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: P1501524

Luminaire Tested: GSS-SB2D-830-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501524
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2D-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 147W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16998.1 lumens
Efficiency:	N/A
Efficacy:	115.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

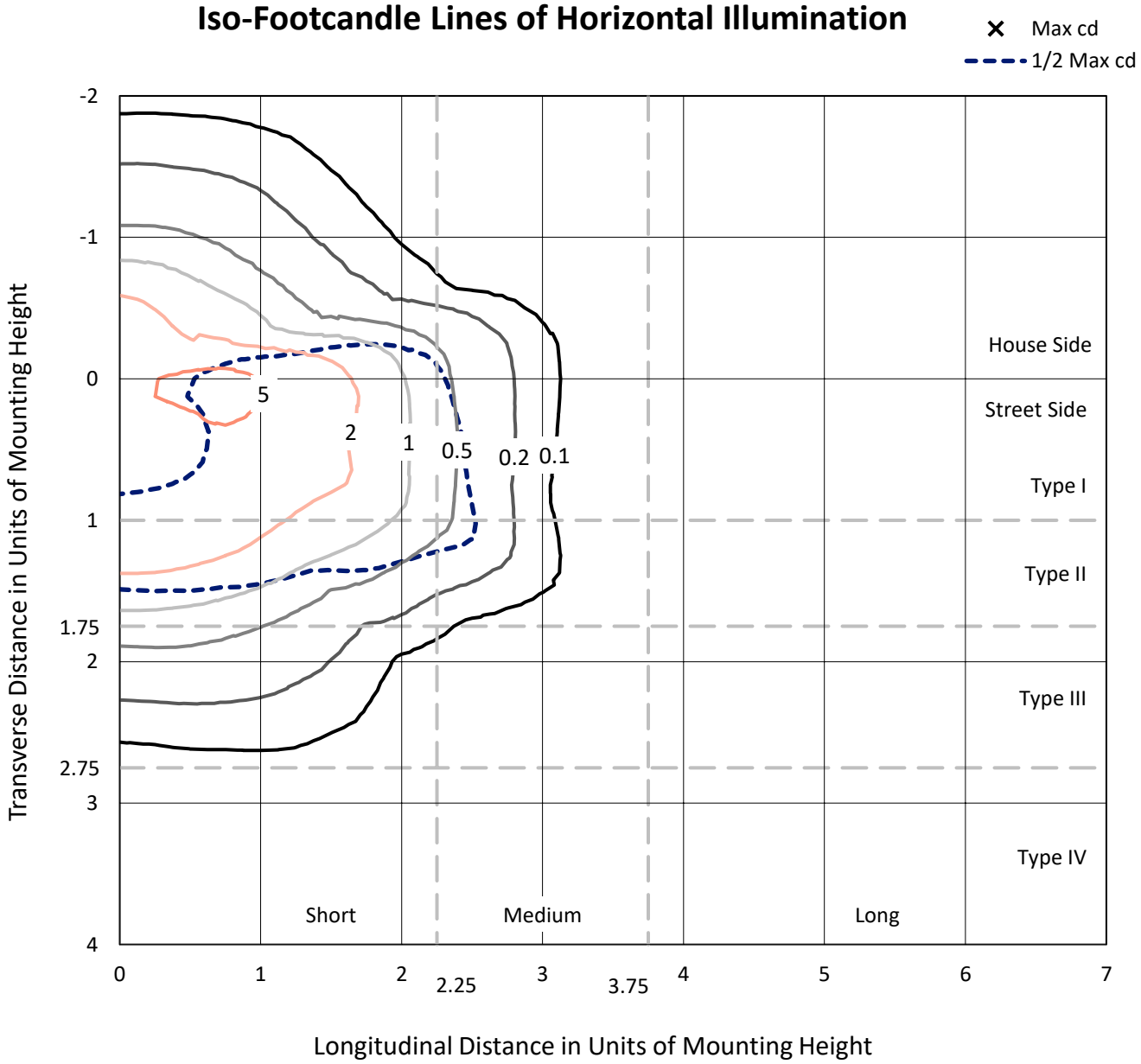
Input Watts (W):	147
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	3.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



