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-SLR

Issue Date: 10/28/2026

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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-SLR
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 2SQUARE 68W 1590K FIXTURE w/ RIGHT 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:	4164.8 lumens
Efficiency:	N/A
Efficacy:	61.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - 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

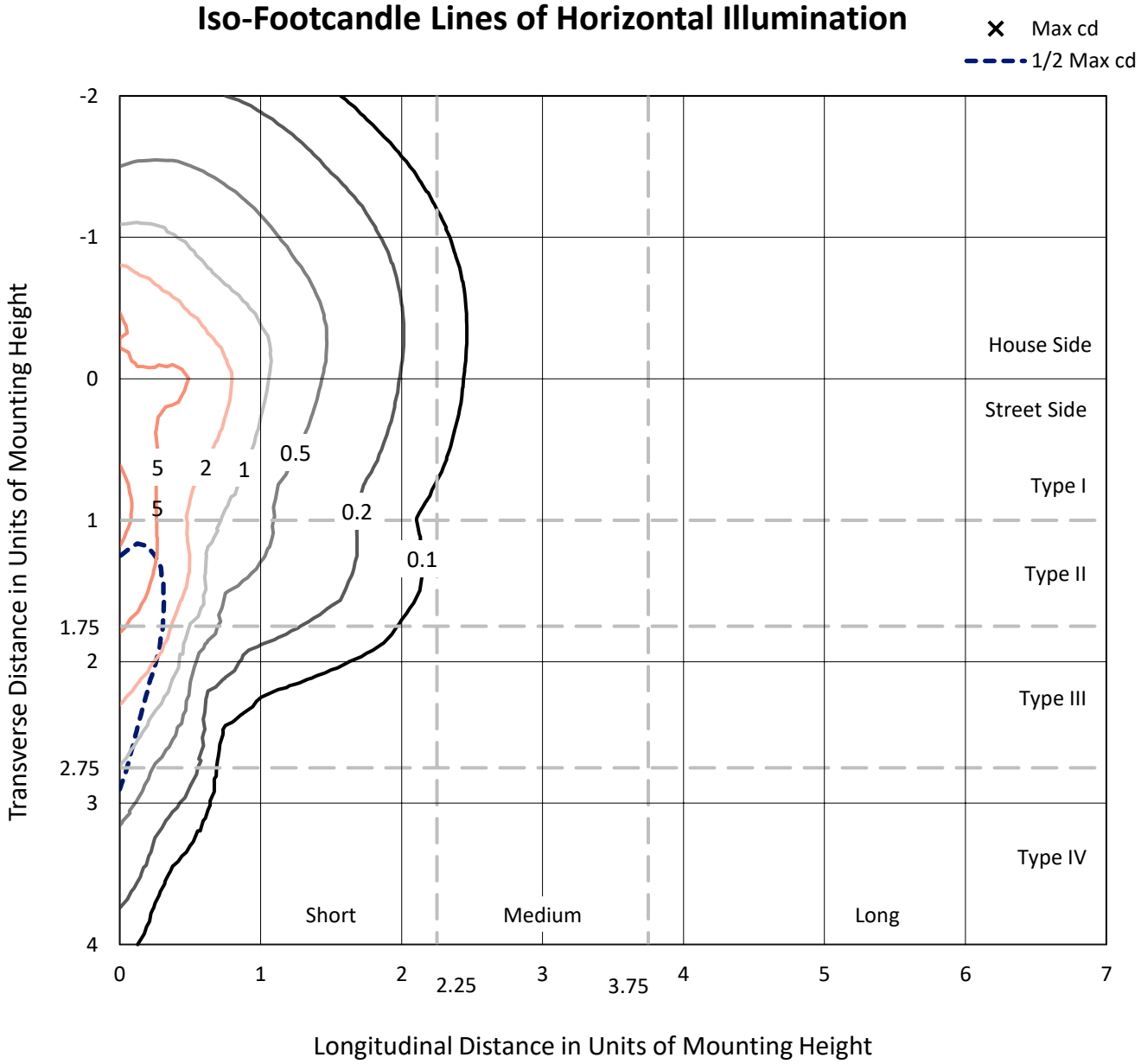


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Iso-Footcandle Lines of Horizontal Illumination



