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: P1501574

Luminaire Tested: GSS-SB3B-840-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:	P1501574
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3B-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 109W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15042.2 lumens
Efficiency:	N/A
Efficacy:	138.0 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

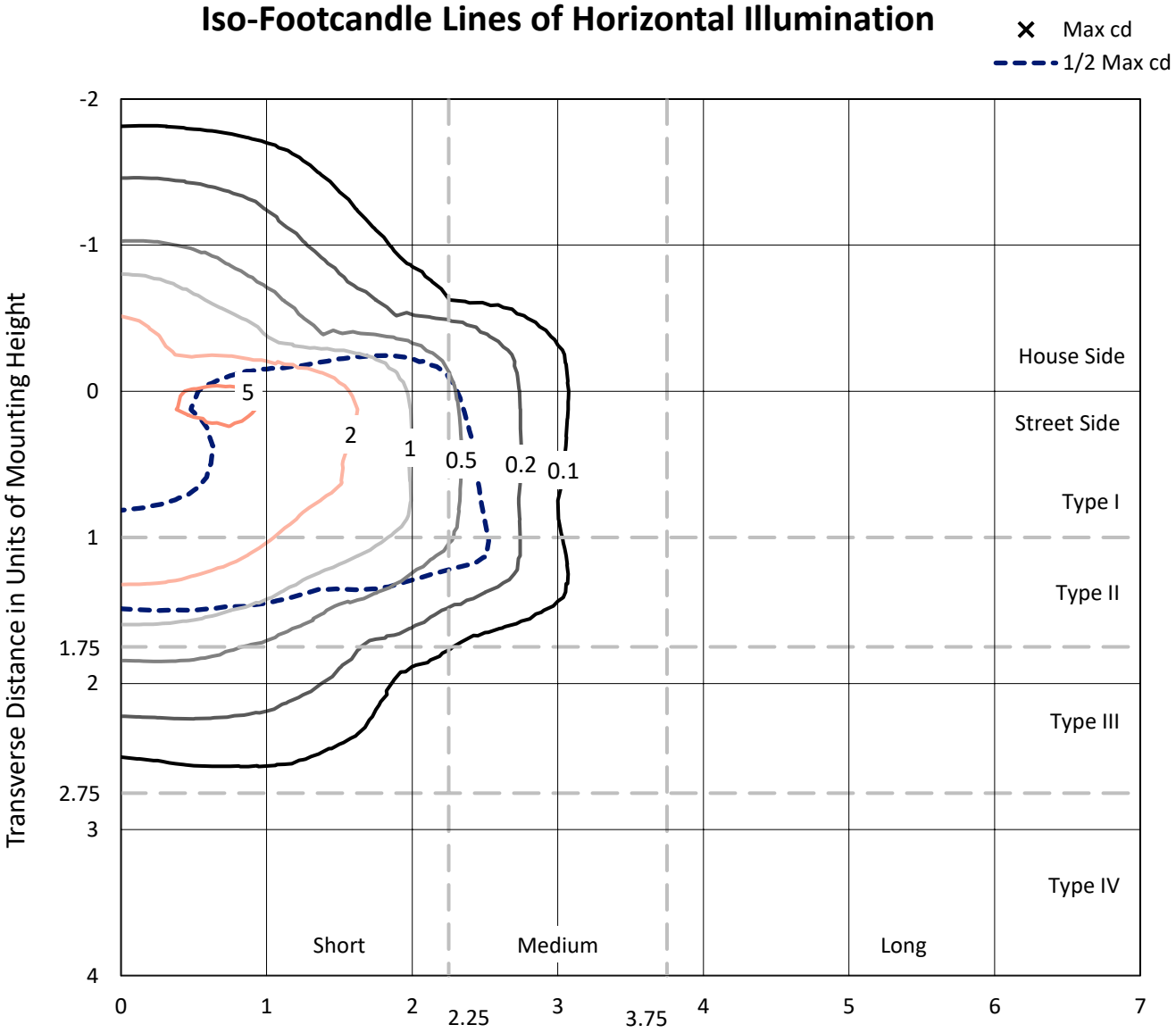
Input Watts (W):	109
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



