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: P1501531

Luminaire Tested: GSS-SB4C-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:	P1501531
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 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:	25899.1 lumens
Efficiency:	N/A
Efficacy:	127.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

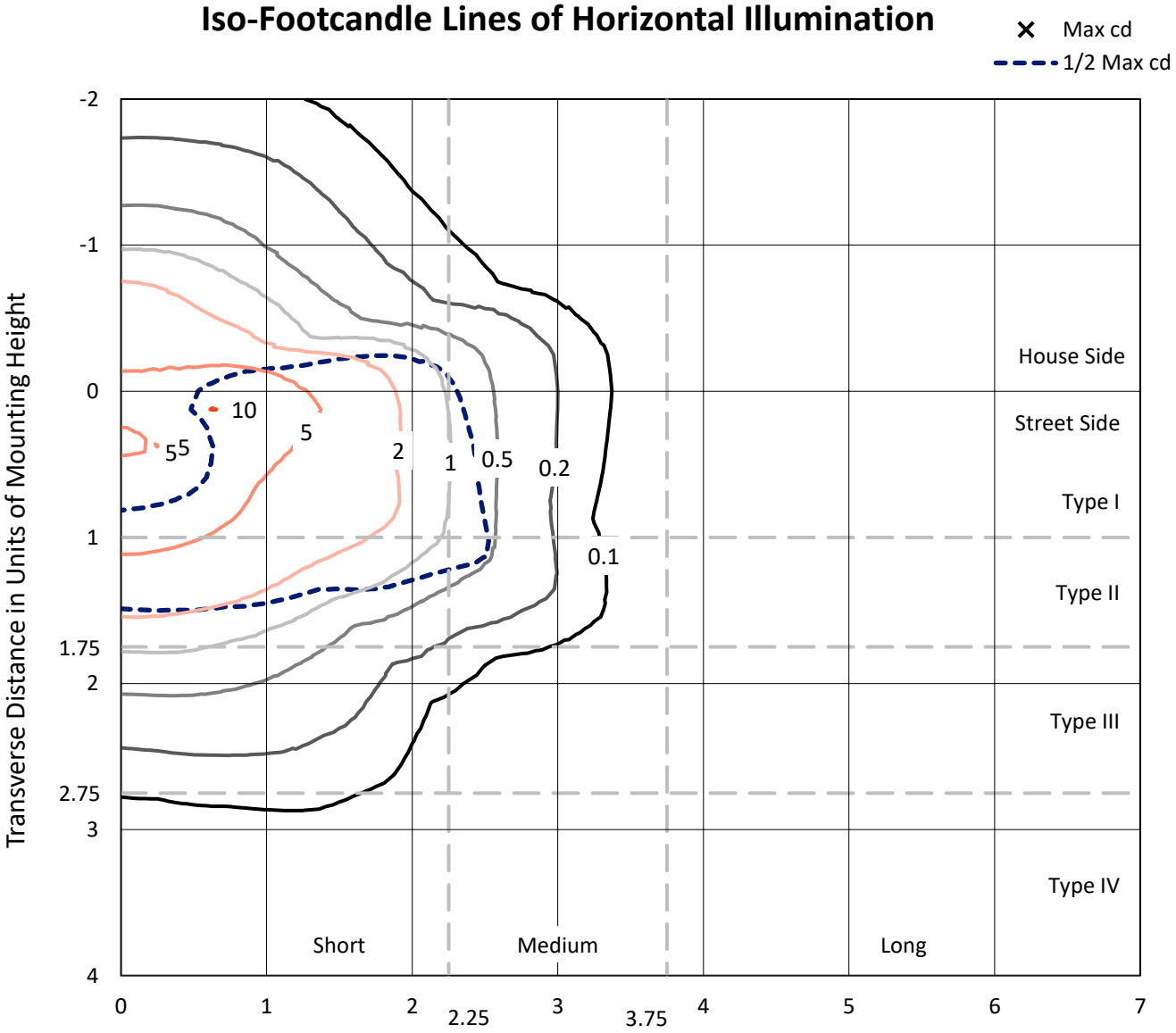
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



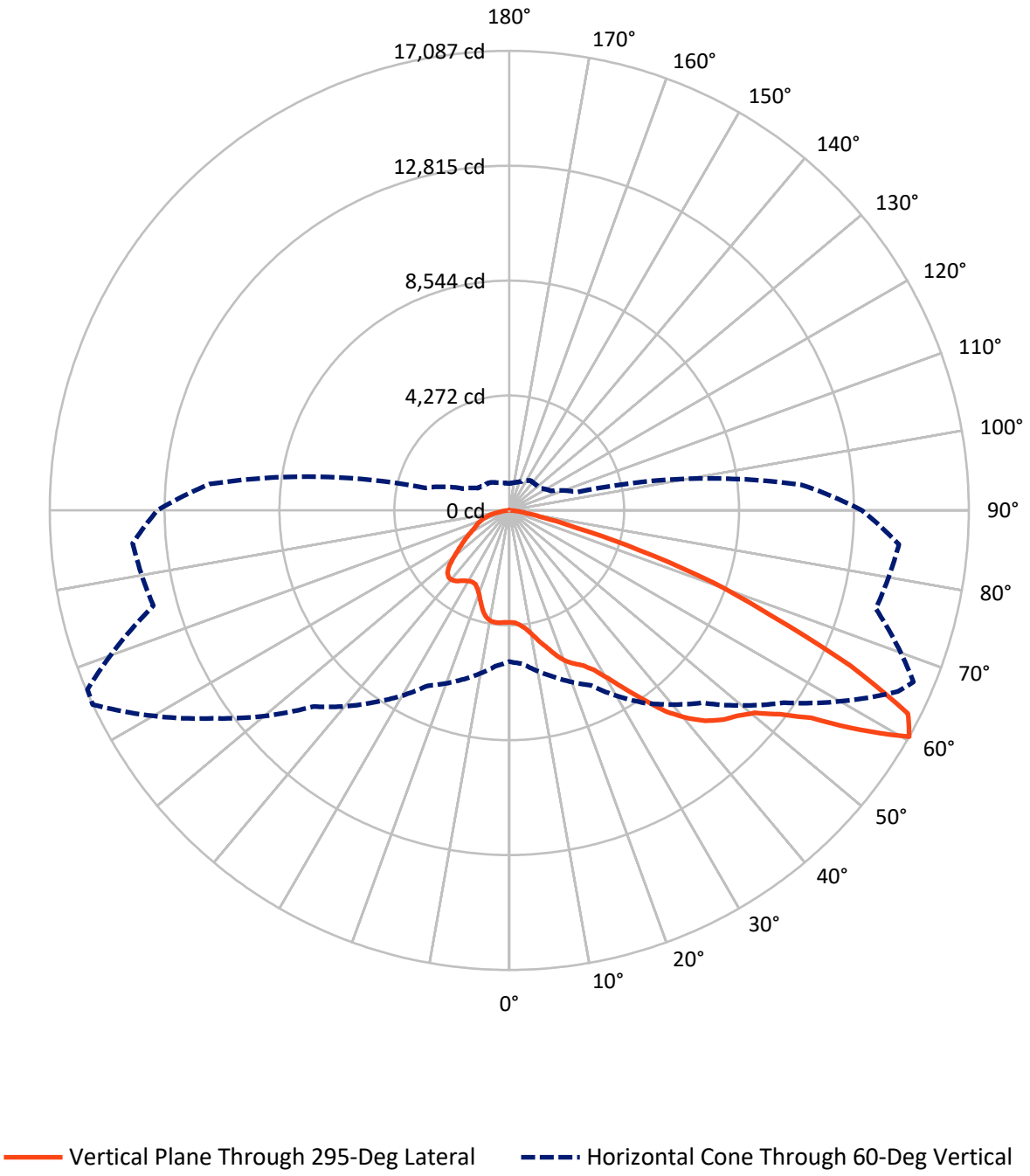
Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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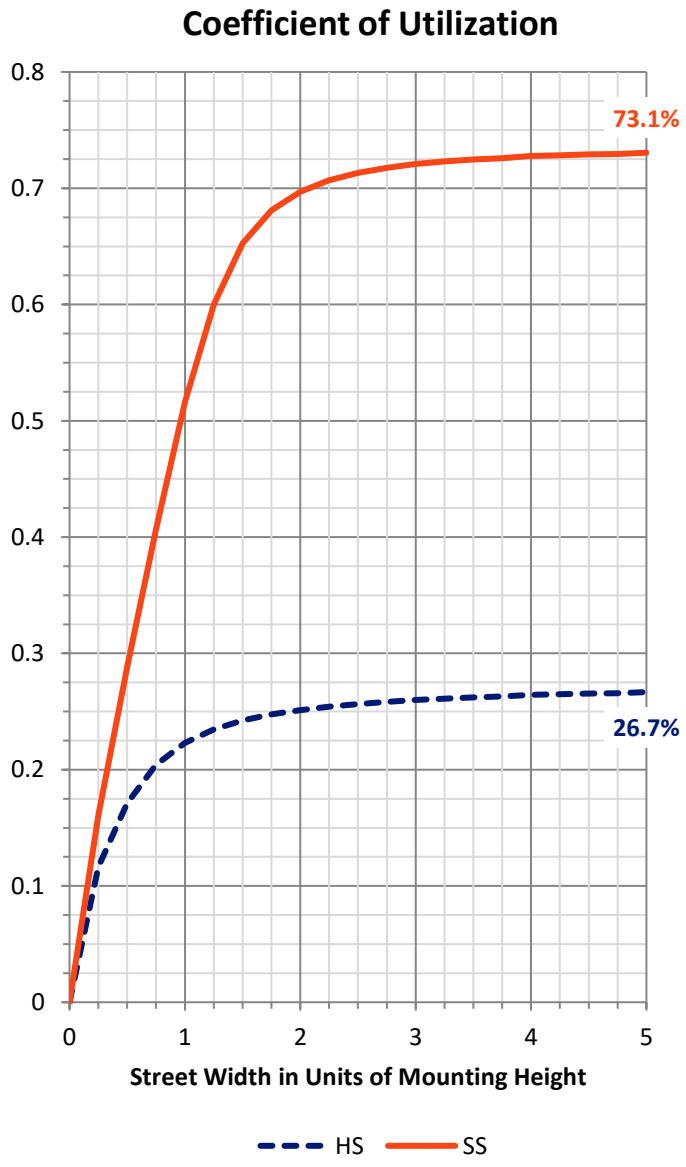
REPORT NUMBER: P1501531
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6964.6	0.0	6964.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18934.5	0.0	18934.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	25899.1	0.0	25899.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	1.5
10°-20°	1126.3	4.3
20°-30°	2133.4	8.2
30°-40°	3761.1	14.5
40°-50°	5562.2	21.5
50°-60°	6531.6	25.2
60°-70°	4732.4	18.3
70°-80°	1459.4	5.6
80°-90°	200.9	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°	25899.1	100.0
0°-180°	25899.1	100.0