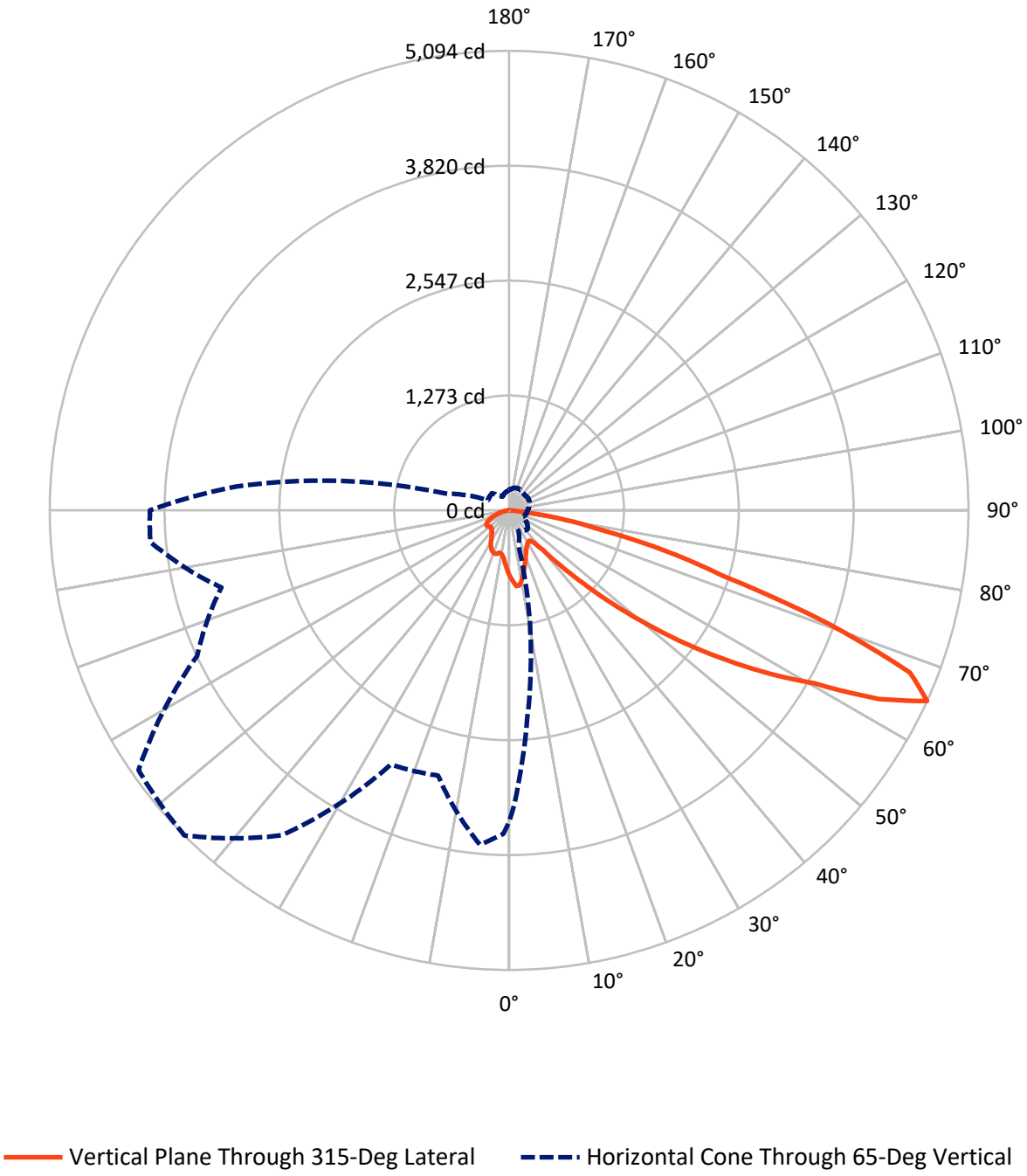
Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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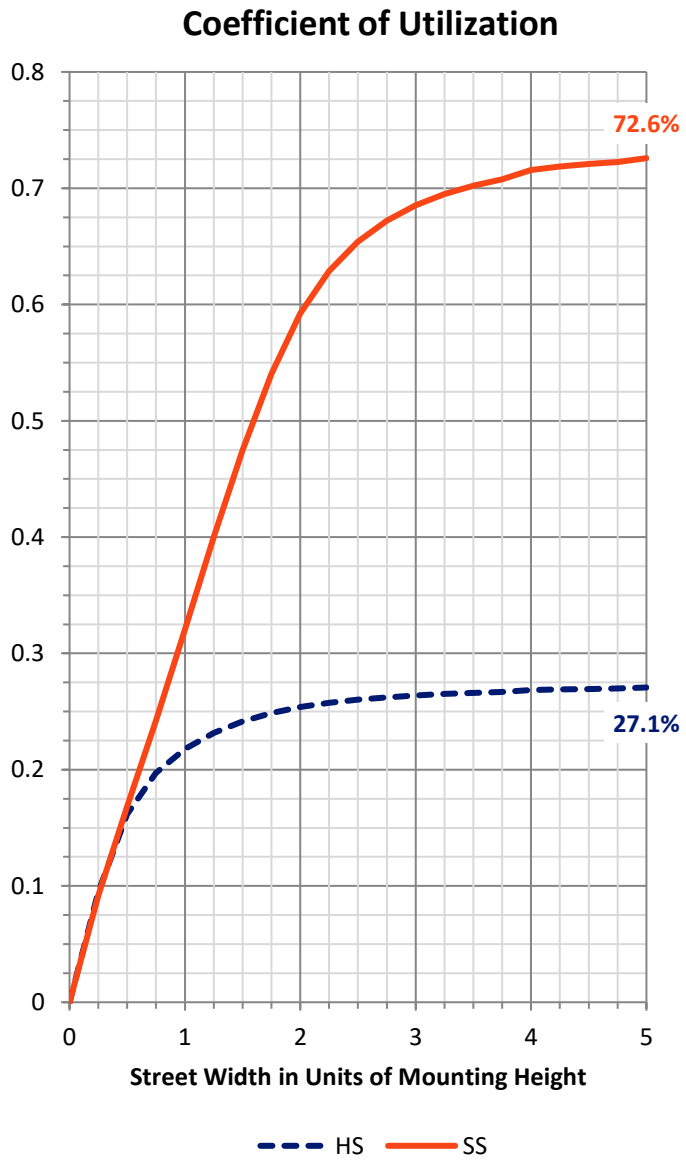
REPORT NUMBER: P1704729
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.7	0.0	1136.7
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	3028.1	0.0	3028.1
	% Fixture	72.7	0.0	72.7
Total	Lumens	4164.8	0.0	4164.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.6
10°-20°	190.0	4.6
20°-30°	288.6	6.9
30°-40°	350.2	8.4
40°-50°	501.8	12.0
50°-60°	890.5	21.4
60°-70°	1222.5	29.4
70°-80°	596.9	14.3
80°-90°	57.4	1.4
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°	4164.8	100.0
0°-180°	4164.8	100.0



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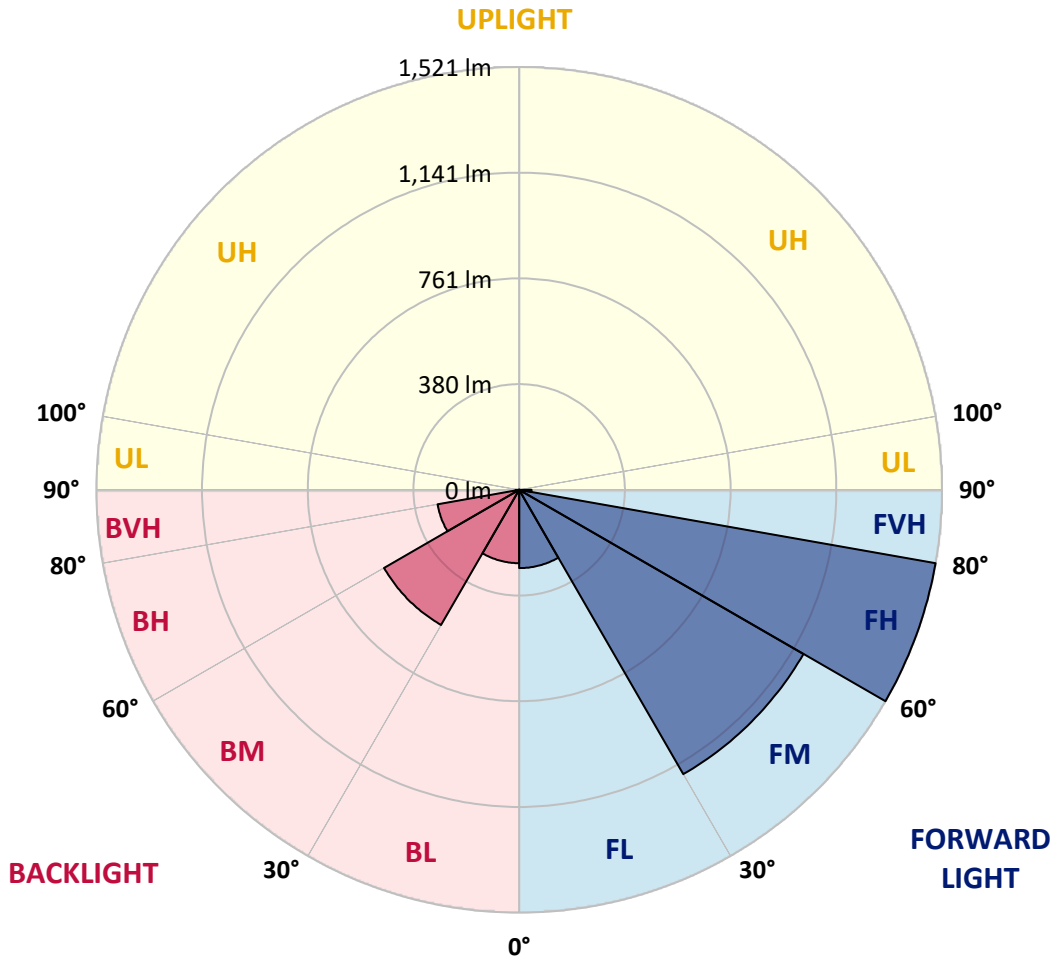
Scaled Data Report