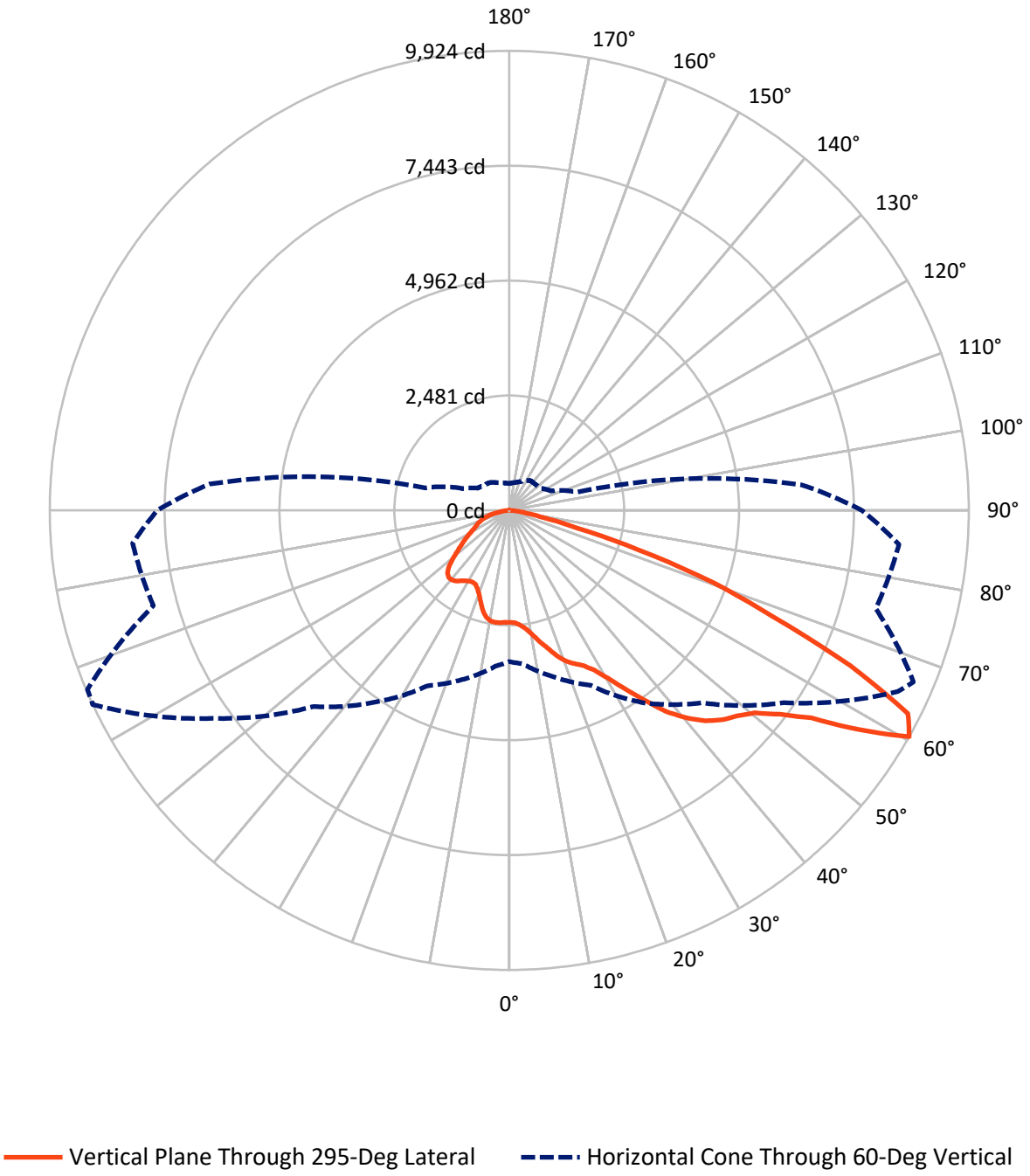
Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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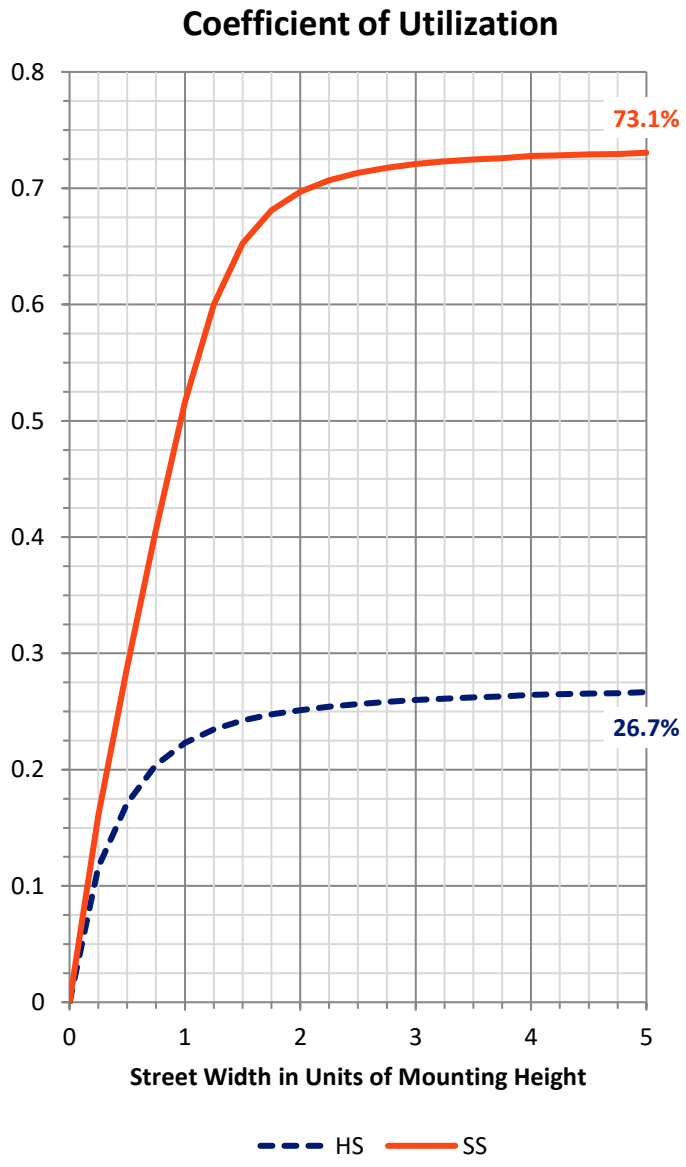
REPORT NUMBER: P1501574
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4045.0	0.0	4045.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10997.2	0.0	10997.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	15042.2	0.0	15042.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.5
10°-20°	654.2	4.3
20°-30°	1239.1	8.2
30°-40°	2184.4	14.5
40°-50°	3230.5	21.5
50°-60°	3793.5	25.2
60°-70°	2748.6	18.3
70°-80°	847.6	5.6
80°-90°	116.7	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°	15042.2	100.0
0°-180°	15042.2	100.0



