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: P1501530

Luminaire Tested: GSS-SB4B-830-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:	P1501530
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19639.8 lumens
Efficiency:	N/A
Efficacy:	132.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

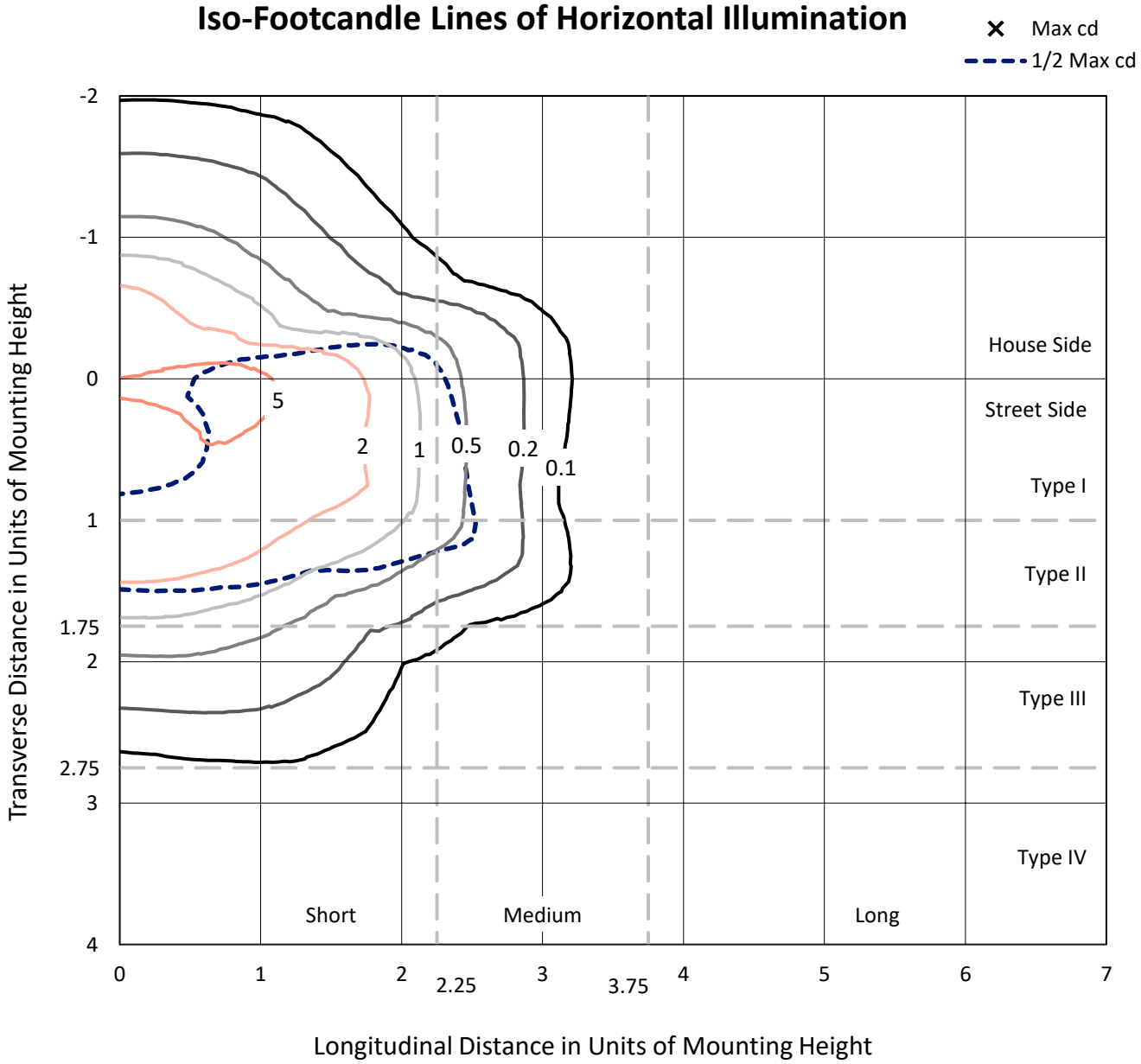
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



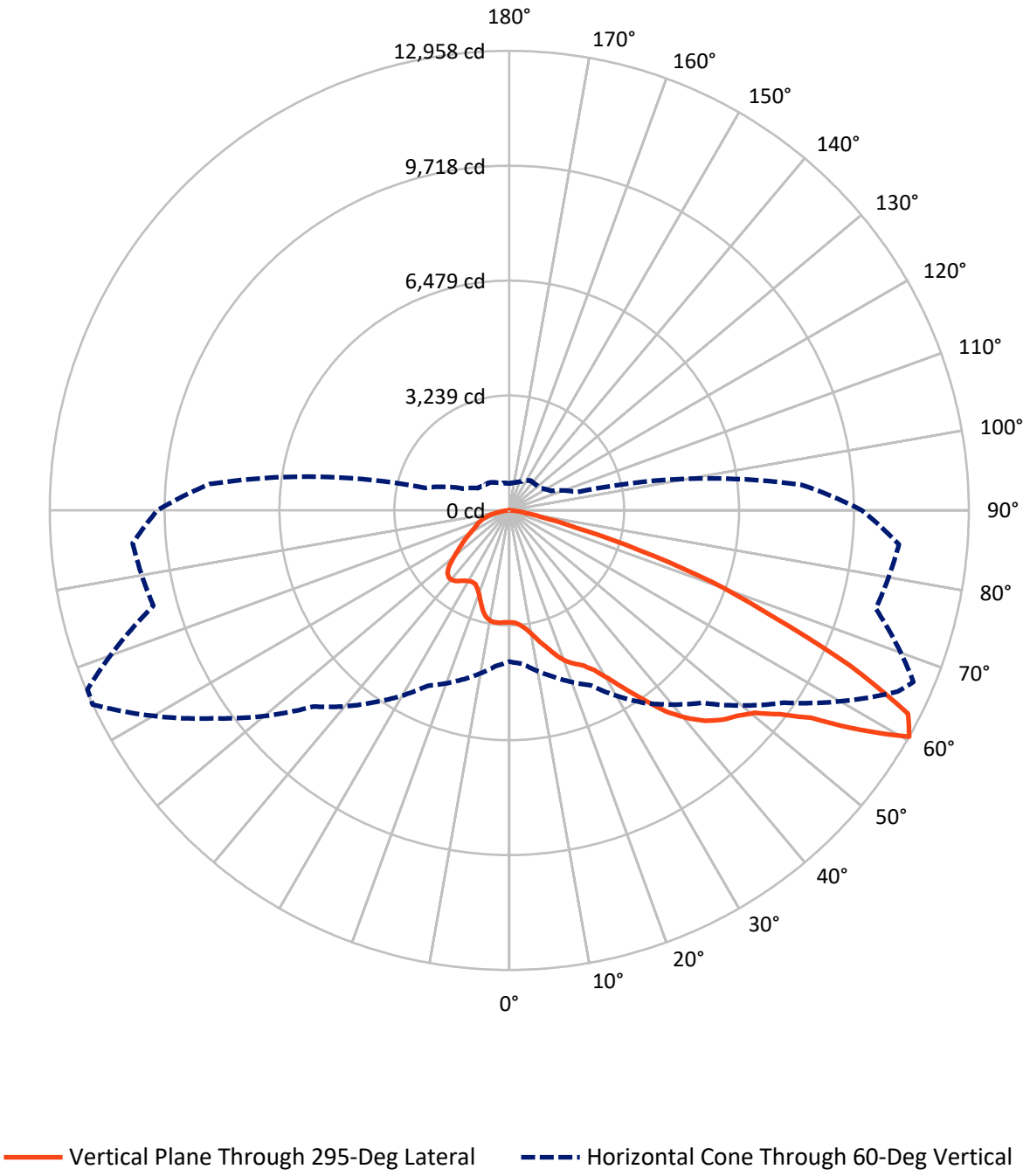
Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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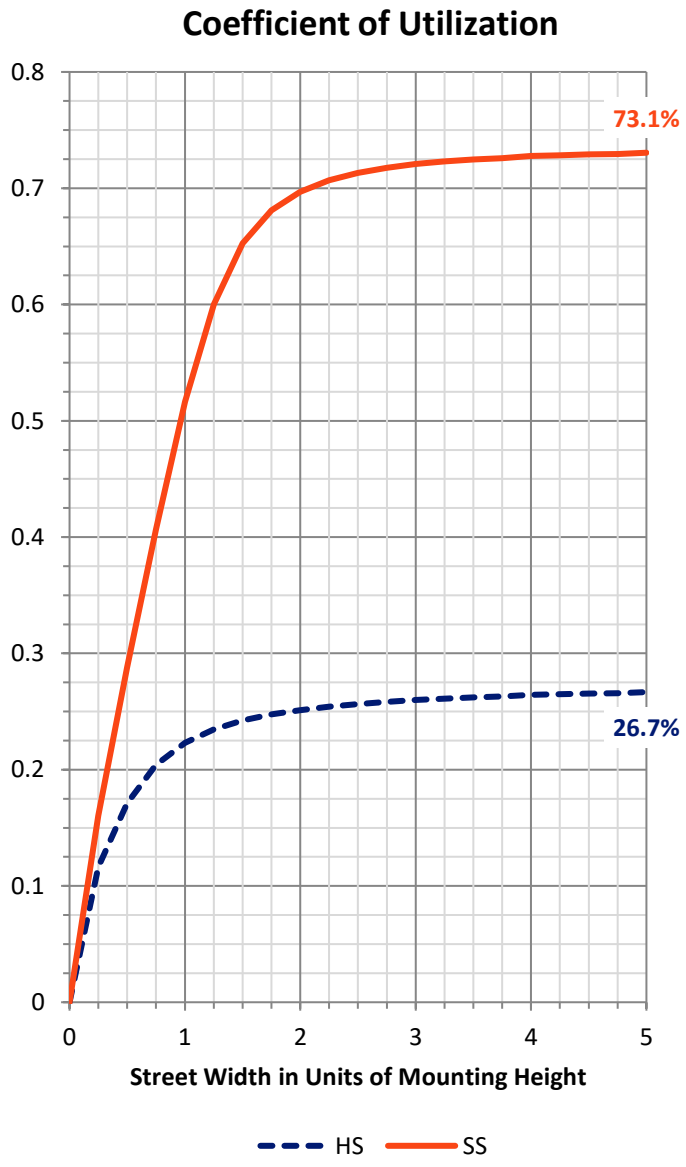
REPORT NUMBER: P1501530
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5281.4	0.0	5281.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14358.4	0.0	14358.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	19639.8	0.0	19639.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.5
10°-20°	854.1	4.3
20°-30°	1617.8	8.2
30°-40°	2852.1	14.5
40°-50°	4217.9	21.5
50°-60°	4953.0	25.2
60°-70°	3588.7	18.3
70°-80°	1106.7	5.6
80°-90°	152.4	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°	19639.8	100.0
0°-180°	19639.8	100.0



