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: P1501545

Luminaire Tested: GSS-SB2A-835-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501545
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-835-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 58W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7689.1 lumens
Efficiency:	N/A
Efficacy:	132.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

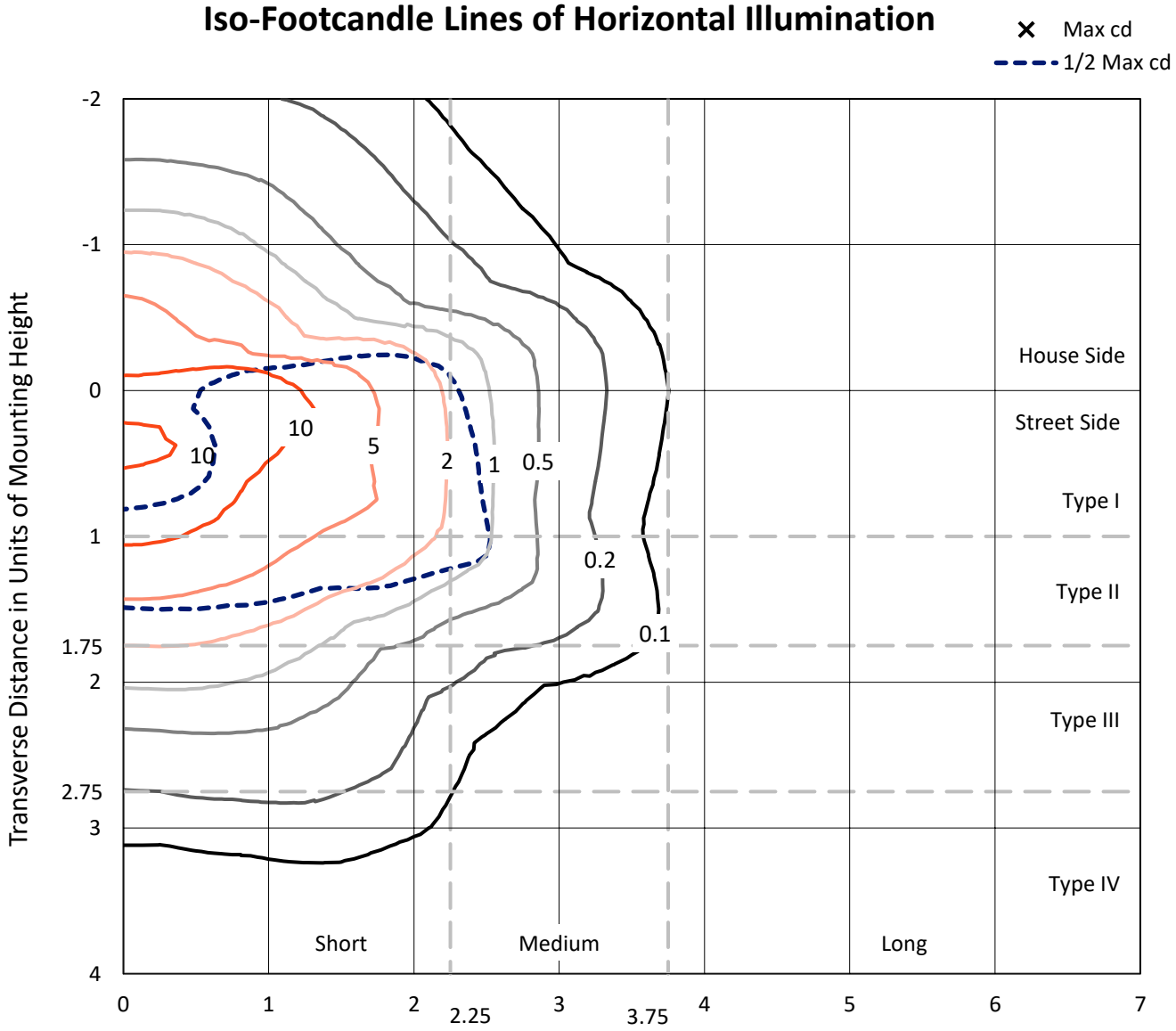
Input Watts (W):	58
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



