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-SLR

Issue Date: 10/28/2026

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1121 Highway 74 South
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-SLR
Description:	GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 3SQUARE 101W 1590K FIXTURE w/ RIGHT 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:	6243.7 lumens
Efficiency:	N/A
Efficacy:	61.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - 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

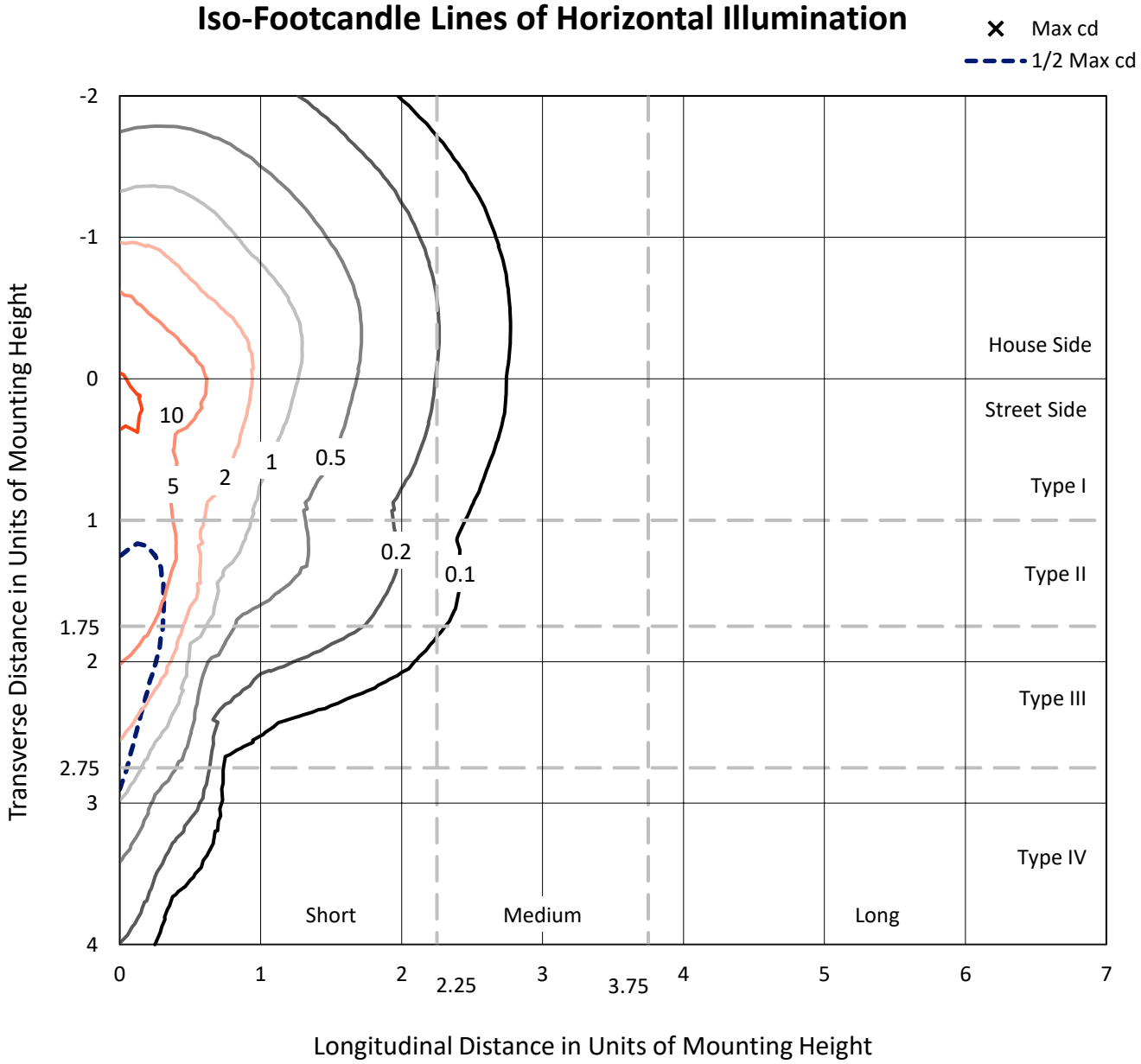


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Iso-Footcandle Lines of Horizontal Illumination