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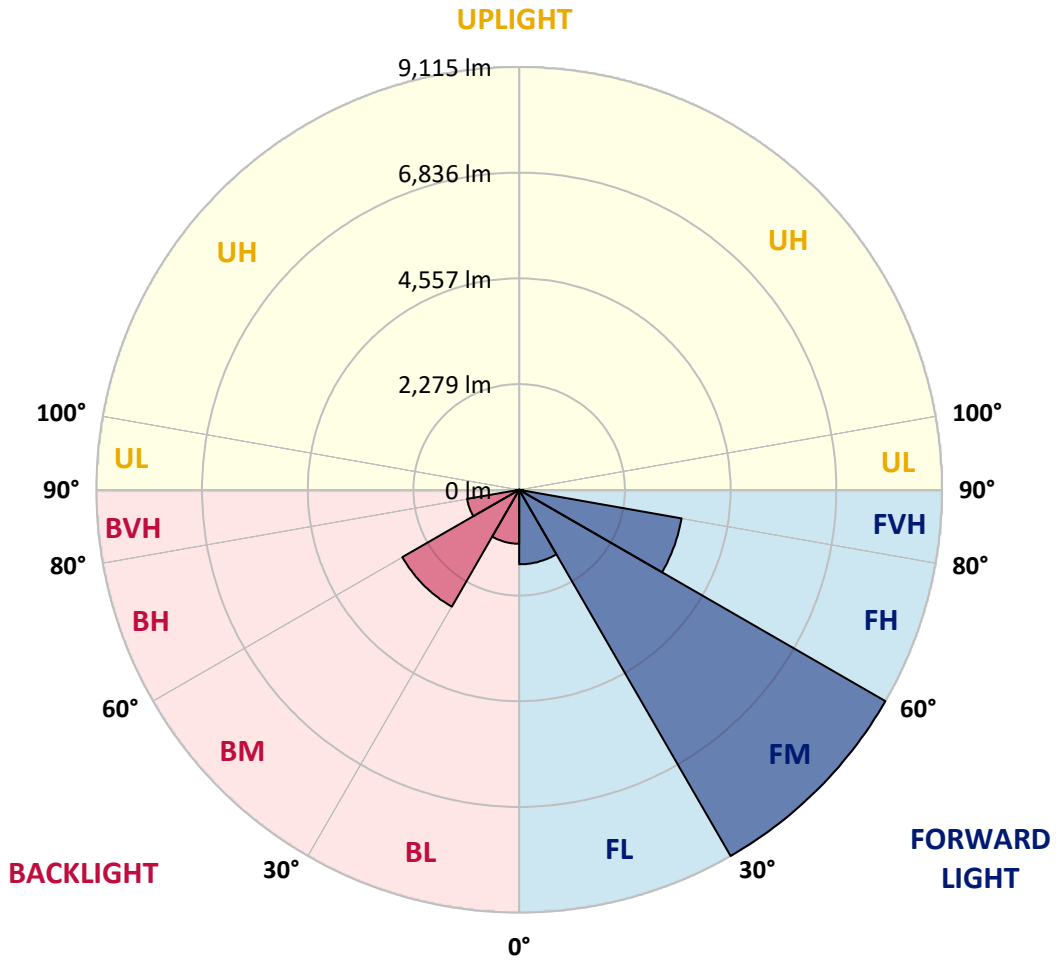
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1605.9	8.2			
FM	(30°-60°)	9114.9	46.4			
FH	(60°-80°)	3555.4	18.1			G2/5000
FVH	(80°-90°)	82.2	0.4			G1/100
BL	(0°-30°)	1163.1	5.9	B3/2500		
BM	(30°-60°)	2908.1	14.8	B3/5000		
BH	(60°-80°)	1140.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	70.2	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-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9
2.5°	3222.6	3231.6	3218.1	3227.1	3227.1	3213.7	3209.2	3191.3	3200.2	3195.8	3191.3
5°	3298.7	3303.2	3294.2	3307.6	3307.6	3312.1	3307.6	3285.3	3285.3	3285.3	3276.3
7.5°	3276.3	3276.3	3280.8	3325.6	3370.3	3428.5	3428.5	3419.5	3428.5	3424.0	3383.7
10°	3088.3	3106.2	3146.5	3258.4	3365.8	3491.2	3576.2	3603.1	3603.1	3607.5	3540.4
12.5°	2752.6	2766.1	2860.1	3030.1	3253.9	3482.2	3688.1	3822.4	3835.8	3858.2	3768.7
15°	2452.8	2461.7	2528.9	2703.4	2958.5	3361.4	3750.8	4028.3	4073.0	4167.0	4032.7
17.5°	2479.6	2475.1	2493.0	2560.2	2743.7	3164.4	3737.3	4270.0	4350.5	4516.1	4399.8
20°	2640.7	2640.7	2654.2	2667.6	2734.7	3021.2	3638.9	4466.9	4623.5	4945.8	4811.5
22.5°	2895.9	2895.9	2891.4	2913.8	2913.8	3083.9	3643.3	4614.6	4847.3	5424.7	5294.9
25°	3249.5	3231.6	3231.6	3240.5	3200.2	3321.1	3755.2	4766.8	5071.1	5993.2	5881.3
27.5°	3647.8	3661.2	3652.3	3621.0	3567.2	3661.2	4023.8	5004.0	5321.8	6592.9	6548.2
30°	4082.0	4086.4	4095.4	4077.5	4032.7	4099.9	4444.5	5362.1	5653.0	7219.5	7318.0
32.5°	4507.2	4569.8	4547.5	4502.7	4520.6	4641.4	4963.7	5845.4	6145.3	7801.4	8150.5
35°	5048.7	5071.1	5160.6	4995.0	4999.5	5205.4	5626.1	6481.0	6771.9	8405.6	8983.0
37.5°	5836.5	5876.8	5836.5	5576.9	5536.6	5823.1	6270.7	7107.6	7318.0	8862.2	9757.3
40°	6610.8	6660.1	6727.2	6422.8	6167.7	6404.9	6879.4	7586.6	7805.9	9112.8	10272.1
42.5°	7250.9	7331.4	7259.8	7170.3	6937.6	6982.3	7304.6	7958.0	8177.4	9430.6	10791.3
45°	7792.4	7805.9	7837.2	7774.5	7658.2	7617.9	7667.1	8284.8	8526.5	9573.8	11046.4
47.5°	8016.2	8074.4	8101.3	8208.7	8329.5	8249.0	7975.9	8437.0	8656.3	9564.9	11126.9
50°	7895.4	7953.6	8096.8	8351.9	8642.9	8786.1	8338.5	8647.3	8893.5	9726.0	11292.5
52.5°	7577.6	7640.3	7873.0	8163.9	8651.8	8978.5	8848.7	9086.0	9323.2	10012.5	11570.1
55°	6807.8	6901.7	7228.5	7711.9	8383.3	8875.6	9385.8	9730.5	9990.1	10357.1	11856.5
57.5°	5688.8	5787.3	6154.3	6879.4	7886.4	8450.4	9542.5	10939.0	11055.3	10768.9	11883.4
60°	*4261.0*	*4341.6*	*4860.8*	*5442.6*	*6624.2*	*7671.6*	*9453.0*	*12084.8*	*12380.2*	*10697.3*	*11028.5*
62.5°	3374.8	3473.3	3934.3	4202.8	5048.7	6337.8	9139.7	12402.6	12657.7	10106.5	9837.9
65°	2636.3	2703.4	3133.1	3518.0	3723.9	4328.1	7832.7	10849.4	11077.7	9144.1	8119.2
67.5°	1741.1	1844.0	2354.3	2882.4	2989.9	2752.6	5388.9	8347.4	8454.9	7268.8	6105.0
70°	1248.8	1298.0	1678.4	2242.4	2403.5	1844.0	2936.2	6319.9	6351.2	4878.7	4113.3
72.5°	850.4	859.4	1141.3	1718.7	1915.7	1338.3	1615.8	4162.5	4055.1	2408.0	2354.3
75°	577.4	586.3	729.6	1145.8	1356.2	931.0	1051.8	2269.3	2179.7	1329.3	1427.8
77.5°	389.4	398.3	501.3	769.8	904.1	644.5	769.8	1199.5	1177.1	881.7	765.4
80°	295.4	308.8	371.5	492.3	631.1	376.0	438.6	568.4	577.4	470.0	389.4
82.5°	165.6	183.5	223.8	250.6	407.3	210.4	210.4	340.2	326.7	290.9	210.4
85°	71.6	76.1	89.5	94.0	165.6	89.5	76.1	147.7	152.2	143.2	67.1
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	17.9	17.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9
2.5°	3168.9	3195.8	3168.9	3155.5	3155.5	3133.1	3124.1	3124.1	3092.8	3106.2	3097.3
5°	3240.5	3249.5	3218.1	3177.8	3124.1	3079.4	3016.7	2936.2	2886.9	2882.4	2886.9
7.5°	3352.4	3356.9	3271.8	3182.3	3048.0	2886.9	2694.5	2537.8	2399.1	2376.7	2403.5
10°	3509.1	3500.1	3374.8	3164.4	2882.4	2542.3	2246.9	2103.6	2023.1	2018.6	2014.1
12.5°	3719.4	3661.2	3468.8	3088.3	2596.0	2202.1	2049.9	2041.0	2063.4	2081.3	2085.7
15°	3961.1	3885.0	3544.9	2940.6	2305.1	2076.8	2085.7	2161.8	2188.7	2206.6	2206.6
17.5°	4261.0	4162.5	3629.9	2730.3	2157.4	2103.6	2166.3	2237.9	2282.7	2300.6	2296.1