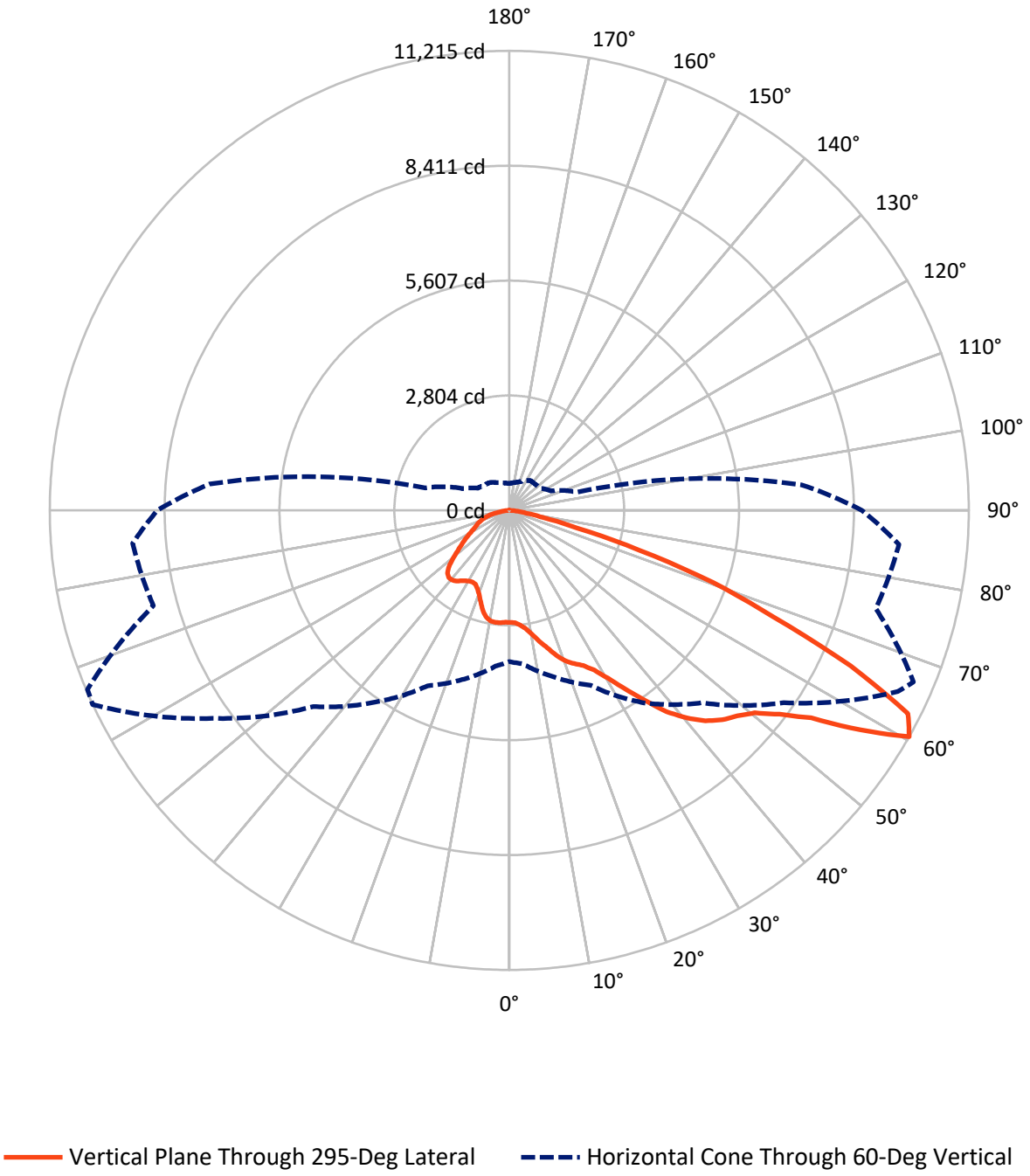
Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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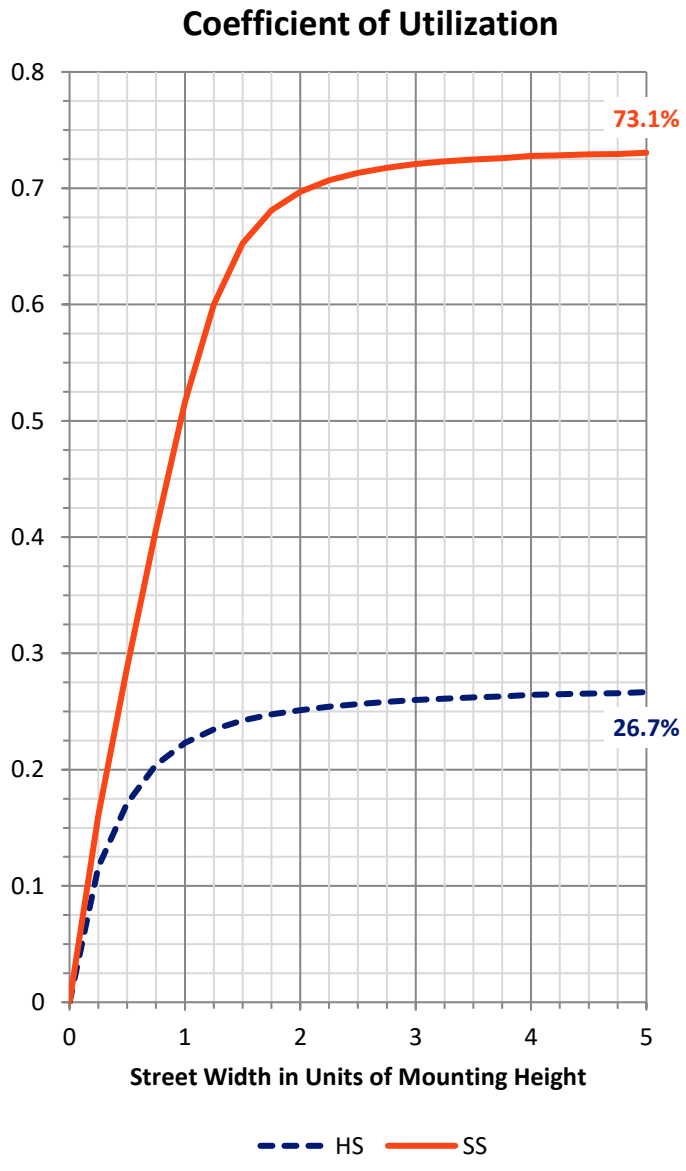
REPORT NUMBER: P1501524
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4571.0	0.0	4571.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12427.1	0.0	12427.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	16998.1	0.0	16998.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	1.5
10°-20°	739.2	4.3
20°-30°	1400.2	8.2
30°-40°	2468.5	14.5
40°-50°	3650.6	21.5
50°-60°	4286.8	25.2
60°-70°	3106.0	18.3
70°-80°	957.9	5.6
80°-90°	131.9	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°	16998.1	100.0
0°-180°	16998.1	100.0



