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: P1501918

Luminaire Tested: GSS-SB5B-830-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501918
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5B-830-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 184W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(130) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19969.4 lumens
Efficiency:	N/A
Efficacy:	108.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

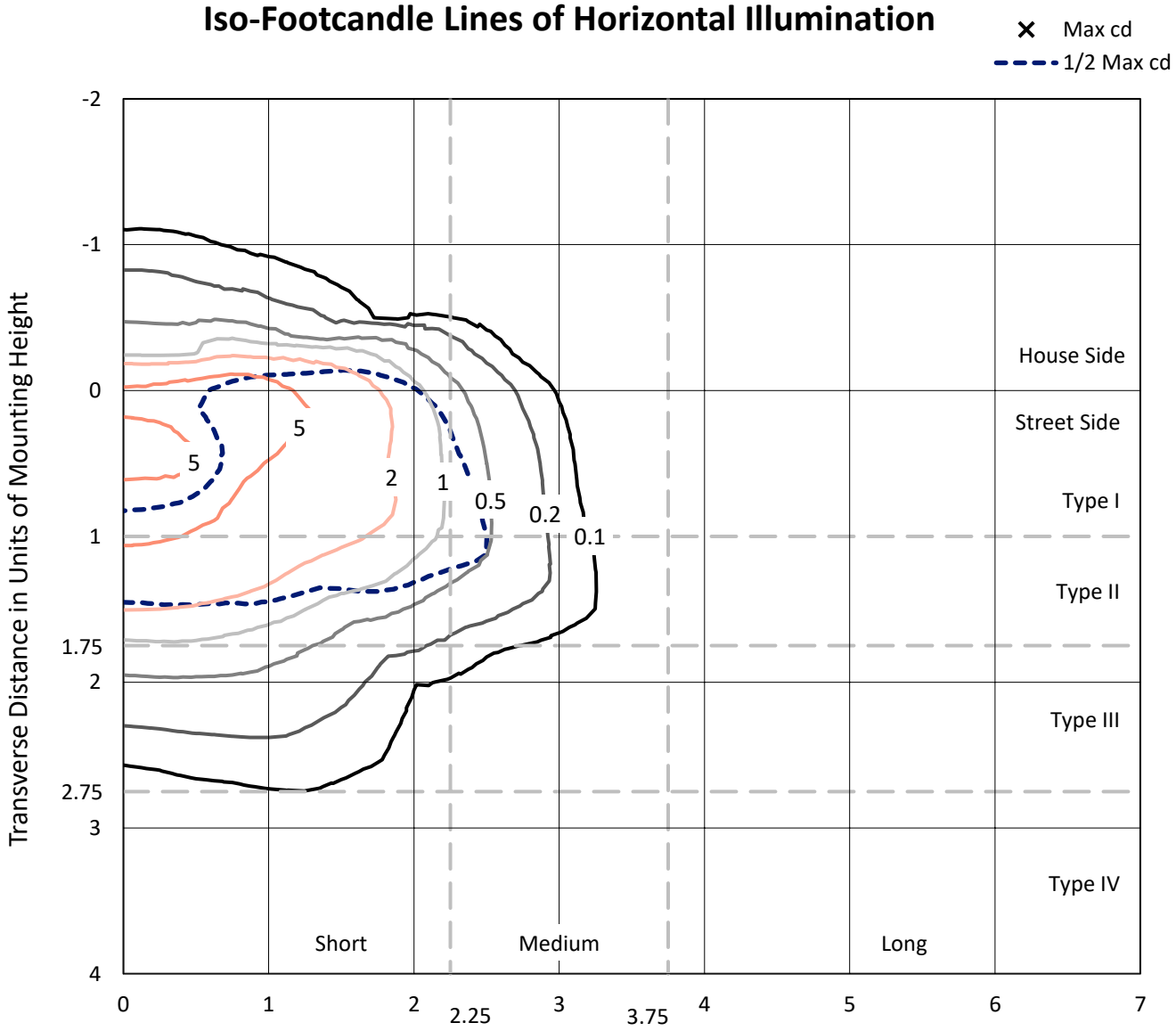
Input Watts (W):	184
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