20°	4659.4	4453.5	3697.0	2528.9	2117.1	2148.4	2202.1	2273.7	2318.5	2340.9	2340.9
22.5°	5057.7	4802.6	3710.5	2390.1	2117.1	2152.9	2202.1	2273.7	2323.0	2345.3	2340.9
25°	5599.3	5250.2	3714.9	2291.6	2121.5	2130.5	2175.3	2237.9	2309.5	2331.9	2340.9
27.5°	6176.7	5742.5	3737.3	2269.3	2103.6	2099.2	2130.5	2188.7	2260.3	2318.5	2323.0
30°	6892.8	6297.5	3746.3	2291.6	2108.1	2049.9	2072.3	2130.5	2206.6	2264.8	2282.7
32.5°	7595.5	6812.2	3728.4	2340.9	2117.1	2018.6	2023.1	2058.9	2139.5	2179.7	2211.1
35°	8338.5	7358.3	3697.0	2408.0	2121.5	2005.2	1964.9	1982.8	2036.5	2041.0	2054.4
37.5°	8920.4	7765.6	3603.1	2497.5	2130.5	1955.9	1875.4	1862.0	1839.6	1794.8	1803.8
40°	9399.3	8038.6	3446.4	2542.3	2108.1	1897.8	1763.5	1700.8	1615.8	1548.6	1562.1
42.5°	9743.9	8222.1	3258.4	2551.2	2072.3	1799.3	1633.7	1526.3	1432.3	1360.7	1365.1
45°	9896.1	8204.2	3057.0	2484.1	1987.3	1678.4	1512.8	1409.9	1306.9	1230.9	1221.9
47.5°	9900.6	8029.7	2779.5	2323.0	1844.0	1539.7	1400.9	1289.0	1204.0	1150.3	1145.8
50°	9936.4	7931.2	2519.9	2090.2	1656.1	1392.0	1302.5	1190.6	1141.3	1065.3	1042.9
52.5°	10160.2	8092.3	2340.9	1835.1	1481.5	1284.6	1217.4	1119.0	1038.4	989.2	984.7
55°	10522.7	8369.8	2242.4	1642.6	1315.9	1181.6	1136.9	1051.8	980.2	931.0	917.5
57.5°	10567.5	8513.1	2126.0	1463.6	1181.6	1101.1	1083.2	989.2	886.2	850.4	837.0
60°	*9940.8*	*8271.4*	*1982.8*	*1298.0*	*1083.2*	*1038.4*	*1029.4*	*904.1*	*819.1*	*774.3*	*756.4*
62.5°	9086.0	7667.1	1763.5	1145.8	1007.1	975.7	939.9	841.5	734.0	684.8	671.4
65°	7425.4	6445.2	1499.4	1042.9	931.0	895.2	886.2	751.9	680.3	653.5	649.0
67.5°	5626.1	5178.5	1320.4	966.8	850.4	837.0	805.7	760.9	729.6	698.2	689.3
70°	3979.0	3737.3	1123.4	868.3	769.8	747.5	877.3	828.0	716.1	675.9	671.4
72.5°	2412.5	2345.3	971.3	778.8	662.4	698.2	810.1	747.5	644.5	595.3	577.4
75°	1521.8	1392.0	814.6	662.4	528.1	568.4	707.2	666.9	555.0	505.8	492.3
77.5°	828.0	769.8	613.2	541.6	416.3	461.0	617.7	550.5	443.1	483.4	429.7
80°	362.5	402.8	407.3	313.3	277.5	340.2	443.1	429.7	340.2	344.6	286.5
82.5°	174.6	228.3	264.1	214.8	156.7	201.4	295.4	246.2	228.3	214.8	205.9
85°	53.7	85.0	116.4	102.9	71.6	85.0	138.8	134.3	161.1	138.8	129.8
87.5°	17.9	17.9	13.4	13.4	13.4	17.9	22.4	13.4	4.5	4.5	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°	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9
2.5°	3092.8	3097.3	3097.3	3101.8	3101.8	3115.2	3133.1	3151.0	3137.6	3155.5	3159.9
5°	2878.0	2900.3	2918.2	2985.4	3039.1	3083.9	3133.1	3177.8	3191.3	3200.2	3222.6
7.5°	2372.2	2434.9	2551.2	2703.4	2873.5	3039.1	3151.0	3267.4	3285.3	3307.6	3339.0
10°	2018.6	2045.5	2126.0	2282.7	2587.0	2913.8	3186.8	3370.3	3446.4	3491.2	3522.5
12.5°	2076.8	2058.9	2045.5	2067.8	2264.8	2685.5	3164.4	3518.0	3661.2	3710.5	3750.8
15°	2215.5	2197.6	2148.4	2085.7	2108.1	2443.8	3088.3	3656.8	3885.0	3965.6	4050.6
17.5°	2296.1	2278.2	2237.9	2170.8	2112.6	2242.4	2945.1	3782.1	4238.6	4337.1	4457.9
20°	2340.9	2323.0	2282.7	2215.5	2148.4	2166.3	2761.6	3938.7	4641.4	4798.1	4977.1
22.5°	2349.8	2327.4	2282.7	2215.5	2175.3	2161.8	2587.0	4032.7	5075.6	5317.3	5523.2
25°	2345.3	2305.1	2246.9	2197.6	2175.3	2170.8	2466.2	4086.4	5545.6	5930.5	6163.2
27.5°	2314.0	2264.8	2206.6	2170.8	2161.8	2188.7	2412.5	4149.1	6096.1	6588.4	6959.9
30°	2278.2	2206.6	2135.0	2121.5	2143.9	2229.0	2457.2	4171.5	6673.5	7304.6	7685.0
32.5°	2184.2	2130.5	2058.9	2054.4	2108.1	2260.3	2560.2	4140.2	7183.7	8020.7	8499.6
35°	2049.9	2018.6	1978.3	1991.7	2076.8	2287.2	2631.8	4041.7	7649.2	8687.6	9247.1
37.5°	1812.7	1835.1	1857.5	1888.8	1996.2	2282.7	2663.1	3885.0	8034.1	9220.2	9936.4
40°	1548.6	1624.7	1696.3	1776.9	1920.1	2246.9	2672.1	3692.6	8257.9	9623.1	10549.6
42.5°	1383.0	1454.6	1544.2	1660.5	1817.2	2166.3	2663.1	3477.7	8329.5	9900.6	10939.0
45°	1230.9	1315.9	1427.8	1548.6	1727.7	2049.9	2582.6	3245.0	8365.3	10030.4	11104.6
47.5°	1150.3	1199.5	1302.5	1423.3	1611.3	1906.7	2425.9	3074.9	8311.6	10057.2	11306.0
50°	1056.3	1123.4	1190.6	1306.9	1490.5	1727.7	2237.9	2976.4	8401.2	10321.3	11623.8