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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°)	281.6	6.8			
FM	(30°-60°)	1181.0	28.4			
FH	(60°-80°)	1521.2	36.5			G1/1800
FVH	(80°-90°)	44.3	1.1			G1/100
BL	(0°-30°)	263.8	6.3	B1/500		
BM	(30°-60°)	561.6	13.5	B1/1000		
BH	(60°-80°)	298.2	7.2	B1/500		G1/500
BVH	(80°-90°)	13.1	0.3			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2
2.5°	772.1	772.1	770.1	760.1	746.2	736.2	724.2	710.3	694.3	686.3	680.3
5°	822.0	812.0	806.0	786.1	758.2	734.2	712.3	690.3	664.4	640.4	624.5
7.5°	834.0	830.0	830.0	796.1	766.1	734.2	710.3	682.3	648.4	618.5	580.6
10°	834.0	832.0	826.0	810.0	766.1	732.2	710.3	684.3	654.4	616.5	580.6
12.5°	828.0	830.0	832.0	814.0	770.1	738.2	708.3	690.3	668.4	644.4	610.5
15°	818.0	820.0	832.0	824.0	778.1	728.2	700.3	678.3	680.3	694.3	676.4
17.5°	812.0	812.0	838.0	834.0	780.1	732.2	672.4	654.4	682.3	744.2	752.2
20°	802.0	808.0	841.9	841.9	780.1	698.3	626.5	618.5	676.4	750.2	798.1
22.5°	792.1	798.1	845.9	859.9	788.1	674.4	570.6	576.6	644.4	718.2	782.1
25°	784.1	790.1	851.9	893.8	794.1	638.4	526.7	548.7	604.5	658.4	718.2
27.5°	782.1	798.1	871.9	939.7	806.0	606.5	502.8	532.7	570.6	606.5	640.4
30°	790.1	802.0	895.8	981.6	836.0	572.6	490.8	518.7	544.7	570.6	576.6
32.5°	812.0	826.0	939.7	1039.5	855.9	564.6	486.8	502.8	514.7	518.7	526.7
35°	834.0	857.9	1001.6	1095.3	865.9	556.6	488.8	476.8	478.8	476.8	474.8
37.5°	879.9	905.8	1069.4	1161.2	841.9	542.7	488.8	448.9	438.9	427.0	431.0
40°	951.7	973.6	1167.2	1241.0	796.1	516.7	476.8	421.0	399.0	387.1	383.1
42.5°	1059.4	1095.3	1314.8	1326.8	740.2	480.8	454.9	385.1	357.1	347.2	341.2
45°	1213.0	1258.9	1542.2	1458.4	680.3	440.9	417.0	355.1	323.2	311.2	311.2
47.5°	1474.4	1536.3	1839.5	1624.0	612.5	415.0	369.1	315.2	285.3	279.3	285.3
50°	1883.4	1963.2	2322.3	1819.6	552.7	399.0	331.2	275.3	257.4	259.4	273.3
52.5°	2416.1	2541.8	2900.9	1883.4	516.7	387.1	309.2	245.4	241.4	247.4	263.4
55°	3088.5	3240.1	3391.7	1721.8	470.9	385.1	301.3	225.5	231.4	241.4	257.4
57.5°	3958.4	3942.4	3591.3	1472.4	423.0	377.1	309.2	215.5	219.5	231.4	245.4
60°	4413.2	4281.6	3451.6	1093.3	367.1	353.1	319.2	221.5	209.5	221.5	233.4
62.5°	4104.0	3884.5	2982.7	702.3	309.2	317.2	319.2	233.4	187.5	203.5	215.5
65°	*3453.6*	*3260.1*	*2310.4*	*409.0*	*249.4*	*275.3*	*293.3*	*241.4*	*169.6*	*187.5*	*199.5*
67.5°	2986.7	2779.2	1751.7	255.4	189.5	219.5	257.4	233.4	155.6	169.6	179.6
70°	2452.0	2216.6	1235.0	175.6	145.6	173.6	213.5	205.5	145.6	151.6	165.6
72.5°	1793.6	1624.0	718.2	115.7	115.7	127.7	153.6	169.6	135.7	137.7	147.6
75°	1173.1	1029.5	365.1	77.8	85.8	87.8	123.7	131.7	117.7	115.7	127.7
77.5°	514.7	464.9	157.6	53.9	57.9	61.8	91.8	103.7	93.8	89.8	99.8
80°	231.4	201.5	85.8	39.9	35.9	39.9	57.9	79.8	65.8	65.8	71.8
82.5°	67.8	63.8	45.9	25.9	21.9	23.9	29.9	47.9	47.9	43.9	45.9
85°	25.9	21.9	18.0	10.0	10.0	10.0	14.0	27.9	23.9	21.9	18.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	6.0	8.0	6.0
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°	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2
2.5°	676.4	668.4	660.4	652.4	658.4	652.4	656.4	660.4	666.4	672.4	674.4
5°	612.5	604.5	590.6	586.6	580.6	580.6	574.6	584.6	592.6	606.5	612.5
7.5°	572.6	564.6	542.7	534.7	526.7	522.7	524.7	536.7	544.7	556.6	564.6
10°	558.6	540.7	520.7	506.8	496.8	492.8	492.8	496.8	506.8	518.7	528.7
12.5°	582.6	560.6	522.7	502.8	488.8	480.8	484.8	486.8	494.8	506.8	516.7
15°	648.4	612.5	546.7	516.7	500.8	490.8	488.8	490.8	496.8	518.7	534.7
17.5°	732.2	680.3	584.6	530.7	510.8	504.8	496.8	500.8	512.8	544.7	578.6
20°	782.1	736.2	606.5	540.7	512.8	502.8	502.8	510.8	530.7	594.6	646.4
22.5°	786.1	742.2	602.5	530.7	504.8	492.8	496.8	504.8	536.7	626.5	714.3
25°	736.2	698.3	572.6	508.8	484.8	470.9	472.8	488.8	522.7	648.4	716.3
27.5°	648.4	630.5	514.7	468.9	448.9	442.9	448.9	462.9	498.8	604.5	656.4
30°	576.6	552.7	458.9	427.0	411.0	409.0	411.0	427.0	452.9	524.7	582.6
32.5°	524.7	494.8	415.0	391.0	379.1	369.1	377.1	393.0	403.0	474.8	518.7
35°	472.8	458.9	397.0	369.1	347.2	339.2	349.1	355.1	377.1	434.9	464.9
37.5°	429.0	415.0	385.1	355.1	331.2	317.2	325.2	339.2	365.1	409.0	432.9
40°	385.1	383.1	373.1	347.2	317.2	299.3	307.3	335.2	365.1	391.0	401.0
42.5°	351.1	353.1	355.1	333.2	305.3	291.3	297.3	327.2	361.1	371.1	369.1
45°	317.2	331.2	339.2	317.2	291.3	277.3	285.3	317.2	345.2	349.1	341.2
47.5°	297.3	311.2	321.2	303.3	287.3	271.3	281.3	309.2	333.2	335.2	319.2
50°	287.3	299.3	311.2	301.3	287.3	279.3	289.3	317.2	333.2	323.2	311.2
52.5°	275.3	291.3	311.2	305.3	293.3	287.3	301.3	327.2	339.2	321.2	303.3
55°	265.4	281.3	303.3	305.3	295.3	299.3	313.2	327.2	341.2	323.2	299.3
57.5°	257.4	273.3	295.3	297.3	291.3	299.3	311.2	323.2	335.2	309.2	289.3
60°	245.4	257.4	285.3	289.3	285.3	291.3	299.3	315.2	319.2	293.3	273.3
62.5°	225.5	239.4	261.4	273.3	271.3	269.3	275.3	293.3	293.3	267.3	249.4
65°	*203.5*	*215.5*	*235.4*	*247.4*	*249.4*	*241.4*	*253.4*	*263.4*	*259.4*	*237.4*	*227.4*
67.5°	183.6	191.5	207.5	215.5	217.5	213.5	217.5	227.4	219.5	209.5	199.5
70°	165.6	173.6	187.5	191.5	187.5	183.6	185.5	195.5	199.5	189.5	181.6
72.5°	149.6	153.6	163.6	167.6	157.6	141.7	159.6	175.6	179.6	167.6	161.6
75°	129.7	133.7	143.7	143.7	123.7	115.7	125.7	149.6	155.6	145.6	137.7
77.5°	101.8	109.7	121.7	121.7	99.8	91.8	99.8	121.7	121.7	117.7	111.7
80°	71.8	75.8	81.8	81.8	75.8	65.8	69.8	85.8	91.8	91.8	85.8
82.5°	43.9	43.9	51.9	51.9	43.9	39.9	47.9	53.9	55.9	51.9	43.9
