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-HSS

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-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 2SQUARE 68W 1590K FIXTURE w/ RIGHT 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:	3202 lumens
Efficiency:	N/A
Efficacy:	47.1 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

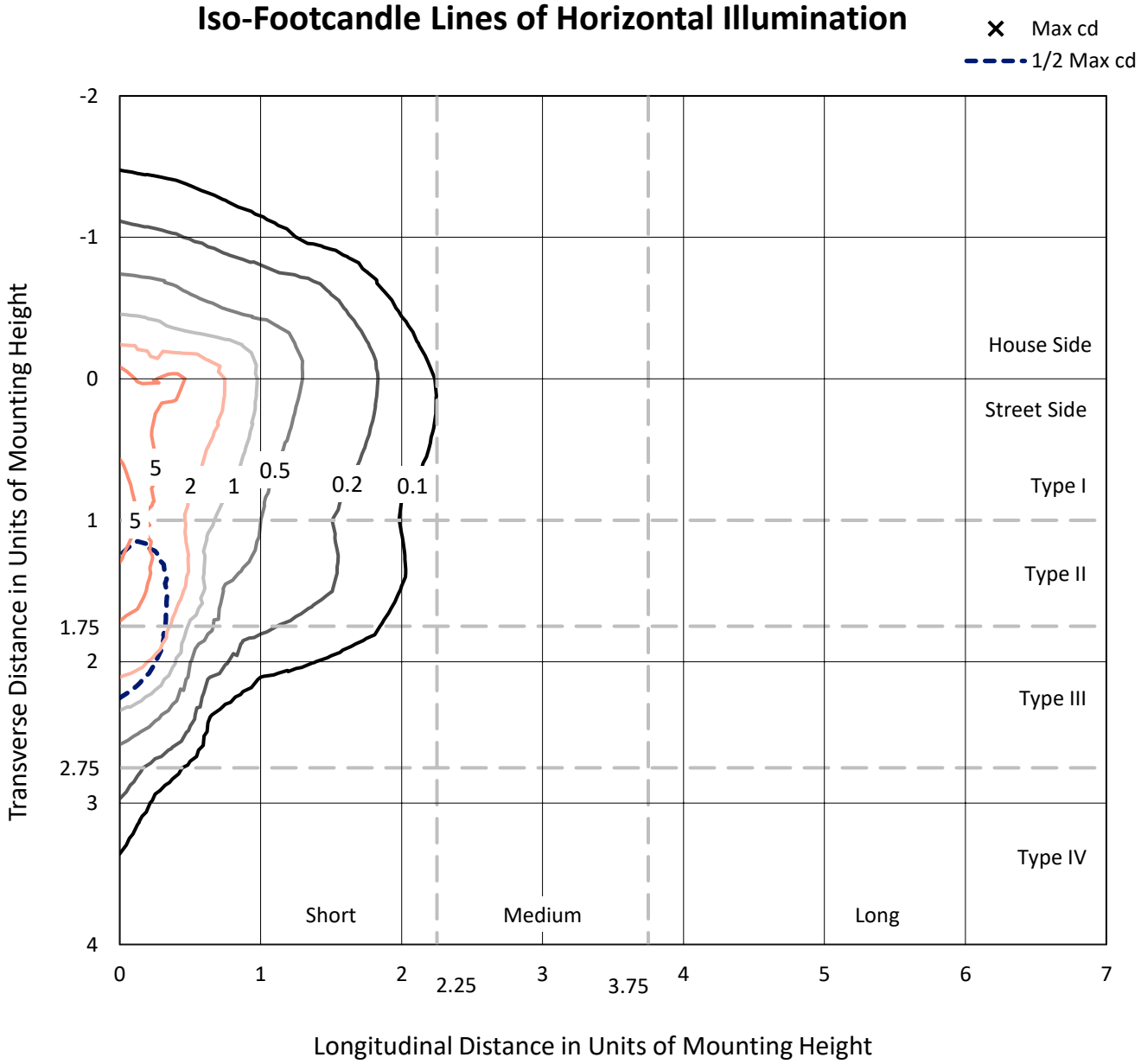


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Iso-Footcandle Lines of Horizontal Illumination



