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: P1704729

Luminaire Tested: GSS-SB2A-AMB-U-SLL

Issue Date: 10/28/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1704729
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-AMB-U-SLL
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 2SQUARE 68W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION
Light Source:	(52) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4153.3 lumens
Efficiency:	N/A
Efficacy:	61.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	68
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

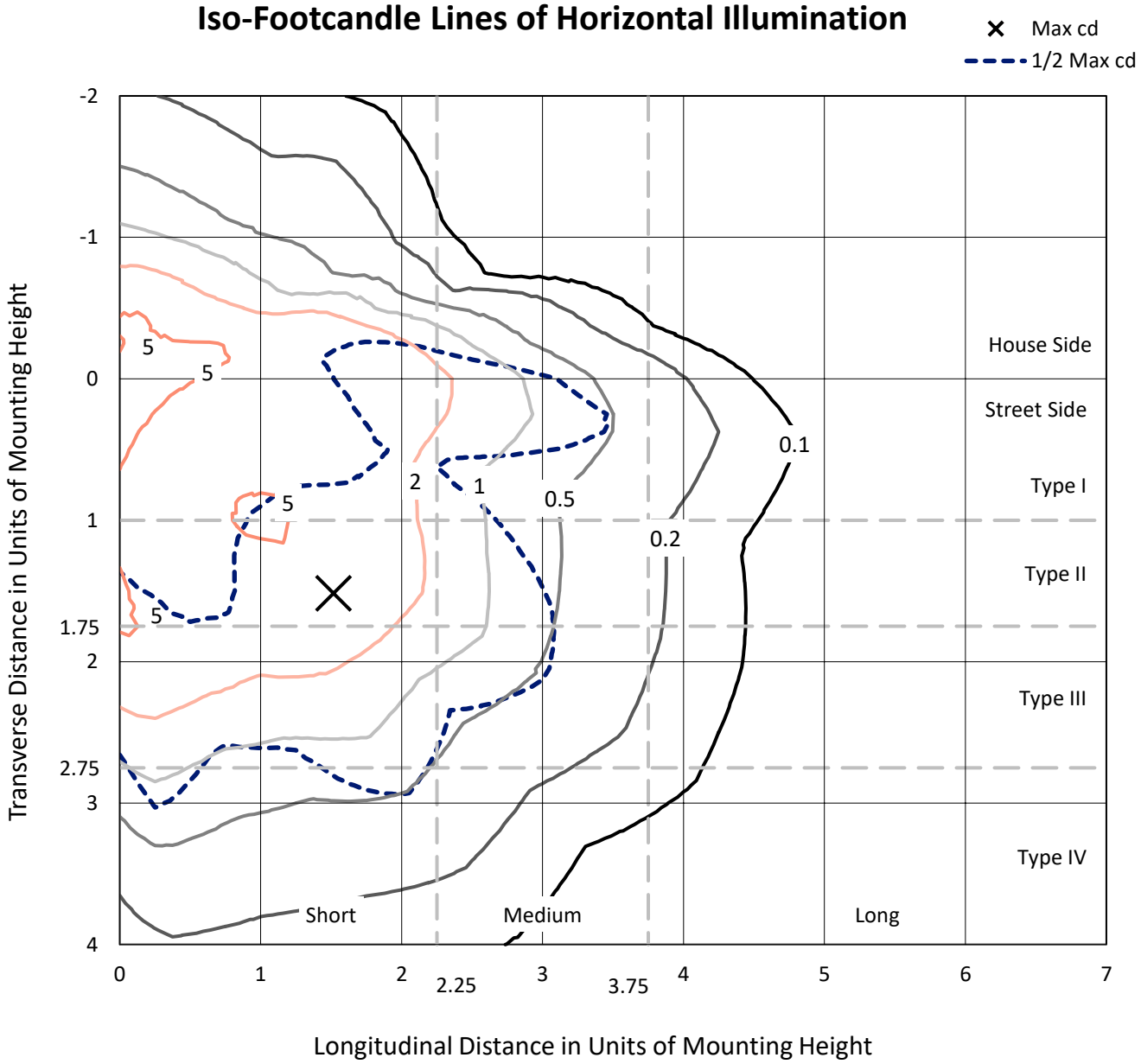


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REPORT NUMBER: P1704729
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Iso-Footcandle Lines of Horizontal Illumination



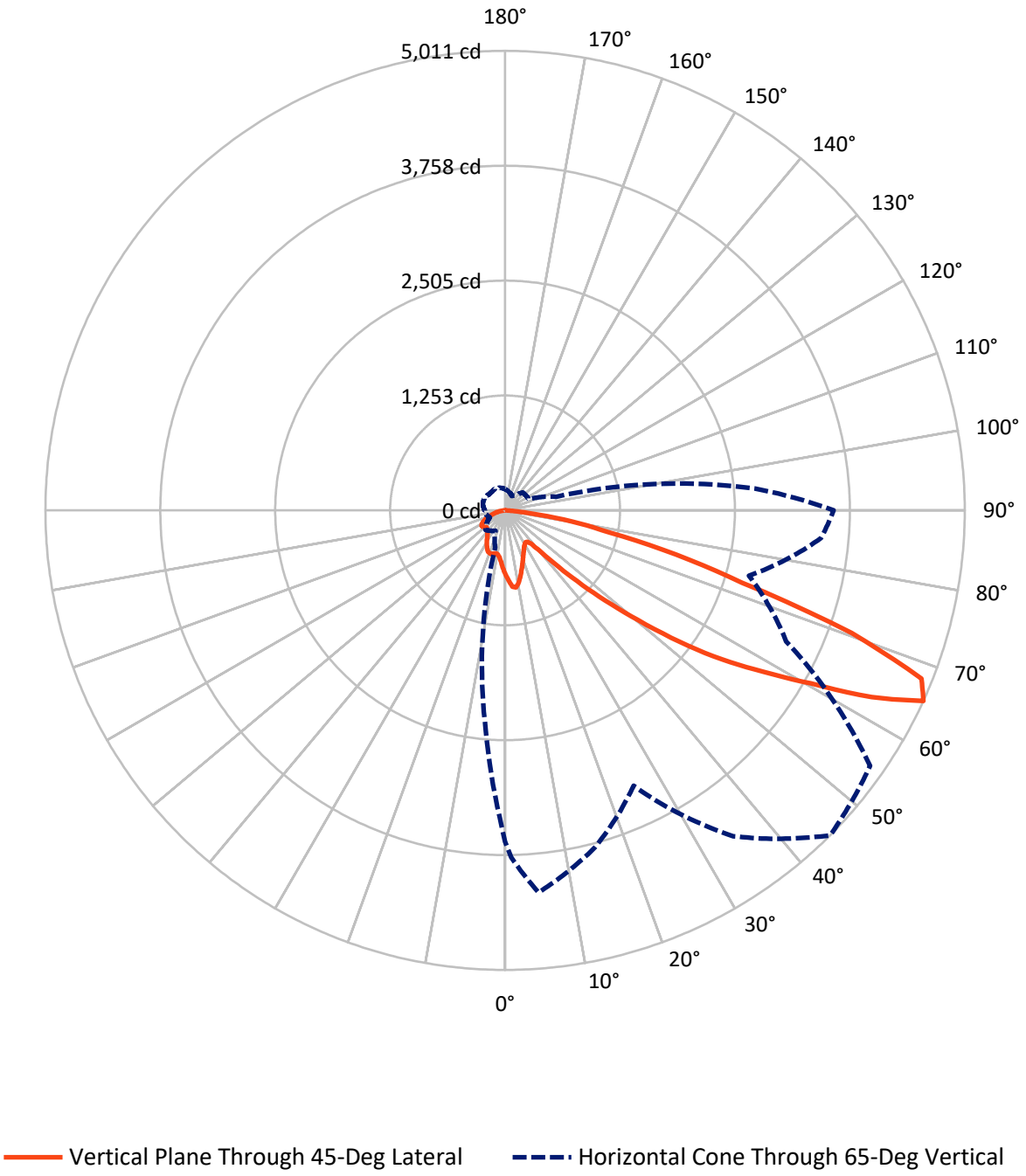
Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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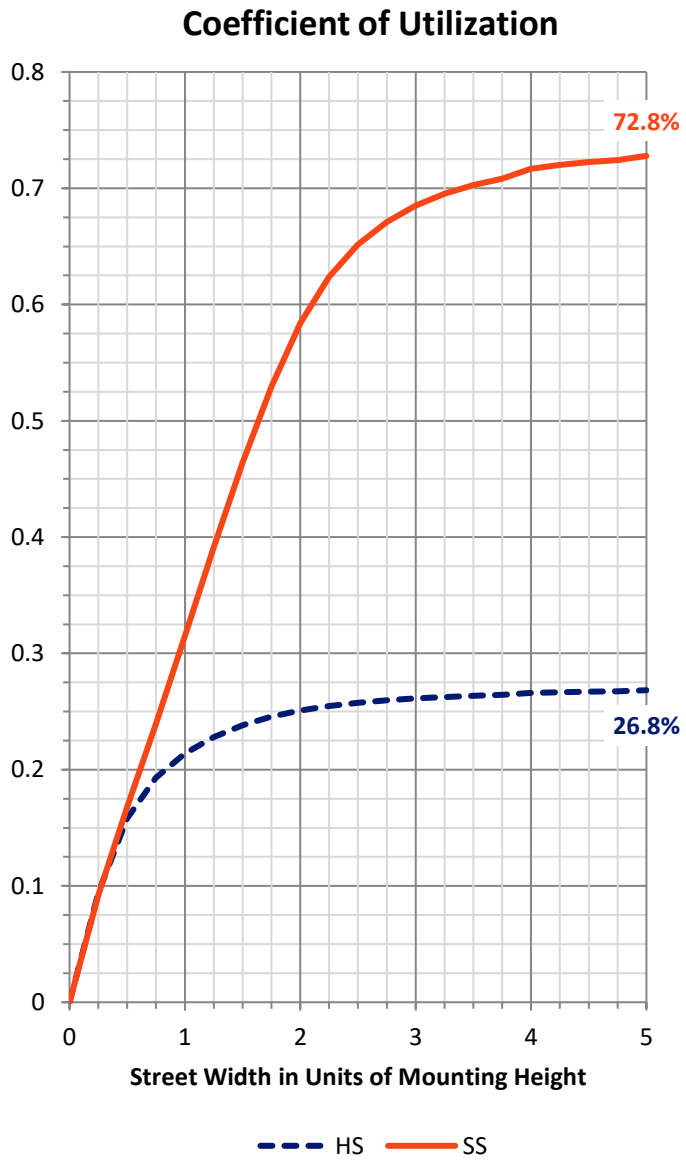
REPORT NUMBER: P1704729
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.7	0.0	1124.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	3028.6	0.0	3028.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	4153.3	0.0	4153.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.6
10°-20°	189.1	4.6
20°-30°	287.1	6.9
30°-40°	348.9	8.4
40°-50°	487.4	11.7
50°-60°	861.2	20.7
60°-70°	1207.1	29.1
70°-80°	636.5	15.3
80°-90°	70.4	1.7
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°	4153.3	100.0
0°-180°	4153.3	100.0