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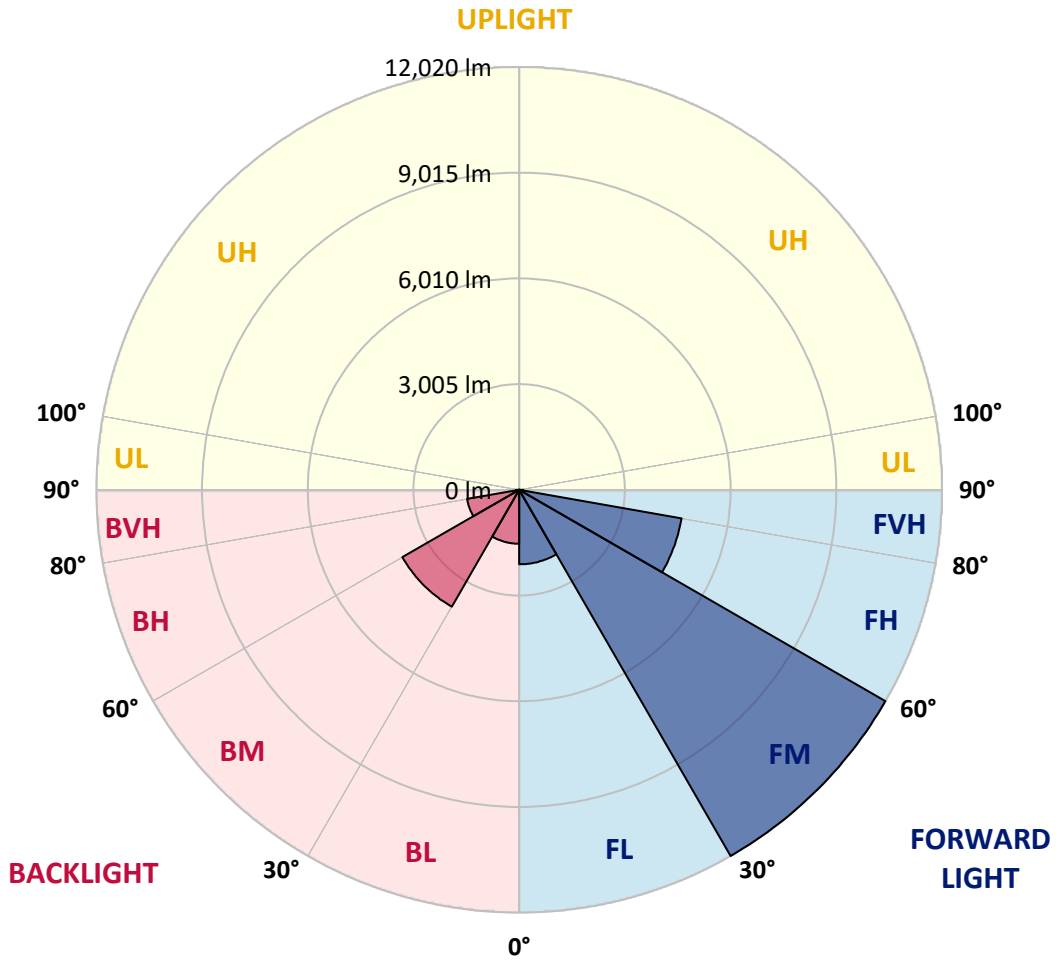
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2117.7	8.2			
FM	(30°-60°)	12019.9	46.4			
FH	(60°-80°)	4688.5	18.1			G2/5000
FVH	(80°-90°)	108.4	0.4			G2/225
BL	(0°-30°)	1533.8	5.9	B3/2500		
BM	(30°-60°)	3834.9	14.8	B3/5000		
BH	(60°-80°)	1503.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	92.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0
2.5°	4249.7	4261.5	4243.8	4255.6	4255.6	4237.9	4232.0	4208.4	4220.2	4214.3	4208.4
5°	4350.0	4355.9	4344.1	4361.8	4361.8	4367.7	4361.8	4332.3	4332.3	4332.3	4320.5
7.5°	4320.5	4320.5	4326.4	4385.4	4444.5	4521.2	4521.2	4509.4	4521.2	4515.3	4462.2
10°	4072.6	4096.2	4149.3	4296.9	4438.5	4603.8	4716.0	4751.4	4751.4	4757.3	4668.7
12.5°	3629.9	3647.6	3771.6	3995.9	4291.0	4592.0	4863.5	5040.6	5058.3	5087.8	4969.8
15°	3234.5	3246.3	3334.8	3565.0	3901.4	4432.6	4946.1	5312.1	5371.1	5495.1	5318.0
17.5°	3269.9	3264.0	3287.6	3376.1	3618.1	4172.9	4928.4	5630.8	5737.1	5955.4	5802.0
20°	3482.4	3482.4	3500.1	3517.8	3606.3	3984.1	4798.6	5890.5	6097.1	6522.1	6345.0
22.5°	3818.8	3818.8	3812.9	3842.4	3842.4	4066.7	4804.5	6085.3	6392.2	7153.6	6982.4
25°	4285.1	4261.5	4261.5	4273.3	4220.2	4379.5	4952.1	6286.0	6687.3	7903.2	7755.7
27.5°	4810.4	4828.1	4816.3	4775.0	4704.2	4828.1	5306.2	6598.8	7017.9	8694.1	8635.1
30°	5382.9	5388.8	5400.6	5377.0	5318.0	5406.5	5861.0	7071.0	7454.6	9520.4	9650.3
32.5°	5943.6	6026.3	5996.8	5937.7	5961.3	6120.7	6545.7	7708.4	8103.9	10287.8	10748.1
35°	6657.8	6687.3	6805.4	6587.0	6592.9	6864.4	7419.2	8546.6	8930.2	11084.6	11846.0
37.5°	7696.6	7749.8	7696.6	7354.3	7301.2	7678.9	8269.2	9372.9	9650.3	11686.6	12867.1
40°	8717.7	8782.7	8871.2	8469.8	8133.4	8446.2	9071.9	10004.4	10293.7	12017.1	13545.8
42.5°	9561.8	9668.0	9573.6	9455.5	9148.6	9207.6	9632.6	10494.3	10783.5	12436.2	14230.5
45°	10275.9	10293.7	10335.0	10252.3	10098.9	10045.8	10110.7	10925.2	11243.9	12625.1	14566.9
47.5°	10571.1	10647.8	10683.2	10824.9	10984.2	10878.0	10517.9	11125.9	11415.1	12613.3	14673.2
50°	10411.7	10488.4	10677.3	11013.7	11397.4	11586.3	10996.0	11403.3	11727.9	12825.8	14891.6
52.5°	9992.6	10075.3	10382.2	10765.8	11409.2	11840.1	11668.9	11981.7	12294.5	13203.5	15257.5
55°	8977.4	9101.4	9532.3	10169.7	11055.1	11704.3	12377.2	12831.7	13174.0	13658.0	15635.3
57.5°	7501.9	7631.7	8115.7	9071.9	10399.9	11143.6	12583.8	14425.3	14578.7	14201.0	15670.7
60°	*5619.0*	*5725.3*	*6409.9*	*7177.2*	*8735.4*	*10116.6*	*12465.7*	*15936.3*	*16325.8*	*14106.6*	*14543.3*
62.5°	4450.4	4580.2	5188.1	5542.3	6657.8	8357.7	12052.5	16355.3	16691.8	13327.4	12973.3
65°	3476.5	3565.0	4131.6	4639.2	4910.7	5707.5	10329.1	14307.2	14608.3	12058.4	10706.8
67.5°	2296.0	2431.8	3104.6	3801.1	3942.8	3629.9	7106.4	11007.8	11149.5	9585.4	8050.8
70°	1646.7	1711.7	2213.4	2957.1	3169.5	2431.8	3871.9	8334.1	8375.4	6433.5	5424.2
72.5°	1121.4	1133.2	1505.1	2266.5	2526.2	1764.8	2130.7	5489.2	5347.5	3175.5	3104.6
75°	761.4	773.2	962.1	1511.0	1788.4	1227.7	1387.0	2992.5	2874.4	1753.0	1882.8
77.5°	513.5	525.3	661.1	1015.2	1192.3	849.9	1015.2	1581.8	1552.3	1162.8	1009.3
80°	389.6	407.3	489.9	649.3	832.2	495.8	578.4	749.6	761.4	619.7	513.5
82.5°	218.4	242.0	295.1	330.5	537.1	277.4	277.4	448.6	430.9	383.7	277.4
85°	94.4	100.3	118.0	123.9	218.4	118.0	100.3	194.8	200.7	188.9	88.5
87.5°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23.6	23.6	23.6	23.6
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°	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0
2.5°	4178.8	4214.3	4178.8	4161.1	4161.1	4131.6	4119.8	4119.8	4078.5	4096.2	4084.4
5°	4273.3	4285.1	4243.8	4190.7	4119.8	4060.8	3978.2	3871.9	3807.0	3801.1	3807.0
7.5°	4420.8	4426.7	4314.6	4196.6	4019.5	3807.0	3553.2	3346.6	3163.6	3134.1	3169.5
10°	4627.4	4615.6	4450.4	4172.9	3801.1	3352.5	2963.0	2774.1	2667.9	2661.9	2656.0
12.5°	4904.8	4828.1	4574.3	4072.6	3423.3	2903.9	2703.3	2691.5	2721.0	2744.6	2750.5
15°	5223.6	5123.2	4674.6	3877.8	3039.7	2738.7	2750.5	2850.8	2886.2	2909.8	2909.8
17.5°	5619.0	5489.2	4786.8	3600.4	2844.9	2774.1	2856.7	2951.2	3010.2	3033.8	3027.9