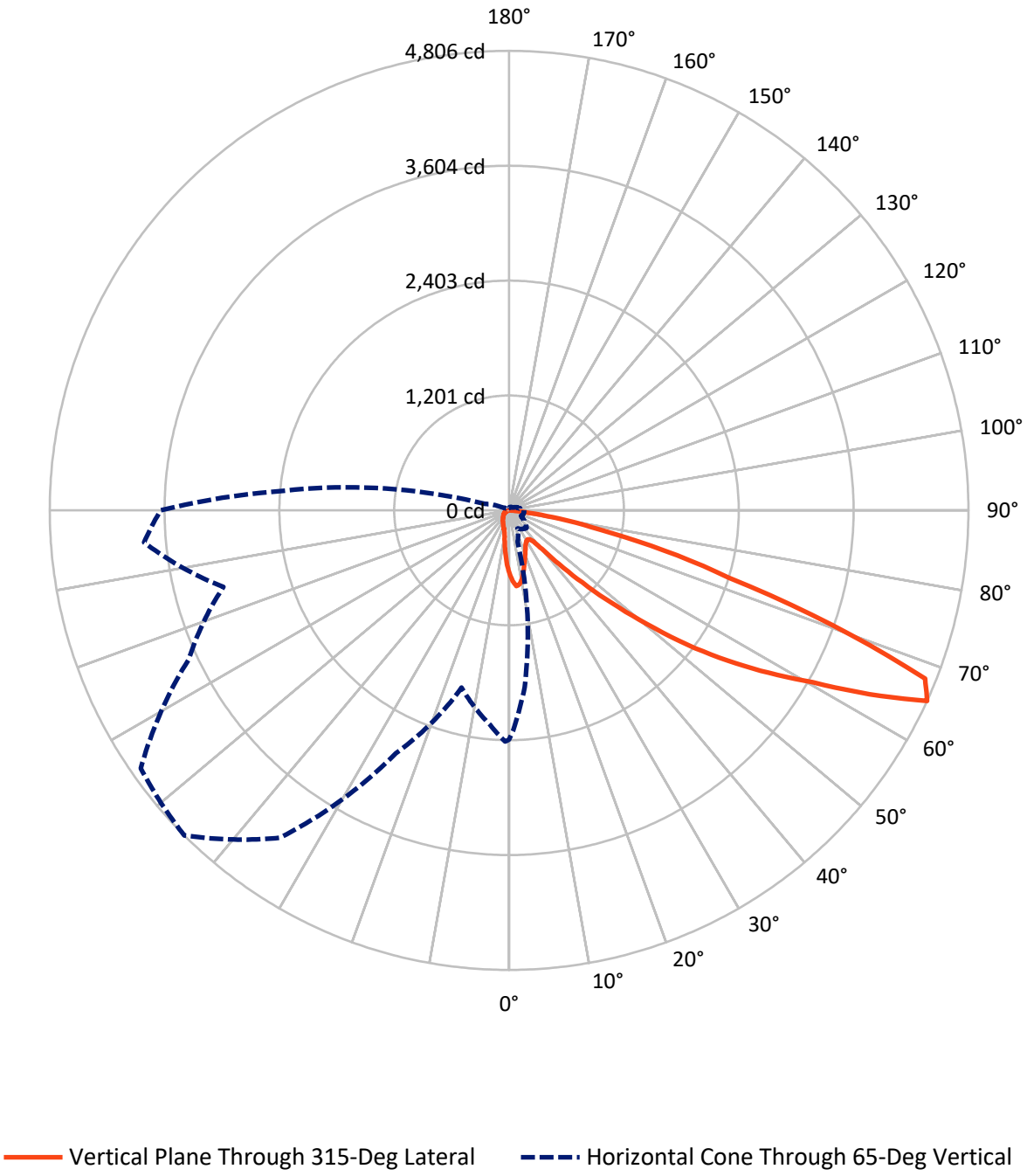
Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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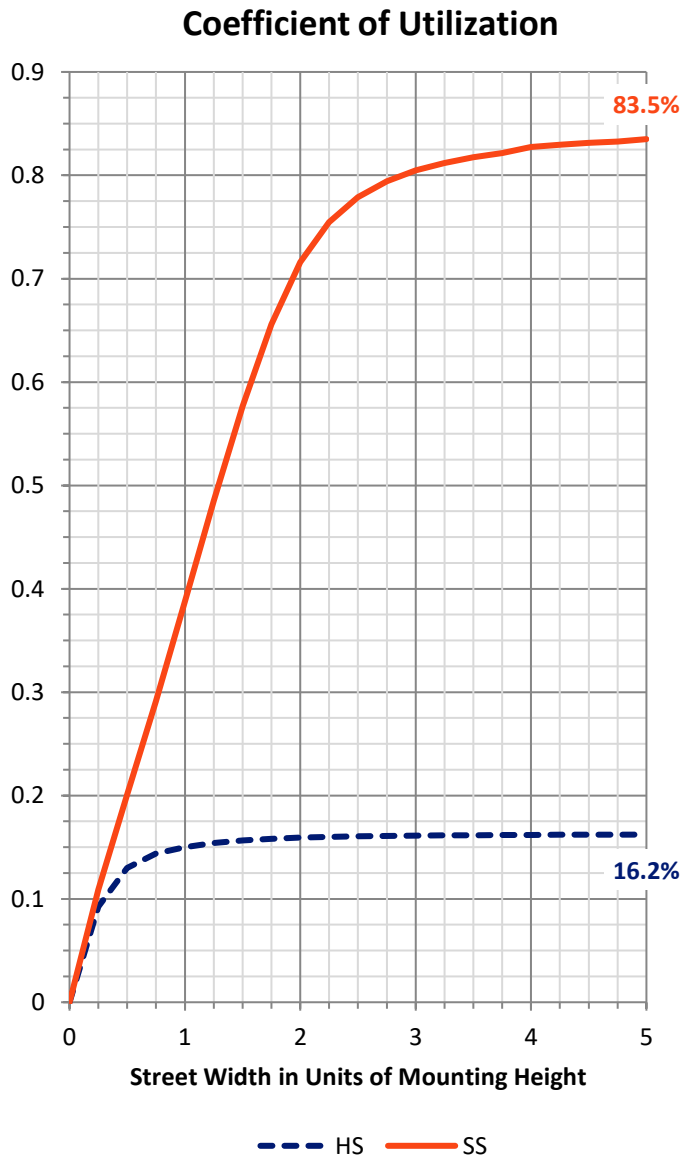
REPORT NUMBER: P1704729
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	524.5	0.0	524.5
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	2677.6	0.0	2677.6
	% Fixture	83.6	0.0	83.6
Total	Lumens	3202.0	0.0	3202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.8
10°-20°	145.2	4.5
20°-30°	197.5	6.2
30°-40°	241.2	7.5
40°-50°	373.4	11.7
50°-60°	726.6	22.7
60°-70°	981.0	30.6
70°-80°	445.2	13.9
80°-90°	32.9	1.0
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°	3202.0	100.0
0°-180°	3202.0	100.0