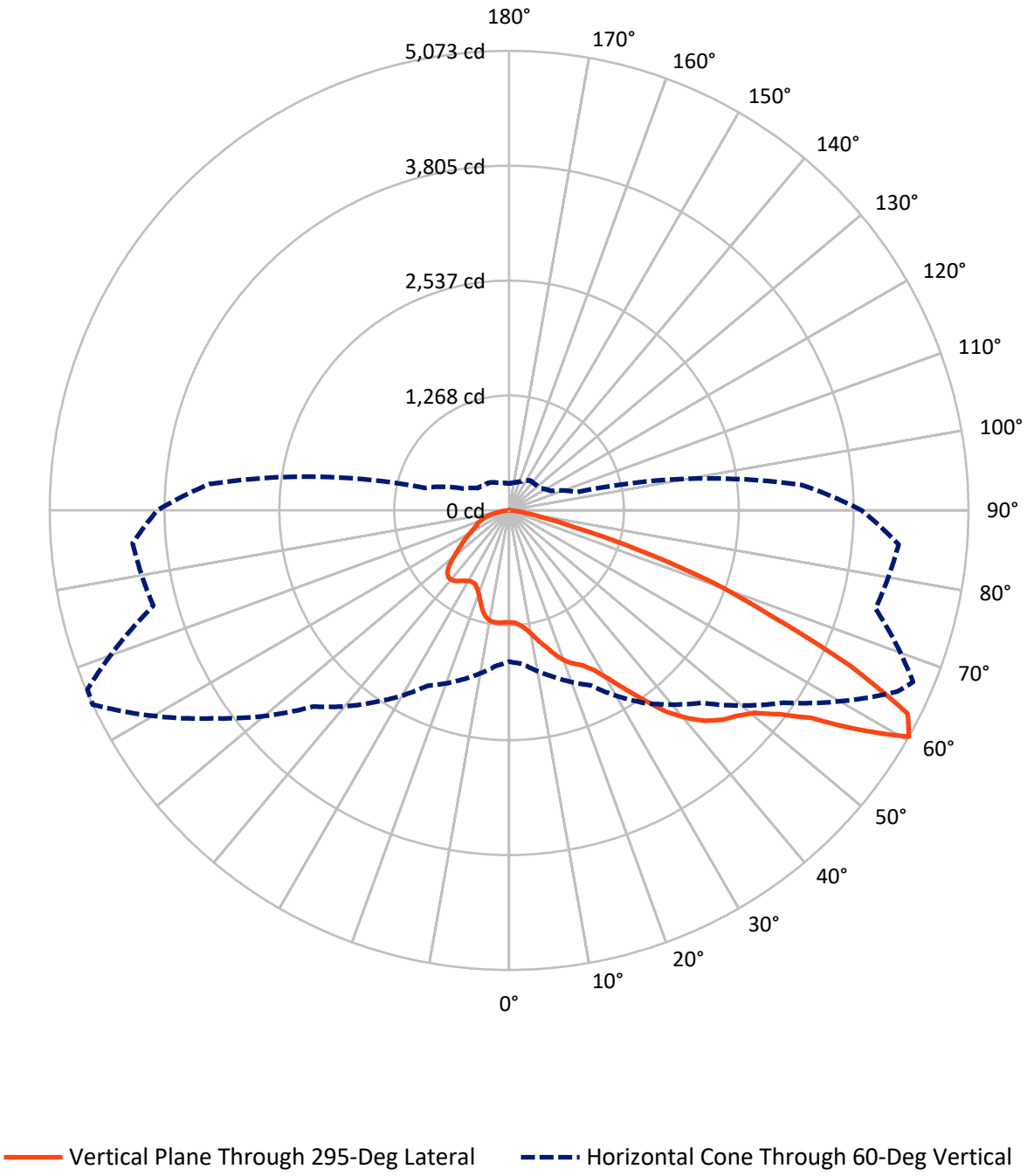
Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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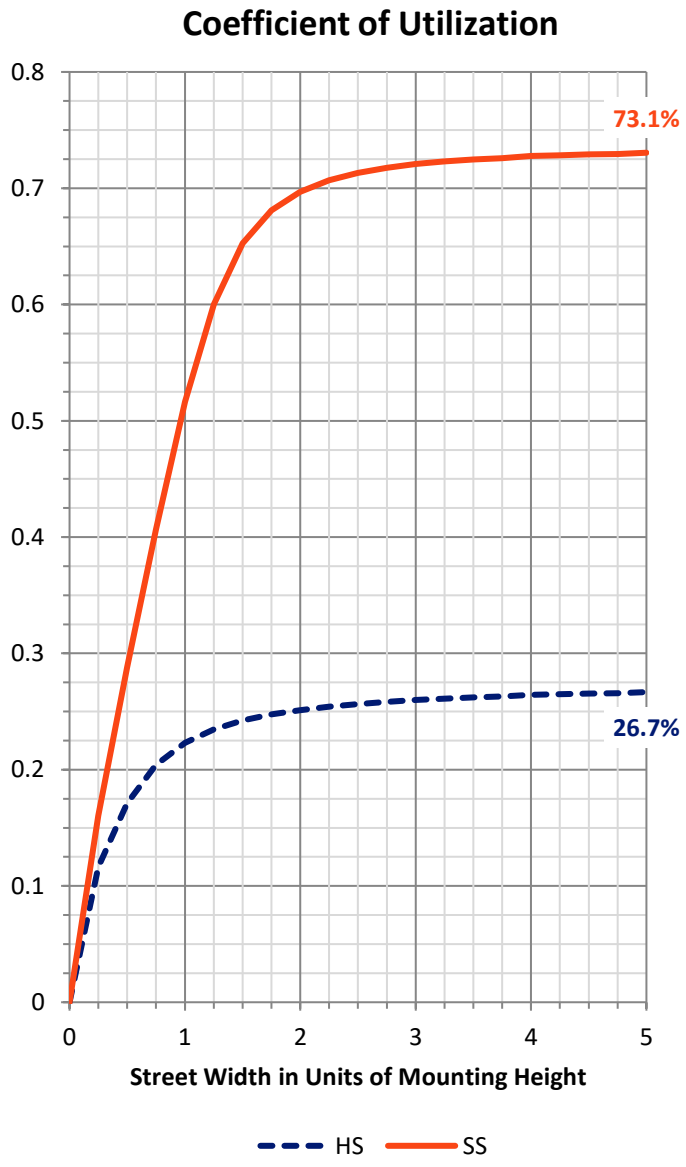
REPORT NUMBER: P1501545
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2067.7	0.0	2067.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5621.4	0.0	5621.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	7689.1	0.0	7689.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.5
10°-20°	334.4	4.3
20°-30°	633.4	8.2
30°-40°	1116.6	14.5
40°-50°	1651.4	21.5
50°-60°	1939.1	25.2
60°-70°	1405.0	18.3
70°-80°	433.3	5.6
80°-90°	59.7	0.8
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°	7689.1	100.0
0°-180°	7689.1	100.0



