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: P1704728

Luminaire Tested: GSS-SB1A-AMB-U-SLL-HSS

Issue Date: 10/28/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1704728
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1A-AMB-U-SLL-HSS
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 1SQUARE 36W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(26) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1574.5 lumens
Efficiency:	N/A
Efficacy:	43.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	35.9
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

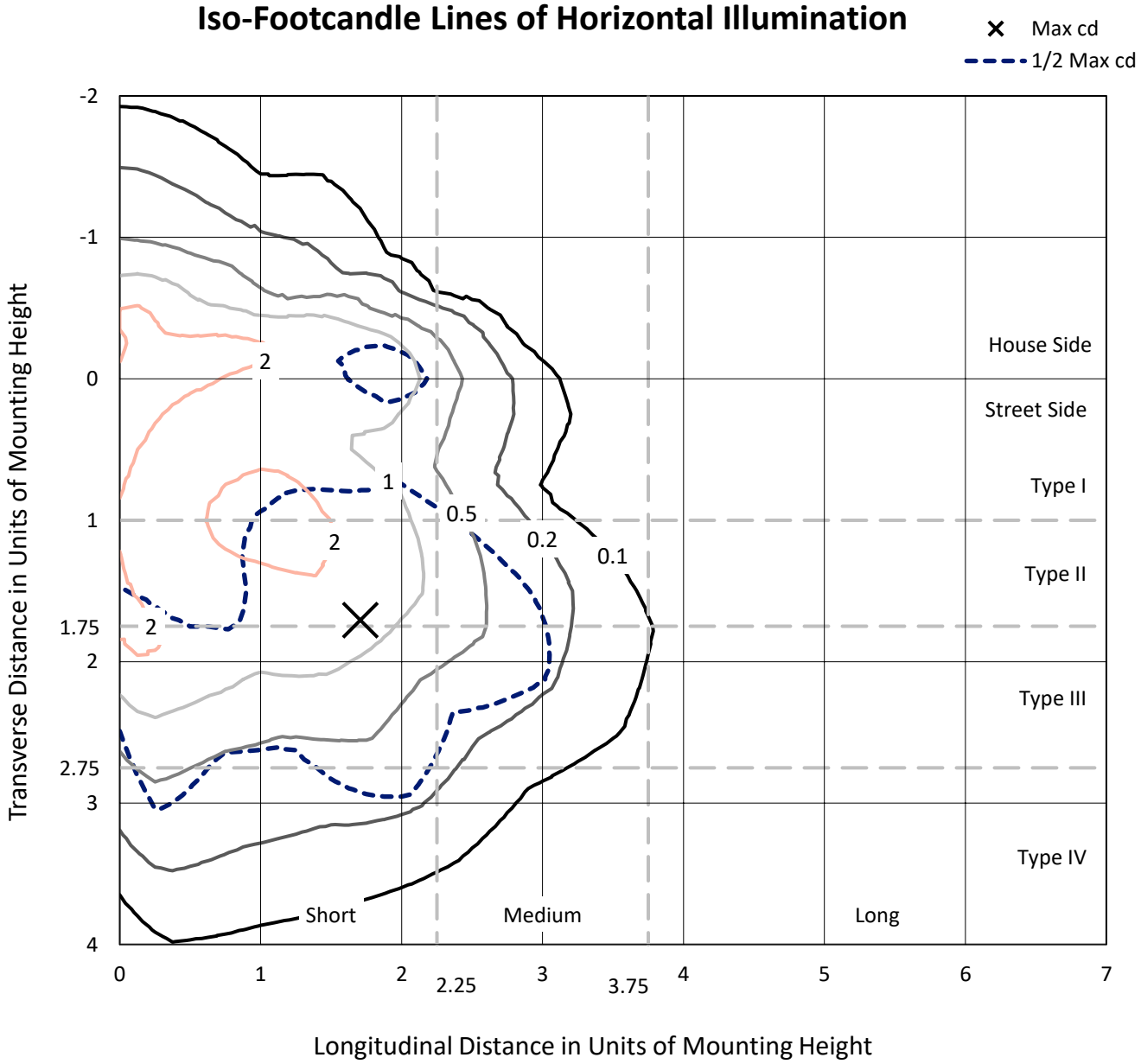


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Iso-Footcandle Lines of Horizontal Illumination



