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: P1704730

Luminaire Tested: GSS-SB3A-AMB-U-SLL

Issue Date: 10/28/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1704730
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	10/28/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-AMB-U-SLL
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 3SQUARE 101W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION
Light Source:	(78) 1590K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6226.5 lumens
Efficiency:	N/A
Efficacy:	61.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	101
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

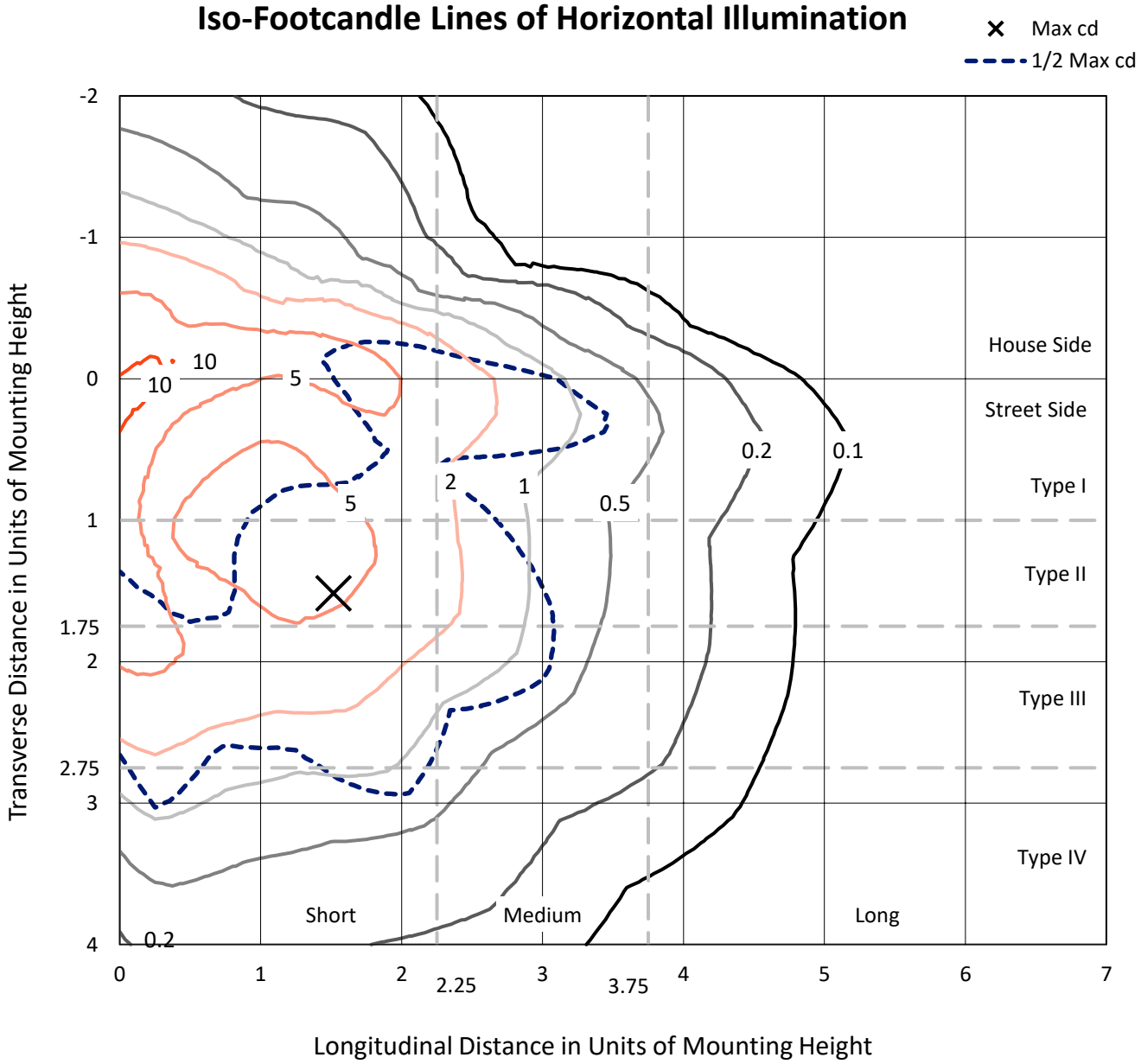


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Iso-Footcandle Lines of Horizontal Illumination



