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-HSS

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-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 2SQUARE 68W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(52) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3142.3 lumens
Efficiency:	N/A
Efficacy:	46.2 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

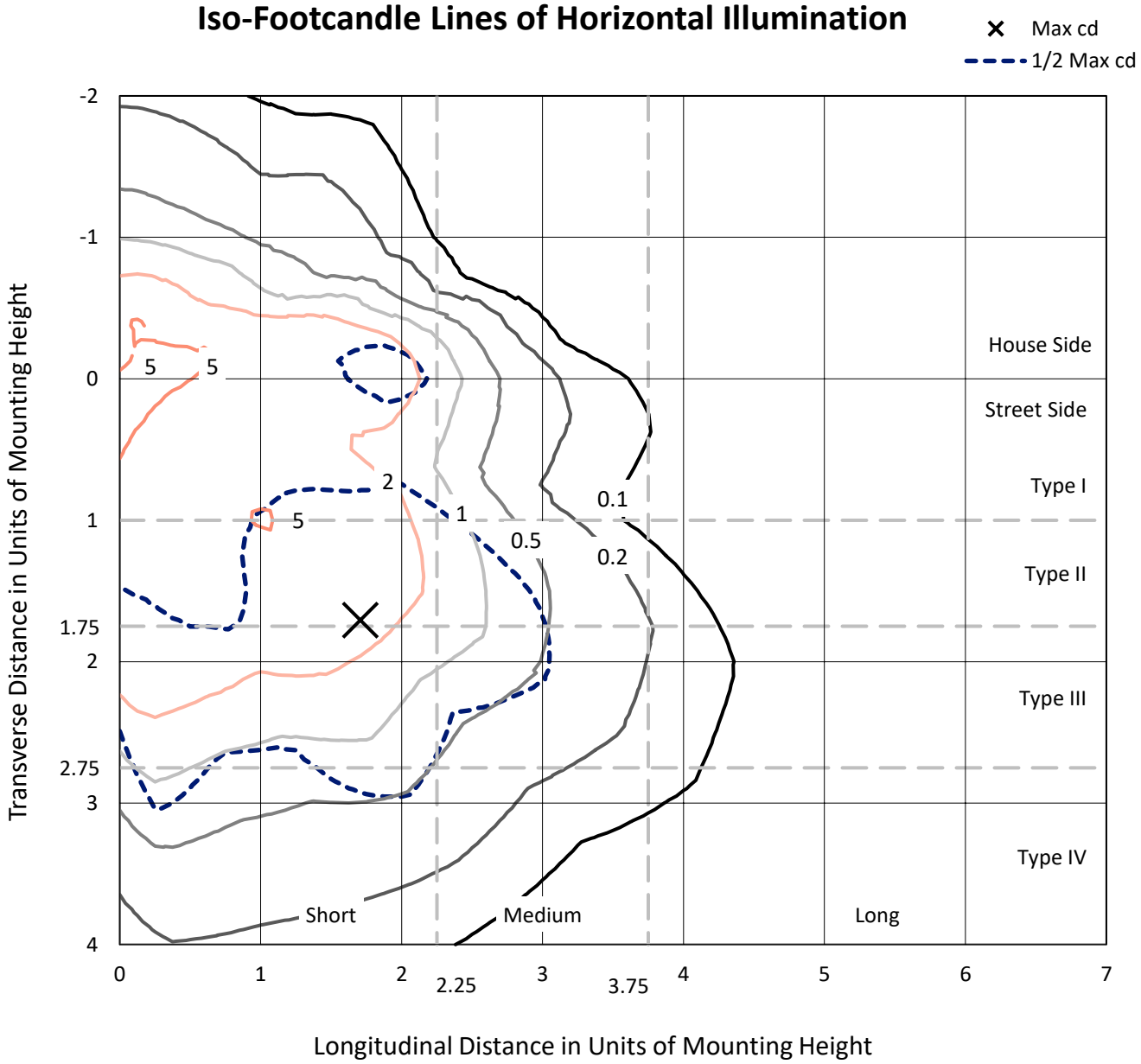


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Iso-Footcandle Lines of Horizontal Illumination