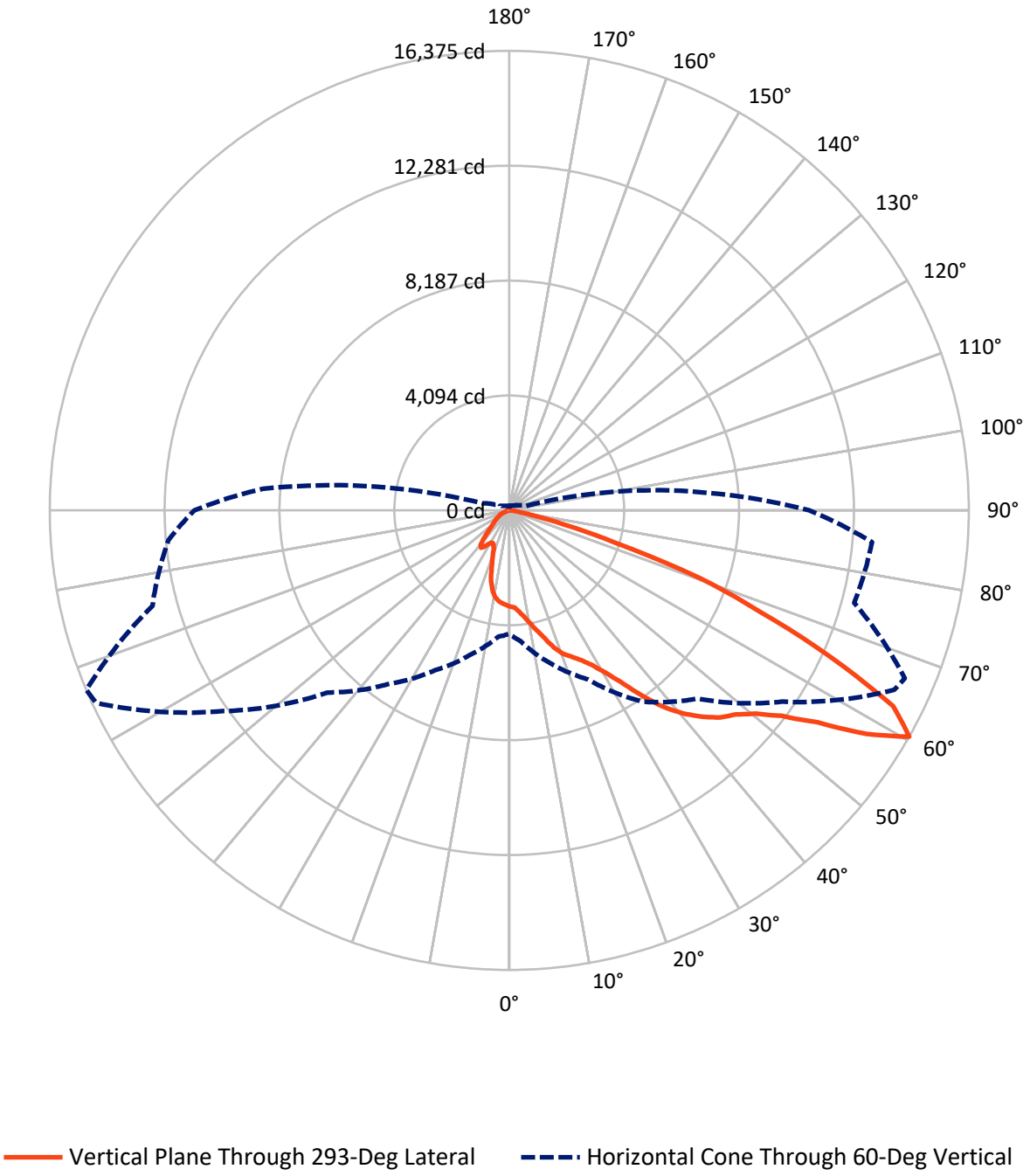
Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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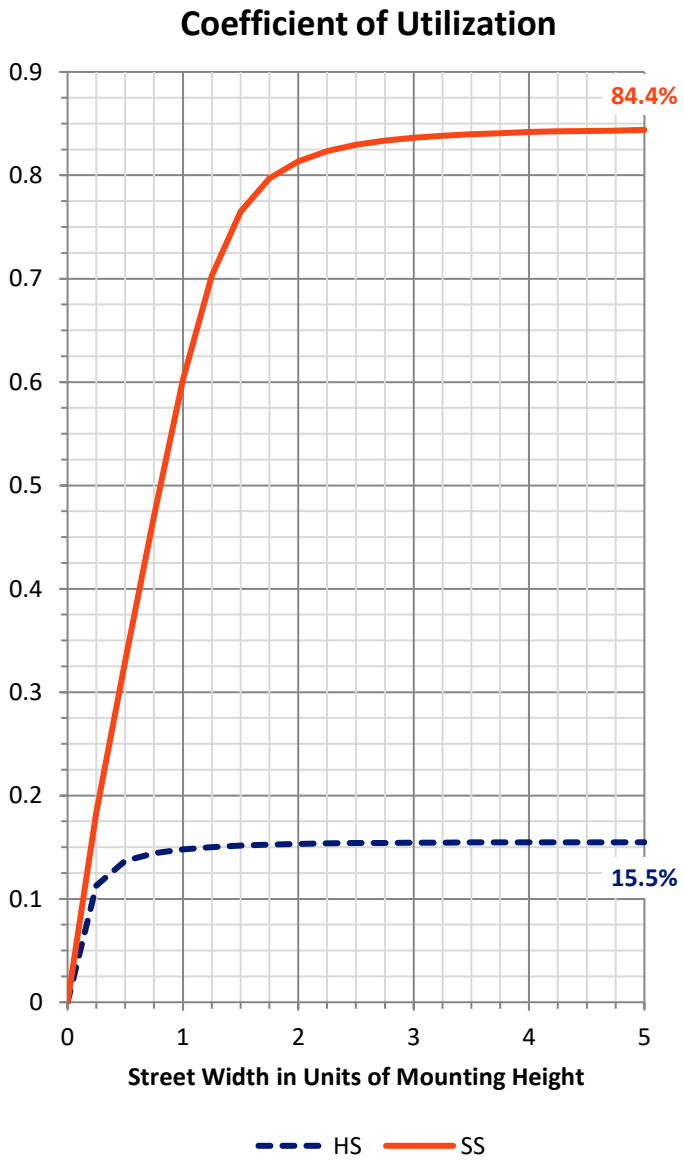
REPORT NUMBER: P1501918
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3115.7	0.0	3115.7
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	16853.7	0.0	16853.7
	% Fixture	84.4	0.0	84.4
Total	Lumens	19969.4	0.0	19969.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	1.6
10°-20°	780.5	3.9
20°-30°	1457.1	7.3
30°-40°	2889.5	14.5
40°-50°	4606.9	23.1
50°-60°	5504.1	27.6
60°-70°	3608.3	18.1
70°-80°	756.0	3.8
80°-90°	57.2	0.3
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°	19969.4	100.0
0°-180°	19969.4	100.0