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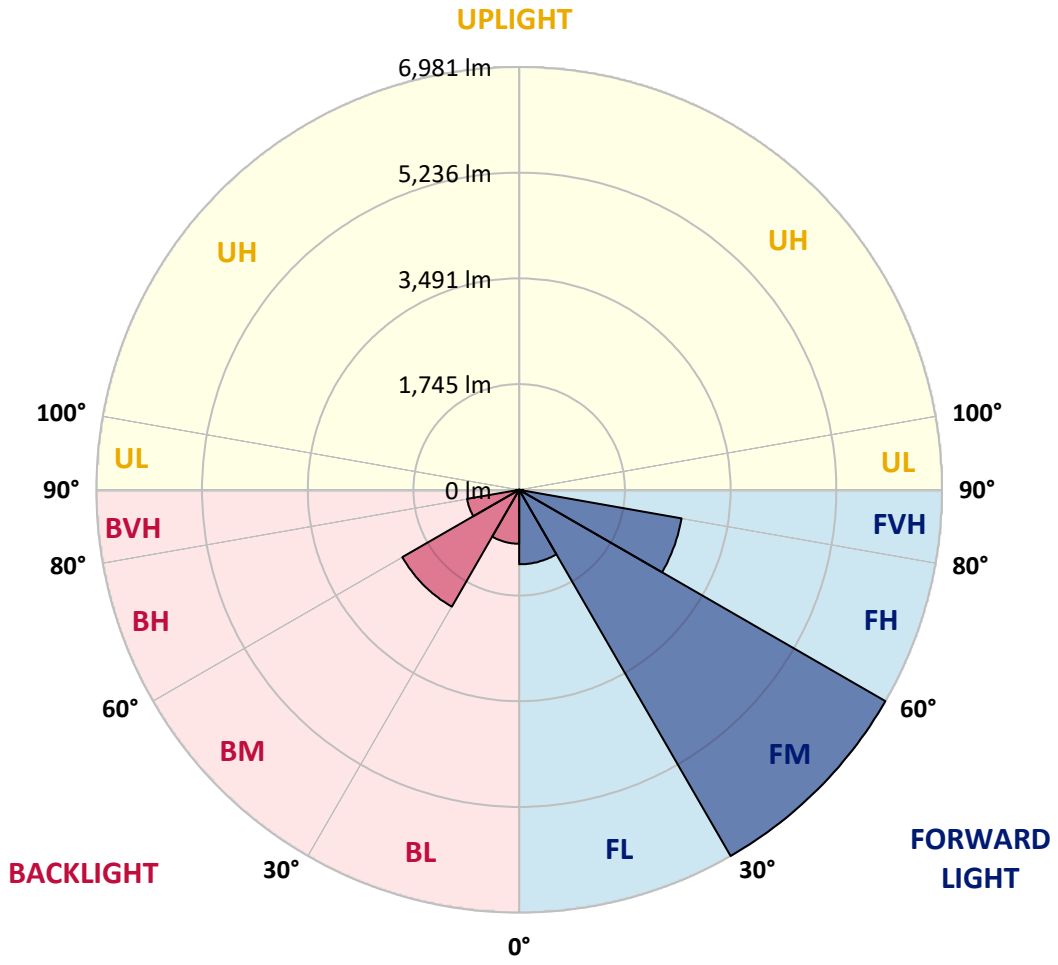
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1229.9	8.2			
FM	(30°-60°)	6981.2	46.4			
FH	(60°-80°)	2723.1	18.1			G2/5000
FVH	(80°-90°)	62.9	0.4			G1/100
BL	(0°-30°)	890.9	5.9	B2/1000		
BM	(30°-60°)	2227.3	14.8	B2/2500		
BH	(60°-80°)	873.1	5.8	B2/1000		G2/1000
BVH	(80°-90°)	53.7	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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2468.2	2475.1	2464.8	2471.6	2471.6	2461.4	2457.9	2444.2	2451.1	2447.6	2444.2
5°	2526.5	2529.9	2523.1	2533.3	2533.3	2536.8	2533.3	2516.2	2516.2	2516.2	2509.3
7.5°	2509.3	2509.3	2512.8	2547.1	2581.3	2625.9	2625.9	2619.0	2625.9	2622.5	2591.6
10°	2365.4	2379.1	2409.9	2495.6	2577.9	2673.9	2739.0	2759.6	2759.6	2763.0	2711.6
12.5°	2108.3	2118.5	2190.5	2320.8	2492.2	2667.0	2824.7	2927.6	2937.9	2955.0	2886.4
15°	1878.6	1885.4	1936.9	2070.6	2266.0	2574.5	2872.7	3085.3	3119.5	3191.5	3088.7
17.5°	1899.2	1895.7	1909.4	1960.9	2101.4	2423.6	2862.4	3270.4	3332.1	3458.9	3369.8
20°	2022.6	2022.6	2032.8	2043.1	2094.6	2313.9	2787.0	3421.2	3541.2	3788.0	3685.2
22.5°	2218.0	2218.0	2214.5	2231.7	2231.7	2361.9	2790.4	3534.3	3712.6	4154.8	4055.4
25°	2488.8	2475.1	2475.1	2481.9	2451.1	2543.6	2876.1	3650.9	3884.0	4590.2	4504.5
27.5°	2793.9	2804.2	2797.3	2773.3	2732.2	2804.2	3081.8	3832.6	4076.0	5049.5	5015.3
30°	3126.4	3129.8	3136.7	3123.0	3088.7	3140.1	3404.1	4106.8	4329.7	5529.5	5604.9
32.5°	3452.1	3500.1	3482.9	3448.6	3462.3	3554.9	3801.7	4477.1	4706.7	5975.1	6242.5
35°	3866.9	3884.0	3952.6	3825.7	3829.2	3986.8	4309.1	4963.8	5186.7	6437.9	6880.1
37.5°	4470.2	4501.1	4470.2	4271.4	4240.5	4459.9	4802.7	5443.8	5604.9	6787.6	7473.2
40°	5063.3	5101.0	5152.4	4919.3	4723.9	4905.6	5268.9	5810.6	5978.6	6979.5	7867.4
42.5°	5553.5	5615.2	5560.3	5491.8	5313.5	5347.8	5594.6	6095.1	6263.1	7222.9	8265.1
45°	5968.3	5978.6	6002.5	5954.6	5865.4	5834.6	5872.3	6345.4	6530.5	7332.6	8460.5
47.5°	6139.7	6184.2	6204.8	6287.1	6379.6	6317.9	6108.8	6461.9	6629.9	7325.8	8522.2
50°	6047.1	6091.7	6201.4	6396.8	6619.6	6729.3	6386.5	6623.0	6811.6	7449.2	8649.0
52.5°	5803.7	5851.7	6030.0	6252.8	6626.5	6876.7	6777.3	6959.0	7140.7	7668.6	8861.6
55°	5214.1	5286.1	5536.3	5906.6	6420.8	6797.9	7188.7	7452.6	7651.4	7932.6	9081.0
57.5°	4357.1	4432.5	4713.6	5268.9	6040.3	6472.2	7308.6	8378.2	8467.3	8247.9	9101.5
60°	*3263.5*	*3325.2*	*3722.9*	*4168.5*	*5073.5*	*5875.7*	*7240.1*	*9255.8*	*9482.0*	*8193.1*	*8446.8*
62.5°	2584.8	2660.2	3013.3	3219.0	3866.9	4854.1	7000.1	9499.2	9694.6	7740.6	7534.9
65°	2019.1	2070.6	2399.6	2694.5	2852.2	3314.9	5999.1	8309.6	8484.5	7003.5	6218.5
67.5°	1333.5	1412.4	1803.2	2207.7	2289.9	2108.3	4127.4	6393.3	6475.6	5567.2	4675.9
70°	956.4	994.1	1285.5	1717.5	1840.9	1412.4	2248.8	4840.4	4864.4	3736.6	3150.4
72.5°	651.3	658.2	874.2	1316.4	1467.2	1025.0	1237.5	3188.1	3105.8	1844.3	1803.2
75°	442.2	449.1	558.8	877.6	1038.7	713.0	805.6	1738.0	1669.5	1018.1	1093.6
77.5°	298.2	305.1	383.9	589.6	692.5	493.6	589.6	918.7	901.6	675.3	586.2
80°	226.3	236.5	284.5	377.1	483.4	288.0	336.0	435.4	442.2	359.9	298.2
82.5°	126.8	140.6	171.4	192.0	312.0	161.1	161.1	260.5	250.2	222.8	161.1
85°	54.8	58.3	68.6	72.0	126.8	68.6	58.3	113.1	116.6	109.7	51.4
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	13.7	13.7	13.7
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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2427.1	2447.6	2427.1	2416.8	2416.8	2399.6	2392.8	2392.8	2368.8	2379.1	2372.2
5°	2481.9	2488.8	2464.8	2433.9	2392.8	2358.5	2310.5	2248.8	2211.1	2207.7	2211.1
7.5°	2567.6	2571.1	2505.9	2437.4	2334.5	2211.1	2063.7	1943.7	1837.4	1820.3	1840.9
10°	2687.6	2680.7	2584.8	2423.6	2207.7	1947.1	1720.9	1611.2	1549.5	1546.1	1542.6
12.5°	2848.7	2804.2	2656.8	2365.4	1988.3	1686.6	1570.1	1563.2	1580.3	1594.1	1597.5
15°	3033.8	2975.6	2715.0	2252.2	1765.5	1590.6	1597.5	1655.8	1676.3	1690.0	1690.0