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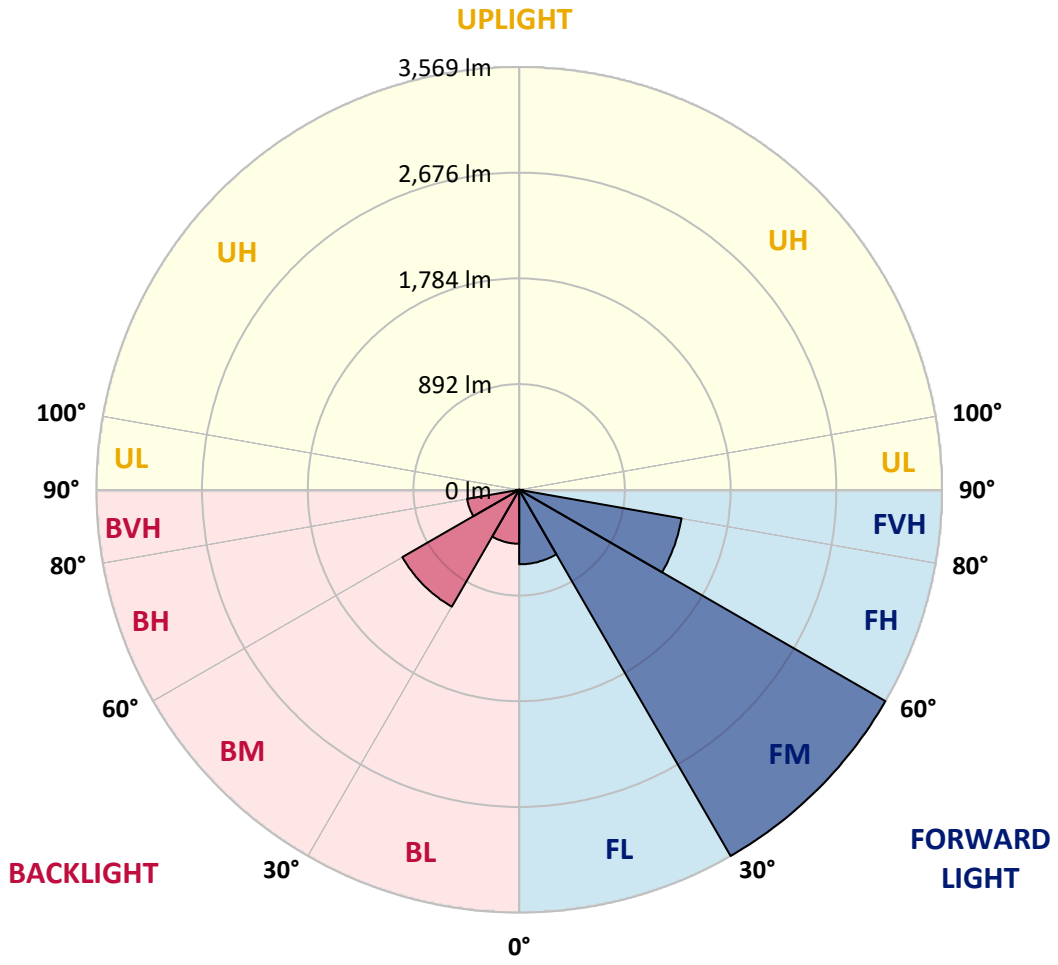
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	628.7	8.2			
FM	(30°-60°)	3568.6	46.4			
FH	(60°-80°)	1392.0	18.1			G1/1800
FVH	(80°-90°)	32.2	0.4			G1/100
BL	(0°-30°)	455.4	5.9	B1/500		
BM	(30°-60°)	1138.5	14.8	B2/2500		
BH	(60°-80°)	446.3	5.8	B1/500		G1/500
BVH	(80°-90°)	27.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1261.7	1265.2	1259.9	1263.4	1263.4	1258.2	1256.4	1249.4	1252.9	1251.2	1249.4
5°	1291.5	1293.2	1289.7	1295.0	1295.0	1296.7	1295.0	1286.2	1286.2	1286.2	1282.7
7.5°	1282.7	1282.7	1284.5	1302.0	1319.5	1342.3	1342.3	1338.8	1342.3	1340.5	1324.8
10°	1209.1	1216.1	1231.9	1275.7	1317.7	1366.8	1400.1	1410.6	1410.6	1412.4	1386.1
12.5°	1077.7	1082.9	1119.7	1186.3	1273.9	1363.3	1443.9	1496.5	1501.7	1510.5	1475.5
15°	960.3	963.8	990.1	1058.4	1158.3	1316.0	1468.4	1577.1	1594.6	1631.4	1578.8
17.5°	970.8	969.0	976.0	1002.3	1074.2	1238.9	1463.2	1671.7	1703.3	1768.1	1722.5
20°	1033.9	1033.9	1039.1	1044.4	1070.7	1182.8	1424.6	1748.8	1810.2	1936.3	1883.7
22.5°	1133.8	1133.8	1132.0	1140.8	1140.8	1207.4	1426.4	1806.6	1897.8	2123.8	2073.0
25°	1272.2	1265.2	1265.2	1268.7	1252.9	1300.2	1470.2	1866.2	1985.4	2346.4	2302.6
27.5°	1428.1	1433.4	1429.9	1417.6	1396.6	1433.4	1575.3	1959.1	2083.5	2581.2	2563.7
30°	1598.1	1599.9	1603.4	1596.4	1578.8	1605.1	1740.1	2099.3	2213.2	2826.5	2865.1
32.5°	1764.6	1789.1	1780.4	1762.8	1769.8	1817.2	1943.3	2288.5	2405.9	3054.3	3191.0
35°	1976.6	1985.4	2020.4	1955.6	1957.3	2038.0	2202.7	2537.4	2651.3	3290.9	3516.9
37.5°	2285.0	2300.8	2285.0	2183.4	2167.6	2279.8	2455.0	2782.7	2865.1	3469.6	3820.1
40°	2588.2	2607.5	2633.7	2514.6	2414.7	2507.6	2693.3	2970.2	3056.1	3567.7	4021.6
42.5°	2838.8	2870.3	2842.3	2807.2	2716.1	2733.6	2859.8	3115.6	3201.5	3692.1	4224.9
45°	3050.8	3056.1	3068.3	3043.8	2998.2	2982.5	3001.7	3243.6	3338.2	3748.2	4324.7
47.5°	3138.4	3161.2	3171.7	3213.8	3261.1	3229.5	3122.6	3303.1	3389.0	3744.7	4356.3
50°	3091.1	3113.9	3170.0	3269.8	3383.7	3439.8	3264.6	3385.5	3481.9	3807.8	4421.1
52.5°	2966.7	2991.2	3082.3	3196.2	3387.2	3515.2	3464.3	3557.2	3650.1	3920.0	4529.8
55°	2665.3	2702.1	2830.0	3019.3	3282.1	3474.9	3674.6	3809.6	3911.2	4054.9	4641.9
57.5°	2227.2	2265.8	2409.4	2693.3	3087.6	3308.4	3736.0	4282.7	4328.2	4216.1	4652.4
60°	*1668.2*	*1699.8*	*1903.0*	*2130.8*	*2593.4*	*3003.5*	*3700.9*	*4731.3*	*4846.9*	*4188.1*	*4317.7*
62.5°	1321.3	1359.8	1540.3	1645.4	1976.6	2481.3	3578.2	4855.7	4955.6	3956.8	3851.6
65°	1032.1	1058.4	1226.6	1377.3	1457.9	1694.5	3066.6	4247.6	4337.0	3580.0	3178.7
67.5°	681.7	722.0	921.7	1128.5	1170.6	1077.7	2109.8	3268.1	3310.1	2845.8	2390.2
70°	488.9	508.2	657.1	877.9	941.0	722.0	1149.5	2474.3	2486.5	1910.0	1610.4
72.5°	332.9	336.4	446.8	672.9	750.0	523.9	632.6	1629.7	1587.6	942.8	921.7
75°	226.0	229.6	285.6	448.6	531.0	364.5	411.8	888.4	853.4	520.4	559.0
77.5°	152.5	156.0	196.3	301.4	354.0	252.3	301.4	469.6	460.9	345.2	299.6
80°	115.7	120.9	145.4	192.8	247.1	147.2	171.7	222.5	226.0	184.0	152.5
82.5°	64.8	71.8	87.6	98.1	159.5	82.4	82.4	133.2	127.9	113.9	82.4
85°	28.0	29.8	35.0	36.8	64.8	35.0	29.8	57.8	59.6	56.1	26.3
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.0	7.0	7.0	7.0
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°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1240.6	1251.2	1240.6	1235.4	1235.4	1226.6	1223.1	1223.1	1210.9	1216.1	1212.6
5°	1268.7	1272.2	1259.9	1244.2	1223.1	1205.6	1181.1	1149.5	1130.2	1128.5	1130.2
7.5°	1312.5	1314.2	1280.9	1245.9	1193.3	1130.2	1054.9	993.6	939.2	930.5	941.0
10°	1373.8	1370.3	1321.3	1238.9	1128.5	995.3	879.7	823.6	792.1	790.3	788.5
12.5°	1456.2	1433.4	1358.1	1209.1	1016.3	862.1	802.6	799.1	807.8	814.8	816.6
15°	1550.8	1521.0	1387.8	1151.3	902.4	813.1	816.6	846.4	856.9	863.9	863.9
