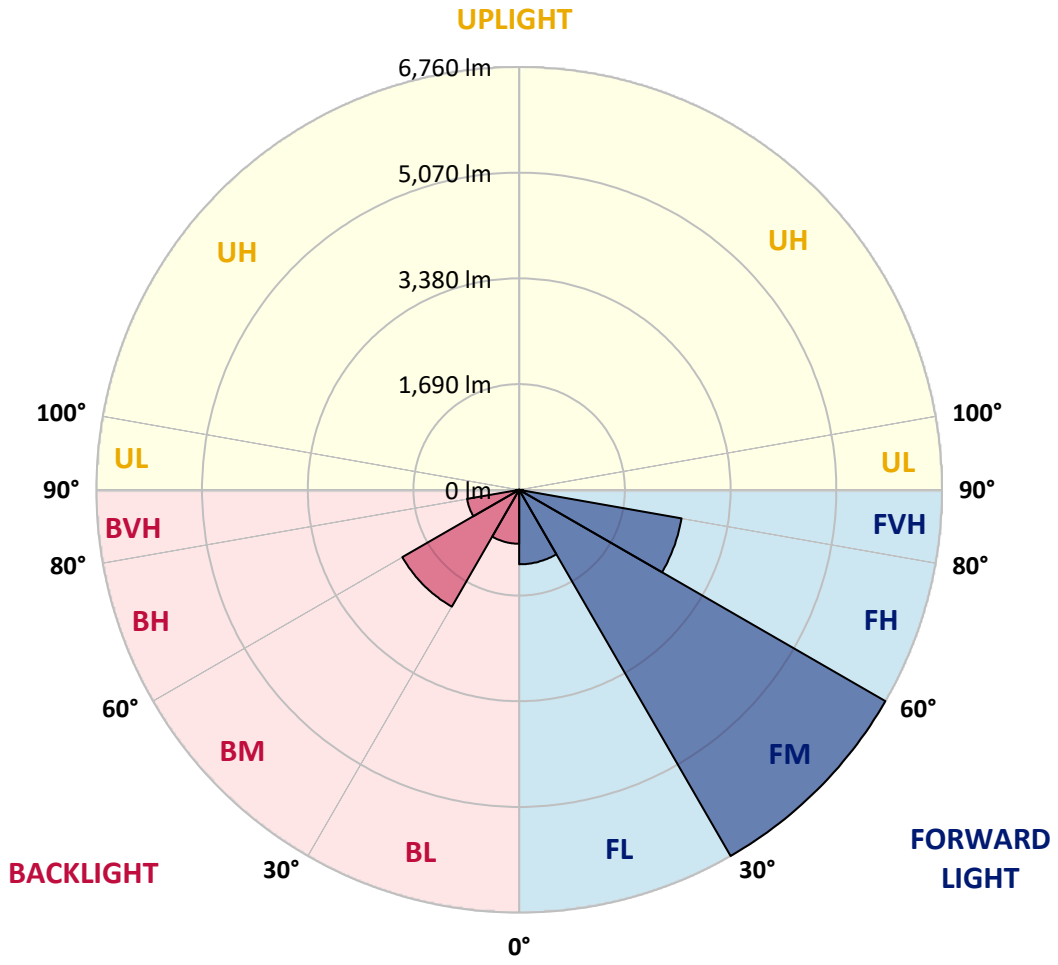
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1191.0	8.2			
FM	(30°-60°)	6760.3	46.4			
FH	(60°-80°)	2636.9	18.1			G2/5000
FVH	(80°-90°)	61.0	0.4			G1/100
BL	(0°-30°)	862.7	5.9	B2/1000		
BM	(30°-60°)	2156.9	14.8	B2/2500		
BH	(60°-80°)	845.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	52.0	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°	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6
2.5°	2390.1	2396.8	2386.8	2393.4	2393.4	2383.5	2380.2	2366.9	2373.5	2370.2	2366.9
5°	2446.6	2449.9	2443.2	2453.2	2453.2	2456.5	2453.2	2436.6	2436.6	2436.6	2430.0
7.5°	2430.0	2430.0	2433.3	2466.5	2499.7	2542.8	2542.8	2536.2	2542.8	2539.5	2509.6
10°	2290.5	2303.8	2333.7	2416.7	2496.4	2589.3	2652.4	2672.3	2672.3	2675.6	2625.8
12.5°	2041.6	2051.5	2121.2	2247.4	2413.4	2582.7	2735.4	2835.0	2844.9	2861.5	2795.1
15°	1819.1	1825.8	1875.6	2005.0	2194.3	2493.0	2781.8	2987.7	3020.8	3090.6	2991.0
17.5°	1839.1	1835.7	1849.0	1898.8	2034.9	2347.0	2771.9	3166.9	3226.7	3349.5	3263.2
20°	1958.6	1958.6	1968.5	1978.5	2028.3	2240.7	2698.8	3313.0	3429.2	3668.2	3568.6
22.5°	2147.8	2147.8	2144.5	2161.1	2161.1	2287.2	2702.2	3422.5	3595.1	4023.4	3927.1
25°	2410.0	2396.8	2396.8	2403.4	2373.5	2463.2	2785.2	3535.4	3761.1	4445.0	4362.0
27.5°	2705.5	2715.4	2708.8	2685.6	2645.7	2715.4	2984.3	3711.3	3947.0	4889.8	4856.6
30°	3027.5	3030.8	3037.4	3024.2	2991.0	3040.8	3296.4	3976.9	4192.7	5354.5	5427.6
32.5°	3342.9	3389.3	3372.7	3339.5	3352.8	3442.4	3681.5	4335.4	4557.8	5786.1	6045.0
35°	3744.5	3761.1	3827.5	3704.7	3708.0	3860.7	4172.8	4806.8	5022.6	6234.2	6662.5
37.5°	4328.8	4358.7	4328.8	4136.2	4106.4	4318.8	4650.8	5271.5	5427.6	6572.8	7236.8
40°	4903.1	4939.6	4989.4	4763.6	4574.4	4750.4	5102.2	5626.7	5789.4	6758.7	7618.5
42.5°	5377.8	5437.5	5384.4	5318.0	5145.4	5178.6	5417.6	5902.3	6064.9	6994.4	8003.6
45°	5779.4	5789.4	5812.6	5766.2	5679.9	5650.0	5686.5	6144.6	6323.9	7100.7	8192.8
47.5°	5945.4	5988.6	6008.5	6088.2	6177.8	6118.1	5915.6	6257.5	6420.1	7094.0	8252.6
50°	5855.8	5899.0	6005.2	6194.4	6410.2	6516.4	6184.4	6413.5	6596.1	7213.5	8375.4
52.5°	5620.1	5666.6	5839.2	6055.0	6416.8	6659.1	6562.9	6738.8	6914.8	7426.0	8581.2
55°	5049.1	5118.8	5361.2	5719.7	6217.6	6582.8	6961.2	7216.8	7409.4	7681.6	8793.7
57.5°	4219.2	4292.3	4564.5	5102.2	5849.2	6267.4	7077.4	8113.1	8199.4	7987.0	8813.6
60°	*3160.3*	*3220.0*	*3605.1*	*4036.7*	*4913.0*	*5689.8*	*7011.0*	*8963.0*	*9182.1*	*7933.9*	*8179.5*
62.5°	2503.0	2576.0	2917.9	3117.1	3744.5	4700.6	6778.7	9198.7	9387.9	7495.7	7296.5
65°	1955.3	2005.0	2323.7	2609.2	2761.9	3210.1	5809.3	8046.7	8216.0	6782.0	6021.8
67.5°	1291.3	1367.7	1746.1	2137.8	2217.5	2041.6	3996.8	6191.1	6270.8	5391.1	4528.0
70°	926.2	962.7	1244.9	1663.1	1782.6	1367.7	2177.7	4687.3	4710.5	3618.4	3050.7
72.5°	630.7	637.4	846.5	1274.7	1420.8	992.6	1198.4	3087.2	3007.6	1786.0	1746.1
75°	428.2	434.9	541.1	849.8	1005.8	690.5	780.1	1683.0	1616.7	985.9	1059.0
77.5°	288.8	295.4	371.8	571.0	670.6	478.0	571.0	889.7	873.1	654.0	567.7
80°	219.1	229.1	275.5	365.2	468.1	278.8	325.3	421.6	428.2	348.6	288.8
82.5°	122.8	136.1	166.0	185.9	302.1	156.0	156.0	252.3	242.3	215.8	156.0
85°	53.1	56.4	66.4	69.7	122.8	66.4	56.4	109.5	112.9	106.2	49.8
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	13.3	13.3	13.3
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°	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6
2.5°	2350.3	2370.2	2350.3	2340.3	2340.3	2323.7	2317.1	2317.1	2293.9	2303.8	2297.2
5°	2403.4	2410.0	2386.8	2356.9	2317.1	2283.9	2237.4	2177.7	2141.2	2137.8	2141.2
7.5°	2486.4	2489.7	2426.6	2360.2	2260.7	2141.2	1998.4	1882.2	1779.3	1762.7	1782.6
10°	2602.6	2595.9	2503.0	2347.0	2137.8	1885.5	1666.4	1560.2	1500.5	1497.1	1493.8
12.5°	2758.6	2715.4	2572.7	2290.5	1925.4	1633.3	1520.4	1513.7	1530.3	1543.6	1546.9
15°	2937.9	2881.4	2629.1	2181.0	1709.6	1540.3	1546.9	1603.4	1623.3	1636.6	1636.6
17.5°	3160.3	3087.2	2692.2	2025.0	1600.1	1560.2	1606.7	1659.8	1693.0	1706.3	1703.0
20°	3455.7	3303.0	2742.0	1875.6	1570.2	1593.4	1633.3	1686.4	1719.6	1736.2	1736.2
22.5°	3751.2	3561.9	2752.0	1772.7	1570.2	1596.7	1633.3	1686.4	1722.9	1739.5	1736.2
25°	4152.8	3893.9	2755.3	1699.6	1573.5	1580.1	1613.3	1659.8	1712.9	1729.5	1736.2
27.5°	4581.1	4259.1	2771.9	1683.0	1560.2	1556.9	1580.1	1623.3	1676.4	1719.6	1722.9
30°	5112.2	4670.7	2778.5	1699.6	1563.5	1520.4	1537.0	1580.1	1636.6	1679.7	1693.0
32.5°	5633.4	5052.5	2765.2	1736.2	1570.2	1497.1	1500.5	1527.0	1586.8	1616.7	1639.9
35°	6184.4	5457.4	2742.0	1786.0	1573.5	1487.2	1457.3	1470.6	1510.4	1513.7	1523.7
37.5°	6616.0	5759.5	2672.3	1852.3	1580.1	1450.7	1390.9	1381.0	1364.4	1331.2	1337.8
40°	6971.2	5962.0	2556.1	1885.5	1563.5	1407.5	1307.9	1261.5	1198.4	1148.6	1158.5
42.5°	7226.8	6098.1	2416.7	1892.2	1537.0	1334.5	1211.7	1132.0	1062.3	1009.2	1012.5
45°	7339.7	6084.9	2267.3	1842.4	1473.9	1244.9	1122.0	1045.7	969.3	912.9	906.3
47.5°	7343.0	5955.4	2061.5	1722.9	1367.7	1141.9	1039.0	956.0	893.0	853.1	849.8
50°	7369.5	5882.4	1868.9	1550.3	1228.3	1032.4	966.0	883.0	846.5	790.1	773.5
52.5°	7535.5	6001.9	1736.2	1361.0	1098.8	952.7	902.9	829.9	770.2	733.6	730.3
55°	7804.4	6207.7	1663.1	1218.3	976.0	876.4	843.2	780.1	727.0	690.5	680.5
57.5°	7837.6	6313.9	1576.8	1085.5	876.4	816.6	803.3	733.6	657.3	630.7	620.8
60°	*7372.9*	*6134.6*	*1470.6*	*962.7*	*803.3*	*770.2*	*763.5*	*670.6*	*607.5*	*574.3*	*561.0*
62.5°	6738.8	5686.5	1307.9	849.8	746.9	723.7	697.1	624.1	544.4	507.9	497.9
65°	5507.2	4780.2	1112.1	773.5	690.5	663.9	657.3	557.7	504.6	484.7	481.3
67.5°	4172.8	3840.8	979.3	717.0	630.7	620.8	597.5	564.3	541.1	517.9	511.2
70°	2951.1	2771.9	833.2	644.0	571.0	554.4	650.6	614.1	531.1	501.3	497.9
72.5°	1789.3	1739.5	720.4	577.6	491.3	517.9	600.9	554.4	478.0	441.5	428.2
75°	1128.7	1032.4	604.2	491.3	391.7	421.6	524.5	494.6	411.6	375.1	365.2
77.5°	614.1	571.0	454.8	401.7	308.7	341.9	458.1	408.3	328.6	358.5	318.7