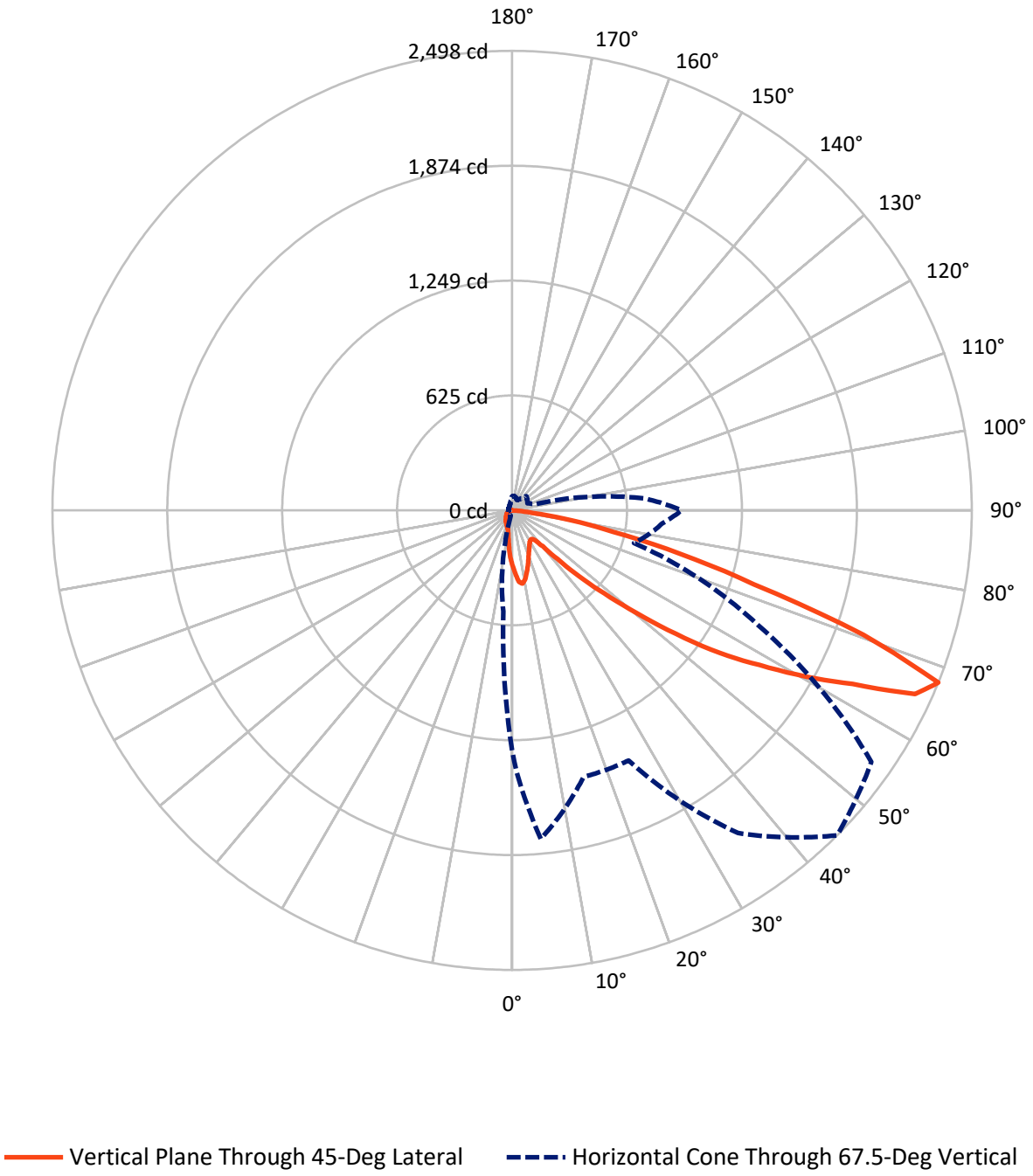
Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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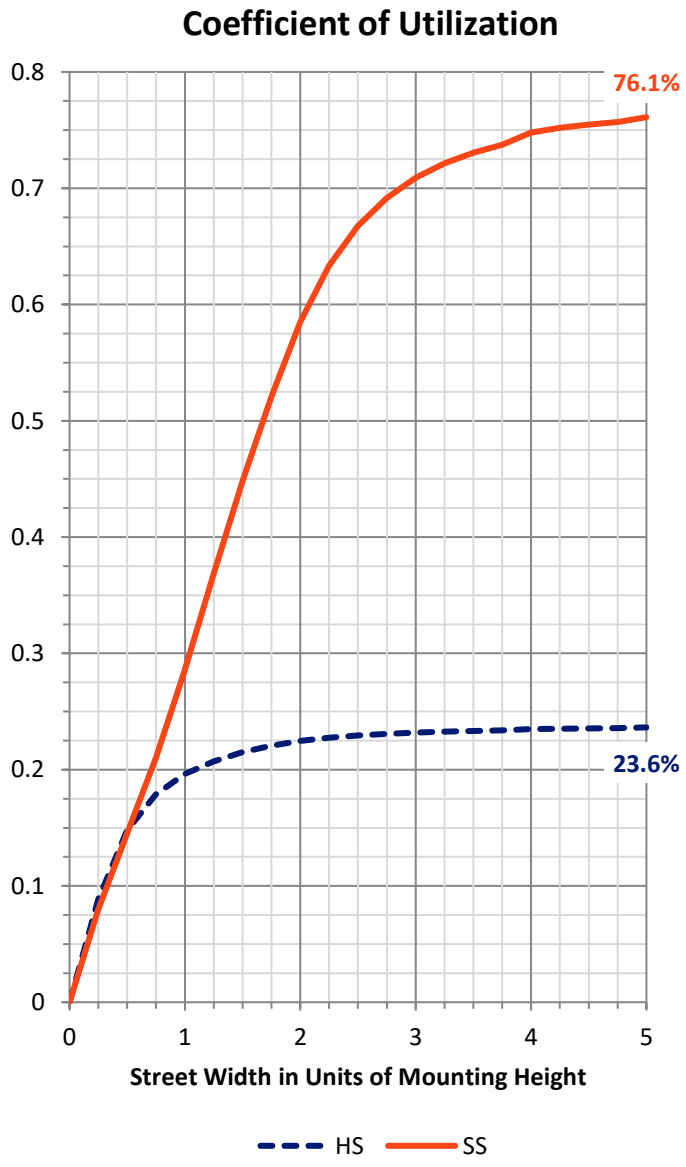
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.7	0.0	375.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	1198.8	0.0	1198.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	1574.5	0.0	1574.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	1.7
10°-20°	68.4	4.3
20°-30°	97.0	6.2
30°-40°	118.6	7.5
40°-50°	178.5	11.3
50°-60°	337.6	21.4
60°-70°	489.1	31.1
70°-80°	237.2	15.1
80°-90°	20.8	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°	1574.5	100.0
0°-180°	1574.5	100.0



