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: P1501581

Luminaire Tested: GSS-SB5A-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:	P1501581
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5A-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 143W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(130) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20736.7 lumens
Efficiency:	N/A
Efficacy:	145.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

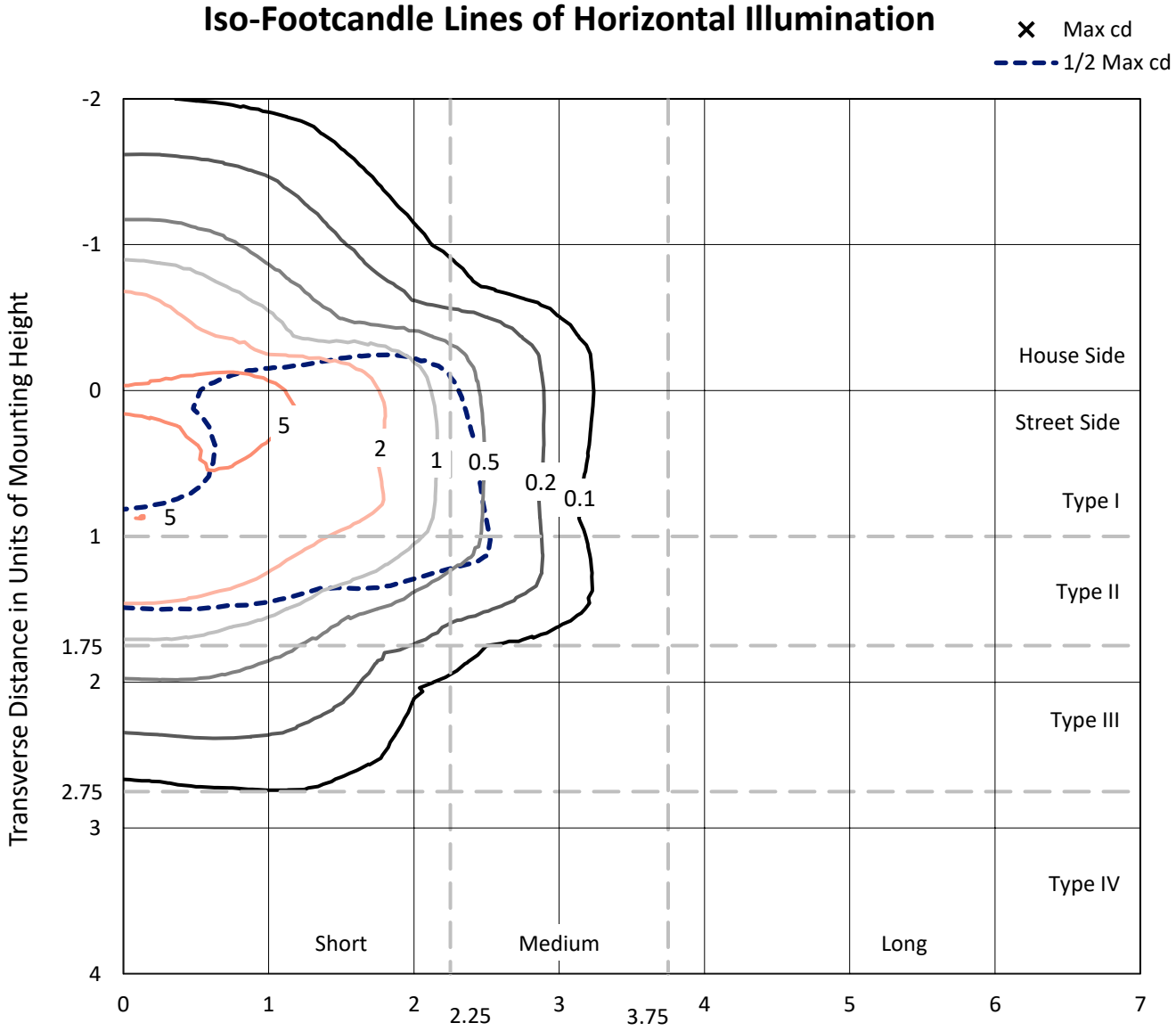
Input Watts (W):	143
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	10.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



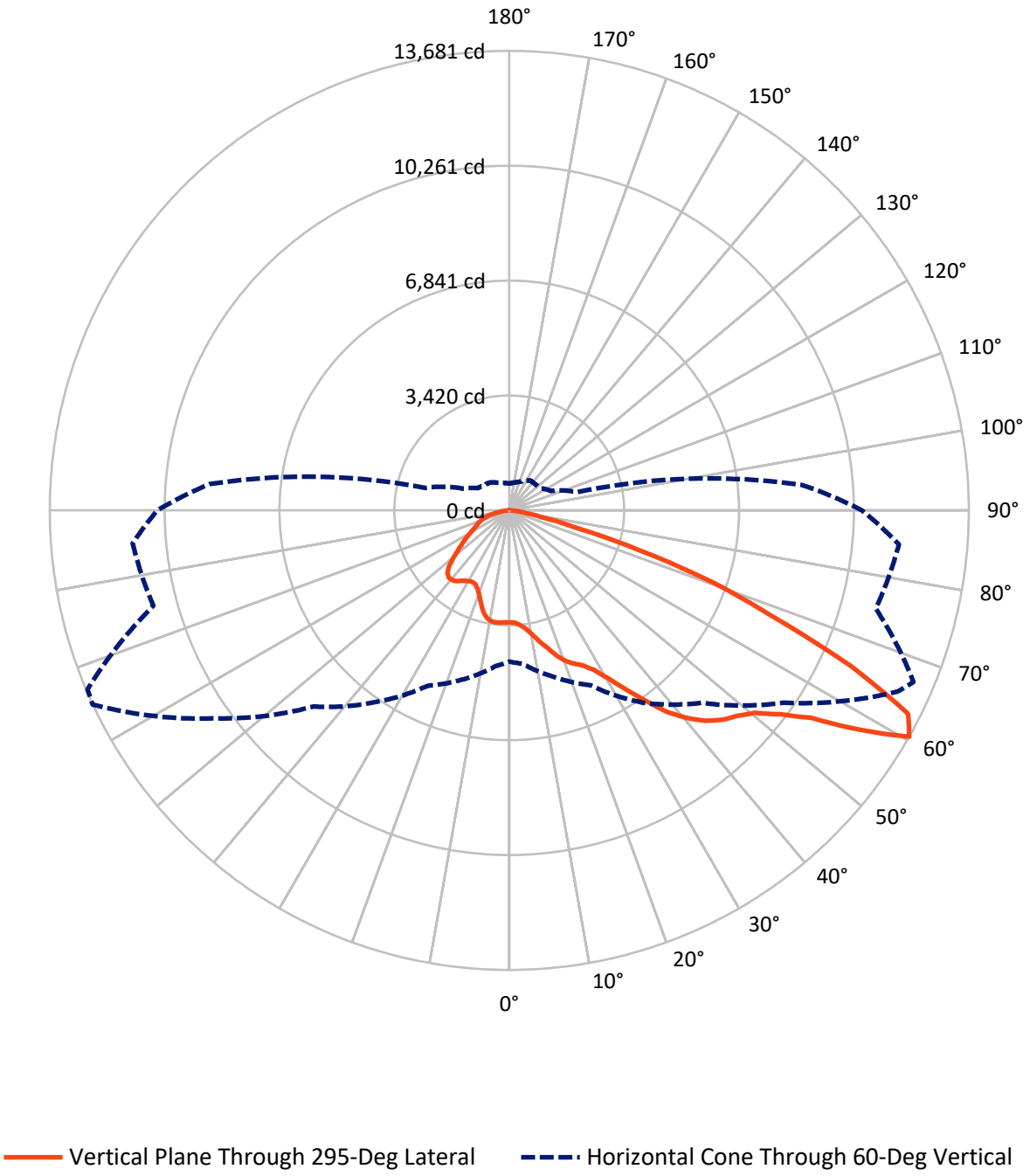
Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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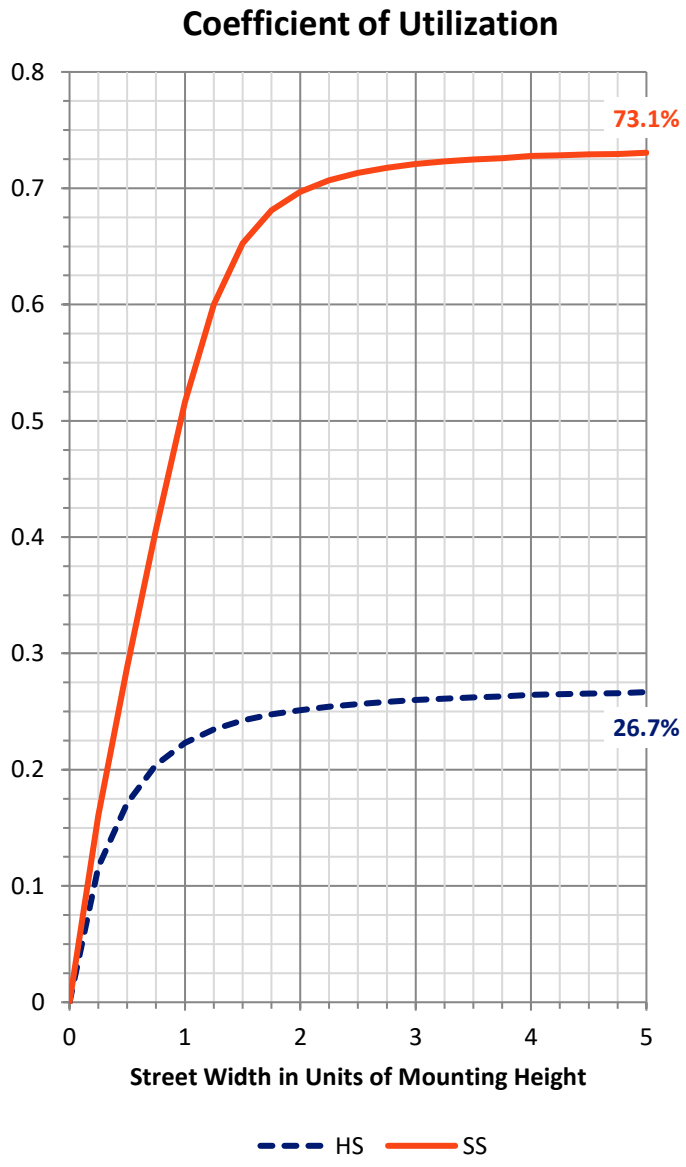
REPORT NUMBER: P1501581
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5576.4	0.0	5576.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15160.4	0.0	15160.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	20736.7	0.0	20736.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.5
10°-20°	901.8	4.3
20°-30°	1708.2	8.2
30°-40°	3011.4	14.5
40°-50°	4453.5	21.5
50°-60°	5229.6	25.2
60°-70°	3789.1	18.3
70°-80°	1168.5	5.6
80°-90°	160.9	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°	20736.7	100.0
0°-180°	20736.7	100.0



