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: P1501385

Luminaire Tested: GSS-SB4A-727-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:	P1501385
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-727-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16102.7 lumens
Efficiency:	N/A
Efficacy:	141.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

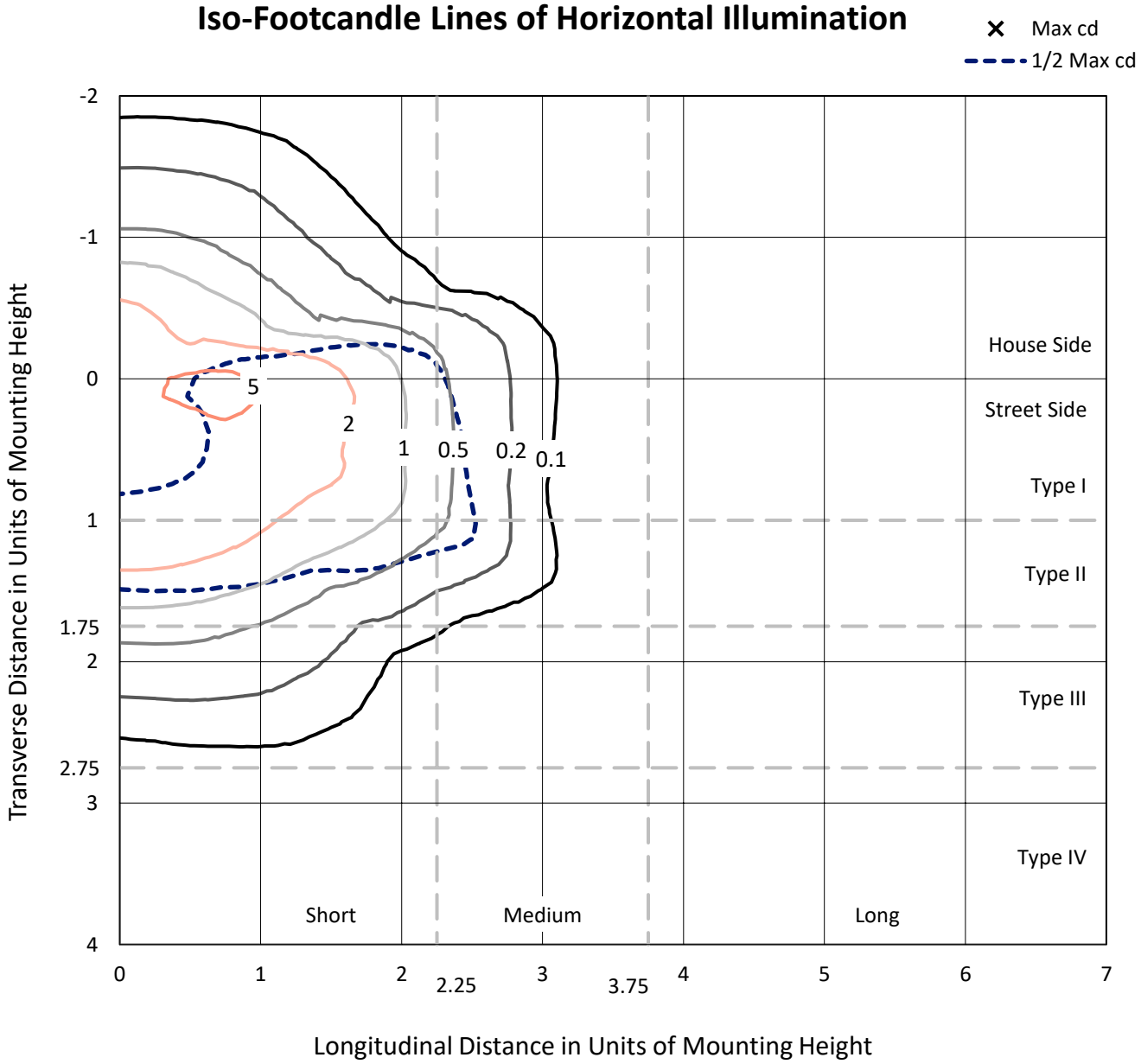
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



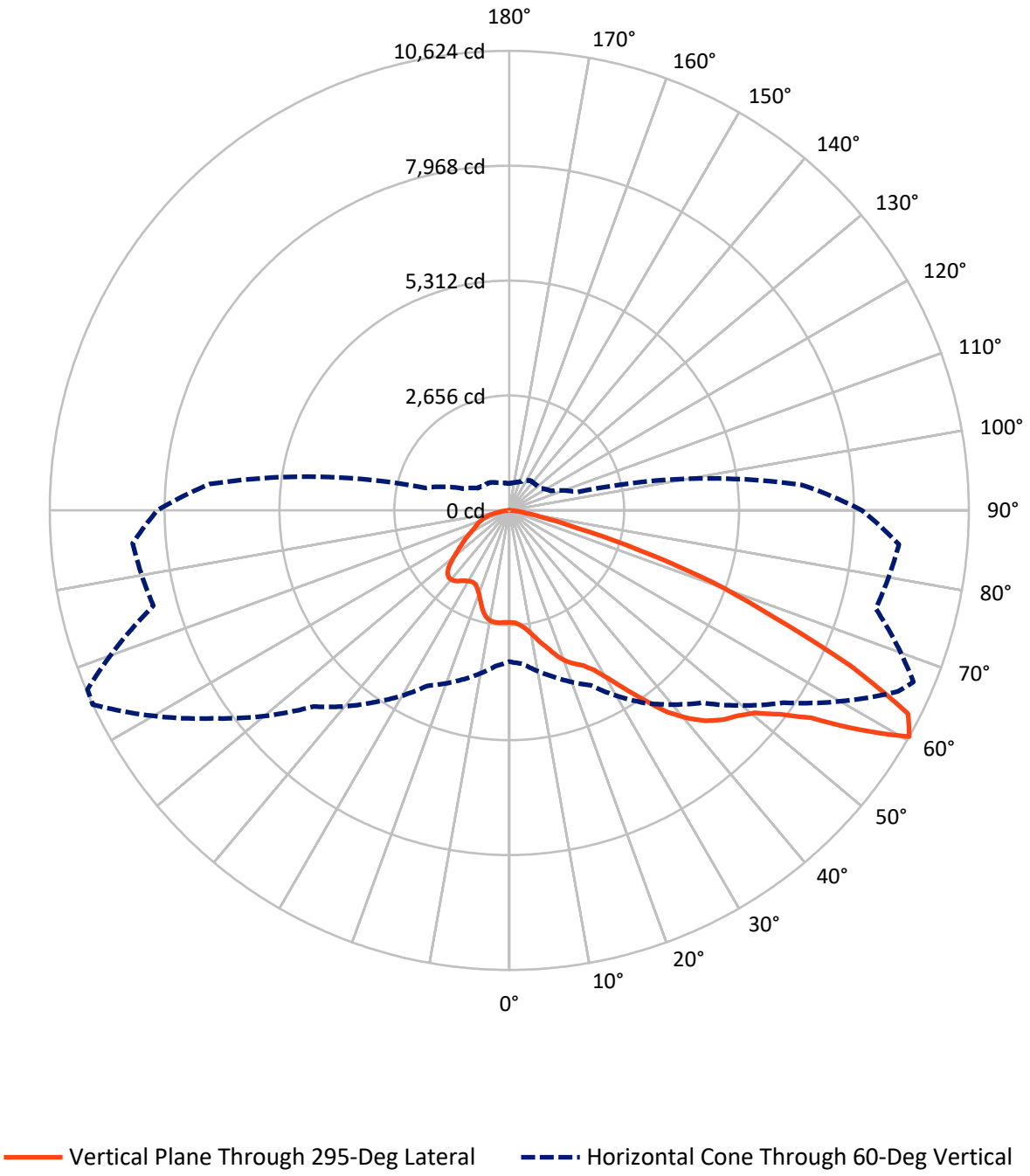
Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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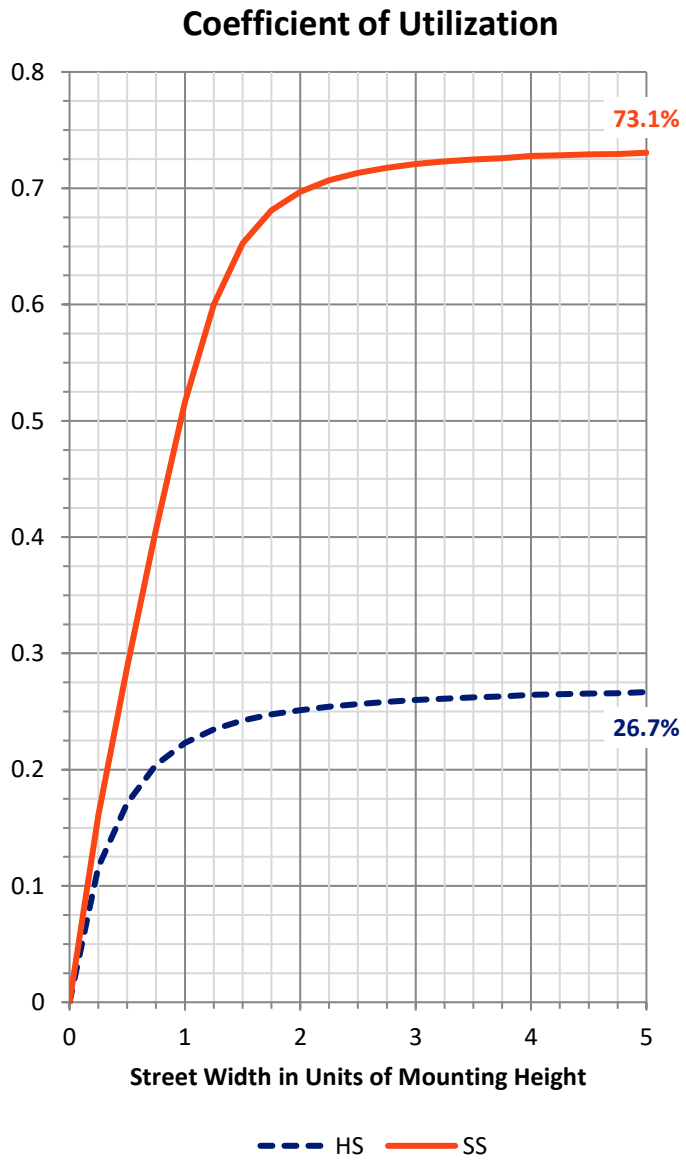
REPORT NUMBER: P1501385
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4330.2	0.0	4330.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11772.5	0.0	11772.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	16102.7	0.0	16102.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.5
10°-20°	700.3	4.3
20°-30°	1326.4	8.2
30°-40°	2338.4	14.5
40°-50°	3458.3	21.5
50°-60°	4061.0	25.2
60°-70°	2942.4	18.3
70°-80°	907.4	5.6
80°-90°	124.9	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°	16102.7	100.0
0°-180°	16102.7	100.0