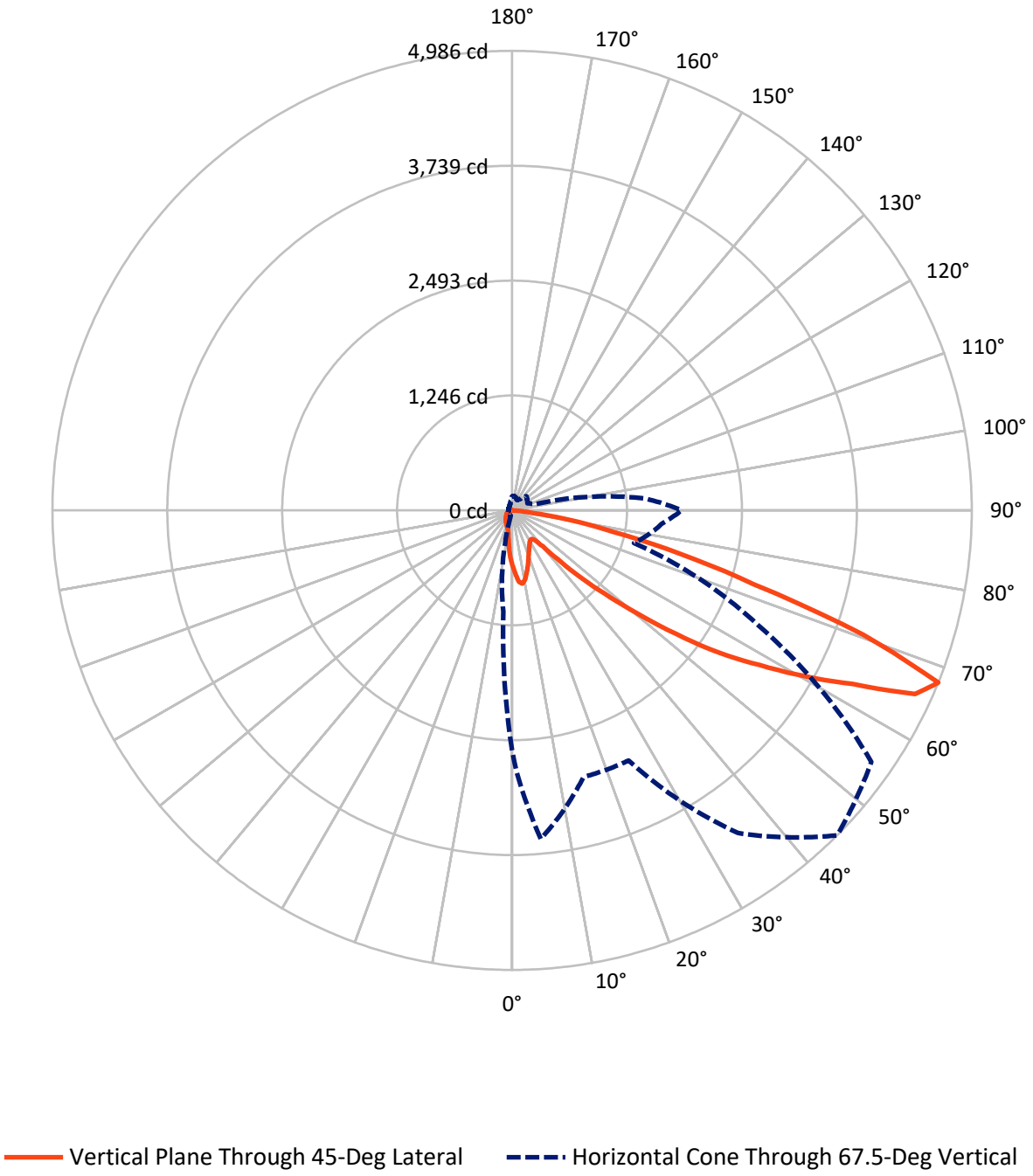
Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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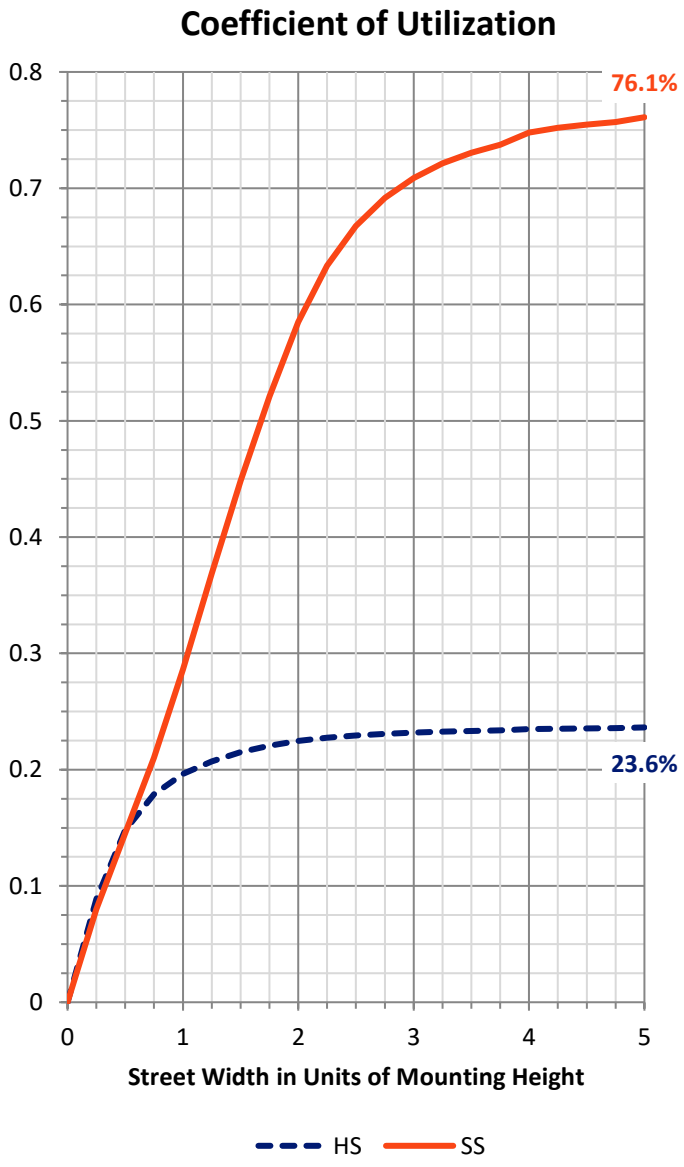
REPORT NUMBER: P1704729
CATALOG NUMBER: GSS-SB2A-AMB-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.8	0.0	749.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2392.5	0.0	2392.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	3142.3	0.0	3142.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.7
10°-20°	136.6	4.3
20°-30°	193.6	6.2
30°-40°	236.7	7.5
40°-50°	356.3	11.3
50°-60°	673.8	21.4
60°-70°	976.2	31.1
70°-80°	473.3	15.1
80°-90°	41.6	1.3
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°	3142.3	100.0
0°-180°	3142.3	100.0