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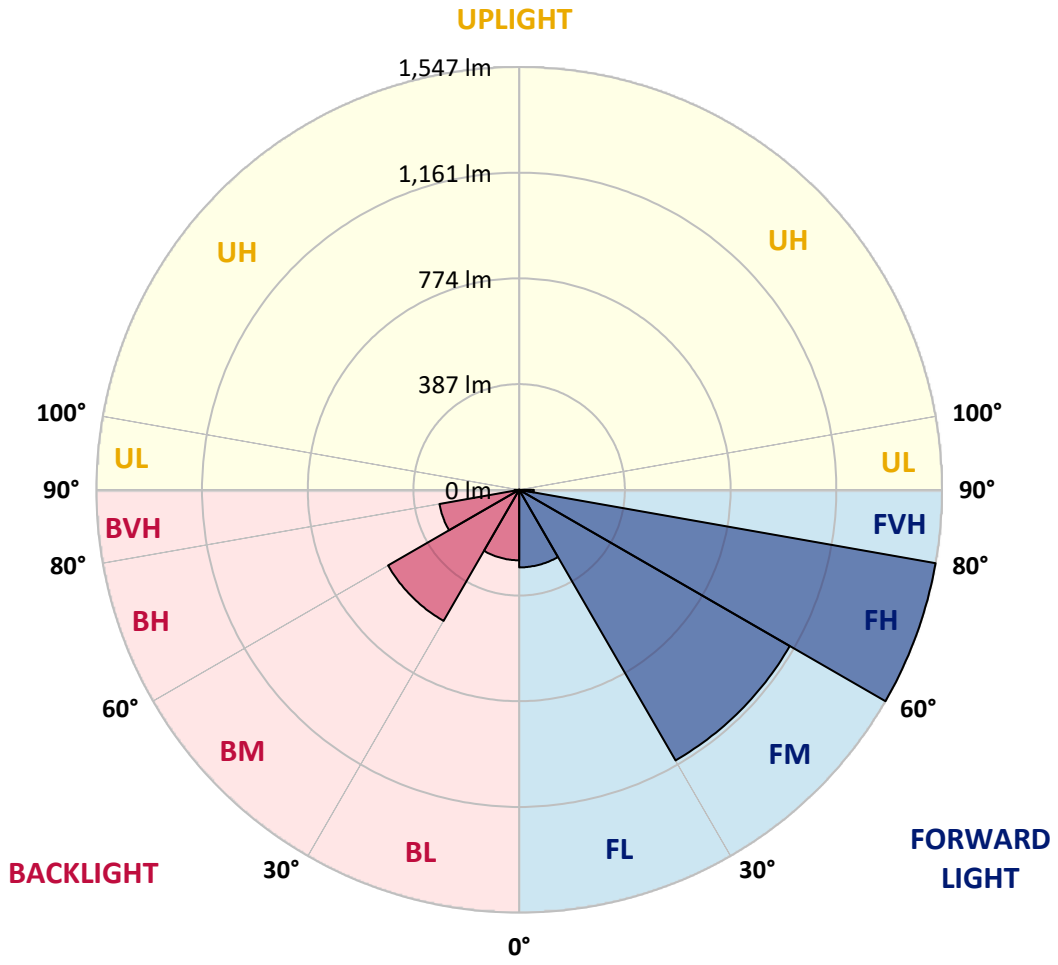
Scaled Data Report