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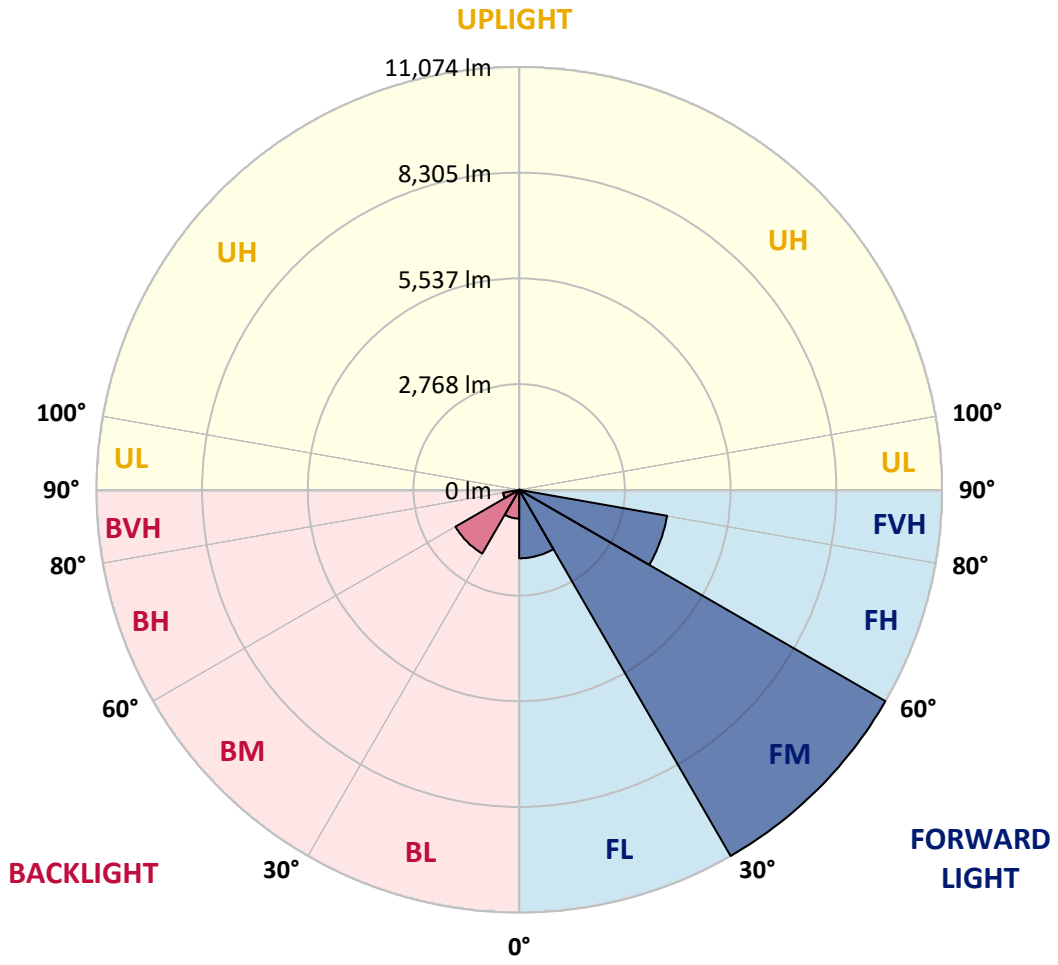
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1793.7	9.0			
FM	(30°-60°)	11073.8	55.5			
FH	(60°-80°)	3933.9	19.7			G2/5000
FVH	(80°-90°)	52.4	0.3			G1/100
BL	(0°-30°)	753.8	3.8	B2/1000		
BM	(30°-60°)	1926.8	9.6	B2/2500		
BH	(60°-80°)	430.4	2.2	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
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°	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6
2.5°	3595.9	3584.7	3568.0	3573.6	3568.0	3545.6	3512.0	3484.1	3506.4	3472.9	3450.5
5°	3702.2	3702.2	3691.0	3691.0	3696.6	3685.4	3663.0	3623.9	3629.5	3601.5	3528.8
7.5°	3702.2	3685.4	3713.4	3741.3	3791.7	3819.6	3830.8	3808.4	3819.6	3763.7	3668.6
10°	3484.1	3472.9	3545.6	3651.8	3797.3	3925.9	4009.8	4015.4	4032.1	3976.2	3864.4
12.5°	3019.9	2997.5	3142.9	3344.3	3640.7	3937.1	4171.9	4261.4	4300.6	4278.2	4121.6
15°	2589.3	2617.3	2717.9	2936.0	3333.1	3786.1	4261.4	4557.8	4613.7	4641.7	4457.2
17.5°	2544.6	2550.1	2583.7	2690.0	2991.9	3540.0	4272.6	4865.4	4943.7	5066.7	4815.1
20°	2667.6	2656.4	2690.0	2723.5	2868.9	3321.9	4166.4	5161.8	5312.8	5575.6	5301.6
22.5°	2896.9	2896.9	2913.6	2936.0	3008.7	3305.1	4121.6	5435.8	5693.1	6230.0	5911.2
25°	3282.7	3238.0	3249.2	3221.2	3282.7	3506.4	4222.3	5653.9	6006.3	6957.0	6638.2
27.5°	3881.1	3897.9	3797.3	3646.3	3679.8	3870.0	4468.3	5900.0	6330.6	7711.9	7376.4
30°	4708.8	4680.9	4619.3	4322.9	4188.7	4356.5	4921.3	6302.7	6766.8	8668.2	8360.7
32.5°	5357.5	5435.8	5329.6	5122.7	4915.7	4966.1	5558.9	6951.4	7298.1	9546.3	9378.5
35°	6140.5	6140.5	6162.8	5872.0	5732.2	5721.0	6358.6	7656.0	8002.8	10340.4	10457.8
37.5°	7197.4	7124.7	7001.7	6677.3	6571.1	6710.9	7108.0	8383.0	8757.7	10983.5	11296.7
40°	8086.6	8137.0	8120.2	7650.4	7443.5	7594.5	7946.8	9003.8	9294.6	11397.3	11973.4
42.5°	8959.1	8987.0	8914.3	8690.6	8388.6	8399.8	8690.6	9473.6	9770.0	11794.4	12610.9
45°	9613.4	9607.8	9557.4	9501.5	9322.6	9138.0	9188.3	9993.7	10250.9	11923.0	12957.6
47.5°	9820.3	9865.0	9909.8	10066.4	10189.4	9898.6	9641.3	10273.3	10508.2	11900.7	13086.3
50°	9630.1	9725.2	9943.3	10178.2	10597.6	10575.3	10021.6	10575.3	10804.6	12023.7	13237.3
52.5°	9205.1	9300.2	9591.0	10016.0	10648.0	10961.1	10726.3	11084.2	11352.6	12336.9	13550.4
55°	8215.3	8254.4	8852.8	9412.0	10396.3	10793.4	11481.2	11945.4	12169.1	12717.2	13964.3
57.5°	6688.5	6783.6	7370.8	8282.4	9691.7	10351.6	11911.9	13416.2	13410.6	13080.7	14053.7
60°	*4401.2*	*4680.9*	*5637.2*	*6643.8*	*8327.1*	*9484.7*	*11883.9*	*15138.7*	*15312.0*	*12722.8*	*12974.4*
62.5°	3361.0	3478.5	4020.9	4859.8	6162.8	7862.9	11699.3	15653.2	15787.4	11760.9	11358.2
65°	2527.8	2673.2	3193.3	3942.7	4350.9	5329.6	10491.4	13606.4	13790.9	10497.0	8830.4
67.5°	1549.1	1666.5	2360.0	3238.0	3293.9	3310.7	7080.0	10306.8	10373.9	8466.9	5944.7
70°	1034.6	1152.0	1633.0	2488.6	2622.8	1907.0	3886.7	7801.4	7795.8	5793.7	3612.7
72.5°	598.4	654.3	1034.6	1834.3	2063.6	1213.6	1940.6	4960.5	4742.4	2723.5	1688.9
75°	341.1	380.3	570.4	1180.0	1448.4	771.8	766.2	2656.4	2348.8	1403.7	922.7
77.5°	206.9	223.7	313.2	771.8	872.4	520.1	425.0	1235.9	1191.2	822.1	486.5
80°	100.7	117.4	190.1	453.0	559.2	279.6	257.3	486.5	520.1	453.0	257.3
82.5°	33.6	44.7	106.3	173.4	363.5	111.8	106.3	268.4	285.2	268.4	123.0
85°	16.8	22.4	50.3	55.9	139.8	55.9	39.1	117.4	145.4	89.5	50.3
87.5°	0.0	5.6	5.6	5.6	5.6	5.6	5.6	11.2	11.2	11.2	11.2
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°	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6
2.5°	3433.7	3422.6	3400.2	3361.0	3355.5	3327.5	3282.7	3254.8	3232.4	3249.2	3254.8
5°	3495.3	3467.3	3400.2	3293.9	3182.1	3070.2	2964.0	2840.9	2757.1	2745.9	2723.5
7.5°	3607.1	3551.2	3405.8	3198.9	2913.6	2645.2	2332.0	2030.0	1879.1	1856.7	1806.4
10°	3786.1	3691.0	3450.5	3031.1	2483.0	1923.8	1448.4	1124.1	939.5	906.0	917.2
12.5°	3998.6	3864.4	3456.1	2745.9	1890.2	1191.2	822.1	699.1	659.9	643.1	643.1
15°	4272.6	4076.9	3450.5	2376.8	1275.1	766.2	659.9	609.6	592.8	581.6	581.6
17.5°	4619.3	4362.1	3411.4	1823.1	861.2	665.5	604.0	564.8	542.5	536.9	536.9
20°	5027.6	4680.9	3321.9	1359.0	721.4	620.8	570.4	520.1	503.3	492.1	492.1
22.5°	5547.7	5066.7	3148.5	1057.0	682.3	592.8	536.9	480.9	464.2	453.0	453.0
25°	6151.7	5558.9	2919.2	950.7	676.7	570.4	503.3	447.4	430.6	425.0	419.4
27.5°	6867.5	6084.6	2706.7	956.3	687.9	553.6	469.8	419.4	402.7	385.9	391.5
30°	7711.9	6627.0	2533.4	1023.4	699.1	536.9	447.4	402.7	385.9	363.5	363.5
32.5°	8545.2	7264.6	2516.6	1146.4	738.2	525.7	425.0	380.3	363.5	346.7	346.7
35°	9400.9	7846.2	2611.7	1308.6	816.5	508.9	397.1	357.9	341.1	330.0	324.4
37.5°	10217.3	8310.3	2701.1	1409.3	771.8	436.2	363.5	330.0	313.2	290.8	290.8
40°	10759.8	8562.0	2717.9	1331.0	637.5	391.5	330.0	296.4	274.0	262.8	257.3
42.5°	11156.9	8724.2	2527.8	1079.3	553.6	357.9	302.0	268.4	251.7	240.5	240.5
45°	11319.1	8668.2	2203.4	822.1	508.9	330.0	274.0	246.1	234.9	223.7	223.7
47.5°	11296.7	8411.0	1873.5	659.9	464.2	302.0	257.3	234.9	223.7	212.5	206.9
50°	11257.5	8170.5	1537.9	587.2	413.8	285.2	240.5	223.7	206.9	195.7	190.1
52.5°	11514.8	8092.2	1275.1	536.9	385.9	274.0	234.9	212.5	195.7	184.5	184.5
55°	11772.0	8125.8	1001.0	503.3	357.9	268.4	229.3	206.9	190.1	173.4	173.4
57.5°	11755.3	7980.4	760.6	469.8	335.5	262.8	223.7	201.3	173.4	162.2	162.2
60°	*10687.1*	*7119.1*	*592.8*	*430.6*	*307.6*	*246.1*	*206.9*	*190.1*	*162.2*	*145.4*	*145.4*
62.5°	9037.3	5598.0	486.5	380.3	274.0	223.7	190.1	173.4	145.4	117.4	117.4
65°	6677.3	4037.7	391.5	330.0	251.7	195.7	173.4	151.0	117.4	95.1	89.5
67.5°	4518.7	2483.0	313.2	274.0	223.7	167.8	145.4	128.6	106.3	78.3	72.7
70°	2678.8	1319.8	229.3	190.1	167.8	123.0	123.0	111.8	89.5	67.1	61.5
72.5°	1275.1	458.6	167.8	139.8	128.6	89.5	95.1	95.1	72.7	50.3	44.7
75°	648.7	223.7	111.8	100.7	83.9	67.1	78.3	72.7	50.3	33.6	33.6