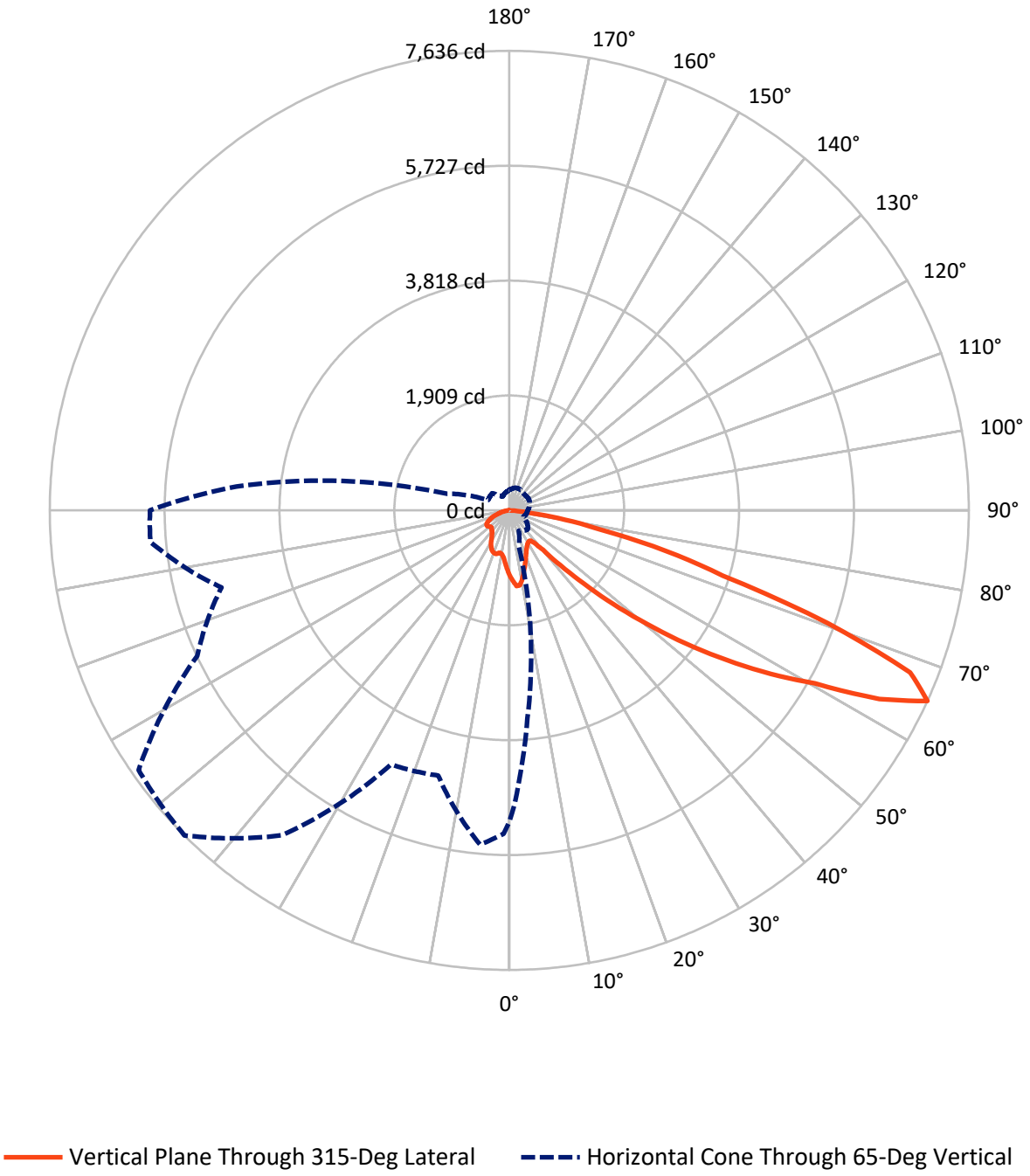
Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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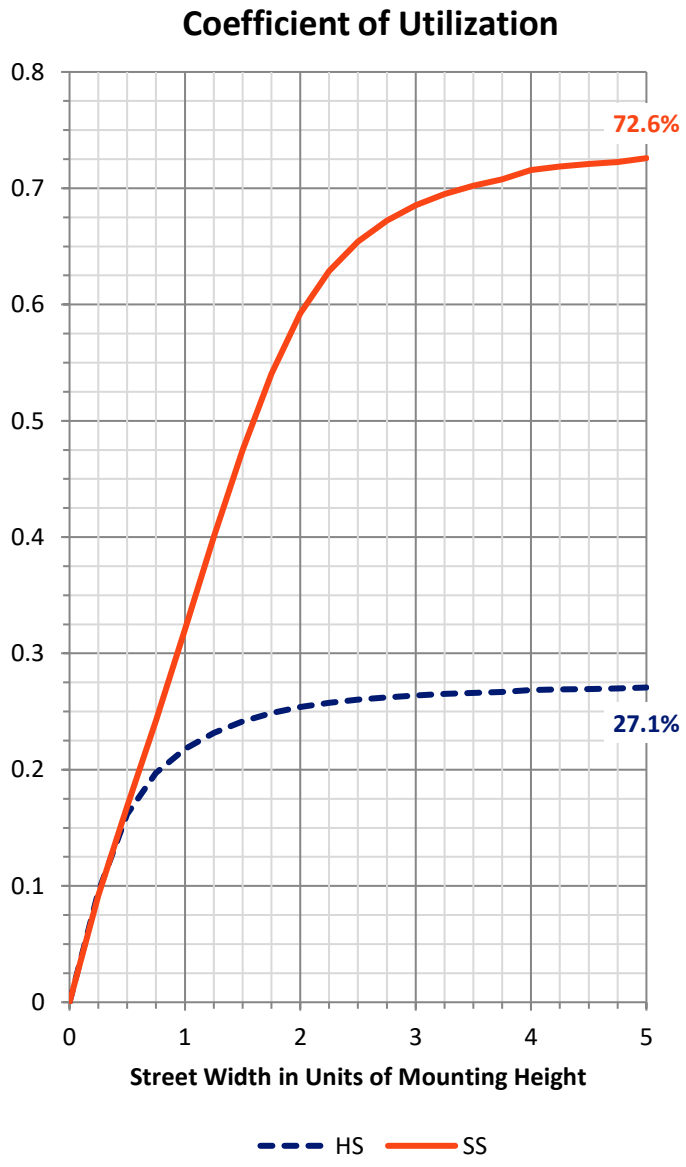
REPORT NUMBER: P1704730
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.1	0.0	1704.1
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	4539.6	0.0	4539.6
	% Fixture	72.7	0.0	72.7
Total	Lumens	6243.7	0.0	6243.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.6
10°-20°	284.8	4.6
20°-30°	432.6	6.9
30°-40°	525.0	8.4
40°-50°	752.4	12.0
50°-60°	1335.1	21.4
60°-70°	1832.7	29.4
70°-80°	894.9	14.3
80°-90°	86.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6243.7	100.0
0°-180°	6243.7	100.0