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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°)	283.9	6.8			
FM	(30°-60°)	1143.5	27.5			
FH	(60°-80°)	1547.4	37.3			G1/1800
FVH	(80°-90°)	53.8	1.3			G1/100
BL	(0°-30°)	257.8	6.2	B1/500		
BM	(30°-60°)	554.1	13.3	B1/1000		
BH	(60°-80°)	296.2	7.1	B1/500		G1/500
BVH	(80°-90°)	16.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	700.2	700.2	700.2	700.2	700.2	700.2	*700.2*	700.2	700.2	700.2	700.2
2.5°	742.1	750.0	752.0	754.0	754.0	764.0	*766.0*	764.0	762.0	760.0	758.0
5°	787.9	789.9	793.9	813.9	821.9	831.8	*835.8*	841.8	835.8	827.8	813.9
7.5°	811.9	819.9	829.8	839.8	839.8	847.8	*847.8*	849.8	851.8	851.8	847.8
10°	825.8	827.8	837.8	833.8	825.8	813.9	*805.9*	805.9	817.9	827.8	843.8
12.5°	829.8	829.8	831.8	815.9	778.0	758.0	*738.1*	742.1	756.0	780.0	815.9
15°	823.9	821.9	817.9	770.0	720.1	684.2	*672.2*	676.2	688.2	724.1	784.0
17.5°	819.9	813.9	791.9	724.1	666.3	624.4	*612.4*	610.4	632.4	680.2	748.1
20°	813.9	803.9	766.0	680.2	614.4	576.5	*558.5*	560.5	582.5	634.3	718.1
22.5°	805.9	791.9	748.1	642.3	570.5	530.6	*512.7*	512.7	544.6	604.4	696.2
25°	807.9	789.9	734.1	614.4	544.6	496.7	*474.8*	474.8	510.7	576.5	678.2
27.5°	803.9	789.9	728.1	604.4	520.6	474.8	*444.8*	448.8	482.7	558.5	664.3
30°	813.9	793.9	722.1	590.5	510.7	456.8	*424.9*	430.9	466.8	546.6	654.3
32.5°	833.8	813.9	726.1	590.5	508.7	450.8	*412.9*	422.9	462.8	542.6	654.3
35°	863.7	833.8	734.1	604.4	516.7	458.8	*422.9*	426.9	470.8	544.6	660.3
37.5°	911.6	873.7	766.0	624.4	544.6	494.7	*460.8*	456.8	494.7	554.6	672.2
40°	967.5	929.6	807.9	668.3	606.4	596.4	*570.5*	540.6	550.6	592.5	704.2
42.5°	1049.3	999.4	871.7	744.1	724.1	770.0	*795.9*	724.1	660.3	648.3	748.1
45°	1157.0	1111.1	973.5	855.8	919.6	1055.2	*1101.1*	997.4	849.8	746.1	817.9
47.5°	1350.5	1268.7	1119.1	1011.4	1145.0	1392.4	*1464.2*	1336.5	1089.2	873.7	899.7
50°	1635.7	1557.9	1284.7	1182.9	1390.4	1757.4	*1877.1*	1723.5	1350.5	1051.3	1015.4
52.5°	2138.4	2014.7	1577.9	1342.5	1627.8	2148.4	*2381.8*	2130.4	1633.7	1218.8	1186.9
55°	2816.7	2689.0	2172.3	1518.0	1837.2	2493.5	*2868.5*	2665.1	1901.0	1358.5	1540.0
57.5°	3714.3	3582.7	2896.5	1761.4	1988.8	2772.8	*3315.4*	3095.9	2140.4	1520.0	2096.5
60°	4350.7	4412.5	3919.8	2124.5	2200.3	3072.0	*3832.0*	3600.6	2395.8	1709.5	2962.3
62.5°	4161.2	4352.7	4859.3	3167.7	2708.9	3654.5	*4486.3*	4268.9	2872.5	2373.8	3776.2
65°	*3610.6*	*3782.1*	*4183.1*	*3800.1*	*3313.4*	*4336.7*	*5010.9*	*4857.3*	*3381.2*	*2750.8*	*3459.0*
67.5°	3014.1	3177.7	3622.6	2948.3	3091.9	4274.9	*4895.2*	4761.6	3181.7	2321.9	3331.3
70°	2306.0	2483.5	2960.3	2371.8	2669.0	3824.0	*4009.5*	4274.9	2918.4	2126.5	3129.8
72.5°	1599.8	1827.2	2339.9	1927.0	2068.6	3357.2	*2699.0*	3610.6	2531.4	1915.0	2846.6
75°	1009.4	1176.9	1609.8	1484.1	1659.7	2204.3	*1923.0*	2395.8	2098.5	1647.7	2355.9
77.5°	486.7	556.5	875.7	959.5	1155.0	1410.3	*1159.0*	1669.6	1464.2	1033.3	1426.3
80°	133.7	153.6	225.4	377.0	542.6	871.7	*738.1*	885.7	793.9	588.5	758.0
82.5°	51.9	57.8	65.8	149.6	255.3	468.8	*279.3*	414.9	379.0	195.5	253.3
85°	19.9	21.9	25.9	33.9	135.6	175.5	*99.7*	127.7	173.5	57.8	59.8
87.5°	2.0	2.0	4.0	4.0	4.0	6.0	*12.0*	12.0	8.0	8.0	8.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	754.0	750.0	736.1	728.1	714.1	698.2	688.2	670.3	666.3	652.3	658.3
5°	809.9	795.9	774.0	746.1	718.1	686.2	660.3	632.4	608.4	586.5	584.5
7.5°	837.8	829.8	801.9	766.0	722.1	674.2	642.3	596.4	568.5	544.6	538.6
10°	843.8	837.8	811.9	776.0	734.1	684.2	638.3	586.5	544.6	516.7	506.7
12.5°	821.9	833.8	815.9	782.0	736.1	698.2	656.3	612.4	558.5	514.7	498.7
15°	803.9	821.9	821.9	782.0	740.1	704.2	678.2	650.3	612.4	552.6	526.6
17.5°	787.9	817.9	835.8	791.9	744.1	700.2	684.2	696.2	692.2	626.4	580.5
20°	774.0	817.9	841.8	797.9	732.1	676.2	666.3	718.1	766.0	710.1	644.3
22.5°	756.0	813.9	857.8	795.9	710.1	630.4	636.3	710.1	772.0	752.0	692.2
25°	746.1	815.9	871.7	801.9	670.3	568.5	592.5	670.3	728.1	734.1	680.2
27.5°	736.1	825.8	901.6	801.9	628.4	526.6	560.5	610.4	662.3	672.2	630.4
30°	742.1	835.8	935.6	807.9	586.5	500.7	530.6	566.5	594.5	590.5	558.5
32.5°	746.1	867.7	997.4	823.9	542.6	486.7	508.7	532.6	536.6	528.6	496.7
35°	758.0	905.6	1045.3	849.8	518.6	470.8	486.7	490.7	492.7	480.7	458.8
37.5°	778.0	943.5	1095.1	841.8	520.6	462.8	456.8	450.8	442.8	442.8	422.9
40°	815.9	1003.4	1147.0	811.9	516.7	450.8	420.9	408.9	399.0	401.0	391.0
42.5°	873.7	1087.2	1210.8	752.0	500.7	438.9	389.0	367.0	357.1	363.1	369.0
45°	945.5	1182.9	1282.7	686.2	462.8	418.9	355.1	335.1	325.2	331.1	343.1
47.5°	1031.3	1310.6	1338.5	598.4	422.9	383.0	323.2	301.2	293.2	309.2	325.2
50°	1170.9	1518.0	1408.3	526.6	387.0	343.1	289.2	271.3	275.3	295.2	311.2
52.5°	1470.2	1931.0	1532.0	462.8	369.0	295.2	253.3	249.4	263.3	287.3	301.2
55°	1976.8	2453.6	1607.8	432.9	349.1	267.3	225.4	239.4	253.3	281.3	297.2
57.5°	2768.8	2956.3	1490.1	406.9	339.1	263.3	209.5	231.4	249.4	277.3	291.2
60°	3624.6	3191.7	1252.7	373.0	333.1	275.3	199.5	215.4	241.4	267.3	283.3
62.5°	3778.2	3078.0	909.6	333.1	311.2	281.3	197.5	199.5	219.4	247.4	261.3
65°	*3580.7*	*2730.9*	*572.5*	*285.3*	*279.3*	*275.3*	*201.5*	*173.5*	*199.5*	*221.4*	*231.4*
67.5°	3299.4	2188.3	335.1	225.4	247.4	255.3	197.5	157.6	179.5	195.5	203.5
70°	2946.3	1683.6	229.4	167.6	199.5	223.4	181.5	141.6	159.6	175.5	179.5
72.5°	2397.8	1143.0	159.6	131.7	161.6	167.6	157.6	131.7	141.6	155.6	159.6
75°	1751.4	686.2	103.7	103.7	109.7	133.7	129.7	115.7	121.7	135.6	139.6