17.5°	3263.5	3188.1	2780.2	2091.1	1652.3	1611.2	1659.2	1714.0	1748.3	1762.0	1758.6
20°	3568.6	3410.9	2831.6	1936.9	1621.5	1645.5	1686.6	1741.5	1775.7	1792.9	1792.9
22.5°	3873.7	3678.3	2841.9	1830.6	1621.5	1648.9	1686.6	1741.5	1779.2	1796.3	1792.9
25°	4288.5	4021.1	2845.3	1755.2	1624.9	1631.8	1666.0	1714.0	1768.9	1786.0	1792.9
27.5°	4730.7	4398.2	2862.4	1738.0	1611.2	1607.8	1631.8	1676.3	1731.2	1775.7	1779.2
30°	5279.2	4823.3	2869.3	1755.2	1614.6	1570.1	1587.2	1631.8	1690.0	1734.6	1748.3
32.5°	5817.4	5217.5	2855.6	1792.9	1621.5	1546.1	1549.5	1576.9	1638.6	1669.5	1693.5
35°	6386.5	5635.7	2831.6	1844.3	1624.9	1535.8	1504.9	1518.6	1559.8	1563.2	1573.5
37.5°	6832.1	5947.7	2759.6	1912.9	1631.8	1498.1	1436.4	1426.1	1408.9	1374.7	1381.5
40°	7198.9	6156.8	2639.6	1947.1	1614.6	1453.5	1350.7	1302.7	1237.5	1186.1	1196.4
42.5°	7462.9	6297.4	2495.6	1954.0	1587.2	1378.1	1251.2	1169.0	1097.0	1042.1	1045.6
45°	7579.5	6283.7	2341.4	1902.6	1522.1	1285.5	1158.7	1079.8	1001.0	942.7	935.9
47.5°	7582.9	6150.0	2128.8	1779.2	1412.4	1179.3	1073.0	987.3	922.2	881.0	877.6
50°	7610.3	6074.5	1930.0	1600.9	1268.4	1066.1	997.6	911.9	874.2	815.9	798.7
52.5°	7781.7	6197.9	1792.9	1405.5	1134.7	983.9	932.4	857.0	795.3	757.6	754.2
55°	8059.4	6410.5	1717.5	1258.1	1007.9	905.0	870.7	805.6	750.7	713.0	702.8
57.5°	8093.7	6520.2	1628.3	1121.0	905.0	843.3	829.6	757.6	678.8	651.3	641.0
60°	*7613.7*	*6335.1*	*1518.6*	*994.1*	*829.6*	*795.3*	*788.5*	*692.5*	*627.3*	*593.1*	*579.3*
62.5°	6959.0	5872.3	1350.7	877.6	771.3	747.3	719.9	644.5	562.2	524.5	514.2
65°	5687.2	4936.4	1148.4	798.7	713.0	685.6	678.8	575.9	521.1	500.5	497.1
67.5°	4309.1	3966.3	1011.3	740.5	651.3	641.0	617.1	582.8	558.8	534.8	527.9
70°	3047.6	2862.4	860.4	665.0	589.6	572.5	671.9	634.2	548.5	517.6	514.2
72.5°	1847.7	1796.3	743.9	596.5	507.4	534.8	620.5	572.5	493.6	455.9	442.2
75°	1165.5	1066.1	623.9	507.4	404.5	435.4	541.6	510.8	425.1	387.4	377.1
77.5°	634.2	589.6	469.6	414.8	318.8	353.1	473.1	421.7	339.4	370.2	329.1
80°	277.7	308.5	312.0	240.0	212.5	260.5	339.4	329.1	260.5	264.0	219.4
82.5°	133.7	174.8	202.3	164.5	120.0	154.3	226.3	188.5	174.8	164.5	157.7
85°	41.1	65.1	89.1	78.8	54.8	65.1	106.3	102.8	123.4	106.3	99.4
87.5°	13.7	13.7	10.3	10.3	10.3	13.7	17.1	10.3	3.4	3.4	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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2368.8	2372.2	2372.2	2375.7	2375.7	2385.9	2399.6	2413.4	2403.1	2416.8	2420.2
5°	2204.2	2221.4	2235.1	2286.5	2327.7	2361.9	2399.6	2433.9	2444.2	2451.1	2468.2
7.5°	1816.9	1864.9	1954.0	2070.6	2200.8	2327.7	2413.4	2502.5	2516.2	2533.3	2557.3
10°	1546.1	1566.6	1628.3	1748.3	1981.4	2231.7	2440.8	2581.3	2639.6	2673.9	2697.9
12.5°	1590.6	1576.9	1566.6	1583.8	1734.6	2056.8	2423.6	2694.5	2804.2	2841.9	2872.7
15°	1696.9	1683.2	1645.5	1597.5	1614.6	1871.7	2365.4	2800.7	2975.6	3037.3	3102.4
17.5°	1758.6	1744.9	1714.0	1662.6	1618.0	1717.5	2255.7	2896.7	3246.4	3321.8	3414.4
20°	1792.9	1779.2	1748.3	1696.9	1645.5	1659.2	2115.1	3016.7	3554.9	3674.9	3812.0
22.5°	1799.7	1782.6	1748.3	1696.9	1666.0	1655.8	1981.4	3088.7	3887.4	4072.5	4230.2
25°	1796.3	1765.5	1720.9	1683.2	1666.0	1662.6	1888.9	3129.8	4247.4	4542.2	4720.5
27.5°	1772.3	1734.6	1690.0	1662.6	1655.8	1676.3	1847.7	3177.8	4669.0	5046.1	5330.6
30°	1744.9	1690.0	1635.2	1624.9	1642.0	1707.2	1882.0	3195.0	5111.3	5594.6	5886.0
32.5°	1672.9	1631.8	1576.9	1573.5	1614.6	1731.2	1960.9	3171.0	5502.1	6143.1	6509.9
35°	1570.1	1546.1	1515.2	1525.5	1590.6	1751.7	2015.7	3095.5	5858.6	6653.9	7082.4
37.5°	1388.4	1405.5	1422.6	1446.6	1528.9	1748.3	2039.7	2975.6	6153.4	7061.8	7610.3
40°	1186.1	1244.4	1299.2	1360.9	1470.6	1720.9	2046.6	2828.2	6324.8	7370.3	8080.0
42.5°	1059.3	1114.1	1182.7	1271.8	1391.8	1659.2	2039.7	2663.6	6379.6	7582.9	8378.2
45°	942.7	1007.9	1093.6	1186.1	1323.2	1570.1	1978.0	2485.3	6407.1	7682.3	8505.0
47.5°	881.0	918.7	997.6	1090.1	1234.1	1460.4	1858.0	2355.1	6365.9	7702.9	8659.3