52.5°	984.7	1020.5	1092.1	1199.5	1333.8	1562.1	2058.9	2895.9	8647.3	10589.8	11955.0
55°	931.0	971.3	1016.0	1105.5	1208.5	1396.5	1875.4	2775.0	8933.8	10876.3	12286.2
57.5°	845.9	872.8	935.5	1029.4	1096.6	1235.3	1660.5	2631.8	8911.4	10652.5	11713.3
60°	*769.8*	*796.7*	*863.8*	*957.8*	*998.1*	*1092.1*	*1450.2*	*2448.3*	*8481.7*	*9922.9*	*10657.0*
62.5°	684.8	716.1	796.7	863.8	899.6	971.3	1230.9	2112.6	7586.6	8826.4	9421.6
65°	649.0	666.9	720.6	801.2	796.7	863.8	1038.4	1660.5	6105.0	6745.1	7286.7
67.5°	689.3	716.1	707.2	729.6	716.1	751.9	931.0	1333.8	4798.1	5080.1	5393.4
70°	680.3	743.0	774.3	729.6	626.6	666.9	805.7	1065.3	3433.0	3406.1	3392.7
72.5°	595.3	657.9	747.5	792.2	613.2	555.0	698.2	922.0	2202.1	2193.2	1982.8
75°	505.8	550.5	657.9	716.1	528.1	447.6	599.8	783.3	1315.9	1333.8	1190.6
77.5°	465.5	443.1	550.5	631.1	429.7	344.6	483.4	590.8	725.1	734.0	680.3
80°	335.7	322.3	411.8	461.0	326.7	246.2	273.0	367.0	389.4	349.1	362.5
82.5°	214.8	219.3	246.2	295.4	201.4	134.3	188.0	246.2	210.4	170.1	201.4
85°	138.8	156.7	129.8	152.2	62.7	62.7	80.6	107.4	71.6	49.2	53.7
87.5°	0.0	0.0	9.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1501530
CATALOG NUMBER: GSS-SB4B-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3159.9	3159.9	*3159.9*	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9
2.5°	3173.4	3168.9	*3168.9*	3177.8	3200.2	3209.2	3222.6	3218.1	3231.6	3222.6
5°	3236.0	3240.5	*3253.9*	3258.4	3271.8	3289.7	3294.2	3289.7	3298.7	3298.7
7.5°	3361.4	3379.3	*3370.3*	3392.7	3374.8	3352.4	3316.6	3289.7	3267.4	3276.3
10°	3571.7	3562.8	*3558.3*	3518.0	3437.4	3321.1	3227.1	3124.1	3106.2	3088.3
12.5°	3804.5	3795.5	*3795.5*	3656.8	3428.5	3186.8	2972.0	2810.8	2757.1	2752.6
15°	4131.2	4073.0	*4019.3*	3728.4	3271.8	2860.1	2609.4	2484.1	2452.8	2452.8
17.5°	4538.5	4386.3	*4296.8*	3674.7	3016.7	2645.2	2497.5	2466.2	2457.2	2479.6
20°	5044.3	4659.4	*4529.6*	3553.8	2922.7	2672.1	2600.5	2604.9	2609.4	2640.7
22.5°	5599.3	4910.0	*4695.2*	3553.8	3016.7	2842.2	2806.4	2855.6	2869.0	2895.9
25°	6216.9	5133.8	*4842.9*	3741.8	3294.2	3164.4	3119.7	3168.9	3204.7	3249.5
27.5°	6910.7	5366.5	*5098.0*	4082.0	3652.3	3571.7	3522.5	3544.9	3594.1	3647.8
30°	7532.8	5755.9	*5487.4*	4601.2	4140.2	4041.7	3956.6	3992.5	4046.2	4082.0
32.5°	8083.4	6230.4	*6002.1*	5147.2	4699.6	4529.6	4435.6	4426.6	4534.0	4507.2
35°	8589.1	6789.9	*6570.5*	5769.4	5268.1	5057.7	4932.4	5093.5	5021.9	5048.7
37.5°	8987.5	7371.7	*7197.2*	6364.6	5858.9	5572.4	5496.3	5693.3	5805.2	5836.5
40°	9314.2	7877.5	*7694.0*	6955.5	6400.5	6190.1	6310.9	6637.7	6624.2	6610.8
42.5°	9564.9	8311.6	*8110.2*	7403.0	6919.7	6959.9	7053.9	7273.2	7327.0	7250.9
45°	9676.8	8584.7	*8423.5*	7756.6	7510.5	7743.2	7783.5	7877.5	7841.7	7792.4
47.5°	9806.6	8826.4	*8656.3*	8078.9	8150.5	8378.8	8298.2	8222.1	8092.3	8016.2
50°	10025.9	9112.8	*8969.6*	8548.9	8808.5	8732.4	8419.1	8249.0	7984.9	7895.4
52.5°	10442.1	9654.4	*9547.0*	9291.8	9117.3	8678.7	8298.2	7993.9	7698.4	7577.6
55°	10813.6	10388.4	*10325.8*	9985.6	9023.3	8396.7	7886.4	7416.5	6910.7	6807.8
57.5°	11028.5	11605.9	*11677.5*	10281.0	8593.6	7756.6	7004.7	6252.8	5773.8	5688.8
60°	*10388.4*	*12921.8*	*12957.6*	*10222.8*	*7819.3*	*6601.9*	*5456.1*	*4923.4*	*4408.7*	*4261.0*
62.5°	9506.7	12648.7	*12617.4*	9873.7	6225.9	4816.0	4144.6	3894.0	3495.6	3374.8
65°	8172.9	10536.1	*10571.9*	8531.0	4140.2	3482.2	3482.2	3164.4	2721.3	2636.3
67.5°	6660.1	8123.7	*8043.1*	5532.1	2542.3	2788.4	2922.7	2466.2	1844.0	1741.1
70°	4328.1	6203.5	*6091.6*	3191.3	1597.9	2323.0	2300.6	1853.0	1320.4	1248.8
72.5°	1862.0	3585.1	*3813.4*	1629.2	1204.0	1870.9	1835.1	1298.0	881.7	850.4
75°	1123.4	1803.8	*1964.9*	1038.4	877.3	1409.9	1271.1	823.6	599.8	577.4
77.5°	711.7	989.2	*980.2*	778.8	657.9	953.4	854.9	568.4	407.3	389.4
80°	411.8	487.9	*505.8*	487.9	443.1	680.3	546.1	411.8	317.8	295.4
82.5°	264.1	304.4	*308.8*	237.2	246.2	438.6	295.4	241.7	183.5	165.6
85°	116.4	129.8	*125.3*	80.6	80.6	179.0	102.9	98.5	71.6	71.6
87.5°	4.5	9.0	*4.5*	4.5	4.5	17.9	9.0	13.4	13.4	13.4
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