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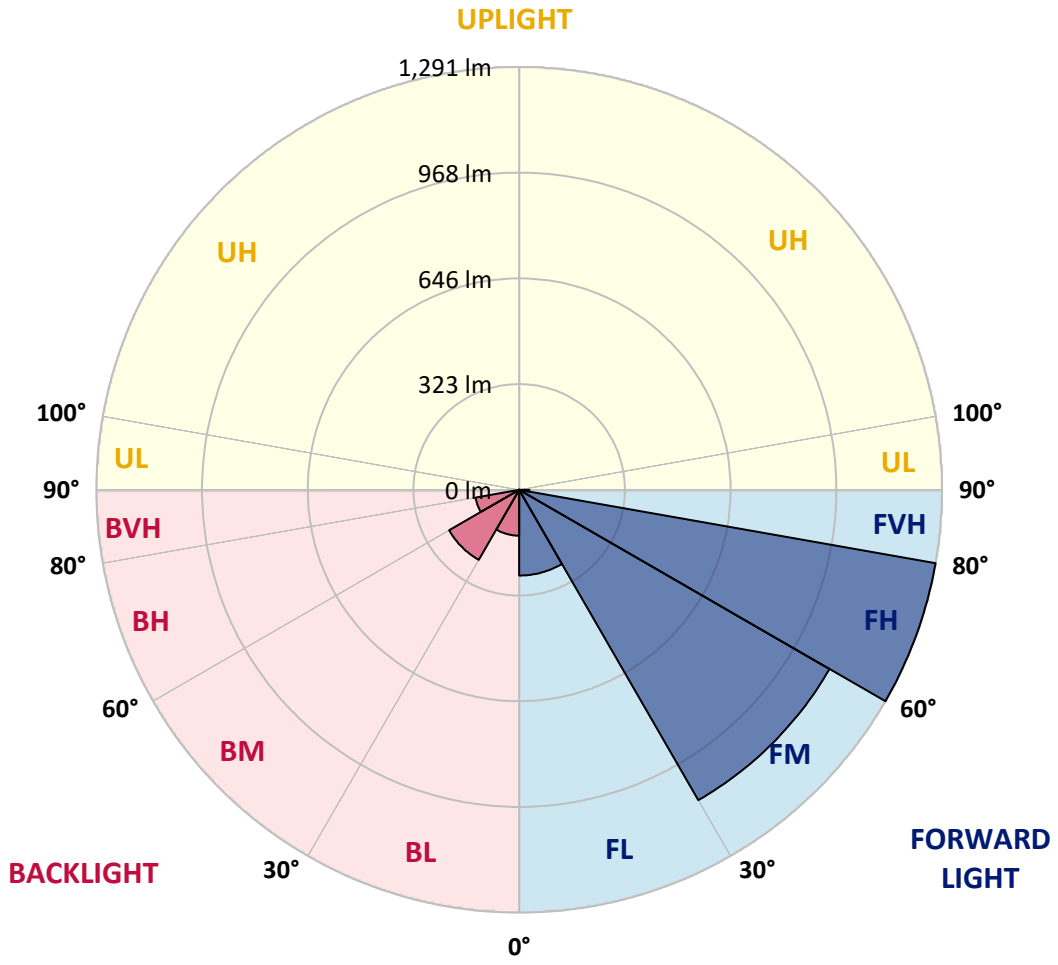
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	261.7	8.2			
FM	(30°-60°)	1094.1	34.2			
FH	(60°-80°)	1291.1	40.3			G1/1800
FVH	(80°-90°)	30.7	1.0			G1/100
BL	(0°-30°)	140.0	4.4	B1/500		
BM	(30°-60°)	247.0	7.7	B1/1000		
BH	(60°-80°)	135.2	4.2	B1/500		G1/500
BVH	(80°-90°)	2.3	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	726.8	720.8	718.8	706.8	694.8	684.8	668.9	656.9	638.9	626.9	615.0
5°	770.7	766.7	764.7	734.7	716.8	692.8	666.9	636.9	607.0	581.0	547.1
7.5°	790.7	780.7	776.7	748.7	718.8	692.8	664.9	630.9	591.0	553.1	503.1
10°	788.7	782.7	784.7	758.7	720.8	686.8	656.9	632.9	599.0	559.0	495.2
12.5°	786.7	782.7	792.7	768.7	726.8	690.8	658.9	640.9	617.0	591.0	531.1
15°	770.7	776.7	794.6	782.7	728.8	690.8	654.9	628.9	626.9	642.9	609.0
17.5°	766.7	770.7	796.6	792.7	736.7	684.8	632.9	615.0	640.9	692.8	696.8
20°	758.7	766.7	804.6	804.6	740.7	660.9	589.0	579.0	636.9	714.8	752.7
22.5°	750.7	760.7	804.6	820.6	742.7	624.9	529.1	537.1	609.0	690.8	746.7
25°	744.7	760.7	818.6	850.6	746.7	593.0	479.2	507.1	565.0	630.9	676.8
27.5°	748.7	764.7	836.6	898.5	760.7	555.1	451.2	485.2	529.1	565.0	599.0
30°	758.7	774.7	870.5	944.4	788.7	525.1	441.2	475.2	501.1	519.1	535.1
32.5°	776.7	798.6	910.5	1002.3	820.6	509.1	437.3	459.2	471.2	479.2	481.2
35°	812.6	838.6	962.4	1062.2	826.6	519.1	443.2	433.3	437.3	433.3	427.3
37.5°	858.5	886.5	1034.2	1130.1	800.6	515.1	447.2	405.3	399.3	383.3	379.4
40°	922.4	958.4	1132.1	1204.0	758.7	485.2	449.2	377.4	355.4	339.4	335.4
42.5°	1026.3	1050.2	1261.9	1291.8	702.8	453.2	427.3	347.4	317.5	301.5	293.5
45°	1146.0	1188.0	1465.5	1383.6	632.9	415.3	391.3	317.5	285.5	265.5	255.6
47.5°	1345.7	1417.6	1713.1	1503.4	563.0	381.4	345.4	285.5	249.6	231.6	233.6
50°	1689.1	1787.0	2144.4	1665.2	499.2	361.4	297.5	245.6	217.6	213.6	219.6
52.5°	2218.2	2334.0	2701.4	1794.9	457.2	349.4	265.5	213.6	201.7	201.7	211.6
55°	2869.1	3014.9	3218.5	1681.1	431.3	339.4	259.6	187.7	191.7	193.7	203.7
57.5°	3765.6	3797.5	3516.0	1435.6	381.4	331.4	265.5	175.7	183.7	189.7	197.7
60°	3983.2	3961.3	3338.3	1032.2	327.4	315.5	271.5	175.7	173.7	181.7	187.7
62.5°	3426.2	3358.3	2849.2	618.9	271.5	281.5	275.5	183.7	157.7	167.7	171.7
65°	*2397.9*	*2310.1*	*1856.8*	*343.4*	*209.6*	*237.6*	*259.6*	*193.7*	*137.8*	*153.7*	*157.7*
67.5°	1411.6	1379.7	994.3	189.7	143.8	187.7	223.6	193.7	125.8	137.8	141.8
70°	756.7	676.8	393.3	103.8	101.8	133.8	183.7	169.7	111.8	123.8	127.8
72.5°	495.2	425.3	189.7	57.9	75.9	93.8	121.8	135.8	103.8	111.8	115.8
75°	315.5	269.5	83.9	35.9	57.9	55.9	91.8	99.8	89.8	95.8	101.8
77.5°	109.8	91.8	28.0	20.0	37.9	39.9	67.9	59.9	69.9	71.9	79.9
80°	45.9	37.9	18.0	16.0	20.0	24.0	47.9	37.9	39.9	49.9	55.9
82.5°	12.0	12.0	8.0	10.0	12.0	14.0	18.0	24.0	24.0	33.9	33.9
85°	4.0	4.0	4.0	6.0	6.0	6.0	10.0	14.0	14.0	18.0	16.0
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	6.0	6.0	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°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	607.0	599.0	589.0	577.0	579.0	571.0	577.0	579.0	587.0	595.0	595.0
5°	529.1	521.1	493.2	477.2	461.2	463.2	459.2	461.2	479.2	495.2	507.1
7.5°	479.2	459.2	415.3	385.3	363.4	361.4	357.4	371.4	381.4	403.3	421.3
10°	465.2	431.3	365.4	313.5	285.5	277.5	281.5	283.5	295.5	317.5	331.4
12.5°	485.2	437.3	339.4	265.5	239.6	231.6	229.6	227.6	229.6	243.6	247.6
15°	565.0	487.2	341.4	243.6	213.6	205.7	197.7	189.7	183.7	185.7	189.7
17.5°	658.9	573.0	361.4	233.6	205.7	193.7	177.7	169.7	163.7	159.7	159.7
20°	722.8	642.9	375.4	225.6	195.7	177.7	165.7	155.7	149.7	147.7	147.7
22.5°	742.7	676.8	379.4	221.6	183.7	163.7	153.7	145.8	139.8	137.8	137.8
25°	696.8	646.9	361.4	215.6	169.7	149.7	141.8	135.8	129.8	129.8	129.8
27.5°	607.0	575.0	333.4	209.6	157.7	139.8	133.8	125.8	121.8	121.8	121.8
30°	525.1	501.1	305.5	197.7	147.7	129.8	123.8	117.8	113.8	113.8	115.8
32.5°	469.2	437.3	285.5	183.7	141.8	121.8	115.8	111.8	107.8	105.8	107.8
35°	417.3	393.3	273.5	173.7	131.8	113.8	107.8	105.8	99.8	99.8	99.8
37.5°	373.4	355.4	267.5	161.7	125.8	105.8	99.8	97.8	91.8	91.8	93.8
40°	331.4	321.5	257.6	153.7	121.8	99.8	91.8	89.8	85.9	83.9	85.9
42.5°	291.5	289.5	245.6	145.8	113.8	91.8	83.9	81.9	77.9	77.9	79.9
45°	259.6	263.6	231.6	141.8	105.8	85.9	75.9	73.9	69.9	69.9	71.9
47.5°	237.6	241.6	215.6	139.8	101.8	79.9	69.9	65.9	63.9	63.9	67.9
50°	227.6	227.6	205.7	143.8	99.8	75.9	63.9	59.9	57.9	59.9	63.9
52.5°	215.6	221.6	199.7	147.7	91.8	71.9	59.9	55.9	55.9	57.9	59.9
55°	211.6	213.6	189.7	143.8	81.9	67.9	57.9	55.9	55.9	55.9	57.9
57.5°	201.7	205.7	167.7	129.8	71.9	61.9	53.9	51.9	51.9	51.9	53.9
60°	189.7	189.7	147.7	111.8	67.9	57.9	49.9	49.9	49.9	47.9	47.9
62.5°	173.7	163.7	123.8	93.8	59.9	51.9	45.9	45.9	41.9	39.9	39.9
65°	*153.7*	*135.8*	*97.8*	*79.9*	*51.9*	*43.9*	*41.9*	*39.9*	*33.9*	*28.0*	*28.0*
67.5°	133.8	111.8	73.9	63.9	43.9	37.9	35.9	35.9	29.9	24.0	24.0
70°	121.8	91.8	57.9	47.9	35.9	29.9	29.9	29.9	26.0	20.0	20.0
72.5°	109.8	75.9	47.9	39.9	28.0	22.0	26.0	26.0	22.0	16.0	16.0
75°	95.8	61.9	37.9	29.9	20.0	18.0	18.0	20.0	16.0	14.0	12.0
77.5°	75.9	45.9	26.0	18.0	14.0	12.0	14.0	14.0	10.0	8.0	8.0
80°	51.9	28.0	18.0	12.0	10.0	8.0	8.0	6.0	6.0	6.0	4.0