85°	16.0	16.0	21.9	23.9	20.0	16.0	16.0	23.9	20.0	16.0	16.0
87.5°	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2	722.2
2.5°	676.4	688.3	700.3	708.3	722.2	736.2	744.2	756.2	764.1	768.1	772.1
5°	622.5	644.4	668.4	690.3	714.3	748.2	766.1	792.1	808.0	816.0	820.0
7.5°	576.6	598.5	640.4	670.4	710.3	748.2	776.1	810.0	824.0	834.0	836.0
10°	544.7	576.6	622.5	674.4	708.3	746.2	778.1	816.0	830.0	832.0	830.0
12.5°	536.7	584.6	642.4	686.3	718.2	748.2	778.1	820.0	826.0	818.0	806.0
15°	556.6	620.5	678.3	710.3	734.2	758.2	788.1	824.0	816.0	798.1	770.1
17.5°	620.5	706.3	726.2	724.2	746.2	764.1	790.1	824.0	802.0	774.1	742.2
20°	714.3	784.1	750.2	714.3	728.2	758.2	798.1	826.0	790.1	750.2	702.3
22.5°	778.1	808.0	740.2	676.4	676.4	738.2	798.1	838.0	782.1	728.2	676.4
25°	768.1	760.1	688.3	626.5	608.5	706.3	800.1	851.9	782.1	716.3	652.4
27.5°	704.3	684.3	626.5	582.6	550.7	660.4	806.0	879.9	792.1	712.3	642.4
30°	612.5	614.5	586.6	542.7	508.8	624.5	816.0	927.7	812.0	712.3	638.4
32.5°	542.7	550.7	538.7	518.7	484.8	586.6	847.9	985.6	838.0	716.3	636.4
35°	484.8	492.8	496.8	482.8	466.9	554.6	887.8	1047.4	875.9	740.2	644.4
37.5°	438.9	444.9	452.9	450.9	456.9	548.7	907.8	1103.3	921.8	758.2	658.4
40°	399.0	399.0	413.0	415.0	444.9	530.7	897.8	1155.2	973.6	790.1	690.3
42.5°	363.1	361.1	369.1	387.1	444.9	504.8	851.9	1211.0	1045.5	841.9	736.2
45°	331.2	325.2	337.2	357.1	432.9	464.9	786.1	1274.9	1143.2	913.8	804.0
47.5°	305.3	295.3	305.3	333.2	397.0	417.0	700.3	1348.7	1251.0	997.6	899.8
50°	293.3	271.3	265.4	301.3	347.2	381.1	620.5	1424.5	1410.6	1125.3	1013.5
52.5°	285.3	255.4	243.4	253.4	299.3	367.1	538.7	1606.1	1771.7	1364.7	1185.1
55°	279.3	249.4	235.4	225.5	263.4	355.1	478.8	1745.7	2380.2	1967.2	1546.2
57.5°	267.3	237.4	223.5	205.5	265.4	341.2	429.0	1805.6	3152.3	2777.2	2142.8
60°	253.4	227.4	207.5	195.5	267.3	329.2	375.1	1663.9	3489.5	3816.7	2980.7
62.5°	235.4	207.5	189.5	193.5	275.3	299.3	321.2	1225.0	3483.5	4229.7	4355.4
65°	*213.5*	*195.5*	*169.6*	*197.5*	*267.3*	*263.4*	*261.4*	*708.3*	*3036.6*	*3982.3*	*3994.3*
67.5°	191.5	175.6	155.6	197.5	243.4	227.4	193.5	381.1	2446.0	3529.4	3641.1
70°	173.6	159.6	141.7	175.6	205.5	179.6	143.7	219.5	1737.8	2831.1	3192.2
72.5°	155.6	141.7	129.7	153.6	153.6	135.7	105.7	125.7	1053.4	2112.9	2651.5
75°	131.7	119.7	115.7	135.7	121.7	85.8	81.8	79.8	548.7	1450.5	1995.1
77.5°	107.7	93.8	89.8	113.7	97.8	59.9	55.9	51.9	241.4	840.0	1292.9
80°	85.8	71.8	61.8	83.8	67.8	37.9	31.9	33.9	73.8	223.5	367.1
82.5°	41.9	41.9	39.9	55.9	35.9	21.9	18.0	21.9	39.9	71.8	103.7
85°	16.0	16.0	18.0	25.9	14.0	8.0	6.0	8.0	12.0	18.0	21.9
87.5°	2.0	4.0	2.0	2.0	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: P1704729
CATALOG NUMBER: GSS-SB2A-AMB-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	722.2	722.2	722.2	*722.2*	722.2	722.2	722.2	722.2	722.2	722.2
2.5°	776.1	780.1	782.1	*782.1*	786.1	782.1	776.1	774.1	772.1	772.1
5°	830.0	834.0	838.0	*841.9*	840.0	836.0	826.0	818.0	816.0	822.0
7.5°	840.0	838.0	836.0	*838.0*	832.0	832.0	841.9	836.0	832.0	834.0
10°	814.0	792.1	788.1	*780.1*	784.1	788.1	814.0	832.0	828.0	834.0
12.5°	768.1	736.2	714.3	*706.3*	714.3	732.2	772.1	816.0	822.0	828.0
15°	718.2	670.4	650.4	*644.4*	652.4	676.4	720.2	792.1	812.0	818.0
17.5°	666.4	620.5	592.6	*582.6*	596.5	622.5	684.3	770.1	798.1	812.0
20°	618.5	570.6	540.7	*528.7*	544.7	584.6	650.4	744.2	784.1	802.0
22.5°	584.6	528.7	496.8	*484.8*	504.8	548.7	616.5	722.2	774.1	792.1
25°	558.6	498.8	460.9	*450.9*	478.8	518.7	596.5	706.3	762.1	784.1
27.5°	540.7	472.8	436.9	*427.0*	452.9	502.8	582.6	688.3	760.1	782.1
30°	530.7	458.9	421.0	*411.0*	438.9	490.8	572.6	688.3	760.1	790.1
32.5°	526.7	456.9	417.0	*405.0*	438.9	492.8	570.6	690.3	772.1	812.0
35°	532.7	466.9	425.0	*413.0*	450.9	510.8	584.6	708.3	798.1	834.0
37.5°	548.7	492.8	458.9	*462.9*	492.8	548.7	622.5	748.2	838.0	879.9
40°	586.6	544.7	560.6	*574.6*	614.5	628.5	688.3	816.0	911.8	951.7
42.5°	642.4	676.4	758.2	*830.0*	828.0	778.1	780.1	903.8	1011.5	1059.4
45°	756.2	865.9	1049.4	*1157.2*	1109.3	1007.5	921.8	1025.5	1151.2	1213.0
47.5°	901.8	1133.2	1408.6	*1550.2*	1460.4	1254.9	1083.4	1205.1	1386.6	1474.4
50°	1069.4	1450.5	1821.6	*1975.2*	1815.6	1500.3	1266.9	1444.5	1741.8	1883.4
52.5°	1260.9	1751.7	2278.4	*2456.0*	2204.6	1731.8	1446.5	1825.6	2262.5	2416.1
55°	1406.6	2029.1	2761.3	*2930.9*	2573.7	1907.4	1640.0	2368.2	2930.9	3088.5
57.5°	1578.2	2282.4	3152.3	*3417.7*	2853.0	2078.9	1881.4	3130.4	3828.7	3958.4
60°	1809.6	2595.7	3597.2	*3894.5*	3214.2	2288.4	2248.5	4084.0	4441.2	4413.2
62.5°	2685.5	3250.1	4331.4	*4604.8*	3894.5	2906.9	3094.5	4407.3	4221.7	4104.0
65°	*3302.0*	*3816.7*	*5015.8*	*5093.6*	*4395.3*	*3106.4*	*3042.6*	*3718.9*	*3585.3*	*3453.6*
67.5°	2721.4	3563.3	4788.3	*4792.3*	4096.0	2745.3	2410.1	3290.0	3130.4	2986.7
70°	2276.5	3100.4	4193.8	*3746.9*	3621.2	2438.1	2061.0	2922.9	2607.6	2452.0
72.5°	1891.4	2404.1	3449.6	*2474.0*	3056.6	2039.0	1761.7	2396.2	2001.1	1793.6
75°	1480.4	1903.4	2158.7	*1789.6*	2009.1	1590.1	1374.7	1735.8	1320.8	1173.1
77.5°	993.6	1264.9	1412.6	*1053.4*	1368.7	1097.3	696.3	806.0	596.5	514.7
80°	387.1	612.5	778.1	*628.5*	732.2	602.5	291.3	335.2	247.4	231.4
82.5°	151.6	269.3	351.1	*243.4*	341.2	319.2	101.8	81.8	69.8	67.8
85°	33.9	141.7	141.7	*91.8*	103.7	153.6	35.9	25.9	25.9	25.9
87.5°	0.0	0.0	0.0	*2.0*	2.0	2.0	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