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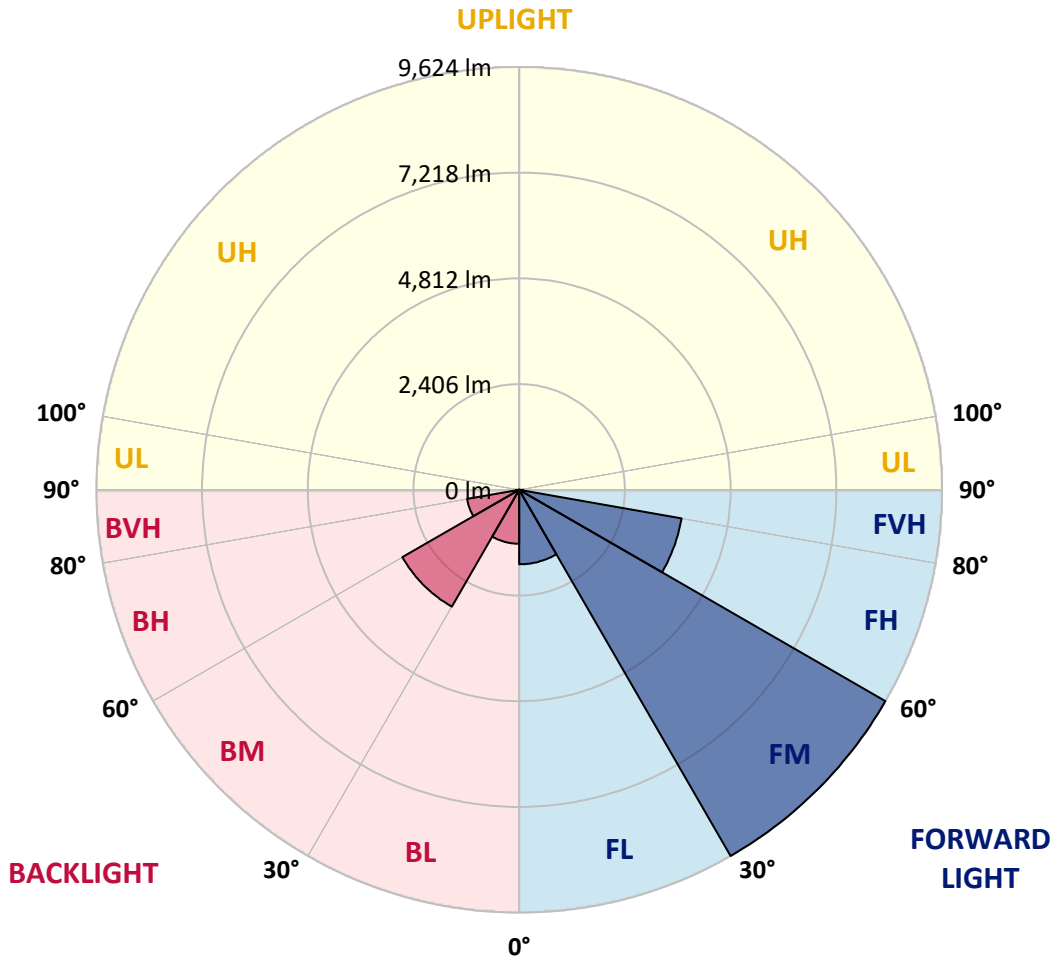
Scaled Data Report