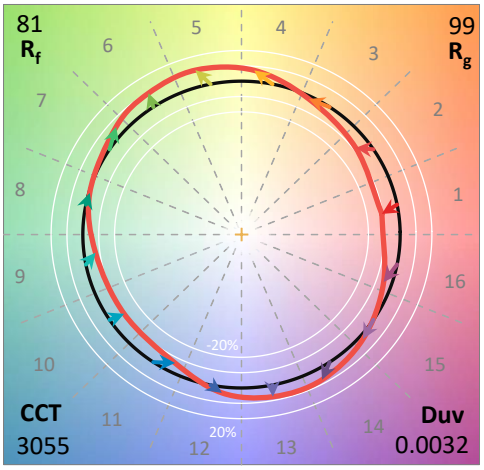
Test Information

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

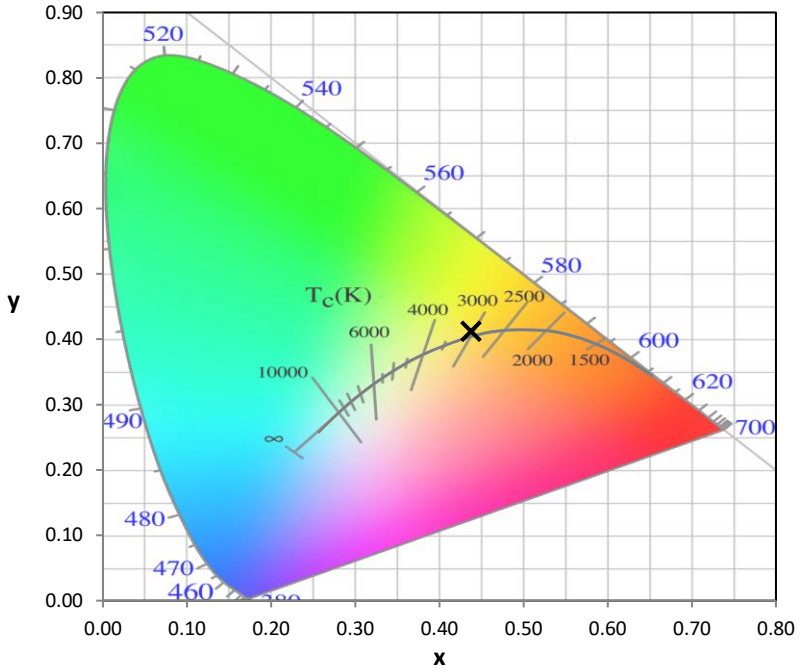
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

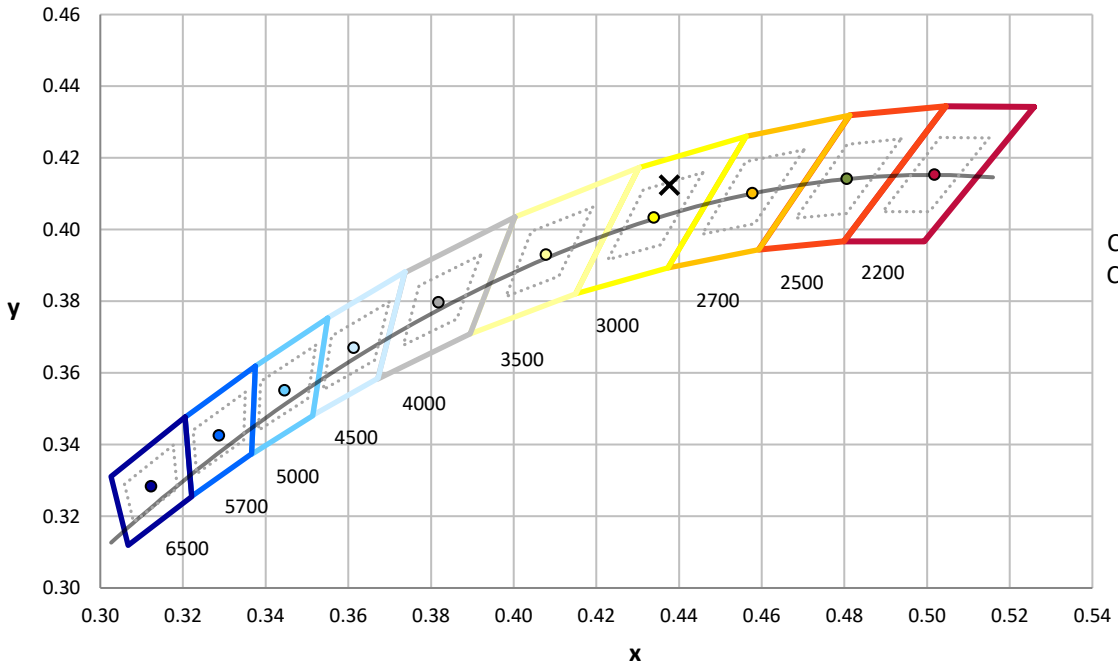
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