50°	809.0	860.4	911.9	1001.0	1141.5	1323.2	1714.0	2279.7	6434.5	7905.1	8902.7
52.5°	754.2	781.6	836.4	918.7	1021.6	1196.4	1576.9	2218.0	6623.0	8110.8	9156.4
55°	713.0	743.9	778.2	846.7	925.6	1069.6	1436.4	2125.4	6842.4	8330.2	9410.0
57.5°	647.9	668.5	716.5	788.5	839.9	946.1	1271.8	2015.7	6825.3	8158.8	8971.3
60°	*589.6*	*610.2*	*661.6*	*733.6*	*764.5*	*836.4*	*1110.7*	*1875.2*	*6496.2*	*7600.0*	*8162.2*
62.5°	524.5	548.5	610.2	661.6	689.0	743.9	942.7	1618.0	5810.6	6760.2	7216.1
65°	497.1	510.8	551.9	613.6	610.2	661.6	795.3	1271.8	4675.9	5166.1	5580.9
67.5°	527.9	548.5	541.6	558.8	548.5	575.9	713.0	1021.6	3674.9	3890.9	4130.8
70°	521.1	569.1	593.1	558.8	479.9	510.8	617.1	815.9	2629.3	2608.8	2598.5
72.5°	455.9	503.9	572.5	606.8	469.6	425.1	534.8	706.2	1686.6	1679.8	1518.6
75°	387.4	421.7	503.9	548.5	404.5	342.8	459.4	599.9	1007.9	1021.6	911.9
77.5°	356.5	339.4	421.7	483.4	329.1	264.0	370.2	452.5	555.3	562.2	521.1
80°	257.1	246.8	315.4	353.1	250.2	188.5	209.1	281.1	298.2	267.4	277.7
82.5°	164.5	168.0	188.5	226.3	154.3	102.8	144.0	188.5	161.1	130.3	154.3
85°	106.3	120.0	99.4	116.6	48.0	48.0	61.7	82.3	54.8	37.7	41.1
87.5°	0.0	0.0	6.9	13.7	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: P1501574
CATALOG NUMBER: GSS-SB3B-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2430.5	2427.1	2427.1	2433.9	2451.1	2457.9	2468.2	2464.8	2475.1	2468.2
5°	2478.5	2481.9	2492.2	2495.6	2505.9	2519.6	2523.1	2519.6	2526.5	2526.5
7.5°	2574.5	2588.2	2581.3	2598.5	2584.8	2567.6	2540.2	2519.6	2502.5	2509.3
10°	2735.6	2728.7	2725.3	2694.5	2632.8	2543.6	2471.6	2392.8	2379.1	2365.4
12.5°	2913.9	2907.0	2907.0	2800.7	2625.9	2440.8	2276.2	2152.8	2111.7	2108.3
15°	3164.1	3119.5	3078.4	2855.6	2505.9	2190.5	1998.6	1902.6	1878.6	1878.6
17.5°	3476.1	3359.5	3290.9	2814.4	2310.5	2026.0	1912.9	1888.9	1882.0	1899.2
20°	3863.4	3568.6	3469.2	2721.9	2238.5	2046.6	1991.7	1995.1	1998.6	2022.6
22.5°	4288.5	3760.6	3596.0	2721.9	2310.5	2176.8	2149.4	2187.1	2197.4	2218.0
25°	4761.6	3932.0	3709.2	2865.9	2523.1	2423.6	2389.4	2427.1	2454.5	2488.8
27.5°	5292.9	4110.3	3904.6	3126.4	2797.3	2735.6	2697.9	2715.0	2752.7	2793.9
30°	5769.4	4408.5	4202.8	3524.1	3171.0	3095.5	3030.4	3057.8	3099.0	3126.4
32.5°	6191.1	4771.9	4597.0	3942.3	3599.5	3469.2	3397.2	3390.4	3472.6	3452.1
35°	6578.5	5200.4	5032.4	4418.8	4034.8	3873.7	3777.7	3901.1	3846.3	3866.9
37.5°	6883.6	5646.0	5512.3	4874.7	4487.3	4267.9	4209.7	4360.5	4446.2	4470.2
40°	7133.8	6033.4	5892.9	5327.2	4902.1	4741.0	4833.6	5083.8	5073.5	5063.3
42.5°	7325.8	6365.9	6211.7	5670.0	5299.8	5330.6	5402.6	5570.6	5611.7	5553.5
45°	7411.5	6575.0	6451.6	5940.8	5752.3	5930.6	5961.4	6033.4	6006.0	5968.3
47.5°	7510.9	6760.2	6629.9	6187.7	6242.5	6417.3	6355.6	6297.4	6197.9	6139.7
50°	7678.9	6979.5	6869.8	6547.6	6746.4	6688.2	6448.2	6317.9	6115.7	6047.1
52.5°	7997.7	7394.3	7312.1	7116.7	6983.0	6647.0	6355.6	6122.5	5896.3	5803.7
55°	8282.2	7956.5	7908.6	7648.0	6911.0	6431.1	6040.3	5680.3	5292.9	5214.1
57.5°	8446.8	8889.0	8943.8	7874.3	6581.9	5940.8	5364.9	4789.0	4422.2	4357.1
60°	7956.5	9896.8	9924.3	7829.7	5988.8	5056.4	4178.8	3770.9	3376.6	3263.5
62.5°	7281.2	9687.7	9663.7	7562.3	4768.4	3688.6	3174.4	2982.4	2677.3	2584.8
65°	6259.7	8069.7	8097.1	6533.9	3171.0	2667.0	2667.0	2423.6	2084.3	2019.1
67.5°	5101.0	6221.9	6160.2	4237.1	1947.1	2135.7	2238.5	1888.9	1412.4	1333.5
70°	3314.9	4751.3	4665.6	2444.2	1223.8	1779.2	1762.0	1419.2	1011.3	956.4
72.5°	1426.1	2745.9	2920.7	1247.8	922.2	1432.9	1405.5	994.1	675.3	651.3
75°	860.4	1381.5	1504.9	795.3	671.9	1079.8	973.6	630.8	459.4	442.2
77.5°	545.1	757.6	750.7	596.5	503.9	730.2	654.8	435.4	312.0	298.2
80°	315.4	373.7	387.4	373.7	339.4	521.1	418.2	315.4	243.4	226.3
82.5°	202.3	233.1	236.5	181.7	188.5	336.0	226.3	185.1	140.6	126.8
85°	89.1	99.4	96.0	61.7	61.7	137.1	78.8	75.4	54.8	54.8
87.5°	3.4	6.9	3.4	3.4	3.4	13.7	6.9	10.3	10.3	10.3
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