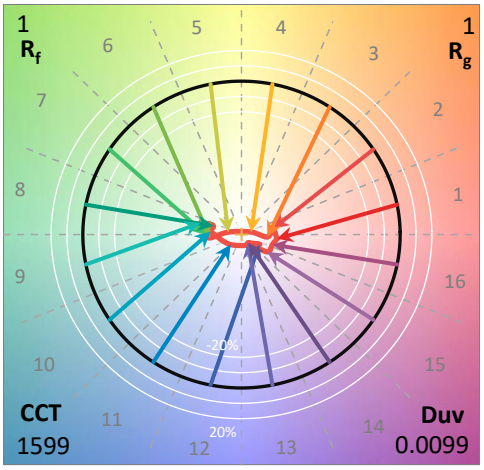
Test Information

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

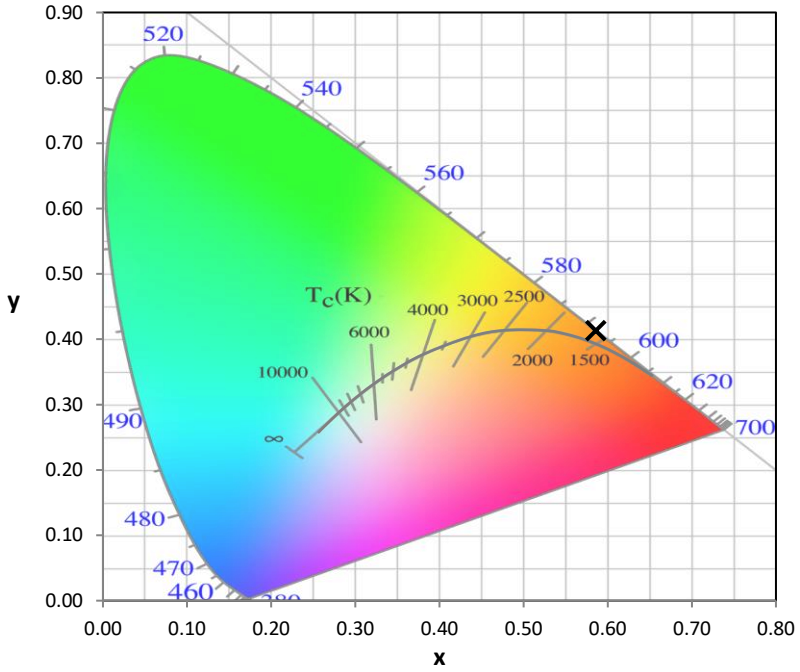
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

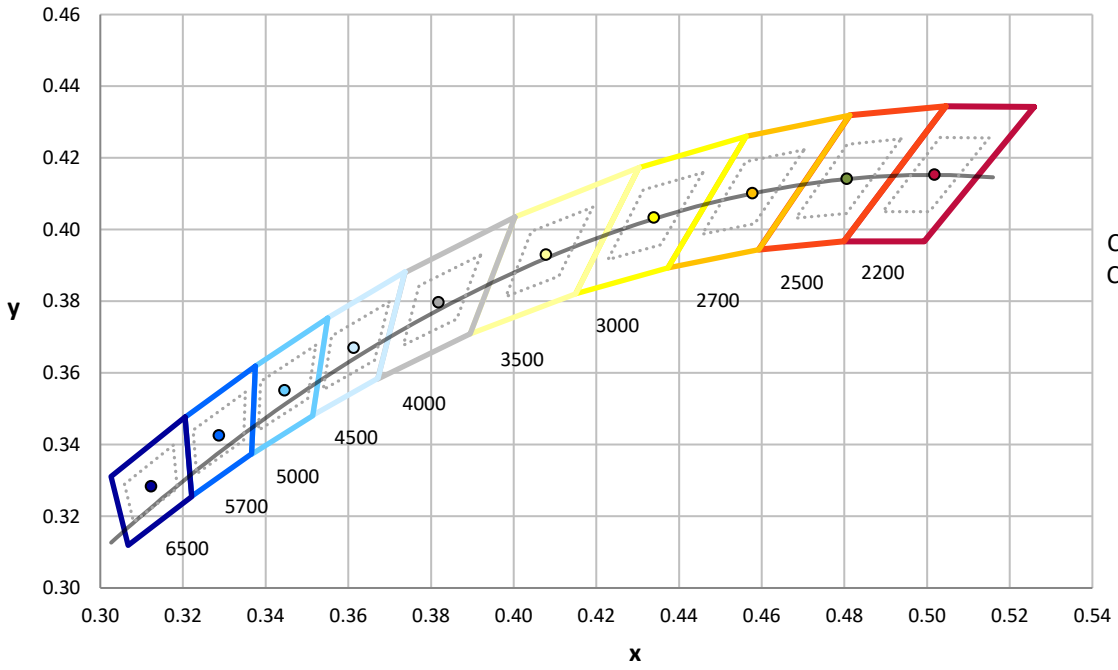
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