17.5°	1668.2	1629.7	1421.1	1068.9	844.6	823.6	848.1	876.2	893.7	900.7	898.9
20°	1824.2	1743.6	1447.4	990.1	828.8	841.1	862.1	890.2	907.7	916.5	916.5
22.5°	1980.1	1880.2	1452.7	935.7	828.8	842.9	862.1	890.2	909.5	918.2	916.5
25°	2192.2	2055.5	1454.4	897.2	830.6	834.1	851.6	876.2	904.2	913.0	916.5
27.5°	2418.2	2248.2	1463.2	888.4	823.6	821.8	834.1	856.9	884.9	907.7	909.5
30°	2698.6	2465.5	1466.7	897.2	825.3	802.6	811.3	834.1	863.9	886.7	893.7
32.5°	2973.7	2667.0	1459.7	916.5	828.8	790.3	792.1	806.1	837.6	853.4	865.6
35°	3264.6	2880.8	1447.4	942.8	830.6	785.0	769.3	776.3	797.3	799.1	804.3
37.5°	3492.4	3040.3	1410.6	977.8	834.1	765.8	734.2	729.0	720.2	702.7	706.2
40°	3679.9	3147.2	1349.3	995.3	825.3	743.0	690.4	665.9	632.6	606.3	611.6
42.5°	3814.8	3219.0	1275.7	998.8	811.3	704.4	639.6	597.5	560.7	532.7	534.5
45°	3874.4	3212.0	1196.8	972.5	778.0	657.1	592.3	552.0	511.7	481.9	478.4
47.5°	3876.1	3143.7	1088.2	909.5	722.0	602.8	548.5	504.7	471.4	450.3	448.6
50°	3890.2	3105.1	986.6	818.3	648.4	545.0	509.9	466.1	446.8	417.1	408.3
52.5°	3977.8	3168.2	916.5	718.5	580.0	502.9	476.6	438.1	406.5	387.3	385.5
55°	4119.7	3276.8	877.9	643.1	515.2	462.6	445.1	411.8	383.8	364.5	359.2
57.5°	4137.2	3332.9	832.4	573.0	462.6	431.1	424.1	387.3	347.0	332.9	327.7
60°	*3891.9*	*3238.3*	*776.3*	*508.2*	*424.1*	*406.5*	*403.0*	*354.0*	*320.7*	*303.2*	*296.1*
62.5°	3557.2	3001.7	690.4	448.6	394.3	382.0	368.0	329.4	287.4	268.1	262.8
65°	2907.1	2523.3	587.0	408.3	364.5	350.5	347.0	294.4	266.4	255.8	254.1
67.5°	2202.7	2027.4	516.9	378.5	332.9	327.7	315.4	297.9	285.6	273.4	269.9
70°	1557.8	1463.2	439.8	340.0	301.4	292.6	343.5	324.2	280.4	264.6	262.8
72.5°	944.5	918.2	380.3	304.9	259.3	273.4	317.2	292.6	252.3	233.1	226.0
75°	595.8	545.0	318.9	259.3	206.8	222.5	276.9	261.1	217.3	198.0	192.8
77.5°	324.2	301.4	240.1	212.0	163.0	180.5	241.8	215.5	173.5	189.3	168.2
80°	141.9	157.7	159.5	122.7	108.6	133.2	173.5	168.2	133.2	134.9	112.1
82.5°	68.3	89.4	103.4	84.1	61.3	78.9	115.7	96.4	89.4	84.1	80.6
85°	21.0	33.3	45.6	40.3	28.0	33.3	54.3	52.6	63.1	54.3	50.8
87.5°	7.0	7.0	5.3	5.3	5.3	7.0	8.8	5.3	1.8	1.8	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1210.9	1212.6	1212.6	1214.4	1214.4	1219.6	1226.6	1233.6	1228.4	1235.4	1237.1
5°	1126.7	1135.5	1142.5	1168.8	1189.8	1207.4	1226.6	1244.2	1249.4	1252.9	1261.7
7.5°	928.7	953.3	998.8	1058.4	1125.0	1189.8	1233.6	1279.2	1286.2	1295.0	1307.2
10°	790.3	800.8	832.4	893.7	1012.8	1140.8	1247.7	1319.5	1349.3	1366.8	1379.1
12.5°	813.1	806.1	800.8	809.6	886.7	1051.4	1238.9	1377.3	1433.4	1452.7	1468.4
15°	867.4	860.4	841.1	816.6	825.3	956.8	1209.1	1431.6	1521.0	1552.6	1585.9
17.5°	898.9	891.9	876.2	849.9	827.1	877.9	1153.0	1480.7	1659.5	1698.0	1745.3
20°	916.5	909.5	893.7	867.4	841.1	848.1	1081.2	1542.0	1817.2	1878.5	1948.6
22.5°	920.0	911.2	893.7	867.4	851.6	846.4	1012.8	1578.8	1987.1	2081.8	2162.4
25°	918.2	902.4	879.7	860.4	851.6	849.9	965.5	1599.9	2171.1	2321.8	2413.0
27.5°	906.0	886.7	863.9	849.9	846.4	856.9	944.5	1624.4	2386.7	2579.4	2724.9
30°	891.9	863.9	835.9	830.6	839.4	872.7	962.0	1633.2	2612.7	2859.8	3008.7
32.5°	855.1	834.1	806.1	804.3	825.3	884.9	1002.3	1620.9	2812.5	3140.2	3327.7
35°	802.6	790.3	774.5	779.8	813.1	895.4	1030.4	1582.3	2994.7	3401.3	3620.3
37.5°	709.7	718.5	727.2	739.5	781.5	893.7	1042.6	1521.0	3145.4	3609.8	3890.2
40°	606.3	636.1	664.1	695.7	751.7	879.7	1046.1	1445.7	3233.0	3767.5	4130.2
42.5°	541.5	569.5	604.6	650.1	711.4	848.1	1042.6	1361.6	3261.1	3876.1	4282.7
45°	481.9	515.2	559.0	606.3	676.4	802.6	1011.1	1270.4	3275.1	3927.0	4347.5
47.5°	450.3	469.6	509.9	557.2	630.8	746.5	949.8	1203.8	3254.1	3937.5	4426.4
50°	413.5	439.8	466.1	511.7	583.5	676.4	876.2	1165.3	3289.1	4040.9	4550.8
52.5°	385.5	399.5	427.6	469.6	522.2	611.6	806.1	1133.8	3385.5	4146.0	4680.5
55°	364.5	380.3	397.8	432.8	473.1	546.7	734.2	1086.4	3497.6	4258.2	4810.1