80°	268.9	298.8	302.1	232.4	205.8	252.3	328.6	318.7	252.3	255.6	212.5
82.5°	129.5	169.3	195.9	159.3	116.2	149.4	219.1	182.6	169.3	159.3	152.7
85°	39.8	63.1	86.3	76.4	53.1	63.1	102.9	99.6	119.5	102.9	96.3
87.5°	13.3	13.3	10.0	10.0	10.0	13.3	16.6	10.0	3.3	3.3	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°	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6
2.5°	2293.9	2297.2	2297.2	2300.5	2300.5	2310.5	2323.7	2337.0	2327.1	2340.3	2343.6
5°	2134.5	2151.1	2164.4	2214.2	2254.0	2287.2	2323.7	2356.9	2366.9	2373.5	2390.1
7.5°	1759.4	1805.9	1892.2	2005.0	2131.2	2254.0	2337.0	2423.3	2436.6	2453.2	2476.4
10°	1497.1	1517.1	1576.8	1693.0	1918.7	2161.1	2363.6	2499.7	2556.1	2589.3	2612.5
12.5°	1540.3	1527.0	1517.1	1533.7	1679.7	1991.8	2347.0	2609.2	2715.4	2752.0	2781.8
15°	1643.2	1629.9	1593.4	1546.9	1563.5	1812.5	2290.5	2712.1	2881.4	2941.2	3004.3
17.5°	1703.0	1689.7	1659.8	1610.0	1566.9	1663.1	2184.3	2805.1	3143.7	3216.7	3306.3
20°	1736.2	1722.9	1693.0	1643.2	1593.4	1606.7	2048.2	2921.3	3442.4	3558.6	3691.4
22.5°	1742.8	1726.2	1693.0	1643.2	1613.3	1603.4	1918.7	2991.0	3764.4	3943.7	4096.4
25°	1739.5	1709.6	1666.4	1629.9	1613.3	1610.0	1829.1	3030.8	4113.0	4398.5	4571.1
27.5°	1716.2	1679.7	1636.6	1610.0	1603.4	1623.3	1789.3	3077.3	4521.3	4886.5	5162.0
30°	1689.7	1636.6	1583.5	1573.5	1590.1	1653.2	1822.5	3093.9	4949.5	5417.6	5699.8
32.5°	1620.0	1580.1	1527.0	1523.7	1563.5	1676.4	1898.8	3070.6	5328.0	5948.7	6303.9
35°	1520.4	1497.1	1467.3	1477.2	1540.3	1696.3	1951.9	2997.6	5673.2	6443.4	6858.3
37.5°	1344.4	1361.0	1377.6	1400.9	1480.5	1693.0	1975.2	2881.4	5958.7	6838.4	7369.5
40°	1148.6	1205.0	1258.1	1317.9	1424.1	1666.4	1981.8	2738.7	6124.7	7137.2	7824.3
42.5°	1025.8	1078.9	1145.3	1231.6	1347.8	1606.7	1975.2	2579.3	6177.8	7343.0	8113.1
45°	912.9	976.0	1059.0	1148.6	1281.4	1520.4	1915.4	2406.7	6204.4	7439.3	8236.0
47.5°	853.1	889.7	966.0	1055.6	1195.1	1414.2	1799.2	2280.6	6164.5	7459.2	8385.3
50°	783.4	833.2	883.0	969.3	1105.4	1281.4	1659.8	2207.5	6230.9	7655.0	8621.0
52.5°	730.3	756.9	810.0	889.7	989.2	1158.5	1527.0	2147.8	6413.5	7854.2	8866.7
55°	690.5	720.4	753.6	819.9	896.3	1035.7	1390.9	2058.2	6626.0	8066.7	9112.3
57.5°	627.4	647.3	693.8	763.5	813.3	916.2	1231.6	1951.9	6609.4	7900.7	8687.4
60°	*571.0*	*590.9*	*640.7*	*710.4*	*740.3*	*810.0*	*1075.6*	*1815.8*	*6290.7*	*7359.6*	*7904.0*
62.5°	507.9	531.1	590.9	640.7	667.2	720.4	912.9	1566.9	5626.7	6546.3	6987.8
65°	481.3	494.6	534.5	594.2	590.9	640.7	770.2	1231.6	4528.0	5002.7	5404.3
67.5°	511.2	531.1	524.5	541.1	531.1	557.7	690.5	989.2	3558.6	3767.8	4000.1
70°	504.6	551.1	574.3	541.1	464.7	494.6	597.5	790.1	2546.1	2526.2	2516.3
72.5°	441.5	488.0	554.4	587.6	454.8	411.6	517.9	683.8	1633.3	1626.6	1470.6
75°	375.1	408.3	488.0	531.1	391.7	332.0	444.8	580.9	976.0	989.2	883.0
77.5°	345.2	328.6	408.3	468.1	318.7	255.6	358.5	438.2	537.8	544.4	504.6
80°	249.0	239.0	305.4	341.9	242.3	182.6	202.5	272.2	288.8	258.9	268.9
82.5°	159.3	162.7	182.6	219.1	149.4	99.6	139.4	182.6	156.0	126.1	149.4
85°	102.9	116.2	96.3	112.9	46.5	46.5	59.8	79.7	53.1	36.5	39.8
87.5°	0.0	0.0	6.6	13.3	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: P1501475
CATALOG NUMBER: GSS-SB2C-760-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6
2.5°	2353.6	2350.3	2350.3	2356.9	2373.5	2380.2	2390.1	2386.8	2396.8	2390.1
5°	2400.1	2403.4	2413.4	2416.7	2426.6	2439.9	2443.2	2439.9	2446.6	2446.6
7.5°	2493.0	2506.3	2499.7	2516.3	2503.0	2486.4	2459.8	2439.9	2423.3	2430.0
10°	2649.1	2642.4	2639.1	2609.2	2549.5	2463.2	2393.4	2317.1	2303.8	2290.5
12.5°	2821.7	2815.0	2815.0	2712.1	2542.8	2363.6	2204.2	2084.7	2044.9	2041.6
15°	3064.0	3020.8	2981.0	2765.2	2426.6	2121.2	1935.3	1842.4	1819.1	1819.1
17.5°	3366.1	3253.2	3186.8	2725.4	2237.4	1961.9	1852.3	1829.1	1822.5	1839.1
20°	3741.2	3455.7	3359.5	2635.8	2167.7	1981.8	1928.7	1932.0	1935.3	1958.6
22.5°	4152.8	3641.6	3482.3	2635.8	2237.4	2108.0	2081.4	2117.9	2127.9	2147.8
25°	4610.9	3807.6	3591.8	2775.2	2443.2	2347.0	2313.8	2350.3	2376.8	2410.0
27.5°	5125.5	3980.2	3781.0	3027.5	2708.8	2649.1	2612.5	2629.1	2665.7	2705.5
30°	5586.9	4269.0	4069.8	3412.6	3070.6	2997.6	2934.5	2961.1	3000.9	3027.5
32.5°	5995.2	4620.9	4451.6	3817.6	3485.6	3359.5	3289.7	3283.1	3362.8	3342.9
35°	6370.3	5035.9	4873.2	4279.0	3907.2	3751.2	3658.2	3777.7	3724.6	3744.5
37.5°	6665.8	5467.4	5337.9	4720.5	4345.4	4132.9	4076.5	4222.6	4305.5	4328.8
40°	6908.1	5842.5	5706.4	5158.7	4747.0	4591.0	4680.7	4923.0	4913.0	4903.1
42.5°	7094.0	6164.5	6015.1	5490.6	5132.1	5162.0	5231.7	5394.4	5434.2	5377.8
45°	7177.0	6367.0	6247.5	5752.9	5570.3	5742.9	5772.8	5842.5	5816.0	5779.4
47.5°	7273.3	6546.3	6420.1	5991.9	6045.0	6214.3	6154.6	6098.1	6001.9	5945.4
50°	7435.9	6758.7	6652.5	6340.5	6533.0	6476.6	6244.2	6118.1	5922.2	5855.8
52.5°	7744.7	7160.4	7080.7	6891.5	6762.1	6436.7	6154.6	5928.8	5709.7	5620.1
55°	8020.2	7704.8	7658.4	7406.1	6692.3	6227.6	5849.2	5500.6	5125.5	5049.1
57.5°	8179.5	8607.8	8660.9	7625.2	6373.7	5752.9	5195.2	4637.5	4282.3	4219.2
60°	7704.8	9583.7	9610.3	7582.0	5799.4	4896.4	4046.6	3651.6	3269.8	3160.3
62.5°	7050.9	9381.2	9358.0	7323.1	4617.6	3571.9	3074.0	2888.1	2592.6	2503.0
65°	6061.6	7814.4	7840.9	6327.2	3070.6	2582.7	2582.7	2347.0	2018.3	1955.3
67.5°	4939.6	6025.1	5965.3	4103.0	1885.5	2068.1	2167.7	1829.1	1367.7	1291.3
70°	3210.1	4601.0	4518.0	2366.9	1185.1	1722.9	1706.3	1374.3	979.3	926.2
72.5°	1381.0	2659.0	2828.3	1208.3	893.0	1387.6	1361.0	962.7	654.0	630.7
75°	833.2	1337.8	1457.3	770.2	650.6	1045.7	942.8	610.8	444.8	428.2
77.5°	527.8	733.6	727.0	577.6	488.0	707.1	634.0	421.6	302.1	288.8
80°	305.4	361.8	375.1	361.8	328.6	504.6	405.0	305.4	235.7	219.1
82.5°	195.9	225.7	229.1	175.9	182.6	325.3	219.1	179.3	136.1	122.8
85°	86.3	96.3	92.9	59.8	59.8	132.8	76.4	73.0	53.1	53.1
87.5°	3.3	6.6	3.3	3.3	3.3	13.3	6.6	10.0	10.0	10.0
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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