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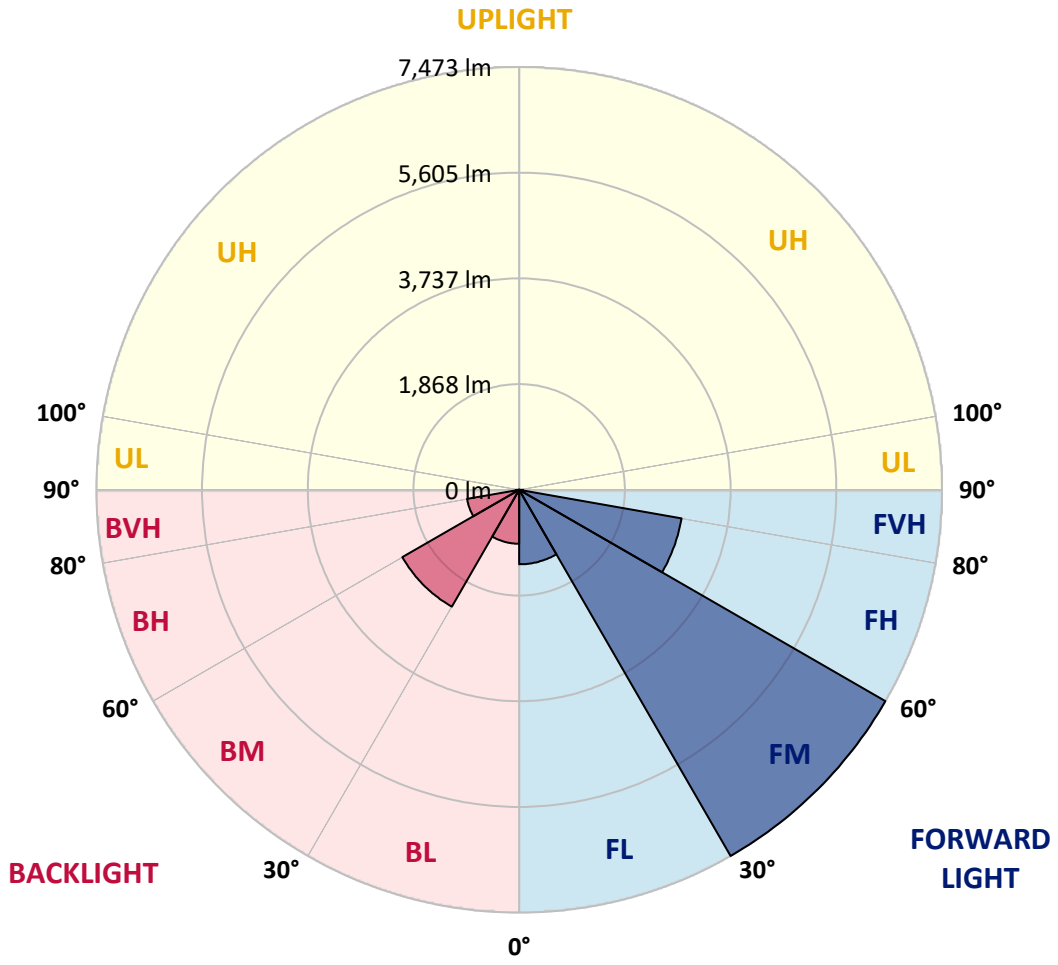
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1316.7	8.2			
FM	(30°-60°)	7473.4	46.4			
FH	(60°-80°)	2915.1	18.1			G2/5000
FVH	(80°-90°)	67.4	0.4			G1/100
BL	(0°-30°)	953.7	5.9	B2/1000		
BM	(30°-60°)	2384.3	14.8	B2/2500		
BH	(60°-80°)	934.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	57.5	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°	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2642.2	2649.6	2638.6	2645.9	2645.9	2634.9	2631.2	2616.5	2623.9	2620.2	2616.5
5°	2704.6	2708.3	2700.9	2712.0	2712.0	2715.6	2712.0	2693.6	2693.6	2693.6	2686.3
7.5°	2686.3	2686.3	2689.9	2726.6	2763.3	2811.0	2811.0	2803.7	2811.0	2807.4	2774.3
10°	2532.1	2546.8	2579.8	2671.6	2759.7	2862.4	2932.1	2954.2	2954.2	2957.8	2902.8
12.5°	2256.9	2267.9	2345.0	2484.4	2667.9	2855.1	3023.9	3134.0	3145.0	3163.3	3089.9
15°	2011.0	2018.4	2073.4	2216.5	2425.7	2756.0	3075.3	3302.8	3339.5	3416.5	3306.5
17.5°	2033.0	2029.4	2044.1	2099.1	2249.6	2594.5	3064.2	3501.0	3567.0	3702.8	3607.4
20°	2165.2	2165.2	2176.2	2187.2	2242.2	2477.1	2983.5	3662.4	3790.9	4055.1	3945.0
22.5°	2374.3	2374.3	2370.7	2389.0	2389.0	2528.5	2987.2	3783.5	3974.3	4447.7	4341.3
25°	2664.2	2649.6	2649.6	2656.9	2623.9	2723.0	3078.9	3908.3	4157.8	4913.8	4822.1
27.5°	2990.9	3001.9	2994.5	2968.8	2924.8	3001.9	3299.1	4102.8	4363.3	5405.6	5368.9
30°	3346.8	3350.5	3357.8	3343.2	3306.5	3361.5	3644.1	4396.4	4634.9	5919.3	6000.1
32.5°	3695.4	3746.8	3728.5	3691.8	3706.5	3805.5	4069.8	4792.7	5038.6	6396.4	6682.6
35°	4139.5	4157.8	4231.2	4095.5	4099.1	4267.9	4612.9	5313.8	5552.3	6891.8	7365.2
37.5°	4785.4	4818.4	4785.4	4572.5	4539.5	4774.4	5141.3	5827.6	6000.1	7266.1	8000.1
40°	5420.2	5460.6	5515.6	5266.1	5056.9	5251.4	5640.4	6220.2	6400.1	7471.6	8422.1
42.5°	5945.0	6011.1	5952.3	5879.0	5688.1	5724.8	5989.0	6524.8	6704.7	7732.2	8847.8
45°	6389.1	6400.1	6425.7	6374.4	6279.0	6245.9	6286.3	6792.7	6990.9	7849.6	9057.0
47.5°	6572.5	6620.2	6642.3	6730.3	6829.4	6763.4	6539.5	6917.5	7097.3	7842.3	9123.0
50°	6473.5	6521.2	6638.6	6847.8	7086.3	7203.7	6836.8	7090.0	7291.8	7974.4	9258.8
52.5°	6212.9	6264.3	6455.1	6693.6	7093.6	7361.5	7255.1	7449.6	7644.1	8209.3	9486.3
55°	5581.7	5658.8	5926.7	6323.0	6873.5	7277.1	7695.5	7978.1	8190.9	8491.8	9721.2
57.5°	4664.3	4745.0	5045.9	5640.4	6466.1	6928.5	7823.9	8968.9	9064.3	8829.4	9743.2
60°	*3493.6*	*3559.7*	*3985.4*	*4462.4*	*5431.2*	*6290.0*	*7750.5*	*9908.4*	*10150.6*	*8770.7*	*9042.3*
62.5°	2767.0	2847.7	3225.7	3445.9	4139.5	5196.4	7493.6	10168.9	10378.1	8286.3	8066.1
65°	2161.5	2216.5	2568.8	2884.4	3053.2	3548.7	6422.1	8895.5	9082.7	7497.3	6656.9
67.5°	1427.5	1511.9	1930.3	2363.3	2451.4	2256.9	4418.4	6844.1	6932.2	5959.7	5005.6
70°	1023.9	1064.2	1376.2	1838.5	1970.7	1511.9	2407.4	5181.7	5207.4	4000.0	3372.5
72.5°	697.3	704.6	935.8	1409.2	1570.7	1097.3	1324.8	3412.9	3324.8	1974.3	1930.3
75°	473.4	480.7	598.2	939.5	1111.9	763.3	862.4	1860.6	1787.2	1089.9	1170.7
77.5°	319.3	326.6	411.0	631.2	741.3	528.4	631.2	983.5	965.1	722.9	627.5
80°	242.2	253.2	304.6	403.7	517.4	308.3	359.6	466.1	473.4	385.3	319.3
82.5°	135.8	150.5	183.5	205.5	333.9	172.5	172.5	278.9	267.9	238.5	172.5
85°	58.7	62.4	73.4	77.1	135.8	73.4	62.4	121.1	124.8	117.4	55.0
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	14.7	14.7	14.7
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°	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2598.2	2620.2	2598.2	2587.2	2587.2	2568.8	2561.5	2561.5	2535.8	2546.8	2539.5
5°	2656.9	2664.2	2638.6	2605.5	2561.5	2524.8	2473.4	2407.4	2367.0	2363.3	2367.0
7.5°	2748.6	2752.3	2682.6	2609.2	2499.1	2367.0	2209.2	2080.8	1967.0	1948.6	1970.7
10°	2877.1	2869.8	2767.0	2594.5	2363.3	2084.4	1842.2	1724.8	1658.7	1655.1	1651.4
12.5°	3049.6	3001.9	2844.1	2532.1	2128.5	1805.5	1680.7	1673.4	1691.8	1706.4	1710.1
15°	3247.7	3185.4	2906.4	2411.0	1889.9	1702.8	1710.1	1772.5	1794.5	1809.2	1809.2
17.5°	3493.6	3412.9	2976.2	2238.6	1768.8	1724.8	1776.2	1834.9	1871.6	1886.3	1882.6
20°	3820.2	3651.4	3031.2	2073.4	1735.8	1761.5	1805.5	1864.2	1900.9	1919.3	1919.3
22.5°	4146.8	3937.7	3042.2	1959.7	1735.8	1765.2	1805.5	1864.2	1904.6	1923.0	1919.3
25°	4590.9	4304.6	3045.9	1878.9	1739.5	1746.8	1783.5	1834.9	1893.6	1911.9	1919.3
27.5°	5064.3	4708.3	3064.2	1860.6	1724.8	1721.1	1746.8	1794.5	1853.2	1900.9	1904.6
30°	5651.4	5163.4	3071.6	1878.9	1728.5	1680.7	1699.1	1746.8	1809.2	1856.9	1871.6
32.5°	6227.6	5585.4	3056.9	1919.3	1735.8	1655.1	1658.7	1688.1	1754.1	1787.2	1812.9
35°	6836.8	6033.1	3031.2	1974.3	1739.5	1644.1	1611.0	1625.7	1669.7	1673.4	1684.4
37.5°	7313.8	6367.0	2954.2	2047.7	1746.8	1603.7	1537.6	1526.6	1508.3	1471.6	1478.9
40°	7706.5	6590.9	2825.7	2084.4	1728.5	1556.0	1445.9	1394.5	1324.8	1269.7	1280.7
42.5°	7989.1	6741.3	2671.6	2091.8	1699.1	1475.2	1339.5	1251.4	1174.3	1115.6	1119.3
45°	8113.8	6726.7	2506.4	2036.7	1629.4	1376.2	1240.4	1156.0	1071.6	1009.2	1001.8
47.5°	8117.5	6583.5	2278.9	1904.6	1511.9	1262.4	1148.6	1056.9	987.2	943.1	939.5
50°	8146.9	6502.8	2066.1	1713.8	1357.8	1141.3	1067.9	976.2	935.8	873.4	855.1
52.5°	8330.4	6634.9	1919.3	1504.6	1214.7	1053.2	998.2	917.4	851.4	811.0	807.3
55°	8627.6	6862.4	1838.5	1346.8	1078.9	968.8	932.1	862.4	803.7	763.3	752.3
57.5°	8664.3	6979.9	1743.1	1200.0	968.8	902.8	888.1	811.0	726.6	697.3	686.2
60°	*8150.5*	*6781.7*	*1625.7*	*1064.2*	*888.1*	*851.4*	*844.0*	*741.3*	*671.6*	*634.9*	*620.2*
62.5°	7449.6	6286.3	1445.9	939.5	825.7	800.0	770.6	689.9	601.8	561.5	550.5
65°	6088.1	5284.5	1229.4	855.1	763.3	734.0	726.6	616.5	557.8	535.8	532.1
67.5°	4612.9	4245.9	1082.6	792.7	697.3	686.2	660.6	623.9	598.2	572.5	565.1
70°	3262.4	3064.2	921.1	711.9	631.2	612.8	719.3	678.9	587.2	554.1	550.5
72.5°	1978.0	1923.0	796.3	638.5	543.1	572.5	664.2	612.8	528.4	488.1	473.4
75°	1247.7	1141.3	667.9	543.1	433.0	466.1	579.8	546.8	455.1	414.7	403.7
77.5°	678.9	631.2	502.8	444.0	341.3	378.0	506.4	451.4	363.3	396.3	352.3
80°	297.3	330.3	333.9	256.9	227.5	278.9	363.3	352.3	278.9	282.6	234.9
