Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633532

Luminaire Tested: GWS-SA2E-830-U-SLL-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P633532
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-SLL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10863.5 lumens
Efficiency:	N/A
Efficacy:	100.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	108.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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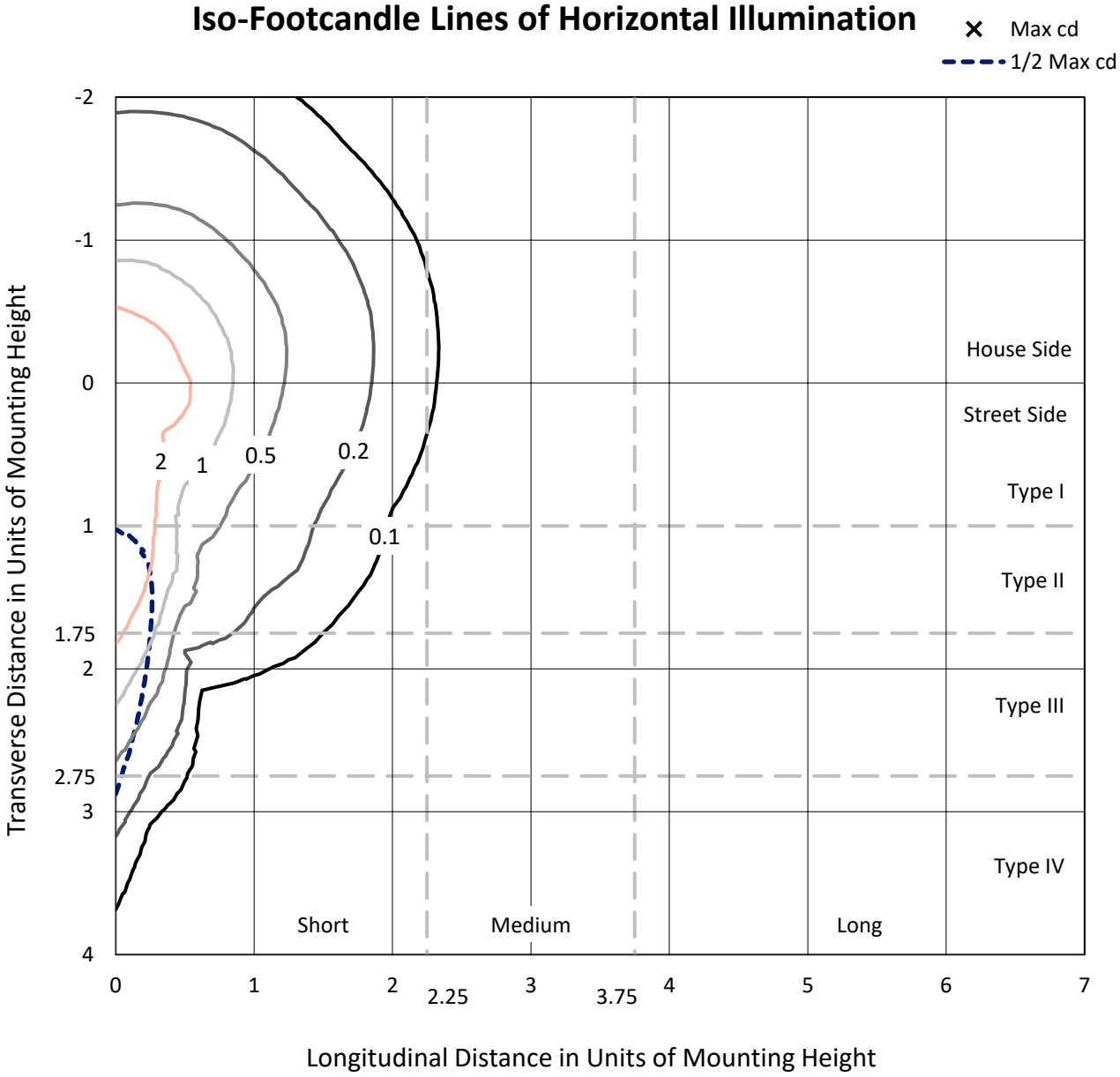
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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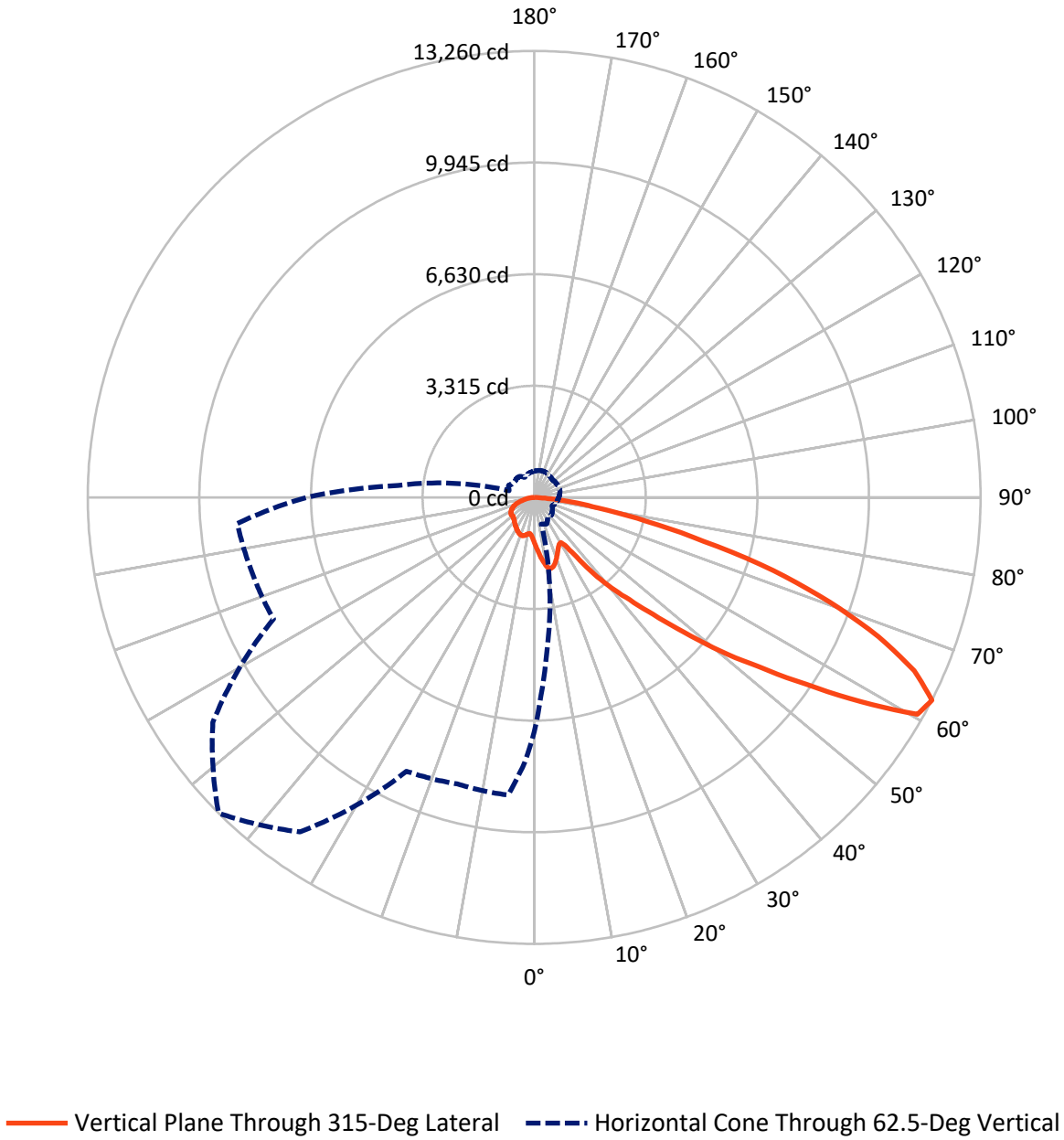
Luminous Intensity Polar Plot



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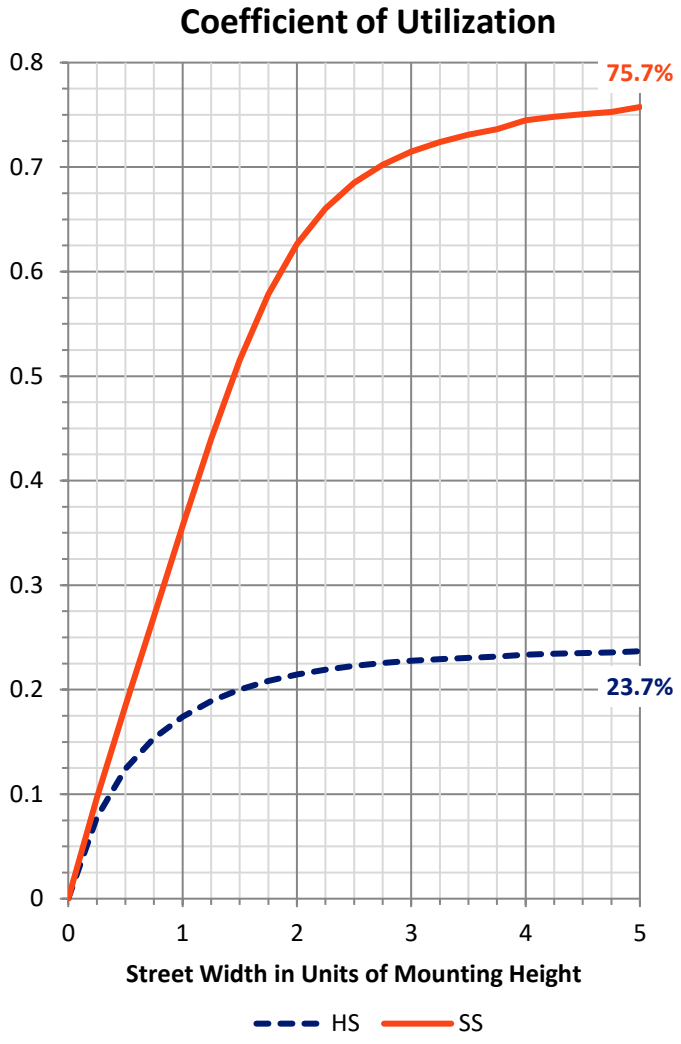
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.5	0.0	2597.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8266.0	0.0	8266.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	10863.5	0.0	10863.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.2
10°-20°	433.7	4.0
20°-30°	682.7	6.3
30°-40°	935.7	8.6
40°-50°	1460.0	13.4
50°-60°	2517.4	23.2
60°-70°	2917.4	26.9
70°-80°	1539.9	14.2
80°-90°	243.3	2.2
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°	10863.5	100.0
0°-180°	10863.5	100.0