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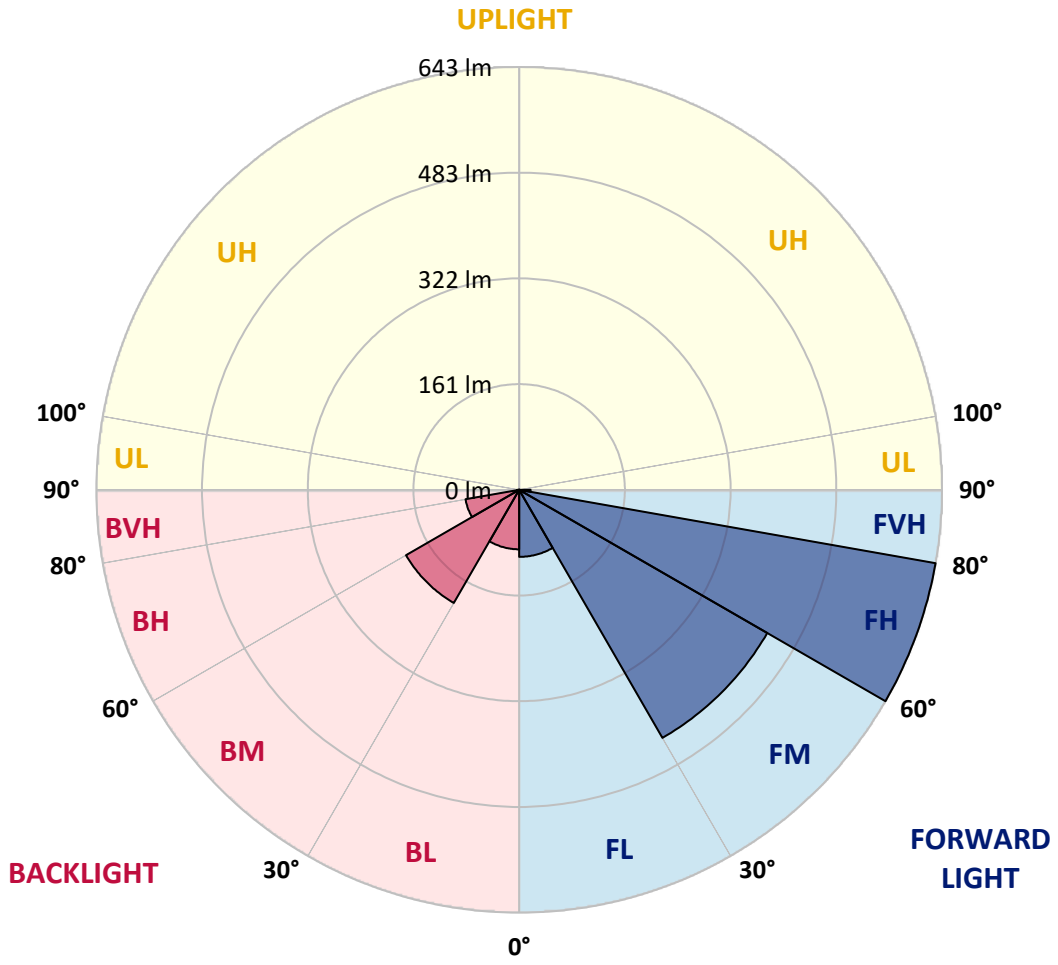
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	102.0	6.5			
FM	(30°-60°)	435.9	27.7			
FH	(60°-80°)	643.4	40.9			G0/660
FVH	(80°-90°)	17.4	1.1			G1/100
BL	(0°-30°)	90.5	5.8	B0/110		
BM	(30°-60°)	198.8	12.6	B0/220		
BH	(60°-80°)	82.9	5.3	B0/110		G0/110
BVH	(80°-90°)	3.4	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
2.5°	327.0	327.0	332.0	334.0	338.0	344.0	344.0	340.0	344.0	340.0	340.0
5°	357.0	355.0	364.0	375.0	378.0	384.0	390.0	391.0	388.0	384.0	379.0
7.5°	370.0	369.0	379.0	391.0	397.0	401.0	402.0	403.0	404.0	401.0	399.0
10°	378.0	379.0	386.0	394.0	391.0	386.0	384.0	386.0	390.0	394.0	401.0
12.5°	381.0	382.0	388.0	383.0	367.0	358.0	350.0	354.0	360.0	372.0	392.0
15°	382.0	379.0	382.0	362.0	339.0	321.0	318.0	318.0	328.0	343.0	375.0
17.5°	380.0	376.0	373.0	340.0	311.0	292.0	285.0	290.0	299.0	322.0	360.0
20°	377.0	373.0	365.0	321.0	286.0	270.0	258.0	261.0	272.0	299.0	344.0
22.5°	375.0	369.0	354.0	301.0	268.0	247.0	235.0	237.0	253.0	285.0	331.0
25°	373.0	368.0	345.0	288.0	253.0	229.0	218.0	219.0	237.0	271.0	325.0
27.5°	374.0	366.0	340.0	279.0	241.0	216.0	202.0	205.0	224.0	263.0	318.0
30°	381.0	368.0	338.0	274.0	236.0	210.0	193.0	196.0	215.0	260.0	315.0
32.5°	386.0	375.0	339.0	276.0	234.0	205.0	188.0	191.0	213.0	257.0	314.0
35°	401.0	387.0	344.0	280.0	241.0	210.0	191.0	193.0	217.0	257.0	317.0
37.5°	418.0	405.0	359.0	290.0	253.0	228.0	209.0	205.0	226.0	262.0	324.0
40°	442.0	426.0	380.0	310.0	277.0	269.0	256.0	249.0	249.0	277.0	338.0
42.5°	480.0	461.0	409.0	345.0	334.0	358.0	362.0	329.0	304.0	301.0	355.0
45°	537.0	508.0	452.0	395.0	422.0	491.0	511.0	451.0	380.0	338.0	384.0
47.5°	606.0	583.0	507.0	461.0	529.0	650.0	675.0	617.0	497.0	403.0	419.0
50°	739.0	690.0	586.0	540.0	641.0	825.0	873.0	800.0	618.0	476.0	461.0
52.5°	912.0	873.0	727.0	617.0	746.0	1008.0	1116.0	1015.0	748.0	548.0	515.0
55°	1135.0	1085.0	936.0	706.0	838.0	1158.0	1369.0	1263.0	870.0	612.0	635.0
57.5°	1453.0	1435.0	1273.0	820.0	897.0	1278.0	1586.0	1493.0	987.0	665.0	848.0
60°	1840.1	1895.1	1747.1	988.0	957.0	1397.0	1834.1	1731.1	1089.0	714.0	1080.0
62.5°	1836.1	2009.1	2335.1	1521.0	1144.0	1606.0	2078.1	1998.1	1244.0	819.0	1242.0
65°	1553.0	1703.1	2053.1	1973.1	1587.0	2065.1	2407.1	2333.1	1520.0	912.0	1084.0
67.5°	1302.0	1426.0	1793.1	1500.0	1500.0	2141.1	2498.1	2383.1	1473.0	686.0	819.0
70°	1028.0	1154.0	1481.0	1224.0	1303.0	1945.1	2024.1	2147.1	1339.0	474.0	553.0
72.5°	753.0	863.0	1180.0	998.0	1059.0	1722.1	1375.0	1823.1	1132.0	293.0	387.0
75°	508.0	573.0	844.0	801.0	857.0	1098.0	945.0	1201.0	943.0	238.0	321.0
77.5°	256.0	308.0	469.0	519.0	596.0	580.0	561.0	820.0	699.0	128.0	135.0
80°	50.0	62.0	108.0	193.0	242.0	316.0	328.0	458.0	377.0	71.0	80.0
82.5°	20.0	22.0	27.0	66.0	68.0	134.0	116.0	204.0	155.0	35.0	26.0
85°	7.0	8.0	10.0	13.0	36.0	57.0	38.0	32.0	37.0	10.0	6.0
87.5°	0.0	0.0	1.0	1.0	1.0	2.0	3.0	3.0	3.0	3.0	3.0
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°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
2.5°	334.0	331.0	326.0	318.0	311.0	301.0	296.0	286.0	281.0	274.0	271.0
5°	375.0	367.0	352.0	336.0	317.0	300.0	282.0	266.0	251.0	237.0	229.0
7.5°	394.0	388.0	372.0	348.0	324.0	300.0	274.0	250.0	226.0	206.0	196.0
10°	401.0	396.0	379.0	354.0	329.0	302.0	274.0	244.0	217.0	189.0	176.0
12.5°	395.0	393.0	382.0	357.0	331.0	310.0	286.0	258.0	224.0	188.0	169.0
15°	386.0	392.0	388.0	360.0	335.0	315.0	300.0	284.0	254.0	208.0	183.0
17.5°	378.0	392.0	392.0	365.0	339.0	314.0	306.0	308.0	307.0	250.0	212.0
20°	370.0	390.0	400.0	369.0	336.0	306.0	304.0	328.0	345.0	301.0	250.0
22.5°	365.0	392.0	406.0	371.0	324.0	283.0	290.0	325.0	354.0	332.0	279.0
25°	357.0	396.0	412.0	371.0	307.0	256.0	268.0	303.0	329.0	328.0	289.0
27.5°	355.0	399.0	426.0	370.0	281.0	232.0	251.0	273.0	295.0	295.0	267.0
30°	357.0	407.0	440.0	371.0	258.0	222.0	238.0	254.0	265.0	257.0	234.0
32.5°	360.0	420.0	473.0	377.0	239.0	216.0	229.0	235.0	239.0	228.0	209.0
35°	367.0	439.0	494.0	393.0	227.0	211.0	219.0	218.0	217.0	209.0	192.0
37.5°	378.0	465.0	522.0	396.0	229.0	204.0	205.0	200.0	194.0	189.0	178.0
40°	396.0	487.0	548.0	386.0	237.0	199.0	188.0	179.0	172.0	171.0	164.0
42.5°	420.0	525.0	575.0	351.0	234.0	195.0	171.0	160.0	152.0	152.0	150.0
45°	453.0	576.0	596.0	313.0	218.0	190.0	156.0	142.0	136.0	135.0	138.0
47.5°	485.0	624.0	628.0	269.0	192.0	177.0	141.0	128.0	122.0	126.0	129.0
50°	529.0	692.0	644.0	229.0	170.0	155.0	126.0	113.0	113.0	119.0	121.0
52.5°	604.0	822.0	670.0	197.0	160.0	130.0	108.0	104.0	108.0	116.0	117.0
55°	801.0	1046.0	710.0	181.0	151.0	109.0	96.0	99.0	106.0	115.0	116.0
57.5°	1139.0	1277.0	699.0	171.0	143.0	105.0	87.0	96.0	104.0	115.0	116.0
60°	1447.0	1456.0	597.0	162.0	141.0	110.0	81.0	91.0	101.0	112.0	113.0
62.5°	1572.0	1471.0	409.0	144.0	134.0	116.0	78.0	82.0	92.0	101.0	102.0
65°	1288.0	1118.0	233.0	119.0	119.0	117.0	77.0	71.0	83.0	90.0	89.0
67.5°	*921.0*	*729.0*	*124.0*	*92.0*	*100.0*	*109.0*	*75.0*	*62.0*	*74.0*	*79.0*	*75.0*
70°	537.0	335.0	75.0	63.0	80.0	90.0	68.0	56.0	65.0	70.0	66.0
72.5°	332.0	162.0	46.0	45.0	63.0	65.0	56.0	50.0	57.0	62.0	58.0
75°	246.0	84.0	28.0	35.0	38.0	51.0	44.0	43.0	48.0	54.0	51.0
77.5°	98.0	25.0	15.0	26.0	25.0	40.0	30.0	34.0	37.0	43.0	39.0
80°	55.0	13.0	10.0	16.0	16.0	32.0	19.0	19.0	26.0	30.0	27.0
82.5°	17.0	7.0	7.0	9.0	9.0	17.0	13.0	13.0	18.0	20.0	16.0
85°	5.0	5.0	5.0	6.0	5.0	8.0	9.0	7.0	9.0	9.0	8.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	5.0	4.0	4.0
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°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
2.5°	269.0	264.0	261.0	258.0	257.0	256.0	254.0	259.0	262.0	265.0	265.0
5°	224.0	214.0	208.0	207.0	203.0	201.0	205.0	209.0	217.0	221.0	226.0
7.5°	187.0	175.0	165.0	158.0	157.0	158.0	158.0	162.0	171.0	175.0	180.0
10°	163.0	144.0	132.0	128.0	125.0	124.0	124.0	125.0	130.0	132.0	138.0
12.5°	150.0	125.0	115.0	110.0	107.0	104.0	100.0	98.0	100.0	101.0	105.0
15°	159.0	117.0	105.0	102.0	98.0	93.0	89.0	87.0	87.0	87.0	87.0
17.5°	176.0	117.0	102.0	97.0	91.0	87.0	84.0	82.0	81.0	81.0	80.0
20°	197.0	121.0	100.0	92.0	85.0	82.0	79.0	77.0	77.0	76.0	76.0
22.5°	219.0	122.0	99.0	86.0	81.0	77.0	74.0	73.0	72.0	72.0	72.0
25°	226.0	122.0	98.0	80.0	75.0	73.0	70.0	69.0	69.0	69.0	69.0
27.5°	213.0	120.0	96.0	75.0	71.0	68.0	67.0	65.0	65.0	65.0	66.0
30°	193.0	117.0	91.0	73.0	67.0	64.0	63.0	62.0	61.0	62.0	62.0
32.5°	177.0	116.0	85.0	70.0	63.0	61.0	59.0	58.0	58.0	59.0	59.0
35°	168.0	115.0	80.0	67.0	59.0	57.0	56.0	55.0	54.0	55.0	56.0
37.5°	162.0	115.0	76.0	64.0	55.0	53.0	53.0	52.0	52.0	52.0	53.0
40°	154.0	114.0	73.0	61.0	52.0	50.0	49.0	48.0	48.0	49.0	50.0
42.5°	146.0	112.0	70.0	57.0	49.0	45.0	45.0	44.0	45.0	46.0	47.0
45°	136.0	107.0	66.0	54.0	45.0	42.0	41.0	41.0	42.0	43.0	44.0
47.5°	128.0	102.0	65.0	50.0	42.0	39.0	38.0	37.0	39.0	40.0	41.0
50°	120.0	100.0	67.0	48.0	40.0	36.0	35.0	35.0	37.0	38.0	39.0
52.5°	118.0	100.0	69.0	46.0	37.0	34.0	33.0	34.0	35.0	37.0	38.0
55°	117.0	96.0	70.0	42.0	36.0	32.0	32.0	33.0	34.0	35.0	36.0
57.5°	116.0	88.0	64.0	39.0	34.0	31.0	31.0	32.0	33.0	34.0	34.0
60°	110.0	76.0	55.0	35.0	32.0	30.0	30.0	30.0	30.0	30.0	31.0
62.5°	95.0	64.0	47.0	31.0	29.0	28.0	28.0	27.0	25.0	26.0	27.0
65°	76.0	49.0	40.0	27.0	26.0	26.0	25.0	22.0	20.0	20.0	21.0
67.5°	*58.0*	*36.0*	*32.0*	*24.0*	*23.0*	*22.0*	*22.0*	*20.0*	*17.0*	*18.0*	*19.0*
70°	45.0	30.0	25.0	21.0	19.0	19.0	20.0	18.0	15.0	16.0	17.0
72.5°	36.0	25.0	21.0	16.0	14.0	16.0	17.0	15.0	13.0	13.0	14.0
75°	29.0	19.0	16.0	12.0	11.0	13.0	13.0	12.0	11.0	11.0	12.0
77.5°	21.0	14.0	11.0	9.0	8.0	10.0	10.0	9.0	8.0	9.0	9.0
80°	14.0	9.0	7.0	7.0	6.0	7.0	6.0	6.0	6.0	7.0	7.0
82.5°	10.0	6.0	5.0	5.0	4.0	4.0	4.0	5.0	6.0	6.0	6.0
85°	5.0	4.0	4.0	3.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0
87.5°	4.0	3.0	3.0	2.0	2.0	2.0	3.0	4.0	4.0	4.0	5.0
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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Scaled Data Report