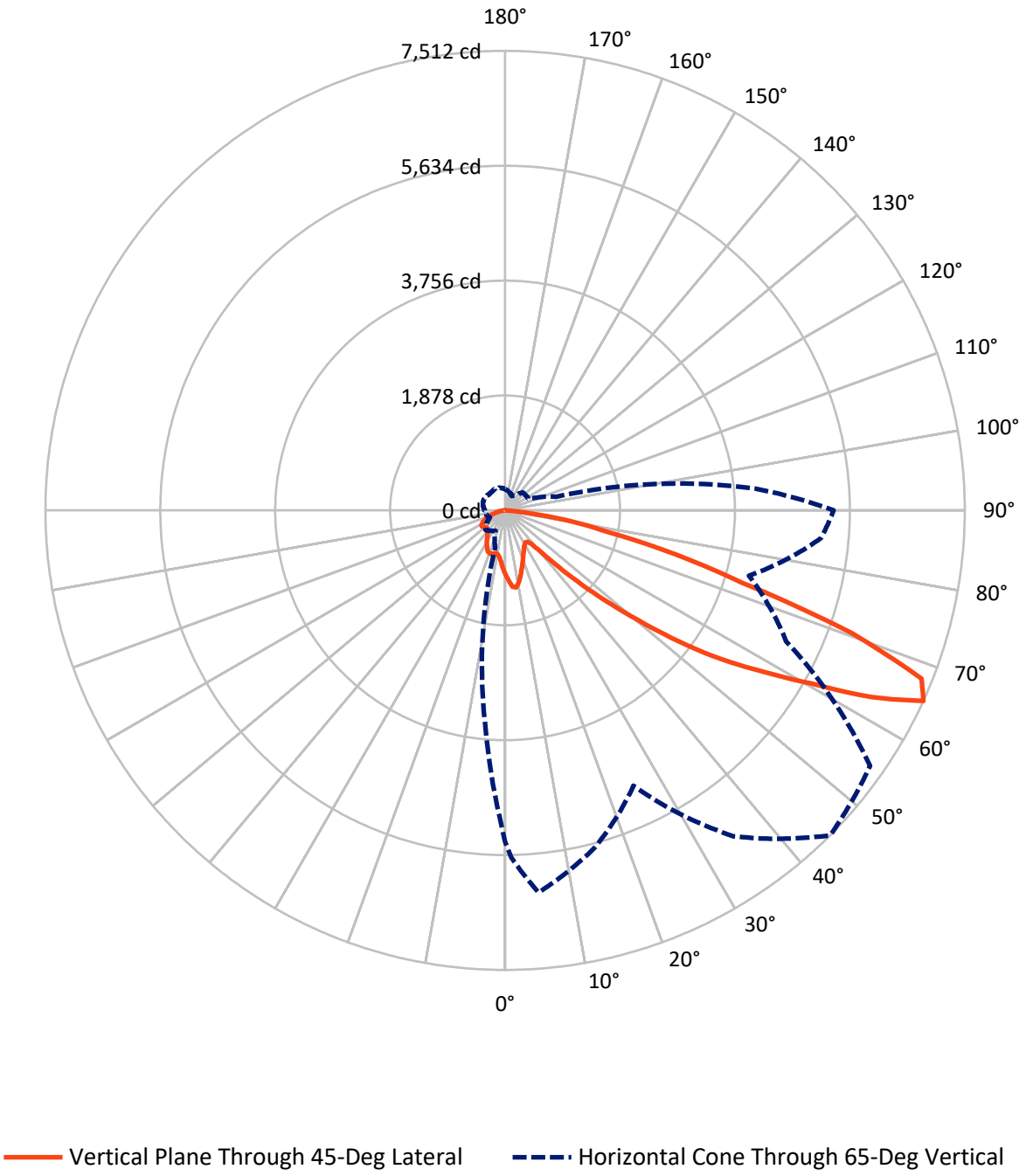
Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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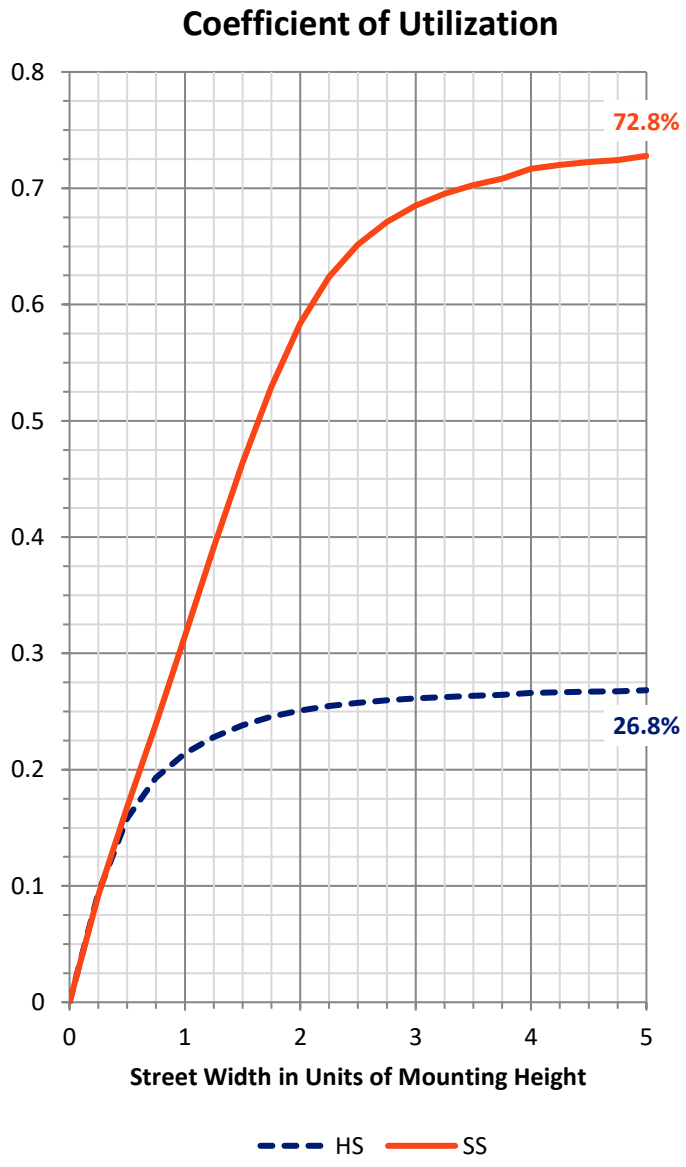
REPORT NUMBER: P1704730
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.1	0.0	1686.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	4540.4	0.0	4540.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	6226.5	0.0	6226.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.6
10°-20°	283.5	4.6
20°-30°	430.4	6.9
30°-40°	523.1	8.4
40°-50°	730.7	11.7
50°-60°	1291.1	20.7
60°-70°	1809.6	29.1
70°-80°	954.3	15.3
80°-90°	105.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6226.5	100.0
0°-180°	6226.5	100.0



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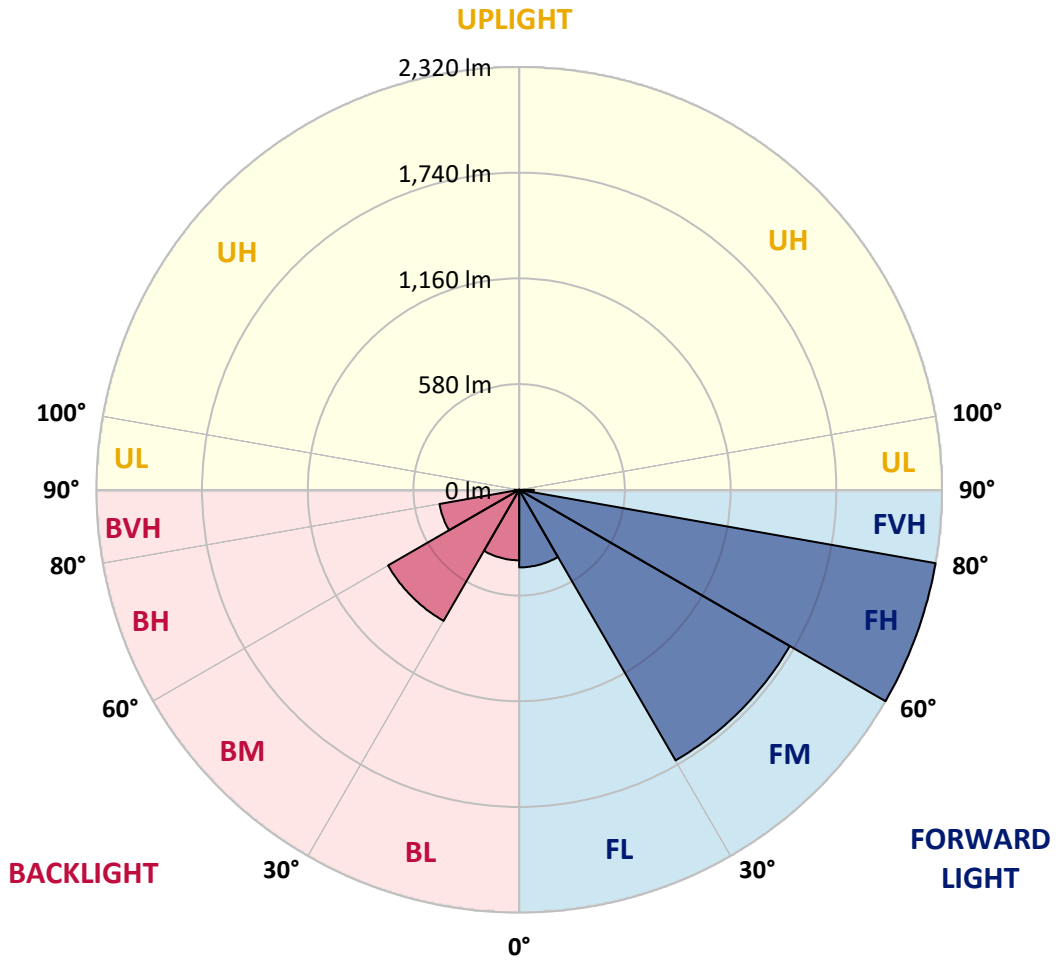
Scaled Data Report