20°	6144.3	5872.8	4875.3	3334.8	2791.8	2833.1	2903.9	2998.4	3057.4	3086.9	3086.9
22.5°	6669.6	6333.2	4893.0	3151.8	2791.8	2839.0	2903.9	2998.4	3063.3	3092.8	3086.9
25°	7383.8	6923.4	4898.9	3022.0	2797.7	2809.5	2868.5	2951.2	3045.6	3075.1	3086.9
27.5°	8145.2	7572.7	4928.4	2992.5	2774.1	2768.2	2809.5	2886.2	2980.7	3057.4	3063.3
30°	9089.6	8304.6	4940.2	3022.0	2780.0	2703.3	2732.8	2809.5	2909.8	2986.6	3010.2
32.5°	10016.2	8983.3	4916.6	3086.9	2791.8	2661.9	2667.9	2715.1	2821.3	2874.4	2915.7
35°	10996.0	9703.4	4875.3	3175.5	2797.7	2644.2	2591.1	2614.7	2685.6	2691.5	2709.2
37.5°	11763.3	10240.5	4751.4	3293.5	2809.5	2579.3	2473.1	2455.4	2425.9	2366.8	2378.6
40°	12394.9	10600.6	4544.8	3352.5	2780.0	2502.6	2325.5	2242.9	2130.7	2042.2	2059.9
42.5°	12849.4	10842.6	4296.9	3364.3	2732.8	2372.7	2154.3	2012.7	1888.7	1794.3	1800.2
45°	13050.0	10819.0	4031.3	3275.8	2620.6	2213.4	1995.0	1859.2	1723.5	1623.1	1611.3
47.5°	13055.9	10588.8	3665.3	3063.3	2431.8	2030.4	1847.4	1699.9	1587.7	1516.9	1511.0
50°	13103.2	10458.9	3323.0	2756.4	2183.9	1835.6	1717.6	1570.0	1505.1	1404.8	1375.2
52.5°	13398.3	10671.4	3086.9	2420.0	1953.7	1694.0	1605.4	1475.6	1369.3	1304.4	1298.5
55°	13876.4	11037.3	2957.1	2166.2	1735.3	1558.2	1499.2	1387.0	1292.6	1227.7	1210.0
57.5°	13935.4	11226.2	2803.6	1930.1	1558.2	1452.0	1428.4	1304.4	1168.7	1121.4	1103.7
60°	*13109.1*	*10907.5*	*2614.7*	*1711.7*	*1428.4*	*1369.3*	*1357.5*	*1192.3*	*1080.1*	*1021.1*	*997.5*
62.5°	11981.7	10110.7	2325.5	1511.0	1328.0	1286.7	1239.5	1109.6	968.0	903.1	885.3
65°	9792.0	8499.3	1977.3	1375.2	1227.7	1180.5	1168.7	991.6	897.2	861.7	855.8
67.5°	7419.2	6829.0	1741.2	1274.9	1121.4	1103.7	1062.4	1003.4	962.1	920.8	909.0
70°	5247.2	4928.4	1481.5	1145.1	1015.2	985.7	1156.9	1091.9	944.4	891.3	885.3
72.5°	3181.4	3092.8	1280.8	1027.0	873.5	920.8	1068.3	985.7	849.9	785.0	761.4
75°	2006.8	1835.6	1074.2	873.5	696.5	749.6	932.6	879.4	731.9	667.0	649.3
77.5°	1091.9	1015.2	808.6	714.2	548.9	607.9	814.5	726.0	584.3	637.5	566.6
80°	478.1	531.2	537.1	413.2	365.9	448.6	584.3	566.6	448.6	454.5	377.7
82.5°	230.2	301.0	348.2	283.3	206.6	265.6	389.6	324.6	301.0	283.3	271.5
85°	70.8	112.1	153.5	135.8	94.4	112.1	183.0	177.1	212.5	183.0	171.2
87.5°	23.6	23.6	17.7	17.7	17.7	23.6	29.5	17.7	5.9	5.9	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°	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0
2.5°	4078.5	4084.4	4084.4	4090.3	4090.3	4108.0	4131.6	4155.2	4137.5	4161.1	4167.0
5°	3795.2	3824.7	3848.3	3936.9	4007.7	4066.7	4131.6	4190.7	4208.4	4220.2	4249.7
7.5°	3128.2	3210.9	3364.3	3565.0	3789.3	4007.7	4155.2	4308.7	4332.3	4361.8	4403.1
10°	2661.9	2697.4	2803.6	3010.2	3411.5	3842.4	4202.5	4444.5	4544.8	4603.8	4645.1
12.5°	2738.7	2715.1	2697.4	2726.9	2986.6	3541.4	4172.9	4639.2	4828.1	4893.0	4946.1
15°	2921.7	2898.0	2833.1	2750.5	2780.0	3222.7	4072.6	4822.2	5123.2	5229.5	5341.6
17.5°	3027.9	3004.3	2951.2	2862.6	2785.9	2957.1	3883.7	4987.5	5589.5	5719.4	5878.7
20°	3086.9	3063.3	3010.2	2921.7	2833.1	2856.7	3641.7	5194.0	6120.7	6327.3	6563.4
22.5°	3098.7	3069.2	3010.2	2921.7	2868.5	2850.8	3411.5	5318.0	6693.2	7012.0	7283.5
25°	3092.8	3039.7	2963.0	2898.0	2868.5	2862.6	3252.2	5388.8	7313.0	7820.6	8127.5
27.5°	3051.5	2986.6	2909.8	2862.6	2850.8	2886.2	3181.4	5471.5	8039.0	8688.2	9178.1
30°	3004.3	2909.8	2815.4	2797.7	2827.2	2939.4	3240.4	5501.0	8800.4	9632.6	10134.3
32.5°	2880.3	2809.5	2715.1	2709.2	2780.0	2980.7	3376.1	5459.6	9473.2	10577.0	11208.5
35°	2703.3	2661.9	2608.8	2626.5	2738.7	3016.1	3470.6	5329.8	10087.1	11456.4	12194.2
37.5°	2390.4	2420.0	2449.5	2490.8	2632.4	3010.2	3511.9	5123.2	10594.7	12158.8	13103.2
40°	2042.2	2142.5	2237.0	2343.2	2532.1	2963.0	3523.7	4869.4	10889.8	12690.0	13911.8
42.5°	1823.8	1918.3	2036.3	2189.8	2396.3	2856.7	3511.9	4586.1	10984.2	13055.9	14425.3
45°	1623.1	1735.3	1882.8	2042.2	2278.3	2703.3	3405.6	4279.2	11031.4	13227.1	14643.7
47.5°	1516.9	1581.8	1717.6	1876.9	2124.8	2514.4	3199.1	4054.9	10960.6	13262.5	14909.3
50°	1392.9	1481.5	1570.0	1723.5	1965.5	2278.3	2951.2	3925.0	11078.7	13610.8	15328.3
52.5°	1298.5	1345.7	1440.2	1581.8	1758.9	2059.9	2715.1	3818.8	11403.3	13964.9	15765.1