REPORT NUMBER: P1704728
CATALOG NUMBER: GSS-SB1A-AMB-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
2.5°	273.0	282.0	287.0	294.0	304.0	309.0	318.0	322.0	323.0	327.0
5°	237.0	254.0	268.0	284.0	302.0	317.0	333.0	347.0	352.0	357.0
7.5°	198.0	214.0	238.0	263.0	291.0	315.0	340.0	358.0	365.0	370.0
10°	152.0	175.0	204.0	235.0	272.0	305.0	341.0	366.0	373.0	378.0
12.5°	116.0	135.0	170.0	205.0	249.0	292.0	338.0	369.0	380.0	381.0
15°	92.0	103.0	133.0	179.0	230.0	281.0	335.0	371.0	378.0	382.0
17.5°	80.0	82.0	98.0	145.0	207.0	267.0	331.0	372.0	378.0	380.0
20°	76.0	75.0	77.0	102.0	179.0	255.0	326.0	374.0	375.0	377.0
22.5°	72.0	71.0	71.0	76.0	138.0	237.0	324.0	376.0	375.0	375.0
25°	69.0	68.0	67.0	68.0	93.0	207.0	321.0	380.0	375.0	373.0
27.5°	66.0	65.0	64.0	64.0	69.0	172.0	313.0	387.0	377.0	374.0
30°	63.0	62.0	62.0	61.0	63.0	138.0	300.0	396.0	383.0	381.0
32.5°	60.0	60.0	59.0	59.0	59.0	104.0	290.0	409.0	394.0	386.0
35°	57.0	57.0	56.0	56.0	57.0	77.0	280.0	422.0	407.0	401.0
37.5°	54.0	54.0	53.0	53.0	54.0	73.0	272.0	439.0	425.0	418.0
40°	52.0	51.0	51.0	50.0	52.0	73.0	264.0	463.0	452.0	442.0
42.5°	48.0	48.0	47.0	47.0	49.0	68.0	254.0	504.0	488.0	480.0
45°	45.0	45.0	44.0	44.0	48.0	64.0	273.0	568.0	550.0	537.0
47.5°	43.0	42.0	41.0	41.0	46.0	60.0	350.0	680.0	636.0	606.0
50°	40.0	40.0	39.0	38.0	44.0	62.0	454.0	810.0	767.0	739.0
52.5°	38.0	38.0	37.0	35.0	40.0	65.0	530.0	948.0	923.0	912.0
55°	37.0	37.0	34.0	33.0	37.0	55.0	534.0	1103.0	1152.0	1135.0
57.5°	35.0	35.0	32.0	31.0	33.0	48.0	444.0	1230.0	1453.0	1453.0
60°	32.0	32.0	30.0	28.0	31.0	44.0	282.0	1262.0	1732.1	1840.1
62.5°	29.0	30.0	28.0	26.0	26.0	38.0	138.0	1114.0	1688.1	1836.1
65°	25.0	26.0	26.0	23.0	24.0	34.0	62.0	805.0	1386.0	1553.0
67.5°	*22.0*	*23.0*	*22.0*	*20.0*	*23.0*	*25.0*	*32.0*	*550.0*	*1159.0*	*1302.0*
70°	20.0	21.0	19.0	17.0	21.0	18.0	24.0	312.0	893.0	1028.0
72.5°	17.0	18.0	16.0	13.0	19.0	14.0	18.0	119.0	650.0	753.0
75°	14.0	15.0	13.0	11.0	13.0	11.0	14.0	43.0	413.0	508.0
77.5°	10.0	12.0	11.0	9.0	10.0	8.0	10.0	21.0	219.0	256.0
80°	8.0	8.0	8.0	7.0	6.0	6.0	7.0	13.0	35.0	50.0
82.5°	7.0	6.0	6.0	5.0	5.0	4.0	4.0	6.0	18.0	20.0
85°	6.0	5.0	5.0	4.0	3.0	2.0	2.0	2.0	6.0	7.0
87.5°	5.0	4.0	3.0	2.0	1.0	1.0	0.0	1.0	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