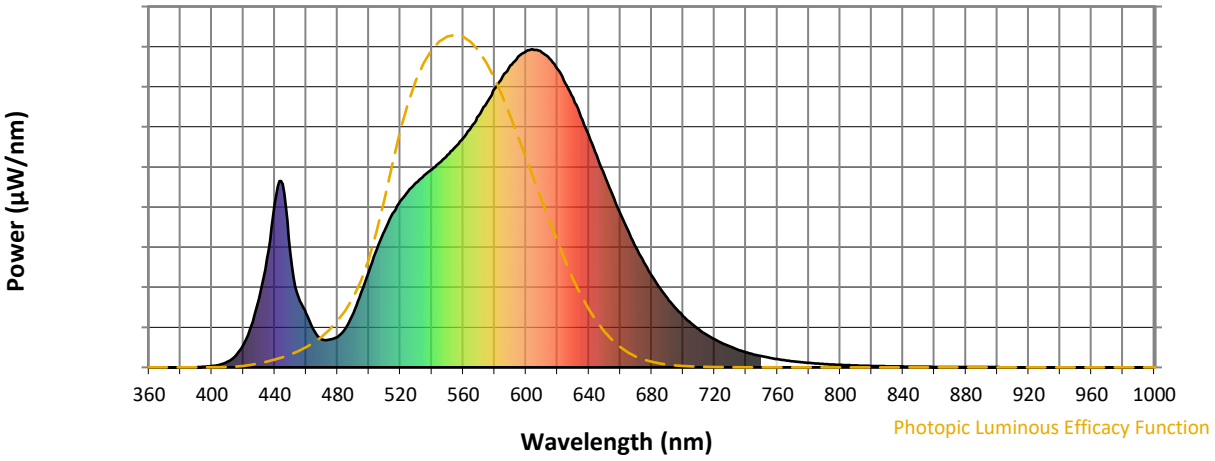


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

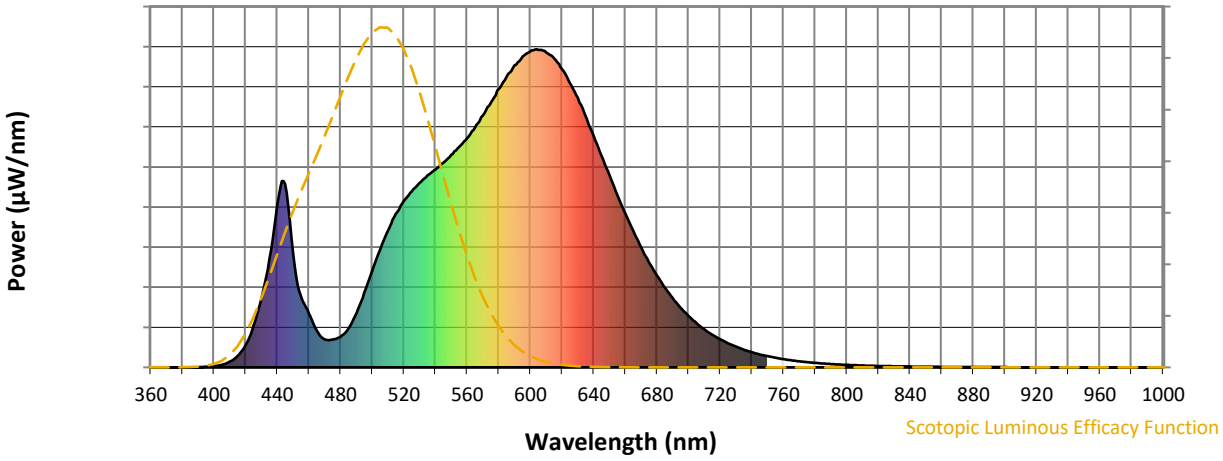


Photopic Lumens: NR

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

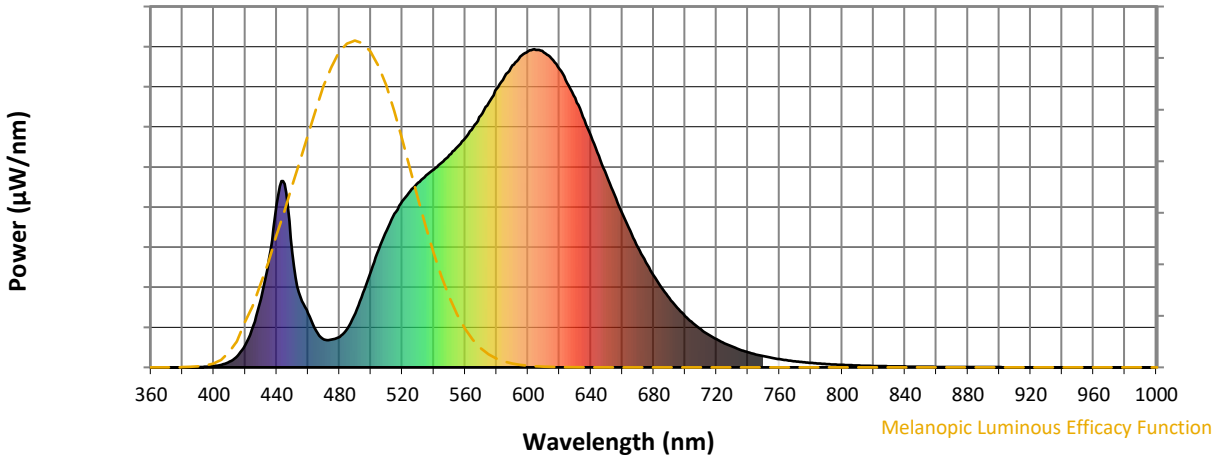


Scotopic Lumens: NR **S/P: 1.28**

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			

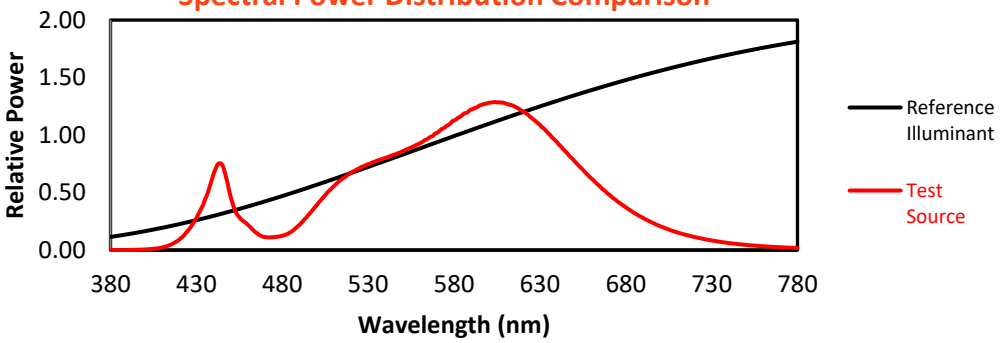
REPORT NUMBER: SP1-2407-184-9

TM-30-18

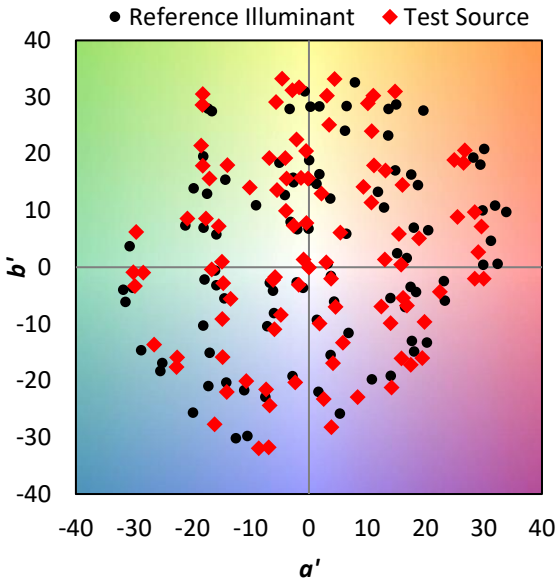