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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°)	425.7	6.8			
FM	(30°-60°)	1714.3	27.5			
FH	(60°-80°)	2319.8	37.3			G2/5000
FVH	(80°-90°)	80.6	1.3			G1/100
BL	(0°-30°)	386.5	6.2	B1/500		
BM	(30°-60°)	830.6	13.3	B1/1000		
BH	(60°-80°)	444.1	7.1	B1/500		G1/500
BVH	(80°-90°)	24.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	*1049.7*	1049.7	1049.7	1049.7	1049.7
2.5°	1112.5	1124.4	1127.4	1130.4	1130.4	1145.4	*1148.4*	1145.4	1142.4	1139.4	1136.4
5°	1181.3	1184.3	1190.2	1220.1	1232.1	1247.1	*1253.0*	1262.0	1253.0	1241.1	1220.1
7.5°	1217.2	1229.1	1244.1	1259.0	1259.0	1271.0	*1271.0*	1274.0	1277.0	1277.0	1271.0
10°	1238.1	1241.1	1256.0	1250.0	1238.1	1220.1	*1208.2*	1208.2	1226.1	1241.1	1265.0
12.5°	1244.1	1244.1	1247.1	1223.1	1166.3	1136.4	*1106.5*	1112.5	1133.4	1169.3	1223.1
15°	1235.1	1232.1	1226.1	1154.4	1079.6	1025.8	*1007.8*	1013.8	1031.7	1085.6	1175.3
17.5°	1229.1	1220.1	1187.2	1085.6	998.8	936.0	*918.1*	915.1	948.0	1019.8	1121.5
20°	1220.1	1205.2	1148.4	1019.8	921.1	864.3	*837.4*	840.3	873.2	951.0	1076.6
22.5°	1208.2	1187.2	1121.5	963.0	855.3	795.5	*768.6*	768.6	816.4	906.1	1043.7
25°	1211.2	1184.3	1100.5	921.1	816.4	744.6	*711.8*	711.8	765.6	864.3	1016.8
27.5°	1205.2	1184.3	1091.6	906.1	780.5	711.8	*666.9*	672.9	723.7	837.4	995.9
30°	1220.1	1190.2	1082.6	885.2	765.6	684.8	*637.0*	646.0	699.8	819.4	980.9
32.5°	1250.0	1220.1	1088.6	885.2	762.6	675.9	*619.0*	634.0	693.8	813.4	980.9
35°	1294.9	1250.0	1100.5	906.1	774.6	687.8	*634.0*	640.0	705.8	816.4	989.9
37.5°	1366.7	1309.9	1148.4	936.0	816.4	741.7	*690.8*	684.8	741.7	831.4	1007.8
40°	1450.4	1393.6	1211.2	1001.8	909.1	894.2	*855.3*	810.4	825.4	888.2	1055.7
42.5°	1573.0	1498.3	1306.9	1115.5	1085.6	1154.4	*1193.2*	1085.6	989.9	971.9	1121.5
45°	1734.5	1665.7	1459.4	1282.9	1378.6	1582.0	*1650.8*	1495.3	1274.0	1118.5	1226.1
47.5°	2024.6	1902.0	1677.7	1516.2	1716.6	2087.4	*2195.1*	2003.7	1632.8	1309.9	1348.7
50°	2452.2	2335.6	1925.9	1773.4	2084.4	2634.7	*2814.1*	2583.8	2024.6	1576.0	1522.2
52.5°	3205.9	3020.5	2365.5	2012.6	2440.3	3220.8	*3570.7*	3193.9	2449.3	1827.2	1779.4
55°	4222.7	4031.3	3256.7	2275.8	2754.3	3738.2	*4300.4*	3995.4	2850.0	2036.6	2308.7
57.5°	5568.4	5371.0	4342.3	2640.7	2981.6	4156.9	*4970.3*	4641.3	3208.9	2278.8	3143.1
60°	6522.4	6615.1	5876.4	3184.9	3298.6	4605.4	*5744.8*	5397.9	3591.6	2562.9	4441.0
62.5°	6238.3	6525.4	7285.0	4749.0	4061.2	5478.7	*6725.7*	6399.8	4306.4	3558.8	5661.1
65°	*5412.9*	*5670.1*	*6271.2*	*5697.0*	*4967.3*	*6501.5*	*7512.3*	*7282.0*	*5069.0*	*4124.0*	*5185.6*
67.5°	4518.7	4763.9	5430.8	4420.0	4635.4	6408.7	*7338.8*	7138.4	4769.9	3481.0	4994.2
70°	3457.1	3723.2	4438.0	3555.8	4001.4	5732.9	*6011.0*	6408.7	4375.2	3187.9	4692.2
72.5°	2398.4	2739.3	3507.9	2888.9	3101.2	5033.1	*4046.2*	5412.9	3795.0	2870.9	4267.5
75°	1513.2	1764.4	2413.4	2225.0	2488.1	3304.6	*2882.9*	3591.6	3146.1	2470.2	3531.8
77.5°	729.7	834.4	1312.9	1438.5	1731.5	2114.3	*1737.5*	2503.1	2195.1	1549.1	2138.2
80°	200.4	230.3	337.9	565.2	813.4	1306.9	*1106.5*	1327.8	1190.2	882.2	1136.4
82.5°	77.8	86.7	98.7	224.3	382.8	702.8	*418.7*	622.0	568.2	293.1	379.8
85°	29.9	32.9	38.9	50.8	203.4	263.2	*149.5*	191.4	260.2	86.7	89.7
87.5°	3.0	3.0	6.0	6.0	6.0	9.0	*17.9*	17.9	12.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7
2.5°	1130.4	1124.4	1103.5	1091.6	1070.6	1046.7	1031.7	1004.8	998.8	977.9	986.9
5°	1214.2	1193.2	1160.3	1118.5	1076.6	1028.7	989.9	948.0	912.1	879.2	876.2
7.5°	1256.0	1244.1	1202.2	1148.4	1082.6	1010.8	963.0	894.2	852.3	816.4	807.4
10°	1265.0	1256.0	1217.2	1163.3	1100.5	1025.8	957.0	879.2	816.4	774.6	759.6
12.5°	1232.1	1250.0	1223.1	1172.3	1103.5	1046.7	983.9	918.1	837.4	771.6	747.6
15°	1205.2	1232.1	1232.1	1172.3	1109.5	1055.7	1016.8	974.9	918.1	828.4	789.5
17.5°	1181.3	1226.1	1253.0	1187.2	1115.5	1049.7	1025.8	1043.7	1037.7	939.0	870.2
20°	1160.3	1226.1	1262.0	1196.2	1097.5	1013.8	998.8	1076.6	1148.4	1064.6	965.9
22.5°	1133.4	1220.1	1285.9	1193.2	1064.6	945.0	954.0	1064.6	1157.3	1127.4	1037.7
25°	1118.5	1223.1	1306.9	1202.2	1004.8	852.3	888.2	1004.8	1091.6	1100.5	1019.8
27.5°	1103.5	1238.1	1351.7	1202.2	942.0	789.5	840.3	915.1	992.9	1007.8	945.0
30°	1112.5	1253.0	1402.6	1211.2	879.2	750.6	795.5	849.3	891.2	885.2	837.4
32.5°	1118.5	1300.9	1495.3	1235.1	813.4	729.7	762.6	798.5	804.5	792.5	744.6
35°	1136.4	1357.7	1567.0	1274.0	777.5	705.8	729.7	735.7	738.7	720.7	687.8
37.5°	1166.3	1414.5	1641.8	1262.0	780.5	693.8	684.8	675.9	663.9	663.9	634.0
40°	1223.1	1504.2	1719.6	1217.2	774.6	675.9	631.0	613.1	598.1	601.1	586.1
42.5°	1309.9	1629.8	1815.3	1127.4	750.6	657.9	583.2	550.3	535.3	544.3	553.3
45°	1417.5	1773.4	1922.9	1028.7	693.8	628.0	532.3	502.4	487.5	496.4	514.4
47.5°	1546.1	1964.8	2006.7	897.2	634.0	574.2	484.5	451.6	439.6	463.5	487.5
50°	1755.5	2275.8	2111.3	789.5	580.2	514.4	433.6	406.7	412.7	442.6	466.5
52.5°	2204.0	2894.9	2296.7	693.8	553.3	442.6	379.8	373.8	394.8	430.6	451.6
55°	2963.6	3678.4	2410.4	648.9	523.3	400.7	337.9	358.9	379.8	421.7	445.6
57.5°	4150.9	4432.0	2233.9	610.1	508.4	394.8	314.0	346.9	373.8	415.7	436.6
60°	5433.8	4784.9	1878.1	559.2	499.4	412.7	299.1	323.0	361.9	400.7	424.7
62.5°	5664.1	4614.4	1363.7	499.4	466.5	421.7	296.1	299.1	329.0	370.8	391.8
65°	*5368.0*	*4094.1*	*858.3*	*427.6*	*418.7*	*412.7*	*302.0*	*260.2*	*299.1*	*332.0*	*346.9*
67.5°	4946.4	3280.6	502.4	337.9	370.8	382.8	296.1	236.3	269.1	293.1	305.0
70°	4417.0	2524.0	343.9	251.2	299.1	334.9	272.1	212.3	239.2	263.2	269.1
72.5°	3594.6	1713.6	239.2	197.4	242.2	251.2	236.3	197.4	212.3	233.3	239.2