82.5°	143.1	187.2	216.5	176.1	128.4	165.1	242.2	201.8	187.2	176.1	168.8
85°	44.0	69.7	95.4	84.4	58.7	69.7	113.8	110.1	132.1	113.8	106.4
87.5°	14.7	14.7	11.0	11.0	11.0	14.7	18.3	11.0	3.7	3.7	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°	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2535.8	2539.5	2539.5	2543.1	2543.1	2554.2	2568.8	2583.5	2572.5	2587.2	2590.9
5°	2359.7	2378.0	2392.7	2447.7	2491.8	2528.5	2568.8	2605.5	2616.5	2623.9	2642.2
7.5°	1945.0	1996.3	2091.8	2216.5	2356.0	2491.8	2583.5	2678.9	2693.6	2712.0	2737.6
10°	1655.1	1677.1	1743.1	1871.6	2121.1	2389.0	2612.9	2763.3	2825.7	2862.4	2888.1
12.5°	1702.8	1688.1	1677.1	1695.4	1856.9	2201.9	2594.5	2884.4	3001.9	3042.2	3075.3
15°	1816.5	1801.9	1761.5	1710.1	1728.5	2003.7	2532.1	2998.2	3185.4	3251.4	3321.1
17.5°	1882.6	1867.9	1834.9	1779.8	1732.1	1838.5	2414.7	3100.9	3475.3	3556.0	3655.1
20°	1919.3	1904.6	1871.6	1816.5	1761.5	1776.2	2264.2	3229.4	3805.5	3934.0	4080.8
22.5°	1926.6	1908.3	1871.6	1816.5	1783.5	1772.5	2121.1	3306.5	4161.5	4359.7	4528.5
25°	1923.0	1889.9	1842.2	1801.9	1783.5	1779.8	2022.0	3350.5	4546.8	4862.4	5053.3
27.5°	1897.3	1856.9	1809.2	1779.8	1772.5	1794.5	1978.0	3401.9	4998.2	5401.9	5706.5
30°	1867.9	1809.2	1750.5	1739.5	1757.8	1827.5	2014.7	3420.2	5471.6	5989.0	6301.0
32.5°	1790.8	1746.8	1688.1	1684.4	1728.5	1853.2	2099.1	3394.5	5890.0	6576.2	6968.9
35°	1680.7	1655.1	1622.0	1633.0	1702.8	1875.2	2157.8	3313.8	6271.6	7123.0	7581.7
37.5°	1486.3	1504.6	1523.0	1548.6	1636.7	1871.6	2183.5	3185.4	6587.2	7559.7	8146.9
40°	1269.7	1332.1	1390.8	1456.9	1574.3	1842.2	2190.8	3027.6	6770.7	7890.0	8649.6
42.5°	1134.0	1192.7	1266.1	1361.5	1489.9	1776.2	2183.5	2851.4	6829.4	8117.5	8968.9
45°	1009.2	1078.9	1170.7	1269.7	1416.5	1680.7	2117.5	2660.6	6858.8	8223.9	9104.7
47.5°	943.1	983.5	1067.9	1167.0	1321.1	1563.3	1989.0	2521.1	6814.7	8245.9	9269.8
50°	866.1	921.1	976.2	1071.6	1222.0	1416.5	1834.9	2440.4	6888.1	8462.5	9530.4
52.5°	807.3	836.7	895.4	983.5	1093.6	1280.7	1688.1	2374.3	7090.0	8682.7	9801.9
55°	763.3	796.3	833.0	906.4	990.8	1145.0	1537.6	2275.3	7324.8	8917.5	10073.5
57.5°	693.6	715.6	767.0	844.0	899.1	1012.9	1361.5	2157.8	7306.5	8734.0	9603.8
60°	*631.2*	*653.2*	*708.3*	*785.3*	*818.4*	*895.4*	*1189.0*	*2007.4*	*6954.2*	*8135.9*	*8737.7*
62.5°	561.5	587.2	653.2	708.3	737.6	796.3	1009.2	1732.1	6220.2	7236.8	7724.8
65°	532.1	546.8	590.8	656.9	653.2	708.3	851.4	1361.5	5005.6	5530.3	5974.4
67.5°	565.1	587.2	579.8	598.2	587.2	616.5	763.3	1093.6	3934.0	4165.2	4422.1
70°	557.8	609.2	634.9	598.2	513.8	546.8	660.6	873.4	2814.7	2792.7	2781.7
72.5°	488.1	539.5	612.8	649.5	502.8	455.1	572.5	756.0	1805.5	1798.2	1625.7
75°	414.7	451.4	539.5	587.2	433.0	367.0	491.7	642.2	1078.9	1093.6	976.2
77.5°	381.7	363.3	451.4	517.4	352.3	282.6	396.3	484.4	594.5	601.8	557.8
80°	275.2	264.2	337.6	378.0	267.9	201.8	223.9	300.9	319.3	286.2	297.3
82.5°	176.1	179.8	201.8	242.2	165.1	110.1	154.1	201.8	172.5	139.5	165.1
85°	113.8	128.4	106.4	124.8	51.4	51.4	66.1	88.1	58.7	40.4	44.0
87.5°	0.0	0.0	7.3	14.7	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: P1501385
CATALOG NUMBER: GSS-SB4A-727-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2590.9	2590.9	*2590.9*	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2601.9	2598.2	*2598.2*	2605.5	2623.9	2631.2	2642.2	2638.6	2649.6	2642.2
5°	2653.2	2656.9	*2667.9*	2671.6	2682.6	2697.3	2700.9	2697.3	2704.6	2704.6
7.5°	2756.0	2770.7	*2763.3*	2781.7	2767.0	2748.6	2719.3	2697.3	2678.9	2686.3
10°	2928.5	2921.1	*2917.5*	2884.4	2818.4	2723.0	2645.9	2561.5	2546.8	2532.1
12.5°	3119.3	3112.0	*3112.0*	2998.2	2811.0	2612.9	2436.7	2304.6	2260.6	2256.9
15°	3387.2	3339.5	*3295.4*	3056.9	2682.6	2345.0	2139.5	2036.7	2011.0	2011.0
17.5°	3721.1	3596.4	*3523.0*	3012.9	2473.4	2168.8	2047.7	2022.0	2014.7	2033.0
20°	4135.8	3820.2	*3713.8*	2913.8	2396.4	2190.8	2132.1	2135.8	2139.5	2165.2
22.5°	4590.9	4025.7	*3849.6*	2913.8	2473.4	2330.3	2300.9	2341.3	2352.3	2374.3
25°	5097.3	4209.2	*3970.7*	3067.9	2700.9	2594.5	2557.8	2598.2	2627.5	2664.2
27.5°	5666.1	4400.0	*4179.9*	3346.8	2994.5	2928.5	2888.1	2906.4	2946.8	2990.9
30°	6176.2	4719.3	*4499.1*	3772.5	3394.5	3313.8	3244.1	3273.4	3317.5	3346.8
32.5°	6627.6	5108.3	*4921.1*	4220.2	3853.2	3713.8	3636.7	3629.4	3717.5	3695.4
35°	7042.3	5567.0	*5387.2*	4730.3	4319.3	4146.8	4044.1	4176.2	4117.5	4139.5
37.5°	7368.9	6044.1	*5901.0*	5218.4	4803.7	4568.9	4506.5	4667.9	4759.7	4785.4
40°	7636.8	6458.8	*6308.3*	5702.8	5247.8	5075.3	5174.4	5442.3	5431.2	5420.2
42.5°	7842.3	6814.7	*6649.6*	6069.8	5673.4	5706.5	5783.5	5963.4	6007.4	5945.0
45°	7934.0	7038.6	*6906.5*	6359.7	6157.9	6348.7	6381.7	6458.8	6429.4	6389.1
47.5°	8040.4	7236.8	*7097.3*	6623.9	6682.6	6869.8	6803.7	6741.3	6634.9	6572.5
50°	8220.3	7471.6	*7354.2*	7009.2	7222.1	7159.7	6902.8	6763.4	6546.9	6473.5
52.5°	8561.5	7915.7	*7827.6*	7618.4	7475.3	7115.7	6803.7	6554.2	6312.0	6212.9
55°	8866.1	8517.5	*8466.1*	8187.2	7398.2	6884.5	6466.1	6080.8	5666.1	5581.7
57.5°	9042.3	9515.7	*9574.4*	8429.4	7045.9	6359.7	5743.2	5126.7	4734.0	4664.3
60°	*8517.5*	*10594.6*	*10624.0*	*8381.7*	*6411.1*	*5412.9*	*4473.4*	*4036.7*	*3614.7*	*3493.6*
62.5°	7794.6	10370.7	*10345.1*	8095.5	5104.6	3948.7	3398.2	3192.7	2866.1	2767.0
65°	6701.0	8638.6	*8668.0*	6994.6	3394.5	2855.1	2855.1	2594.5	2231.2	2161.5
67.5°	5460.6	6660.6	*6594.6*	4535.8	2084.4	2286.3	2396.4	2022.0	1511.9	1427.5
70°	3548.7	5086.3	*4994.5*	2616.5	1310.1	1904.6	1886.3	1519.3	1082.6	1023.9
72.5°	1526.6	2939.5	*3126.6*	1335.8	987.2	1534.0	1504.6	1064.2	722.9	697.3
75°	921.1	1478.9	*1611.0*	851.4	719.3	1156.0	1042.2	675.2	491.7	473.4
77.5°	583.5	811.0	*803.7*	638.5	539.5	781.7	700.9	466.1	333.9	319.3
80°	337.6	400.0	*414.7*	400.0	363.3	557.8	447.7	337.6	260.6	242.2
82.5°	216.5	249.5	*253.2*	194.5	201.8	359.6	242.2	198.2	150.5	135.8
85°	95.4	106.4	*102.8*	66.1	66.1	146.8	84.4	80.7	58.7	58.7
87.5°	3.7	7.3	*3.7*	3.7	3.7	14.7	7.3	11.0	11.0	11.0
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