57.5°	331.2	341.7	366.2	403.0	429.3	483.6	650.1	1030.4	3488.9	4170.5	4585.8
60°	*301.4*	*311.9*	*338.2*	*375.0*	*390.8*	*427.6*	*567.8*	*958.5*	*3320.7*	*3884.9*	*4172.3*
62.5°	268.1	280.4	311.9	338.2	352.2	380.3	481.9	827.1	2970.2	3455.6	3688.6
65°	254.1	261.1	282.1	313.7	311.9	338.2	406.5	650.1	2390.2	2640.8	2852.8
67.5°	269.9	280.4	276.9	285.6	280.4	294.4	364.5	522.2	1878.5	1988.9	2111.6
70°	266.4	290.9	303.2	285.6	245.3	261.1	315.4	417.1	1344.0	1333.5	1328.3
72.5°	233.1	257.6	292.6	310.2	240.1	217.3	273.4	361.0	862.1	858.6	776.3
75°	198.0	215.5	257.6	280.4	206.8	175.2	234.8	306.7	515.2	522.2	466.1
77.5°	182.2	173.5	215.5	247.1	168.2	134.9	189.3	231.3	283.9	287.4	266.4
80°	131.4	126.2	161.2	180.5	127.9	96.4	106.9	143.7	152.5	136.7	141.9
82.5°	84.1	85.9	96.4	115.7	78.9	52.6	73.6	96.4	82.4	66.6	78.9
85°	54.3	61.3	50.8	59.6	24.5	24.5	31.5	42.1	28.0	19.3	21.0
87.5°	0.0	0.0	3.5	7.0	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: P1501545
CATALOG NUMBER: GSS-SB2A-835-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1237.1	1237.1	*1237.1*	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1242.4	1240.6	*1240.6*	1244.2	1252.9	1256.4	1261.7	1259.9	1265.2	1261.7
5°	1266.9	1268.7	*1273.9*	1275.7	1280.9	1288.0	1289.7	1288.0	1291.5	1291.5
7.5°	1316.0	1323.0	*1319.5*	1328.3	1321.3	1312.5	1298.5	1288.0	1279.2	1282.7
10°	1398.4	1394.9	*1393.1*	1377.3	1345.8	1300.2	1263.4	1223.1	1216.1	1209.1
12.5°	1489.5	1486.0	*1486.0*	1431.6	1342.3	1247.7	1163.5	1100.5	1079.4	1077.7
15°	1617.4	1594.6	*1573.6*	1459.7	1280.9	1119.7	1021.6	972.5	960.3	960.3
17.5°	1776.9	1717.3	*1682.2*	1438.7	1181.1	1035.6	977.8	965.5	962.0	970.8
20°	1974.9	1824.2	*1773.4*	1391.3	1144.3	1046.1	1018.1	1019.9	1021.6	1033.9
22.5°	2192.2	1922.3	*1838.2*	1391.3	1181.1	1112.7	1098.7	1118.0	1123.2	1133.8
25°	2434.0	2009.9	*1896.0*	1464.9	1289.7	1238.9	1221.4	1240.6	1254.7	1272.2
27.5°	2705.6	2101.0	*1995.9*	1598.1	1429.9	1398.4	1379.1	1387.8	1407.1	1428.1
30°	2949.2	2253.5	*2148.4*	1801.4	1620.9	1582.3	1549.1	1563.1	1584.1	1598.1
32.5°	3164.7	2439.2	*2349.9*	2015.2	1839.9	1773.4	1736.6	1733.0	1775.1	1764.6
35°	3362.7	2658.3	*2572.4*	2258.7	2062.5	1980.1	1931.1	1994.1	1966.1	1976.6
37.5°	3518.7	2886.1	*2817.7*	2491.8	2293.8	2181.6	2151.9	2229.0	2272.8	2285.0
40°	3646.6	3084.1	*3012.2*	2723.1	2505.8	2423.5	2470.8	2598.7	2593.4	2588.2
42.5°	3744.7	3254.1	*3175.2*	2898.3	2709.1	2724.9	2761.7	2847.5	2868.6	2838.8
45°	3788.5	3361.0	*3297.9*	3036.8	2940.4	3031.5	3047.3	3084.1	3070.1	3050.8
47.5°	3839.3	3455.6	*3389.0*	3162.9	3191.0	3280.4	3248.8	3219.0	3168.2	3138.4
50°	3925.2	3567.7	*3511.7*	3346.9	3448.6	3418.8	3296.1	3229.5	3126.1	3091.1
52.5°	4088.2	3779.8	*3737.7*	3637.8	3569.5	3397.8	3248.8	3129.7	3014.0	2966.7
55°	4233.6	4067.1	*4042.6*	3909.4	3532.7	3287.4	3087.6	2903.6	2705.6	2665.3
57.5°	4317.7	4543.8	*4571.8*	4025.1	3364.5	3036.8	2742.4	2448.0	2260.5	2227.2
60°	*4067.1*	*5059.0*	*5073.0*	*4002.3*	*3061.3*	*2584.7*	*2136.1*	*1927.6*	*1726.0*	*1668.2*
62.5°	3721.9	4952.1	*4939.8*	3865.6	2437.5	1885.5	1622.7	1524.5	1368.6	1321.3
65°	3199.7	4125.0	*4139.0*	3339.9	1620.9	1363.3	1363.3	1238.9	1065.4	1032.1
67.5°	2607.5	3180.5	*3148.9*	2165.9	995.3	1091.7	1144.3	965.5	722.0	681.7
70°	1694.5	2428.7	*2384.9*	1249.4	625.6	909.5	900.7	725.5	516.9	488.9
72.5°	729.0	1403.6	*1493.0*	637.8	471.4	732.5	718.5	508.2	345.2	332.9
75°	439.8	706.2	*769.3*	406.5	343.5	552.0	497.7	322.4	234.8	226.0
77.5°	278.6	387.3	*383.8*	304.9	257.6	373.2	334.7	222.5	159.5	152.5
80°	161.2	191.0	*198.0*	191.0	173.5	266.4	213.8	161.2	124.4	115.7
82.5°	103.4	119.2	*120.9*	92.9	96.4	171.7	115.7	94.6	71.8	64.8
85°	45.6	50.8	*49.1*	31.5	31.5	70.1	40.3	38.6	28.0	28.0
87.5°	1.8	3.5	*1.8*	1.8	1.8	7.0	3.5	5.3	5.3	5.3
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