55°	1227.7	1280.8	1339.8	1457.9	1593.6	1841.5	2473.1	3659.4	11781.0	14342.6	16201.9
57.5°	1115.5	1151.0	1233.6	1357.5	1446.1	1629.0	2189.8	3470.6	11751.5	14047.5	15446.4
60°	*1015.2*	*1050.6*	*1139.1*	*1263.1*	*1316.2*	*1440.2*	*1912.4*	*3228.6*	*11184.9*	*13085.5*	*14053.4*
62.5°	903.1	944.4	1050.6	1139.1	1186.4	1280.8	1623.1	2785.9	10004.4	11639.4	12424.4
65°	855.8	879.4	950.3	1056.5	1050.6	1139.1	1369.3	2189.8	8050.8	8894.8	9609.0
67.5°	909.0	944.4	932.6	962.1	944.4	991.6	1227.7	1758.9	6327.3	6699.1	7112.3
70°	897.2	979.8	1021.1	962.1	826.3	879.4	1062.4	1404.8	4527.1	4491.7	4474.0
72.5°	785.0	867.6	985.7	1044.7	808.6	731.9	920.8	1215.9	2903.9	2892.1	2614.7
75°	667.0	726.0	867.6	944.4	696.5	590.2	790.9	1032.9	1735.3	1758.9	1570.0
77.5°	613.8	584.3	726.0	832.2	566.6	454.5	637.5	779.1	956.2	968.0	897.2
80°	442.7	425.0	543.0	607.9	430.9	324.6	360.0	484.0	513.5	460.4	478.1
82.5°	283.3	289.2	324.6	389.6	265.6	177.1	247.9	324.6	277.4	224.3	265.6
85°	183.0	206.6	171.2	200.7	82.6	82.6	106.2	141.7	94.4	64.9	70.8
87.5°	0.0	0.0	11.8	23.6	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: P1501531
CATALOG NUMBER: GSS-SB4C-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4167.0	4167.0	*4167.0*	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0	4167.0
2.5°	4184.7	4178.8	*4178.8*	4190.7	4220.2	4232.0	4249.7	4243.8	4261.5	4249.7
5°	4267.4	4273.3	*4291.0*	4296.9	4314.6	4338.2	4344.1	4338.2	4350.0	4350.0
7.5°	4432.6	4456.3	*4444.5*	4474.0	4450.4	4420.8	4373.6	4338.2	4308.7	4320.5
10°	4710.1	4698.3	*4692.3*	4639.2	4533.0	4379.5	4255.6	4119.8	4096.2	4072.6
12.5°	5017.0	5005.2	*5005.2*	4822.2	4521.2	4202.5	3919.1	3706.7	3635.8	3629.9
15°	5447.8	5371.1	*5300.3*	4916.6	4314.6	3771.6	3441.1	3275.8	3234.5	3234.5
17.5°	5985.0	5784.3	*5666.2*	4845.8	3978.2	3488.3	3293.5	3252.2	3240.4	3269.9
20°	6651.9	6144.3	*5973.2*	4686.4	3854.2	3523.7	3429.3	3435.2	3441.1	3482.4
22.5°	7383.8	6474.8	*6191.5*	4686.4	3978.2	3748.0	3700.8	3765.7	3783.4	3818.8
25°	8198.3	6770.0	*6386.3*	4934.3	4344.1	4172.9	4113.9	4178.8	4226.1	4285.1
27.5°	9113.2	7076.9	*6722.7*	5382.9	4816.3	4710.1	4645.1	4674.6	4739.6	4810.4
30°	9933.6	7590.4	*7236.2*	6067.6	5459.6	5329.8	5217.7	5264.9	5335.7	5382.9
32.5°	10659.6	8216.0	*7915.0*	6787.7	6197.4	5973.2	5849.2	5837.4	5979.1	5943.6
35°	11326.6	8953.8	*8664.6*	7608.1	6947.0	6669.6	6504.4	6716.8	6622.4	6657.8
37.5°	11851.9	9721.1	*9490.9*	8393.1	7726.1	7348.4	7248.1	7507.8	7655.3	7696.6
40°	12282.7	10388.1	*10146.1*	9172.2	8440.3	8162.9	8322.3	8753.1	8735.4	8717.7
42.5°	12613.3	10960.6	*10695.0*	9762.4	9125.0	9178.1	9302.1	9591.3	9662.1	9561.8
45°	12760.8	11320.7	*11108.2*	10228.7	9904.1	10211.0	10264.1	10388.1	10340.9	10275.9
47.5°	12932.0	11639.4	*11415.1*	10653.7	10748.1	11049.2	10942.9	10842.6	10671.4	10571.1
50°	13221.2	12017.1	*11828.3*	11273.4	11615.8	11515.4	11102.3	10878.0	10529.7	10411.7
52.5°	13770.1	12731.3	*12589.7*	12253.2	12023.0	11444.6	10942.9	10541.6	10152.0	9992.6
55°	14260.0	13699.3	*13616.7*	13168.1	11899.1	11072.8	10399.9	9780.2	9113.2	8977.4
57.5°	14543.3	15304.7	*15399.2*	13557.6	11332.5	10228.7	9237.1	8245.5	7614.0	7501.9
60°	*13699.3*	*17040.0*	*17087.2*	*13480.9*	*10311.4*	*8705.9*	*7194.9*	*6492.6*	*5813.8*	*5619.0*
62.5°	12536.5	16680.0	*16638.7*	13020.5	8210.1	6350.9	5465.6	5135.0	4609.7	4450.4
65°	10777.6	13894.1	*13941.3*	11249.8	5459.6	4592.0	4592.0	4172.9	3588.6	3476.5
67.5°	8782.7	10712.7	*10606.5*	7295.3	3352.5	3677.1	3854.2	3252.2	2431.8	2296.0
70°	5707.5	8180.6	*8033.1*	4208.4	2107.1	3063.3	3033.8	2443.6	1741.2	1646.7
72.5°	2455.4	4727.8	*5028.8*	2148.4	1587.7	2467.2	2420.0	1711.7	1162.8	1121.4
75°	1481.5	2378.6	*2591.1*	1369.3	1156.9	1859.2	1676.3	1086.0	790.9	761.4
77.5°	938.5	1304.4	*1292.6*	1027.0	867.6	1257.2	1127.3	749.6	537.1	513.5
80°	543.0	643.4	*667.0*	643.4	584.3	897.2	720.1	543.0	419.1	389.6
82.5°	348.2	401.4	*407.3*	312.8	324.6	578.4	389.6	318.7	242.0	218.4
85°	153.5	171.2	*165.3*	106.2	106.2	236.1	135.8	129.9	94.4	94.4
87.5°	5.9	11.8	*5.9*	5.9	5.9	23.6	11.8	17.7	17.7	17.7
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