75°	2625.7	1028.7	155.5	155.5	164.5	200.4	194.4	173.5	182.4	203.4	209.3
77.5°	1432.5	433.6	101.7	113.6	107.7	164.5	155.5	140.6	140.6	161.5	167.5
80°	732.7	218.3	71.8	68.8	71.8	122.6	116.6	92.7	101.7	113.6	119.6
82.5°	251.2	95.7	47.8	41.9	47.8	62.8	74.8	65.8	71.8	71.8	68.8
85°	74.8	41.9	26.9	23.9	23.9	26.9	47.8	35.9	35.9	26.9	29.9
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	15.0
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°	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7
2.5°	968.9	963.0	960.0	948.0	948.0	957.0	951.0	960.0	977.9	983.9	986.9
5°	867.3	861.3	846.3	843.3	840.3	843.3	855.3	864.3	888.2	903.1	909.1
7.5°	795.5	780.5	765.6	768.6	768.6	771.6	780.5	798.5	822.4	840.3	858.3
10°	741.7	726.7	723.7	720.7	726.7	735.7	750.6	762.6	798.5	822.4	843.3
12.5°	732.7	714.7	711.8	708.8	720.7	726.7	744.6	765.6	813.4	840.3	864.3
15°	756.6	726.7	723.7	726.7	726.7	747.6	765.6	804.5	867.3	909.1	963.0
17.5°	816.4	750.6	741.7	738.7	747.6	768.6	789.5	846.3	951.0	1031.7	1094.5
20°	873.2	774.6	747.6	741.7	744.6	768.6	801.5	879.2	1043.7	1133.4	1169.3
22.5°	912.1	777.5	741.7	732.7	735.7	753.6	786.5	888.2	1064.6	1124.4	1154.4
25°	906.1	756.6	711.8	696.8	699.8	717.7	753.6	855.3	983.9	1046.7	1058.7
27.5°	822.4	714.7	669.9	654.9	651.9	675.9	702.8	768.6	885.2	948.0	960.0
30°	744.6	640.0	619.0	601.1	604.1	622.0	634.0	687.8	810.4	858.3	858.3
32.5°	666.9	589.1	568.2	556.2	556.2	568.2	580.2	634.0	732.7	771.6	786.5
35°	628.0	562.2	538.3	514.4	511.4	529.3	559.2	607.1	681.8	711.8	708.8
37.5°	601.1	550.3	511.4	484.5	475.5	502.4	547.3	586.1	634.0	643.0	646.0
40°	577.2	538.3	499.4	463.5	457.6	487.5	532.3	571.2	592.1	589.1	583.2
42.5°	550.3	532.3	484.5	448.6	442.6	469.5	514.4	544.3	538.3	535.3	523.3
45°	523.3	508.4	460.5	427.6	421.7	445.6	484.5	514.4	508.4	487.5	469.5
47.5°	496.4	487.5	451.6	415.7	409.7	439.6	472.5	499.4	484.5	466.5	448.6
50°	478.5	481.5	454.6	430.6	421.7	448.6	478.5	493.4	469.5	448.6	430.6
52.5°	469.5	487.5	466.5	442.6	439.6	460.5	481.5	487.5	454.6	433.6	415.7
55°	469.5	490.4	475.5	451.6	454.6	463.5	475.5	481.5	442.6	418.7	400.7
57.5°	463.5	487.5	466.5	457.6	457.6	457.6	472.5	469.5	430.6	406.7	388.8
60°	448.6	466.5	454.6	442.6	439.6	448.6	460.5	448.6	409.7	385.8	367.8
62.5°	409.7	433.6	430.6	418.7	409.7	421.7	433.6	418.7	379.8	358.9	349.9
65°	*361.9*	*382.8*	*388.8*	*373.8*	*370.8*	*391.8*	*388.8*	*376.8*	*346.9*	*332.0*	*323.0*
67.5°	314.0	334.9	334.9	332.0	334.9	337.9	346.9	334.9	311.0	302.0	296.1
70°	281.1	296.1	293.1	281.1	281.1	299.1	308.0	308.0	290.1	278.1	275.1
72.5°	245.2	257.2	251.2	242.2	224.3	260.2	275.1	278.1	260.2	251.2	245.2
75°	215.3	224.3	218.3	185.4	185.4	209.3	242.2	239.2	221.3	212.3	209.3
77.5°	176.4	182.4	176.4	149.5	146.5	167.5	194.4	194.4	188.4	176.4	173.5
80°	122.6	134.6	122.6	107.7	104.7	122.6	146.5	149.5	137.6	131.6	128.6
82.5°	74.8	86.7	80.7	65.8	65.8	83.7	92.7	95.7	77.8	68.8	71.8
85°	29.9	35.9	38.9	35.9	26.9	32.9	41.9	35.9	32.9	32.9	32.9
87.5°	15.0	12.0	12.0	9.0	9.0	9.0	9.0	12.0	15.0	15.0	17.9
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: P1704730
CATALOG NUMBER: GSS-SB3A-AMB-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7
2.5°	998.8	1007.8	1025.8	1043.7	1067.6	1073.6	1094.5	1103.5	1109.5	1112.5
5°	942.0	968.9	1001.8	1034.7	1070.6	1103.5	1136.4	1166.3	1175.3	1181.3
7.5°	906.1	945.0	983.9	1031.7	1070.6	1103.5	1166.3	1199.2	1214.2	1217.2
10°	900.2	954.0	1001.8	1040.7	1076.6	1115.5	1169.3	1220.1	1232.1	1238.1
12.5°	936.0	995.9	1025.8	1055.7	1088.6	1112.5	1178.3	1232.1	1244.1	1244.1
15°	1022.8	1031.7	1037.7	1049.7	1082.6	1124.4	1187.2	1229.1	1238.1	1235.1
17.5°	1130.4	1055.7	998.8	1016.8	1076.6	1124.4	1196.2	1235.1	1229.1	1229.1
20°	1142.4	1031.7	942.0	951.0	1037.7	1124.4	1208.2	1238.1	1226.1	1220.1
22.5°	1088.6	989.9	891.2	870.2	989.9	1133.4	1232.1	1253.0	1217.2	1208.2
25°	1013.8	933.1	858.3	807.4	939.0	1133.4	1268.0	1274.0	1226.1	1211.2
27.5°	933.1	885.2	822.4	768.6	885.2	1154.4	1333.8	1306.9	1232.1	1205.2
30°	852.3	825.4	789.5	741.7	843.3	1193.2	1411.5	1366.7	1256.0	1220.1
32.5°	783.5	777.5	750.6	723.7	816.4	1238.1	1501.3	1432.5	1288.9	1250.0
35°	708.8	714.7	705.8	711.8	807.4	1262.0	1594.0	1525.2	1354.7	1294.9
37.5°	648.9	657.9	660.9	711.8	798.5	1250.0	1668.7	1623.9	1414.5	1366.7
40°	592.1	604.1	628.0	711.8	768.6	1184.3	1770.4	1740.5	1516.2	1450.4
42.5°	532.3	550.3	589.1	696.8	720.7	1097.5	1878.1	1908.0	1644.8	1573.0
45°	481.5	499.4	547.3	628.0	666.9	1001.8	1982.7	2132.3	1827.2	1734.5
47.5°	430.6	448.6	499.4	562.2	613.1	900.2	2141.2	2464.2	2102.4	2024.6
50°	406.7	400.7	433.6	499.4	598.1	825.4	2410.4	2942.7	2574.9	2452.2
52.5°	391.8	379.8	376.8	445.6	586.1	780.5	2679.5	3780.1	3304.6	3205.9
55°	379.8	364.8	349.9	439.6	568.2	717.7	2757.3	4704.1	4464.9	4222.7
57.5°	370.8	352.9	334.9	463.5	565.2	637.0	2482.2	5287.3	5628.2	5568.4
60°	346.9	334.9	332.0	472.5	541.3	553.3	1905.0	5251.4	6438.7	6522.4
62.5°	329.0	305.0	346.9	475.5	481.5	460.5	1223.1	4572.5	5972.1	6238.3
65°	*308.0*	*275.1*	*364.8*	*451.6*	*406.7*	*367.8*	*625.0*	*3609.6*	*5018.1*	*5412.9*
67.5°	281.1	251.2	367.8	391.8	337.9	269.1	397.7	2763.3	4252.6	4518.7
70°	260.2	239.2	317.0	326.0	263.2	209.3	245.2	1773.4	3155.0	3457.1
72.5°	233.3	224.3	278.1	239.2	200.4	161.5	158.5	918.1	2174.1	2398.4
75°	194.4	200.4	239.2	200.4	134.6	125.6	113.6	442.6	1253.0	1513.2
77.5°	161.5	155.5	194.4	155.5	101.7	86.7	83.7	182.4	622.0	729.7
80°	119.6	113.6	143.5	107.7	65.8	53.8	56.8	98.7	149.5	200.4
82.5°	80.7	77.8	98.7	53.8	38.9	32.9	35.9	53.8	74.8	77.8
85°	35.9	38.9	44.9	26.9	17.9	15.0	15.0	20.9	26.9	29.9
87.5°	17.9	15.0	12.0	9.0	6.0	6.0	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