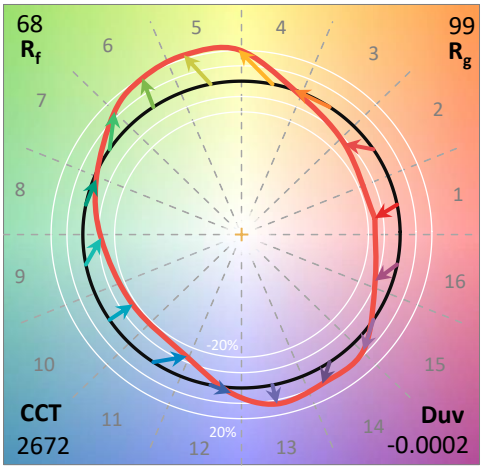
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-3
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-727-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672
CIE u':	0.2638
CIE v':	0.5276
Duv:	-0.0002
CIE x:	0.4619
CIE y:	0.4106
CIE z:	0.1275
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	584
Purity:	61.88407
Rf:	67.9
Rg:	98.6

CRI (Ra):	71.1
R1:	68.3
R2:	79.8
R3:	91.2
R4:	69.4
R5:	66.5
R6:	72.6
R7:	77.0
R8:	44.1
R9:	-27.8
R10:	54.4
R11:	65.8
R12:	45.6
R13:	69.8
R14:	94.5
R15:	60.1