82.5°	29.9	18.0	10.0	8.0	6.0	4.0	2.0	4.0	4.0	4.0	4.0
85°	12.0	8.0	6.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	605.0	611.0	630.9	640.9	656.9	670.9	686.8	698.8	714.8	708.8	718.8
5°	517.1	545.1	579.0	613.0	642.9	676.8	706.8	740.7	756.7	762.7	772.7
7.5°	425.3	469.2	517.1	573.0	617.0	668.9	714.8	756.7	774.7	780.7	788.7
10°	339.4	383.3	441.2	505.1	571.0	642.9	698.8	754.7	774.7	772.7	776.7
12.5°	263.6	299.5	359.4	431.3	511.1	599.0	686.8	748.7	766.7	754.7	742.7
15°	195.7	225.6	283.5	359.4	451.2	551.1	658.9	742.7	746.7	726.8	702.8
17.5°	161.7	171.7	205.7	287.5	395.3	513.1	630.9	732.8	728.8	700.8	666.9
20°	145.8	147.7	151.7	197.7	325.4	467.2	603.0	722.8	716.8	676.8	630.9
22.5°	137.8	137.8	137.8	143.8	221.6	399.3	577.0	712.8	704.8	654.9	603.0
25°	129.8	129.8	129.8	129.8	145.8	307.5	535.1	706.8	698.8	640.9	583.0
27.5°	121.8	125.8	123.8	123.8	125.8	219.6	469.2	702.8	698.8	628.9	571.0
30°	115.8	117.8	117.8	115.8	117.8	137.8	395.3	690.8	696.8	624.9	565.0
32.5°	109.8	111.8	111.8	109.8	109.8	115.8	327.4	676.8	706.8	628.9	567.0
35°	101.8	105.8	105.8	103.8	103.8	107.8	259.6	664.9	726.8	646.9	577.0
37.5°	95.8	97.8	97.8	97.8	97.8	101.8	203.7	650.9	750.7	662.9	591.0
40°	87.9	91.8	91.8	91.8	91.8	95.8	183.7	638.9	778.7	686.8	620.9
42.5°	81.9	85.9	85.9	85.9	87.9	91.8	171.7	622.9	834.6	736.7	664.9
45°	75.9	77.9	79.9	79.9	79.9	87.9	155.7	640.9	912.4	798.6	728.8
47.5°	67.9	71.9	71.9	73.9	73.9	83.9	133.8	762.7	1044.2	876.5	816.6
50°	63.9	65.9	67.9	67.9	67.9	79.9	135.8	944.4	1205.9	992.3	926.4
52.5°	61.9	63.9	63.9	61.9	61.9	75.9	161.7	1098.1	1449.5	1152.0	1086.2
55°	57.9	59.9	59.9	57.9	55.9	65.9	141.8	1196.0	1765.0	1475.5	1315.8
57.5°	53.9	55.9	55.9	51.9	51.9	55.9	105.8	1180.0	2310.1	2078.5	1785.0
60°	49.9	49.9	51.9	47.9	45.9	49.9	85.9	1002.3	2759.3	3150.6	2527.7
62.5°	41.9	43.9	45.9	43.9	39.9	43.9	69.9	632.9	2843.2	3891.4	3951.3
65°	*31.9*	*37.9*	*39.9*	*39.9*	*33.9*	*37.9*	*61.9*	*261.6*	*2358.0*	*3645.8*	*3833.5*
67.5°	26.0	31.9	33.9	33.9	29.9	37.9	43.9	89.8	1864.8	3258.5	3472.1
70°	22.0	28.0	29.9	26.0	22.0	31.9	28.0	47.9	1190.0	2657.5	3084.8
72.5°	18.0	24.0	24.0	20.0	16.0	26.0	20.0	31.9	668.9	2132.4	2705.4
75°	14.0	18.0	18.0	16.0	12.0	16.0	14.0	22.0	335.4	1549.4	2070.5
77.5°	8.0	12.0	14.0	12.0	8.0	10.0	10.0	14.0	129.8	912.4	1351.7
80°	6.0	8.0	8.0	8.0	6.0	6.0	4.0	8.0	31.9	231.6	407.3
82.5°	4.0	4.0	4.0	4.0	2.0	2.0	2.0	4.0	12.0	55.9	83.9
85°	2.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	12.0	20.0
87.5°	2.0	2.0	2.0	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: P1704729
CATALOG NUMBER: GSS-SB2A-AMB-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	660.9	660.9	660.9	*660.9*	660.9	660.9	660.9	660.9	660.9	660.9
2.5°	726.8	728.8	734.7	*740.7*	734.7	732.8	728.8	724.8	726.8	726.8
5°	782.7	790.7	794.6	*794.6*	792.7	788.7	786.7	778.7	768.7	770.7
7.5°	786.7	784.7	780.7	*782.7*	786.7	790.7	792.7	794.6	786.7	790.7
10°	754.7	738.7	732.8	*732.8*	730.8	748.7	762.7	784.7	786.7	788.7
12.5°	708.8	678.8	666.9	*660.9*	664.9	692.8	724.8	770.7	780.7	786.7
15°	652.9	617.0	599.0	*593.0*	605.0	628.9	680.8	744.7	768.7	770.7
17.5°	601.0	559.0	539.1	*533.1*	549.1	581.0	634.9	730.8	756.7	766.7
20°	557.1	513.1	487.2	*481.2*	499.2	545.1	609.0	708.8	748.7	758.7
22.5°	523.1	473.2	443.2	*437.3*	459.2	507.1	581.0	690.8	734.7	750.7
25°	495.2	441.2	409.3	*401.3*	425.3	485.2	563.0	676.8	730.8	744.7
27.5°	481.2	421.3	385.3	*379.4*	407.3	465.2	551.1	662.9	726.8	748.7
30°	471.2	407.3	371.4	*365.4*	397.3	459.2	545.1	664.9	732.8	758.7
32.5°	471.2	407.3	367.4	*361.4*	395.3	459.2	549.1	672.9	748.7	776.7
35°	477.2	415.3	375.4	*371.4*	407.3	473.2	561.0	688.8	778.7	812.6
37.5°	495.2	439.3	417.3	*411.3*	451.2	509.1	593.0	726.8	824.6	858.5
40°	533.1	495.2	507.1	*529.1*	561.0	589.0	650.9	788.7	882.5	922.4
42.5°	591.0	617.0	700.8	*766.7*	744.7	716.8	740.7	868.5	982.3	1026.3
45°	702.8	810.6	1002.3	*1076.2*	1046.2	926.4	868.5	978.3	1088.1	1146.0
47.5°	850.6	1050.2	1327.7	*1449.5*	1349.7	1160.0	1014.3	1132.1	1279.8	1345.7
50°	1010.3	1361.7	1727.1	*1862.8*	1681.1	1401.6	1186.0	1315.8	1569.3	1689.1
52.5°	1192.0	1683.1	2180.3	*2332.0*	2062.5	1607.3	1351.7	1637.2	2054.5	2218.2
55°	1341.7	1952.7	2615.5	*2771.3*	2423.9	1775.0	1523.4	2194.3	2755.3	2869.1
57.5°	1511.4	2170.3	2992.9	*3206.5*	2683.4	1922.7	1721.1	2907.1	3593.9	3765.6
60°	1681.1	2463.8	3332.3	*3649.8*	3008.9	2098.4	1952.7	3410.2	3947.3	3983.2
62.5°	2262.2	3040.8	4003.2	*4232.8*	3544.0	2519.7	2266.1	3188.6	3430.2	3426.2
65°	*3094.7*	*3701.7*	*4704.0*	*4805.8*	*4178.9*	*2803.2*	*1918.7*	*2254.2*	*2417.9*	*2397.9*
67.5°	2629.5	3583.9	4642.1	*4694.0*	3969.2	2433.9	1253.9	1475.5	1479.5	1411.6
70°	2242.2	3122.7	4117.0	*3579.9*	3462.1	2110.4	762.7	896.5	800.6	756.7
72.5°	1856.8	2447.8	3368.3	*2403.9*	2943.0	1735.0	511.1	632.9	533.1	495.2
75°	1491.5	1960.7	2080.5	*1675.1*	1884.8	1395.6	403.3	455.2	355.4	315.5
77.5°	1014.3	1337.7	1018.3	*972.3*	1289.8	978.3	163.7	163.7	121.8	109.8
80°	389.3	593.0	529.1	*535.1*	706.8	485.2	83.9	65.9	47.9	45.9
82.5°	133.8	147.7	179.7	*201.7*	311.5	253.6	37.9	16.0	14.0	12.0
85°	24.0	71.9	73.9	*57.9*	49.9	61.9	10.0	4.0	2.0	4.0
87.5°	0.0	0.0	0.0	*0.0*	2.0	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: 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