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

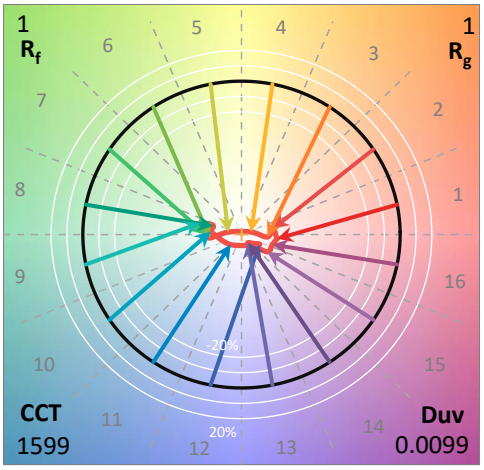
Test Information

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

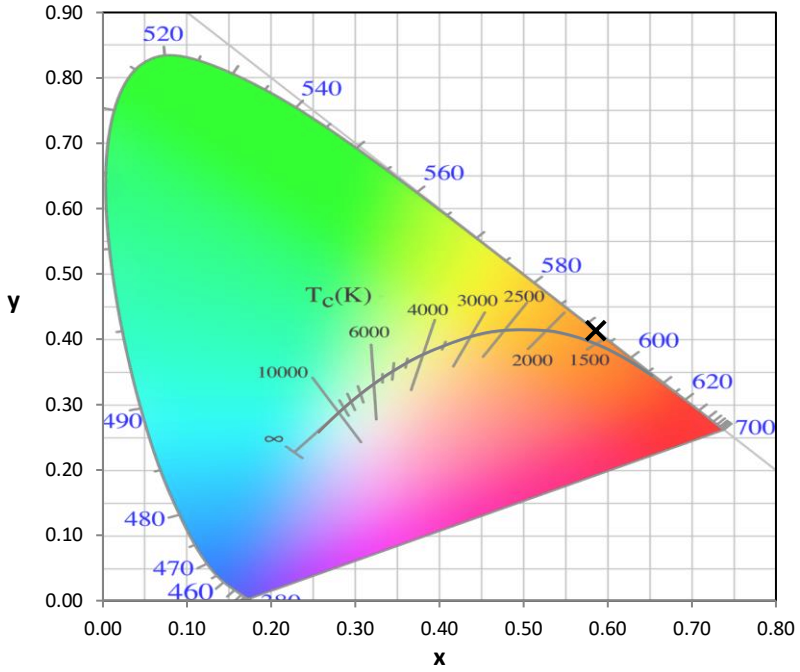
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

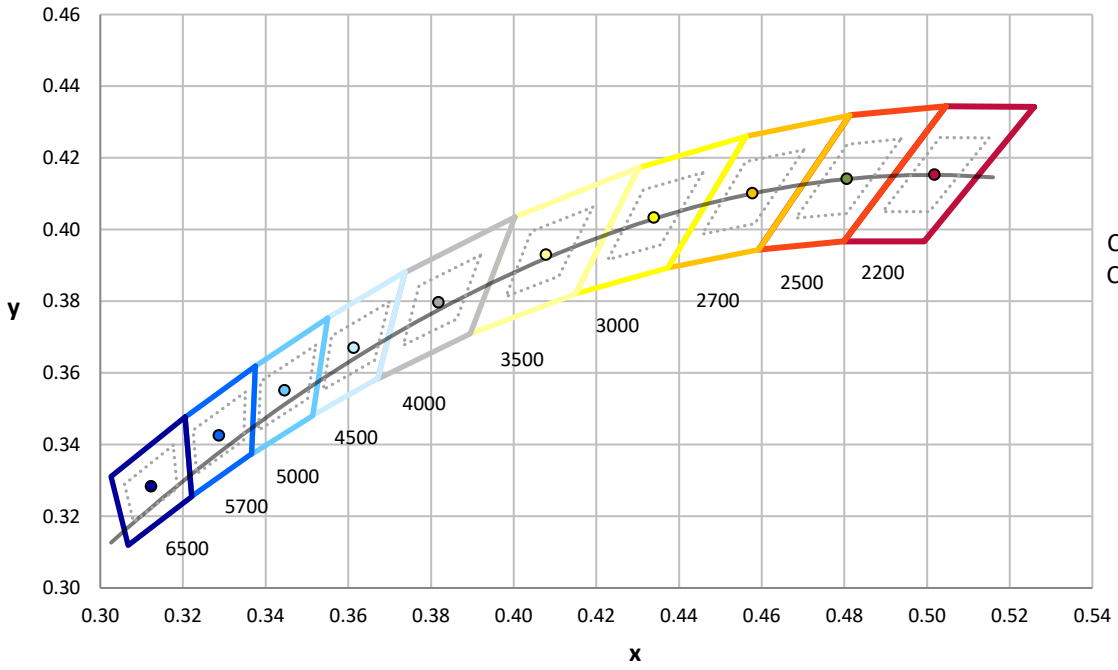
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