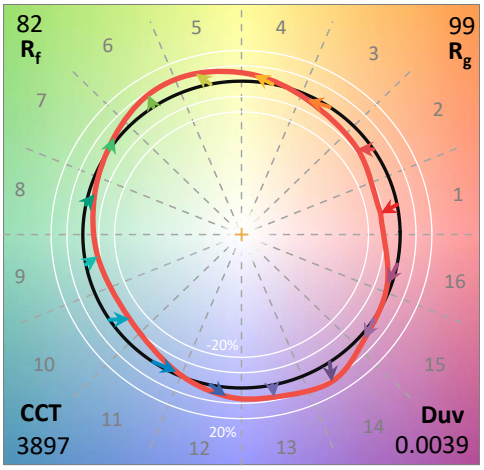
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

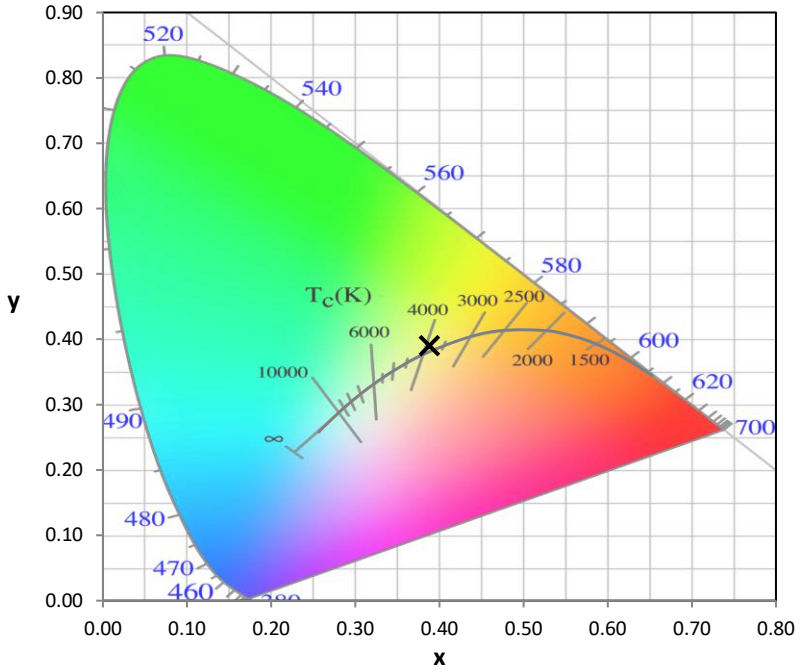
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

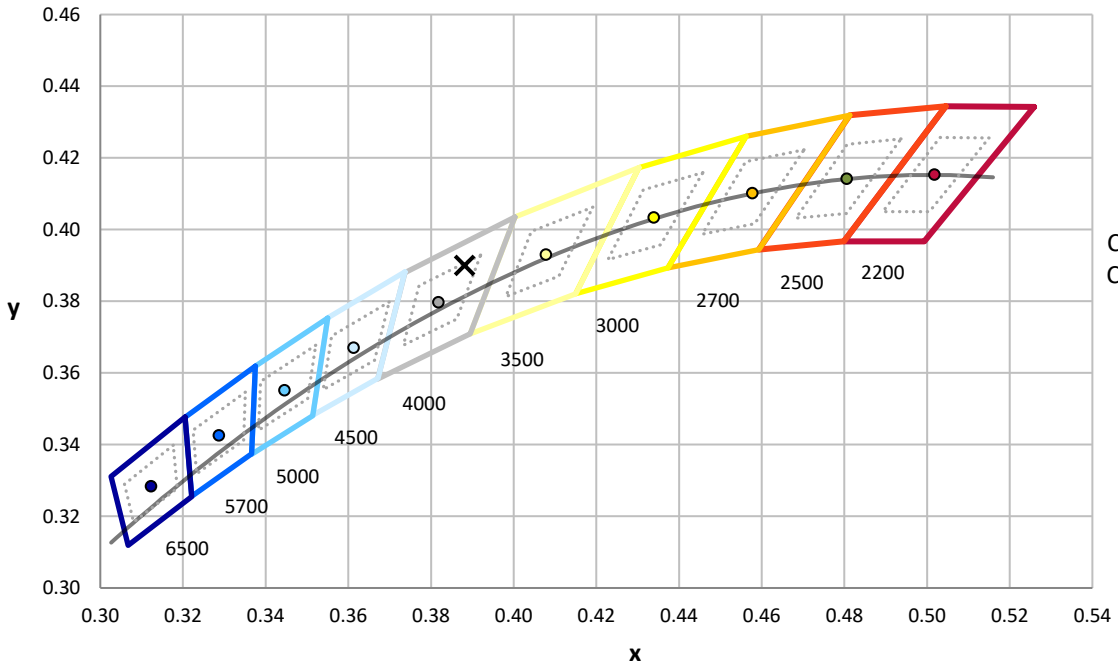
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