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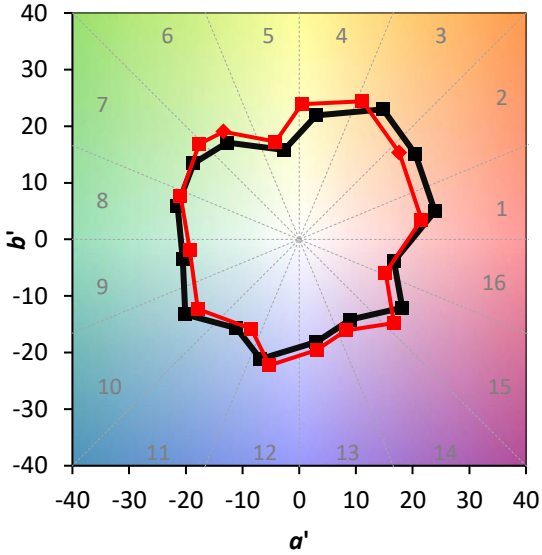
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

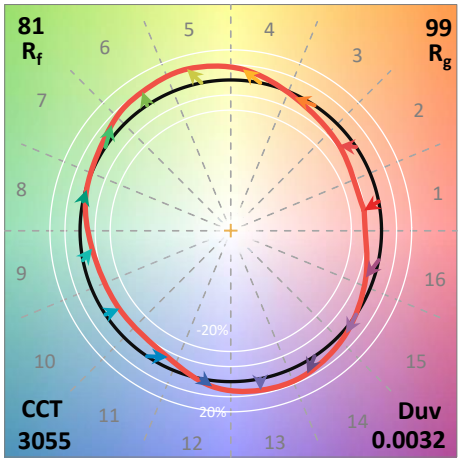
Spectral Power Distribution Comparison

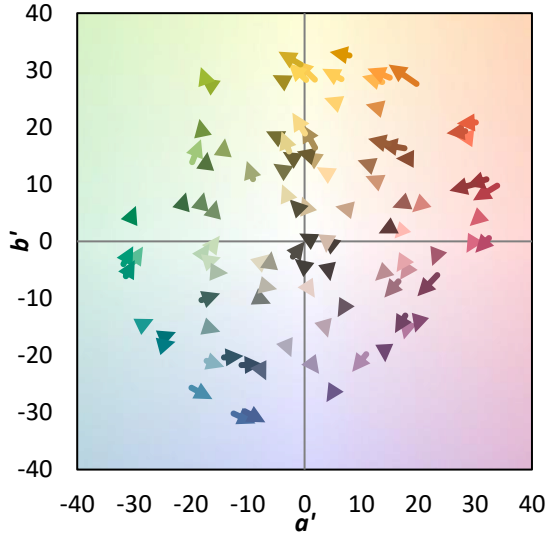


Color Vector Graphics







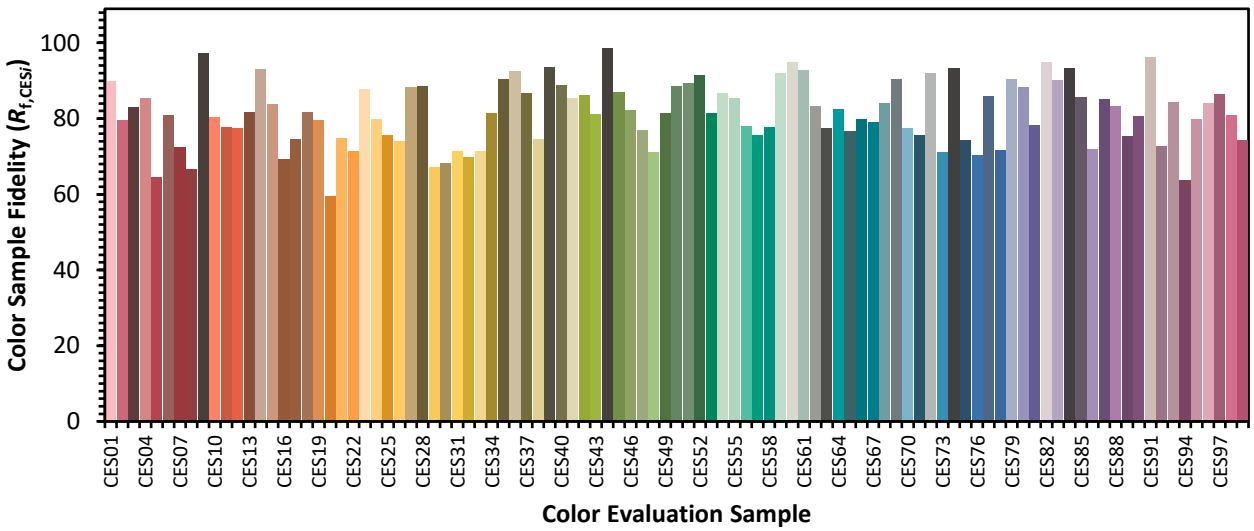


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Individual Sample Fidelity Index ($R_{f,i}$)

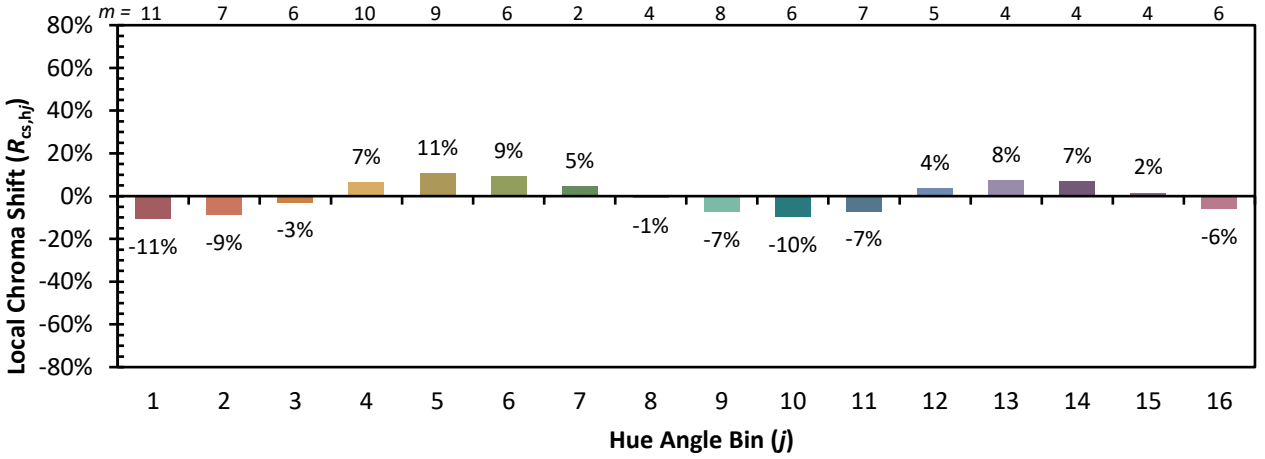
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