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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°)	1695.6	8.2			
FM	(30°-60°)	9624.0	46.4			
FH	(60°-80°)	3754.0	18.1			G2/5000
FVH	(80°-90°)	86.8	0.4			G1/100
BL	(0°-30°)	1228.1	5.9	B3/2500		
BM	(30°-60°)	3070.5	14.8	B3/5000		
BH	(60°-80°)	1203.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	74.1	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°	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4
2.5°	3402.6	3412.1	3397.9	3407.3	3407.3	3393.2	3388.4	3369.5	3379.0	3374.2	3369.5
5°	3482.9	3487.7	3478.2	3492.4	3492.4	3497.1	3492.4	3468.8	3468.8	3468.8	3459.3
7.5°	3459.3	3459.3	3464.0	3511.3	3558.6	3620.0	3620.0	3610.5	3620.0	3615.3	3572.7
10°	3260.8	3279.7	3322.3	3440.4	3553.8	3686.2	3775.9	3804.3	3804.3	3809.0	3738.1
12.5°	2906.4	2920.6	3019.8	3199.4	3435.7	3676.7	3894.1	4035.9	4050.0	4073.7	3979.2
15°	2589.8	2599.2	2670.1	2854.4	3123.8	3549.1	3960.3	4253.3	4300.5	4399.8	4258.0
17.5°	2618.1	2613.4	2632.3	2703.2	2896.9	3341.2	3946.1	4508.4	4593.5	4768.4	4645.5
20°	2788.2	2788.2	2802.4	2816.6	2887.5	3189.9	3842.1	4716.4	4881.8	5222.0	5080.3
22.5°	3057.6	3057.6	3052.9	3076.5	3076.5	3256.1	3846.8	4872.3	5118.1	5727.7	5590.7
25°	3431.0	3412.1	3412.1	3421.5	3379.0	3506.6	3965.0	5033.0	5354.4	6327.9	6209.7
27.5°	3851.6	3865.7	3856.3	3823.2	3766.5	3865.7	4248.5	5283.5	5619.0	6961.2	6913.9
30°	4310.0	4314.7	4324.1	4305.2	4258.0	4328.9	4692.8	5661.6	5968.7	7622.8	7726.7
32.5°	4758.9	4825.1	4801.4	4754.2	4773.1	4900.7	5241.0	6171.9	6488.6	8237.1	8605.7
35°	5330.7	5354.4	5448.9	5274.0	5278.8	5496.1	5940.4	6843.0	7150.2	8875.1	9484.8
37.5°	6162.5	6205.0	6162.5	5888.4	5845.9	6148.3	6620.9	7504.6	7726.7	9357.2	10302.3
40°	6980.1	7032.0	7102.9	6781.6	6512.2	6762.7	7263.6	8010.3	8241.9	9621.8	10845.8
42.5°	7655.9	7740.9	7665.3	7570.8	7325.0	7372.3	7712.6	8402.5	8634.1	9957.3	11394.0
45°	8227.7	8241.9	8274.9	8208.8	8085.9	8043.4	8095.4	8747.5	9002.7	10108.6	11663.4
47.5°	8464.0	8525.4	8553.8	8667.2	8794.8	8709.7	8421.4	8908.2	9139.8	10099.1	11748.4
50°	8336.4	8397.8	8549.0	8818.4	9125.6	9276.8	8804.2	9130.3	9390.2	10269.2	11923.3
52.5°	8000.8	8067.0	8312.7	8619.9	9135.0	9480.0	9343.0	9593.4	9843.9	10571.7	12216.3
55°	7188.0	7287.2	7632.2	8142.6	8851.5	9371.3	9910.1	10274.0	10548.1	10935.6	12518.7
57.5°	6006.5	6110.5	6498.0	7263.6	8326.9	8922.4	10075.5	11549.9	11672.8	11370.4	12547.1
60°	*4499.0*	*4584.1*	*5132.3*	*5746.6*	*6994.2*	*8100.1*	*9981.0*	*12759.8*	*13071.7*	*11294.7*	*11644.5*
62.5°	3563.3	3667.2	4154.0	4437.6	5330.7	6691.8	9650.2	13095.3	13364.7	10670.9	10387.4
65°	2783.5	2854.4	3308.1	3714.5	3931.9	4569.9	8270.2	11455.4	11696.4	9654.9	8572.7
67.5°	1838.4	1947.0	2485.8	3043.4	3156.9	2906.4	5689.9	8813.7	8927.1	7674.8	6446.0
70°	1318.5	1370.5	1772.2	2367.6	2537.8	1947.0	3100.1	6672.9	6706.0	5151.2	4343.0
72.5°	897.9	907.4	1205.1	1814.7	2022.7	1413.0	1706.0	4395.0	4281.6	2542.5	2485.8
75°	609.6	619.1	770.3	1209.8	1431.9	983.0	1110.6	2396.0	2301.5	1403.6	1507.5
77.5°	411.1	420.6	529.3	812.8	954.6	680.5	812.8	1266.5	1242.9	931.0	808.1
80°	311.9	326.1	392.2	519.8	666.3	397.0	463.1	600.2	609.6	496.2	411.1
82.5°	174.9	193.8	236.3	264.6	430.1	222.1	222.1	359.2	345.0	307.2	222.1
85°	75.6	80.3	94.5	99.2	174.9	94.5	80.3	156.0	160.7	151.2	70.9
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	18.9	18.9	18.9	18.9
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°	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4
2.5°	3345.9	3374.2	3345.9	3331.7	3331.7	3308.1	3298.6	3298.6	3265.6	3279.7	3270.3
5°	3421.5	3431.0	3397.9	3355.3	3298.6	3251.4	3185.2	3100.1	3048.2	3043.4	3048.2
7.5°	3539.7	3544.4	3454.6	3360.1	3218.3	3048.2	2845.0	2679.5	2533.0	2509.4	2537.8
10°	3705.1	3695.6	3563.3	3341.2	3043.4	2684.3	2372.4	2221.1	2136.1	2131.4	2126.6
12.5°	3927.2	3865.7	3662.5	3260.8	2741.0	2325.1	2164.4	2155.0	2178.6	2197.5	2202.2
15°	4182.4	4102.0	3742.9	3104.9	2433.8	2192.8	2202.2	2282.6	2310.9	2329.8	2329.8
17.5°	4499.0	4395.0	3832.7	2882.8	2277.9	2221.1	2287.3	2362.9	2410.2	2429.1	2424.4
20°	4919.6	4702.2	3903.5	2670.1	2235.3	2268.4	2325.1	2400.7	2448.0	2471.6	2471.6
22.5°	5340.2	5070.8	3917.7	2523.6	2235.3	2273.1	2325.1	2400.7	2452.7	2476.3	2471.6
25°	5912.0	5543.4	3922.4	2419.6	2240.0	2249.5	2296.8	2362.9	2438.5	2462.2	2471.6
27.5°	6521.7	6063.2	3946.1	2396.0	2221.1	2216.4	2249.5	2310.9	2386.5	2448.0	2452.7
30°	7277.8	6649.3	3955.5	2419.6	2225.9	2164.4	2188.1	2249.5	2329.8	2391.3	2410.2
32.5°	8019.7	7192.7	3936.6	2471.6	2235.3	2131.4	2136.1	2173.9	2258.9	2301.5	2334.6
35°	8804.2	7769.3	3903.5	2542.5	2240.0	2117.2	2074.6	2093.5	2150.3	2155.0	2169.2
37.5°	9418.6	8199.3	3804.3	2637.0	2249.5	2065.2	1980.1	1965.9	1942.3	1895.1	1904.5
40°	9924.3	8487.6	3638.9	2684.3	2225.9	2003.8	1862.0	1795.8	1706.0	1635.1	1649.3
42.5°	10288.1	8681.4	3440.4	2693.7	2188.1	1899.8	1724.9	1611.5	1512.3	1436.7	1441.4
45°	10448.8	8662.5	3227.7	2622.8	2098.3	1772.2	1597.3	1488.6	1379.9	1299.6	1290.2
47.5°	10453.5	8478.2	2934.7	2452.7	1947.0	1625.7	1479.2	1361.0	1271.2	1214.5	1209.8
50°	10491.4	8374.2	2660.6	2207.0	1748.6	1469.7	1375.2	1257.1	1205.1	1124.7	1101.1
52.5°	10727.6	8544.3	2471.6	1937.6	1564.3	1356.3	1285.4	1181.5	1096.4	1044.4	1039.7
55°	11110.4	8837.3	2367.6	1734.4	1389.4	1247.6	1200.4	1110.6	1035.0	983.0	968.8
57.5°	11157.7	8988.5	2244.8	1545.3	1247.6	1162.6	1143.7	1044.4	935.7	897.9	883.7
60°	*10496.1*	*8733.3*	*2093.5*	*1370.5*	*1143.7*	*1096.4*	*1086.9*	*954.6*	*864.8*	*817.6*	*798.7*
62.5°	9593.4	8095.4	1862.0	1209.8	1063.3	1030.2	992.4	888.5	775.0	723.1	708.9
65°	7840.2	6805.2	1583.2	1101.1	983.0	945.2	935.7	793.9	718.3	690.0	685.2
67.5°	5940.4	5467.8	1394.1	1020.8	897.9	883.7	850.7	803.4	770.3	737.2	727.8
70°	4201.3	3946.1	1186.2	916.8	812.8	789.2	926.3	874.3	756.1	713.6	708.9
72.5°	2547.2	2476.3	1025.5	822.3	699.4	737.2	855.4	789.2	680.5	628.5	609.6
75°	1606.8	1469.7	860.1	699.4	557.6	600.2	746.7	704.1	586.0	534.0	519.8
77.5°	874.3	812.8	647.4	571.8	439.5	486.8	652.2	581.3	467.9	510.4	453.7
80°	382.8	425.3	430.1	330.8	293.0	359.2	467.9	453.7	359.2	363.9	302.5