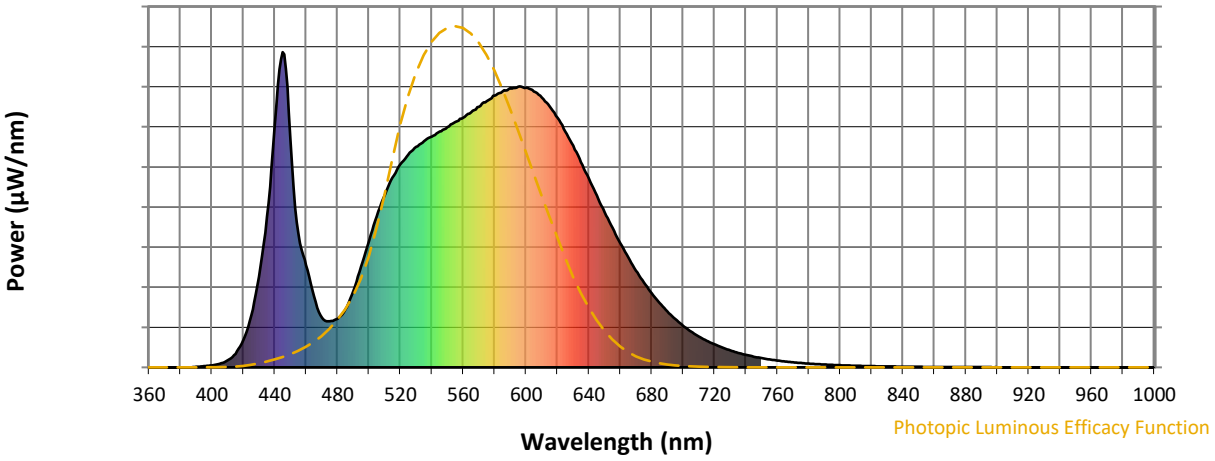


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

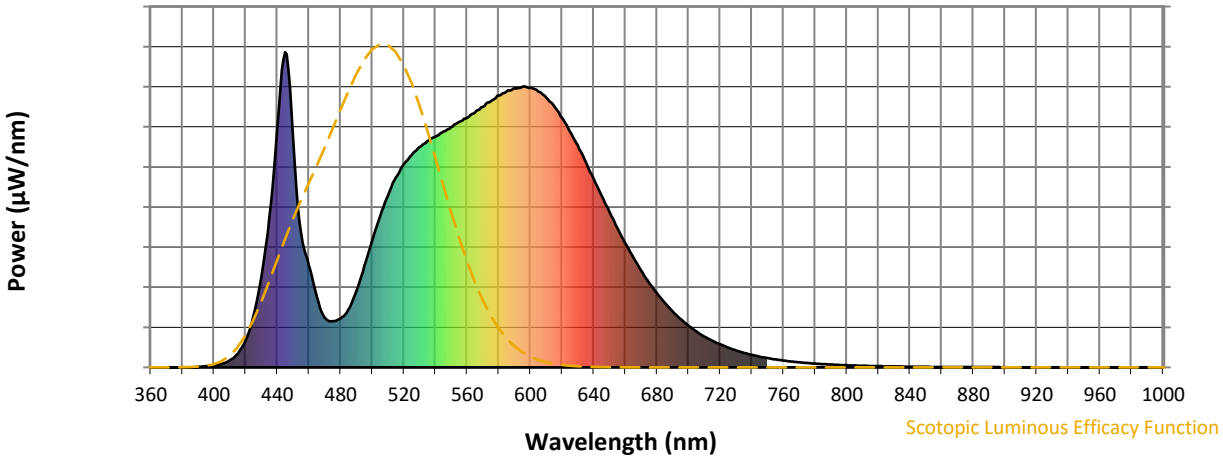


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

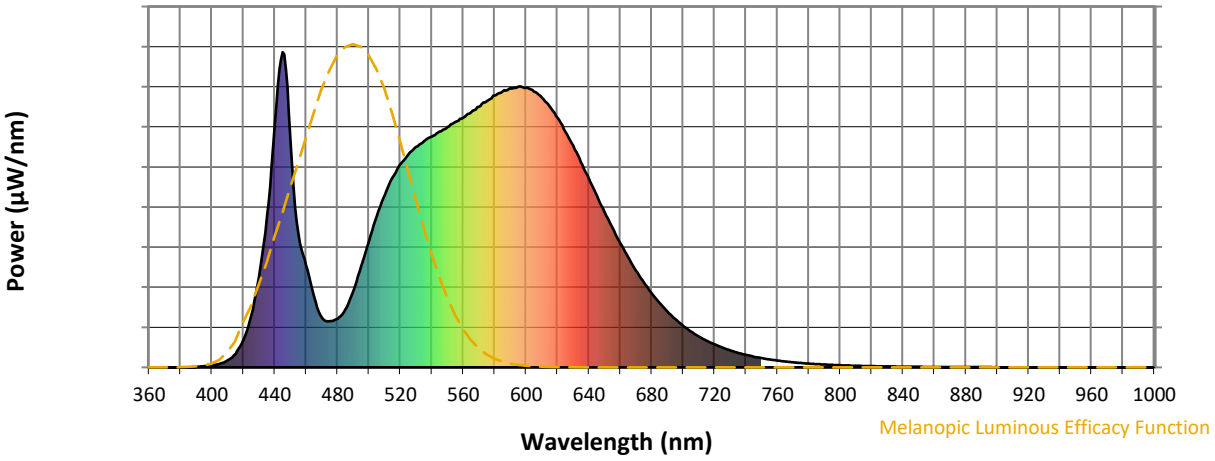


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

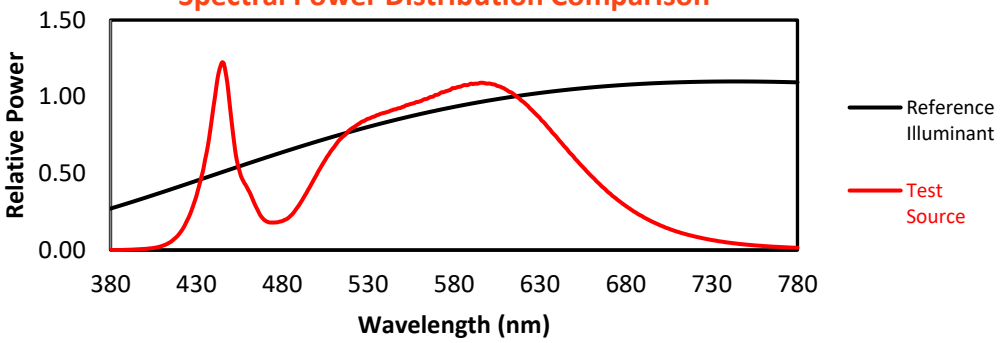
REPORT NUMBER: SP1-2407-184-11

TM-30-18

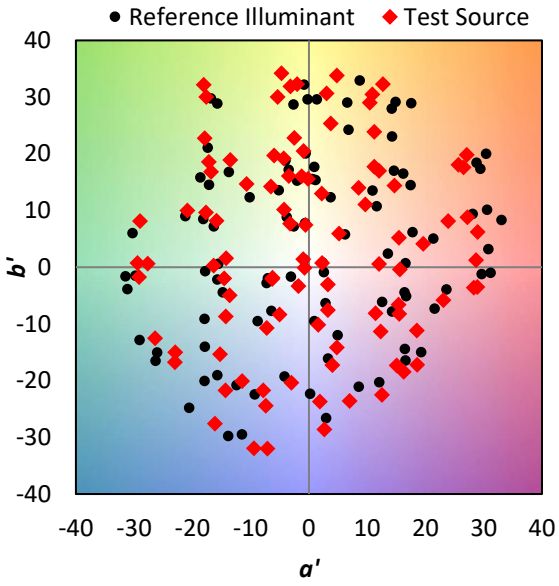
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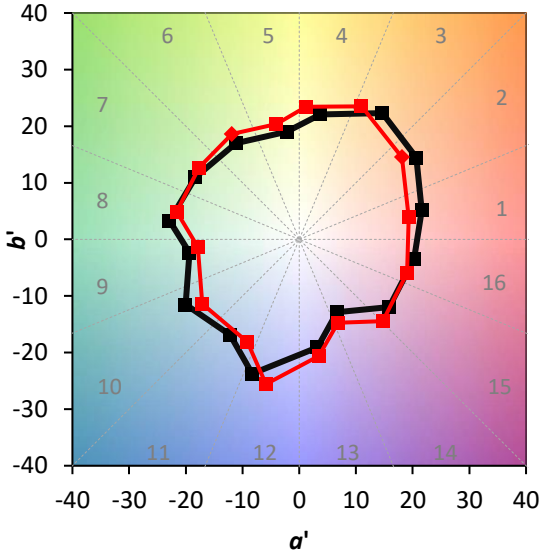
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

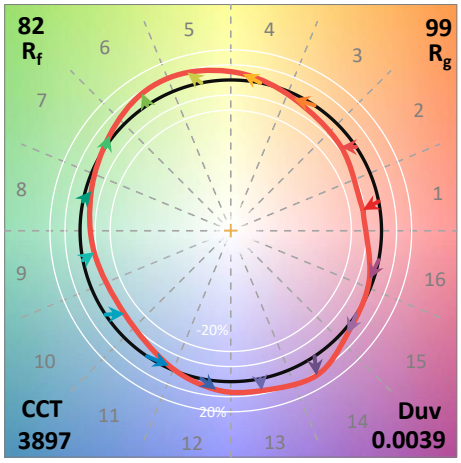
Spectral Power Distribution Comparison

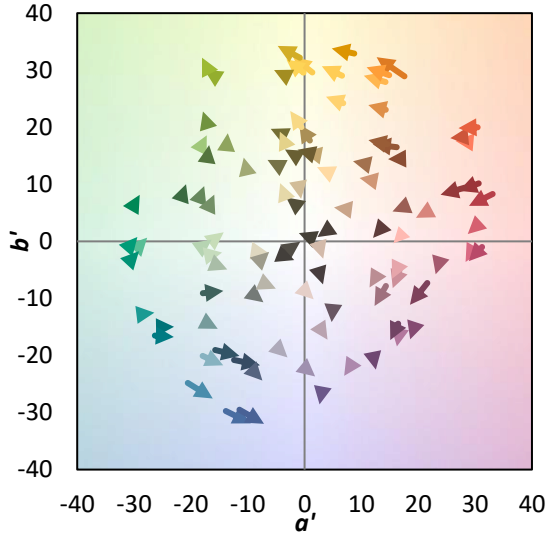


Color Vector Graphics







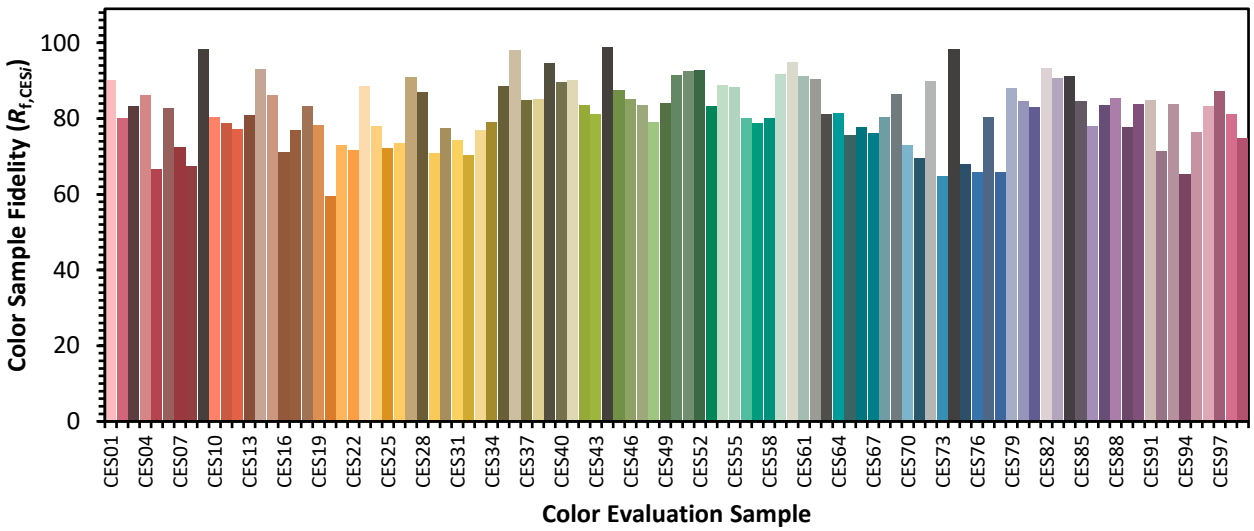


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Individual Sample Fidelity Index ($R_{f,i}$)

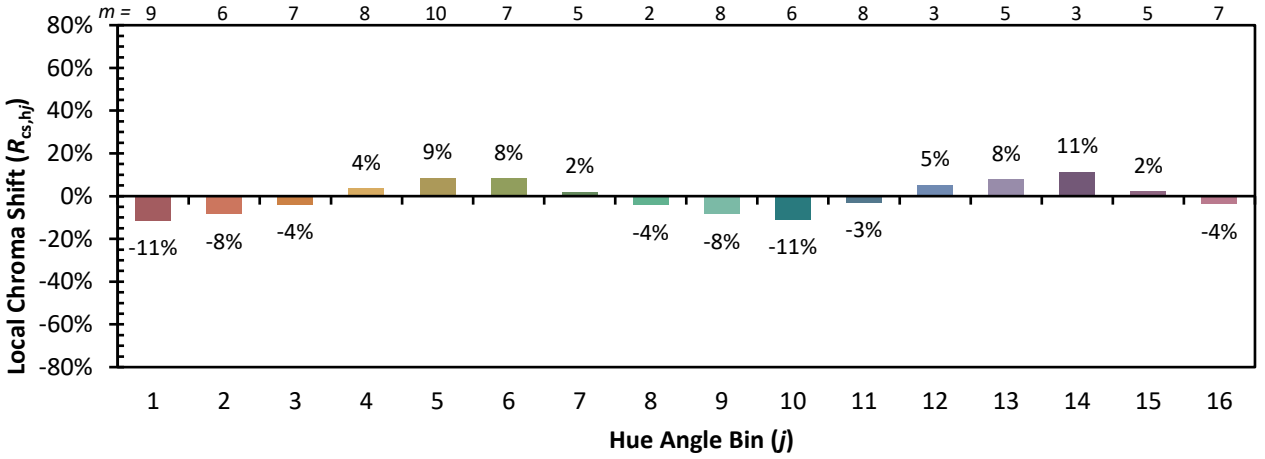
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