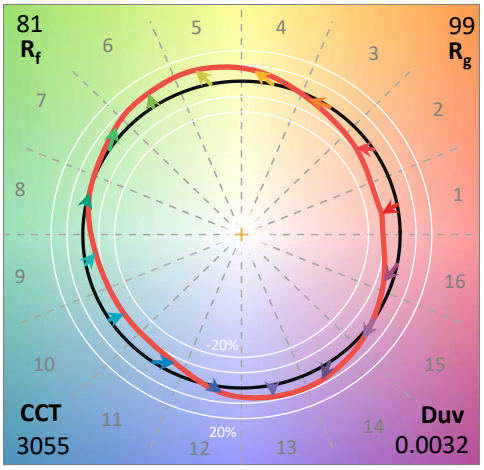
Test Information

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

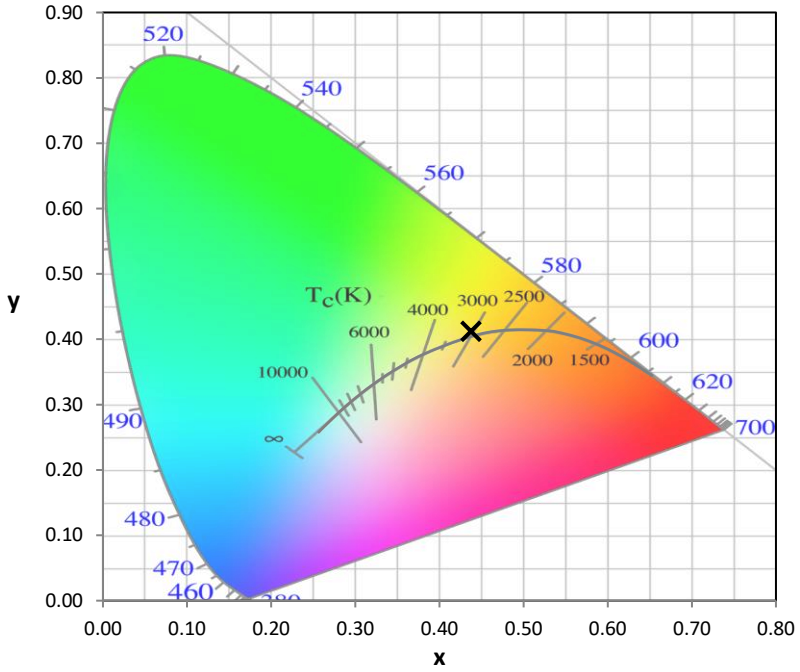
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

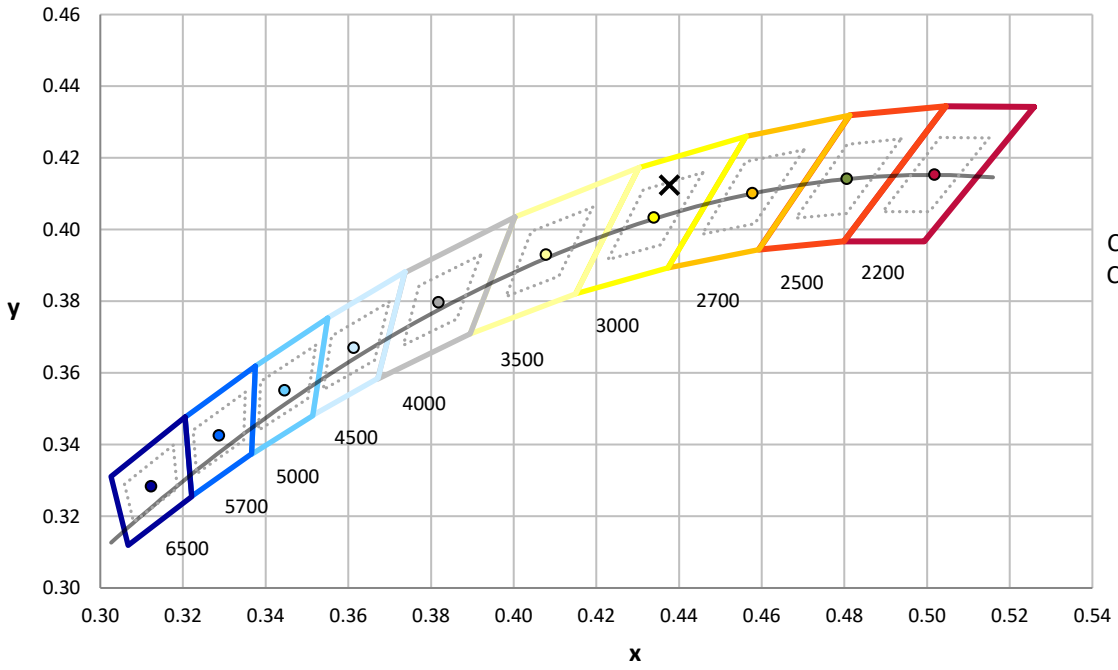
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