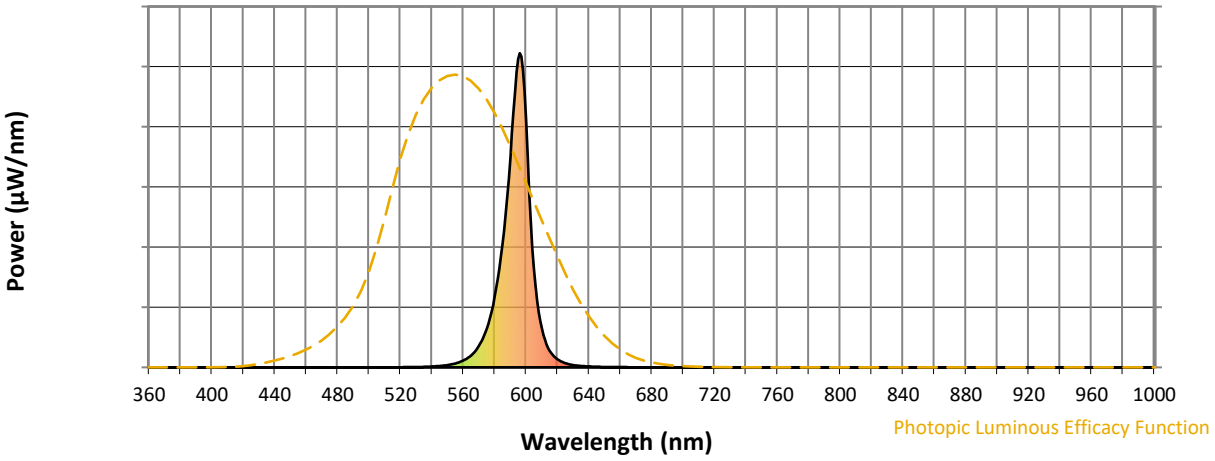


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

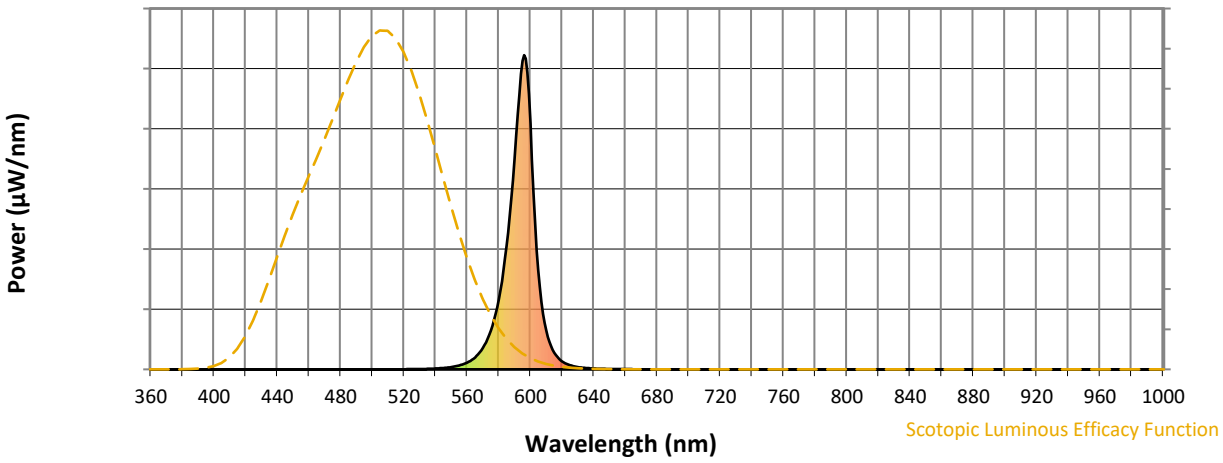


Photopic Lumens: NR

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

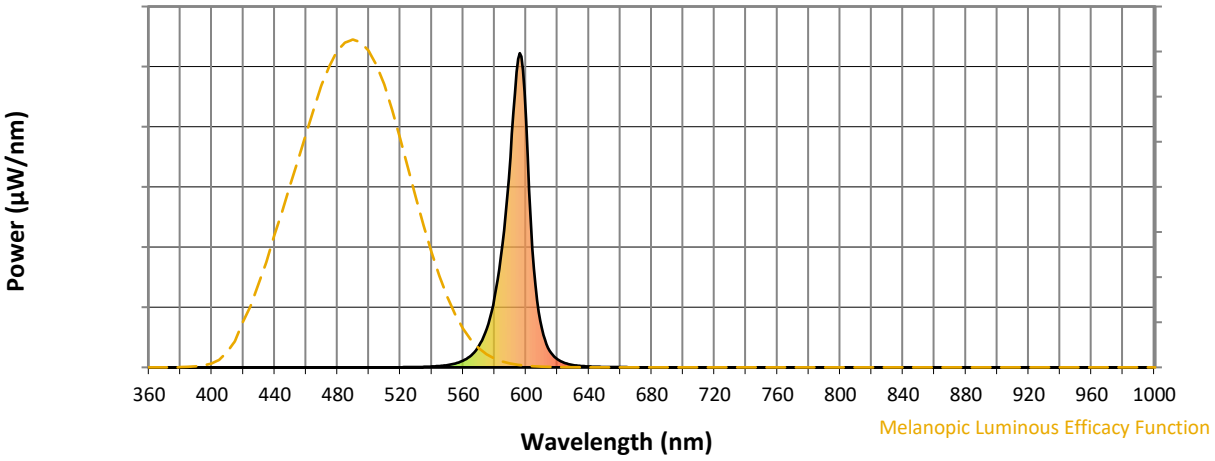


Scotopic Lumens: NR **S/P: 0.23**

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			

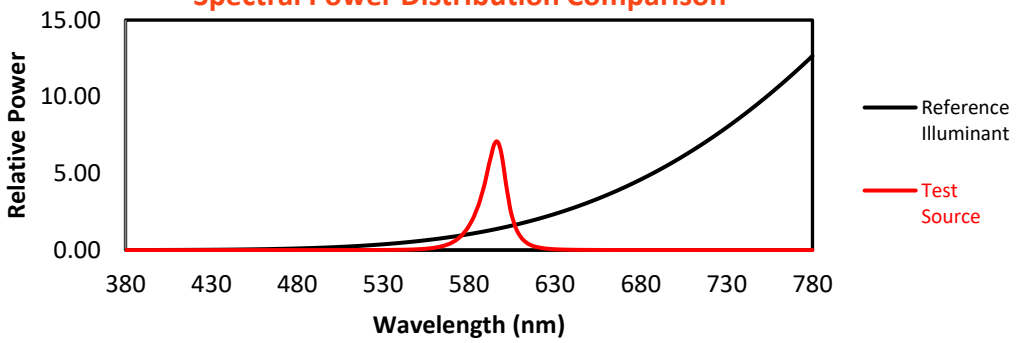
REPORT NUMBER: SP3-2509-541-1

TM-30-18

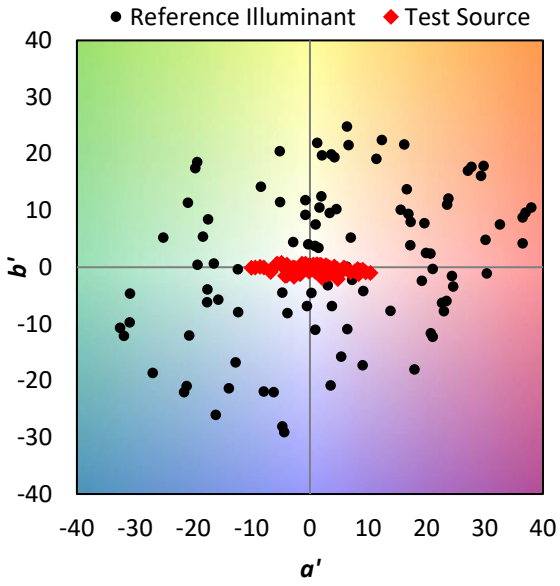
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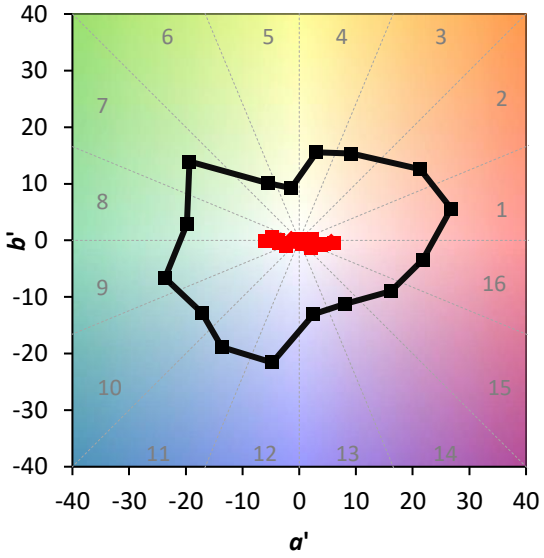
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