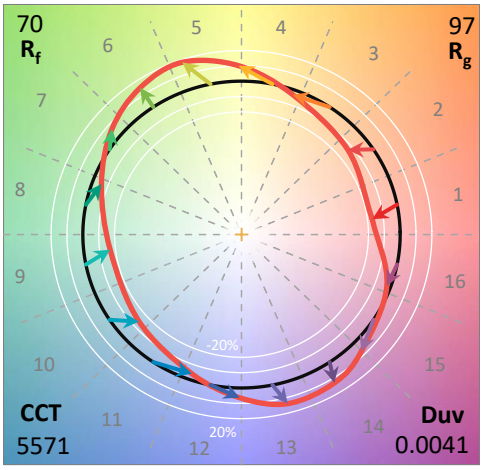
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-7
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-757-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571
CIE u':	0.2033
CIE v':	0.4806
Duv:	0.0041
CIE x:	0.3308
CIE y:	0.3476
CIE z:	0.3216
Peak Wavelength (nm):	442
Dominant Wavelength (nm):	544
Purity:	3.635698
Rf:	70.4
Rg:	97.1

CRI (Ra):	69.9
R1:	68.8
R2:	72.5
R3:	76.8
R4:	72.0
R5:	70.9
R6:	65.6
R7:	75.5
R8:	56.8
R9:	-35.4
R10:	36.7
R11:	73.9
R12:	47.8
R13:	68.0
R14:	87.0
R15:	59.8