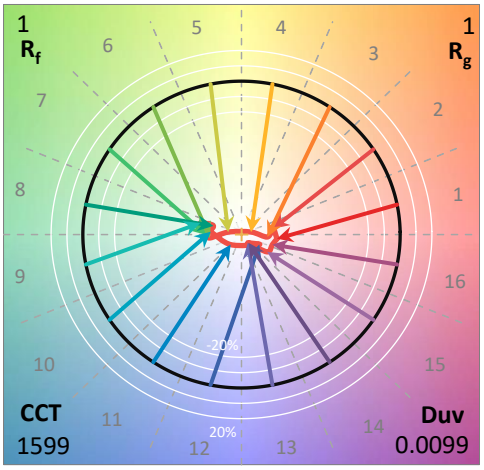
Test Information

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

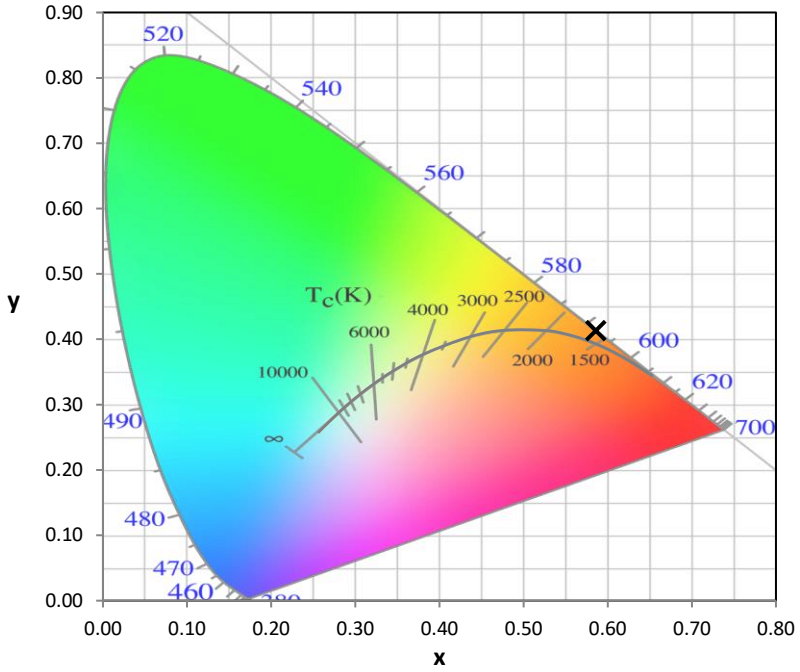
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

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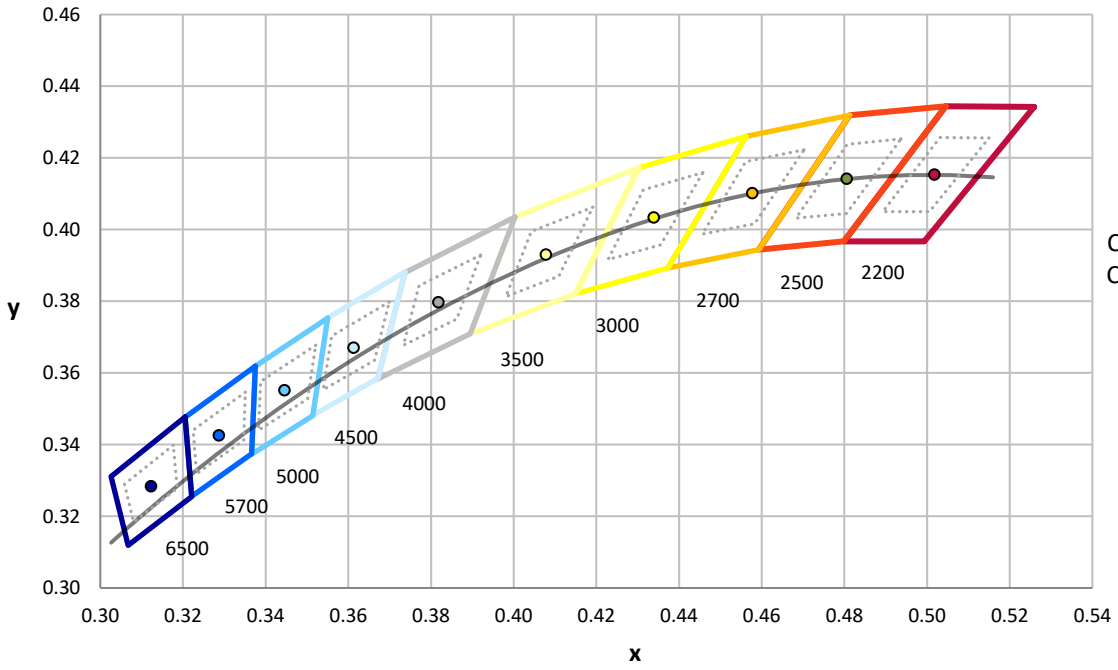
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