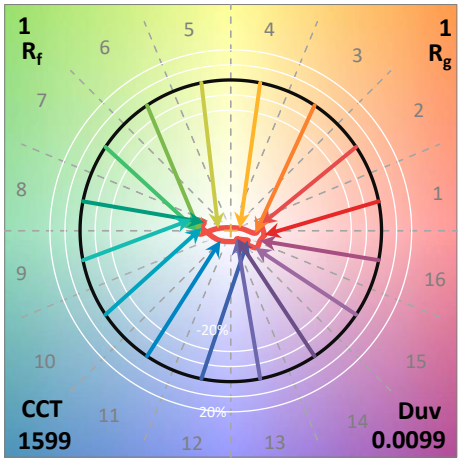
Spectral Power Distribution Comparison

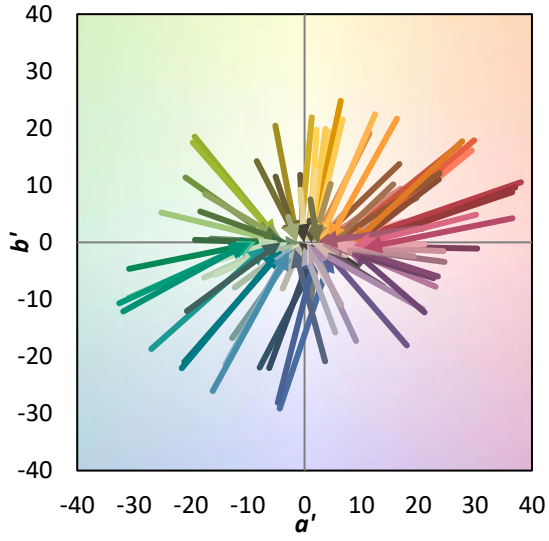


Color Vector Graphics







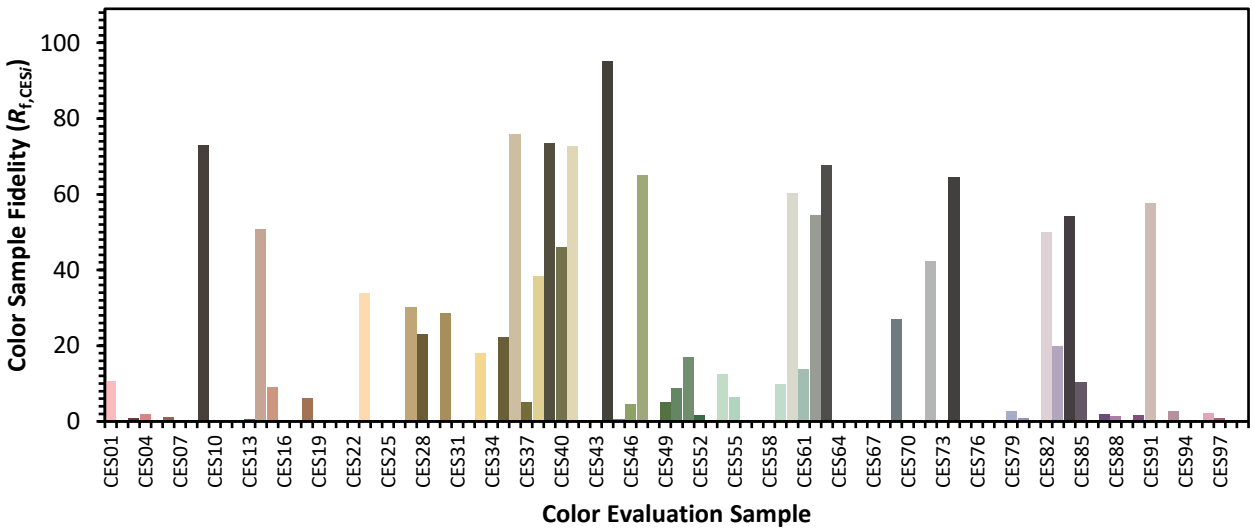


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

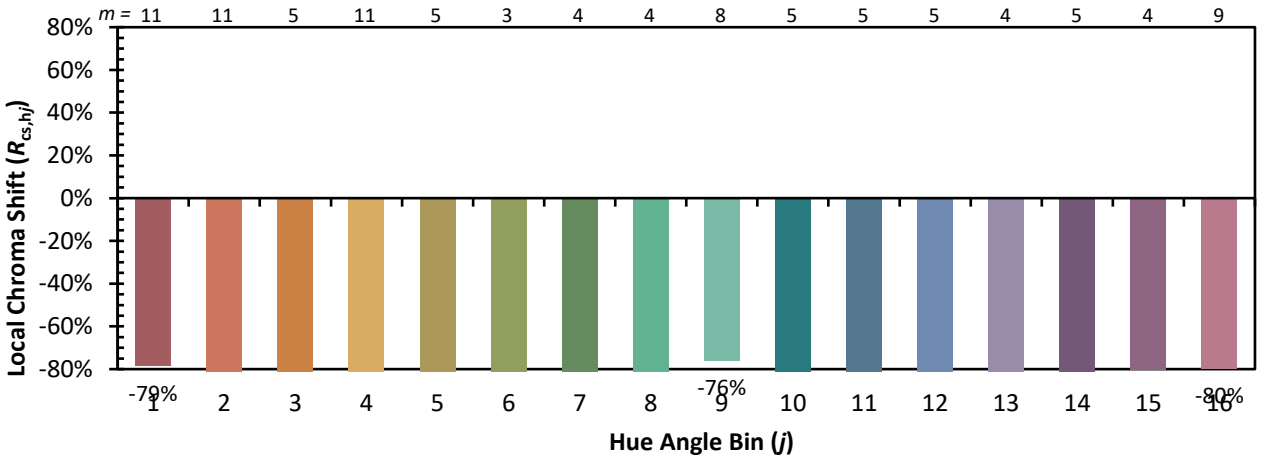
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CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 18	CES58 = 0	CES83 = 20