Test Conditions

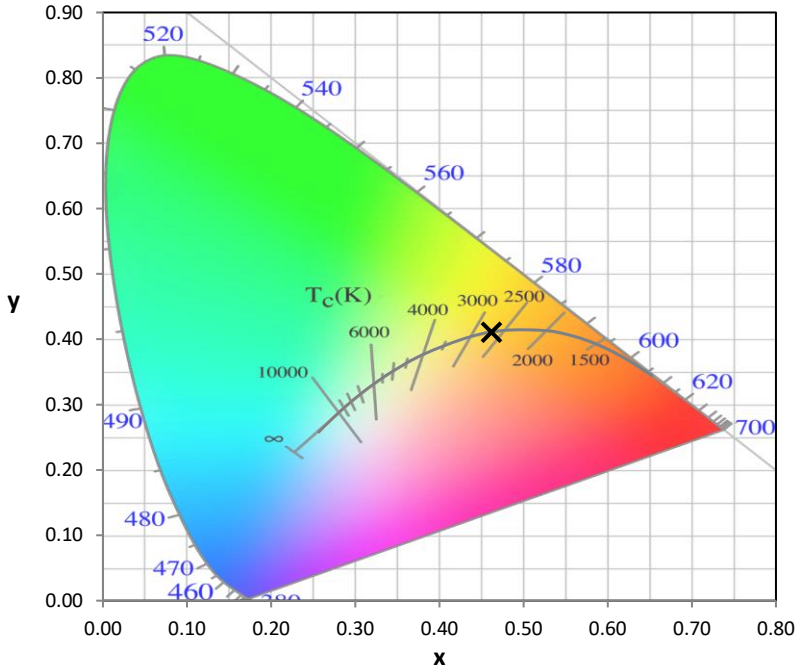
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