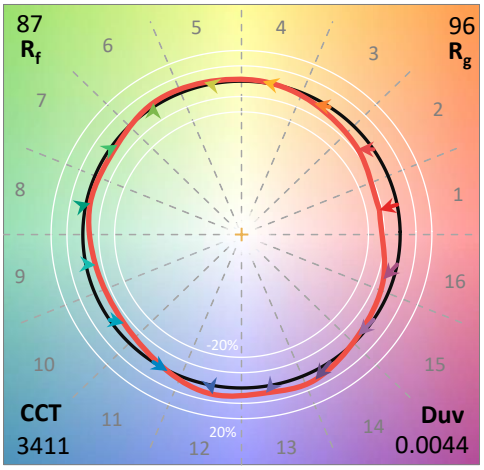
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

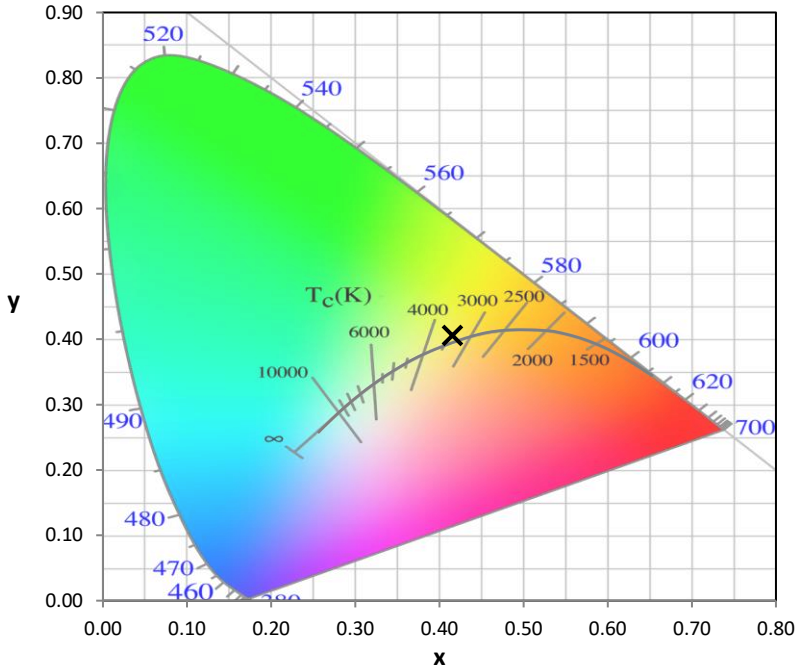
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

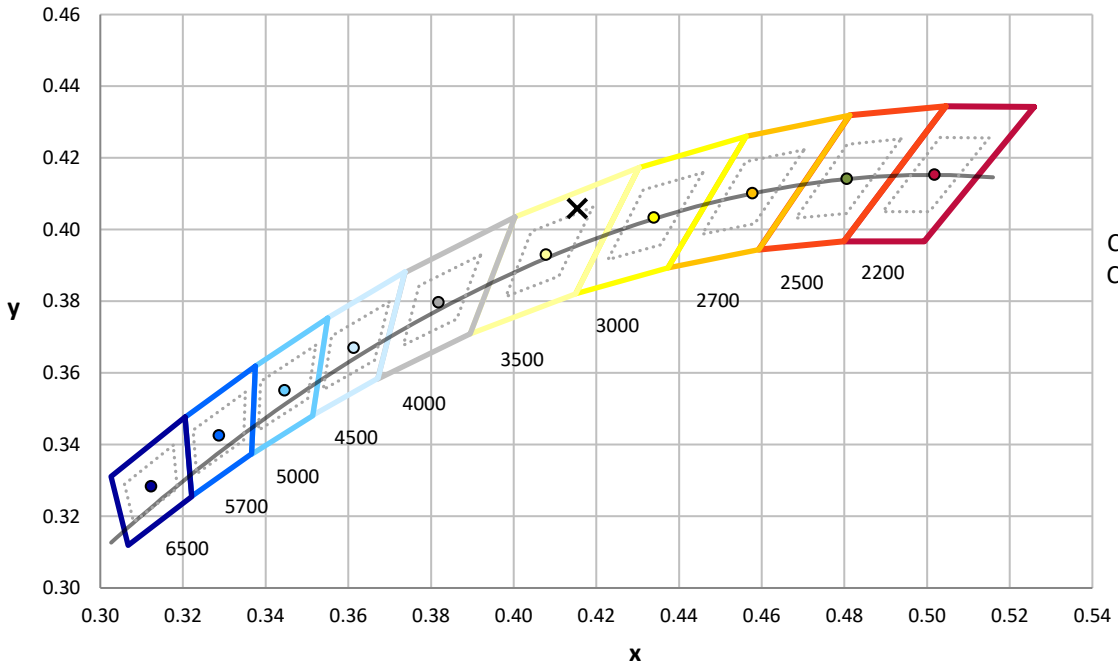
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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