Test Conditions

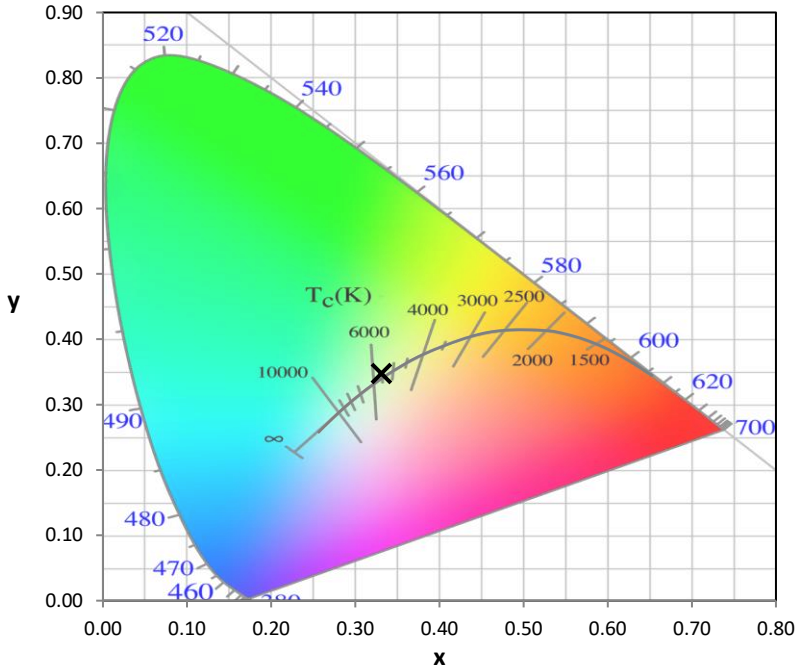
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-7