77.5°	955.5	289.2	67.8	75.8	71.8	109.7	103.7	93.8	93.8	107.7	111.7
80°	488.7	145.6	47.9	45.9	47.9	81.8	77.8	61.8	67.8	75.8	79.8
82.5°	167.6	63.8	31.9	27.9	31.9	41.9	49.9	43.9	47.9	47.9	45.9
85°	49.9	27.9	18.0	16.0	16.0	18.0	31.9	23.9	23.9	18.0	19.9
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	10.0	10.0	10.0	10.0	10.0
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°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	646.3	642.3	640.3	632.4	632.4	638.3	634.3	640.3	652.3	656.3	658.3
5°	578.5	574.5	564.5	562.5	560.5	562.5	570.5	576.5	592.5	602.4	606.4
7.5°	530.6	520.6	510.7	512.7	512.7	514.7	520.6	532.6	548.6	560.5	572.5
10°	494.7	484.7	482.7	480.7	484.7	490.7	500.7	508.7	532.6	548.6	562.5
12.5°	488.7	476.8	474.8	472.8	480.7	484.7	496.7	510.7	542.6	560.5	576.5
15°	504.7	484.7	482.7	484.7	484.7	498.7	510.7	536.6	578.5	606.4	642.3
17.5°	544.6	500.7	494.7	492.7	498.7	512.7	526.6	564.5	634.3	688.2	730.1
20°	582.5	516.7	498.7	494.7	496.7	512.7	534.6	586.5	696.2	756.0	780.0
22.5°	608.4	518.6	494.7	488.7	490.7	502.7	524.6	592.5	710.1	750.0	770.0
25°	604.4	504.7	474.8	464.8	466.8	478.8	502.7	570.5	656.3	698.2	706.2
27.5°	548.6	476.8	446.8	436.9	434.9	450.8	468.8	512.7	590.5	632.4	640.3
30°	496.7	426.9	412.9	401.0	402.9	414.9	422.9	458.8	540.6	572.5	572.5
32.5°	444.8	393.0	379.0	371.0	371.0	379.0	387.0	422.9	488.7	514.7	524.6
35°	418.9	375.0	359.1	343.1	341.1	353.1	373.0	404.9	454.8	474.8	472.8
37.5°	401.0	367.0	341.1	323.2	317.2	335.1	365.0	391.0	422.9	428.9	430.9
40°	385.0	359.1	333.1	309.2	305.2	325.2	355.1	381.0	395.0	393.0	389.0
42.5°	367.0	355.1	323.2	299.2	295.2	313.2	343.1	363.1	359.1	357.1	349.1
45°	349.1	339.1	307.2	285.3	281.3	297.2	323.2	343.1	339.1	325.2	313.2
47.5°	331.1	325.2	301.2	277.3	273.3	293.2	315.2	333.1	323.2	311.2	299.2
50°	319.2	321.2	303.2	287.3	281.3	299.2	319.2	329.1	313.2	299.2	287.3
52.5°	313.2	325.2	311.2	295.2	293.2	307.2	321.2	325.2	303.2	289.2	277.3
55°	313.2	327.1	317.2	301.2	303.2	309.2	317.2	321.2	295.2	279.3	267.3
57.5°	309.2	325.2	311.2	305.2	305.2	305.2	315.2	313.2	287.3	271.3	259.3
60°	299.2	311.2	303.2	295.2	293.2	299.2	307.2	299.2	273.3	257.3	245.4
62.5°	273.3	289.2	287.3	279.3	273.3	281.3	289.2	279.3	253.3	239.4	233.4
65°	*241.4*	*255.3*	*259.3*	*249.4*	*247.4*	*261.3*	*259.3*	*251.3*	*231.4*	*221.4*	*215.4*
67.5°	209.5	223.4	223.4	221.4	223.4	225.4	231.4	223.4	207.5	201.5	197.5
70°	187.5	197.5	195.5	187.5	187.5	199.5	205.5	205.5	193.5	185.5	183.5
72.5°	163.6	171.6	167.6	161.6	149.6	173.5	183.5	185.5	173.5	167.6	163.6
75°	143.6	149.6	145.6	123.7	123.7	139.6	161.6	159.6	147.6	141.6	139.6
77.5°	117.7	121.7	117.7	99.7	97.7	111.7	129.7	129.7	125.7	117.7	115.7
80°	81.8	89.8	81.8	71.8	69.8	81.8	97.7	99.7	91.8	87.8	85.8
82.5°	49.9	57.8	53.9	43.9	43.9	55.9	61.8	63.8	51.9	45.9	47.9
85°	19.9	23.9	25.9	23.9	18.0	21.9	27.9	23.9	21.9	21.9	21.9
87.5°	10.0	8.0	8.0	6.0	6.0	6.0	6.0	8.0	10.0	10.0	12.0
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: P1704729
CATALOG NUMBER: GSS-SB2A-AMB-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	666.3	672.2	684.2	696.2	712.1	716.1	730.1	736.1	740.1	742.1
5°	628.4	646.3	668.3	690.2	714.1	736.1	758.0	778.0	784.0	787.9
7.5°	604.4	630.4	656.3	688.2	714.1	736.1	778.0	799.9	809.9	811.9
10°	600.4	636.3	668.3	694.2	718.1	744.1	780.0	813.9	821.9	825.8
12.5°	624.4	664.3	684.2	704.2	726.1	742.1	786.0	821.9	829.8	829.8
15°	682.2	688.2	692.2	700.2	722.1	750.0	791.9	819.9	825.8	823.9
17.5°	754.0	704.2	666.3	678.2	718.1	750.0	797.9	823.9	819.9	819.9
20°	762.0	688.2	628.4	634.3	692.2	750.0	805.9	825.8	817.9	813.9
22.5°	726.1	660.3	594.5	580.5	660.3	756.0	821.9	835.8	811.9	805.9
25°	676.2	622.4	572.5	538.6	626.4	756.0	845.8	849.8	817.9	807.9
27.5°	622.4	590.5	548.6	512.7	590.5	770.0	889.7	871.7	821.9	803.9
30°	568.5	550.6	526.6	494.7	562.5	795.9	941.5	911.6	837.8	813.9
32.5°	522.6	518.6	500.7	482.7	544.6	825.8	1001.4	955.5	859.8	833.8
35°	472.8	476.8	470.8	474.8	538.6	841.8	1063.2	1017.3	903.6	863.7
37.5°	432.9	438.9	440.9	474.8	532.6	833.8	1113.1	1083.2	943.5	911.6
40°	395.0	402.9	418.9	474.8	512.7	789.9	1180.9	1161.0	1011.4	967.5
42.5°	355.1	367.0	393.0	464.8	480.7	732.1	1252.7	1272.7	1097.1	1049.3
45°	321.2	333.1	365.0	418.9	444.8	668.3	1322.6	1422.3	1218.8	1157.0
47.5°	287.3	299.2	333.1	375.0	408.9	600.4	1428.3	1643.7	1402.3	1350.5
50°	271.3	267.3	289.2	333.1	399.0	550.6	1607.8	1962.9	1717.5	1635.7
52.5°	261.3	253.3	251.3	297.2	391.0	520.6	1787.3	2521.4	2204.3	2138.4
55°	253.3	243.4	233.4	293.2	379.0	478.8	1839.2	3137.8	2978.2	2816.7
57.5°	247.4	235.4	223.4	309.2	377.0	424.9	1655.7	3526.8	3754.2	3714.3
60°	231.4	223.4	221.4	315.2	361.1	369.0	1270.7	3502.9	4294.8	4350.7
62.5°	219.4	203.5	231.4	317.2	321.2	307.2	815.9	3050.1	3983.6	4161.2
65°	*205.5*	*183.5*	*243.4*	*301.2*	*271.3*	*245.4*	*416.9*	*2407.7*	*3347.3*	*3610.6*
67.5°	187.5	167.6	245.4	261.3	225.4	179.5	265.3	1843.2	2836.6	3014.1
70°	173.5	159.6	211.4	217.4	175.5	139.6	163.6	1182.9	2104.5	2306.0
72.5°	155.6	149.6	185.5	159.6	133.7	107.7	105.7	612.4	1450.2	1599.8
75°	129.7	133.7	159.6	133.7	89.8	83.8	75.8	295.2	835.8	1009.4
77.5°	107.7	103.7	129.7	103.7	67.8	57.8	55.9	121.7	414.9	486.7
80°	79.8	75.8	95.8	71.8	43.9	35.9	37.9	65.8	99.7	133.7
82.5°	53.9	51.9	65.8	35.9	25.9	21.9	23.9	35.9	49.9	51.9
85°	23.9	25.9	29.9	18.0	12.0	10.0	10.0	14.0	18.0	19.9
87.5°	12.0	10.0	8.0	6.0	4.0	4.0	2.0	2.0	2.0	2.0
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: SP3-2509-541-1