77.5°	369.1	156.6	78.3	67.1	55.9	44.7	50.3	44.7	28.0	16.8	16.8
80°	206.9	111.8	50.3	44.7	33.6	28.0	28.0	22.4	16.8	5.6	5.6
82.5°	78.3	67.1	33.6	22.4	16.8	16.8	11.2	11.2	5.6	0.0	0.0
85°	33.6	16.8	16.8	11.2	11.2	5.6	5.6	5.6	0.0	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6
2.5°	3210.0	3221.2	3232.4	3277.2	3288.3	3321.9	3349.9	3383.4	3389.0	3433.7	3433.7
5°	2768.2	2762.7	2857.7	2997.5	3087.0	3210.0	3305.1	3405.8	3461.7	3534.4	3568.0
7.5°	1834.3	1974.1	2186.6	2432.7	2751.5	3047.9	3271.6	3467.3	3601.5	3685.4	3719.0
10°	911.6	989.9	1213.6	1616.2	2158.7	2762.7	3238.0	3601.5	3819.6	3914.7	3976.2
12.5°	643.1	659.9	699.1	917.2	1437.3	2292.9	3131.8	3746.9	4048.9	4227.9	4306.2
15°	576.0	587.2	604.0	665.5	889.2	1711.3	2941.6	3909.1	4406.8	4613.7	4714.4
17.5°	531.3	536.9	553.6	604.0	699.1	1163.2	2634.0	4082.5	4837.4	5089.1	5279.2
20°	492.1	492.1	508.9	570.4	648.7	894.8	2192.2	4278.2	5385.5	5749.0	5939.1
22.5°	447.4	458.6	469.8	536.9	631.9	816.5	1778.4	4429.2	5995.1	6436.9	6660.6
25°	413.8	425.0	436.2	503.3	615.2	816.5	1537.9	4524.3	6677.3	7203.0	7510.6
27.5°	385.9	397.1	413.8	480.9	598.4	850.0	1442.8	4552.2	7421.1	8103.4	8517.3
30°	363.5	374.7	391.5	464.2	609.6	889.2	1476.4	4513.1	8176.1	9031.8	9523.9
32.5°	341.1	352.3	369.1	447.4	609.6	939.5	1588.2	4434.8	8908.7	9960.1	10564.1
35°	324.4	330.0	335.5	402.7	553.6	933.9	1728.1	4356.5	9646.9	10877.3	11581.9
37.5°	290.8	296.4	307.6	346.7	441.8	850.0	1756.0	4261.4	10228.5	11649.0	12426.4
40°	257.3	268.4	279.6	318.8	369.1	687.9	1633.0	4060.1	10536.1	12241.8	13186.9
42.5°	234.9	240.5	251.7	290.8	341.1	548.1	1370.1	3707.8	10810.1	12644.5	13740.6
45°	218.1	223.7	234.9	262.8	318.8	475.4	1079.3	3277.2	10832.5	12773.1	14009.0
47.5°	201.3	206.9	212.5	240.5	307.6	425.0	827.7	2885.7	10826.9	12940.9	14238.3
50°	190.1	195.7	206.9	229.3	290.8	380.3	682.3	2566.9	11061.8	13304.4	14702.5
52.5°	184.5	184.5	201.3	223.7	274.0	346.7	570.4	2281.7	11184.8	13662.3	15038.0
55°	173.4	179.0	190.1	212.5	257.3	330.0	486.5	1923.8	11240.8	13841.2	15099.5
57.5°	162.2	167.8	184.5	201.3	246.1	313.2	419.4	1437.3	10441.0	12907.3	14070.5
60°	*145.4*	*156.6*	*179.0*	*195.7*	*229.3*	*285.2*	*369.1*	*973.1*	*8808.1*	*11218.4*	*12191.5*
62.5°	117.4	139.8	162.2	173.4	206.9	240.5	313.2	648.7	7035.3	9283.4	10390.7
65°	89.5	117.4	134.2	151.0	173.4	201.3	262.8	441.8	4692.0	6246.7	7493.8
67.5°	78.3	100.7	111.8	123.0	145.4	173.4	212.5	307.6	2846.5	3752.5	4982.8
70°	61.5	83.9	95.1	89.5	111.8	134.2	151.0	206.9	1454.0	2035.6	2835.4
72.5°	44.7	67.1	72.7	72.7	67.1	95.1	111.8	145.4	631.9	989.9	1286.3
75°	33.6	44.7	50.3	44.7	39.1	61.5	78.3	95.1	413.8	592.8	749.4
77.5°	16.8	16.8	28.0	28.0	16.8	33.6	39.1	55.9	234.9	346.7	430.6
80°	5.6	0.0	0.0	5.6	0.0	11.2	16.8	28.0	123.0	184.5	268.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	61.5	55.9	139.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	33.6
87.5°	0.0	0.0	0.0	0.0	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: P1501918
CATALOG NUMBER: GSS-SB5B-830-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3422.6	*3422.6*	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6	3422.6
2.5°	3461.7	*3461.7*	3484.1	3517.6	3534.4	3545.6	3551.2	3562.4	3607.1	3595.9
5°	3607.1	*3618.3*	3635.1	3668.6	3707.8	3696.6	3696.6	3696.6	3724.6	3702.2
7.5°	3797.3	*3830.8*	3836.4	3875.5	3847.6	3791.7	3758.1	3707.8	3702.2	3702.2
10°	4104.8	*4093.6*	4093.6	4043.3	3942.7	3780.5	3635.1	3534.4	3478.5	3484.1
12.5°	4434.8	*4390.0*	4395.6	4211.1	3925.9	3568.0	3271.6	3053.5	3036.7	3019.9
15°	4843.0	*4725.6*	4703.2	4278.2	3674.2	3126.2	2835.4	2662.0	2606.1	2589.3
17.5°	5424.6	*5128.2*	5022.0	4160.8	3344.3	2852.1	2634.0	2555.7	2550.1	2544.6
20°	6039.8	*5452.6*	5251.3	3987.4	3232.4	2857.7	2695.5	2673.2	2662.0	2667.6
22.5°	6755.6	*5659.5*	5402.3	4015.4	3333.1	3042.3	2913.6	2896.9	2885.7	2896.9
25°	7493.8	*5900.0*	5581.2	4239.1	3635.1	3383.4	3232.4	3198.9	3232.4	3282.7
27.5°	8237.6	*6224.4*	5933.6	4680.9	4121.6	3847.6	3702.2	3825.2	3875.5	3881.1
30°	8897.5	*6677.3*	6408.9	5301.6	4675.3	4401.2	4429.2	4585.8	4647.3	4708.8
32.5°	9501.5	*7281.3*	7074.4	6006.3	5391.1	5228.9	5212.1	5329.6	5396.7	5357.5
35°	10111.1	*8069.9*	7868.5	6772.4	6269.1	6134.9	5995.1	6224.4	6202.0	6140.5
37.5°	10687.1	*8864.0*	8679.4	7594.5	7074.4	6839.5	6817.2	7024.1	7208.6	7197.4
40°	11100.9	*9507.1*	9283.4	8411.0	7918.9	7717.5	7835.0	8192.9	8148.2	8086.6
42.5°	11481.2	*10055.2*	9853.8	9126.8	8612.3	8701.8	8808.1	9048.5	9020.6	8959.1
45°	11660.2	*10524.9*	10351.6	9669.3	9417.6	9702.8	9697.3	9786.7	9635.7	9613.4
47.5°	11911.9	*10860.5*	10681.5	10155.8	10379.5	10497.0	10167.0	10071.9	9932.1	9820.3
50°	12376.0	*11380.6*	11201.6	10894.0	11084.2	10720.7	10318.0	10111.1	9825.9	9630.1
52.5°	12918.5	*12169.1*	12012.5	11889.5	11358.2	10608.8	10094.3	9719.6	9372.9	9205.1
55°	13600.8	*13332.3*	13220.5	12543.8	11112.1	10150.2	9546.3	8847.2	8371.8	8215.3
57.5°	13824.5	*15038.0*	14998.9	12650.0	10424.3	9317.0	8226.4	7281.3	6789.2	6688.5
60°	*13164.6*	*16374.6*	*16234.8*	*12471.1*	*9177.2*	*7560.9*	*6285.9*	*5318.4*	*4518.7*	*4401.2*
62.5°	12320.1	*15351.2*	15300.9	11570.7	6990.5	5419.1	4697.6	3791.7	3450.5	3361.0
65°	10552.9	*12560.6*	12582.9	9283.4	4423.6	3892.3	3858.8	3014.3	2594.9	2527.8
67.5°	8125.8	*9635.7*	9479.1	5838.5	2578.1	3115.0	3081.4	2203.4	1593.8	1549.1
70°	4748.0	*7175.1*	6923.4	3036.7	1705.7	2600.5	2371.2	1549.1	1084.9	1034.6
72.5°	2097.2	*3948.2*	4239.1	1336.6	1202.4	2069.2	1711.3	950.7	609.6	598.4
75°	1163.2	*1957.3*	2046.8	581.6	844.5	1470.8	1034.6	531.3	346.7	341.1
77.5°	699.1	*866.8*	844.5	374.7	631.9	939.5	626.4	302.0	218.1	206.9
80°	391.5	*397.1*	335.5	274.0	374.7	525.7	352.3	190.1	100.7	100.7
82.5°	240.5	*218.1*	173.4	83.9	100.7	318.8	128.6	106.3	33.6	33.6
85°	100.7	*67.1*	44.7	16.8	39.1	83.9	44.7	50.3	16.8	16.8
87.5°	0.0	*0.0*	0.0	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