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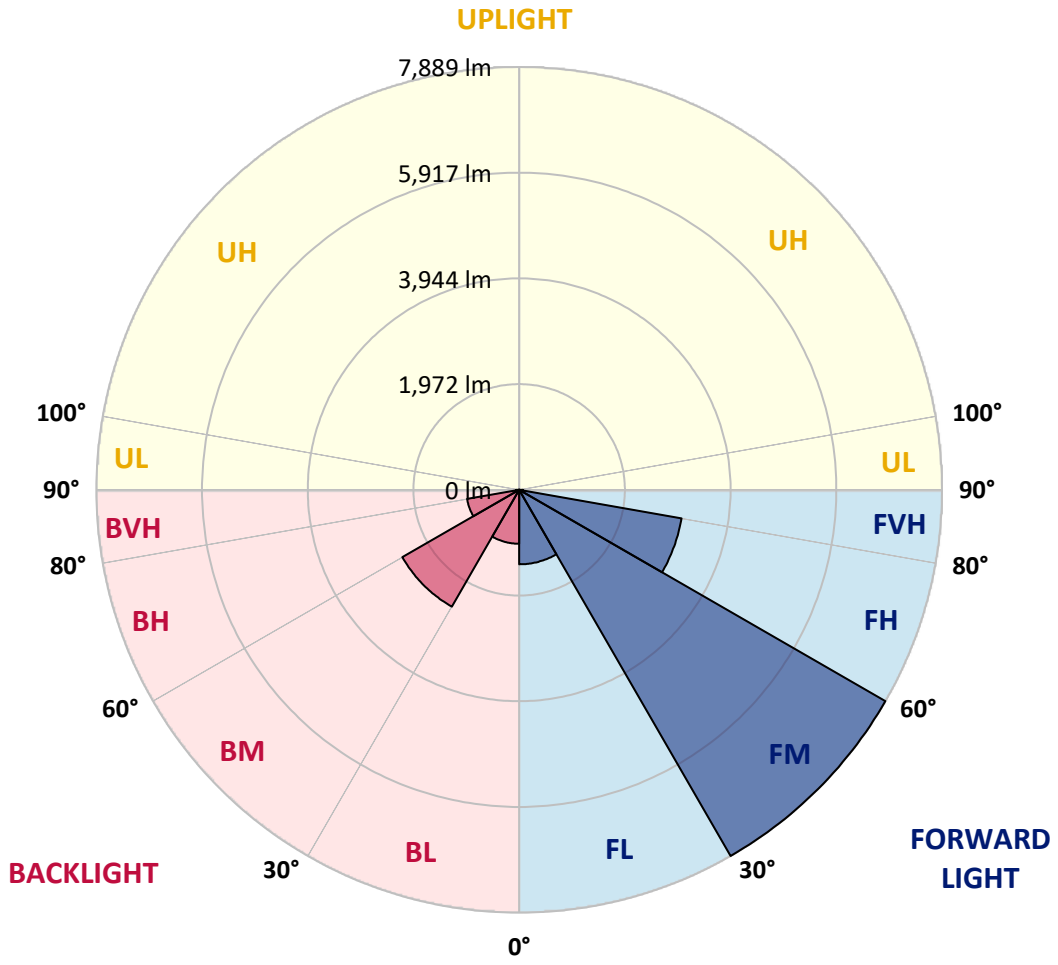
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1389.9	8.2			
FM	(30°-60°)	7888.9	46.4			
FH	(60°-80°)	3077.2	18.1			G2/5000
FVH	(80°-90°)	71.1	0.4			G1/100
BL	(0°-30°)	1006.7	5.9	B3/2500		
BM	(30°-60°)	2516.9	14.8	B3/5000		
BH	(60°-80°)	986.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	60.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9
2.5°	2789.2	2796.9	2785.3	2793.0	2793.0	2781.4	2777.5	2762.0	2769.8	2765.9	2762.0
5°	2855.0	2858.9	2851.1	2862.8	2862.8	2866.6	2862.8	2843.4	2843.4	2843.4	2835.6
7.5°	2835.6	2835.6	2839.5	2878.3	2917.0	2967.4	2967.4	2959.6	2967.4	2963.5	2928.6
10°	2672.9	2688.4	2723.3	2820.1	2913.1	3021.6	3095.2	3118.4	3118.4	3122.3	3064.2
12.5°	2382.4	2394.0	2475.4	2622.6	2816.3	3013.8	3192.0	3308.2	3319.9	3339.2	3261.8
15°	2122.9	2130.6	2188.7	2339.8	2560.6	2909.2	3246.3	3486.4	3525.2	3606.5	3490.3
17.5°	2146.1	2142.2	2157.7	2215.8	2374.7	2738.8	3234.6	3695.6	3765.4	3908.7	3808.0
20°	2285.6	2285.6	2297.2	2308.8	2366.9	2614.8	3149.4	3866.1	4001.7	4280.6	4164.4
22.5°	2506.4	2506.4	2502.5	2521.9	2521.9	2669.1	3153.3	3993.9	4195.4	4695.1	4582.7
25°	2812.4	2796.9	2796.9	2804.6	2769.8	2874.4	3250.1	4125.6	4389.0	5187.1	5090.2
27.5°	3157.2	3168.8	3161.0	3133.9	3087.4	3168.8	3482.6	4330.9	4606.0	5706.1	5667.4
30°	3532.9	3536.8	3544.6	3529.1	3490.3	3548.4	3846.7	4640.8	4892.6	6248.5	6333.7
32.5°	3900.9	3955.2	3935.8	3897.1	3912.6	4017.2	4296.1	5059.2	5318.8	6752.1	7054.2
35°	4369.7	4389.0	4466.5	4323.2	4327.1	4505.3	4869.4	5609.3	5861.1	7275.0	7774.8
37.5°	5051.5	5086.3	5051.5	4826.8	4791.9	5039.8	5427.2	6151.6	6333.7	7670.2	8444.9
40°	5721.6	5764.3	5822.4	5558.9	5338.1	5543.4	5954.1	6566.1	6756.0	7887.1	8890.4
42.5°	6275.6	6345.3	6283.3	6205.9	6004.4	6043.2	6322.1	6887.7	7077.5	8162.2	9339.8
45°	6744.3	6756.0	6783.1	6728.8	6628.1	6593.3	6635.9	7170.5	7379.6	8286.1	9560.6
47.5°	6938.0	6988.4	7011.6	7104.6	7209.2	7139.5	6903.2	7302.2	7492.0	8278.4	9630.3
50°	6833.4	6883.8	7007.8	7228.6	7480.4	7604.3	7216.9	7484.2	7697.3	8417.8	9773.7
52.5°	6558.4	6612.6	6814.1	7065.9	7488.1	7770.9	7658.6	7863.9	8069.2	8665.7	10013.8
55°	5892.1	5973.4	6256.2	6674.6	7255.7	7681.8	8123.4	8421.7	8646.4	8964.0	10261.8
57.5°	4923.6	5008.9	5326.5	5954.1	6825.7	7313.8	8259.0	9467.6	9568.3	9320.4	10285.0
60°	*3687.9*	*3757.6*	*4207.0*	*4710.6*	*5733.3*	*6639.7*	*8181.5*	*10459.3*	*10715.0*	*9258.4*	*9545.1*
62.5°	2920.9	3006.1	3405.1	3637.5	4369.7	5485.3	7910.4	10734.4	10955.2	8747.1	8514.7
65°	2281.7	2339.8	2711.7	3044.8	3223.0	3746.0	6779.2	9390.2	9587.7	7914.2	7027.1
67.5°	1506.9	1596.0	2037.6	2494.7	2587.7	2382.4	4664.1	7224.7	7317.7	6291.1	5283.9
70°	1080.8	1123.4	1452.7	1940.8	2080.2	1596.0	2541.2	5469.8	5497.0	4222.5	3560.0
72.5°	736.0	743.8	987.8	1487.5	1658.0	1158.3	1398.5	3602.7	3509.7	2084.1	2037.6
75°	499.7	507.5	631.4	991.7	1173.8	805.8	910.3	1964.0	1886.6	1150.5	1235.8
77.5°	337.0	344.8	433.9	666.3	782.5	557.8	666.3	1038.2	1018.8	763.1	662.4
80°	255.7	267.3	321.5	426.1	546.2	325.4	379.6	492.0	499.7	406.8	337.0
82.5°	143.3	158.8	193.7	216.9	352.5	182.1	182.1	294.4	282.8	251.8	182.1
85°	62.0	65.9	77.5	81.4	143.3	77.5	65.9	127.8	131.7	124.0	58.1
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	15.5	15.5	15.5	15.5
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°	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9
2.5°	2742.7	2765.9	2742.7	2731.0	2731.0	2711.7	2703.9	2703.9	2676.8	2688.4	2680.7
5°	2804.6	2812.4	2785.3	2750.4	2703.9	2665.2	2611.0	2541.2	2498.6	2494.7	2498.6
7.5°	2901.5	2905.4	2831.8	2754.3	2638.1	2498.6	2332.0	2196.5	2076.4	2057.0	2080.2
10°	3037.1	3029.3	2920.9	2738.8	2494.7	2200.3	1944.7	1820.7	1751.0	1747.1	1743.2
12.5°	3219.1	3168.8	3002.2	2672.9	2246.8	1905.9	1774.2	1766.5	1785.8	1801.3	1805.2
15°	3428.3	3362.5	3068.1	2545.1	1995.0	1797.5	1805.2	1871.1	1894.3	1909.8	1909.8