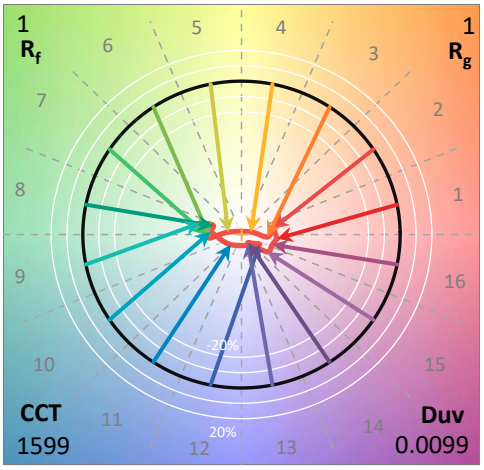
Test Information

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

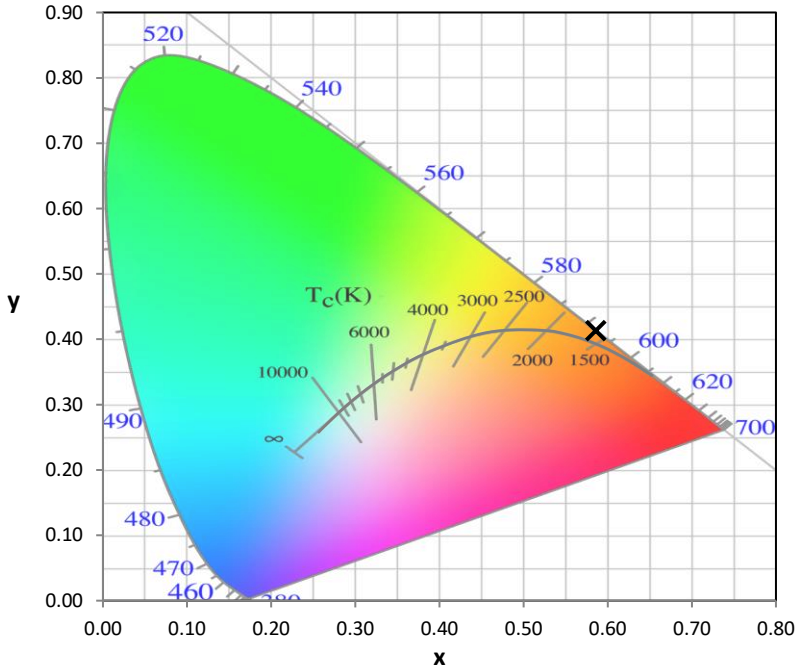
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

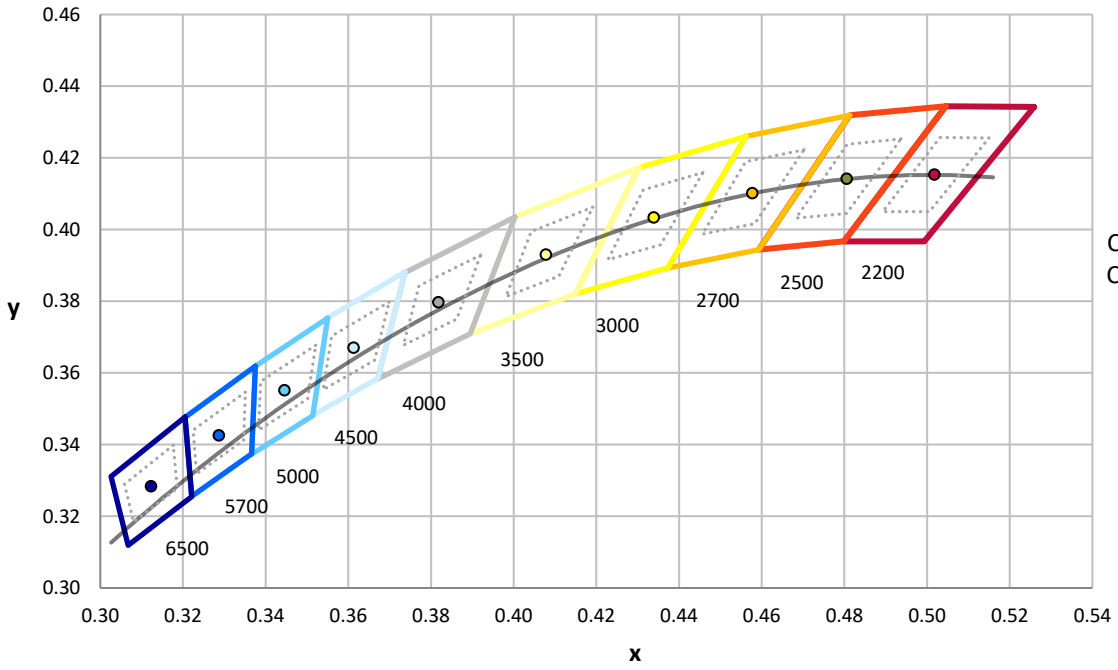
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