CES09 = 29	CES34 = 0	CES59 = 10	CES84 = 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
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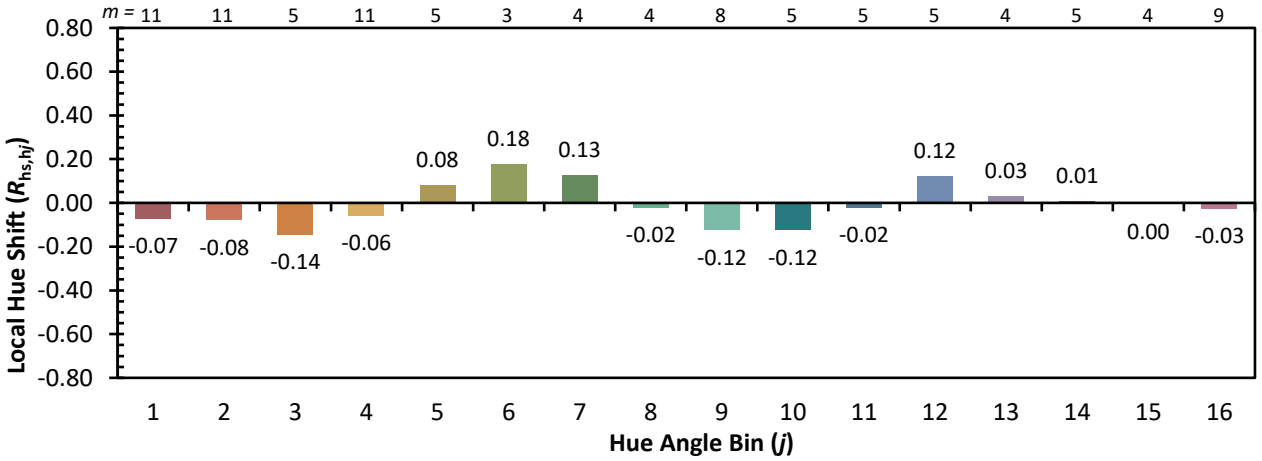


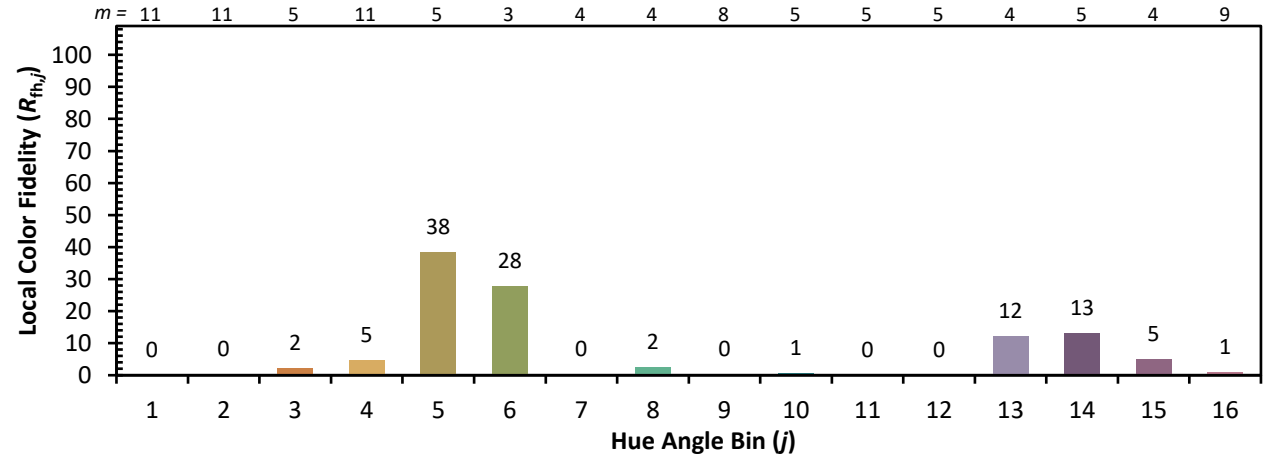
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Color Rendition by Hue-Angle Bin



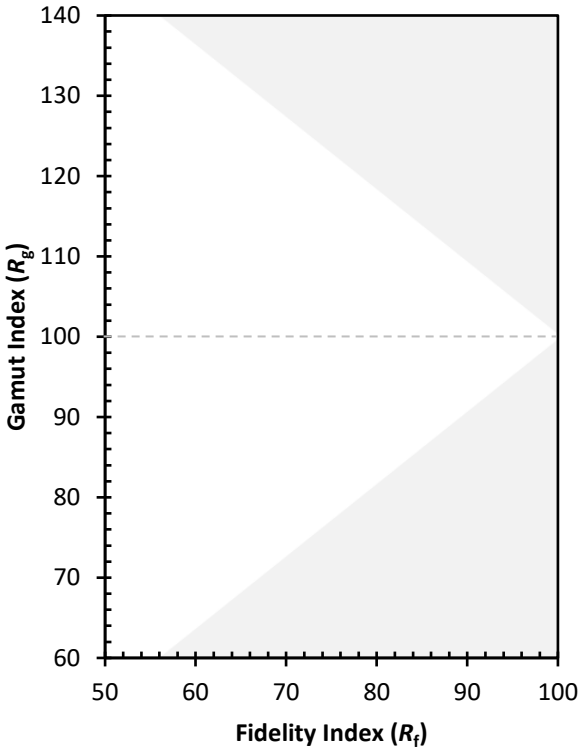


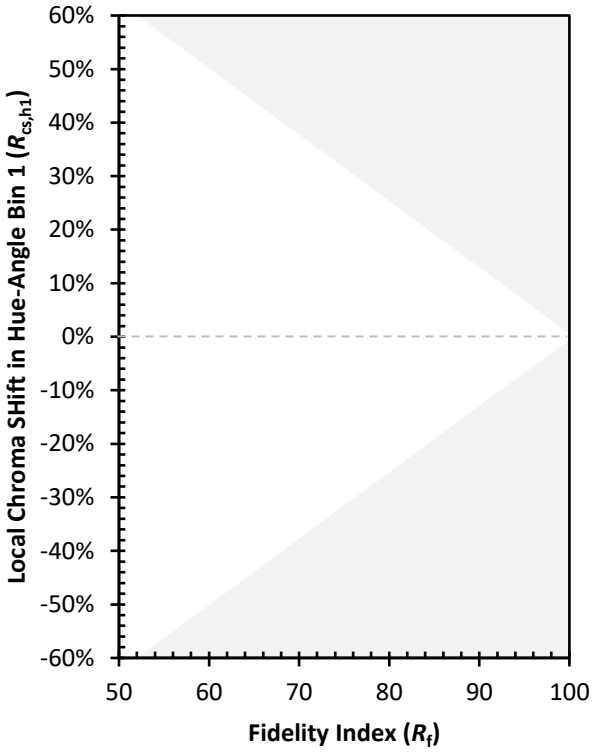


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Measure Comparisons





(END OF REPORT)