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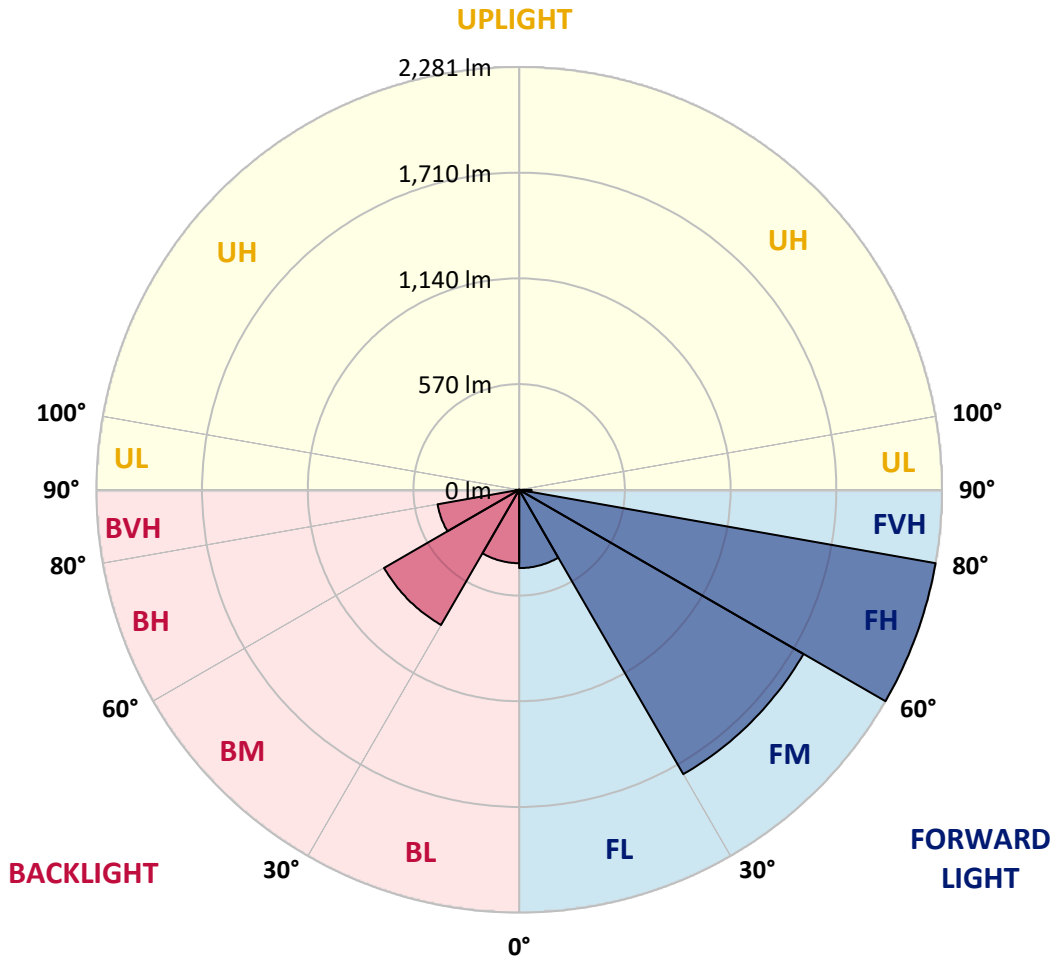
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	422.2	6.8			
FM	(30°-60°)	1770.5	28.4			
FH	(60°-80°)	2280.6	36.5			G2/5000
FVH	(80°-90°)	66.4	1.1			G1/100
BL	(0°-30°)	395.5	6.3	B1/500		
BM	(30°-60°)	841.9	13.5	B1/1000		
BH	(60°-80°)	447.1	7.2	B1/500		G1/500
BVH	(80°-90°)	19.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8
2.5°	1157.5	1157.5	1154.5	1139.6	1118.7	1103.7	1085.8	1064.8	1040.9	1028.9	1019.9
5°	1232.3	1217.4	1208.4	1178.5	1136.6	1100.7	1067.8	1034.9	996.0	960.1	936.2
7.5°	1250.3	1244.3	1244.3	1193.4	1148.6	1100.7	1064.8	1022.9	972.1	927.2	870.4
10°	1250.3	1247.3	1238.3	1214.4	1148.6	1097.7	1064.8	1025.9	981.1	924.2	870.4
12.5°	1241.3	1244.3	1247.3	1220.4	1154.5	1106.7	1061.8	1034.9	1002.0	966.1	915.3
15°	1226.3	1229.3	1247.3	1235.3	1166.5	1091.7	1049.9	1017.0	1019.9	1040.9	1014.0
17.5°	1217.4	1217.4	1256.2	1250.3	1169.5	1097.7	1008.0	981.1	1022.9	1115.7	1127.6
20°	1202.4	1211.4	1262.2	1262.2	1169.5	1046.9	939.2	927.2	1014.0	1124.6	1196.4
22.5°	1187.4	1196.4	1268.2	1289.1	1181.5	1011.0	855.4	864.4	966.1	1076.8	1172.5
25°	1175.5	1184.5	1277.2	1340.0	1190.4	957.1	789.6	822.5	906.3	987.0	1076.8
27.5°	1172.5	1196.4	1307.1	1408.8	1208.4	909.3	753.7	798.6	855.4	909.3	960.1
30°	1184.5	1202.4	1343.0	1471.6	1253.3	858.4	735.8	777.7	816.6	855.4	864.4
32.5°	1217.4	1238.3	1408.8	1558.3	1283.2	846.5	729.8	753.7	771.7	777.7	789.6
35°	1250.3	1286.2	1501.5	1642.1	1298.1	834.5	732.8	714.9	717.9	714.9	711.9
37.5°	1319.1	1357.9	1603.2	1740.8	1262.2	813.6	732.8	673.0	658.0	640.1	646.1
40°	1426.7	1459.6	1749.8	1860.4	1193.4	774.7	714.9	631.1	598.2	580.3	574.3
42.5°	1588.3	1642.1	1971.1	1989.1	1109.7	720.8	682.0	577.3	535.4	520.4	511.5
45°	1818.6	1887.4	2312.1	2186.5	1019.9	661.0	625.1	532.4	484.6	466.6	466.6
47.5°	2210.4	2303.1	2757.8	2434.7	918.3	622.1	553.3	472.6	427.7	418.7	427.7
50°	2823.6	2943.2	3481.6	2727.8	828.5	598.2	496.5	412.8	385.8	388.8	409.8
52.5°	3622.2	3810.6	4349.0	2823.6	774.7	580.3	463.6	367.9	361.9	370.9	394.8
55°	4630.2	4857.5	5084.8	2581.3	705.9	577.3	451.6	338.0	347.0	361.9	385.8
57.5°	5934.3	5910.3	5383.9	2207.4	634.1	565.3	463.6	323.0	329.0	347.0	367.9
60°	6616.2	6418.8	5174.5	1639.1	550.4	529.4	478.6	332.0	314.1	332.0	350.0
62.5°	6152.6	5823.6	4471.6	1052.9	463.6	475.6	478.6	350.0	281.2	305.1	323.0
65°	*5177.5*	*4887.4*	*3463.6*	*613.2*	*373.9*	*412.8*	*439.7*	*361.9*	*254.2*	*281.2*	*299.1*
67.5°	4477.6	4166.5	2626.1	382.9	284.2	329.0	385.8	350.0	233.3	254.2	269.2
70°	3676.0	3323.1	1851.5	263.2	218.3	260.2	320.0	308.1	218.3	227.3	248.3
72.5°	2689.0	2434.7	1076.8	173.5	173.5	191.4	230.3	254.2	203.4	206.4	221.3
75°	1758.7	1543.4	547.4	116.7	128.6	131.6	185.4	197.4	176.5	173.5	191.4
77.5°	771.7	696.9	236.3	80.8	86.7	92.7	137.6	155.5	140.6	134.6	149.6
80°	347.0	302.1	128.6	59.8	53.8	59.8	86.7	119.6	98.7	98.7	107.7
82.5°	101.7	95.7	68.8	38.9	32.9	35.9	44.9	71.8	71.8	65.8	68.8
85°	38.9	32.9	26.9	15.0	15.0	15.0	20.9	41.9	35.9	32.9	26.9
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	6.0	9.0	9.0	12.0	9.0
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°	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8
2.5°	1014.0	1002.0	990.0	978.1	987.0	978.1	984.1	990.0	999.0	1008.0	1011.0
5°	918.3	906.3	885.4	879.4	870.4	870.4	861.4	876.4	888.3	909.3	918.3
7.5°	858.4	846.5	813.6	801.6	789.6	783.7	786.6	804.6	816.6	834.5	846.5
10°	837.5	810.6	780.7	759.7	744.8	738.8	738.8	744.8	759.7	777.7	792.6
12.5°	873.4	840.5	783.7	753.7	732.8	720.8	726.8	729.8	741.8	759.7	774.7
15°	972.1	918.3	819.5	774.7	750.8	735.8	732.8	735.8	744.8	777.7	801.6
17.5°	1097.7	1019.9	876.4	795.6	765.7	756.7	744.8	750.8	768.7	816.6	867.4
20°	1172.5	1103.7	909.3	810.6	768.7	753.7	753.7	765.7	795.6	891.3	969.1
22.5°	1178.5	1112.7	903.3	795.6	756.7	738.8	744.8	756.7	804.6	939.2	1070.8
25°	1103.7	1046.9	858.4	762.7	726.8	705.9	708.9	732.8	783.7	972.1	1073.8
27.5°	972.1	945.2	771.7	702.9	673.0	664.0	673.0	693.9	747.8	906.3	984.1
30°	864.4	828.5	687.9	640.1	616.2	613.2	616.2	640.1	679.0	786.6	873.4
32.5°	786.6	741.8	622.1	586.2	568.3	553.3	565.3	589.2	604.2	711.9	777.7
35°	708.9	687.9	595.2	553.3	520.4	508.5	523.4	532.4	565.3	652.1	696.9