Test Date: 09/16/2025

Luminaire Tested: GALN-SA1A-AMB-U-T3BC

Data in this report applies to families of products including GALN-SA1A*

Report Generated By FNC07603 / LDUCLS01DT01661
Version: v7.05

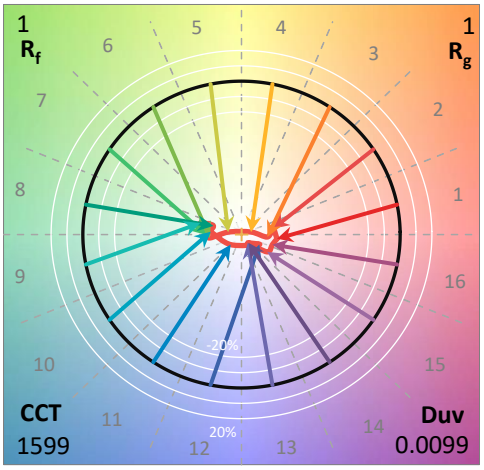
Test Information

Test Method:	LM-79-2019
Report Number:	SP3-2509-541-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP3 - 3M SPHERE
Measurement Geometry:	4π
Issue Date:	10/02/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GALN-SA1A-AMB-U-T3BC**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) AMBER, 615MA LIGHTSQUARES TYPE III ROADWAY OPTICS WITH ANGLED BACKLIGHT CONTROL HEATSINK

Spectral Parameters

CCT (K):	1599
CIE u':	0.3452
CIE v':	0.5480
Duv:	0.0099
CIE x:	0.5859
CIE y:	0.4133
CIE z:	0.0008
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	591
Purity:	99.94224
Rf:	1.2
Rg:	0.9

CRI (Ra):	-22.7				
R1:	-36.4	R9:	-395.3		
R2:	50.8	R10:	26.0		
R3:	18.3	R11:	-97.2		
R4:	-69.1	R12:	-14.1		
R5:	-41.9	R13:	-17.6		
R6:	38.5	R14:	46.4		
R7:	-6.7	R15:	-69.4		
R8:	-135.4				



Test Conditions

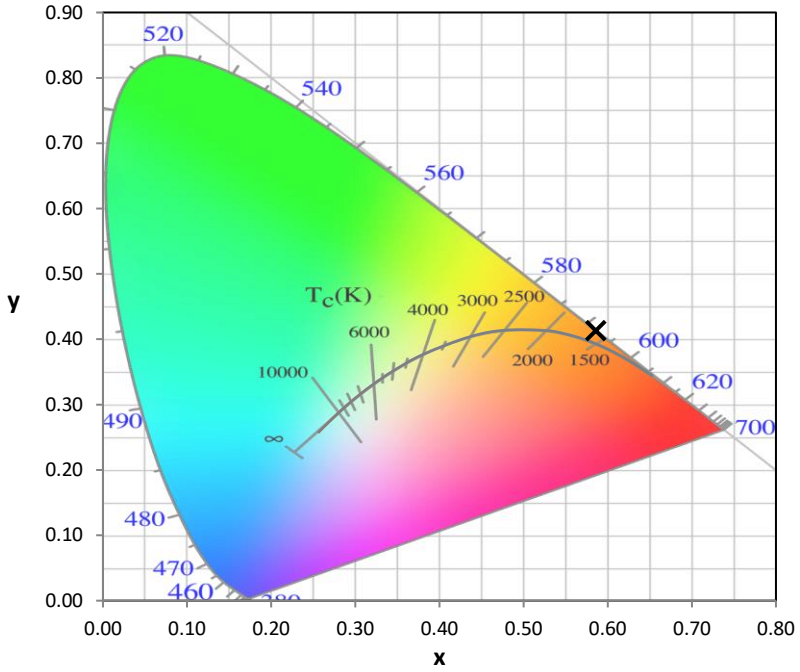
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

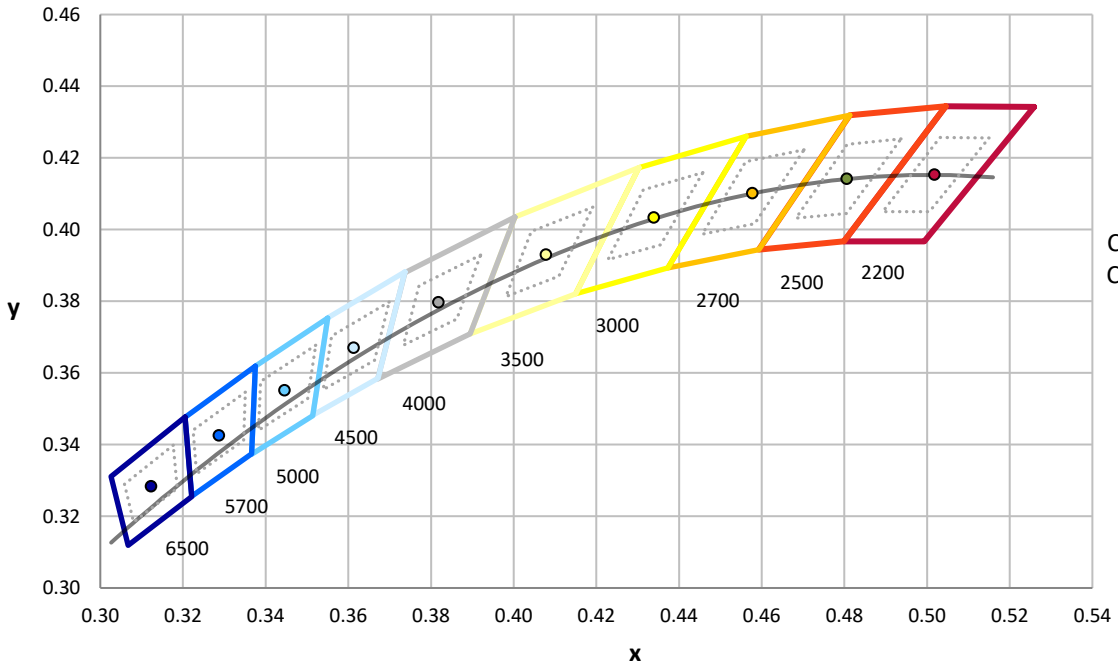
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024	10/22/2025
Sphere Thermometer	TANDD IN4036E	10/22/2024	10/22/2025