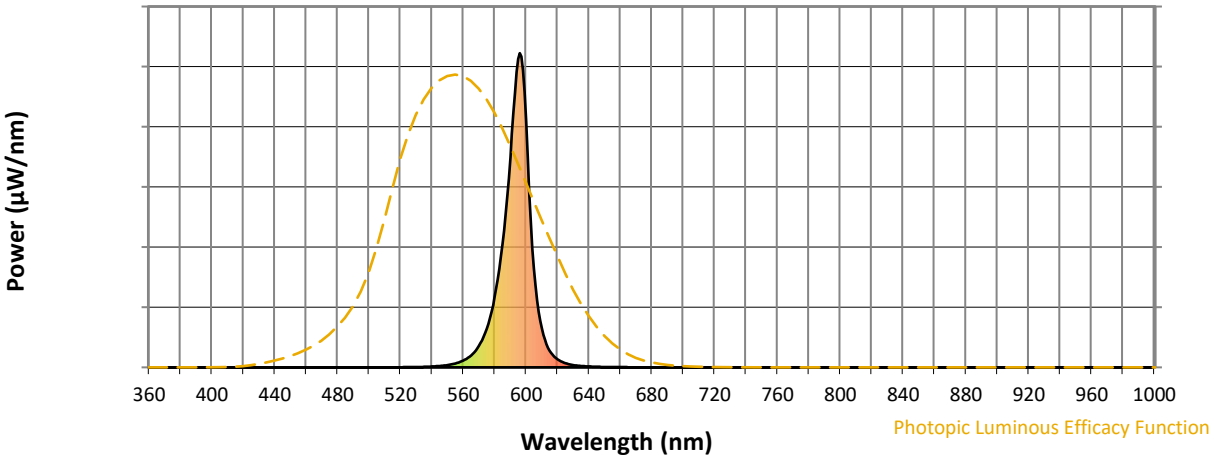


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

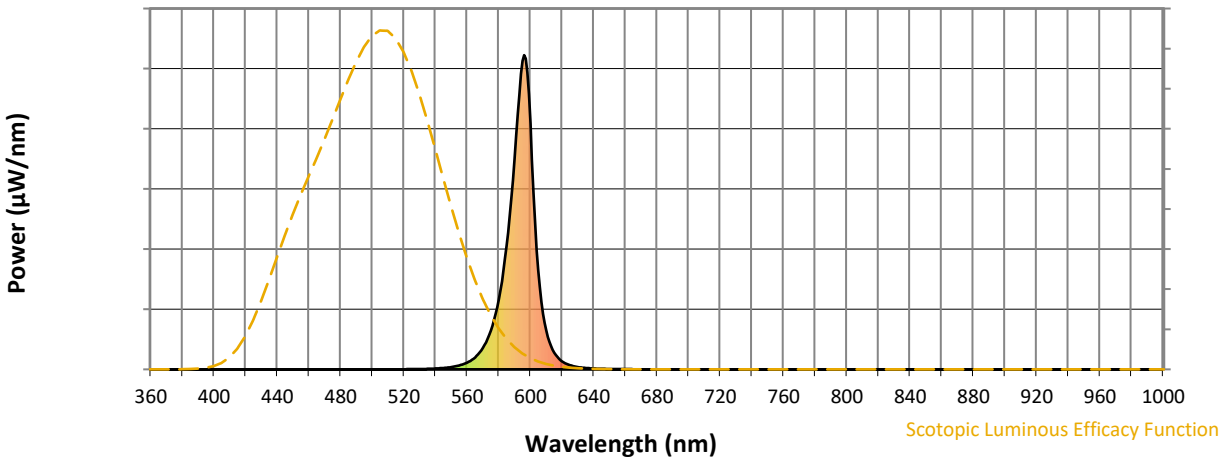


Photopic Lumens: NR

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

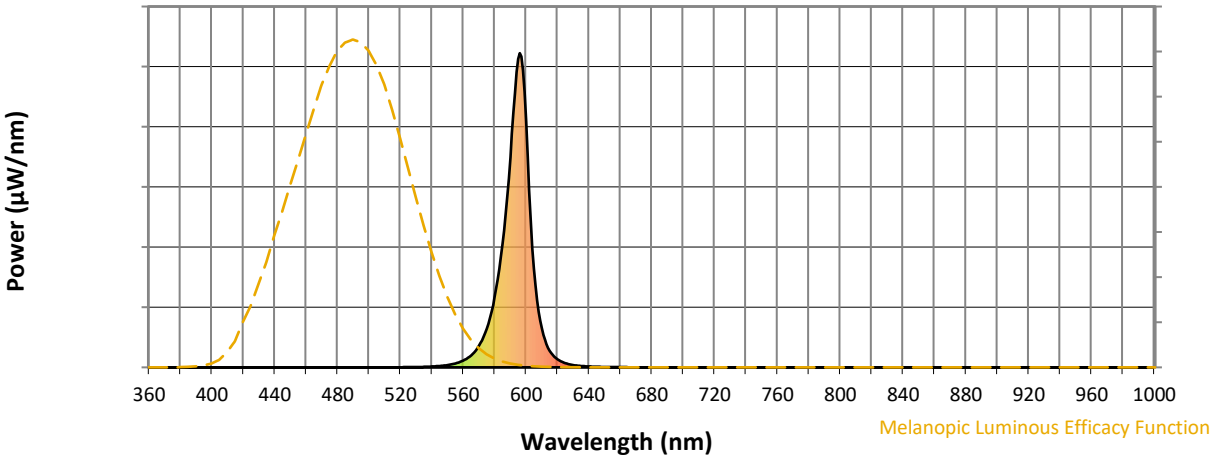


Scotopic Lumens: NR **S/P: 0.23**

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			

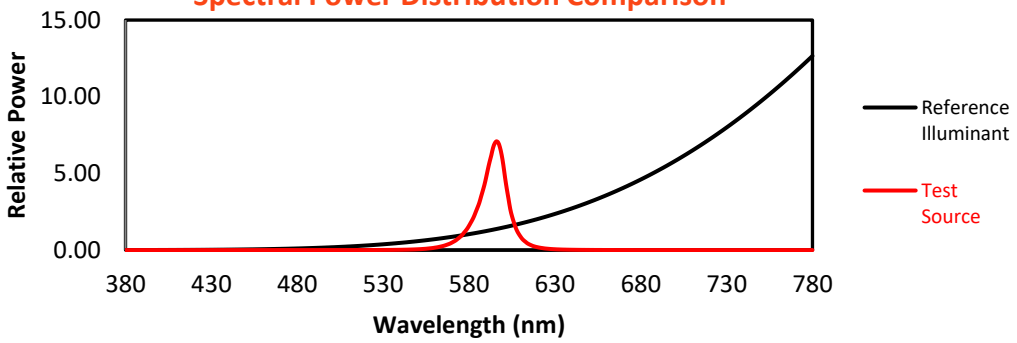
REPORT NUMBER: SP3-2509-541-1

TM-30-18

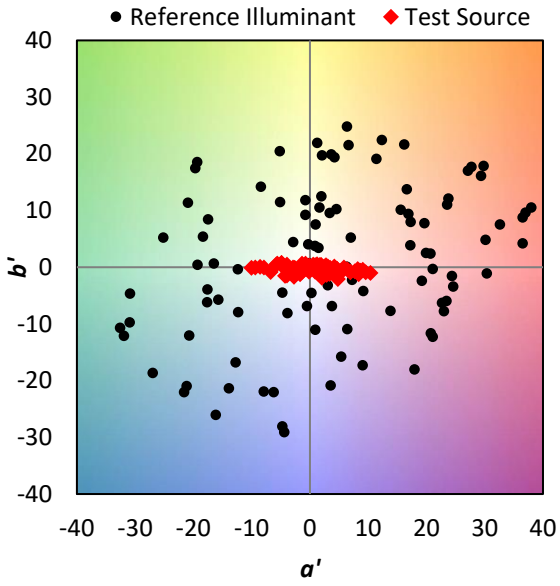
Summary