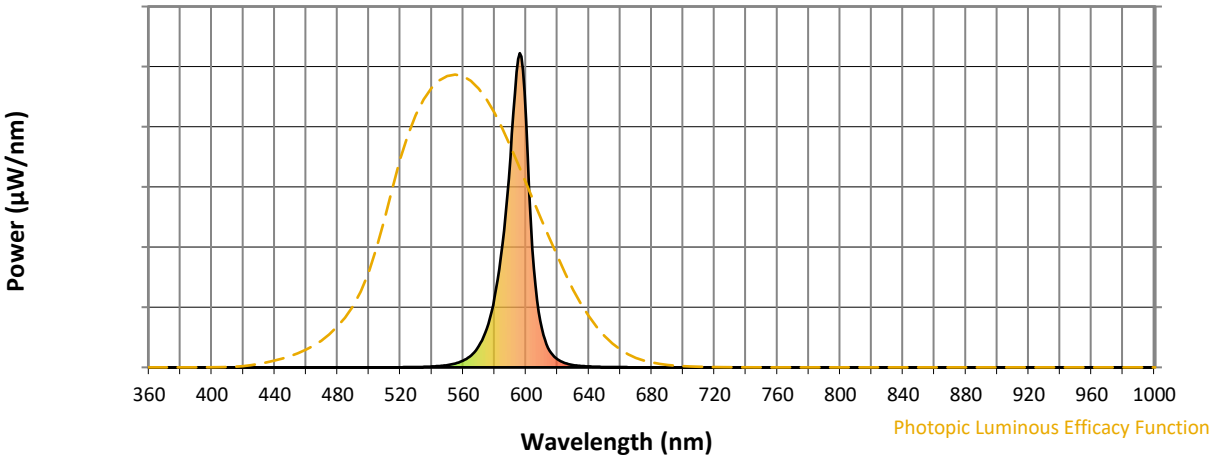


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

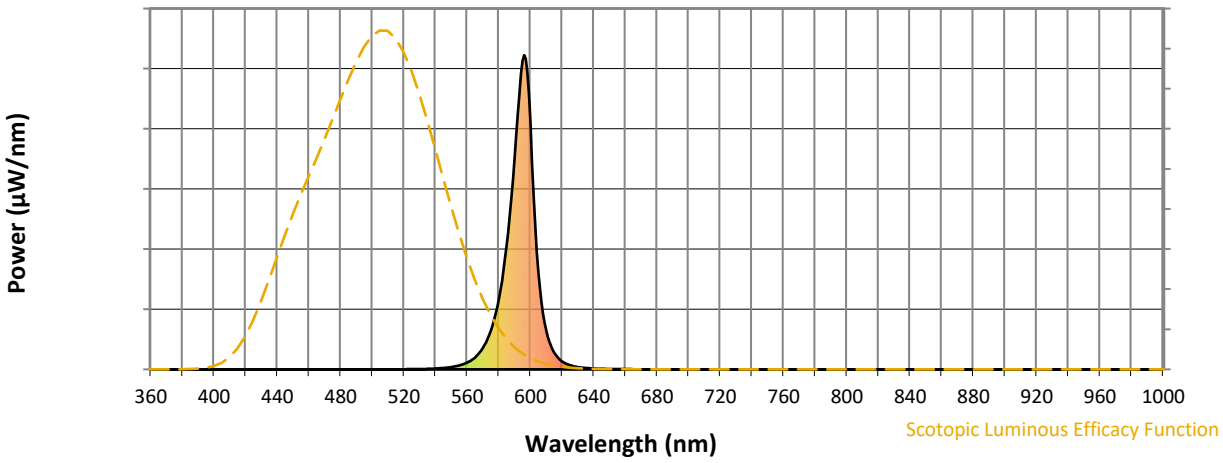


Photopic Lumens: NR

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

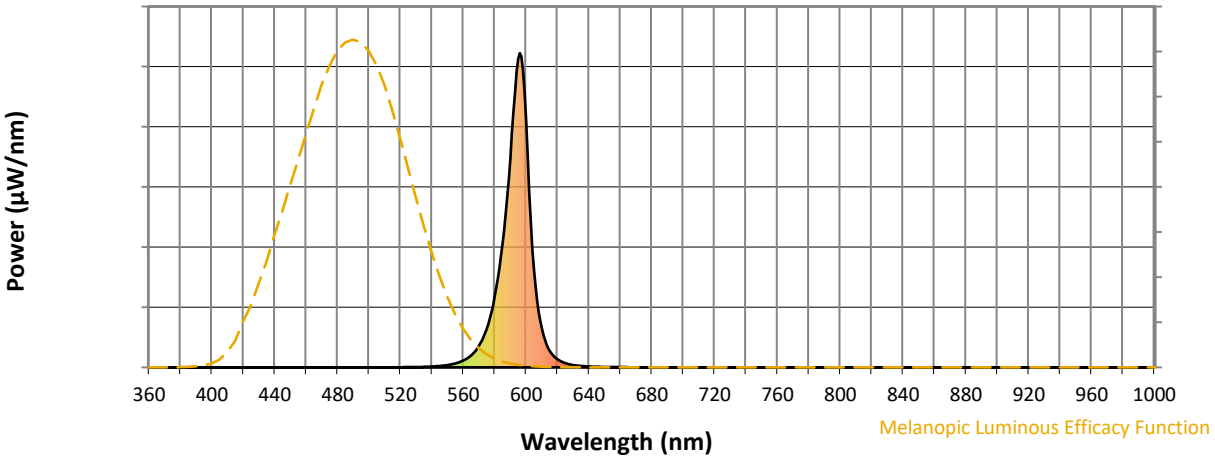


Scotopic Lumens: NR **S/P: 0.23**

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			

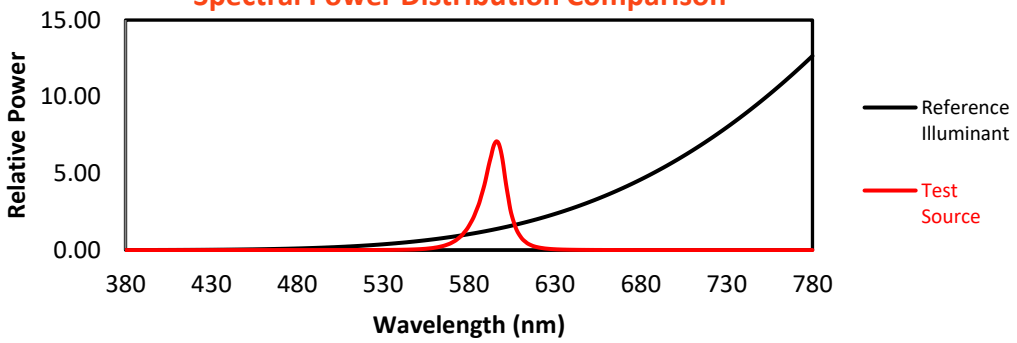
REPORT NUMBER: SP3-2509-541-1

TM-30-18

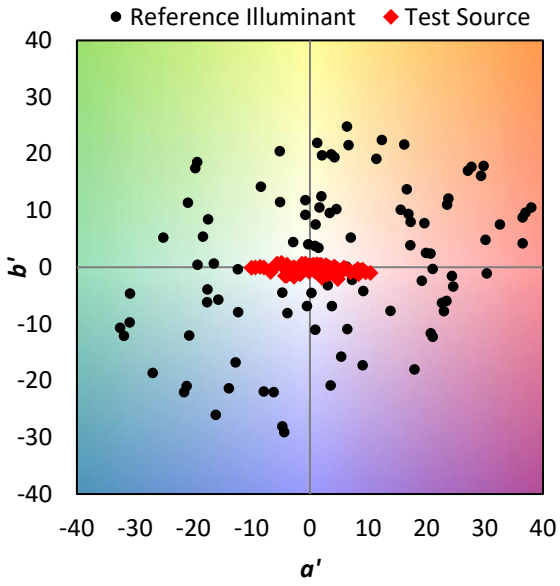
Summary