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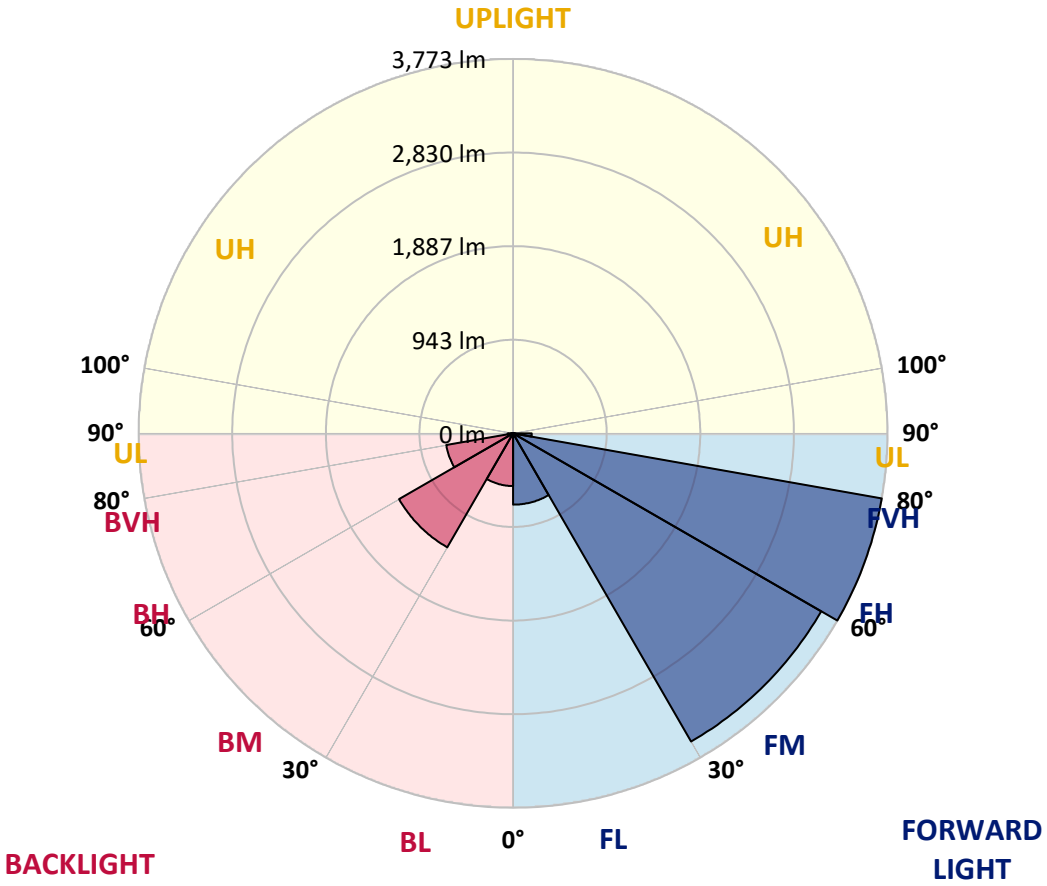
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	718.5	6.6			
FM	(30°-60°)	3586.4	33.0			
FH	(60°-80°)	3773.4	34.7			G2/5000
FVH	(80°-90°)	187.8	1.7			G2/225
BL	(0°-30°)	531.3	4.9	B2/1000		
BM	(30°-60°)	1326.8	12.2	B2/2500		
BH	(60°-80°)	683.9	6.3	B2/1000		G2/1000
BVH	(80°-90°)	55.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1471.6	1465.8	1457.5	1429.2	1411.8	1391.8	1371.1	1347.0	1319.6	1300.4	1281.3
5°	1596.3	1587.1	1567.2	1499.9	1453.3	1402.6	1360.3	1312.1	1264.7	1232.3	1199.9
7.5°	1715.9	1704.3	1673.5	1570.5	1494.9	1421.8	1357.8	1288.0	1217.3	1169.2	1130.9
10°	1835.6	1811.5	1772.4	1637.8	1538.1	1453.3	1380.2	1294.6	1200.7	1135.1	1094.4
12.5°	1927.0	1904.5	1862.2	1699.3	1581.3	1474.9	1392.7	1313.7	1234.0	1164.2	1122.6
15°	2012.6	1983.5	1935.3	1756.6	1617.0	1474.1	1367.7	1298.8	1287.1	1269.7	1215.7
17.5°	2074.1	2047.5	1997.6	1803.2	1637.0	1448.4	1298.8	1258.1	1310.4	1363.6	1312.1
20°	2128.1	2097.3	2046.6	1835.6	1641.1	1391.0	1214.9	1215.7	1297.9	1371.1	1358.6
22.5°	2173.8	2139.7	2094.8	1872.1	1639.5	1311.2	1141.7	1191.6	1273.9	1331.2	1332.8
25°	2230.3	2202.0	2164.6	1926.1	1639.5	1229.8	1088.5	1162.5	1233.1	1281.3	1279.7
27.5°	2299.2	2280.1	2249.4	2008.4	1654.4	1161.7	1058.6	1125.1	1180.8	1222.3	1221.5