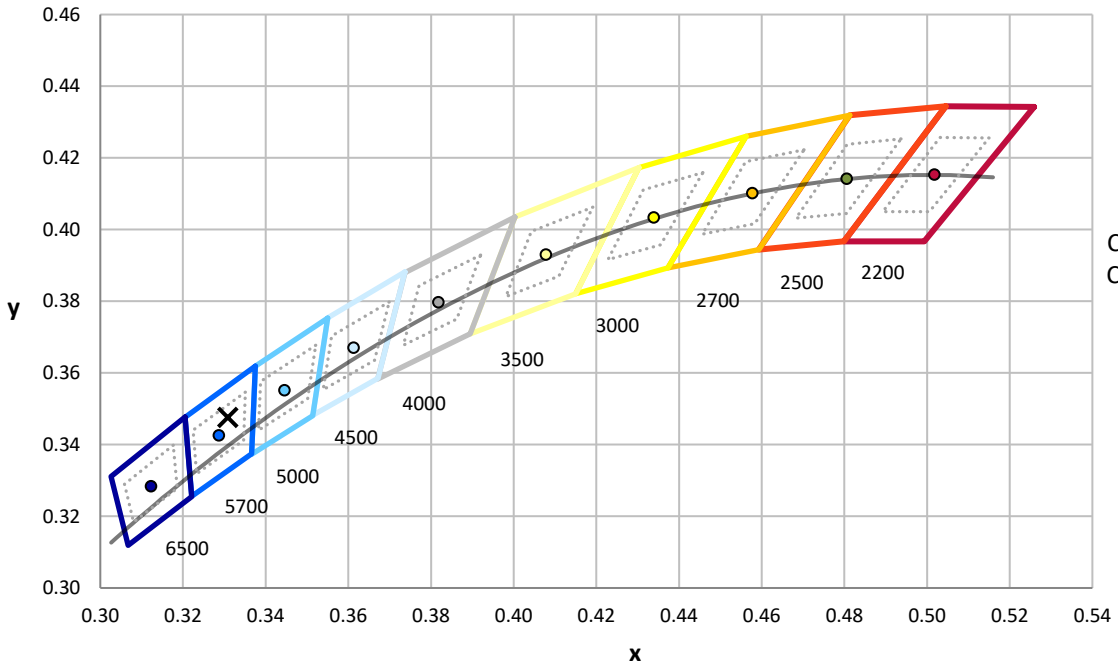
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-7

CIE 1931 Chromaticity Diagram



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

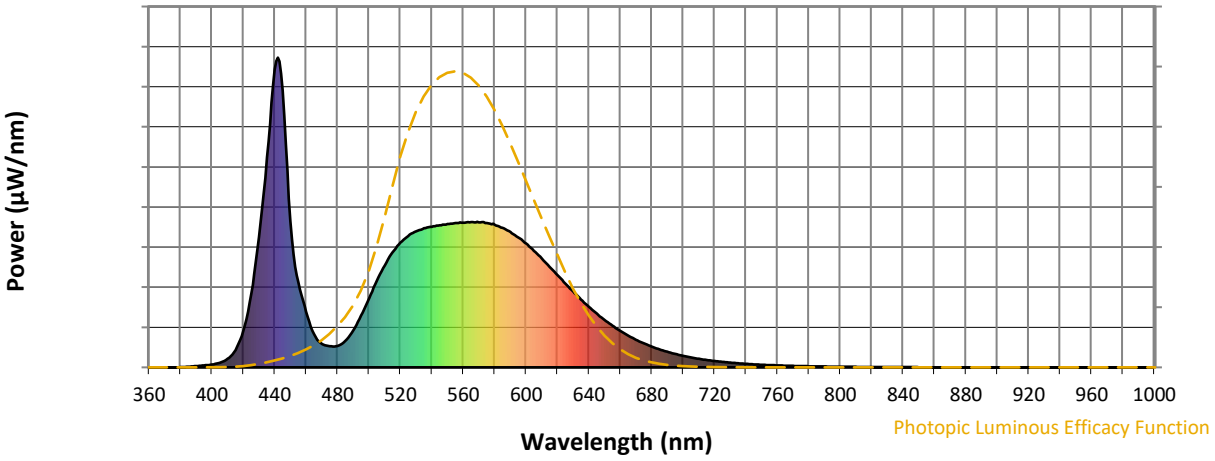


CCT = 5571K
CIE x = 0.3308
CIE y = 0.3476
Duv = 0.0041

Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

Photopic Flux vs. Wavelength

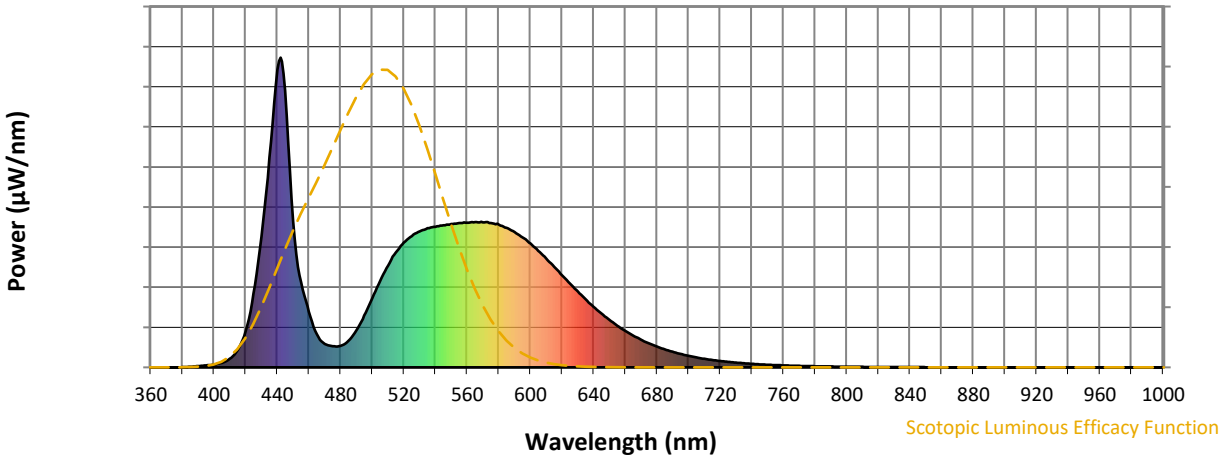


Photopic Lumens: NR

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Scotopic Flux vs. Wavelength