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

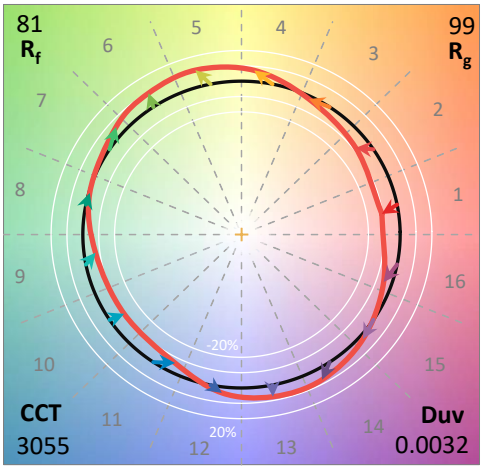
Test Information

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

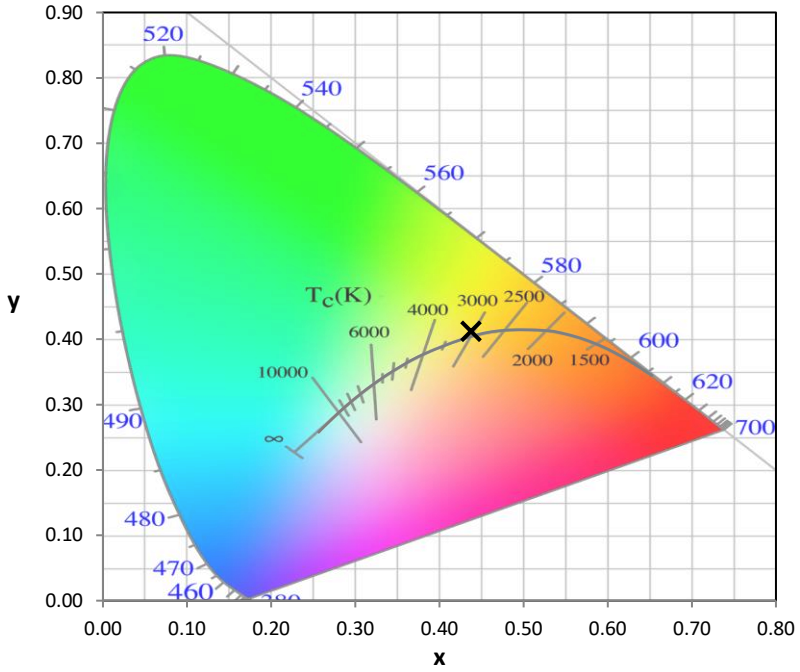
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

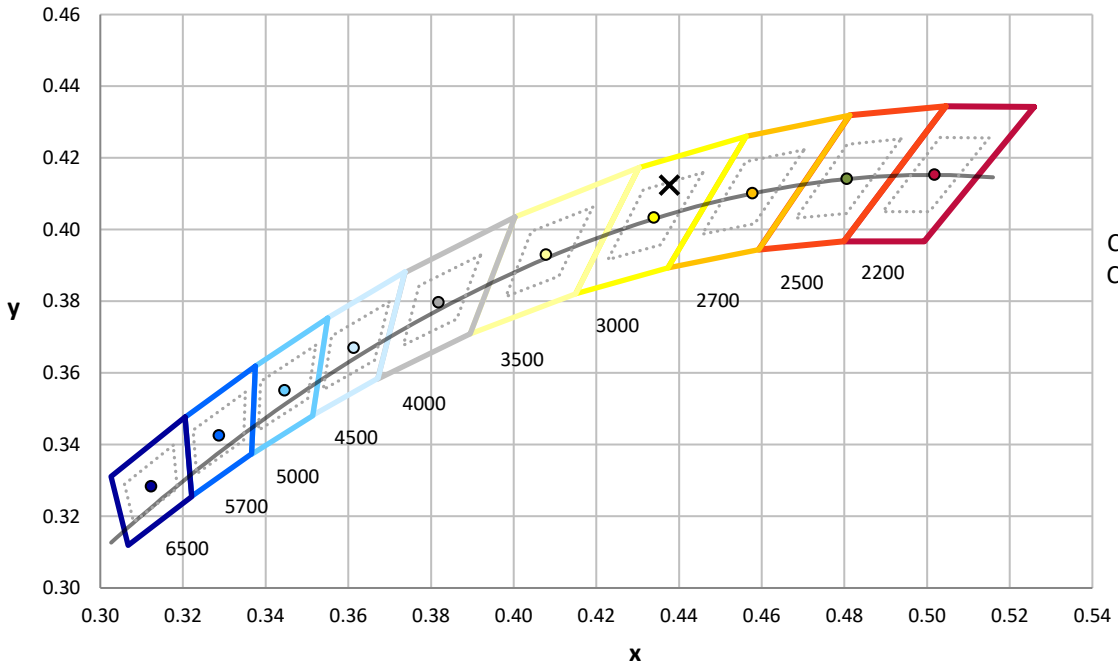
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