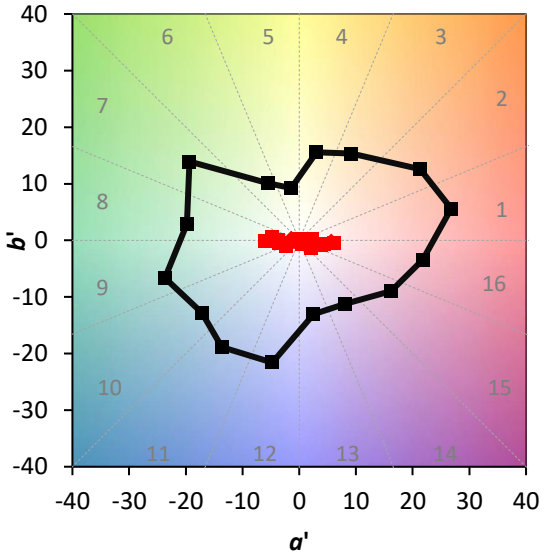
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

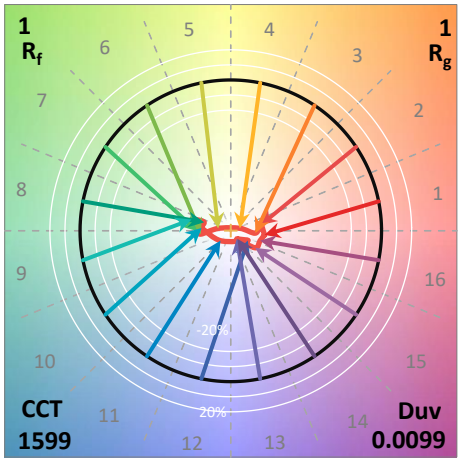
Spectral Power Distribution Comparison

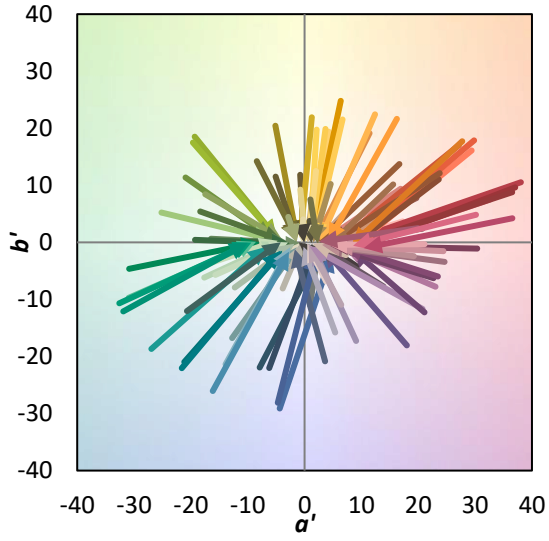


Color Vector Graphics







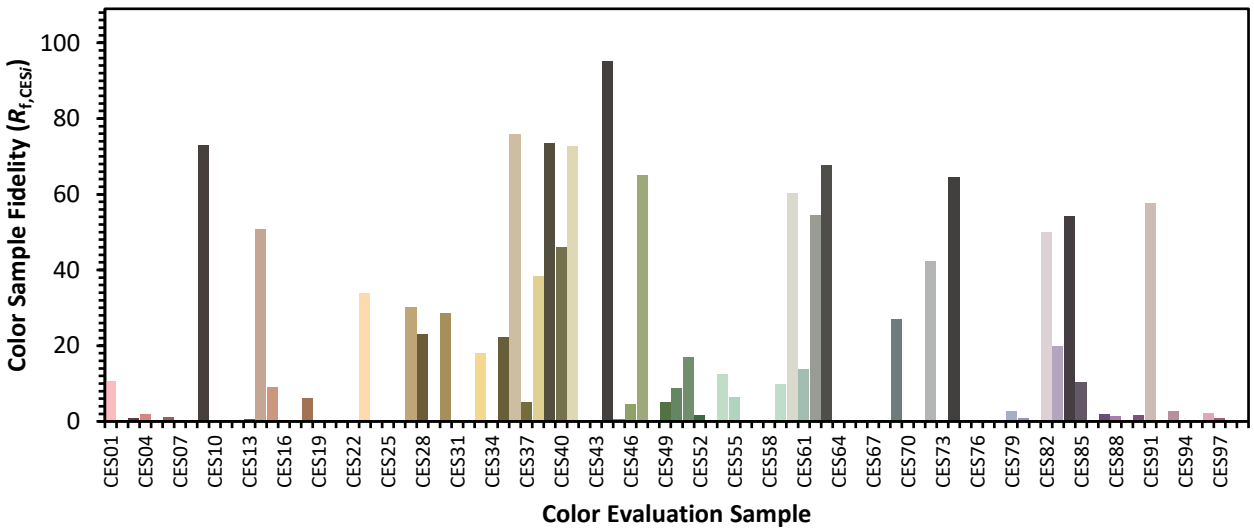


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

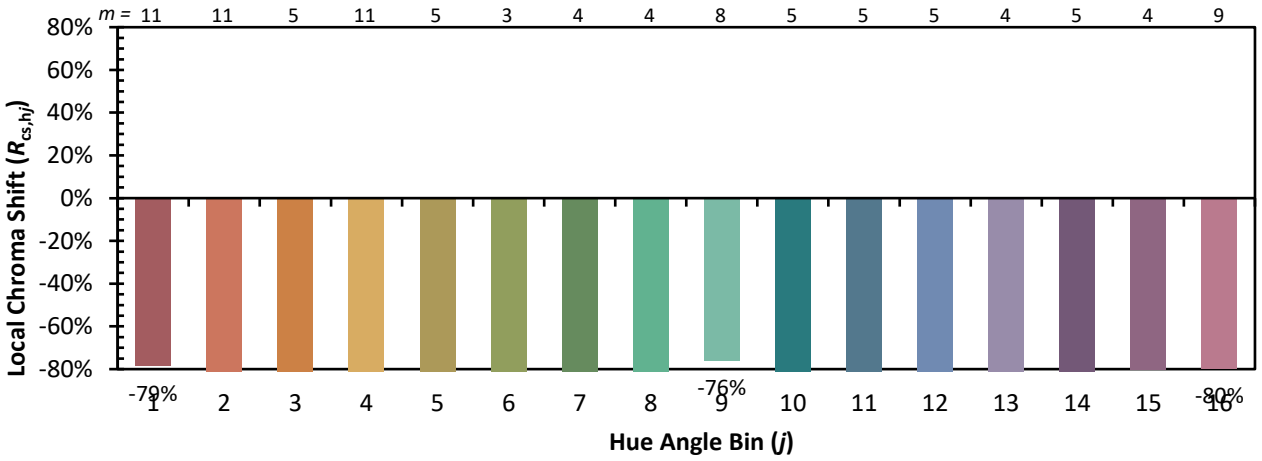
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 =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