REPORT NUMBER: SP3-2509-541-1

CIE 1931 Chromaticity Diagram



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

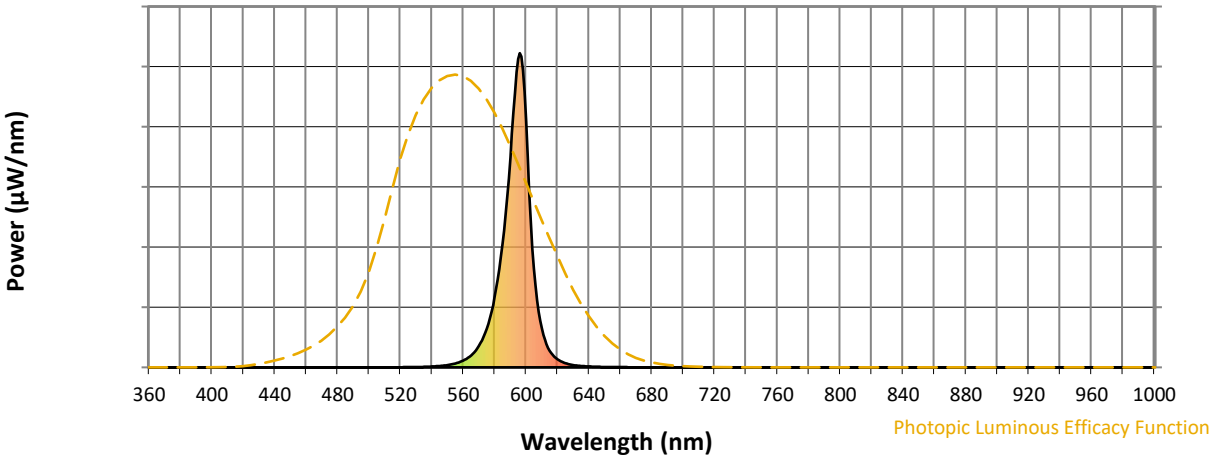


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

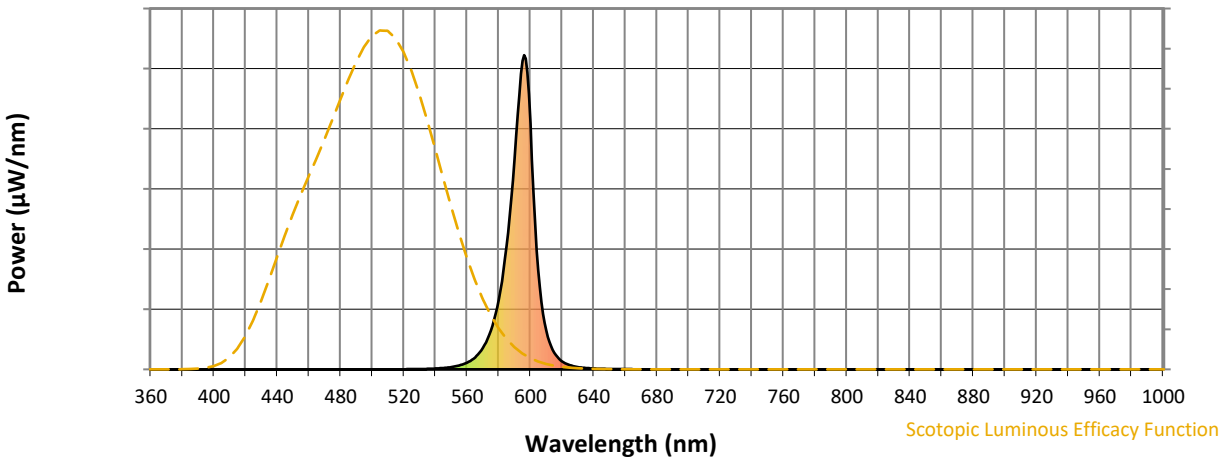


Photopic Lumens: NR

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	0	NR	620	26	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	8	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	68	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	123	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	223	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	392	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	669	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	982	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	783	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	315	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	124	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	53	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP3-2509-541-1

Scotopic Flux vs. Wavelength

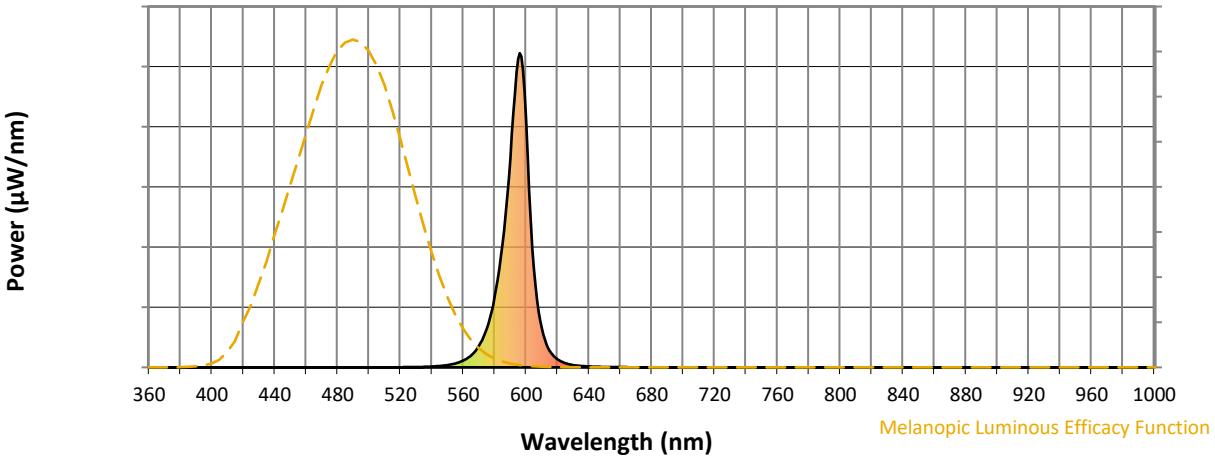


Scotopic Lumens: NR **S/P: 0.23**

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	0	NR	620	26	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	8	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	68	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	123	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	223	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	392	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	669	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	982	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	783	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	315	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	124	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	53	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP3-2509-541-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.13**

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	0	NR	620	26	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	8	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	4	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	12	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	22	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	38	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	68	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	123	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	223	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	392	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	669	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	982	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	783	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	315	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	124	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	53	NR	745	0	NR	875	0	NR			