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CIE 1931 Chromaticity Diagram



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

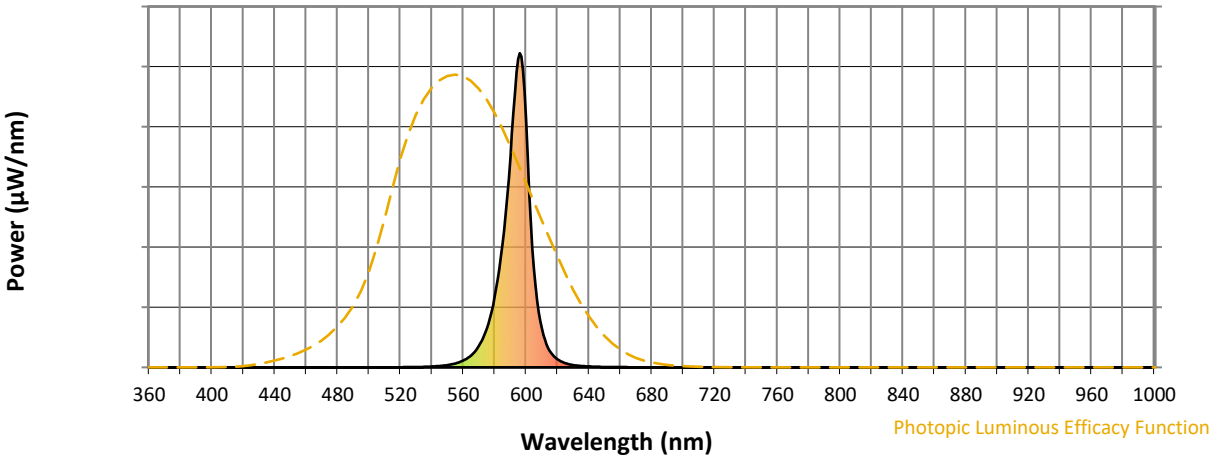


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

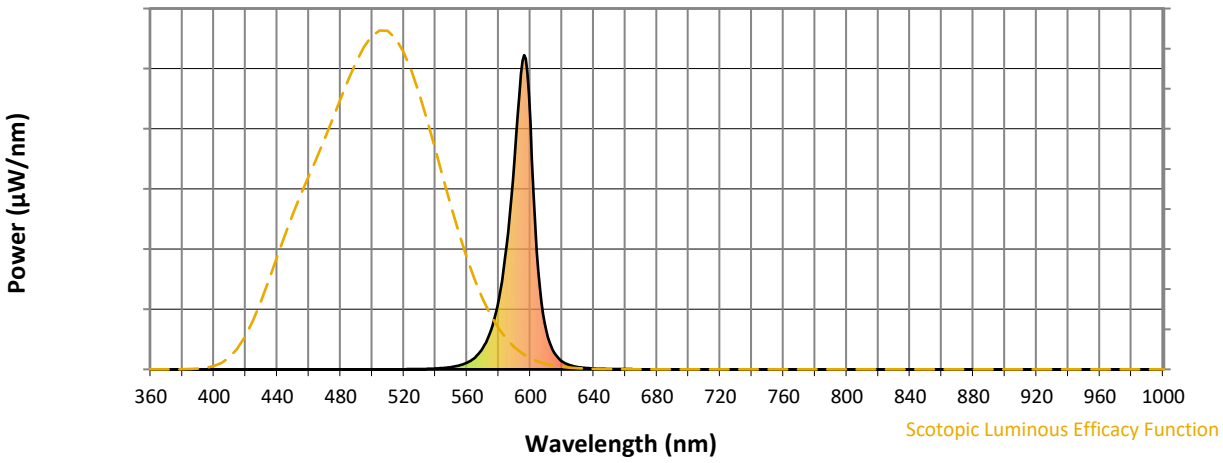


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

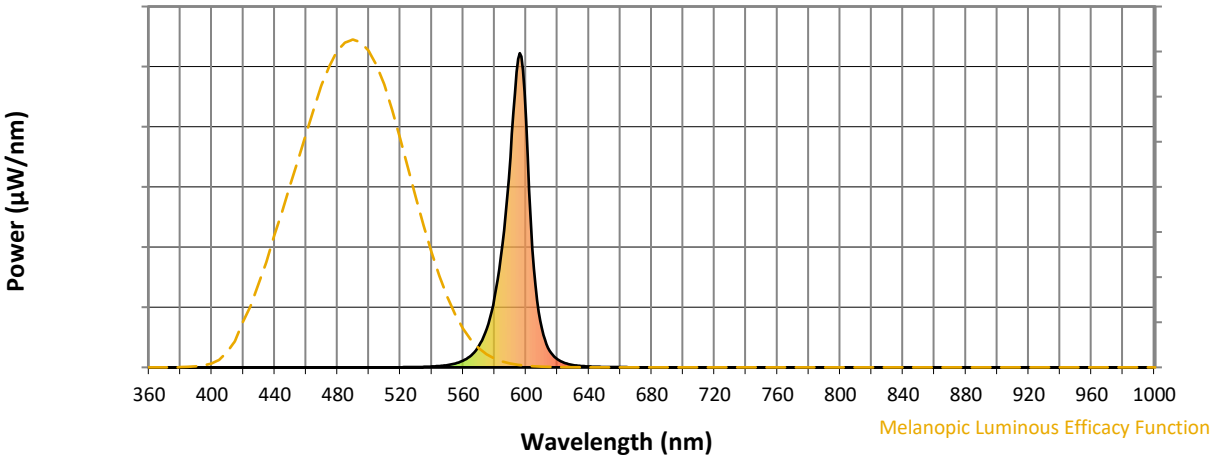


Scotopic Lumens: NR **S/P: 0.23**

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			

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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			