30°	2376.5	2359.1	2335.8	2095.7	1680.2	1111.0	1042.0	1078.6	1119.3	1152.5	1152.5
32.5°	2455.5	2448.8	2423.9	2165.5	1660.2	1095.2	1027.9	1032.0	1053.6	1081.1	1078.6
35°	2565.2	2558.5	2526.9	2219.5	1573.8	1072.8	1005.5	984.7	987.2	1004.6	1010.4
37.5°	2725.5	2715.6	2669.0	2282.6	1443.4	1016.3	968.9	934.8	927.3	934.8	945.6
40°	2919.1	2904.2	2841.0	2368.2	1293.0	939.8	911.6	883.3	870.8	873.3	885.8
42.5°	3161.8	3130.2	3039.6	2458.8	1144.2	872.5	847.6	830.1	816.0	814.3	838.4
45°	3555.6	3469.2	3325.5	2539.4	1018.7	836.8	790.2	777.8	766.1	772.8	801.0
47.5°	4243.7	4084.1	3804.1	2608.4	942.3	837.6	744.5	731.2	730.4	743.7	775.3
50°	5189.3	4959.1	4527.0	2654.9	902.4	847.6	717.1	695.5	711.3	724.6	754.5
52.5°	6095.0	5743.5	5229.2	2654.1	885.0	849.2	724.6	662.3	711.3	714.6	742.9
55°	6868.7	6232.1	5418.6	2381.5	860.0	842.6	753.7	636.5	702.2	714.6	737.1
57.5°	7483.6	6542.9	5404.5	1923.7	935.7	806.0	771.1	630.7	675.6	716.3	742.0
60°	7415.4	6400.8	5056.3	1180.8	928.2	741.2	768.6	641.5	630.7	693.8	736.2
62.5°	*6962.6*	*5891.5*	*4457.2*	*819.3*	*871.7*	*703.8*	*727.9*	*660.6*	*589.1*	*661.4*	*708.0*
65°	6328.5	5234.2	3714.4	628.2	722.1	705.5	658.9	647.3	552.6	609.9	659.8
67.5°	5490.1	4419.0	2932.4	497.7	503.6	610.8	598.3	575.0	518.5	564.2	609.1
70°	4127.3	3224.9	2017.6	400.5	381.4	510.2	537.6	516.9	485.3	498.6	545.9