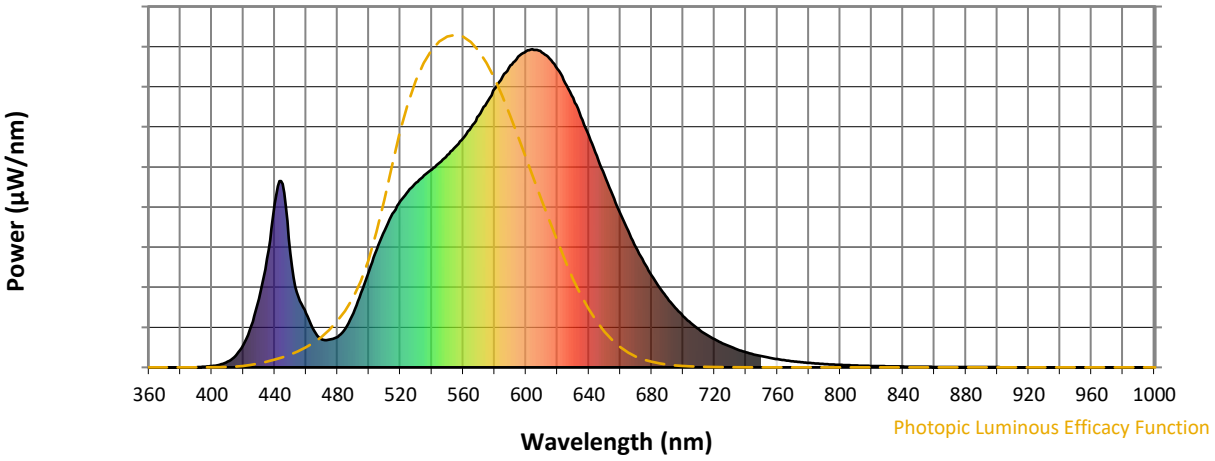


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

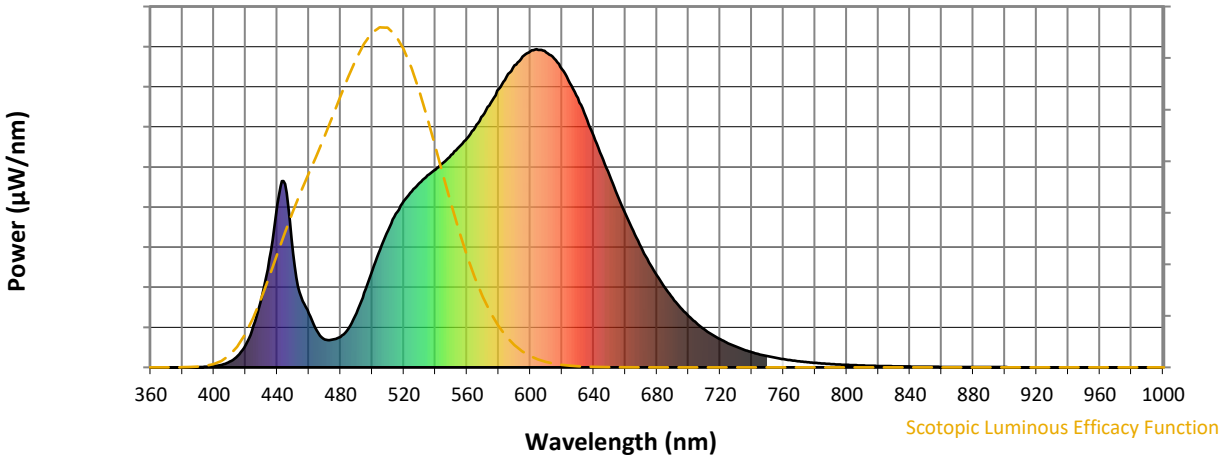


Photopic Lumens: NR

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

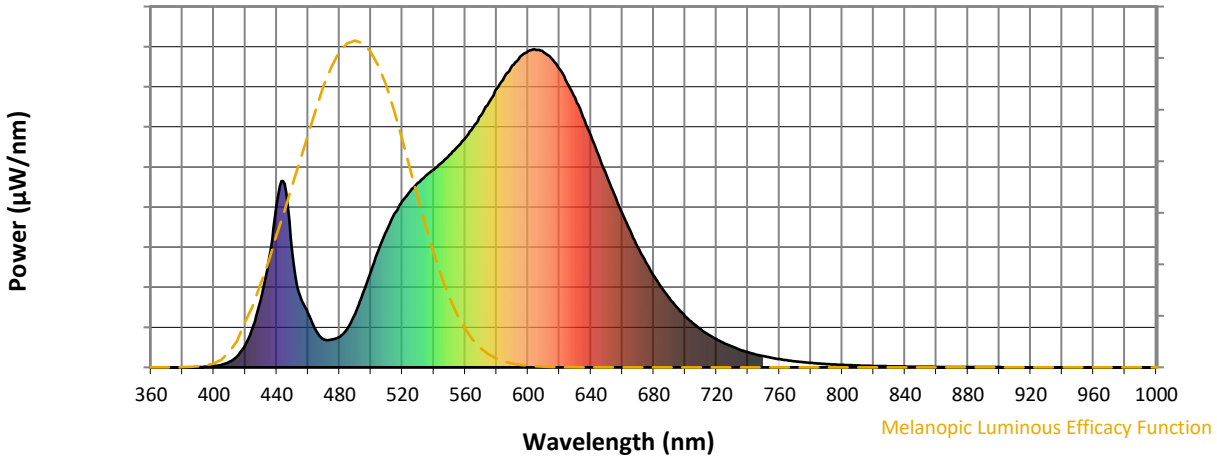


Scotopic Lumens: NR **S/P: 1.28**

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			

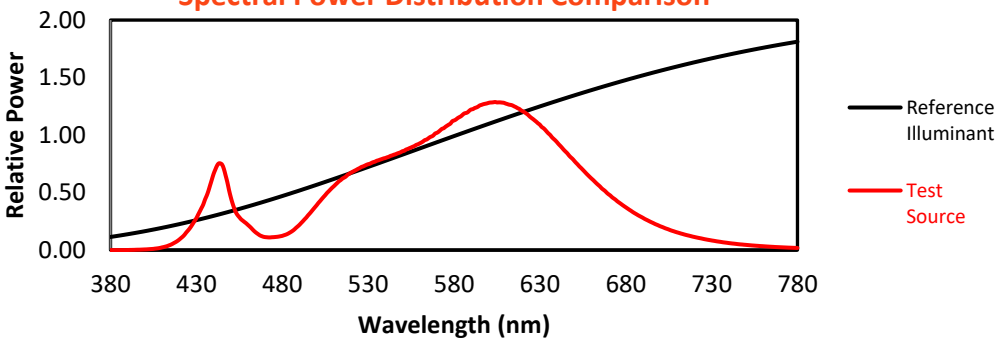
REPORT NUMBER: SP1-2407-184-9

TM-30-18

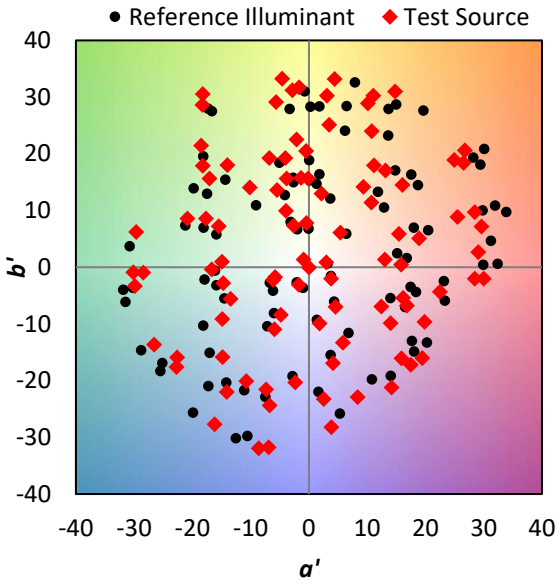
Summary

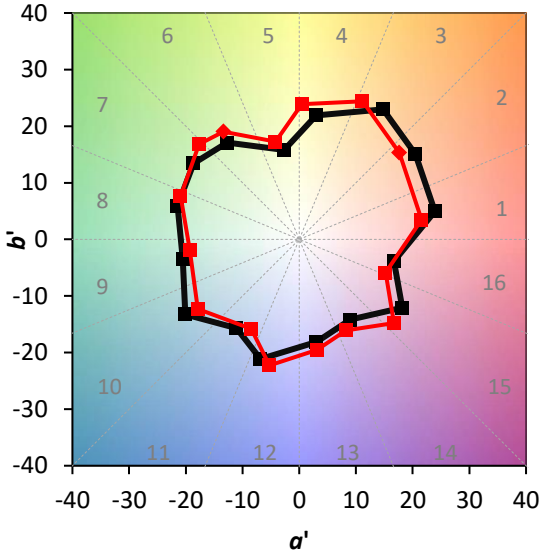