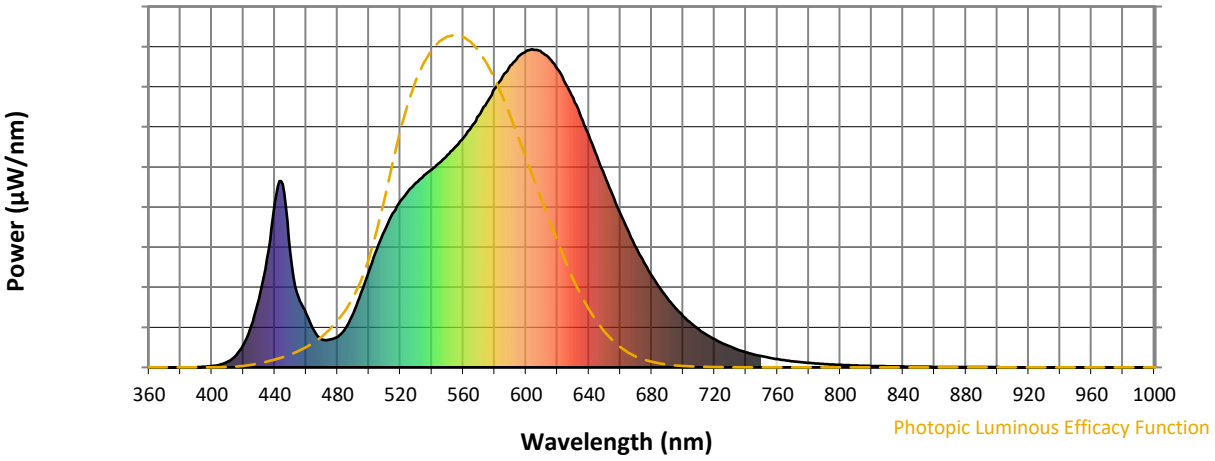


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

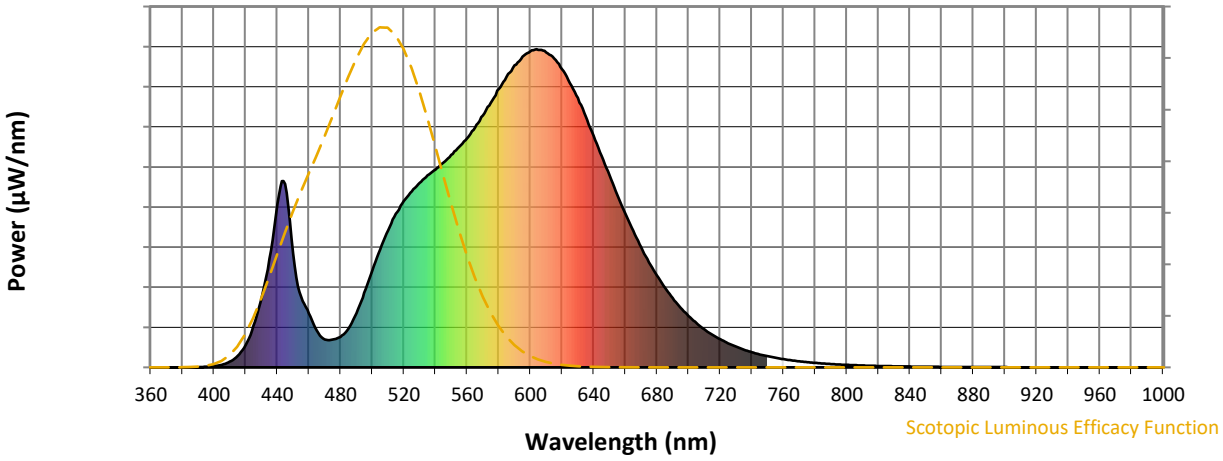


Photopic Lumens: NR

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

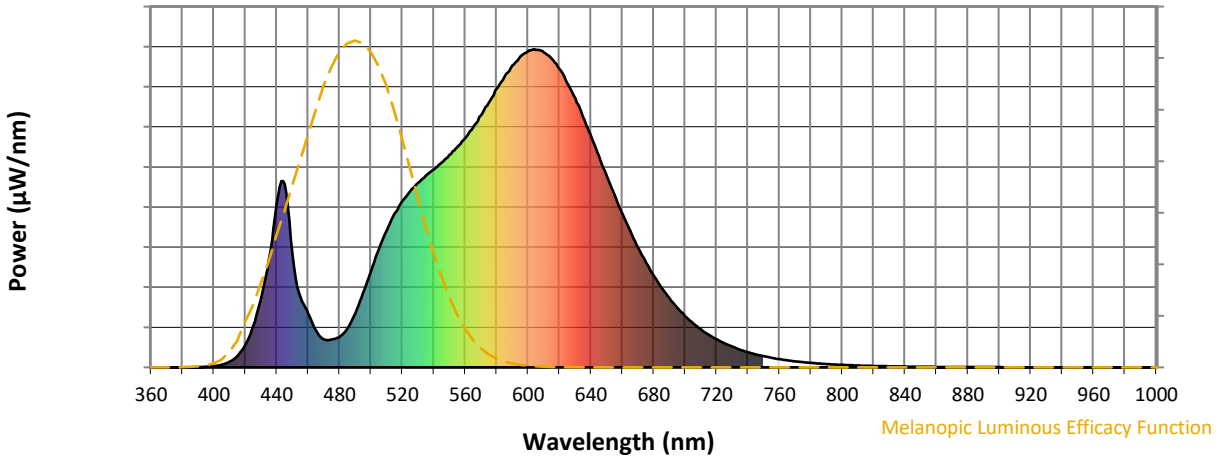


Scotopic Lumens: NR **S/P: 1.28**

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			

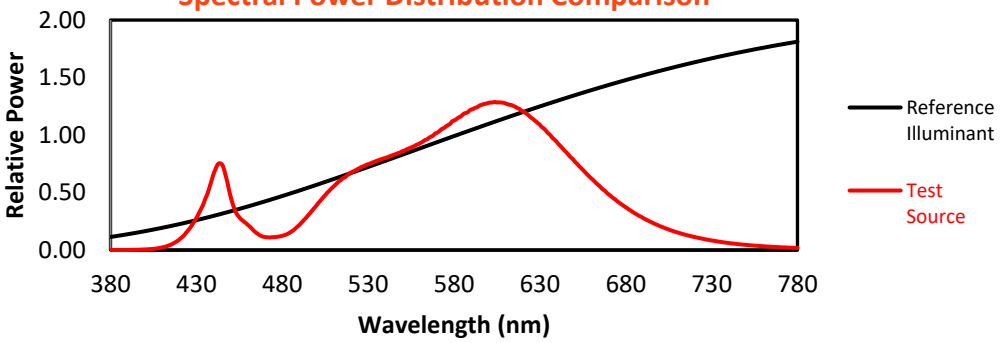
REPORT NUMBER: SP1-2407-184-9

TM-30-18

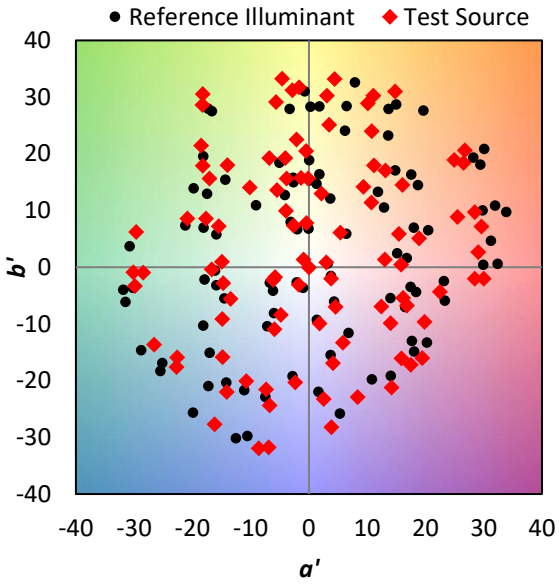
Summary