72.5°	2908.3	2105.6	1105.2	317.4	294.2	392.2	467.0	463.7	428.8	438.7	485.3
75°	2161.3	1489.9	690.5	250.9	239.3	280.9	391.4	401.4	372.3	383.9	419.6
77.5°	1438.4	964.7	383.9	186.1	186.1	205.2	291.7	338.2	316.6	325.7	350.7
80°	793.6	491.1	192.0	122.2	125.5	141.3	212.7	243.5	244.3	266.7	273.4
82.5°	250.9	156.2	85.6	71.5	67.3	80.6	137.1	174.5	162.9	207.7	191.1
85°	57.3	36.6	15.8	15.8	17.5	26.6	52.4	93.1	118.8	142.9	103.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	36.6	54.0	48.2
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°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1269.7	1253.1	1248.1	1234.0	1232.3	1219.0	1214.0	1214.0	1219.8	1219.8	1225.7
5°	1186.6	1165.8	1154.2	1137.6	1133.4	1123.4	1116.8	1117.6	1125.1	1130.1	1140.1
7.5°	1113.5	1099.4	1091.0	1083.6	1081.9	1080.2	1072.8	1071.9	1074.4	1081.9	1089.4
10°	1082.7	1072.8	1075.3	1081.1	1090.2	1095.2	1088.5	1085.2	1082.7	1087.7	1094.4
12.5°	1112.6	1102.7	1107.7	1117.6	1130.1	1135.1	1132.6	1131.8	1134.3	1153.4	1167.5
15°	1178.3	1159.2	1152.5	1156.7	1166.7	1171.6	1169.2	1172.5	1188.3	1238.1	1273.9
17.5°	1259.7	1213.2	1186.6	1179.1	1183.3	1187.4	1187.4	1195.7	1223.2	1296.3	1341.2
20°	1303.8	1243.1	1198.2	1180.0	1181.6	1185.8	1185.8	1197.4	1228.1	1306.3	1335.3
22.5°	1292.1	1236.5	1181.6	1161.7	1162.5	1165.8	1165.8	1175.8	1203.2	1272.2	1285.5