37.5°	643.1	622.1	577.3	532.4	496.5	475.6	487.5	508.5	547.4	613.2	649.1
40°	577.3	574.3	559.3	520.4	475.6	448.7	460.6	502.5	547.4	586.2	601.2
42.5°	526.4	529.4	532.4	499.5	457.6	436.7	445.7	490.5	541.4	556.3	553.3
45°	475.6	496.5	508.5	475.6	436.7	415.8	427.7	475.6	517.5	523.4	511.5
47.5°	445.7	466.6	481.6	454.6	430.7	406.8	421.7	463.6	499.5	502.5	478.6
50°	430.7	448.7	466.6	451.6	430.7	418.7	433.7	475.6	499.5	484.6	466.6
52.5°	412.8	436.7	466.6	457.6	439.7	430.7	451.6	490.5	508.5	481.6	454.6
55°	397.8	421.7	454.6	457.6	442.7	448.7	469.6	490.5	511.5	484.6	448.7
57.5°	385.8	409.8	442.7	445.7	436.7	448.7	466.6	484.6	502.5	463.6	433.7
60°	367.9	385.8	427.7	433.7	427.7	436.7	448.7	472.6	478.6	439.7	409.8
62.5°	338.0	358.9	391.8	409.8	406.8	403.8	412.8	439.7	439.7	400.8	373.9
65°	*305.1*	*323.0*	*352.9*	*370.9*	*373.9*	*361.9*	*379.9*	*394.8*	*388.8*	*355.9*	*341.0*
67.5°	275.2	287.1	311.1	323.0	326.0	320.0	326.0	341.0	329.0	314.1	299.1
70°	248.3	260.2	281.2	287.1	281.2	275.2	278.2	293.1	299.1	284.2	272.2
72.5°	224.3	230.3	245.3	251.2	236.3	212.4	239.3	263.2	269.2	251.2	242.3
75°	194.4	200.4	215.4	215.4	185.4	173.5	188.4	224.3	233.3	218.3	206.4
77.5°	152.5	164.5	182.5	182.5	149.6	137.6	149.6	182.5	182.5	176.5	167.5
80°	107.7	113.7	122.6	122.6	113.7	98.7	104.7	128.6	137.6	137.6	128.6
82.5°	65.8	65.8	77.8	77.8	65.8	59.8	71.8	80.8	83.7	77.8	65.8
85°	23.9	23.9	32.9	35.9	29.9	23.9	23.9	35.9	29.9	23.9	23.9
87.5°	9.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8
2.5°	1014.0	1031.9	1049.9	1061.8	1082.8	1103.7	1115.7	1133.6	1145.6	1151.6	1157.5
5°	933.2	966.1	1002.0	1034.9	1070.8	1121.6	1148.6	1187.4	1211.4	1223.3	1229.3
7.5°	864.4	897.3	960.1	1005.0	1064.8	1121.6	1163.5	1214.4	1235.3	1250.3	1253.3
10°	816.6	864.4	933.2	1011.0	1061.8	1118.7	1166.5	1223.3	1244.3	1247.3	1244.3
12.5°	804.6	876.4	963.1	1028.9	1076.8	1121.6	1166.5	1229.3	1238.3	1226.3	1208.4
15°	834.5	930.2	1017.0	1064.8	1100.7	1136.6	1181.5	1235.3	1223.3	1196.4	1154.5
17.5°	930.2	1058.8	1088.7	1085.8	1118.7	1145.6	1184.5	1235.3	1202.4	1160.5	1112.7
20°	1070.8	1175.5	1124.6	1070.8	1091.7	1136.6	1196.4	1238.3	1184.5	1124.6	1052.9
22.5°	1166.5	1211.4	1109.7	1014.0	1014.0	1106.7	1196.4	1256.2	1172.5	1091.7	1014.0
25°	1151.6	1139.6	1031.9	939.2	912.3	1058.8	1199.4	1277.2	1172.5	1073.8	978.1
27.5°	1055.8	1025.9	939.2	873.4	825.5	990.0	1208.4	1319.1	1187.4	1067.8	963.1
30°	918.3	921.2	879.4	813.6	762.7	936.2	1223.3	1390.8	1217.4	1067.8	957.1
32.5°	813.6	825.5	807.6	777.7	726.8	879.4	1271.2	1477.6	1256.2	1073.8	954.1
35°	726.8	738.8	744.8	723.8	699.9	831.5	1331.0	1570.3	1313.1	1109.7	966.1
37.5°	658.0	667.0	679.0	676.0	685.0	822.5	1360.9	1654.1	1381.9	1136.6	987.0
40°	598.2	598.2	619.1	622.1	667.0	795.6	1346.0	1731.8	1459.6	1184.5	1034.9
42.5°	544.4	541.4	553.3	580.3	667.0	756.7	1277.2	1815.6	1567.3	1262.2	1103.7
45°	496.5	487.5	505.5	535.4	649.1	696.9	1178.5	1911.3	1713.9	1369.9	1205.4
47.5°	457.6	442.7	457.6	499.5	595.2	625.1	1049.9	2022.0	1875.4	1495.5	1349.0
50°	439.7	406.8	397.8	451.6	520.4	571.3	930.2	2135.6	2114.7	1687.0	1519.5
52.5°	427.7	382.9	364.9	379.9	448.7	550.4	807.6	2407.8	2656.1	2045.9	1776.7
55°	418.7	373.9	352.9	338.0	394.8	532.4	717.9	2617.2	3568.3	2949.2	2318.1
57.5°	400.8	355.9	335.0	308.1	397.8	511.5	643.1	2706.9	4725.9	4163.5	3212.4
60°	379.9	341.0	311.1	293.1	400.8	493.5	562.3	2494.5	5231.4	5721.9	4468.6
62.5°	352.9	311.1	284.2	290.1	412.8	448.7	481.6	1836.5	5222.4	6341.0	6529.5
65°	*320.0*	*293.1*	*254.2*	*296.1*	*400.8*	*394.8*	*391.8*	*1061.8*	*4552.4*	*5970.1*	*5988.1*
67.5°	287.1	263.2	233.3	296.1	364.9	341.0	290.1	571.3	3667.0	5291.2	5458.7
70°	260.2	239.3	212.4	263.2	308.1	269.2	215.4	329.0	2605.2	4244.3	4785.7
72.5°	233.3	212.4	194.4	230.3	230.3	203.4	158.5	188.4	1579.3	3167.5	3975.1
75°	197.4	179.5	173.5	203.4	182.5	128.6	122.6	119.6	822.5	2174.5	2991.1
77.5°	161.5	140.6	134.6	170.5	146.6	89.7	83.7	77.8	361.9	1259.2	1938.2
80°	128.6	107.7	92.7	125.6	101.7	56.8	47.9	50.8	110.7	335.0	550.4
82.5°	62.8	62.8	59.8	83.7	53.8	32.9	26.9	32.9	59.8	107.7	155.5
85°	23.9	23.9	26.9	38.9	20.9	12.0	9.0	12.0	17.9	26.9	32.9
87.5°	3.0	6.0	3.0	3.0	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