82.5°	184.3	241.0	278.8	226.8	165.4	212.7	311.9	259.9	241.0	226.8	217.4
85°	56.7	89.8	122.9	108.7	75.6	89.8	146.5	141.8	170.1	146.5	137.0
87.5°	18.9	18.9	14.2	14.2	14.2	18.9	23.6	14.2	4.7	4.7	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°	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4
2.5°	3265.6	3270.3	3270.3	3275.0	3275.0	3289.2	3308.1	3327.0	3312.8	3331.7	3336.4
5°	3038.7	3062.3	3081.2	3152.1	3208.8	3256.1	3308.1	3355.3	3369.5	3379.0	3402.6
7.5°	2504.7	2570.9	2693.7	2854.4	3034.0	3208.8	3327.0	3449.9	3468.8	3492.4	3525.5
10°	2131.4	2159.7	2244.8	2410.2	2731.5	3076.5	3364.8	3558.6	3638.9	3686.2	3719.2
12.5°	2192.8	2173.9	2159.7	2183.3	2391.3	2835.5	3341.2	3714.5	3865.7	3917.7	3960.3
15°	2339.3	2320.4	2268.4	2202.2	2225.9	2580.3	3260.8	3861.0	4102.0	4187.1	4276.9
17.5°	2424.4	2405.5	2362.9	2292.0	2230.6	2367.6	3109.6	3993.3	4475.4	4579.3	4706.9
20°	2471.6	2452.7	2410.2	2339.3	2268.4	2287.3	2915.8	4158.7	4900.7	5066.1	5255.1
22.5°	2481.1	2457.4	2410.2	2339.3	2296.8	2282.6	2731.5	4258.0	5359.1	5614.3	5831.7
25°	2476.3	2433.8	2372.4	2320.4	2296.8	2292.0	2603.9	4314.7	5855.3	6261.7	6507.5
27.5°	2443.3	2391.3	2329.8	2292.0	2282.6	2310.9	2547.2	4380.9	6436.6	6956.4	7348.7
30°	2405.5	2329.8	2254.2	2240.0	2263.7	2353.5	2594.5	4404.5	7046.2	7712.6	8114.3
32.5°	2306.2	2249.5	2173.9	2169.2	2225.9	2386.5	2703.2	4371.4	7585.0	8468.7	8974.4
35°	2164.4	2131.4	2088.8	2103.0	2192.8	2414.9	2778.8	4267.4	8076.5	9172.8	9763.6
37.5°	1914.0	1937.6	1961.2	1994.3	2107.7	2410.2	2811.9	4102.0	8482.9	9735.2	10491.4
40°	1635.1	1715.5	1791.1	1876.2	2027.4	2372.4	2821.3	3898.8	8719.2	10160.5	11138.8
42.5°	1460.3	1535.9	1630.4	1753.3	1918.7	2287.3	2811.9	3672.0	8794.8	10453.5	11549.9
45°	1299.6	1389.4	1507.5	1635.1	1824.2	2164.4	2726.8	3426.2	8832.6	10590.6	11724.8
47.5°	1214.5	1266.5	1375.2	1502.8	1701.3	2013.2	2561.4	3246.6	8775.9	10619.0	11937.5
50°	1115.3	1186.2	1257.1	1379.9	1573.7	1824.2	2362.9	3142.7	8870.4	10897.8	12273.0
52.5°	1039.7	1077.5	1153.1	1266.5	1408.3	1649.3	2173.9	3057.6	9130.3	11181.3	12622.7
55°	983.0	1025.5	1072.8	1167.3	1276.0	1474.5	1980.1	2930.0	9432.8	11483.8	12972.4
57.5°	893.2	921.5	987.7	1086.9	1157.8	1304.3	1753.3	2778.8	9409.1	11247.5	12367.5
60°	*812.8*	*841.2*	*912.1*	*1011.3*	*1053.9*	*1153.1*	*1531.2*	*2585.0*	*8955.5*	*10477.2*	*11252.2*
62.5°	723.1	756.1	841.2	912.1	949.9	1025.5	1299.6	2230.6	8010.3	9319.3	9947.9
65°	685.2	704.1	760.9	845.9	841.2	912.1	1096.4	1753.3	6446.0	7121.8	7693.7
67.5°	727.8	756.1	746.7	770.3	756.1	793.9	983.0	1408.3	5066.1	5363.8	5694.6
70°	718.3	784.5	817.6	770.3	661.6	704.1	850.7	1124.7	3624.7	3596.4	3582.2
72.5°	628.5	694.7	789.2	836.5	647.4	586.0	737.2	973.5	2325.1	2315.7	2093.5
75°	534.0	581.3	694.7	756.1	557.6	472.6	633.3	827.0	1389.4	1408.3	1257.1
77.5°	491.5	467.9	581.3	666.3	453.7	363.9	510.4	623.8	765.6	775.0	718.3
80°	354.4	340.3	434.8	486.8	345.0	259.9	288.3	387.5	411.1	368.6	382.8
82.5°	226.8	231.6	259.9	311.9	212.7	141.8	198.5	259.9	222.1	179.6	212.7
85°	146.5	165.4	137.0	160.7	66.2	66.2	85.1	113.4	75.6	52.0	56.7
87.5°	0.0	0.0	9.5	18.9	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: P1501581
CATALOG NUMBER: GSS-SB5A-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3336.4	3336.4	*3336.4*	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4	3336.4
2.5°	3350.6	3345.9	*3345.9*	3355.3	3379.0	3388.4	3402.6	3397.9	3412.1	3402.6
5°	3416.8	3421.5	*3435.7*	3440.4	3454.6	3473.5	3478.2	3473.5	3482.9	3482.9
7.5°	3549.1	3568.0	*3558.6*	3582.2	3563.3	3539.7	3501.8	3473.5	3449.9	3459.3
10°	3771.2	3761.8	*3757.0*	3714.5	3629.4	3506.6	3407.3	3298.6	3279.7	3260.8
12.5°	4017.0	4007.5	*4007.5*	3861.0	3620.0	3364.8	3138.0	2967.8	2911.1	2906.4
15°	4361.9	4300.5	*4243.8*	3936.6	3454.6	3019.8	2755.2	2622.8	2589.8	2589.8
17.5°	4792.0	4631.3	*4536.8*	3879.9	3185.2	2793.0	2637.0	2603.9	2594.5	2618.1
20°	5326.0	4919.6	*4782.5*	3752.3	3086.0	2821.3	2745.7	2750.4	2755.2	2788.2
22.5°	5912.0	5184.2	*4957.4*	3752.3	3185.2	3000.9	2963.1	3015.1	3029.3	3057.6
25°	6564.2	5420.5	*5113.4*	3950.8	3478.2	3341.2	3293.9	3345.9	3383.7	3431.0
27.5°	7296.7	5666.3	*5382.7*	4310.0	3856.3	3771.2	3719.2	3742.9	3794.8	3851.6
30°	7953.6	6077.4	*5793.9*	4858.2	4371.4	4267.4	4177.6	4215.4	4272.2	4310.0
32.5°	8534.9	6578.4	*6337.3*	5434.7	4962.1	4782.5	4683.3	4673.9	4787.3	4758.9
35°	9068.9	7169.1	*6937.5*	6091.6	5562.3	5340.2	5207.9	5378.0	5302.4	5330.7
37.5°	9489.5	7783.5	*7599.1*	6720.1	6186.1	5883.7	5803.3	6011.3	6129.4	6162.5
40°	9834.5	8317.5	*8123.7*	7343.9	6757.9	6535.8	6663.4	7008.4	6994.2	6980.1
42.5°	10099.1	8775.9	*8563.2*	7816.5	7306.1	7348.7	7447.9	7679.5	7736.2	7655.9
45°	10217.3	9064.2	*8894.0*	8189.9	7930.0	8175.7	8218.2	8317.5	8279.7	8227.7
47.5°	10354.3	9319.3	*9139.8*	8530.1	8605.7	8846.8	8761.7	8681.4	8544.3	8464.0
50°	10585.9	9621.8	*9470.6*	9026.3	9300.4	9220.1	8889.3	8709.7	8430.9	8336.4
52.5°	11025.4	10193.6	*10080.2*	9810.8	9626.5	9163.4	8761.7	8440.3	8128.4	8000.8
55°	11417.6	10968.7	*10902.5*	10543.3	9527.3	8865.7	8326.9	7830.7	7296.7	7188.0
57.5°	11644.5	12254.1	*12329.7*	10855.2	9073.6	8189.9	7395.9	6602.0	6096.3	6006.5
60°	*10968.7*	*13643.5*	*13681.3*	*10793.8*	*8256.0*	*6970.6*	*5760.8*	*5198.4*	*4654.9*	*4499.0*
62.5°	10037.7	13355.2	*13322.1*	10425.2	6573.6	5085.0	4376.1	4111.5	3690.9	3563.3
65°	8629.4	11124.6	*11162.4*	9007.4	4371.4	3676.7	3676.7	3341.2	2873.3	2783.5
67.5°	7032.0	8577.4	*8492.3*	5841.1	2684.3	2944.2	3086.0	2603.9	1947.0	1838.4
70°	4569.9	6550.0	*6431.9*	3369.5	1687.1	2452.7	2429.1	1956.5	1394.1	1318.5
72.5°	1965.9	3785.4	*4026.4*	1720.2	1271.2	1975.4	1937.6	1370.5	931.0	897.9
75°	1186.2	1904.5	*2074.6*	1096.4	926.3	1488.6	1342.1	869.6	633.3	609.6
77.5°	751.4	1044.4	*1035.0*	822.3	694.7	1006.6	902.6	600.2	430.1	411.1
80°	434.8	515.1	*534.0*	515.1	467.9	718.3	576.6	434.8	335.5	311.9
82.5°	278.8	321.4	*326.1*	250.5	259.9	463.1	311.9	255.2	193.8	174.9
85°	122.9	137.0	*132.3*	85.1	85.1	189.0	108.7	104.0	75.6	75.6
87.5°	4.7	9.5	*4.7*	4.7	4.7	18.9	9.5	14.2	14.2	14.2
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