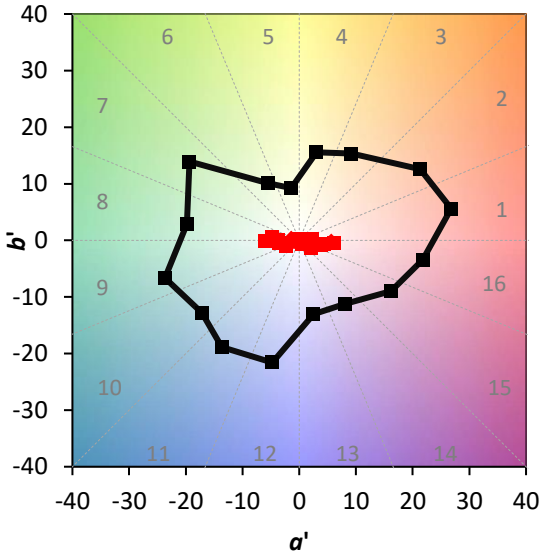
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

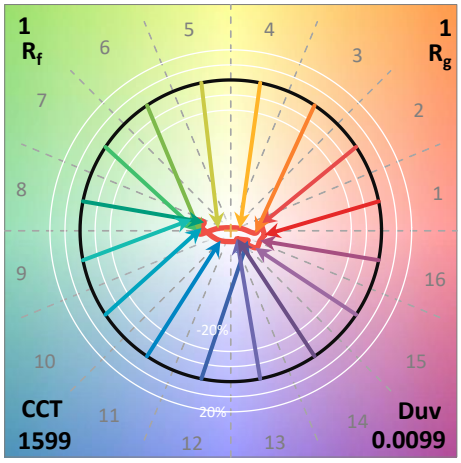
Spectral Power Distribution Comparison

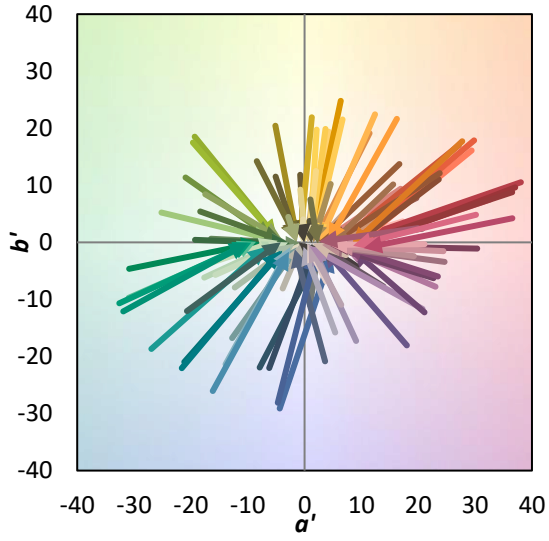


Color Vector Graphics







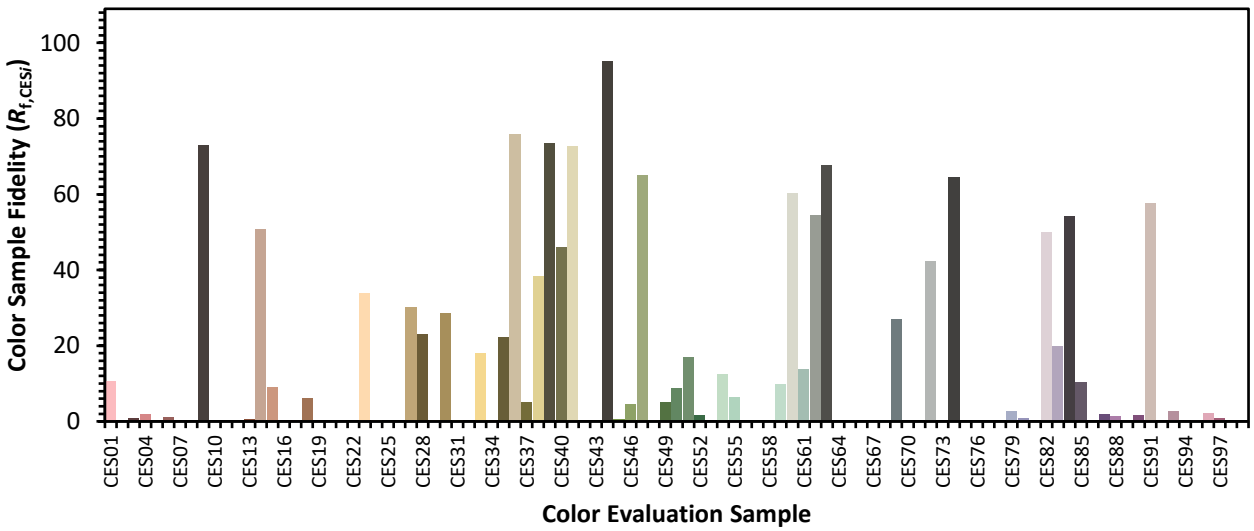


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

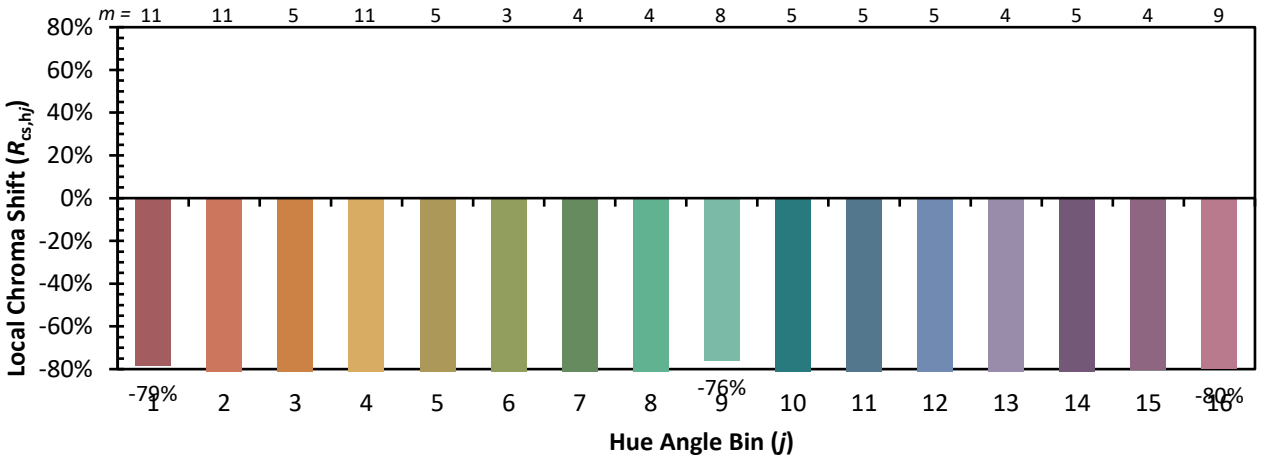
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 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	