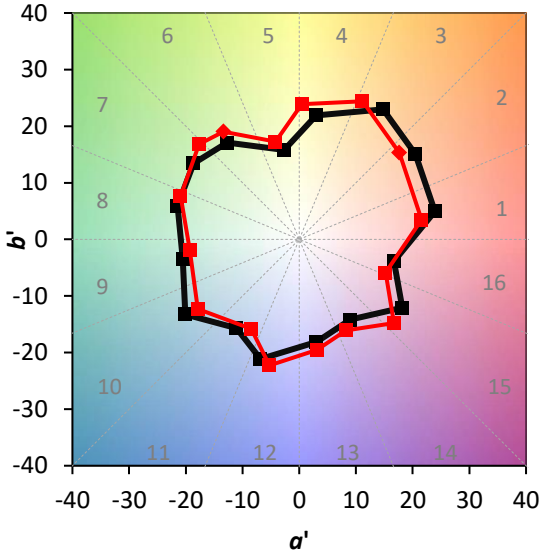
R_f = 81.5
R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

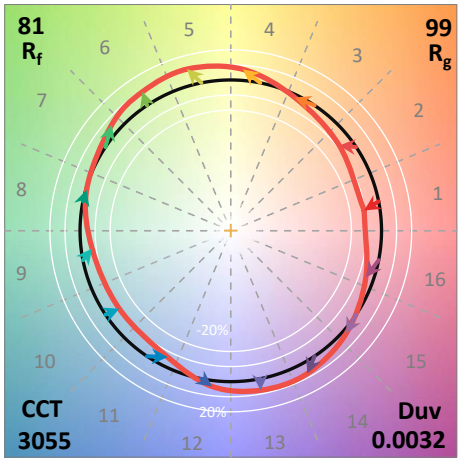
Spectral Power Distribution Comparison

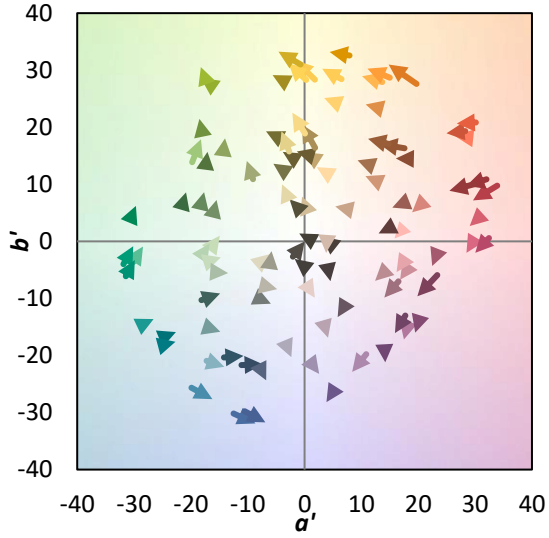


Color Vector Graphics







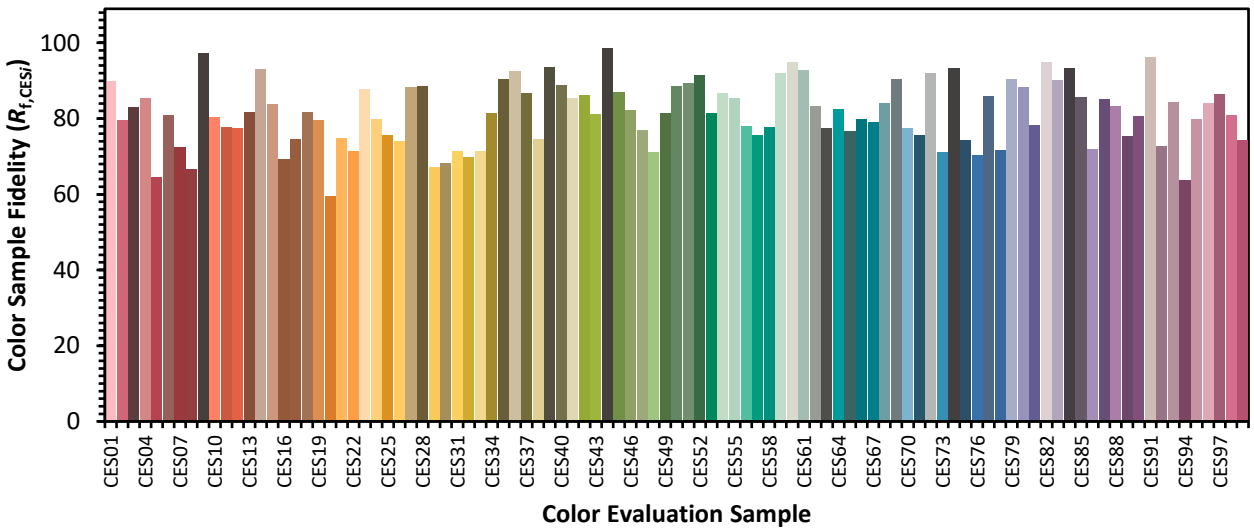


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Individual Sample Fidelity Index ($R_{f,i}$)

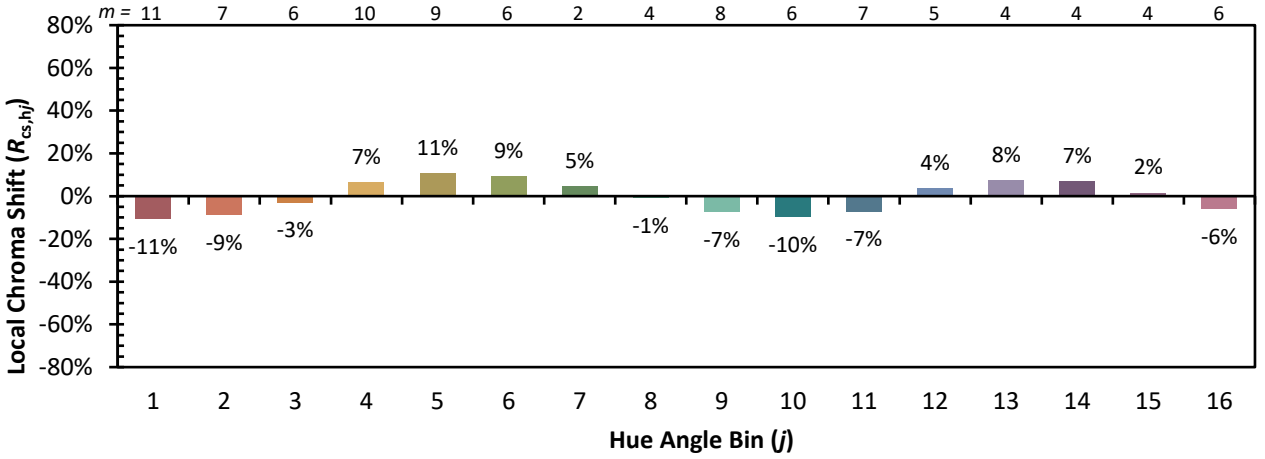
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