REPORT NUMBER: P1704730
CATALOG NUMBER: GSS-SB3A-AMB-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1082.8	1082.8	1082.8	*1082.8*	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8
2.5°	1163.5	1169.5	1172.5	*1172.5*	1178.5	1172.5	1163.5	1160.5	1157.5	1157.5
5°	1244.3	1250.3	1256.2	*1262.2*	1259.2	1253.3	1238.3	1226.3	1223.3	1232.3
7.5°	1259.2	1256.2	1253.3	*1256.2*	1247.3	1247.3	1262.2	1253.3	1247.3	1250.3
10°	1220.4	1187.4	1181.5	*1169.5*	1175.5	1181.5	1220.4	1247.3	1241.3	1250.3
12.5°	1151.6	1103.7	1070.8	*1058.8*	1070.8	1097.7	1157.5	1223.3	1232.3	1241.3
15°	1076.8	1005.0	975.1	*966.1*	978.1	1014.0	1079.8	1187.4	1217.4	1226.3
17.5°	999.0	930.2	888.3	*873.4*	894.3	933.2	1025.9	1154.5	1196.4	1217.4
20°	927.2	855.4	810.6	*792.6*	816.6	876.4	975.1	1115.7	1175.5	1202.4
22.5°	876.4	792.6	744.8	*726.8*	756.7	822.5	924.2	1082.8	1160.5	1187.4
25°	837.5	747.8	690.9	*676.0*	717.9	777.7	894.3	1058.8	1142.6	1175.5
27.5°	810.6	708.9	655.0	*640.1*	679.0	753.7	873.4	1031.9	1139.6	1172.5
30°	795.6	687.9	631.1	*616.2*	658.0	735.8	858.4	1031.9	1139.6	1184.5
32.5°	789.6	685.0	625.1	*607.2*	658.0	738.8	855.4	1034.9	1157.5	1217.4
35°	798.6	699.9	637.1	*619.1*	676.0	765.7	876.4	1061.8	1196.4	1250.3
37.5°	822.5	738.8	687.9	*693.9*	738.8	822.5	933.2	1121.6	1256.2	1319.1
40°	879.4	816.6	840.5	*861.4*	921.2	942.2	1031.9	1223.3	1366.9	1426.7
42.5°	963.1	1014.0	1136.6	*1244.3*	1241.3	1166.5	1169.5	1354.9	1516.5	1588.3
45°	1133.6	1298.1	1573.3	*1734.8*	1663.0	1510.5	1381.9	1537.4	1725.8	1818.6
47.5°	1352.0	1698.9	2111.7	*2324.1*	2189.5	1881.4	1624.1	1806.6	2078.8	2210.4
50°	1603.2	2174.5	2730.8	*2961.1*	2721.9	2249.3	1899.3	2165.5	2611.2	2823.6
52.5°	1890.3	2626.1	3415.8	*3682.0*	3305.1	2596.2	2168.5	2736.8	3391.9	3622.2
55°	2108.7	3041.9	4139.6	*4393.9*	3858.5	2859.4	2458.6	3550.4	4393.9	4630.2
57.5°	2365.9	3421.8	4725.9	*5123.7*	4277.2	3116.7	2820.6	4693.0	5739.8	5934.3
60°	2712.9	3891.4	5392.9	*5838.5*	4818.6	3430.7	3370.9	6122.7	6658.1	6616.2
62.5°	4026.0	4872.4	6493.6	*6903.4*	5838.5	4358.0	4639.1	6607.2	6329.1	6152.6
65°	*4950.2*	*5721.9*	*7519.5*	*7636.2*	*6589.3*	*4657.1*	*4561.4*	*5575.3*	*5374.9*	*5177.5*
67.5°	4079.8	5342.0	7178.5	*7184.5*	6140.6	4115.7	3613.2	4932.3	4693.0	4477.6
70°	3412.8	4648.1	6287.2	*5617.2*	5428.8	3655.1	3089.8	4381.9	3909.3	3676.0
72.5°	2835.5	3604.2	5171.5	*3708.9*	4582.3	3056.9	2641.1	3592.3	3000.0	2689.0
75°	2219.4	2853.5	3236.3	*2683.0*	3012.0	2383.9	2060.8	2602.2	1980.1	1758.7
77.5°	1489.5	1896.3	2117.7	*1579.3*	2051.9	1645.1	1043.9	1208.4	894.3	771.7
80°	580.3	918.3	1166.5	*942.2*	1097.7	903.3	436.7	502.5	370.9	347.0
82.5°	227.3	403.8	526.4	*364.9*	511.5	478.6	152.5	122.6	104.7	101.7
85°	50.8	212.4	212.4	*137.6*	155.5	230.3	53.8	38.9	38.9	38.9
87.5°	0.0	0.0	0.0	*3.0*	3.0	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