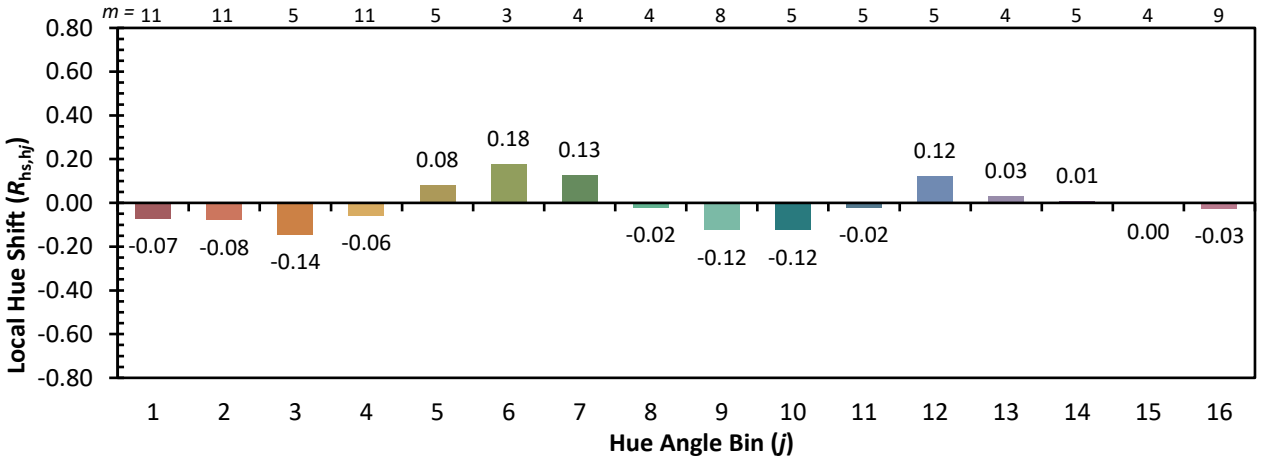


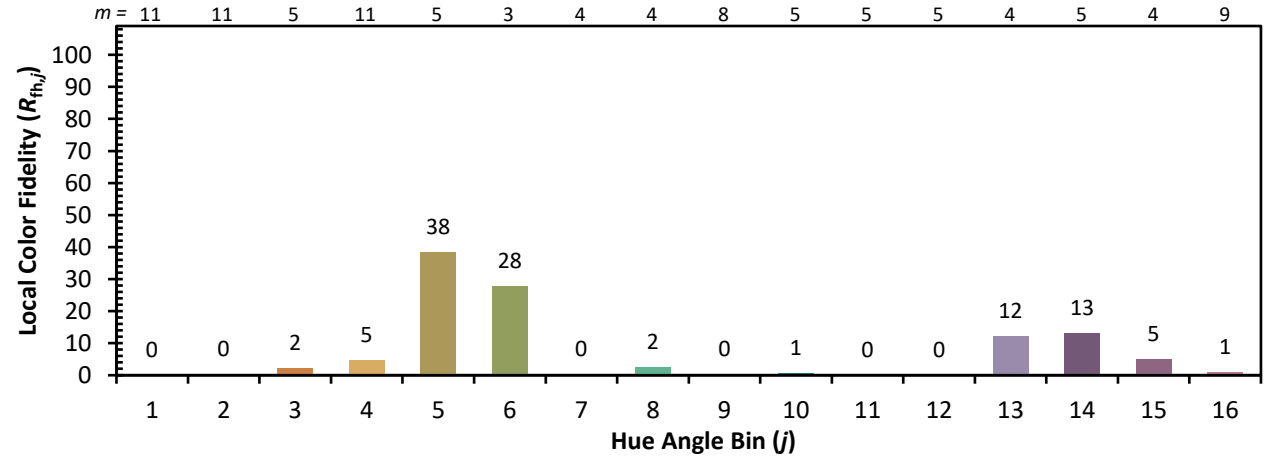
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Color Rendition by Hue-Angle Bin



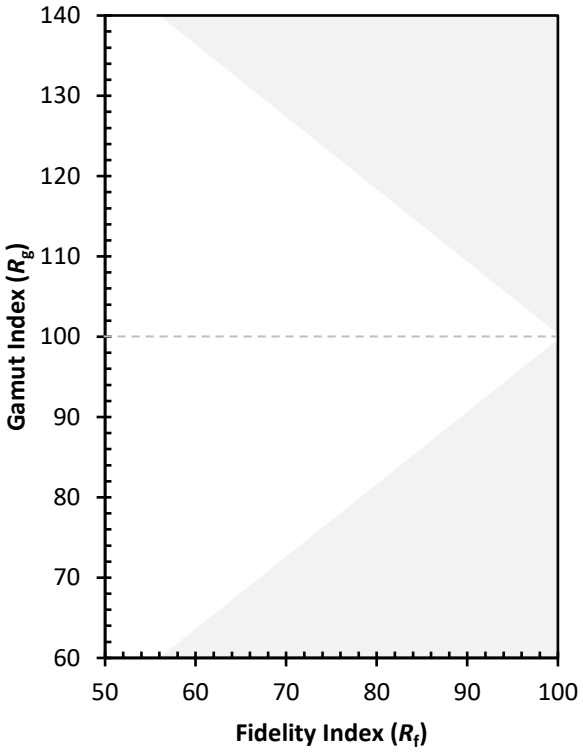


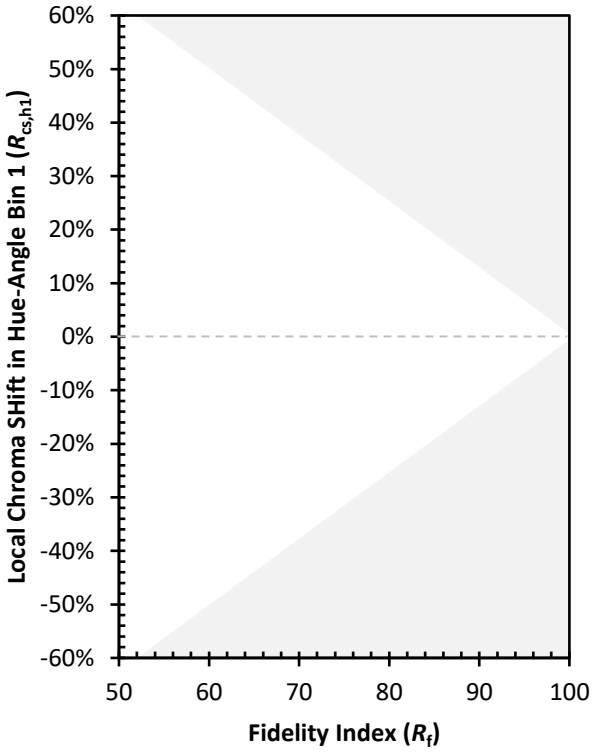


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Measure Comparisons





(END OF REPORT)