17.5°	3687.9	3602.7	3141.7	2363.0	1867.2	1820.7	1874.9	1936.9	1975.7	1991.1	1987.3
20°	4032.7	3854.5	3199.8	2188.7	1832.3	1859.4	1905.9	1967.9	2006.6	2026.0	2026.0
22.5°	4377.4	4156.6	3211.4	2068.6	1832.3	1863.3	1905.9	1967.9	2010.5	2029.9	2026.0
25°	4846.2	4544.0	3215.3	1983.4	1836.2	1843.9	1882.7	1936.9	1998.9	2018.3	2026.0
27.5°	5345.9	4970.1	3234.6	1964.0	1820.7	1816.8	1843.9	1894.3	1956.3	2006.6	2010.5
30°	5965.7	5450.5	3242.4	1983.4	1824.6	1774.2	1793.6	1843.9	1909.8	1960.2	1975.7
32.5°	6573.9	5896.0	3226.9	2026.0	1832.3	1747.1	1751.0	1782.0	1851.7	1886.6	1913.7
35°	7216.9	6368.6	3199.8	2084.1	1836.2	1735.5	1700.6	1716.1	1762.6	1766.5	1778.1
37.5°	7720.5	6721.1	3118.4	2161.6	1843.9	1692.9	1623.1	1611.5	1592.1	1553.4	1561.2
40°	8135.0	6957.4	2982.8	2200.3	1824.6	1642.5	1526.3	1472.1	1398.5	1340.3	1352.0
42.5°	8433.3	7116.2	2820.1	2208.1	1793.6	1557.3	1413.9	1321.0	1239.6	1177.6	1181.5
45°	8565.0	7100.7	2645.8	2150.0	1720.0	1452.7	1309.4	1220.3	1131.2	1065.3	1057.6
47.5°	8568.9	6949.6	2405.6	2010.5	1596.0	1332.6	1212.5	1115.7	1042.1	995.6	991.7
50°	8599.9	6864.4	2181.0	1809.1	1433.3	1204.8	1127.3	1030.4	987.8	922.0	902.6
52.5°	8793.6	7003.9	2026.0	1588.3	1282.2	1111.8	1053.7	968.5	898.7	856.1	852.2
55°	9107.4	7244.1	1940.8	1421.7	1138.9	1022.7	984.0	910.3	848.4	805.8	794.1
57.5°	9146.1	7368.0	1840.1	1266.7	1022.7	953.0	937.5	856.1	767.0	736.0	724.4
60°	*8603.8*	*7158.8*	*1716.1*	*1123.4*	*937.5*	*898.7*	*891.0*	*782.5*	*708.9*	*670.2*	*654.7*
62.5°	7863.9	6635.9	1526.3	991.7	871.6	844.5	813.5	728.3	635.3	592.7	581.1
65°	6426.7	5578.3	1297.7	902.6	805.8	774.8	767.0	650.8	588.8	565.6	561.7
67.5°	4869.4	4482.0	1142.8	836.7	736.0	724.4	697.3	658.6	631.4	604.3	596.6
70°	3443.8	3234.6	972.3	751.5	666.3	646.9	759.3	716.7	619.8	584.9	581.1
72.5°	2088.0	2029.9	840.6	674.0	573.3	604.3	701.2	646.9	557.8	515.2	499.7
75°	1317.1	1204.8	705.0	573.3	457.1	492.0	612.1	577.2	480.4	437.7	426.1
77.5°	716.7	666.3	530.7	468.7	360.3	399.0	534.6	476.5	383.5	418.4	371.9
80°	313.8	348.6	352.5	271.2	240.2	294.4	383.5	371.9	294.4	298.3	247.9
82.5°	151.1	197.6	228.6	185.9	135.6	174.3	255.7	213.1	197.6	185.9	178.2
85°	46.5	73.6	100.7	89.1	62.0	73.6	120.1	116.2	139.5	120.1	112.3
87.5°	15.5	15.5	11.6	11.6	11.6	15.5	19.4	11.6	3.9	3.9	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°	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9
2.5°	2676.8	2680.7	2680.7	2684.6	2684.6	2696.2	2711.7	2727.2	2715.6	2731.0	2734.9
5°	2490.9	2510.2	2525.7	2583.8	2630.3	2669.1	2711.7	2750.4	2762.0	2769.8	2789.2
7.5°	2053.1	2107.4	2208.1	2339.8	2487.0	2630.3	2727.2	2827.9	2843.4	2862.8	2889.9
10°	1747.1	1770.3	1840.1	1975.7	2239.1	2521.9	2758.2	2917.0	2982.8	3021.6	3048.7
12.5°	1797.5	1782.0	1770.3	1789.7	1960.2	2324.3	2738.8	3044.8	3168.8	3211.4	3246.3
15°	1917.5	1902.0	1859.4	1805.2	1824.6	2115.1	2672.9	3164.9	3362.5	3432.2	3505.8
17.5°	1987.3	1971.8	1936.9	1878.8	1828.4	1940.8	2549.0	3273.4	3668.5	3753.7	3858.3
20°	2026.0	2010.5	1975.7	1917.5	1859.4	1874.9	2390.2	3409.0	4017.2	4152.7	4307.7
22.5°	2033.8	2014.4	1975.7	1917.5	1882.7	1871.1	2239.1	3490.3	4392.9	4602.1	4780.3
25°	2029.9	1995.0	1944.7	1902.0	1882.7	1878.8	2134.5	3536.8	4799.7	5132.8	5334.3
27.5°	2002.8	1960.2	1909.8	1878.8	1871.1	1894.3	2088.0	3591.0	5276.2	5702.3	6023.8
30°	1971.8	1909.8	1847.8	1836.2	1855.6	1929.2	2126.7	3610.4	5775.9	6322.1	6651.4
32.5°	1890.4	1843.9	1782.0	1778.1	1824.6	1956.3	2215.8	3583.3	6217.5	6941.9	7356.4
35°	1774.2	1747.1	1712.2	1723.9	1797.5	1979.5	2277.8	3498.1	6620.4	7519.1	8003.3
37.5°	1568.9	1588.3	1607.6	1634.8	1727.7	1975.7	2304.9	3362.5	6953.5	7980.1	8599.9
40°	1340.3	1406.2	1468.2	1537.9	1661.9	1944.7	2312.7	3195.9	7147.2	8328.7	9130.6
42.5°	1197.0	1259.0	1336.5	1437.2	1572.8	1874.9	2304.9	3010.0	7209.2	8568.9	9467.6
45°	1065.3	1138.9	1235.8	1340.3	1495.3	1774.2	2235.2	2808.5	7240.2	8681.2	9611.0
47.5°	995.6	1038.2	1127.3	1231.9	1394.6	1650.2	2099.6	2661.3	7193.7	8704.5	9785.3