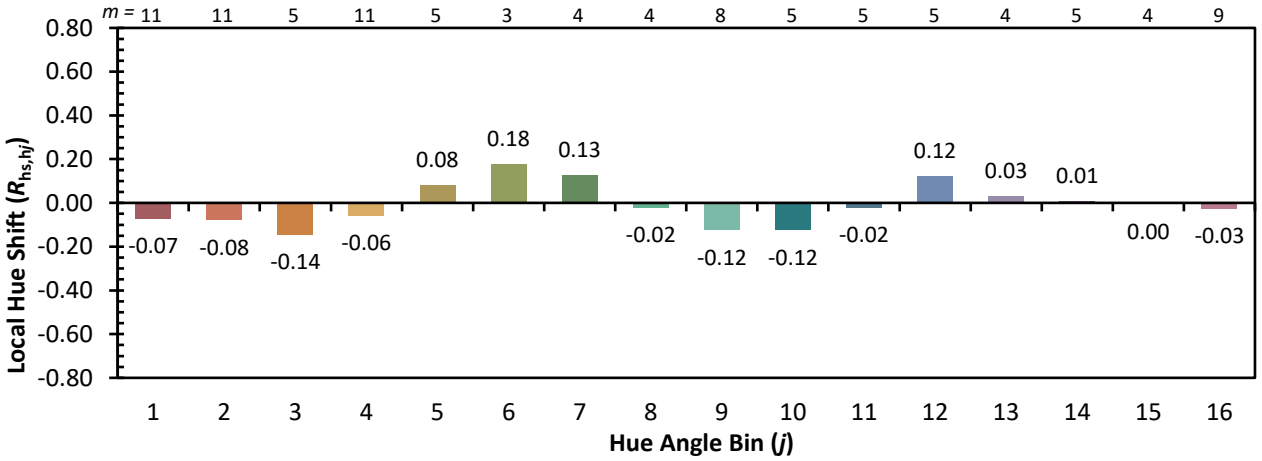


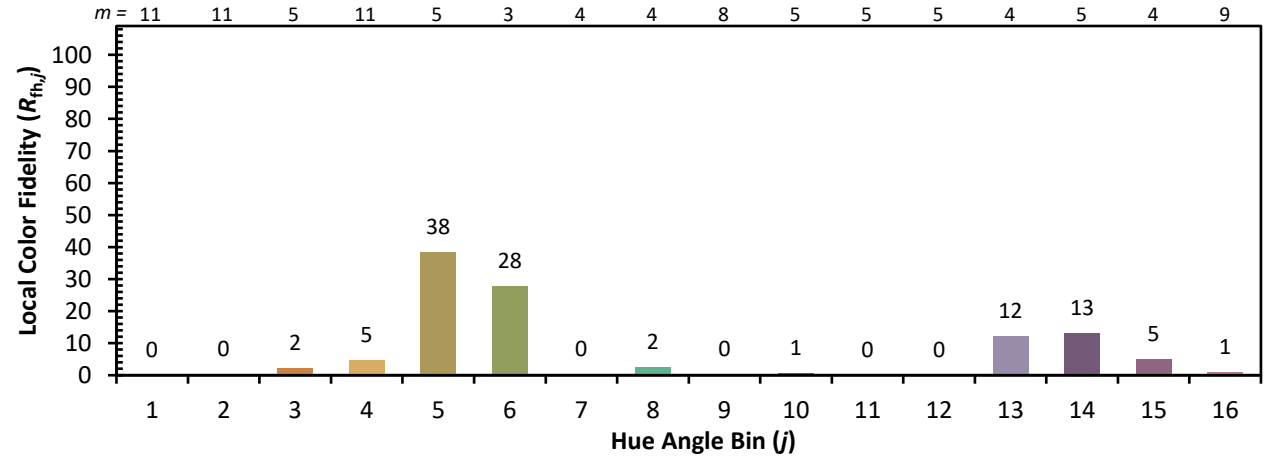
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Color Rendition by Hue-Angle Bin



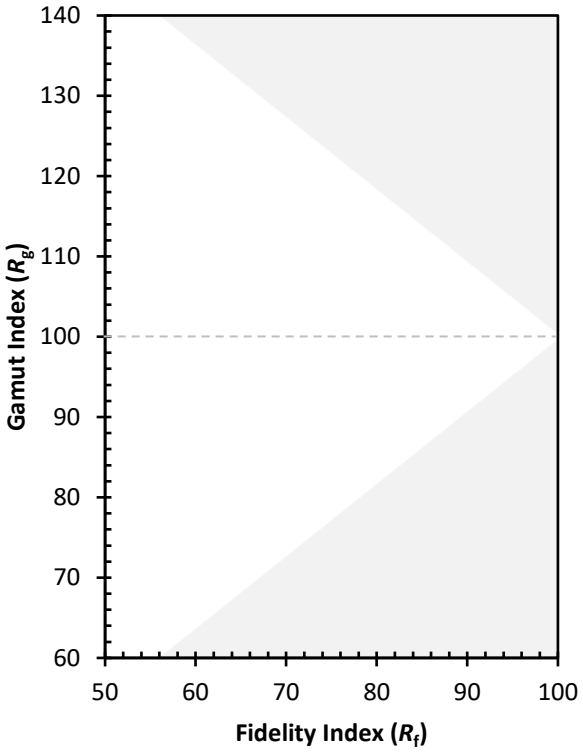


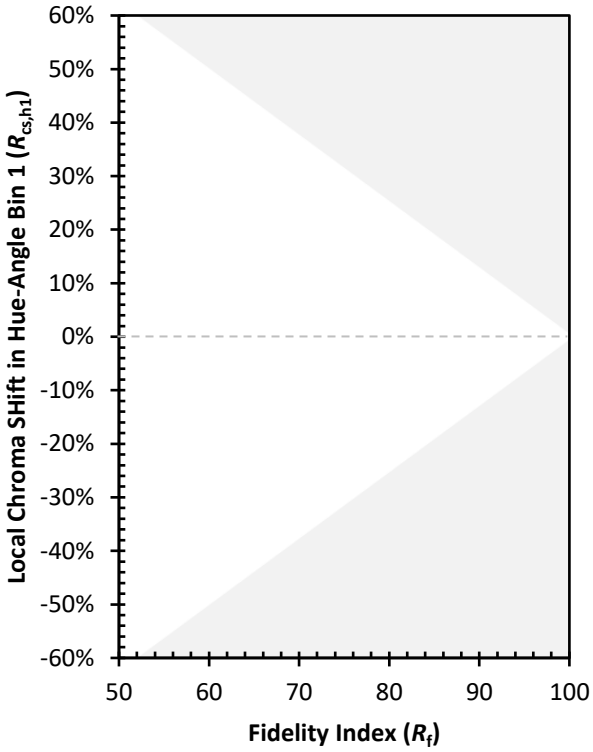


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Measure Comparisons





(END OF REPORT)