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

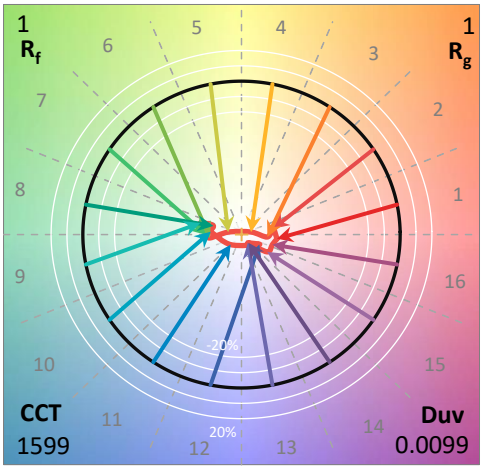
Test Information

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

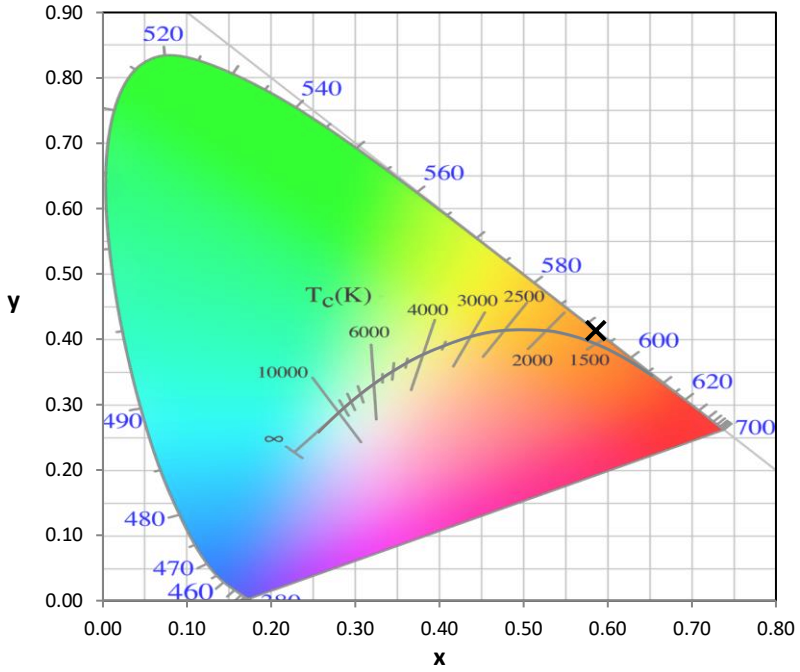
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP3-2509-541-1

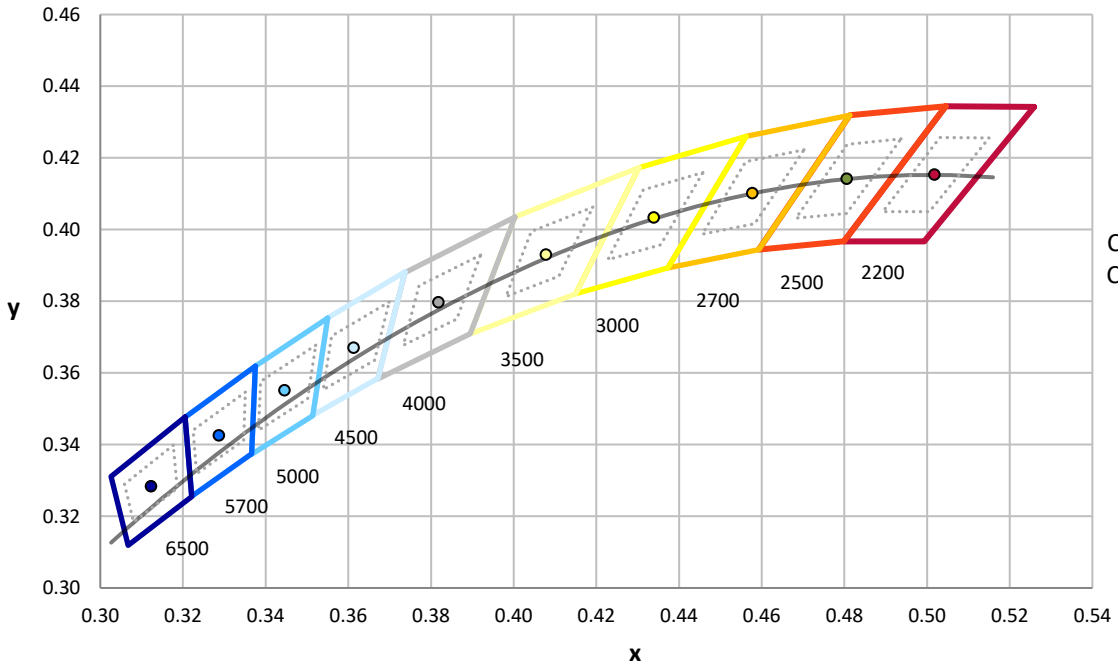
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	1/20/2025	1/20/2026
AC Power Source	CHROMA 61604 IN6064A	10/22/2024	10/22/2025
DC Power Source	EYSIGHT N5770A IN0534	10/22/2024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