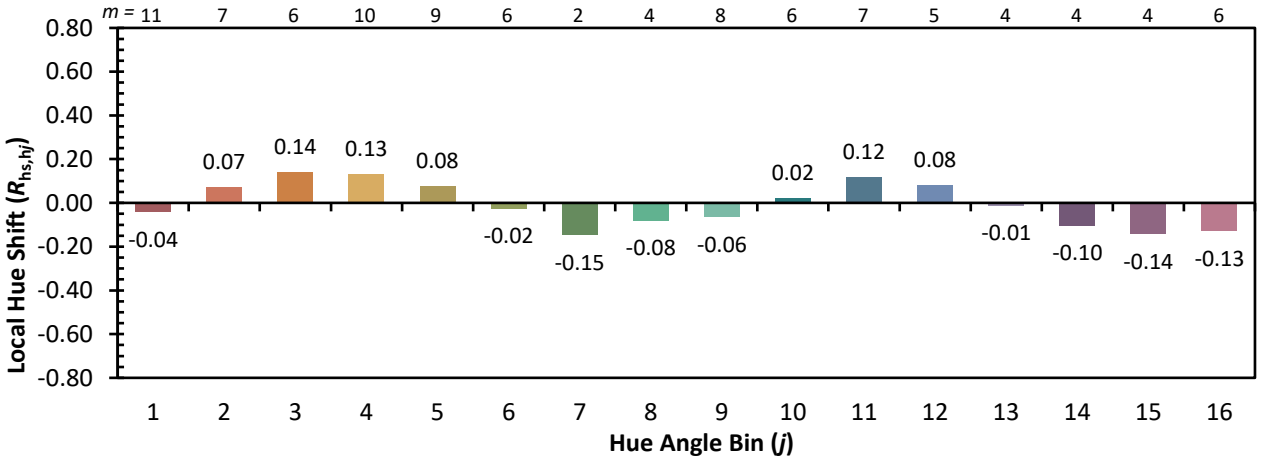


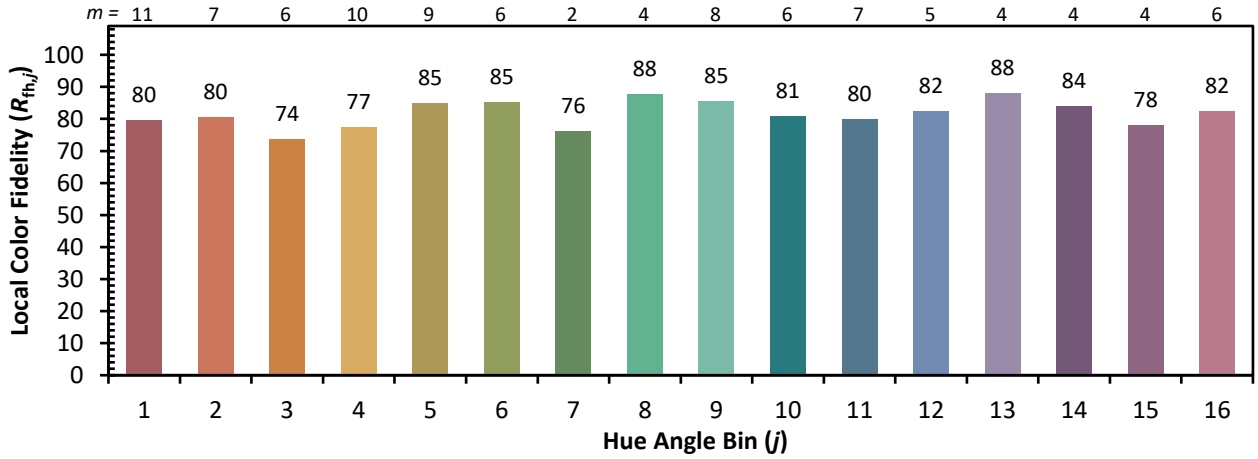
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Color Rendition by Hue-Angle Bin



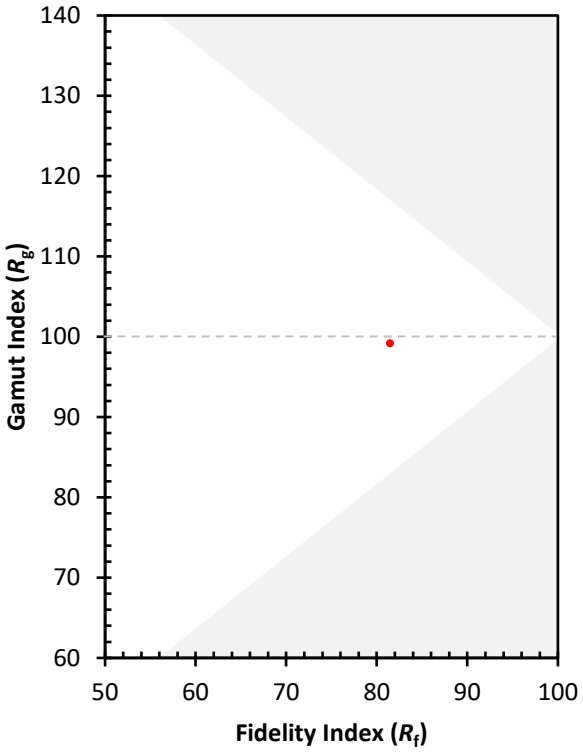


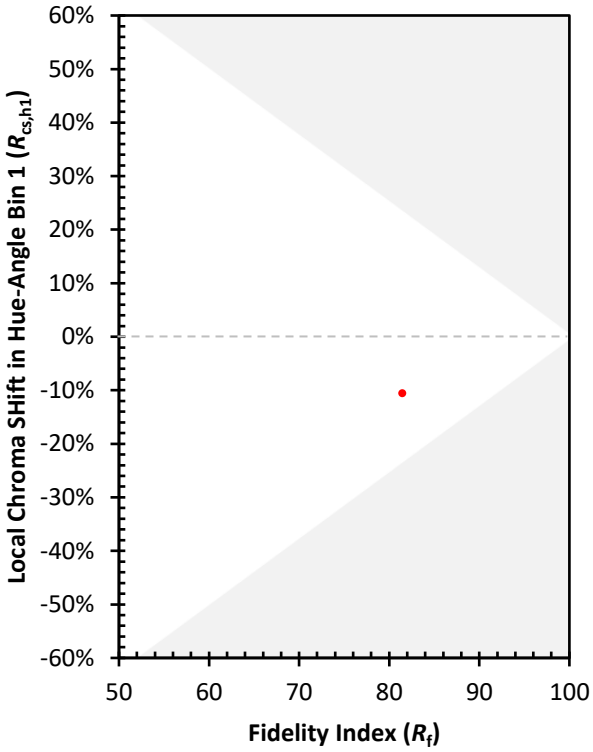


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Measure Comparisons





(END OF REPORT)