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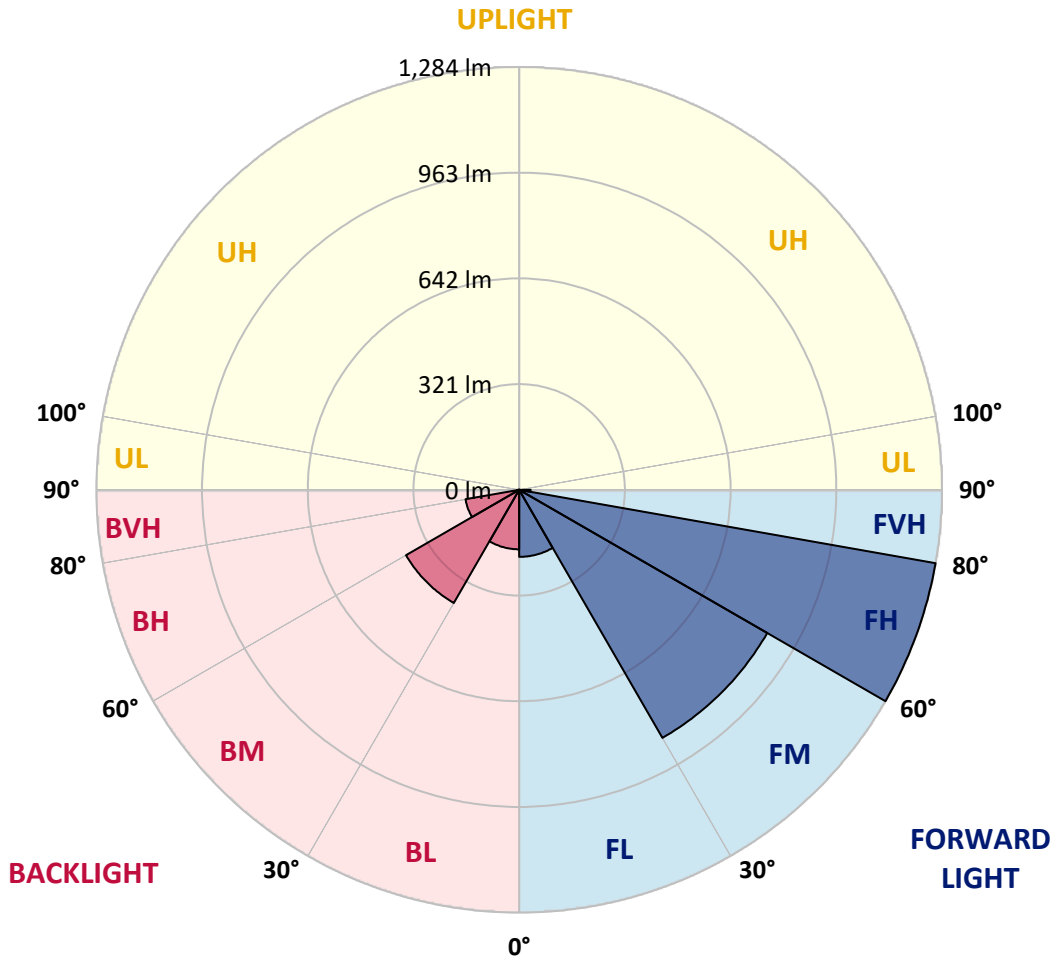
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	203.7	6.5			
FM	(30°-60°)	869.9	27.7			
FH	(60°-80°)	1284.1	40.9			G1/1800
FVH	(80°-90°)	34.8	1.1			G1/100
BL	(0°-30°)	180.7	5.8	B1/500		
BM	(30°-60°)	396.8	12.6	B1/1000		
BH	(60°-80°)	165.4	5.3	B1/500		G1/500
BVH	(80°-90°)	6.8	0.2			G0/10
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°	598.7	598.7	598.7	598.7	598.7	598.7	*598.7*	598.7	598.7	598.7	598.7
2.5°	652.6	652.6	662.6	666.6	674.6	686.6	*686.6*	678.6	686.6	678.6	678.6
5°	712.5	708.5	726.5	748.4	754.4	766.4	*778.4*	780.4	774.4	766.4	756.4
7.5°	738.4	736.5	756.4	780.4	792.3	800.3	*802.3*	804.3	806.3	800.3	796.3
10°	754.4	756.4	770.4	786.3	780.4	770.4	*766.4*	770.4	778.4	786.3	800.3
12.5°	760.4	762.4	774.4	764.4	732.5	714.5	*698.5*	706.5	718.5	742.4	782.4
15°	762.4	756.4	762.4	722.5	676.6	640.7	*634.7*	634.7	654.6	684.6	748.4
17.5°	758.4	750.4	744.4	678.6	620.7	582.8	*568.8*	578.8	596.7	642.7	718.5
20°	752.4	744.4	728.5	640.7	570.8	538.9	*514.9*	520.9	542.9	596.7	686.6
22.5°	748.4	736.5	706.5	600.7	534.9	493.0	*469.0*	473.0	504.9	568.8	660.6
25°	744.4	734.5	688.6	574.8	504.9	457.0	*435.1*	437.1	473.0	540.9	648.6
27.5°	746.4	730.5	678.6	556.8	481.0	431.1	*403.2*	409.1	447.1	524.9	634.7
30°	760.4	734.5	674.6	546.9	471.0	419.1	*385.2*	391.2	429.1	518.9	628.7
32.5°	770.4	748.4	676.6	550.8	467.0	409.1	*375.2*	381.2	425.1	512.9	626.7
35°	800.3	772.4	686.6	558.8	481.0	419.1	*381.2*	385.2	433.1	512.9	632.7
37.5°	834.2	808.3	716.5	578.8	504.9	455.0	*417.1*	409.1	451.1	522.9	646.6
40°	882.1	850.2	758.4	618.7	552.8	536.9	*510.9*	497.0	497.0	552.8	674.6
42.5°	958.0	920.1	816.3	688.6	666.6	714.5	*722.5*	656.6	606.7	600.7	708.5
45°	1071.7	1013.9	902.1	788.3	842.2	979.9	*1019.9*	900.1	758.4	674.6	766.4
47.5°	1209.5	1163.6	1011.9	920.1	1055.8	1297.3	*1347.2*	1231.4	991.9	804.3	836.2
50°	1474.9	1377.1	1169.5	1077.7	1279.3	1646.5	*1742.3*	1596.6	1233.4	950.0	920.1
52.5°	1820.2	1742.3	1451.0	1231.4	1488.9	2011.8	*2227.3*	2025.7	1492.9	1093.7	1027.8
55°	2265.2	2165.5	1868.1	1409.0	1672.5	2311.1	*2732.3*	2520.7	1736.4	1221.4	1267.3
57.5°	2899.9	2864.0	2540.7	1636.6	1790.2	2550.6	*3165.4*	2979.7	1969.9	1327.2	1692.4
60°	3672.3	3782.1	3486.7	1971.9	1910.0	2788.1	*3660.3*	3454.7	2173.4	1425.0	2155.5
62.5°	3664.3	4009.6	4660.2	3035.6	2283.2	3205.3	*4147.3*	3987.6	2482.8	1634.6	2478.8
65°	3099.5	3398.9	4097.4	3937.7	3167.3	4121.3	*4803.9*	4656.2	3033.6	1820.2	2163.5
67.5°	*2598.5*	*2846.0*	*3578.5*	*2993.7*	*2993.7*	*4273.0*	*4985.5*	*4756.0*	*2939.8*	*1369.1*	*1634.6*
70°	2051.7	2303.2	2955.8	2442.9	2600.5	3881.8	*4039.5*	4285.0	2672.4	946.0	1103.7
72.5°	1502.8	1722.4	2355.1	1991.8	2113.6	3436.8	*2744.2*	3638.4	2259.3	584.8	772.4
75°	1013.9	1143.6	1684.5	1598.6	1710.4	2191.4	*1886.0*	2397.0	1882.0	475.0	640.7
77.5°	510.9	614.7	936.0	1035.8	1189.5	1157.6	*1119.6*	1636.6	1395.1	255.5	269.4
80°	99.8	123.7	215.5	385.2	483.0	630.7	*654.6*	914.1	752.4	141.7	159.7
82.5°	39.9	43.9	53.9	131.7	135.7	267.4	*231.5*	407.1	309.4	69.9	51.9
85°	14.0	16.0	20.0	25.9	71.8	113.8	*75.8*	63.9	73.8	20.0	12.0
87.5°	0.0	0.0	2.0	2.0	2.0	4.0	*6.0*	6.0	6.0	6.0	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°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	666.6	660.6	650.6	634.7	620.7	600.7	590.8	570.8	560.8	546.9	540.9
5°	748.4	732.5	702.5	670.6	632.7	598.7	562.8	530.9	500.9	473.0	457.0
7.5°	786.3	774.4	742.4	694.5	646.6	598.7	546.9	499.0	451.1	411.1	391.2
10°	800.3	790.3	756.4	706.5	656.6	602.7	546.9	487.0	433.1	377.2	351.3
12.5°	788.3	784.4	762.4	712.5	660.6	618.7	570.8	514.9	447.1	375.2	337.3
15°	770.4	782.4	774.4	718.5	668.6	628.7	598.7	566.8	506.9	415.1	365.2
17.5°	754.4	782.4	782.4	728.5	676.6	626.7	610.7	614.7	612.7	499.0	423.1
20°	738.4	778.4	798.3	736.5	670.6	610.7	606.7	654.6	688.6	600.7	499.0
22.5°	728.5	782.4	810.3	740.4	646.6	564.8	578.8	648.6	706.5	662.6	556.8
25°	712.5	790.3	822.3	740.4	612.7	510.9	534.9	604.7	656.6	654.6	576.8
27.5°	708.5	796.3	850.2	738.4	560.8	463.0	500.9	544.9	588.8	588.8	532.9