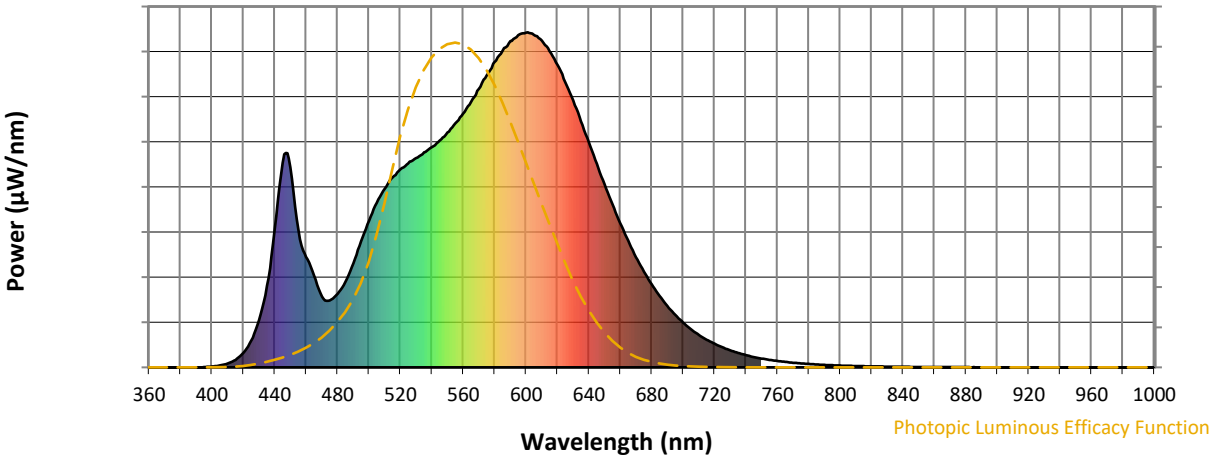


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

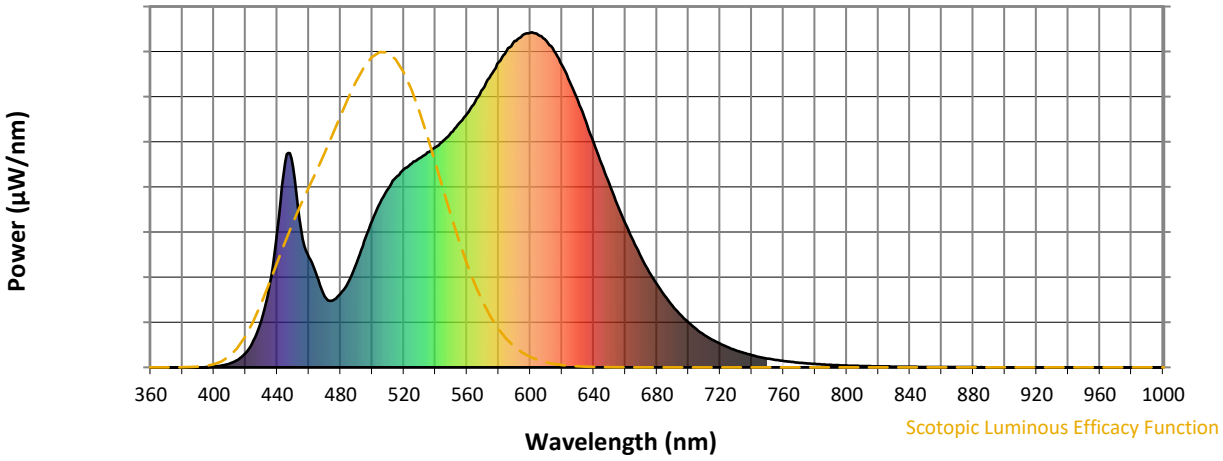


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

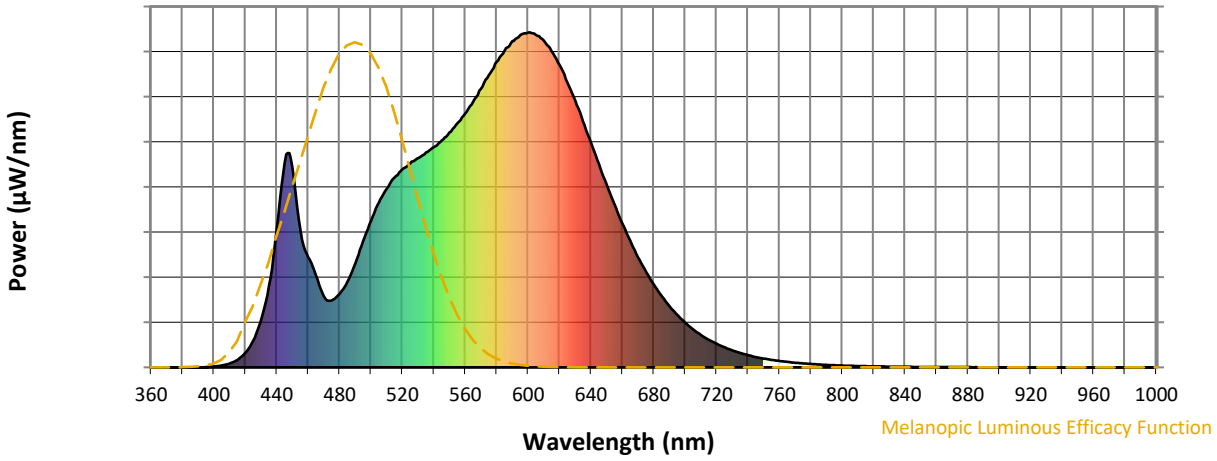


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

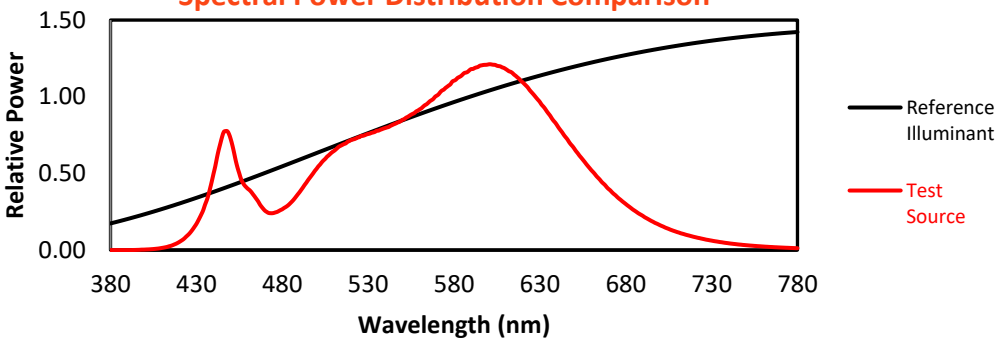
REPORT NUMBER: SP1-2407-184-10

TM-30-18

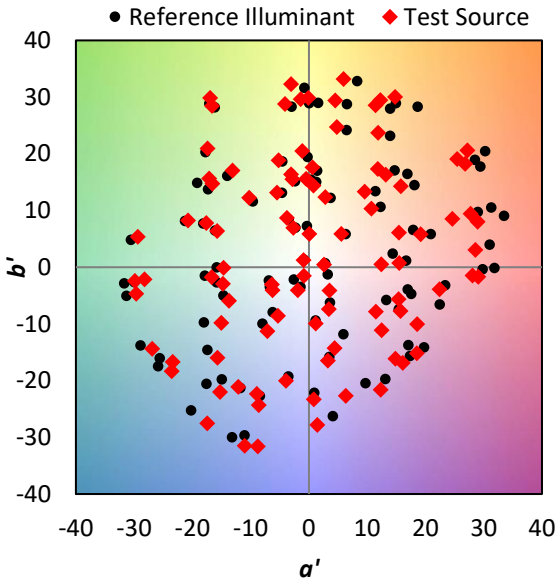
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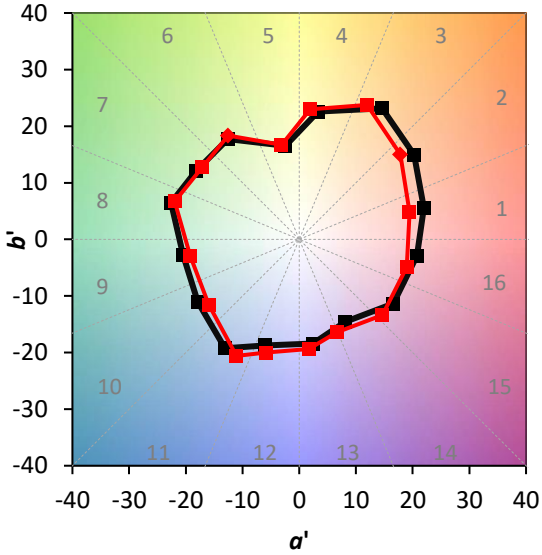
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

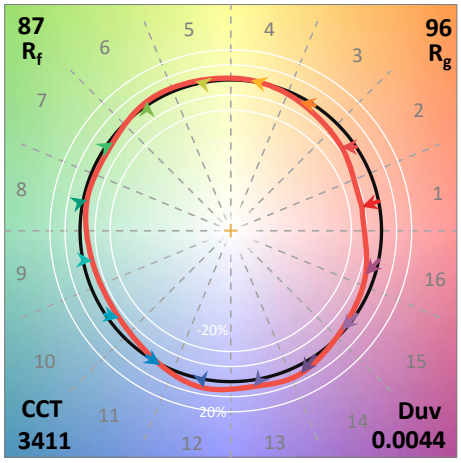
Spectral Power Distribution Comparison

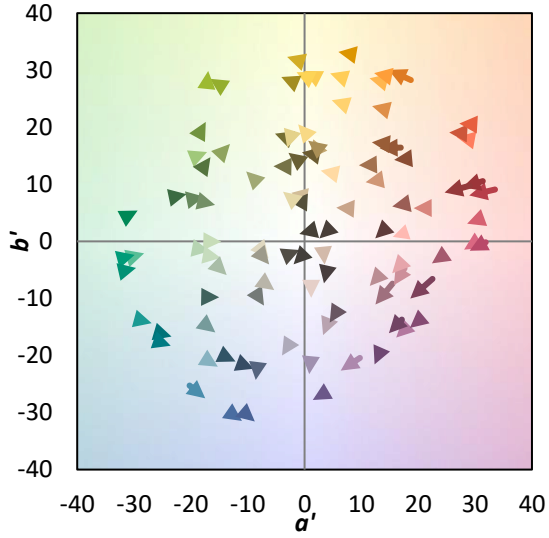


Color Vector Graphics







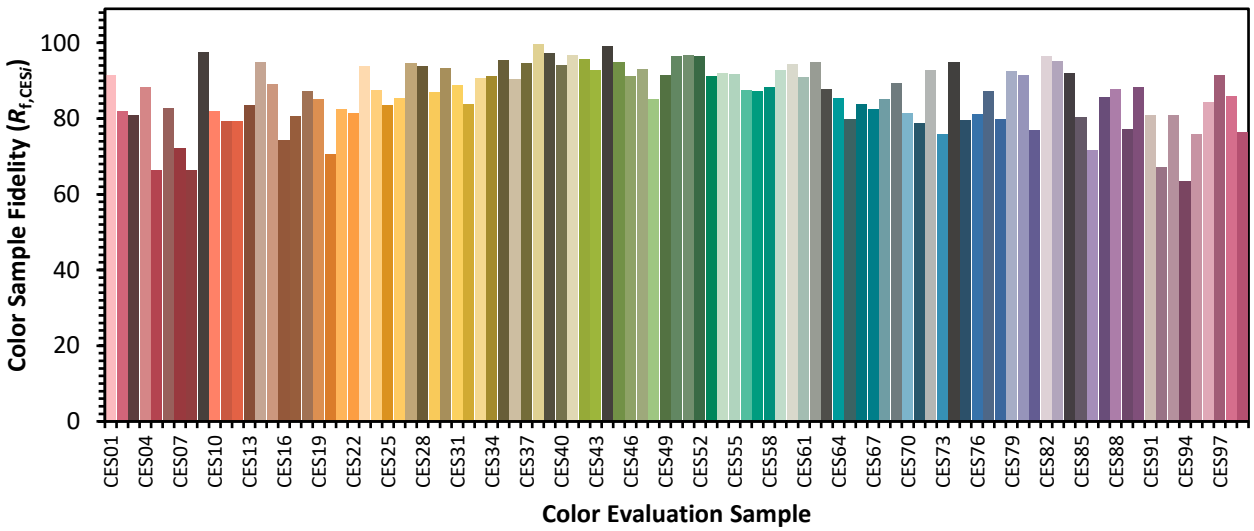


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Individual Sample Fidelity Index ($R_{f,i}$)