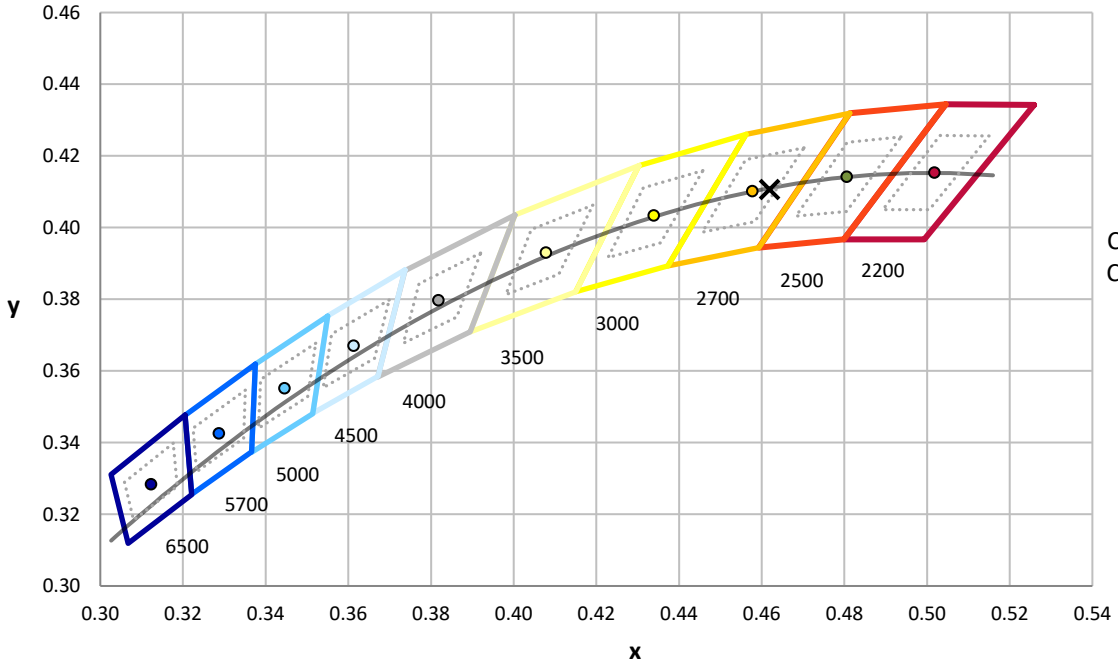
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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

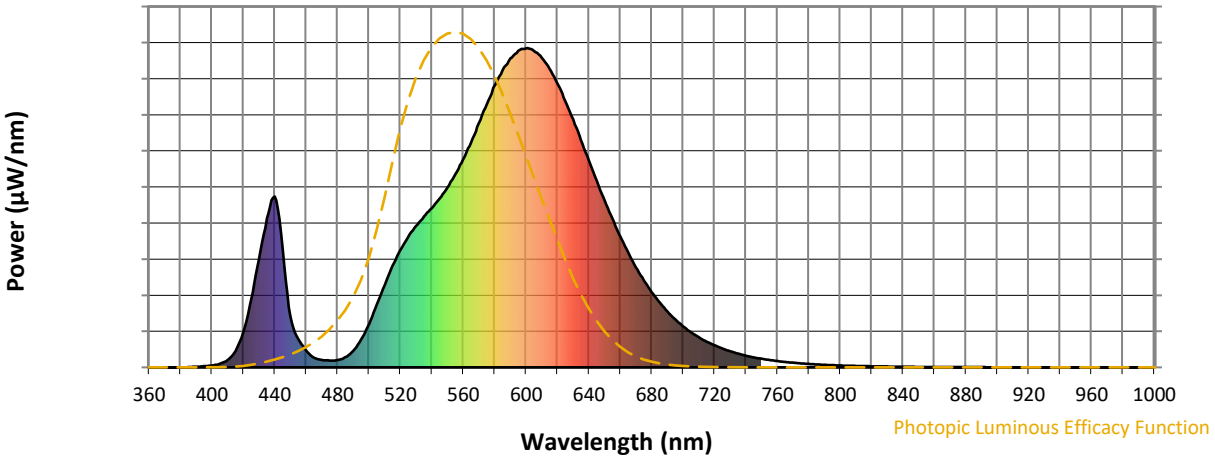


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

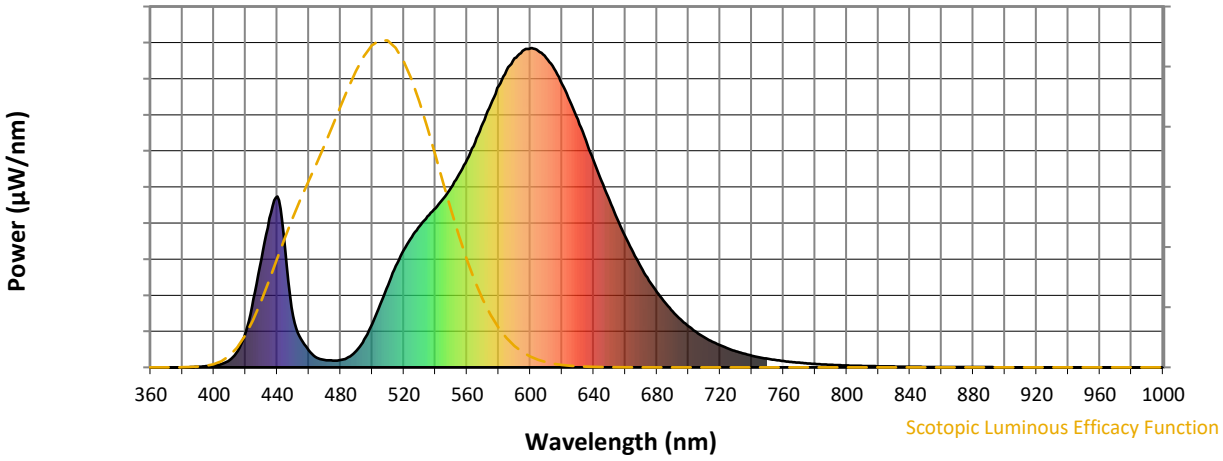


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength

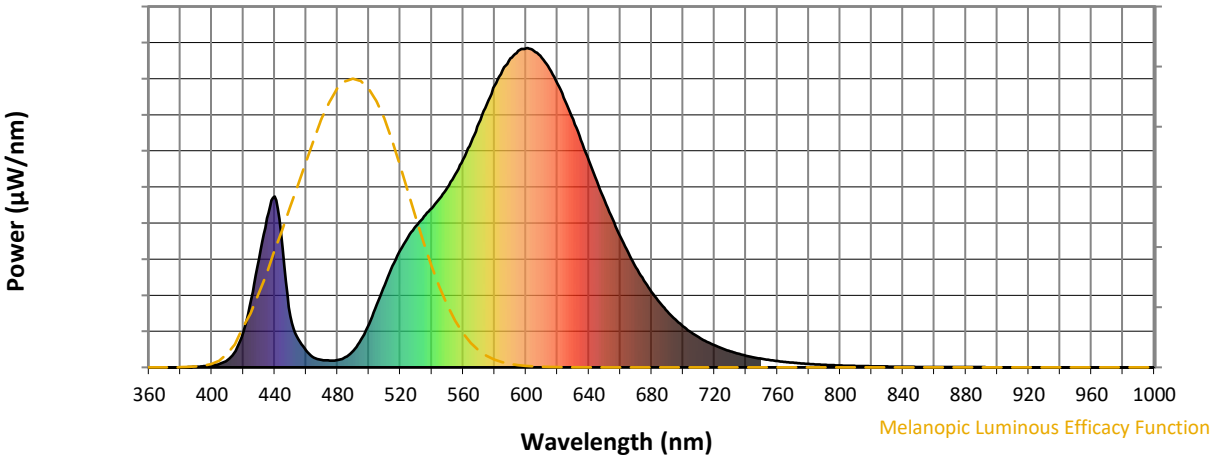


Scotopic Lumens: NR **S/P: 1.02**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.71**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