30°	712.5	812.3	878.2	740.4	514.9	443.1	475.0	506.9	528.9	512.9	467.0
32.5°	718.5	838.2	944.0	752.4	477.0	431.1	457.0	469.0	477.0	455.0	417.1
35°	732.5	876.2	985.9	784.4	453.0	421.1	437.1	435.1	433.1	417.1	383.2
37.5°	754.4	928.1	1041.8	790.3	457.0	407.1	409.1	399.2	387.2	377.2	355.3
40°	790.3	972.0	1093.7	770.4	473.0	397.2	375.2	357.2	343.3	341.3	327.3
42.5°	838.2	1047.8	1147.6	700.5	467.0	389.2	341.3	319.3	303.4	303.4	299.4
45°	904.1	1149.6	1189.5	624.7	435.1	379.2	311.3	283.4	271.4	269.4	275.4
47.5°	968.0	1245.4	1253.4	536.9	383.2	353.3	281.4	255.5	243.5	251.5	257.5
50°	1055.8	1381.1	1285.3	457.0	339.3	309.4	251.5	225.5	225.5	237.5	241.5
52.5°	1205.5	1640.6	1337.2	393.2	319.3	259.5	215.5	207.6	215.5	231.5	233.5
55°	1598.6	2087.6	1417.0	361.2	301.4	217.5	191.6	197.6	211.6	229.5	231.5
57.5°	2273.2	2548.6	1395.1	341.3	285.4	209.6	173.6	191.6	207.6	229.5	231.5
60°	2887.9	2905.9	1191.5	323.3	281.4	219.5	161.7	181.6	201.6	223.5	225.5
62.5°	3137.4	2935.8	816.3	287.4	267.4	231.5	155.7	163.7	183.6	201.6	203.6
65°	2570.6	2231.3	465.0	237.5	237.5	233.5	153.7	141.7	165.7	179.6	177.6
67.5°	*1838.1*	*1454.9*	*247.5*	*183.6*	*199.6*	*217.5*	*149.7*	*123.7*	*147.7*	*157.7*	*149.7*
70°	1071.7	668.6	149.7	125.7	159.7	179.6	135.7	111.8	129.7	139.7	131.7
72.5°	662.6	323.3	91.8	89.8	125.7	129.7	111.8	99.8	113.8	123.7	115.8
75°	491.0	167.6	55.9	69.9	75.8	101.8	87.8	85.8	95.8	107.8	101.8
77.5°	195.6	49.9	29.9	51.9	49.9	79.8	59.9	67.9	73.8	85.8	77.8
80°	109.8	25.9	20.0	31.9	31.9	63.9	37.9	37.9	51.9	59.9	53.9
82.5°	33.9	14.0	14.0	18.0	18.0	33.9	25.9	25.9	35.9	39.9	31.9
85°	10.0	10.0	10.0	12.0	10.0	16.0	18.0	14.0	18.0	18.0	16.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	10.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	536.9	526.9	520.9	514.9	512.9	510.9	506.9	516.9	522.9	528.9	528.9
5°	447.1	427.1	415.1	413.1	405.1	401.2	409.1	417.1	433.1	441.1	451.1
7.5°	373.2	349.3	329.3	315.3	313.3	315.3	315.3	323.3	341.3	349.3	359.2
10°	325.3	287.4	263.4	255.5	249.5	247.5	247.5	249.5	259.5	263.4	275.4
12.5°	299.4	249.5	229.5	219.5	213.6	207.6	199.6	195.6	199.6	201.6	209.6
15°	317.3	233.5	209.6	203.6	195.6	185.6	177.6	173.6	173.6	173.6	173.6
17.5°	351.3	233.5	203.6	193.6	181.6	173.6	167.6	163.7	161.7	161.7	159.7
20°	393.2	241.5	199.6	183.6	169.6	163.7	157.7	153.7	153.7	151.7	151.7
22.5°	437.1	243.5	197.6	171.6	161.7	153.7	147.7	145.7	143.7	143.7	143.7
25°	451.1	243.5	195.6	159.7	149.7	145.7	139.7	137.7	137.7	137.7	137.7
27.5°	425.1	239.5	191.6	149.7	141.7	135.7	133.7	129.7	129.7	129.7	131.7
30°	385.2	233.5	181.6	145.7	133.7	127.7	125.7	123.7	121.7	123.7	123.7
32.5°	353.3	231.5	169.6	139.7	125.7	121.7	117.8	115.8	115.8	117.8	117.8
35°	335.3	229.5	159.7	133.7	117.8	113.8	111.8	109.8	107.8	109.8	111.8
37.5°	323.3	229.5	151.7	127.7	109.8	105.8	105.8	103.8	103.8	103.8	105.8
40°	307.4	227.5	145.7	121.7	103.8	99.8	97.8	95.8	95.8	97.8	99.8
42.5°	291.4	223.5	139.7	113.8	97.8	89.8	89.8	87.8	89.8	91.8	93.8
45°	271.4	213.6	131.7	107.8	89.8	83.8	81.8	81.8	83.8	85.8	87.8
47.5°	255.5	203.6	129.7	99.8	83.8	77.8	75.8	73.8	77.8	79.8	81.8
50°	239.5	199.6	133.7	95.8	79.8	71.8	69.9	69.9	73.8	75.8	77.8
52.5°	235.5	199.6	137.7	91.8	73.8	67.9	65.9	67.9	69.9	73.8	75.8
55°	233.5	191.6	139.7	83.8	71.8	63.9	63.9	65.9	67.9	69.9	71.8
57.5°	231.5	175.6	127.7	77.8	67.9	61.9	61.9	63.9	65.9	67.9	67.9
60°	219.5	151.7	109.8	69.9	63.9	59.9	59.9	59.9	59.9	59.9	61.9
62.5°	189.6	127.7	93.8	61.9	57.9	55.9	55.9	53.9	49.9	51.9	53.9
65°	151.7	97.8	79.8	53.9	51.9	51.9	49.9	43.9	39.9	39.9	41.9
67.5°	*115.8*	*71.8*	*63.9*	*47.9*	*45.9*	*43.9*	*43.9*	*39.9*	*33.9*	*35.9*	*37.9*
70°	89.8	59.9	49.9	41.9	37.9	37.9	39.9	35.9	29.9	31.9	33.9
72.5°	71.8	49.9	41.9	31.9	27.9	31.9	33.9	29.9	25.9	25.9	27.9
75°	57.9	37.9	31.9	23.9	22.0	25.9	25.9	23.9	22.0	22.0	23.9
77.5°	41.9	27.9	22.0	18.0	16.0	20.0	20.0	18.0	16.0	18.0	18.0
80°	27.9	18.0	14.0	14.0	12.0	14.0	12.0	12.0	12.0	14.0	14.0
82.5°	20.0	12.0	10.0	10.0	8.0	8.0	8.0	10.0	12.0	12.0	12.0
85°	10.0	8.0	8.0	6.0	6.0	6.0	8.0	8.0	10.0	10.0	10.0
87.5°	8.0	6.0	6.0	4.0	4.0	4.0	6.0	8.0	8.0	8.0	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