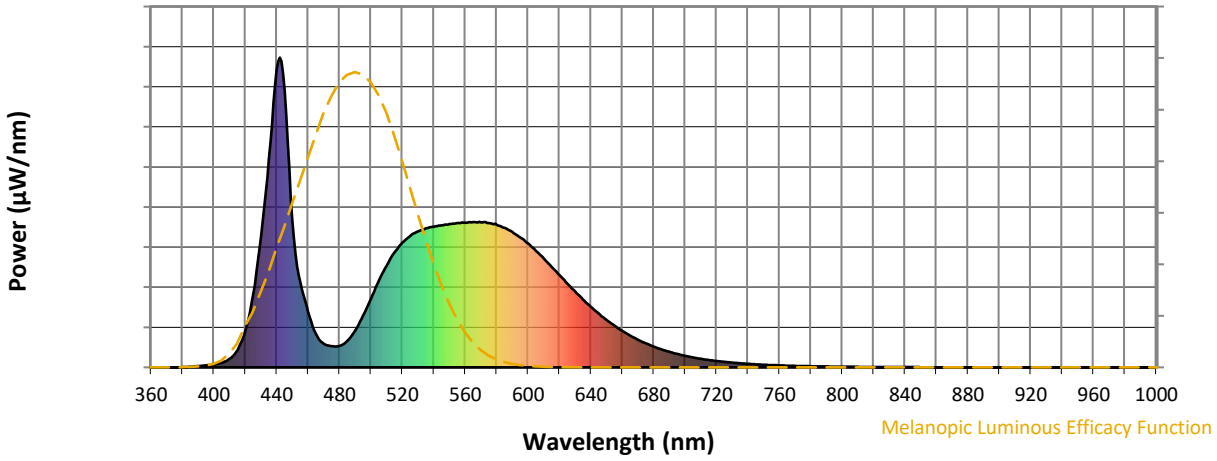


Scotopic Lumens: NR **S/P: 1.84**

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.71**

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

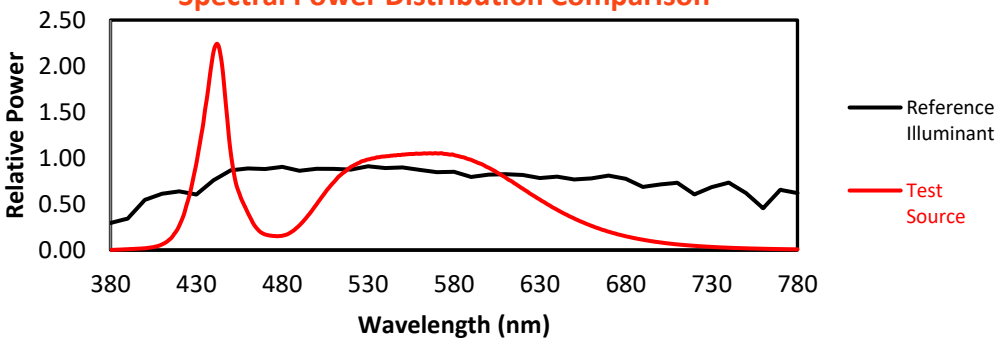
REPORT NUMBER: SP1-2407-184-7

TM-30-18

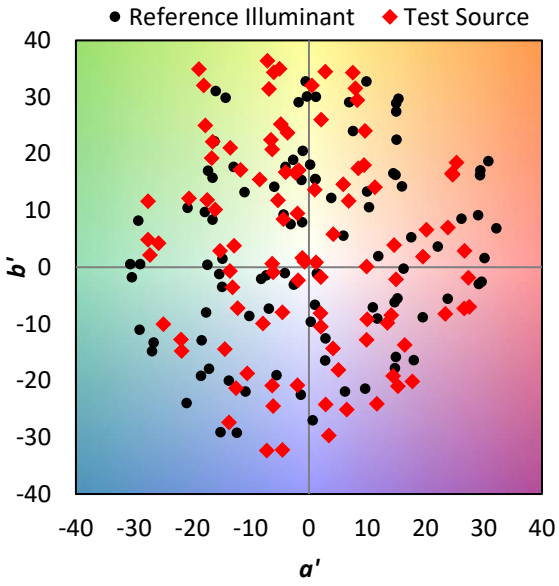
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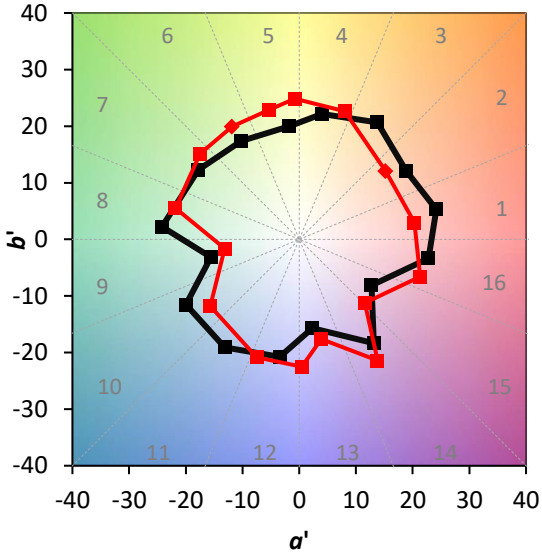
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R_g = 97.1
CIE R_a = 69.9
R_9 = -35.4