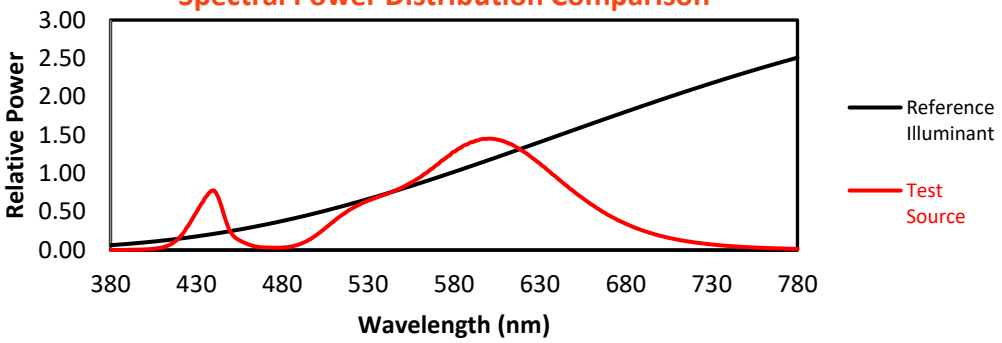
REPORT NUMBER: SP1-2407-184-3

TM-30-18

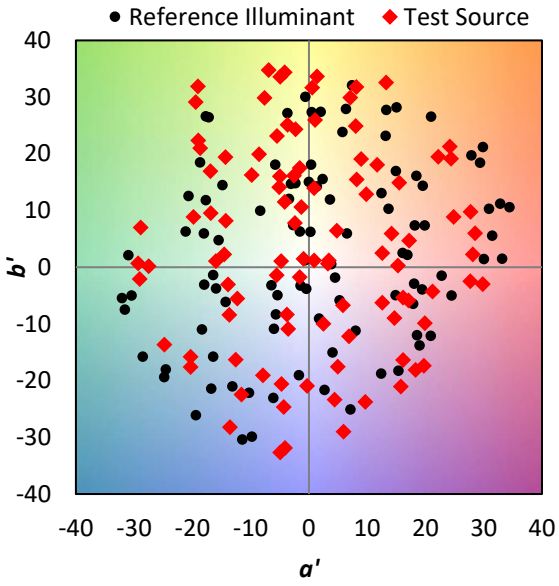
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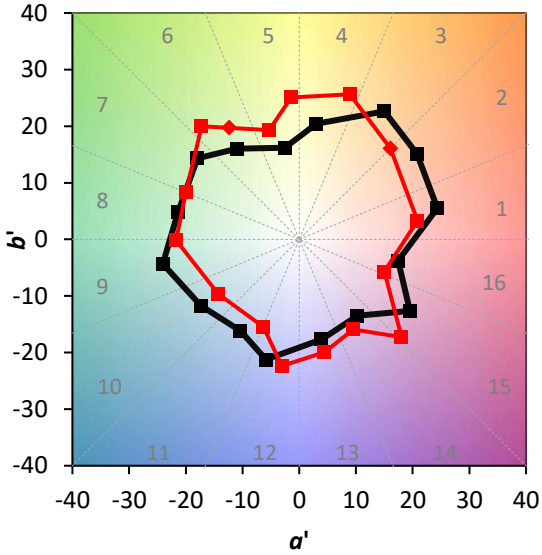
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

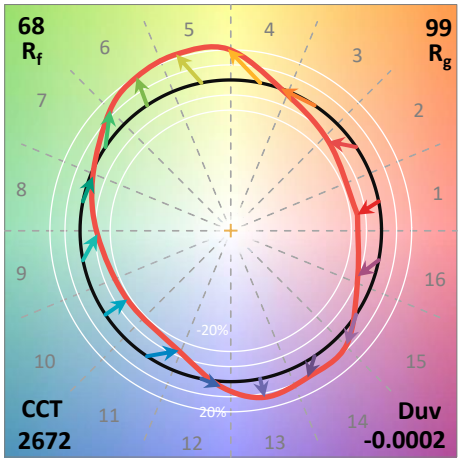
Spectral Power Distribution Comparison

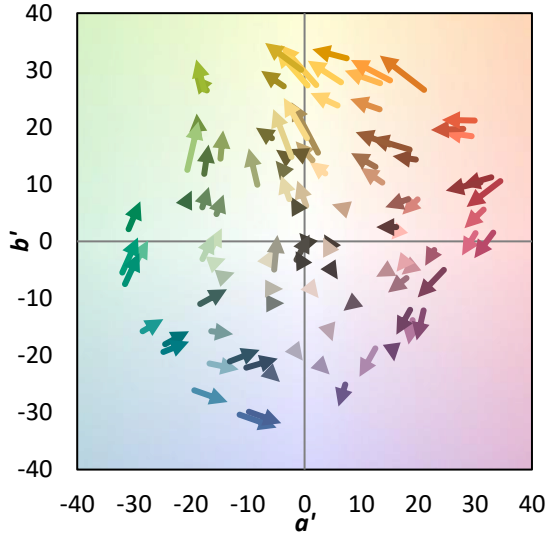


Color Vector Graphics







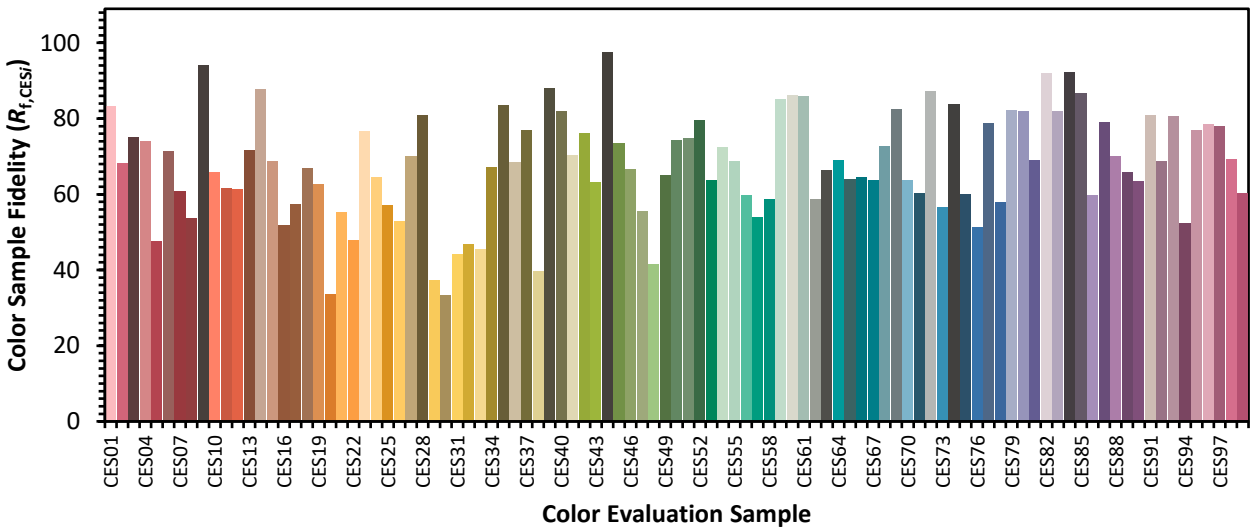


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Individual Sample Fidelity Index ($R_{f,i}$)

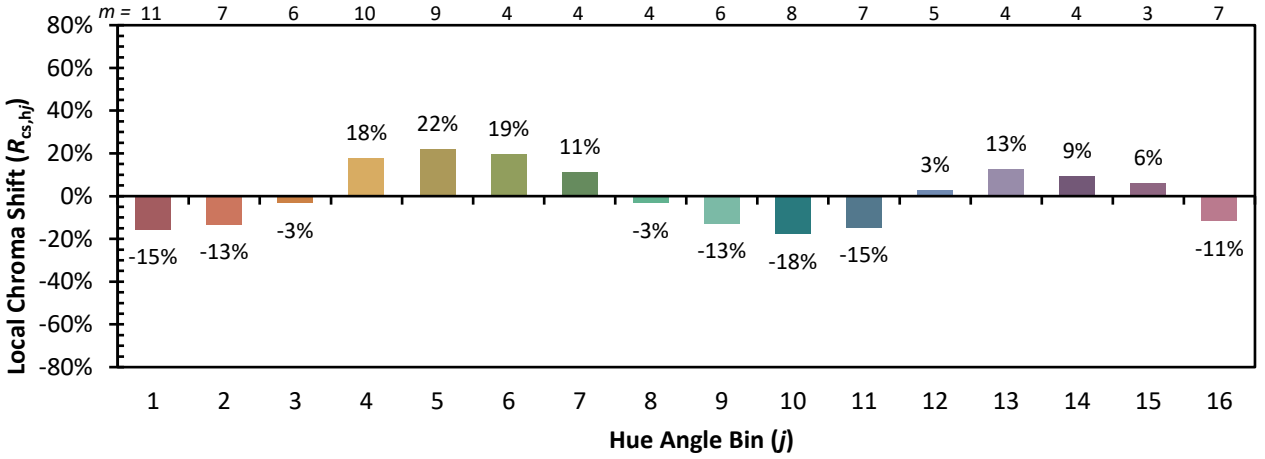
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	