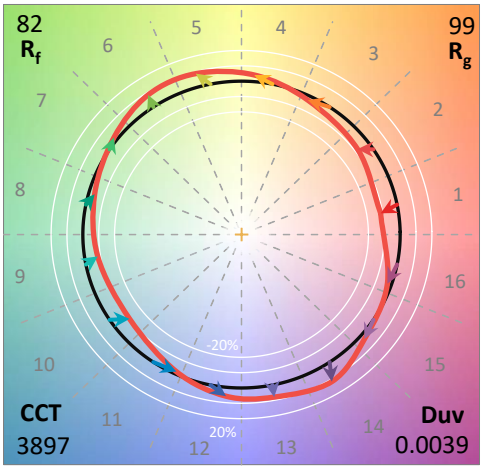
Test Information

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

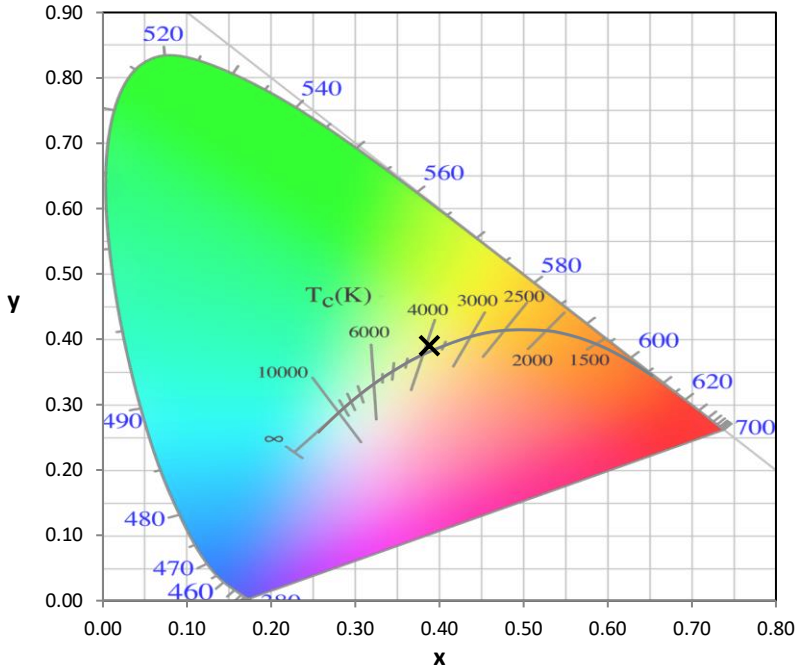
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

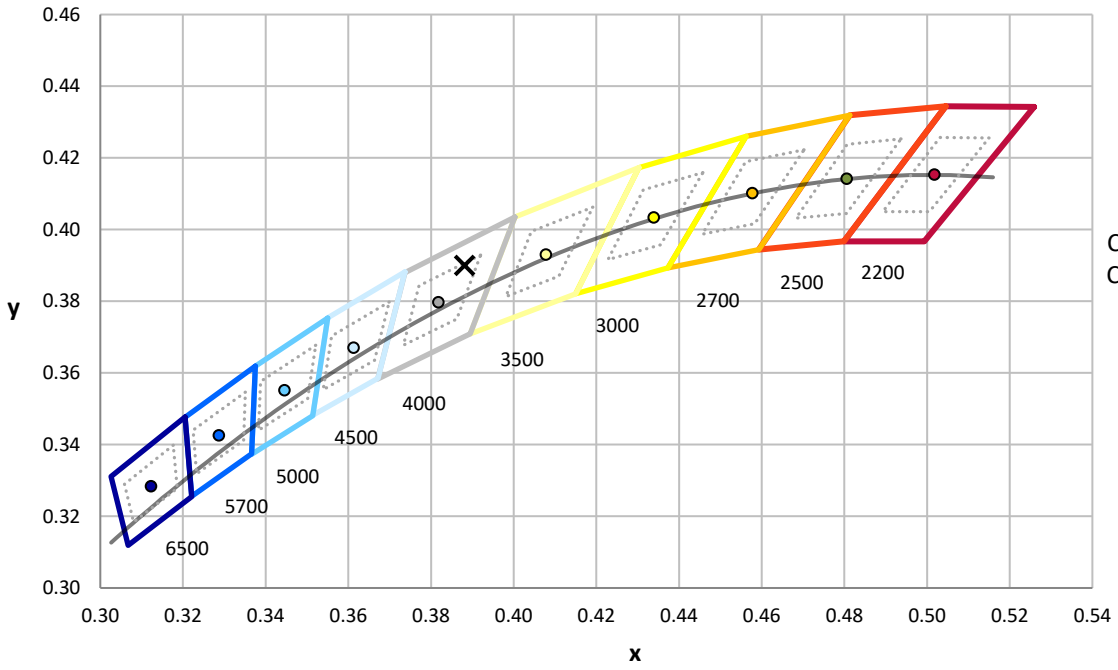
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