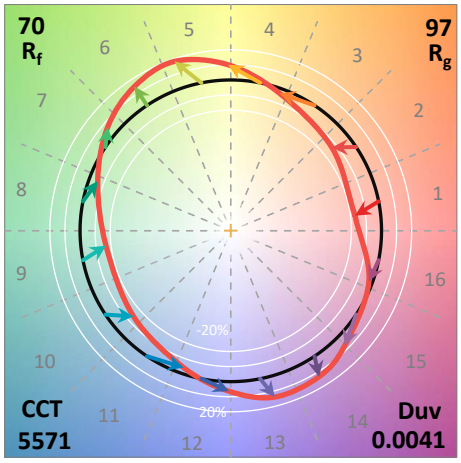
Spectral Power Distribution Comparison

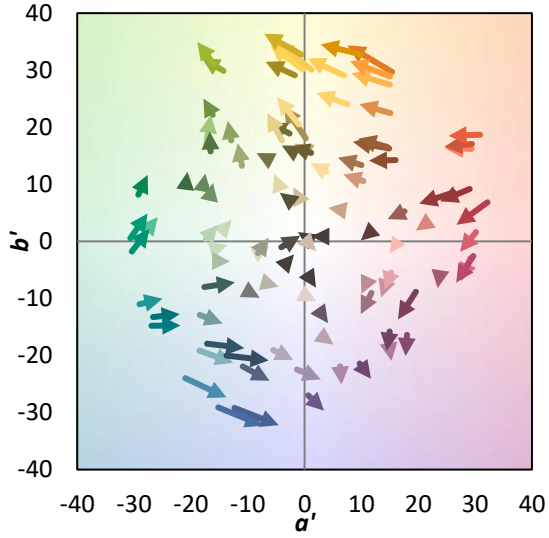


Color Vector Graphics







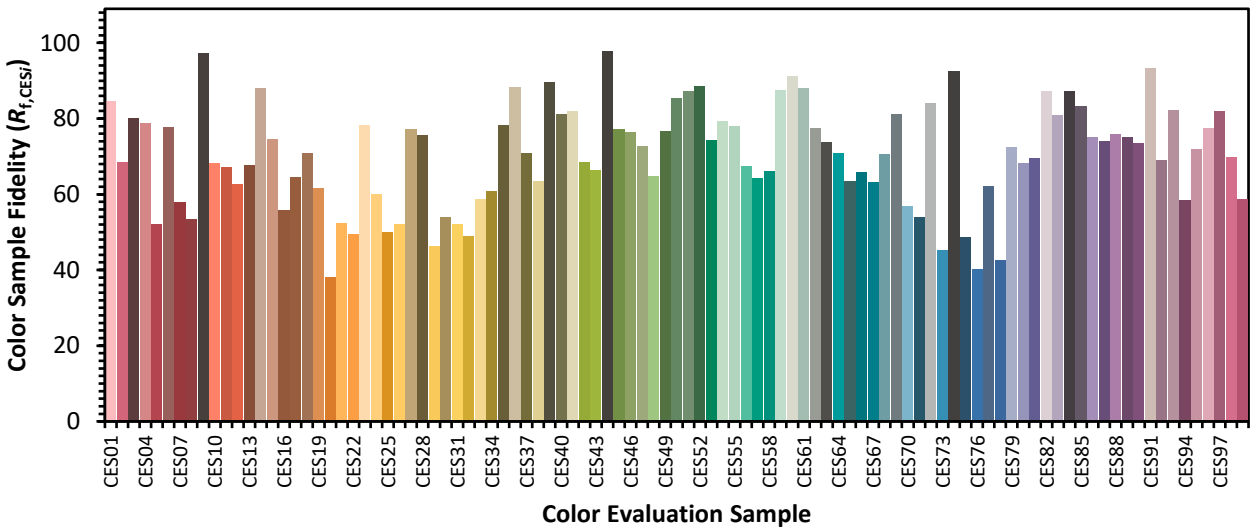


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Individual Sample Fidelity Index ($R_{f,i}$)

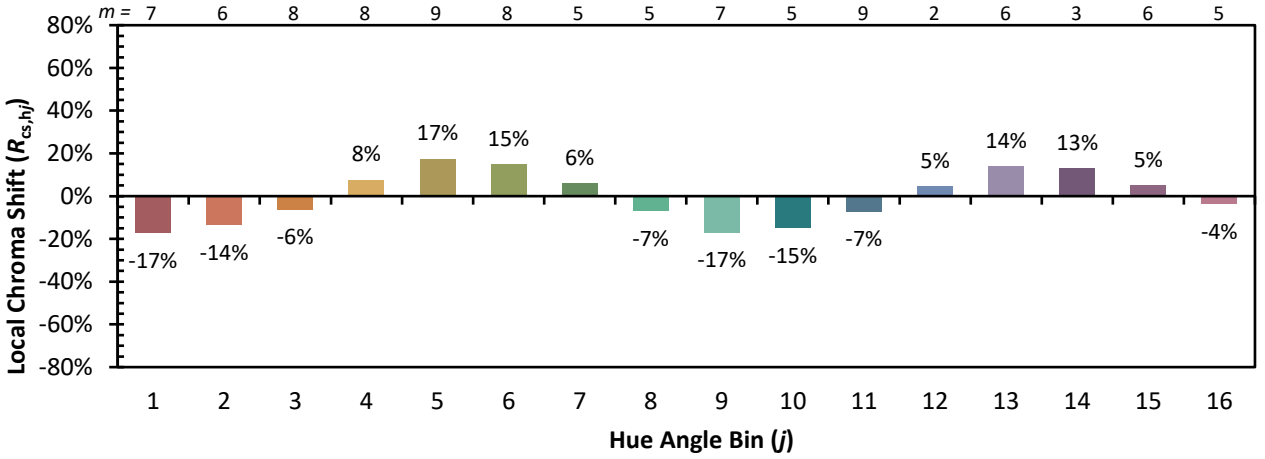
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CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	