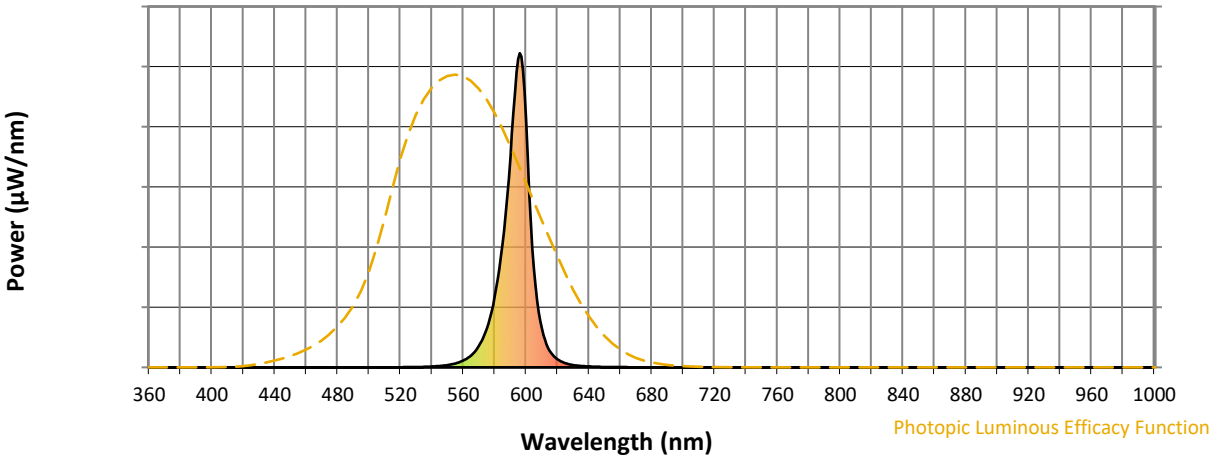


CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

Photopic Flux vs. Wavelength

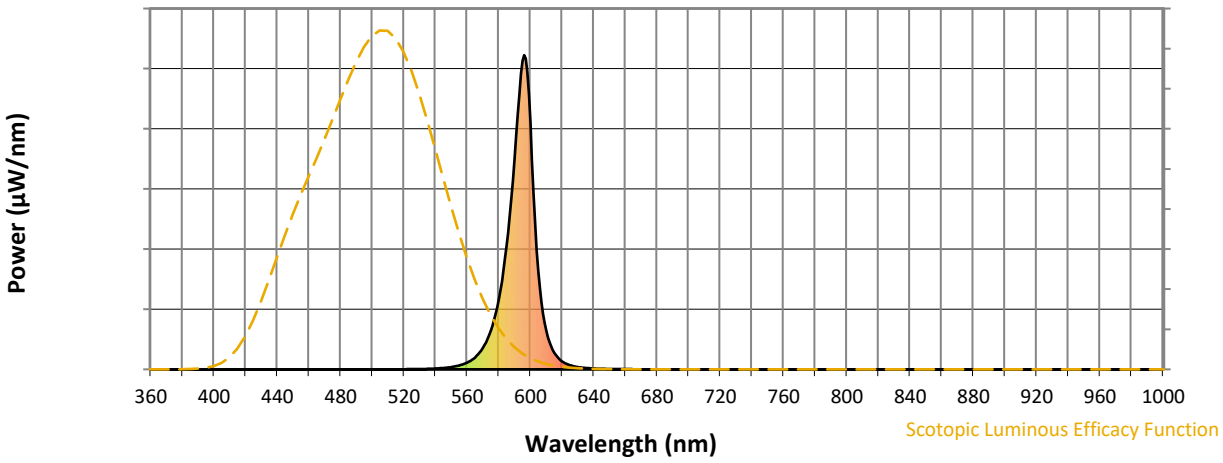


Photopic Lumens: NR

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

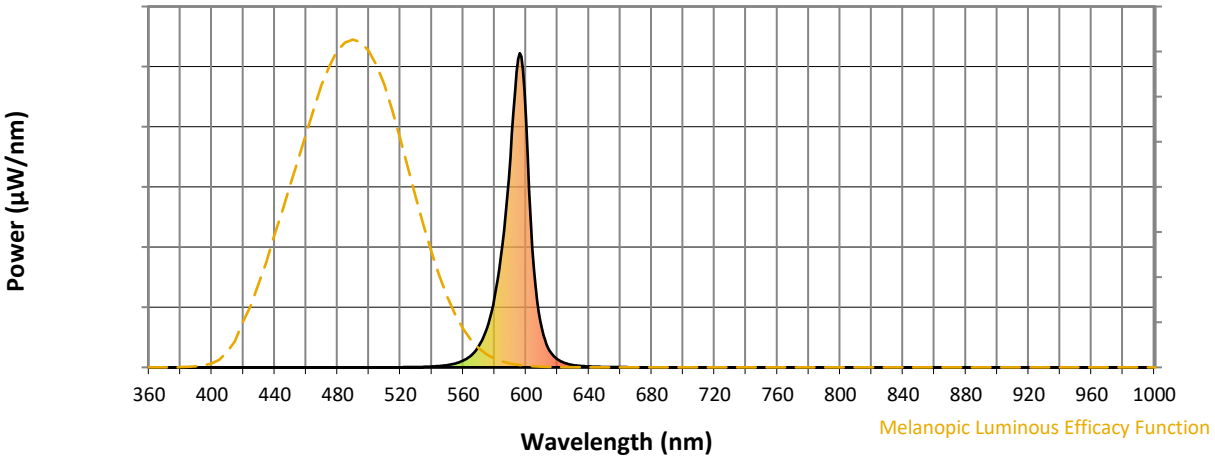


Scotopic Lumens: NR **S/P: 0.23**

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			

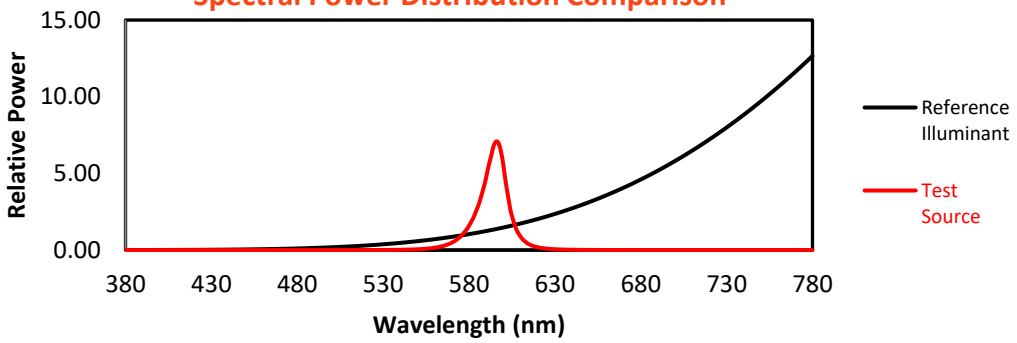
REPORT NUMBER: SP3-2509-541-1

TM-30-18

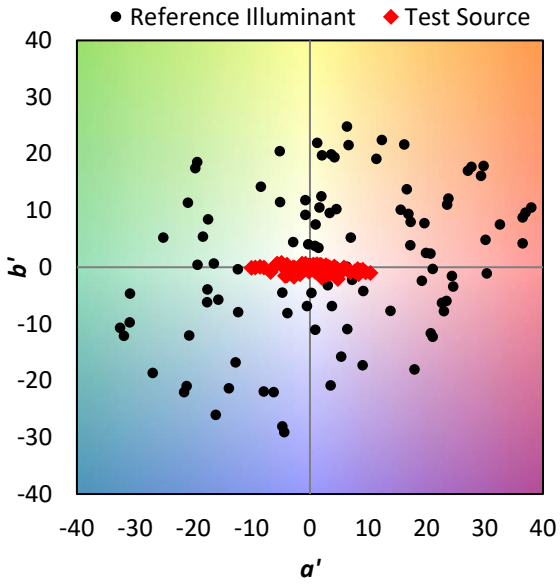
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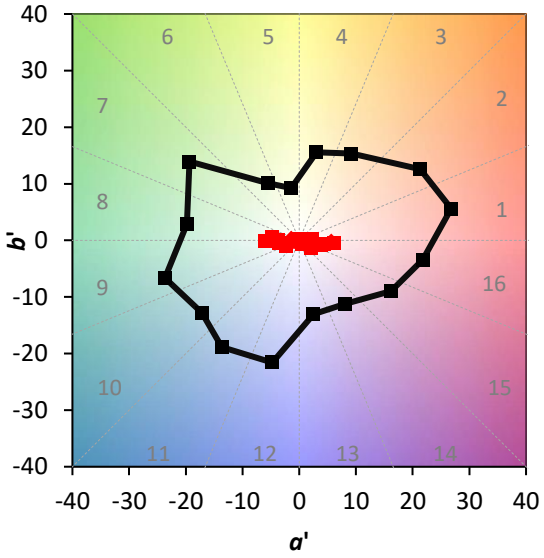
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R_g = 0.9
CIE R_a = -22.7
R_9 = -395.3