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-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	544.9	562.8	572.8	586.8	606.7	616.7	634.7	642.7	644.6	652.6
5°	473.0	506.9	534.9	566.8	602.7	632.7	664.6	692.5	702.5	712.5
7.5°	395.2	427.1	475.0	524.9	580.8	628.7	678.6	714.5	728.5	738.4
10°	303.4	349.3	407.1	469.0	542.9	608.7	680.6	730.5	744.4	754.4
12.5°	231.5	269.4	339.3	409.1	497.0	582.8	674.6	736.5	758.4	760.4
15°	183.6	205.6	265.4	357.2	459.0	560.8	668.6	740.4	754.4	762.4
17.5°	159.7	163.7	195.6	289.4	413.1	532.9	660.6	742.4	754.4	758.4
20°	151.7	149.7	153.7	203.6	357.2	508.9	650.6	746.4	748.4	752.4
22.5°	143.7	141.7	141.7	151.7	275.4	473.0	646.6	750.4	748.4	748.4
25°	137.7	135.7	133.7	135.7	185.6	413.1	640.7	758.4	748.4	744.4
27.5°	131.7	129.7	127.7	127.7	137.7	343.3	624.7	772.4	752.4	746.4
30°	125.7	123.7	123.7	121.7	125.7	275.4	598.7	790.3	764.4	760.4
32.5°	119.7	119.7	117.8	117.8	117.8	207.6	578.8	816.3	786.3	770.4
35°	113.8	113.8	111.8	111.8	113.8	153.7	558.8	842.2	812.3	800.3
37.5°	107.8	107.8	105.8	105.8	107.8	145.7	542.9	876.2	848.2	834.2
40°	103.8	101.8	101.8	99.8	103.8	145.7	526.9	924.1	902.1	882.1
42.5°	95.8	95.8	93.8	93.8	97.8	135.7	506.9	1005.9	974.0	958.0
45°	89.8	89.8	87.8	87.8	95.8	127.7	544.9	1133.6	1097.7	1071.7
47.5°	85.8	83.8	81.8	81.8	91.8	119.7	698.5	1357.2	1269.3	1209.5
50°	79.8	79.8	77.8	75.8	87.8	123.7	906.1	1616.6	1530.8	1474.9
52.5°	75.8	75.8	73.8	69.9	79.8	129.7	1057.8	1892.0	1842.1	1820.2
55°	73.8	73.8	67.9	65.9	73.8	109.8	1065.8	2201.4	2299.2	2265.2
57.5°	69.9	69.9	63.9	61.9	65.9	95.8	886.1	2454.8	2899.9	2899.9
60°	63.9	63.9	59.9	55.9	61.9	87.8	562.8	2518.7	3456.7	3672.3
62.5°	57.9	59.9	55.9	51.9	51.9	75.8	275.4	2223.3	3368.9	3664.3
65°	49.9	51.9	51.9	45.9	47.9	67.9	123.7	1606.6	2766.2	3099.5
67.5°	*43.9*	*45.9*	*43.9*	*39.9*	*45.9*	*49.9*	*63.9*	*1097.7*	*2313.1*	*2598.5*
70°	39.9	41.9	37.9	33.9	41.9	35.9	47.9	622.7	1782.3	2051.7
72.5°	33.9	35.9	31.9	25.9	37.9	27.9	35.9	237.5	1297.3	1502.8
75°	27.9	29.9	25.9	22.0	25.9	22.0	27.9	85.8	824.3	1013.9
77.5°	20.0	23.9	22.0	18.0	20.0	16.0	20.0	41.9	437.1	510.9
80°	16.0	16.0	16.0	14.0	12.0	12.0	14.0	25.9	69.9	99.8
82.5°	14.0	12.0	12.0	10.0	10.0	8.0	8.0	12.0	35.9	39.9
85°	12.0	10.0	10.0	8.0	6.0	4.0	4.0	4.0	12.0	14.0
87.5°	10.0	8.0	6.0	4.0	2.0	2.0	0.0	2.0	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: 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