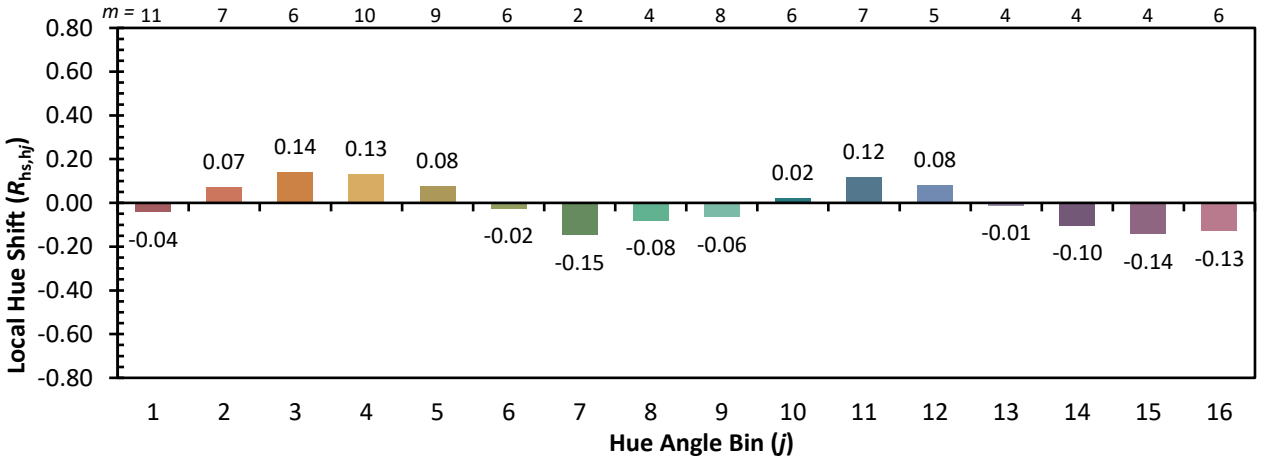


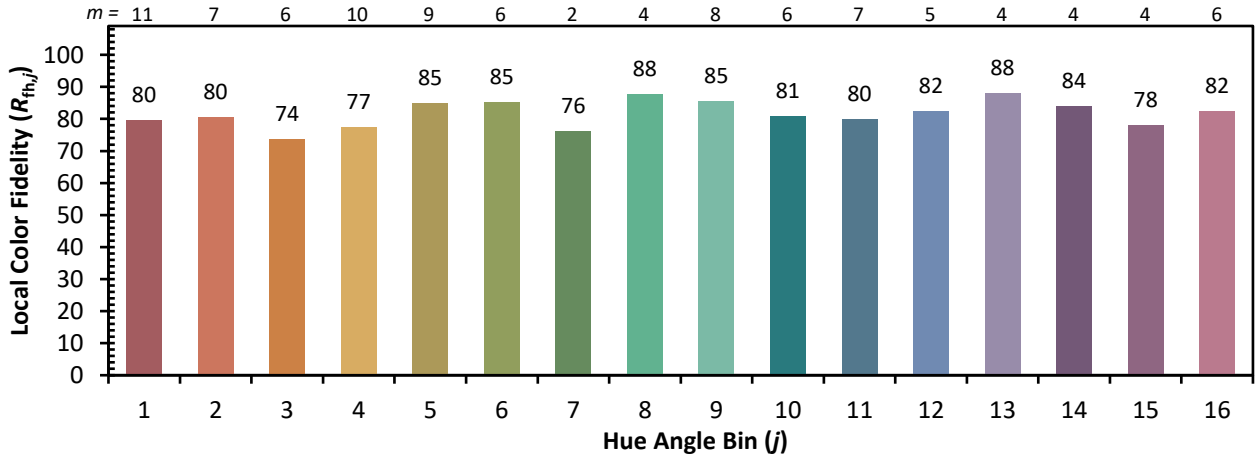
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Color Rendition by Hue-Angle Bin



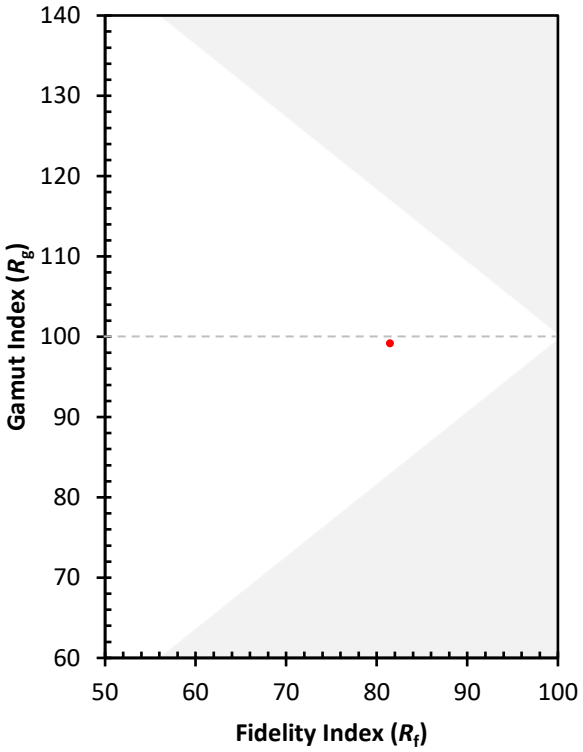


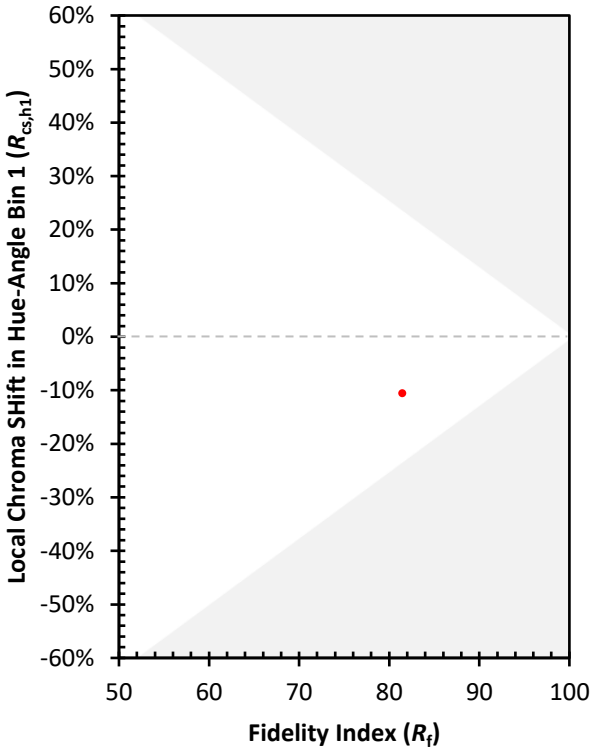


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Measure Comparisons





(END OF REPORT)