R_f = 81.5
R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

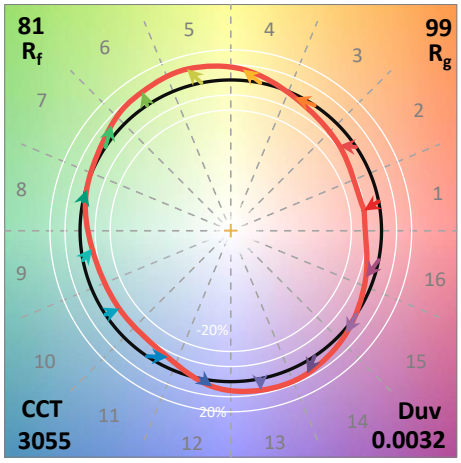
Spectral Power Distribution Comparison

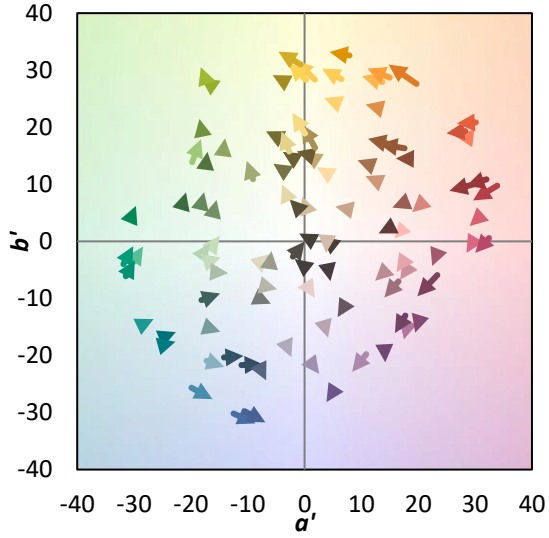


Color Vector Graphics







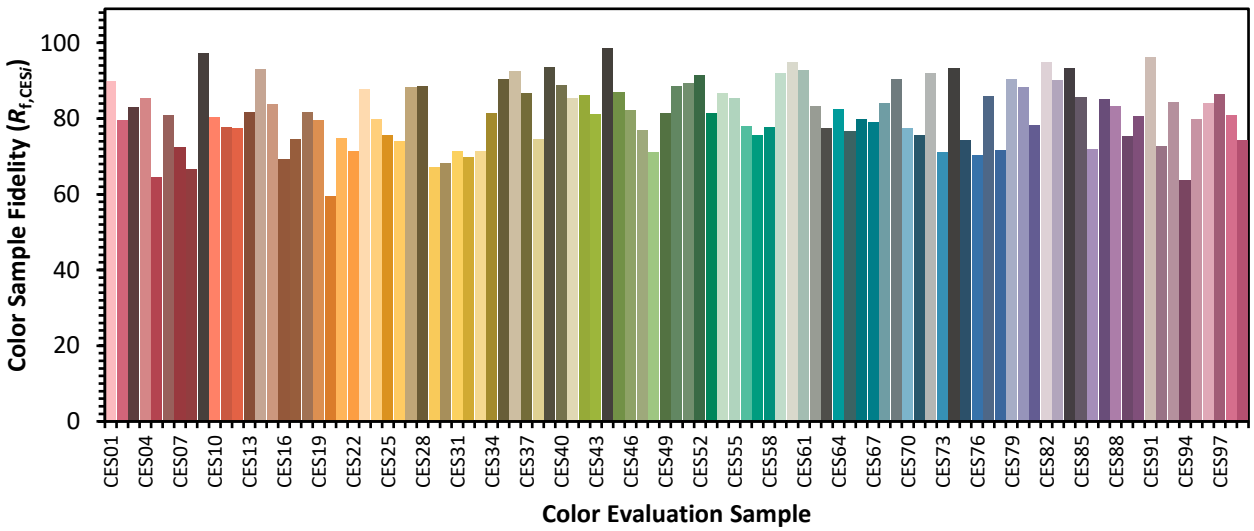


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Individual Sample Fidelity Index ($R_{f,i}$)

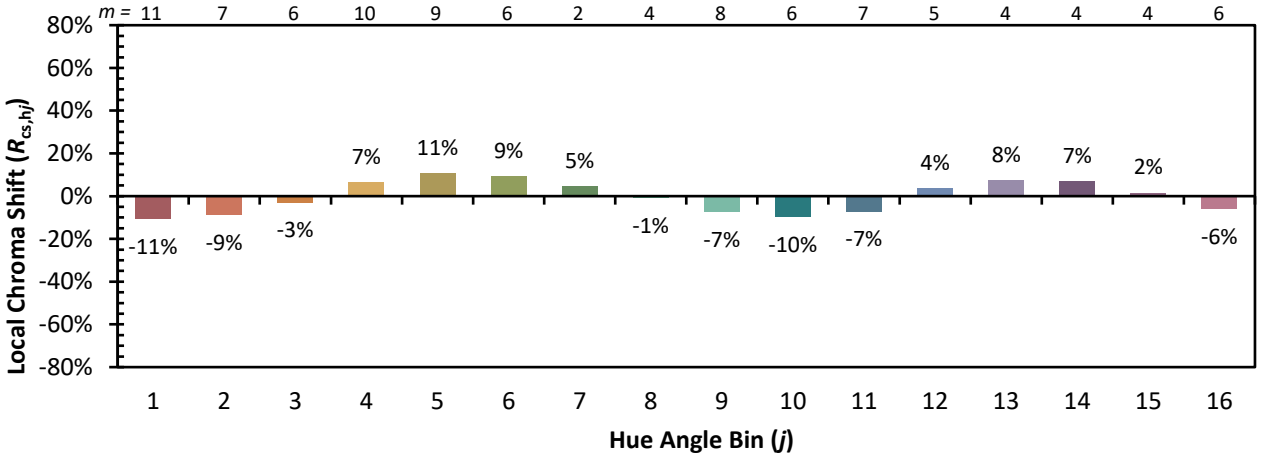
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57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