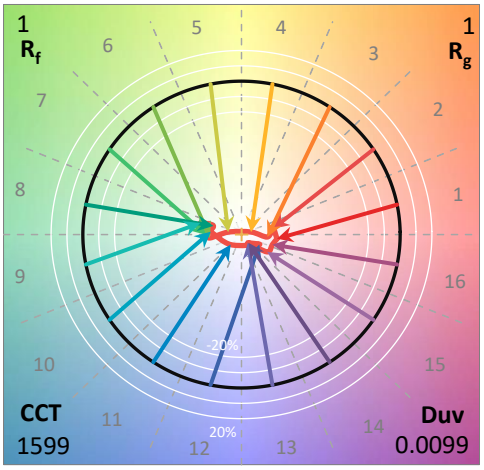
Test Information

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

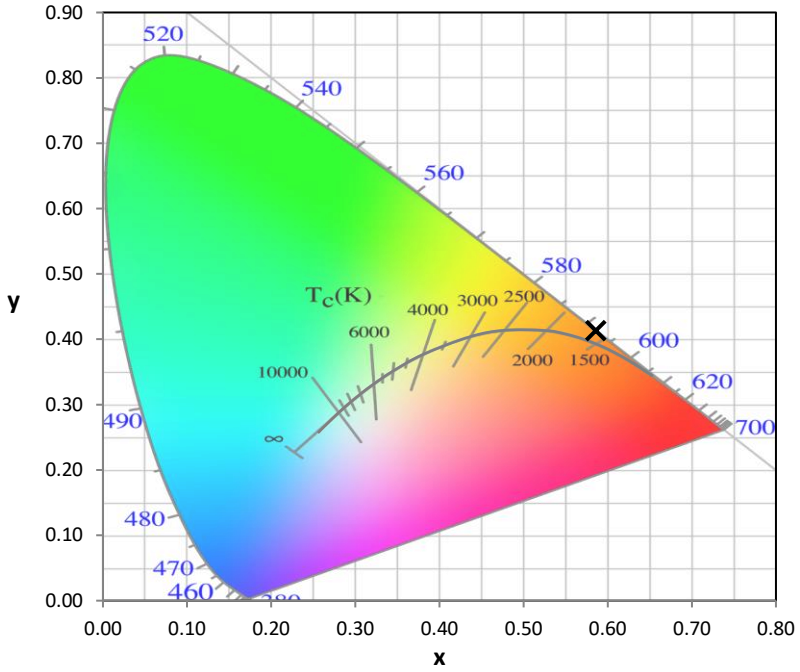
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

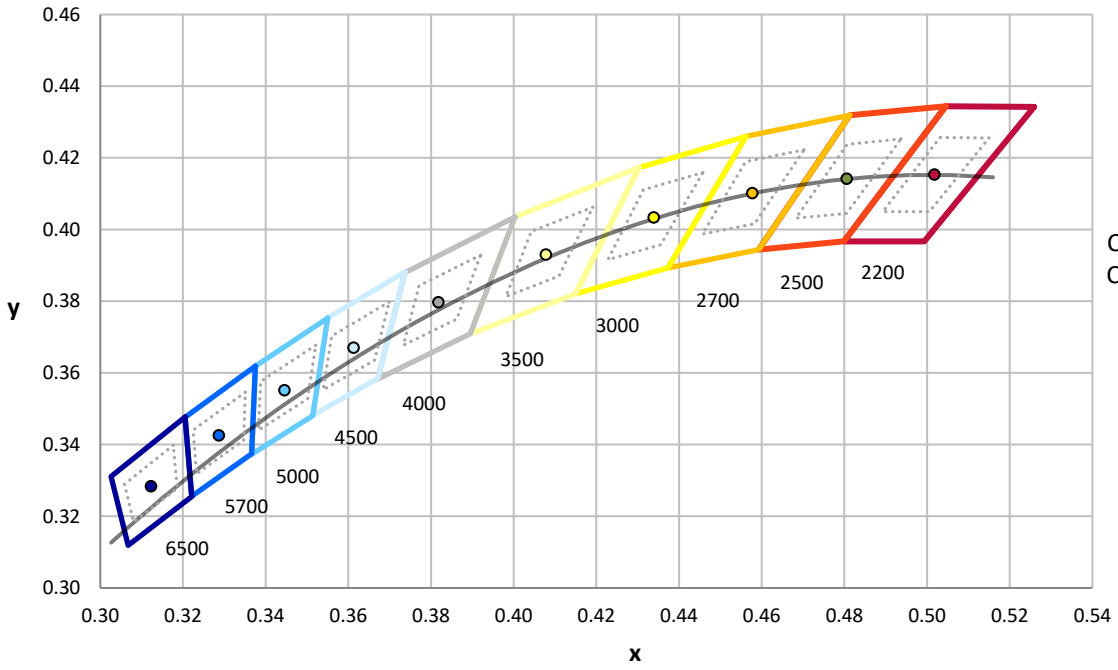
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