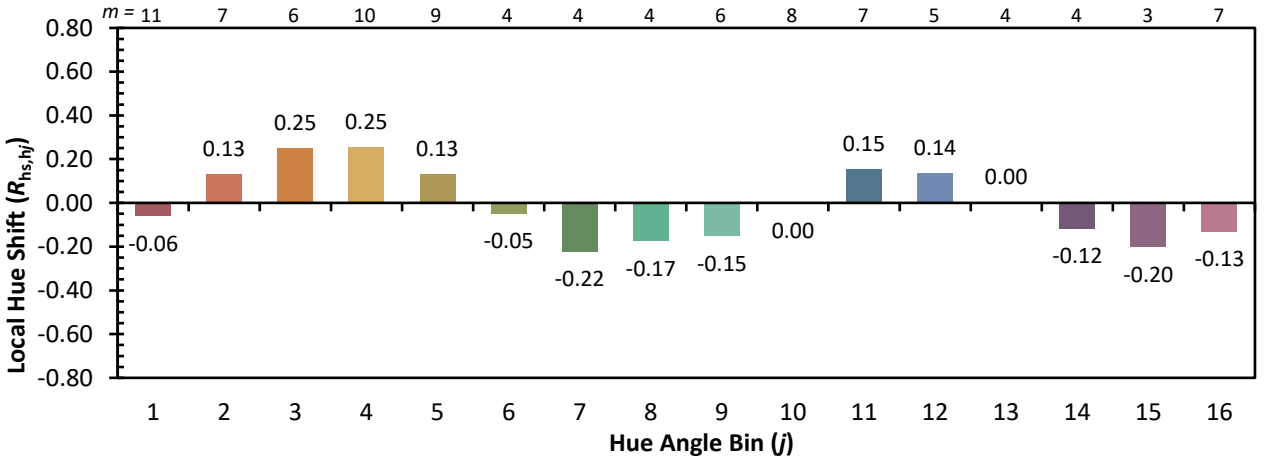


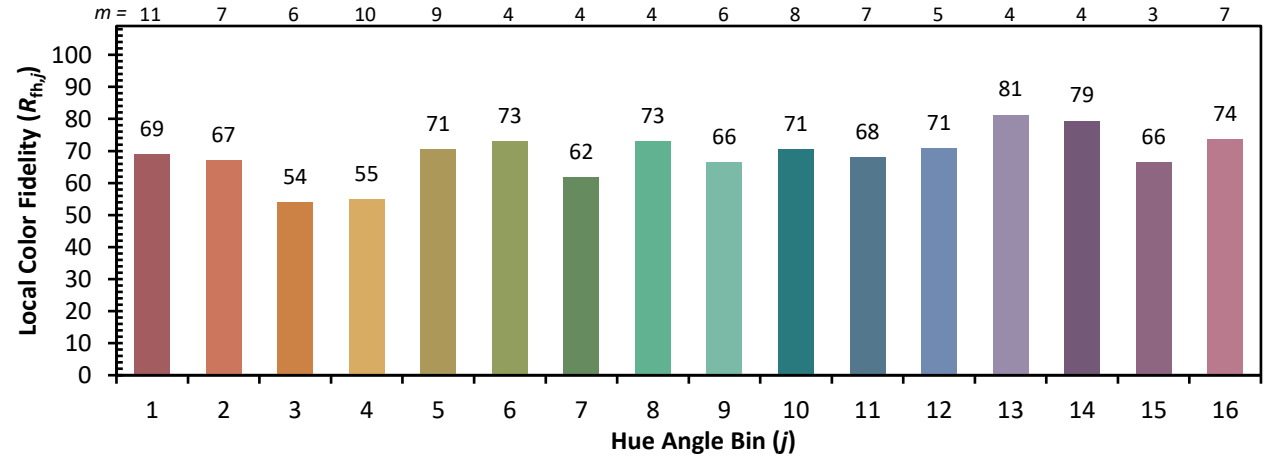
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Color Rendition by Hue-Angle Bin



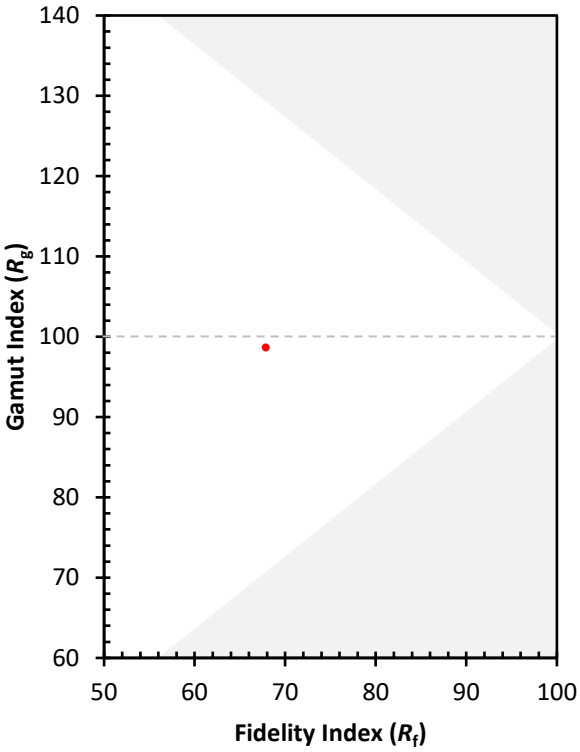


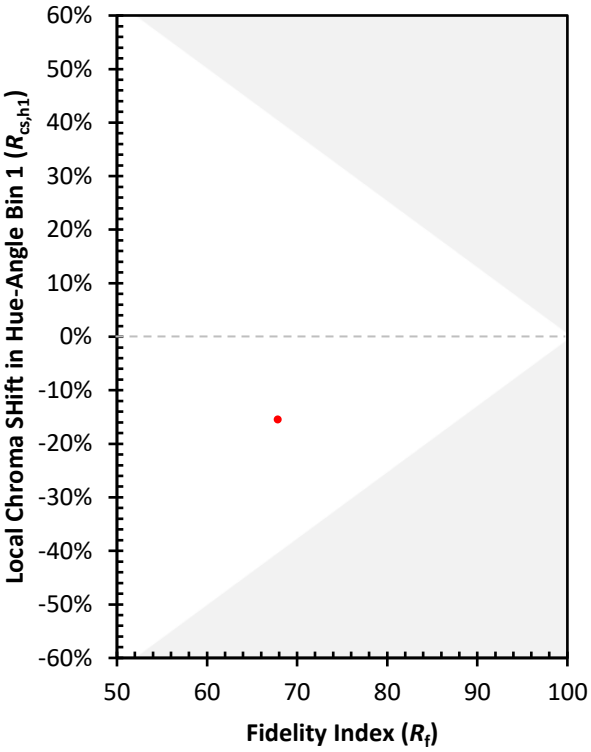


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Measure Comparisons





(END OF REPORT)