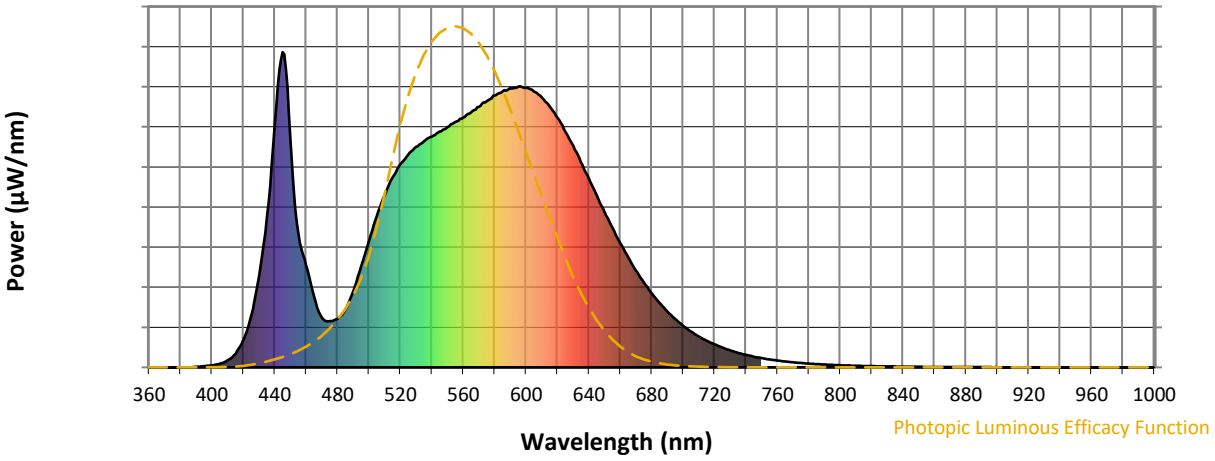


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

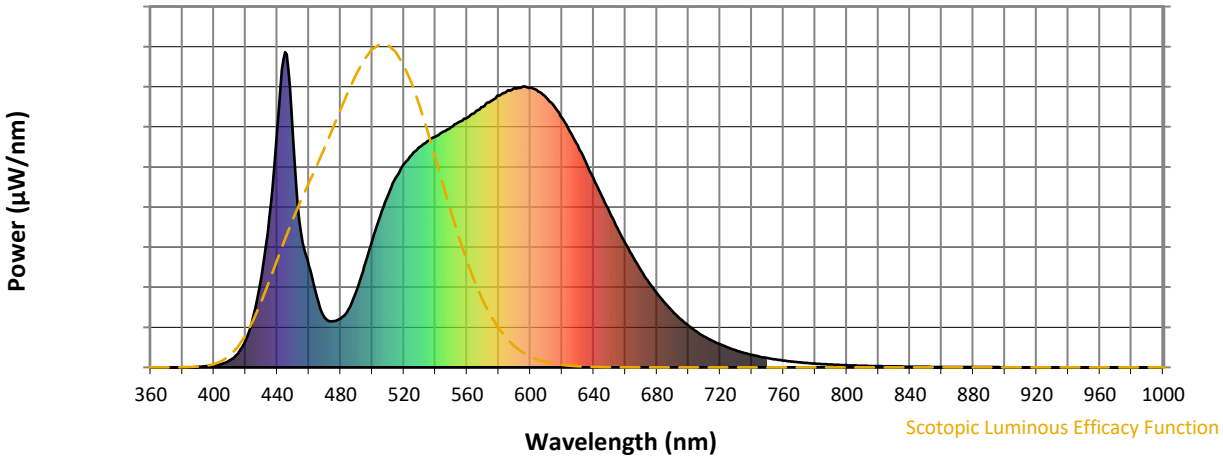


Photopic Lumens: NR

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

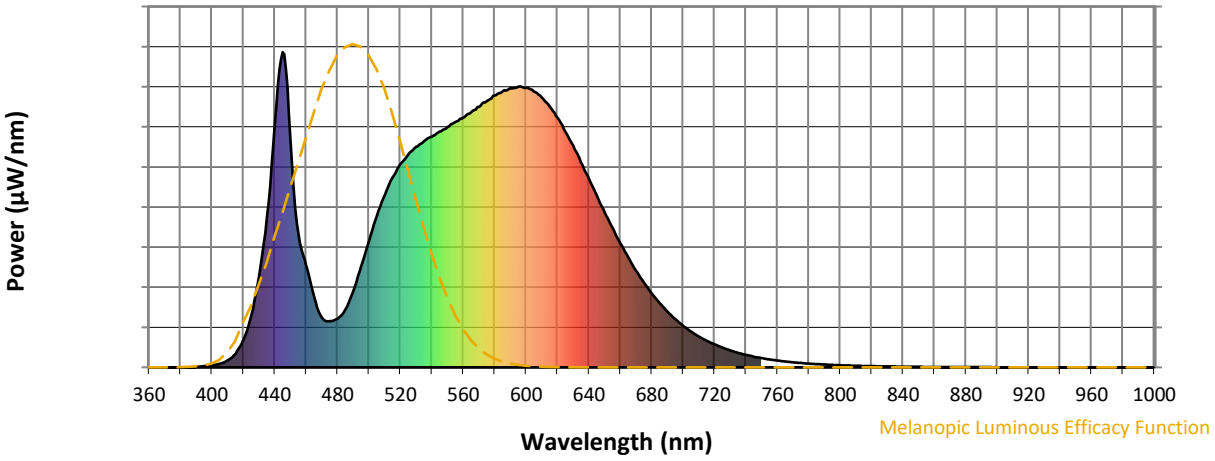


Scotopic Lumens: NR **S/P: 1.57**

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			

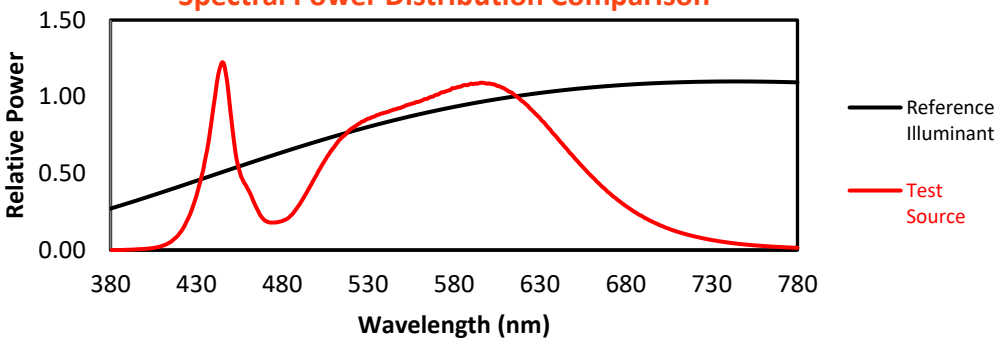
REPORT NUMBER: SP1-2407-184-11

TM-30-18

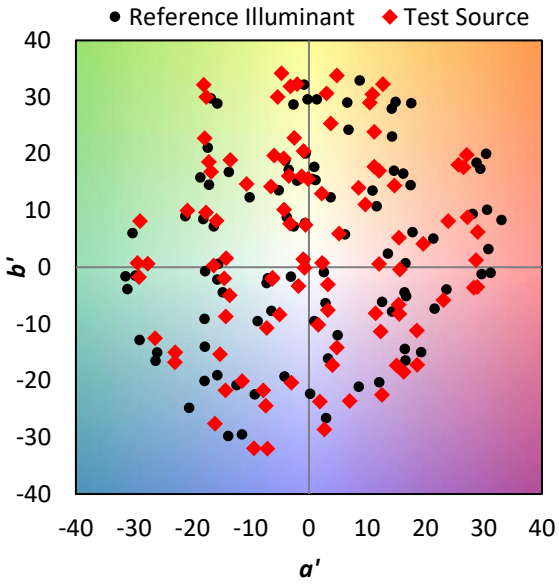
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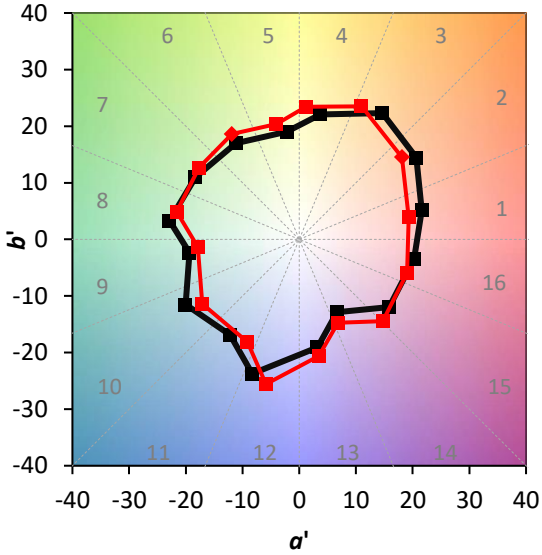