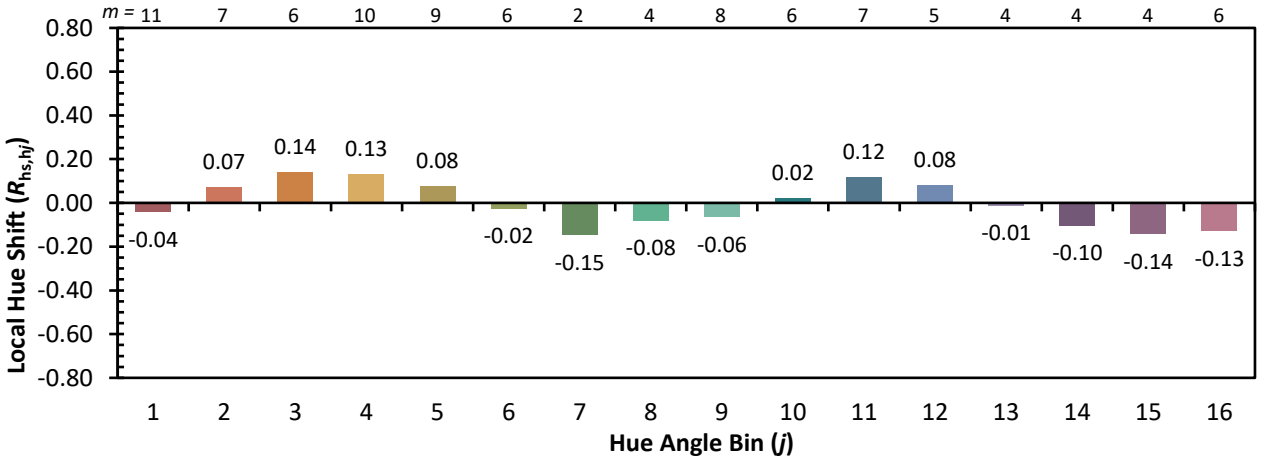


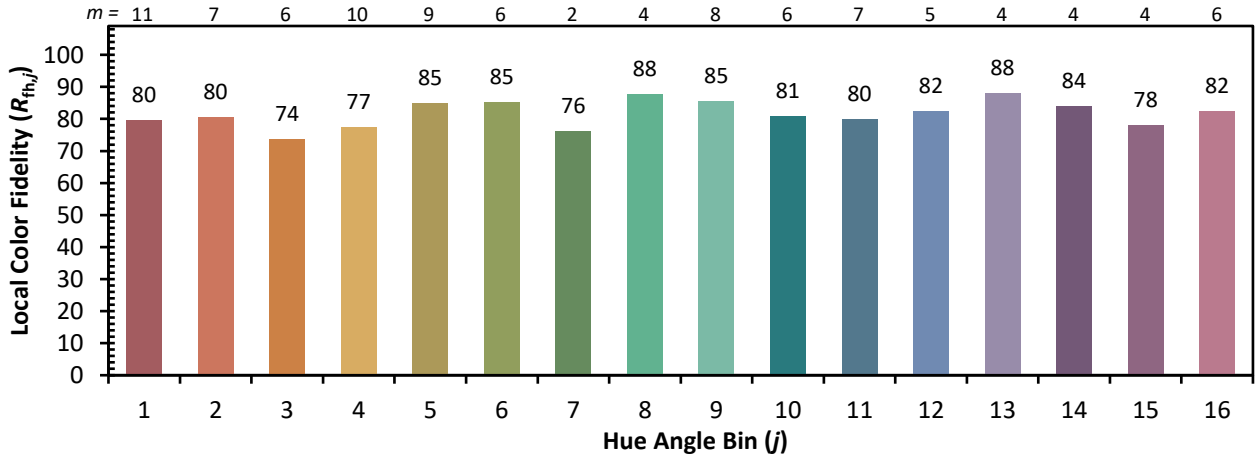
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Color Rendition by Hue-Angle Bin



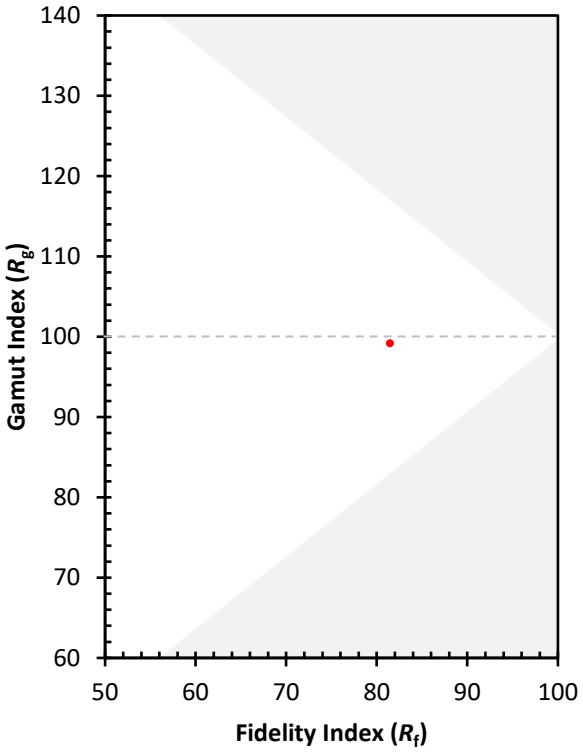


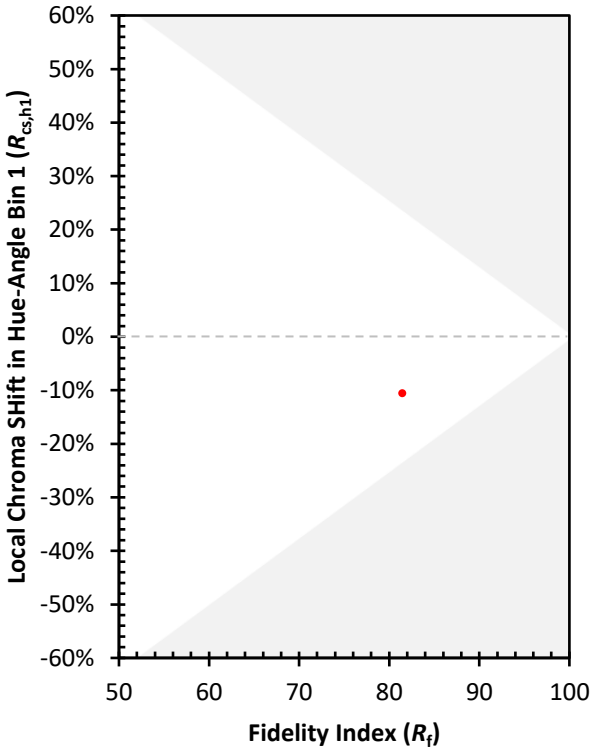


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Measure Comparisons





(END OF REPORT)