50°	914.2	972.3	1030.4	1131.2	1290.0	1495.3	1936.9	2576.1	7271.2	8933.0	10060.3
52.5°	852.2	883.2	945.2	1038.2	1154.4	1352.0	1782.0	2506.4	7484.2	9165.5	10347.0
55°	805.8	840.6	879.4	956.8	1045.9	1208.6	1623.1	2401.8	7732.2	9413.4	10633.7
57.5°	732.2	755.4	809.6	891.0	949.1	1069.2	1437.2	2277.8	7712.8	9219.7	10137.8
60°	*666.3*	*689.5*	*747.6*	*829.0*	*863.9*	*945.2*	*1255.1*	*2119.0*	*7340.9*	*8588.3*	*9223.6*
62.5°	592.7	619.8	689.5	747.6	778.6	840.6	1065.3	1828.4	6566.1	7639.2	8154.4
65°	561.7	577.2	623.7	693.4	689.5	747.6	898.7	1437.2	5283.9	5837.9	6306.6
67.5°	596.6	619.8	612.1	631.4	619.8	650.8	805.8	1154.4	4152.7	4396.8	4668.0
70°	588.8	643.1	670.2	631.4	542.3	577.2	697.3	922.0	2971.2	2948.0	2936.4
72.5°	515.2	569.5	646.9	685.7	530.7	480.4	604.3	798.0	1905.9	1898.2	1716.1
75°	437.7	476.5	569.5	619.8	457.1	387.4	519.1	677.9	1138.9	1154.4	1030.4
77.5°	402.9	383.5	476.5	546.2	371.9	298.3	418.4	511.3	627.6	635.3	588.8
80°	290.5	278.9	356.4	399.0	282.8	213.1	236.3	317.7	337.0	302.2	313.8
82.5°	185.9	189.8	213.1	255.7	174.3	116.2	162.7	213.1	182.1	147.2	174.3
85°	120.1	135.6	112.3	131.7	54.2	54.2	69.7	93.0	62.0	42.6	46.5
87.5°	0.0	0.0	7.7	15.5	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: P1501524
CATALOG NUMBER: GSS-SB2D-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9
2.5°	2746.5	2742.7	2742.7	2750.4	2769.8	2777.5	2789.2	2785.3	2796.9	2789.2
5°	2800.8	2804.6	2816.3	2820.1	2831.8	2847.3	2851.1	2847.3	2855.0	2855.0
7.5°	2909.2	2924.7	2917.0	2936.4	2920.9	2901.5	2870.5	2847.3	2827.9	2835.6
10°	3091.3	3083.6	3079.7	3044.8	2975.1	2874.4	2793.0	2703.9	2688.4	2672.9
12.5°	3292.8	3285.0	3285.0	3164.9	2967.4	2758.2	2572.2	2432.8	2386.3	2382.4
15°	3575.5	3525.2	3478.7	3226.9	2831.8	2475.4	2258.4	2150.0	2122.9	2122.9
17.5°	3928.1	3796.3	3718.9	3180.4	2611.0	2289.4	2161.6	2134.5	2126.7	2146.1
20°	4365.8	4032.7	3920.3	3075.8	2529.6	2312.7	2250.7	2254.6	2258.4	2285.6
22.5°	4846.2	4249.6	4063.6	3075.8	2611.0	2459.9	2428.9	2471.5	2483.1	2506.4
25°	5380.7	4443.3	4191.5	3238.5	2851.1	2738.8	2700.1	2742.7	2773.7	2812.4
27.5°	5981.2	4644.7	4412.3	3532.9	3161.0	3091.3	3048.7	3068.1	3110.7	3157.2
30°	6519.6	4981.7	4749.3	3982.3	3583.3	3498.1	3424.5	3455.5	3501.9	3532.9
32.5°	6996.1	5392.4	5194.8	4454.9	4067.5	3920.3	3839.0	3831.2	3924.2	3900.9
35°	7433.9	5876.6	5686.8	4993.4	4559.5	4377.4	4269.0	4408.4	4346.4	4369.7
37.5°	7778.6	6380.2	6229.1	5508.6	5070.8	4822.9	4757.1	4927.5	5024.4	5051.5
40°	8061.4	6817.9	6659.1	6019.9	5539.6	5357.5	5462.1	5744.9	5733.3	5721.6
42.5°	8278.4	7193.7	7019.4	6407.3	5988.9	6023.8	6105.1	6295.0	6341.5	6275.6
45°	8375.2	7430.0	7290.5	6713.3	6500.3	6701.7	6736.6	6817.9	6786.9	6744.3
47.5°	8487.6	7639.2	7492.0	6992.3	7054.2	7251.8	7182.1	7116.2	7003.9	6938.0
50°	8677.4	7887.1	7763.1	7399.0	7623.7	7557.8	7286.7	7139.5	6910.9	6833.4
52.5°	9037.6	8355.8	8262.9	8042.1	7891.0	7511.3	7182.1	6918.7	6663.0	6558.4
55°	9359.2	8991.1	8936.9	8642.5	7809.6	7267.3	6825.7	6418.9	5981.2	5892.1
57.5°	9545.1	10044.8	10106.8	8898.2	7437.7	6713.3	6062.5	5411.7	4997.2	4923.6
60°	8991.1	11183.7	11214.7	8847.8	6767.6	5713.9	4722.2	4261.2	3815.7	3687.9
62.5°	8228.0	10947.4	10920.3	8545.7	5388.5	4168.2	3587.2	3370.2	3025.5	2920.9
65°	7073.6	9119.0	9150.0	7383.5	3583.3	3013.8	3013.8	2738.8	2355.3	2281.7
67.5°	5764.3	7031.0	6961.3	4788.0	2200.3	2413.4	2529.6	2134.5	1596.0	1506.9
70°	3746.0	5369.1	5272.3	2762.0	1383.0	2010.5	1991.1	1603.8	1142.8	1080.8
72.5°	1611.5	3102.9	3300.5	1410.1	1042.1	1619.3	1588.3	1123.4	763.1	736.0
75°	972.3	1561.2	1700.6	898.7	759.3	1220.3	1100.2	712.8	519.1	499.7
77.5°	615.9	856.1	848.4	674.0	569.5	825.1	739.9	492.0	352.5	337.0
80°	356.4	422.2	437.7	422.2	383.5	588.8	472.6	356.4	275.0	255.7
82.5°	228.6	263.4	267.3	205.3	213.1	379.6	255.7	209.2	158.8	143.3
85°	100.7	112.3	108.5	69.7	69.7	155.0	89.1	85.2	62.0	62.0
87.5°	3.9	7.7	3.9	3.9	3.9	15.5	7.7	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