R_f = 81.8
R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

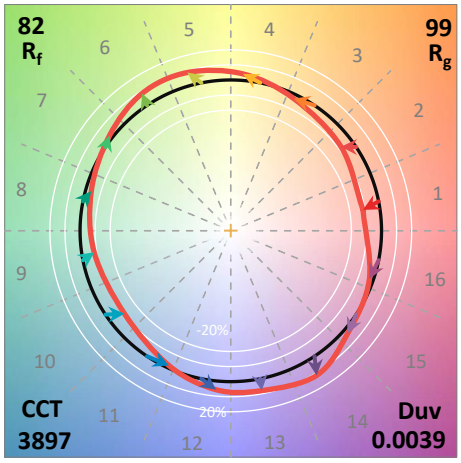
Spectral Power Distribution Comparison

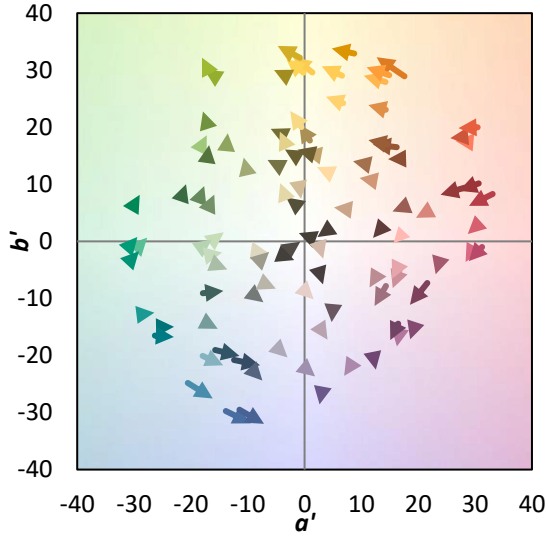


Color Vector Graphics







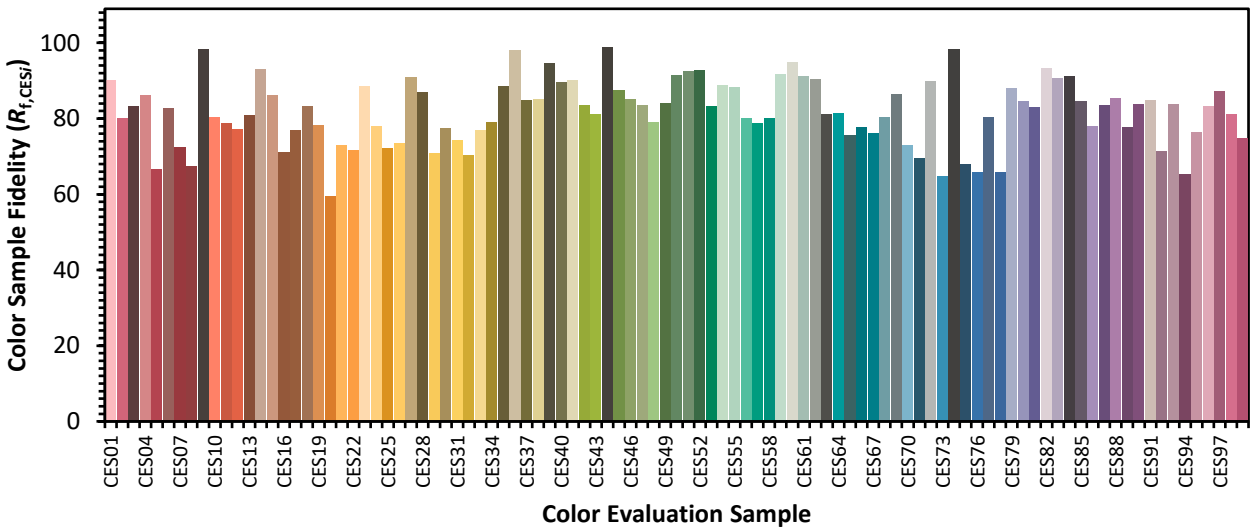


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Individual Sample Fidelity Index ($R_{f,i}$)

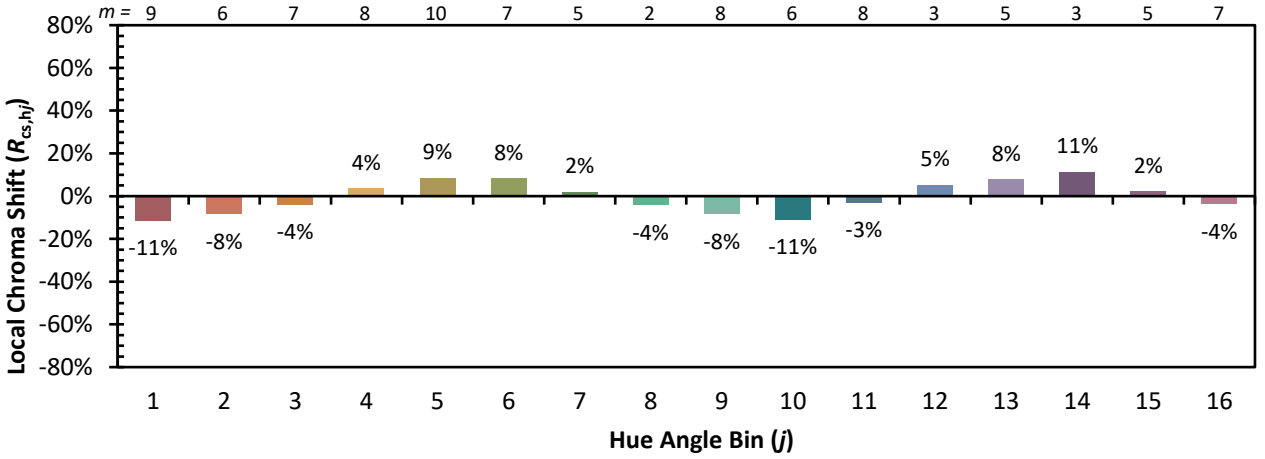
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 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	