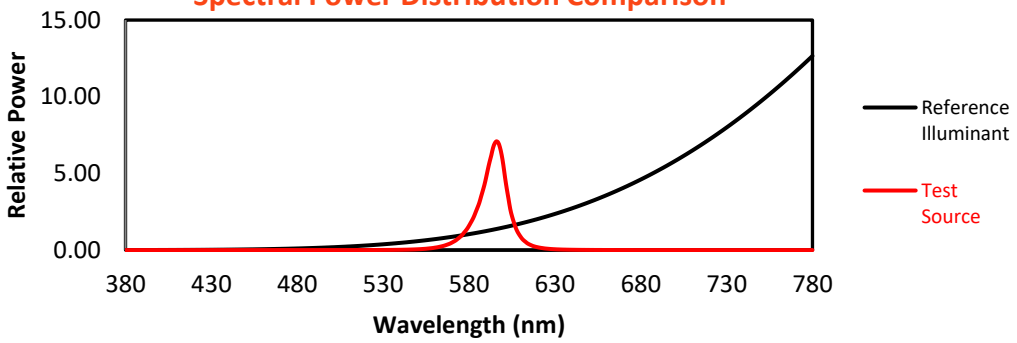
REPORT NUMBER: SP3-2509-541-1

TM-30-18

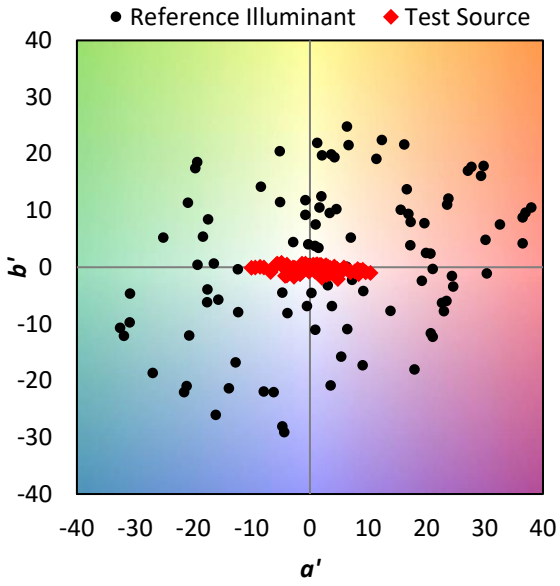
Summary

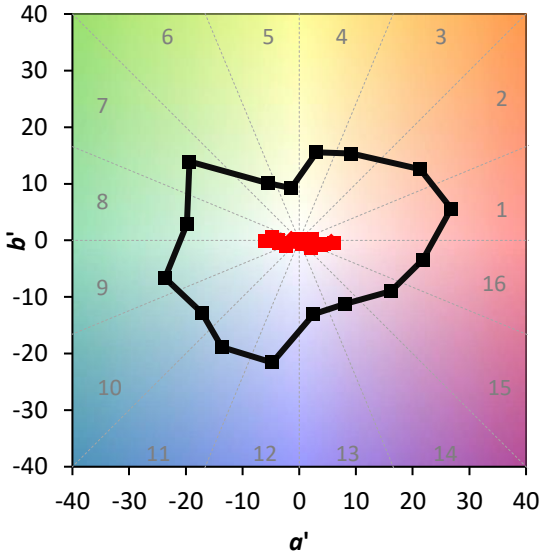
R_f = 1.2
R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