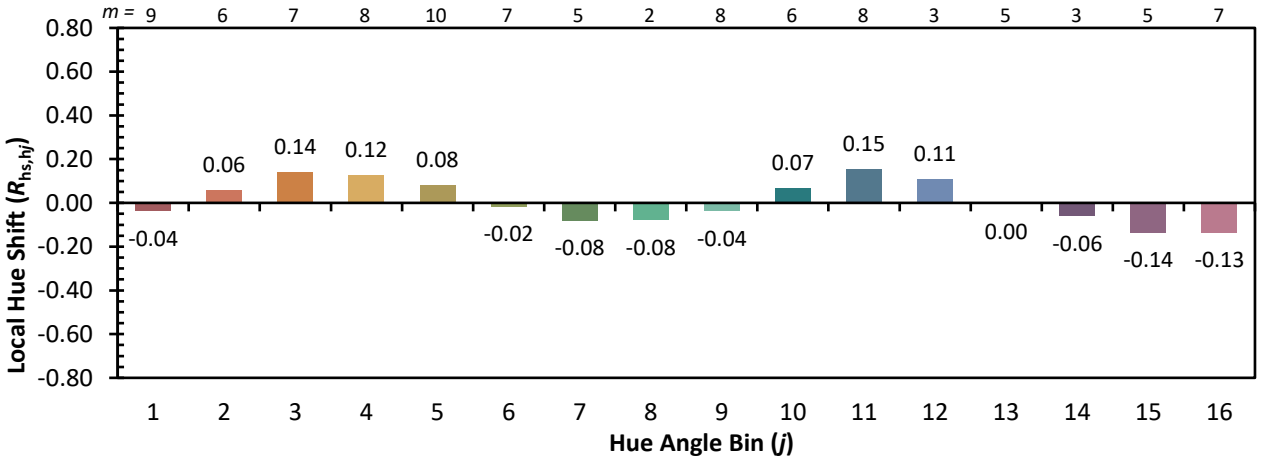


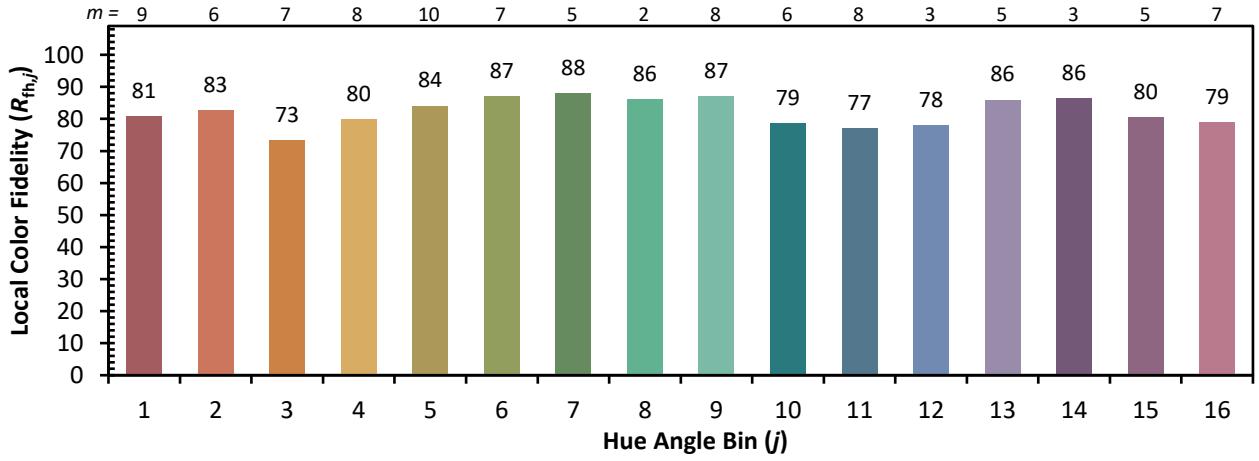
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Color Rendition by Hue-Angle Bin



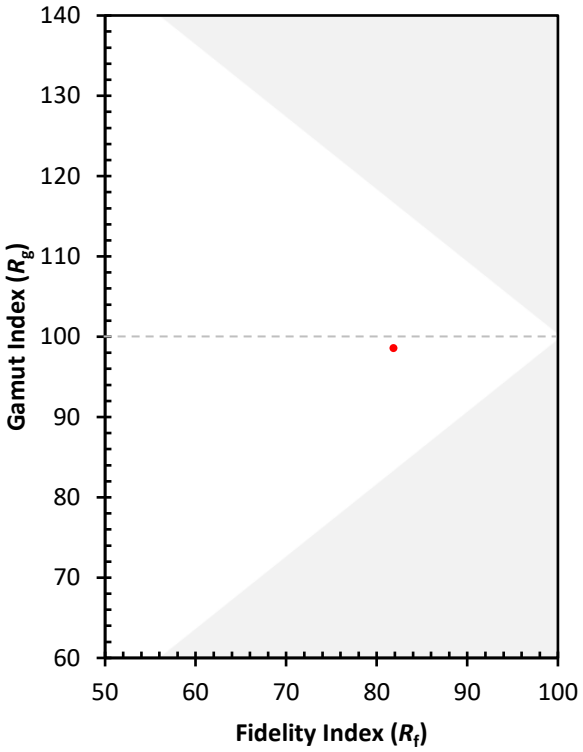


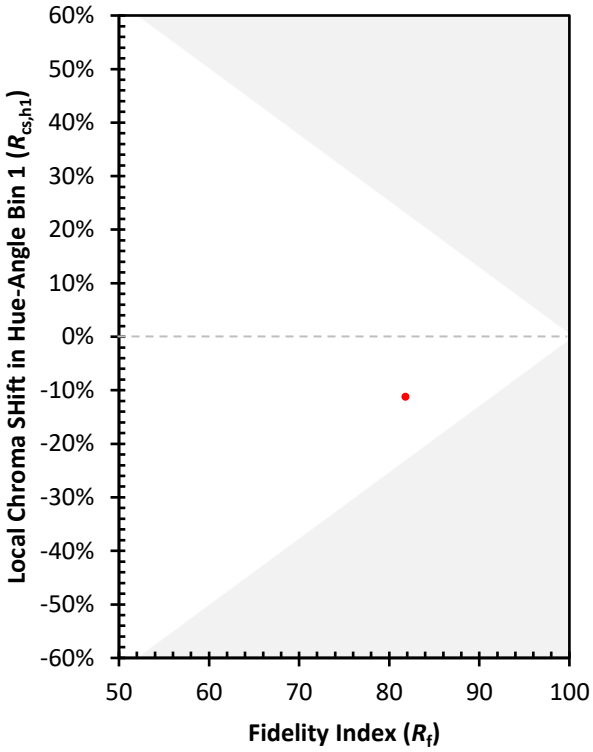


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Measure Comparisons





(END OF REPORT)