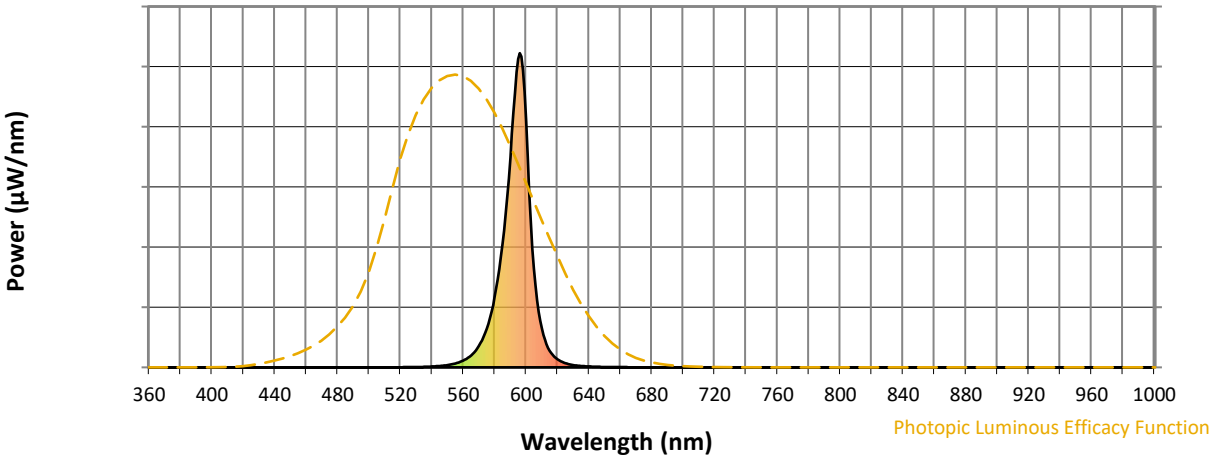


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

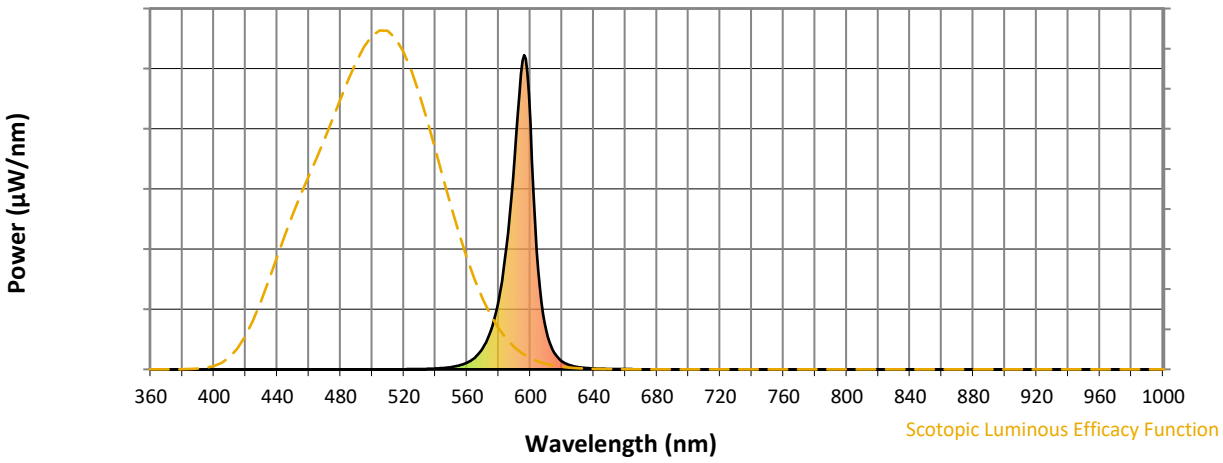


Photopic Lumens: NR

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

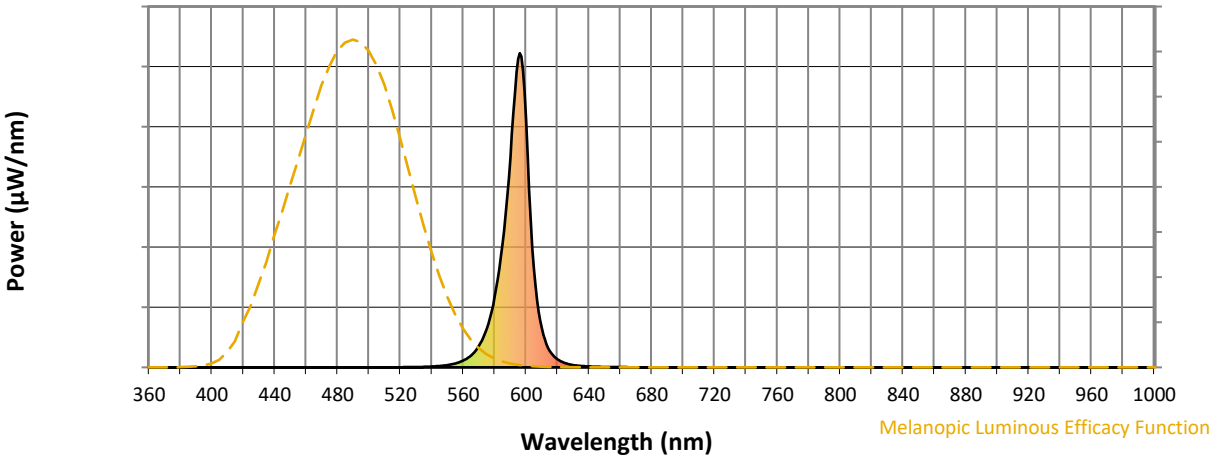


Scotopic Lumens: NR **S/P: 0.23**

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			

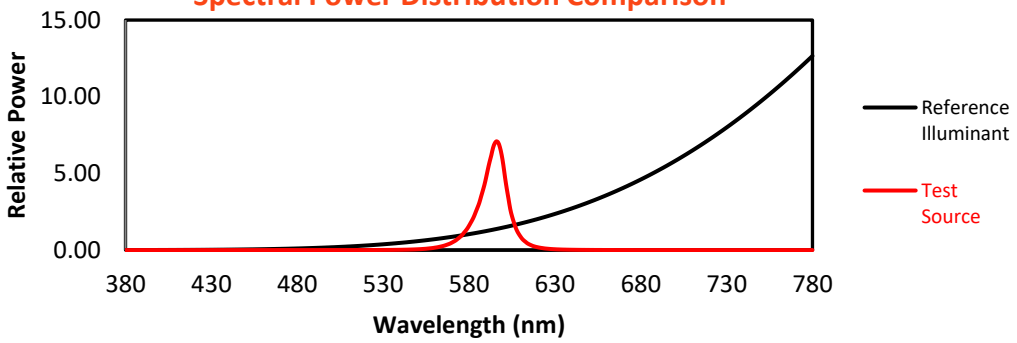
REPORT NUMBER: SP3-2509-541-1

TM-30-18

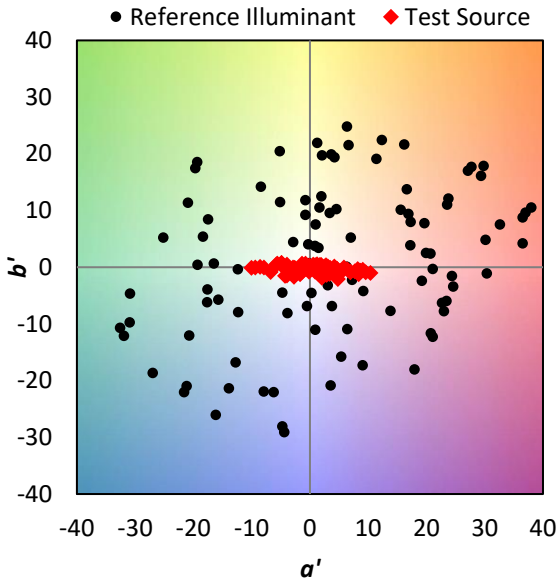
Summary

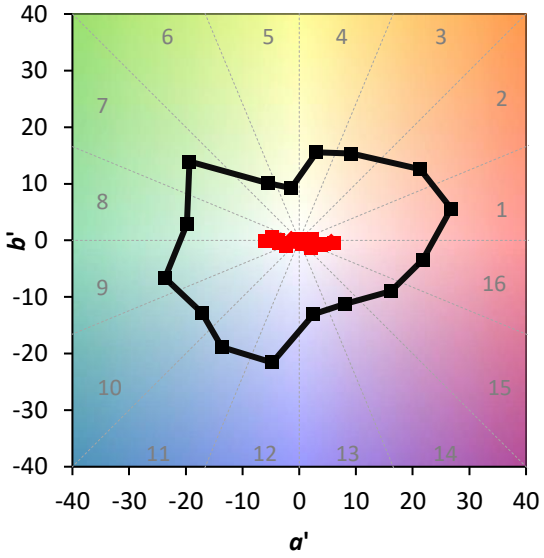
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

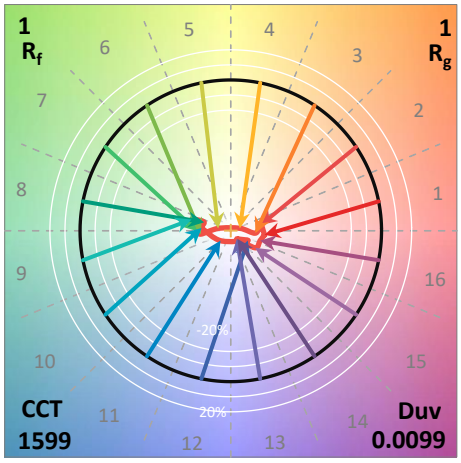
Spectral Power Distribution Comparison

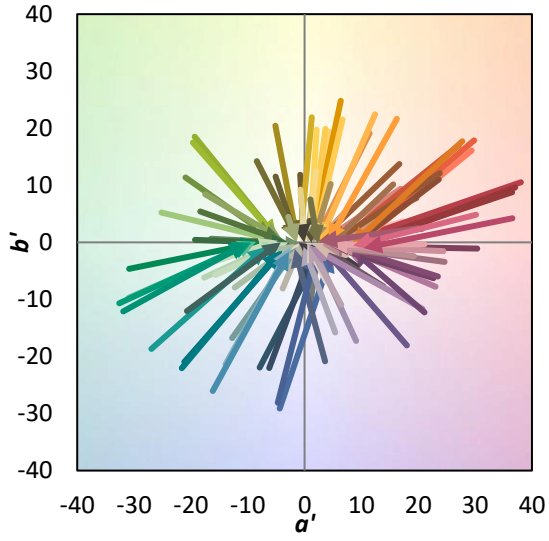


Color Vector Graphics







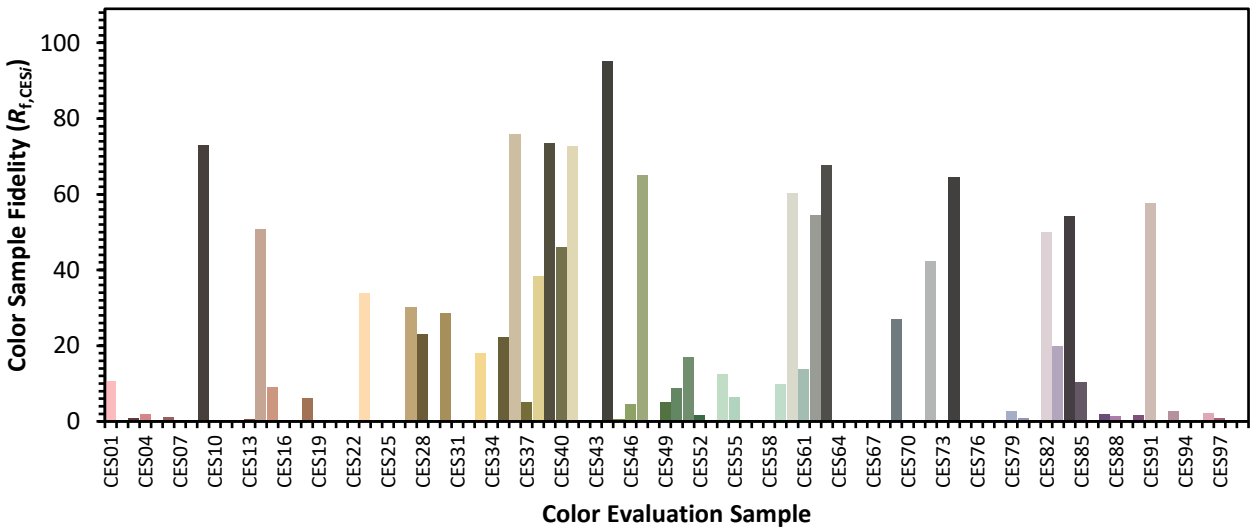


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

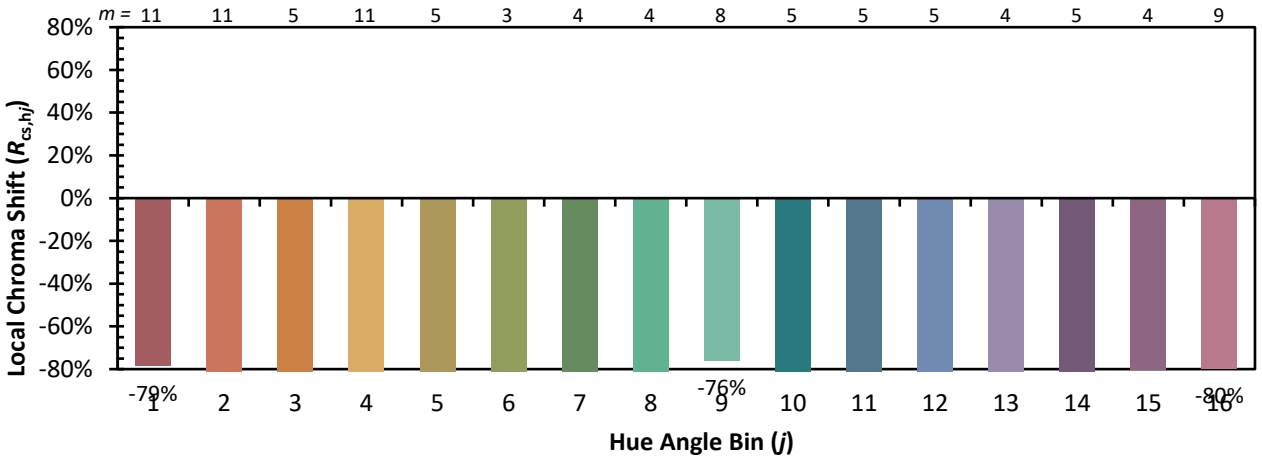
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 =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