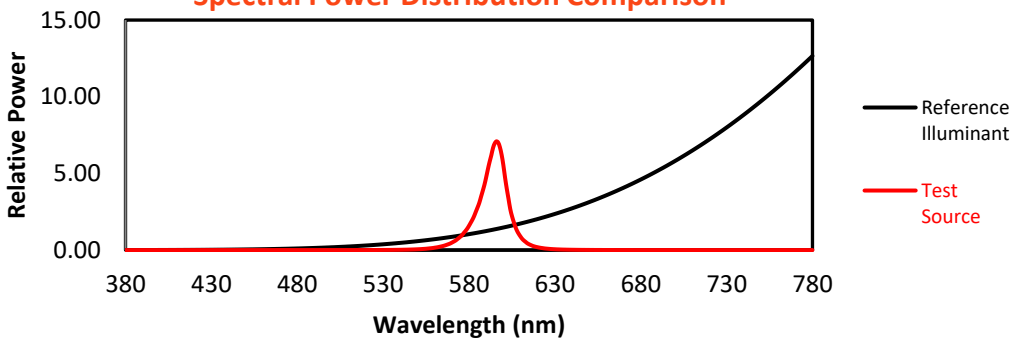
REPORT NUMBER: SP3-2509-541-1

TM-30-18

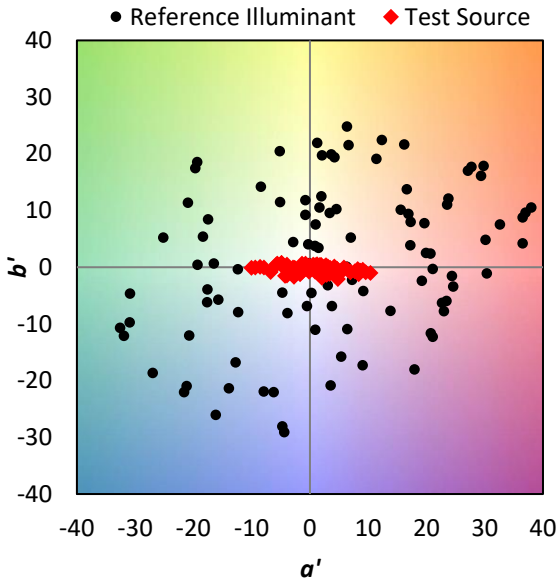
Summary

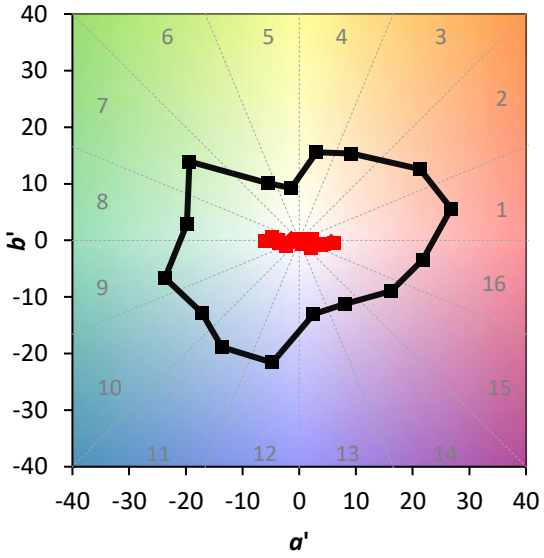
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

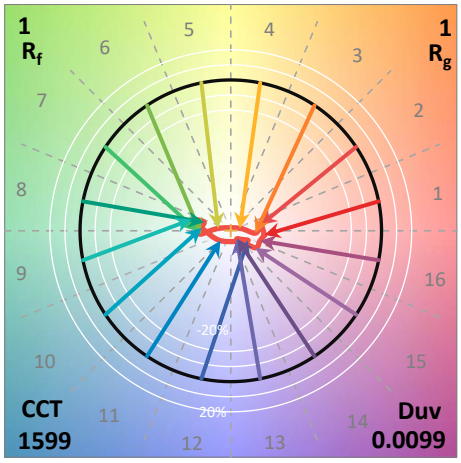
Spectral Power Distribution Comparison

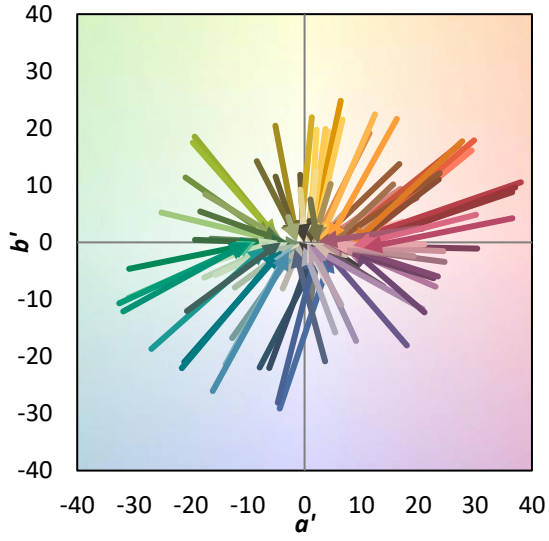


Color Vector Graphics







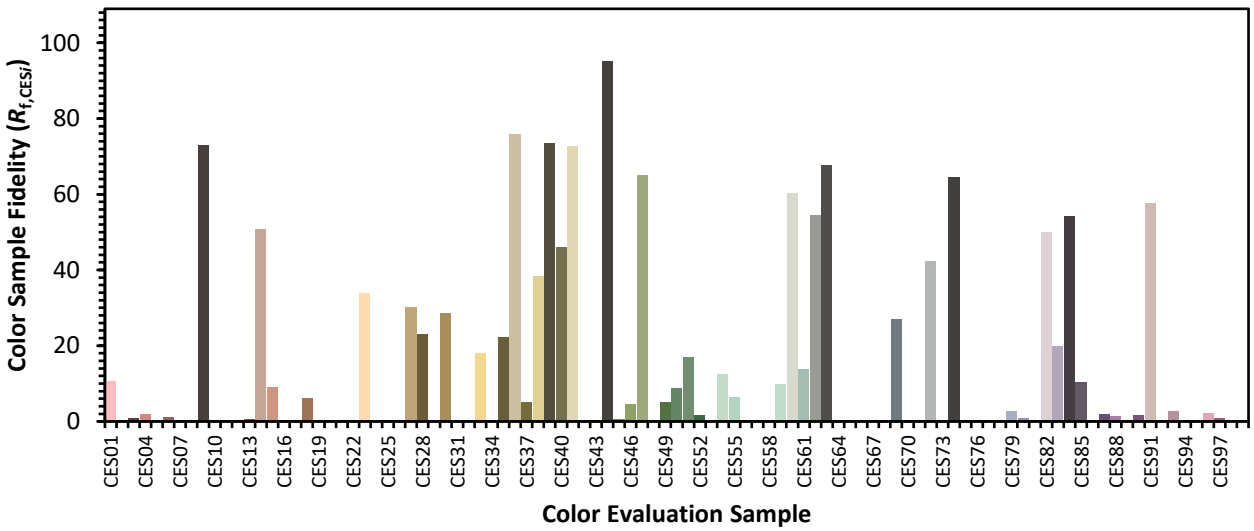


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

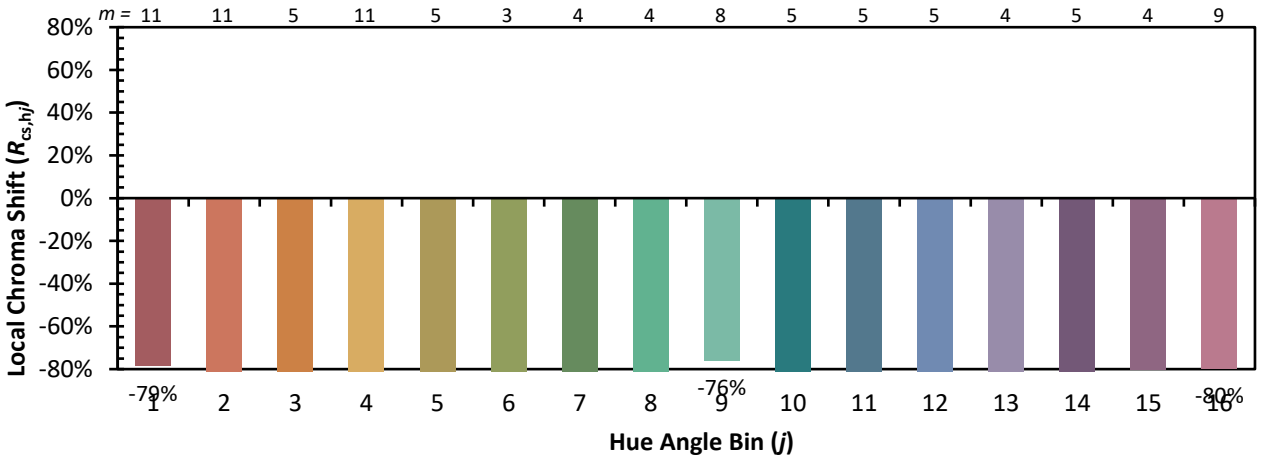
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 18	CES58 = 0	CES83 = 20
CES09 = 29	CES34 = 0	CES59 = 10	CES84 = 54
CES10 = 87	CES35 = 22	CES60 = 60	CES85 = 10
CES11 = 70	CES36 = 76	CES61 = 14	CES86 = 0
CES12 = 75	CES37 = 5	CES62 = 55	CES87 = 2
CES13 = 46	CES38 = 38	CES63 = 68	CES88 = 1
CES14 = 76	CES39 = 73	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 46	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 73	CES66 = 0	CES91 = 58
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 59	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 95	CES69 = 27	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 5	CES71 = 0	CES96 = 2
CES22 = 86	CES47 = 65	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 5	CES74 = 65	CES99 = 0
CES25 = 79	CES50 = 9	CES75 = 0	