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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

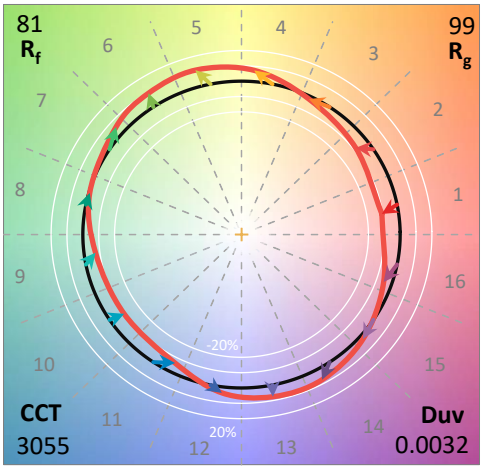
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

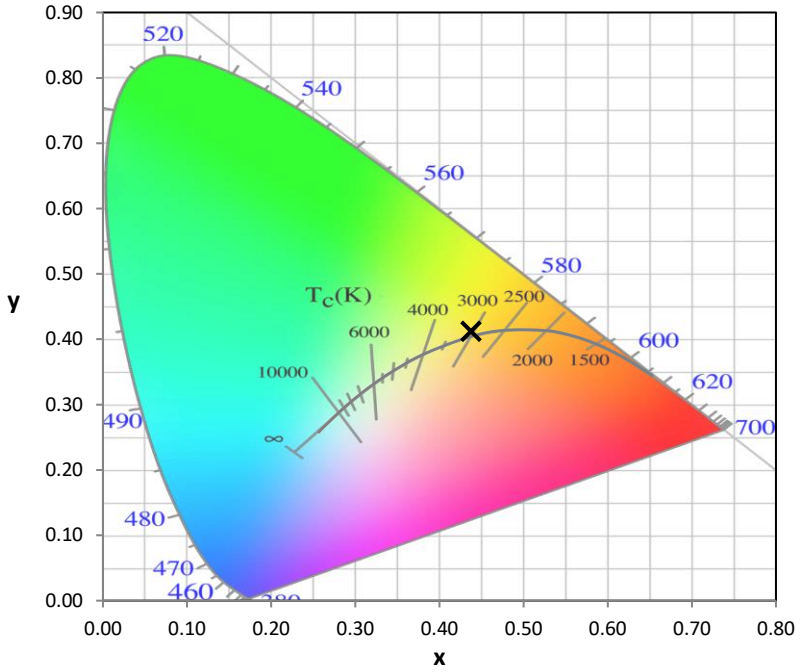
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

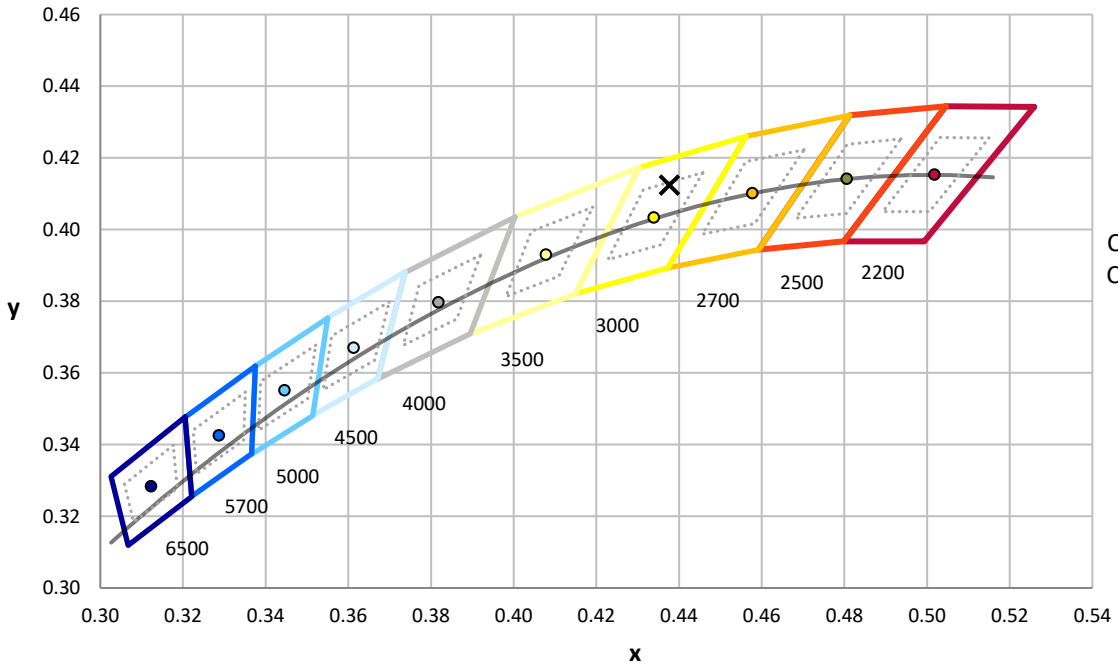
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