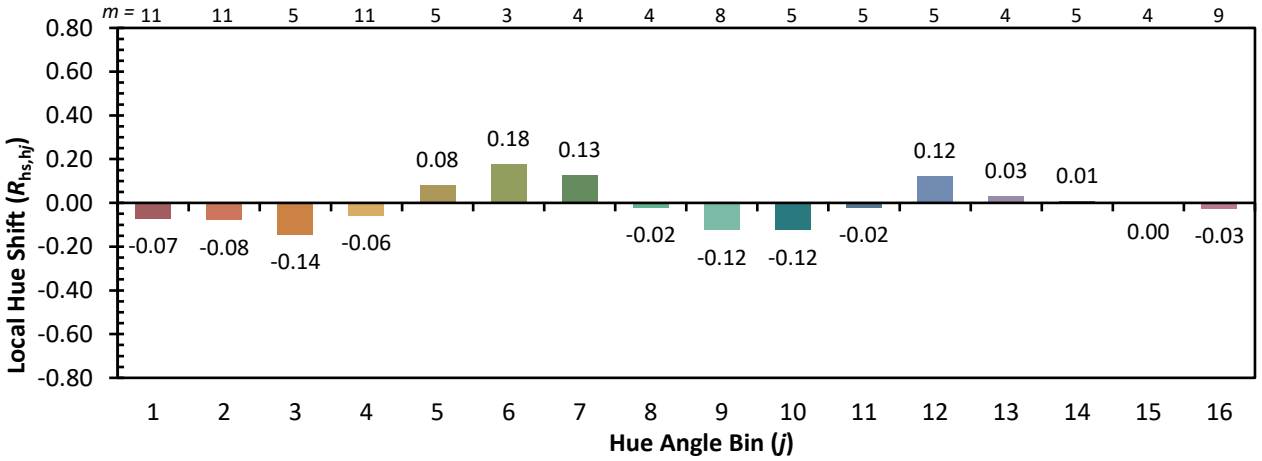


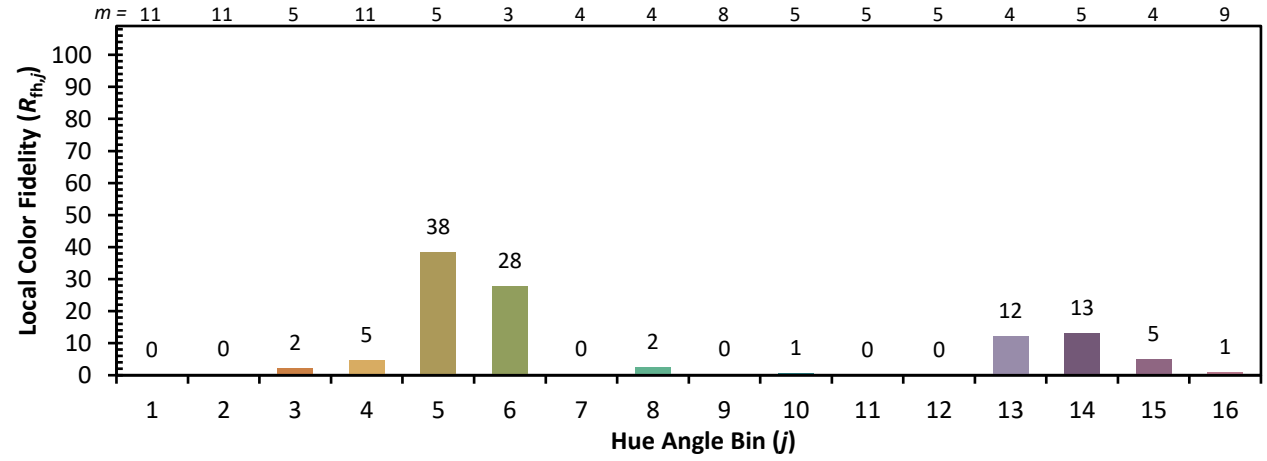
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Color Rendition by Hue-Angle Bin



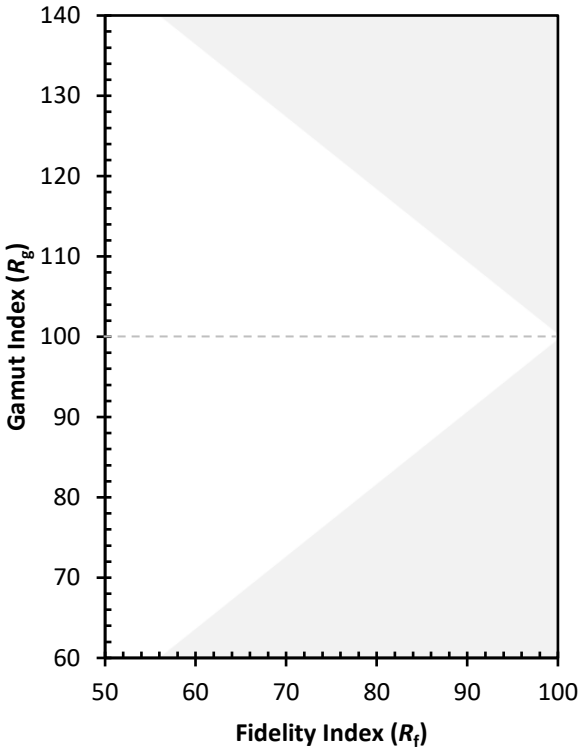


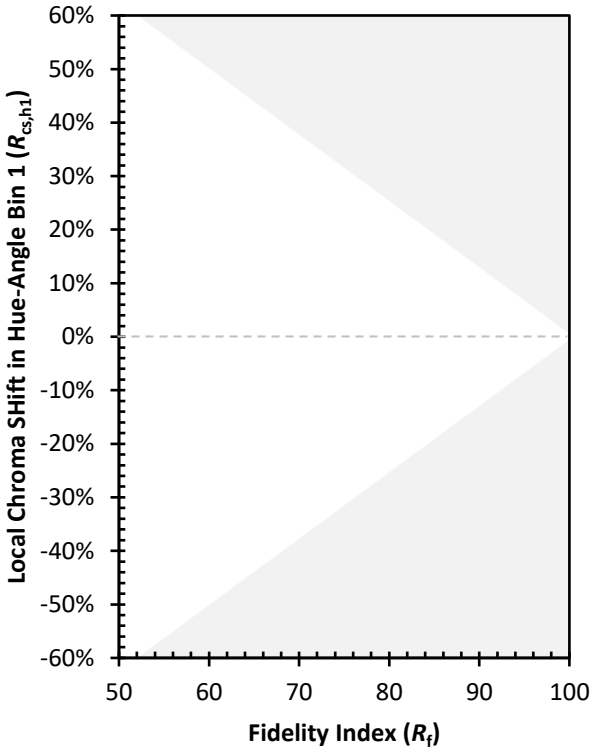


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Measure Comparisons





(END OF REPORT)