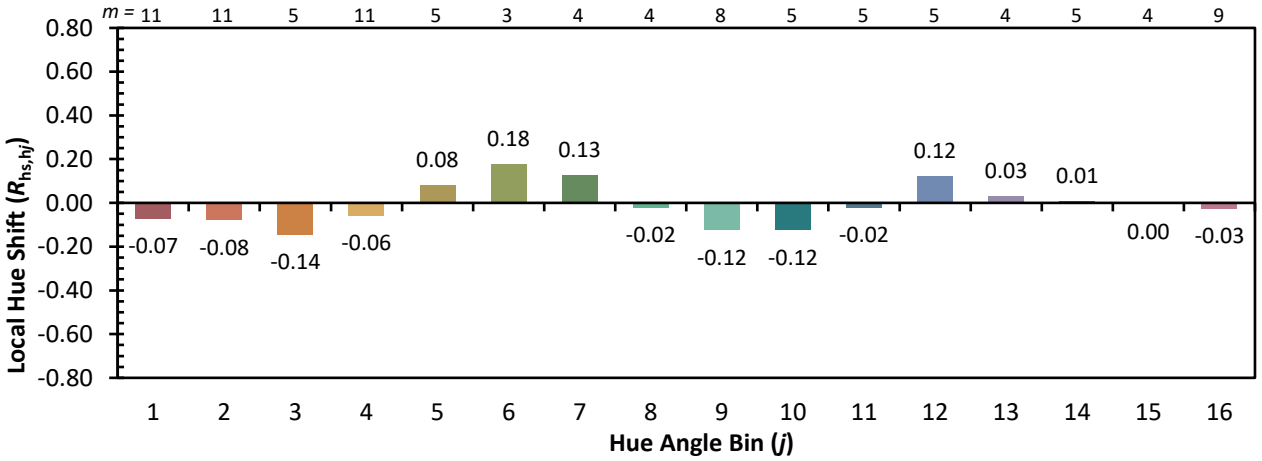


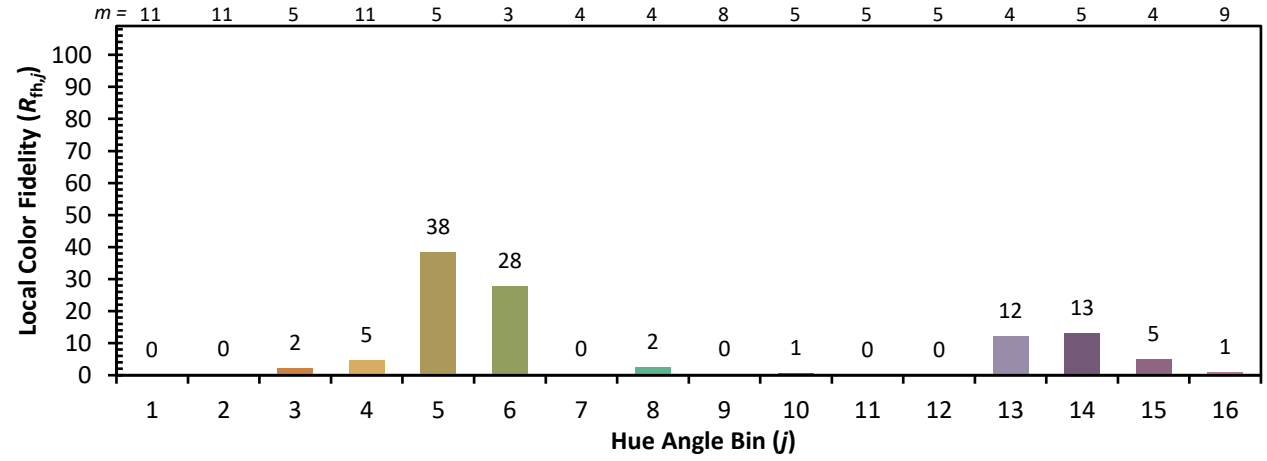
REPORT NUMBER: SP3-2509-541-1

TM-30-18

Color Rendition by Hue-Angle Bin



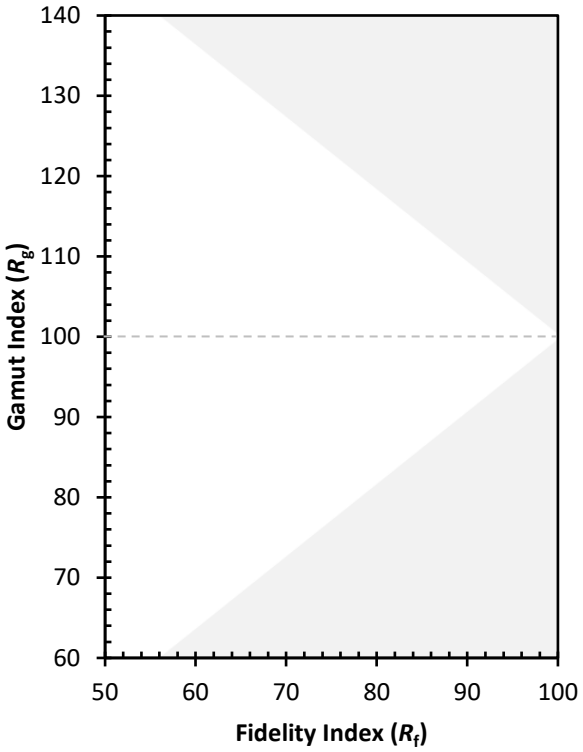


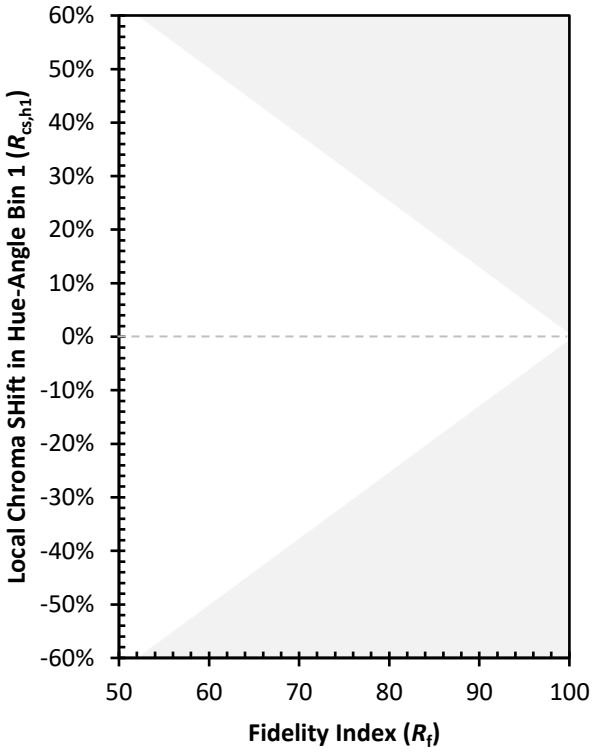


REPORT NUMBER: SP3-2509-541-1

TM-30-18

Measure Comparisons





(END OF REPORT)