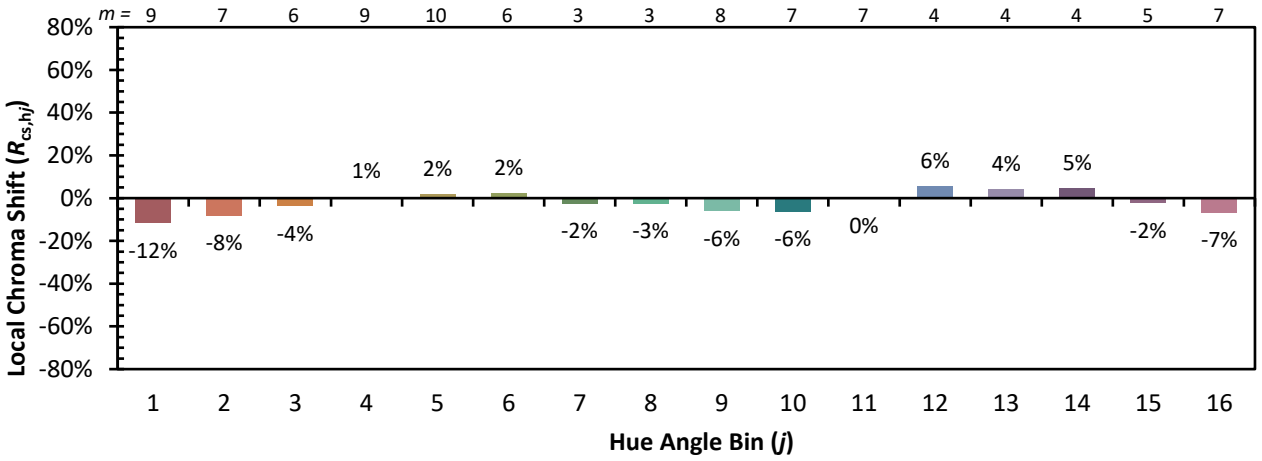
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
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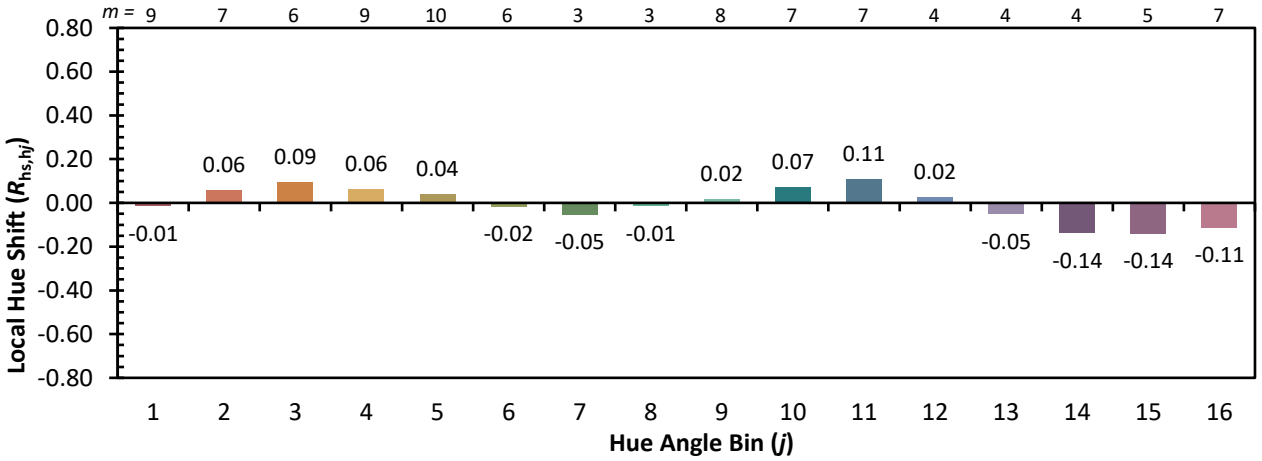


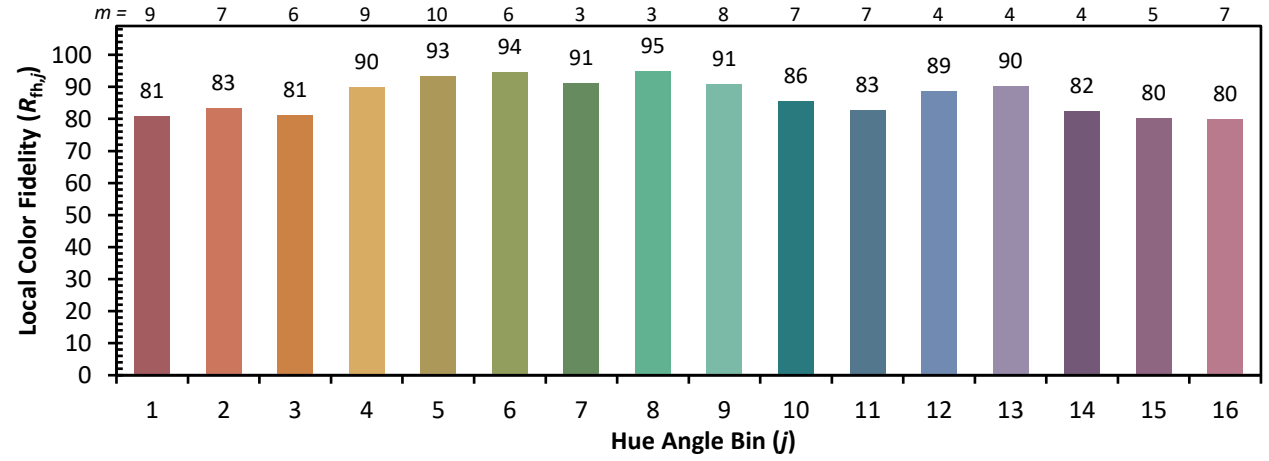
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Color Rendition by Hue-Angle Bin



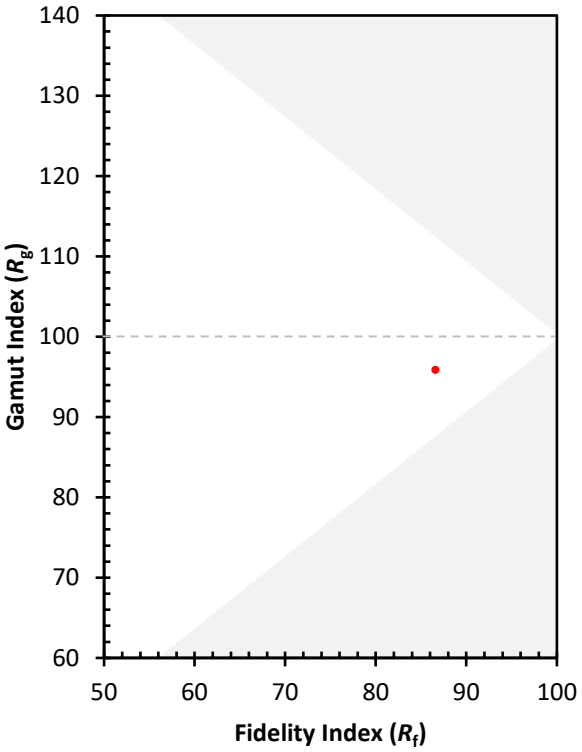


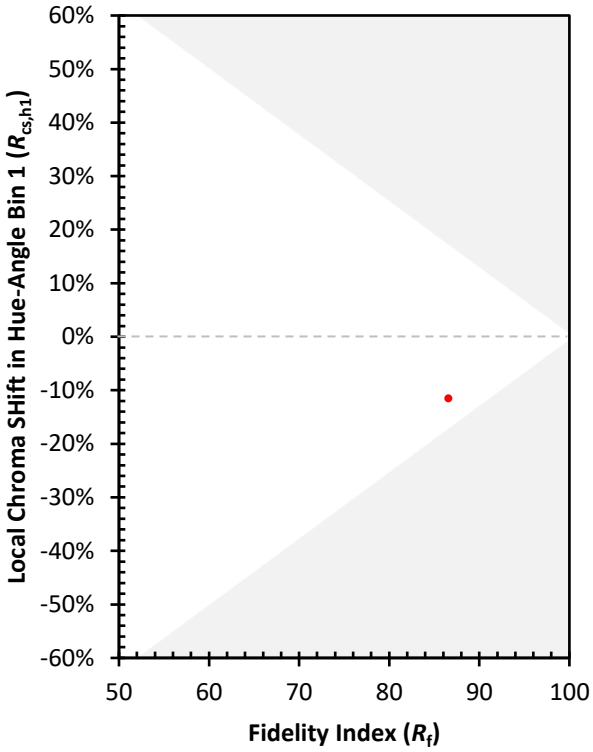


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Measure Comparisons





(END OF REPORT)