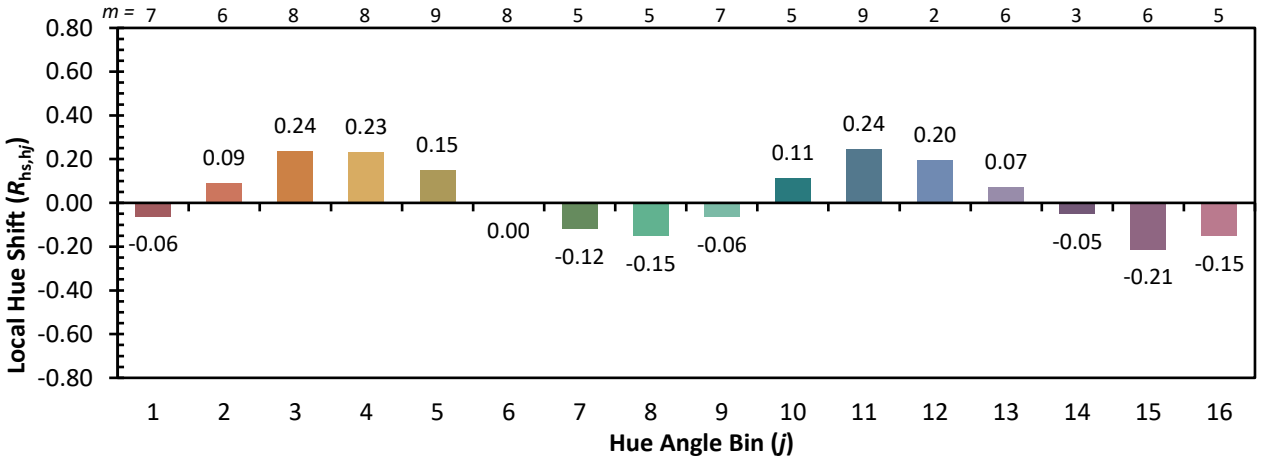


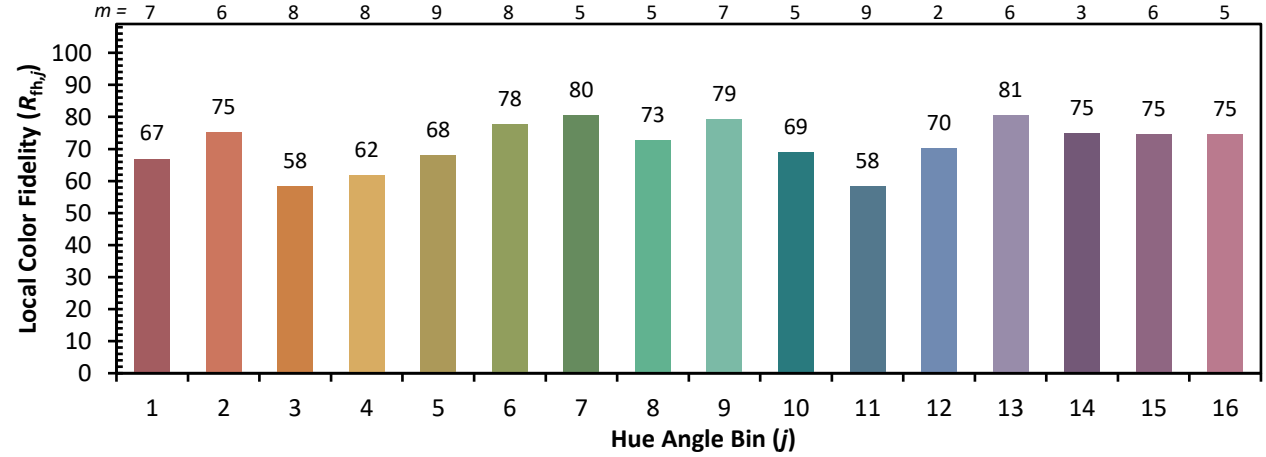
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Color Rendition by Hue-Angle Bin



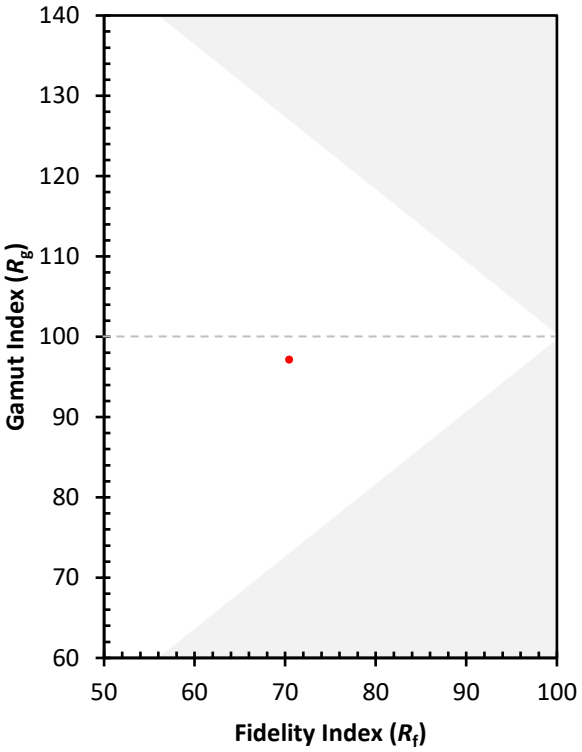


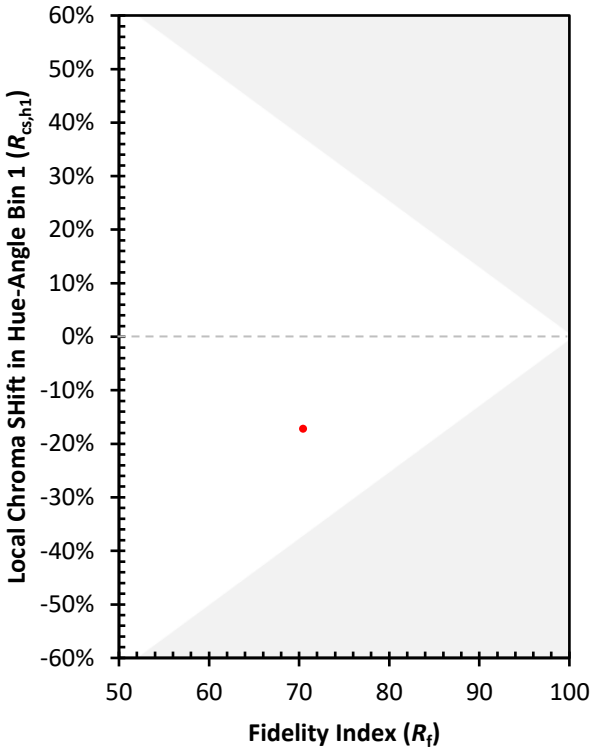


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Measure Comparisons





(END OF REPORT)