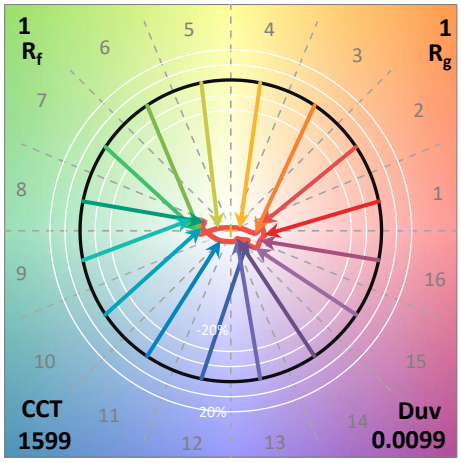
Spectral Power Distribution Comparison

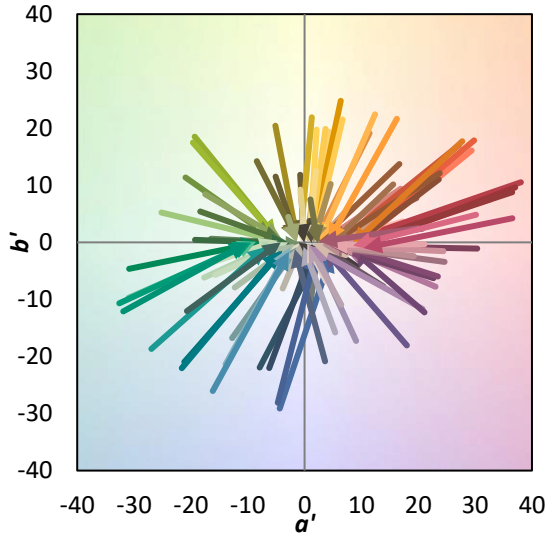


Color Vector Graphics







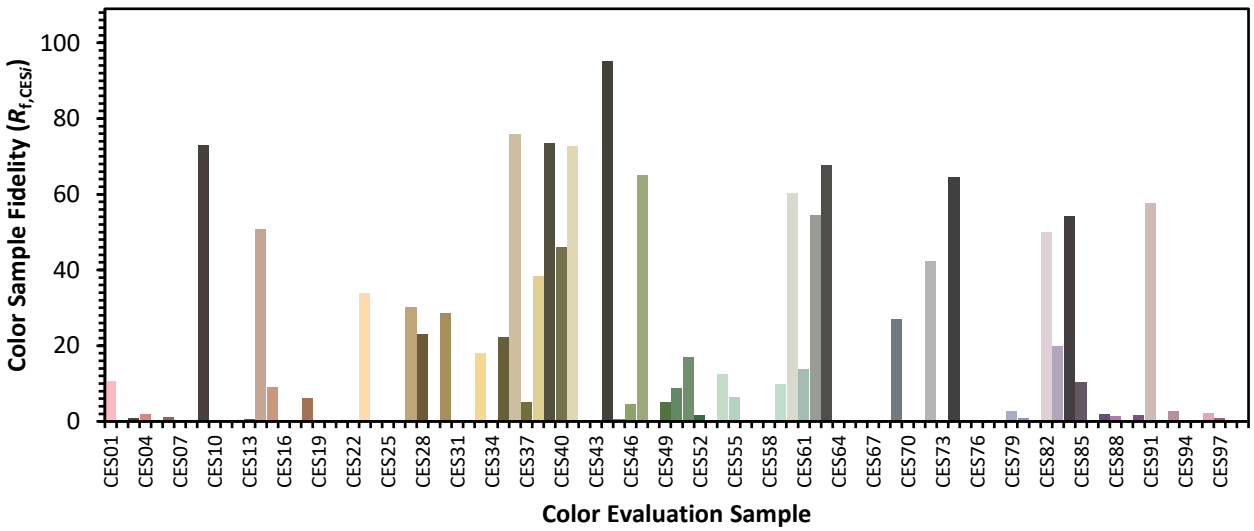


REPORT NUMBER: SP3-2509-541-1

TM-30-18

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

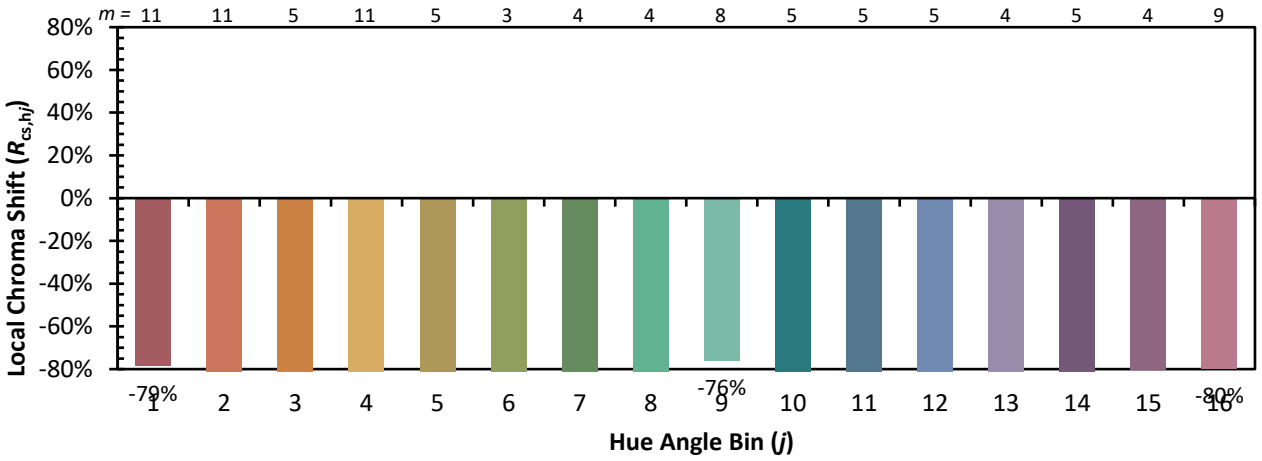
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CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 30	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 3
CES05 = 51	CES30 = 29	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 40	CES32 = 0	CES57 = 0	CES82 =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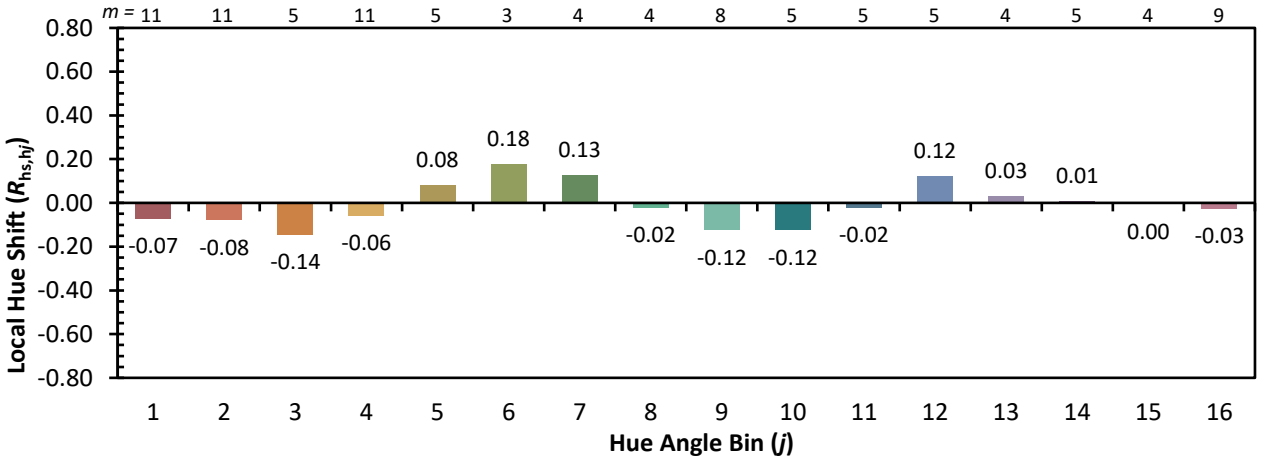


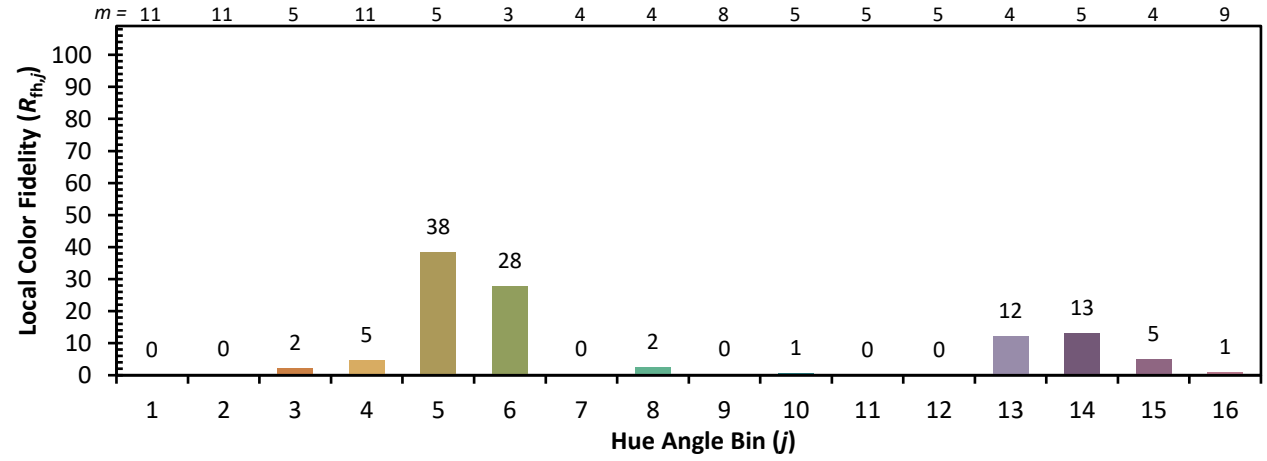
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Color Rendition by Hue-Angle Bin



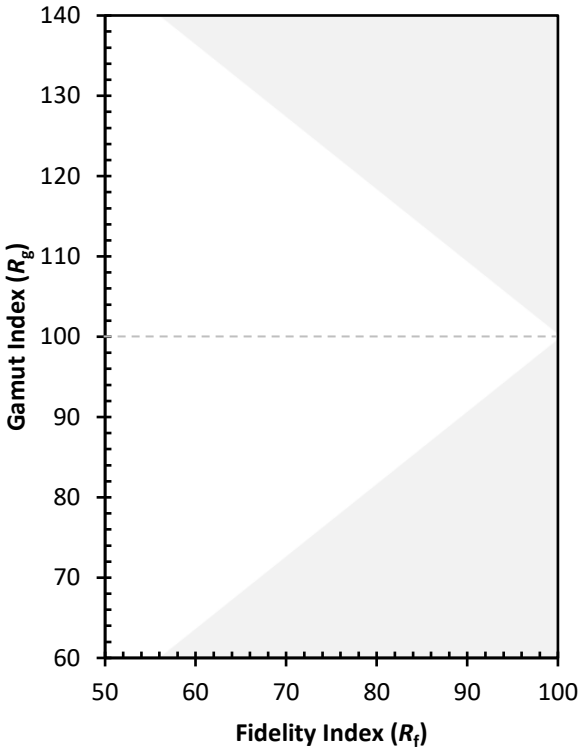


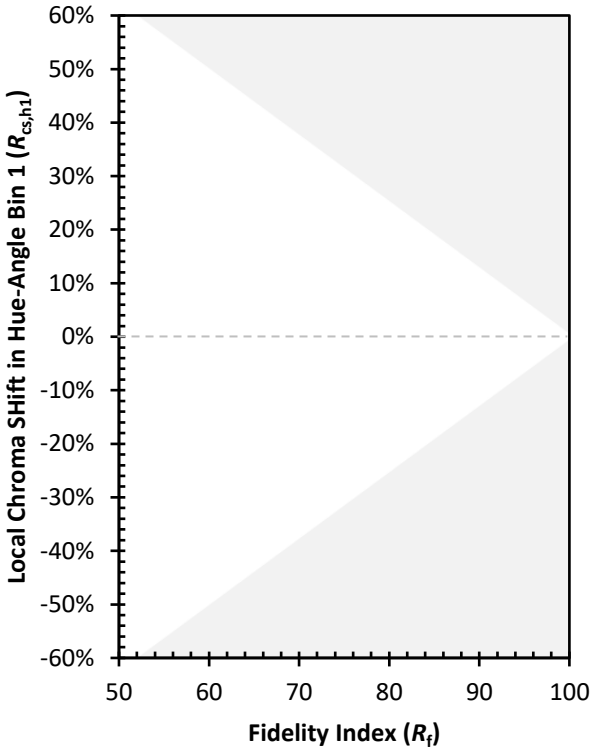


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Measure Comparisons





(END OF REPORT)