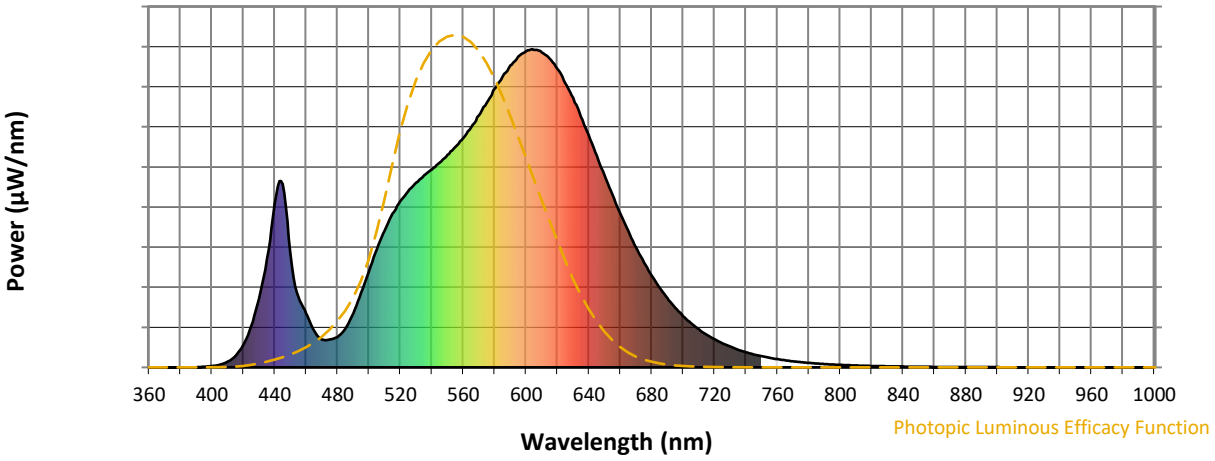


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

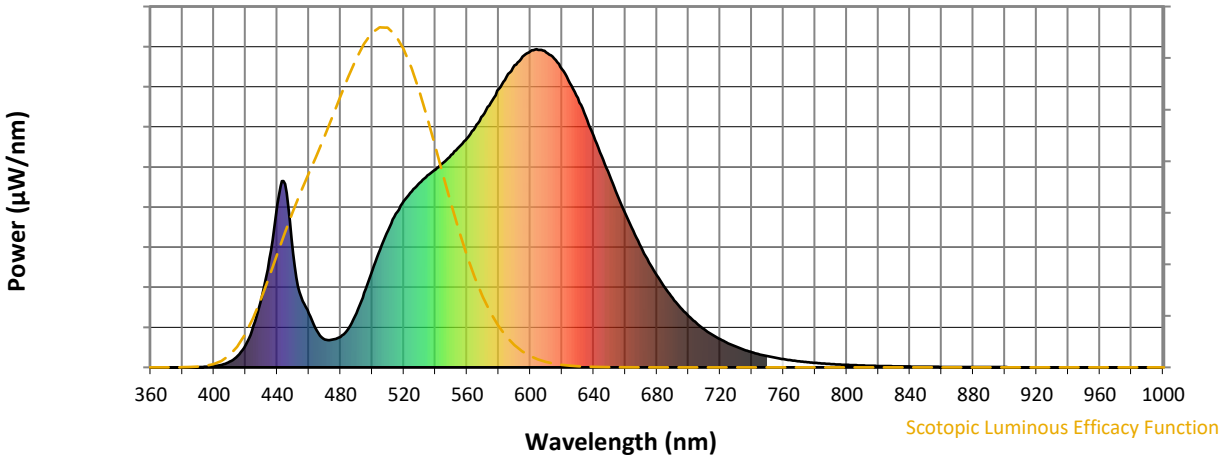


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

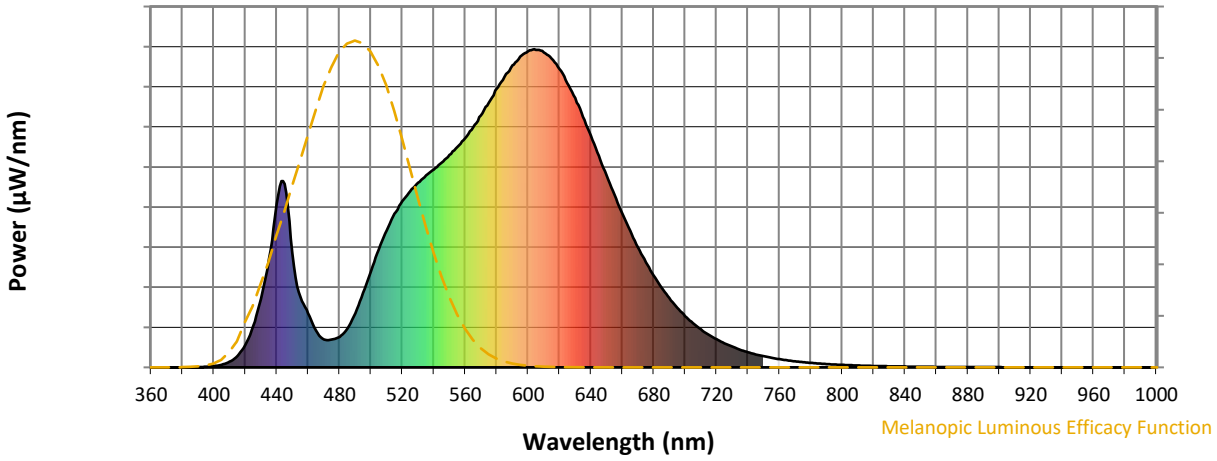


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

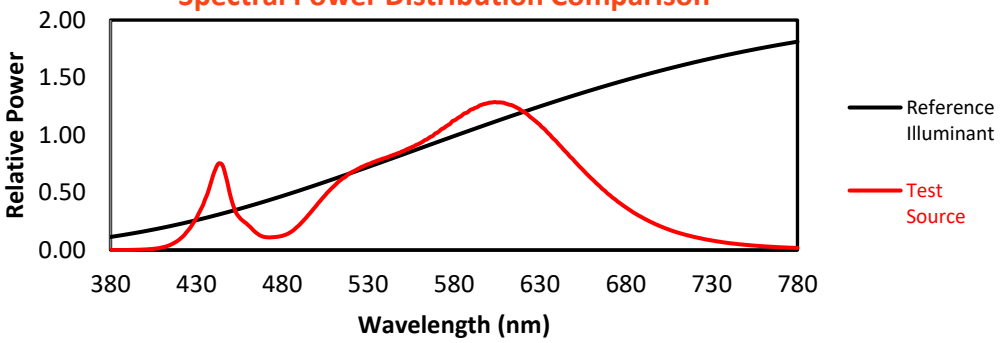
REPORT NUMBER: SP1-2407-184-9

TM-30-18

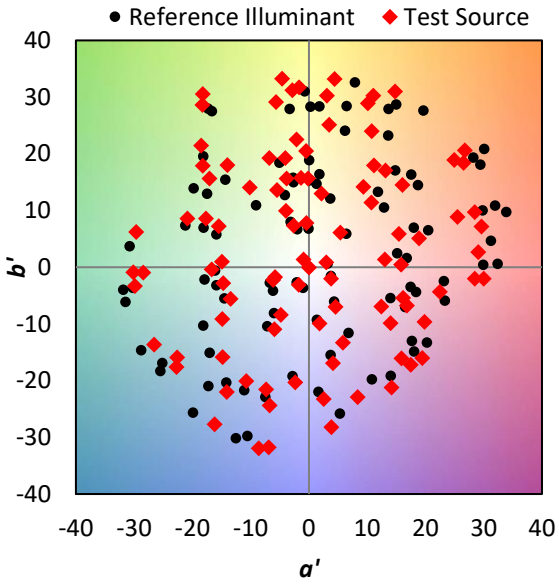
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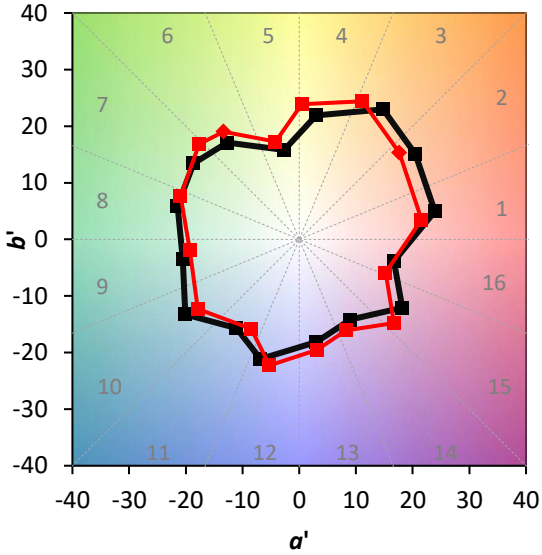
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

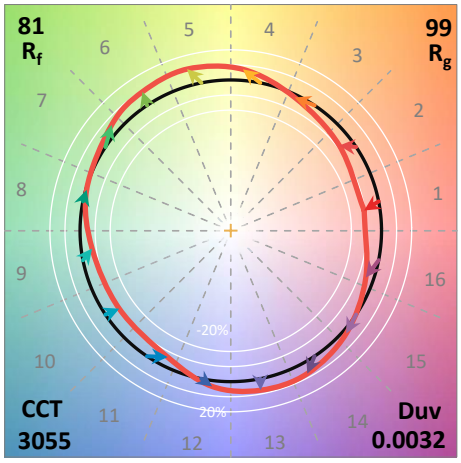
Spectral Power Distribution Comparison

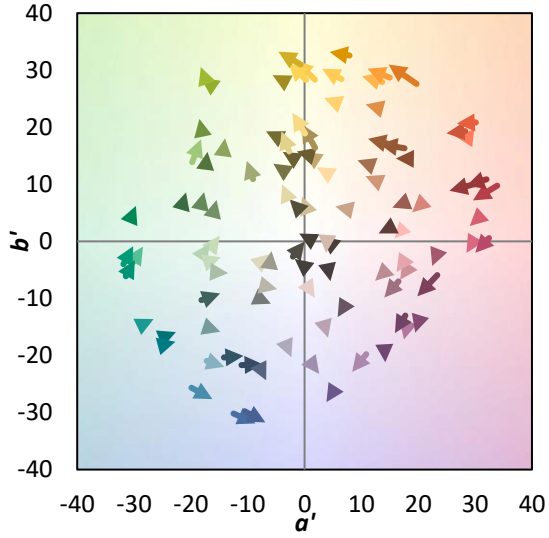


Color Vector Graphics







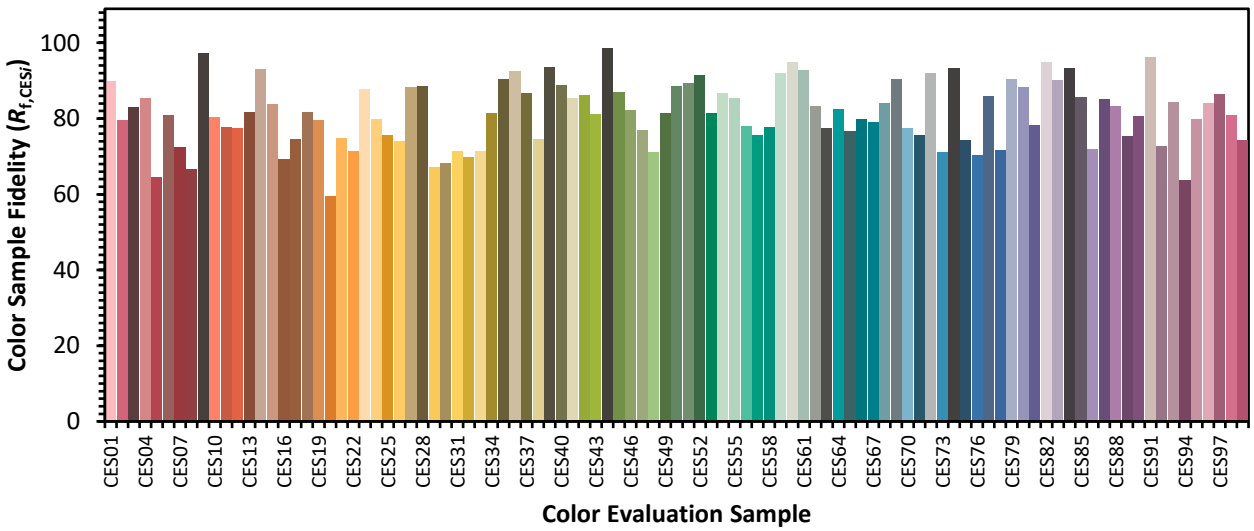


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Individual Sample Fidelity Index ($R_{f,i}$)

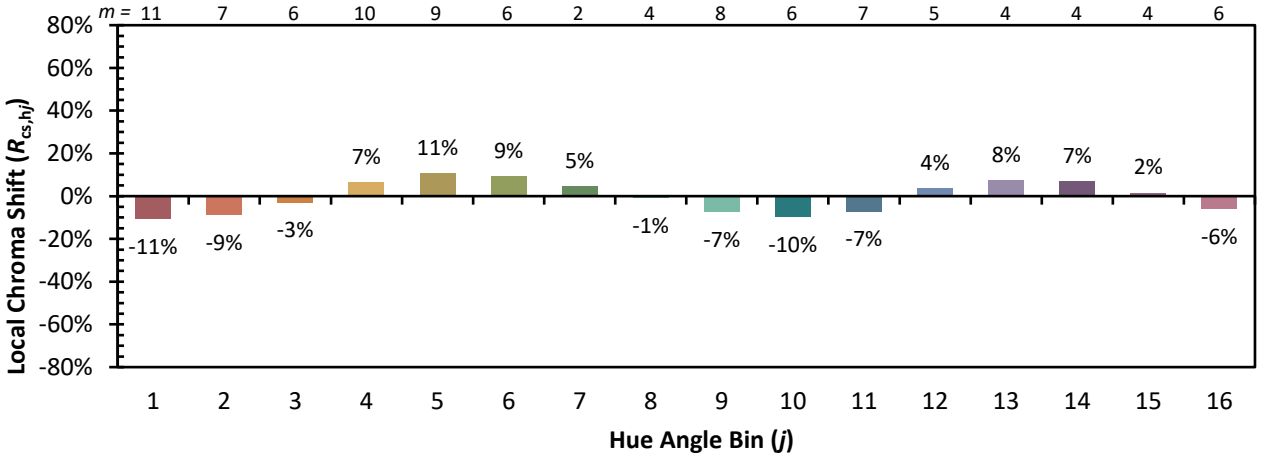
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