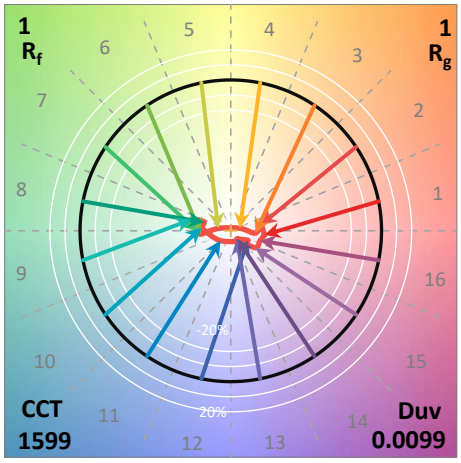
Spectral Power Distribution Comparison

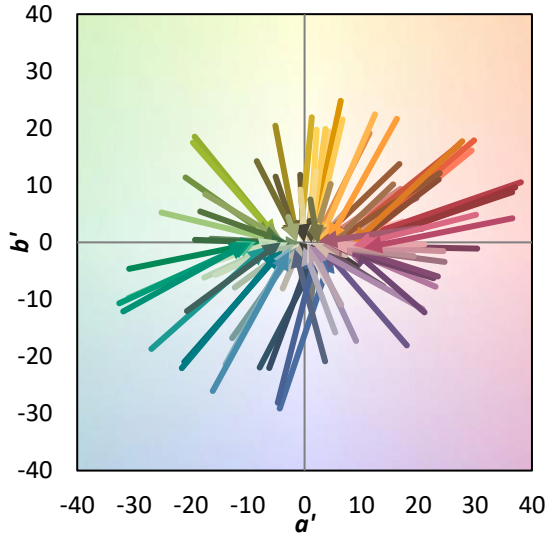


Color Vector Graphics







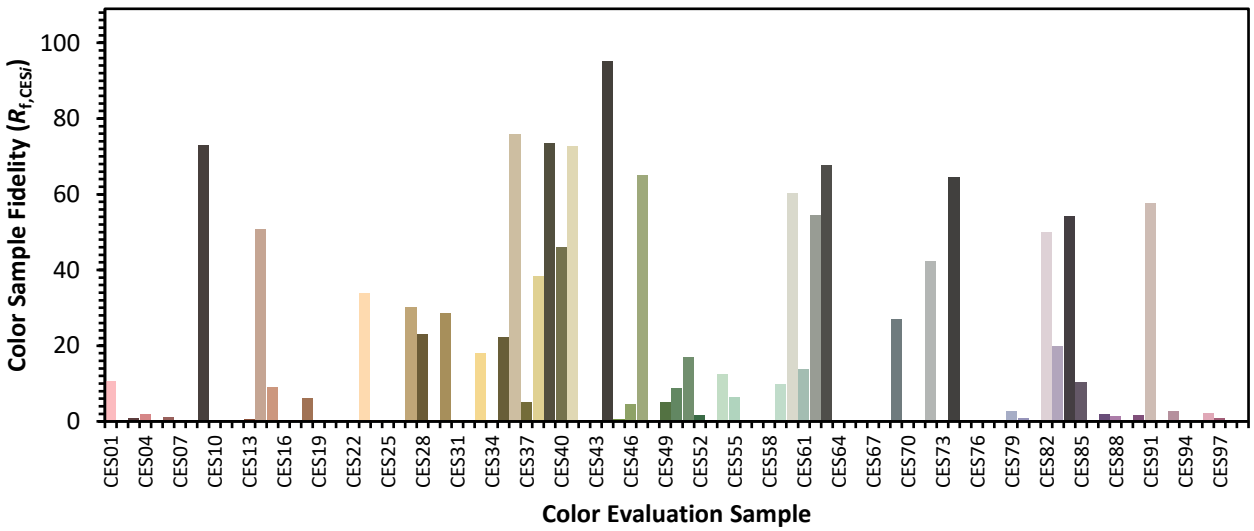


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

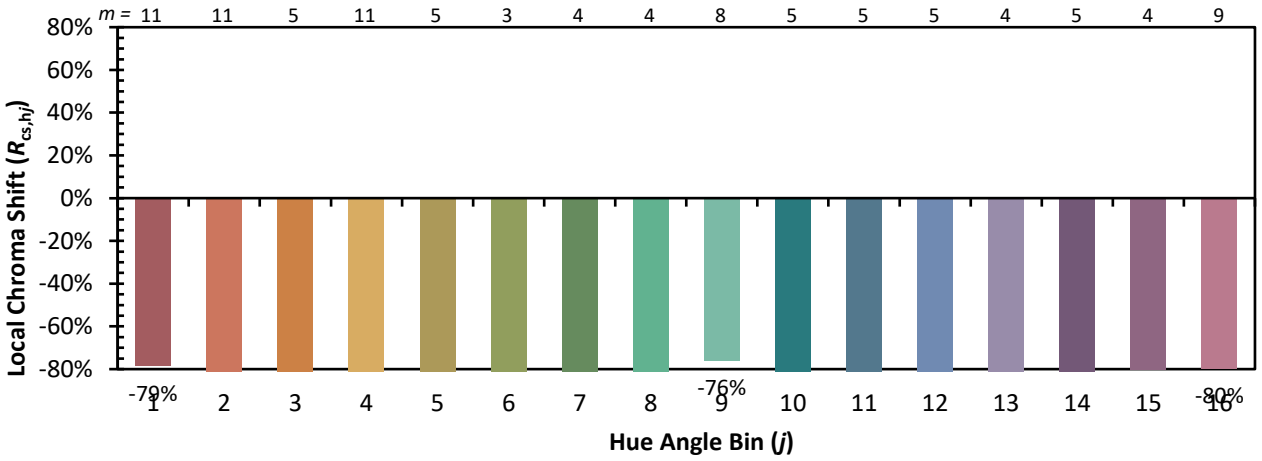
CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 =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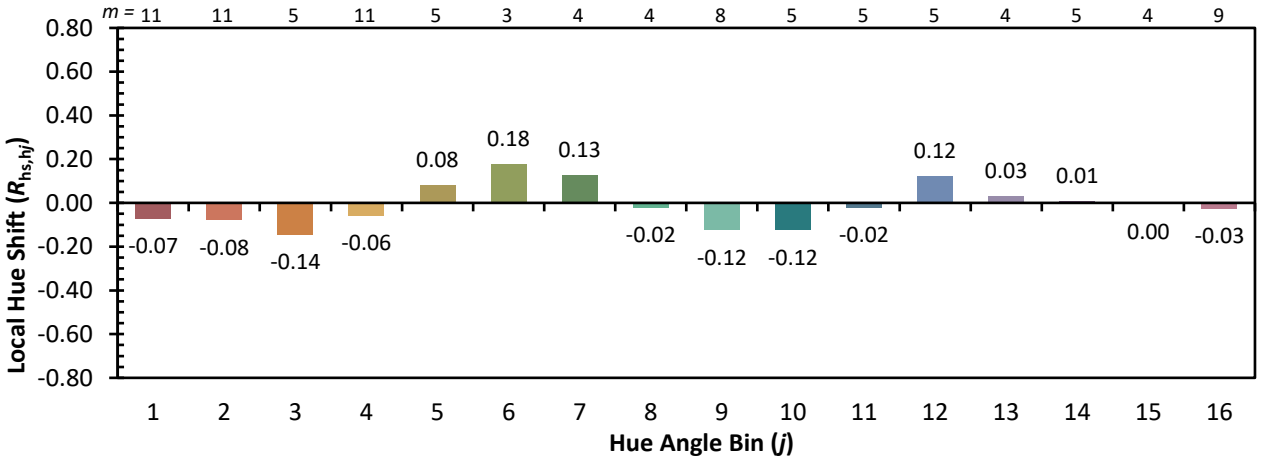


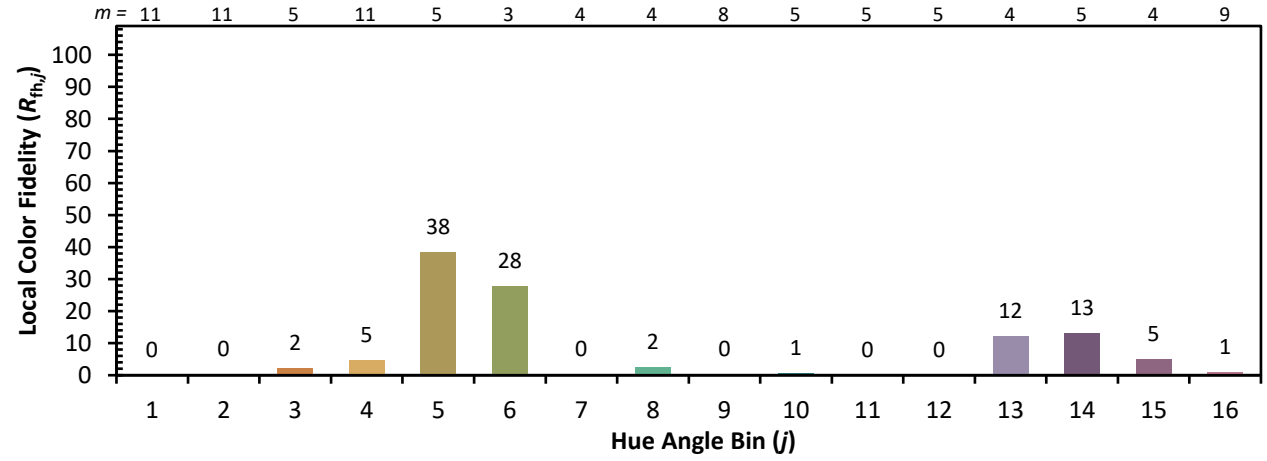
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Color Rendition by Hue-Angle Bin



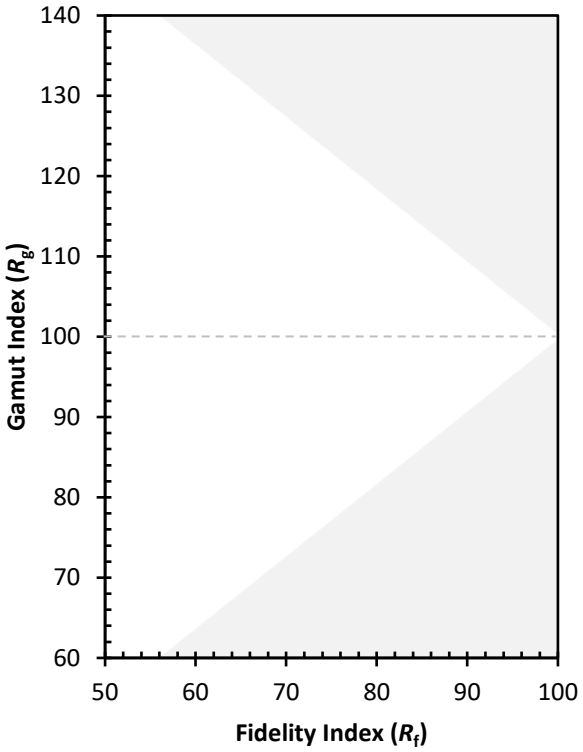


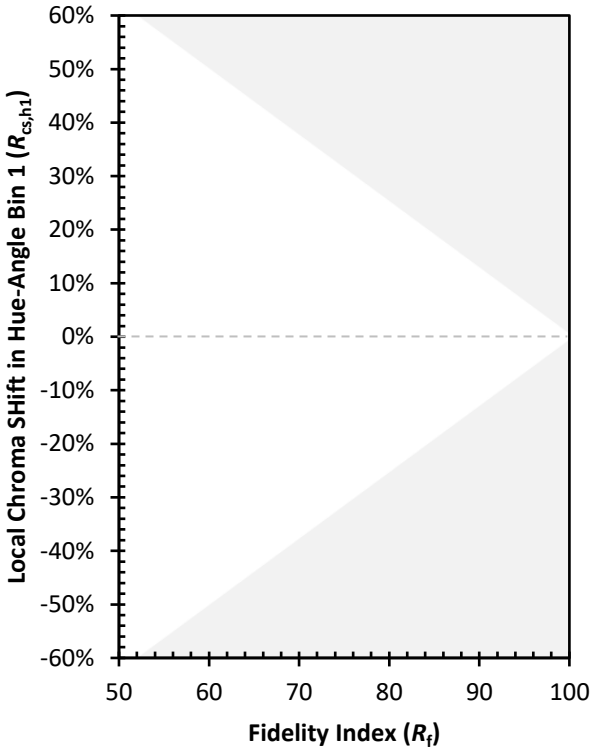


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Measure Comparisons





(END OF REPORT)