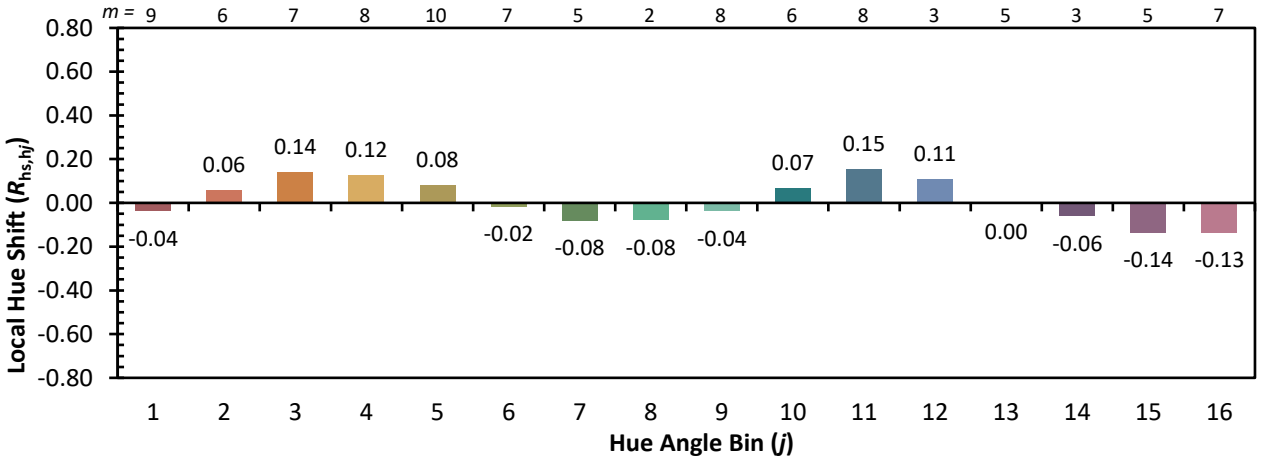


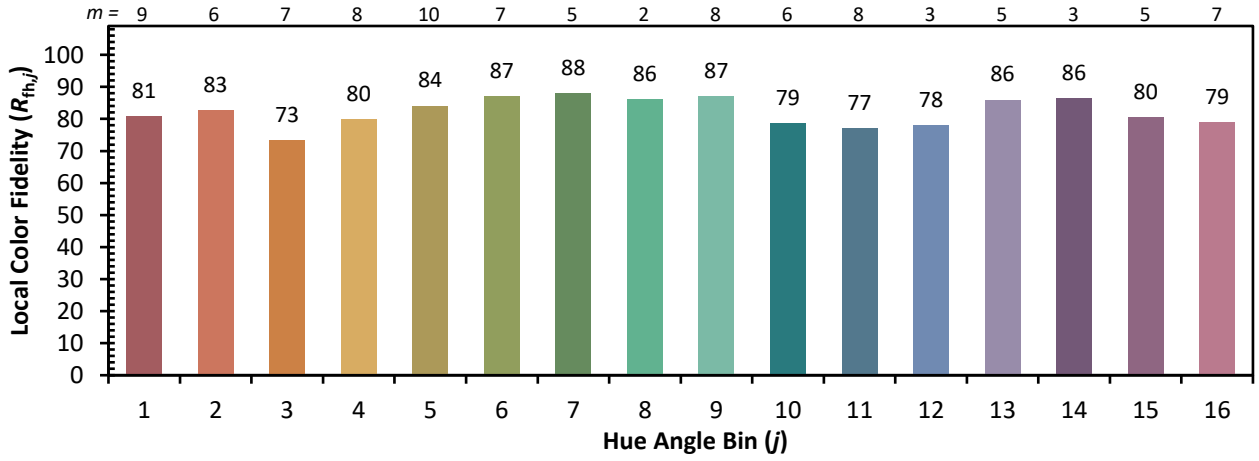
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Color Rendition by Hue-Angle Bin



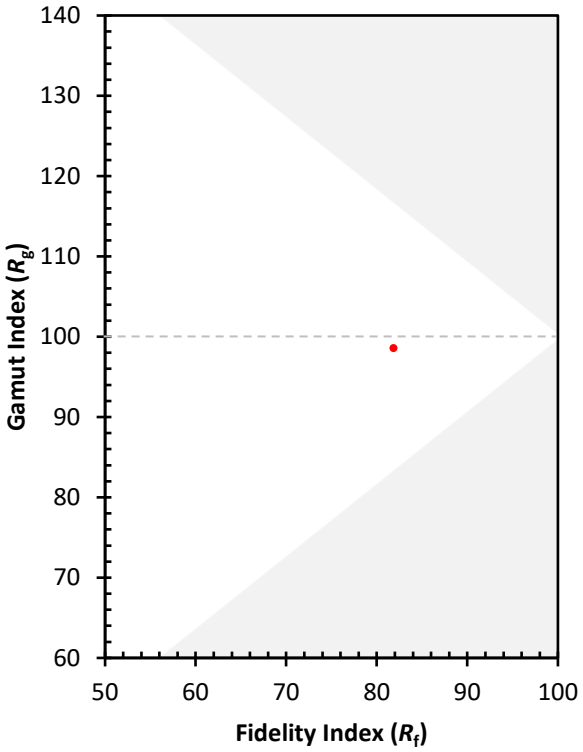


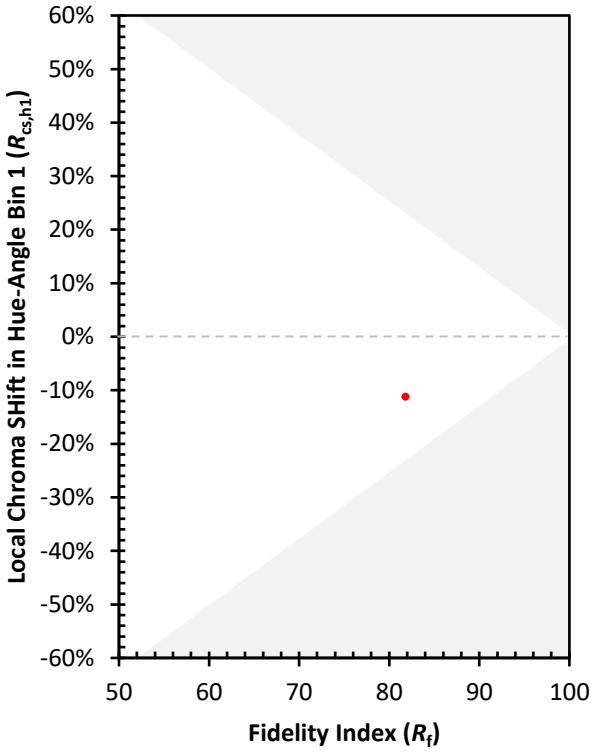


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Measure Comparisons





(END OF REPORT)