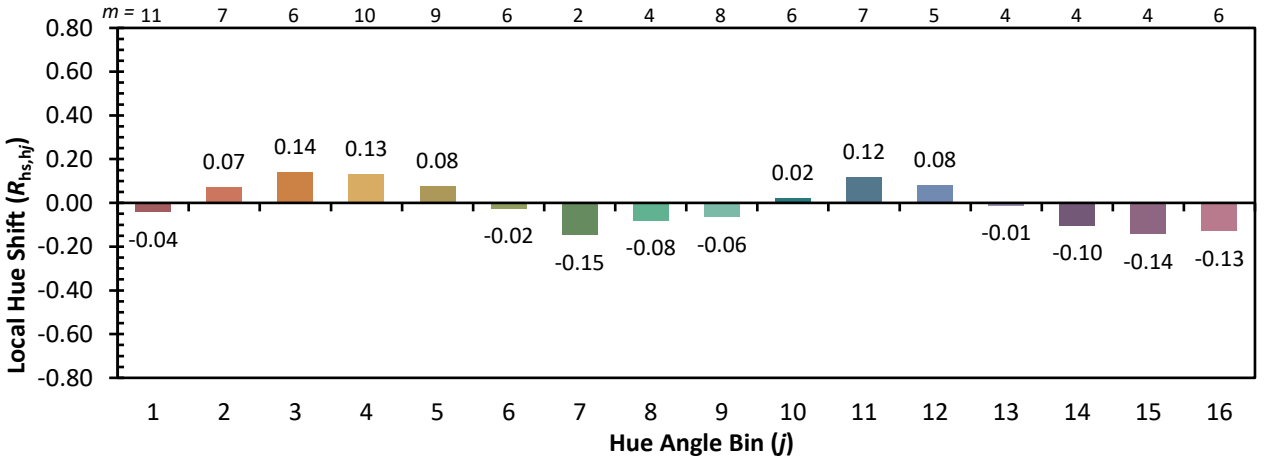


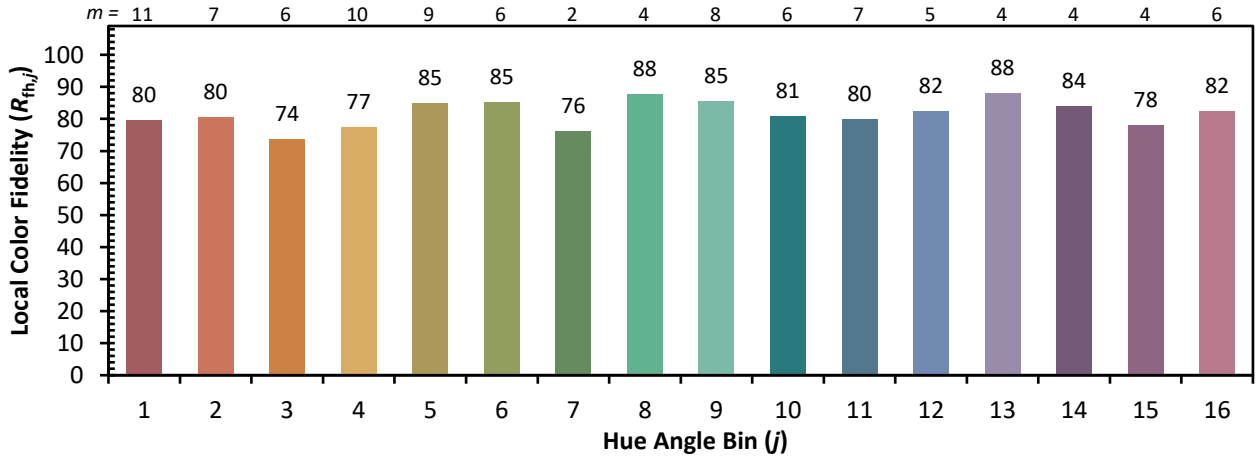
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Color Rendition by Hue-Angle Bin



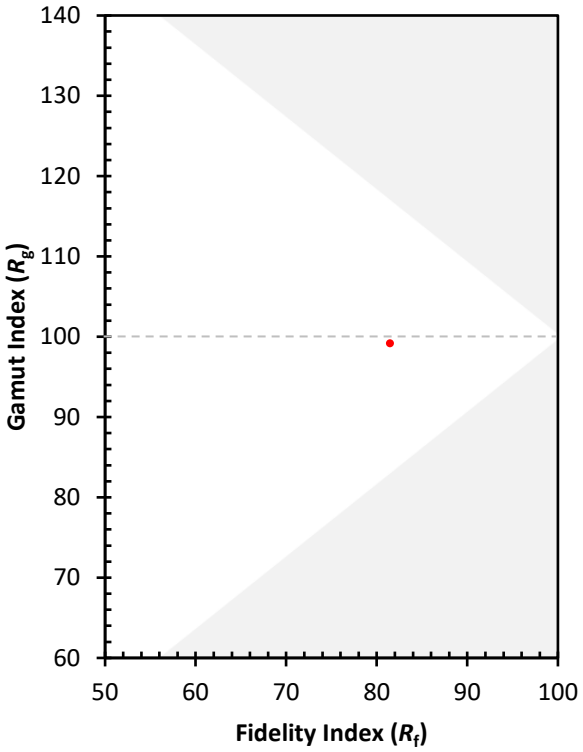


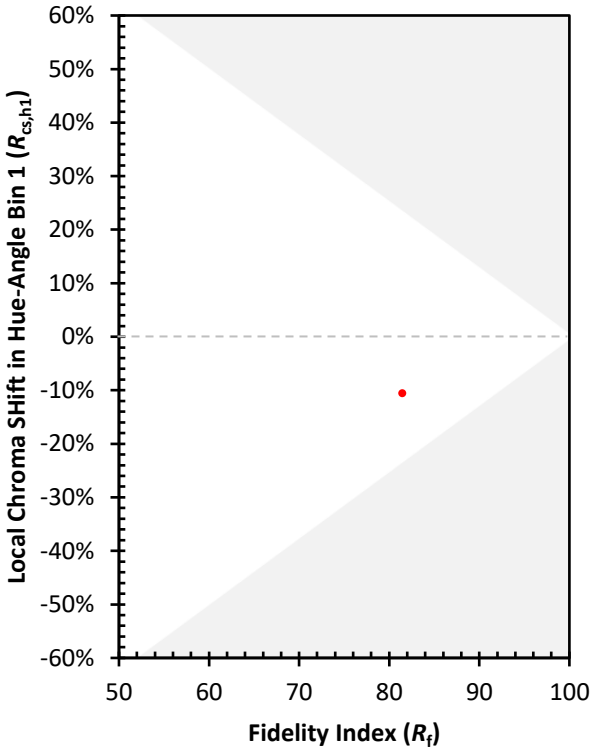


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Measure Comparisons





(END OF REPORT)