25°	1246.4	1197.4	1143.4	1125.9	1127.6	1133.4	1131.8	1137.6	1158.3	1214.9	1222.3
27.5°	1191.6	1148.4	1095.2	1081.9	1089.4	1101.0	1091.0	1091.9	1111.0	1158.3	1159.2
30°	1132.6	1096.9	1049.5	1039.5	1053.6	1059.5	1050.3	1050.3	1069.4	1101.8	1101.0
32.5°	1068.6	1046.2	1012.1	1001.3	1017.1	1026.2	1014.6	1016.3	1031.2	1052.8	1044.5
35°	1008.8	997.1	981.4	973.9	983.8	992.2	984.7	988.0	1002.1	1007.9	996.3
37.5°	951.4	949.8	951.4	951.4	953.9	956.4	951.4	959.8	972.2	964.7	951.4
40°	901.6	908.2	924.0	919.9	917.4	919.9	916.5	930.7	943.1	929.8	914.0
42.5°	860.0	872.5	896.6	896.6	891.6	893.3	891.6	909.1	918.2	899.9	882.5
45°	824.3	842.6	873.3	877.5	869.2	869.2	872.5	894.1	897.4	872.5	854.2
47.5°	799.4	821.8	856.7	864.2	851.7	850.9	860.0	883.3	883.3	854.2	833.4
50°	781.9	806.9	848.4	858.4	845.9	842.6	857.5	880.0	875.0	840.1	819.3
52.5°	770.3	796.1	847.6	861.7	853.4	850.1	865.0	880.8	868.3	831.0	809.3
55°	762.8	791.1	850.1	861.7	852.6	846.7	861.7	875.8	869.2	826.0	805.2
57.5°	767.0	795.2	846.7	852.6	841.8	831.8	849.2	869.2	866.7	827.6	806.9
60°	760.3	786.1	828.5	830.1	811.8	796.1	821.8	851.7	851.7	821.8	803.5
62.5°	*729.6*	*755.3*	*792.7*	*794.4*	*773.6*	*756.2*	*786.1*	*821.8*	*821.0*	*796.9*	*777.8*
65°	678.9	703.0	745.4	749.5	728.7	710.5	741.2	774.4	776.9	755.3	738.7
67.5°	623.2	644.8	676.4	693.0	675.6	656.5	684.7	716.3	715.5	689.7	672.2
70°	556.7	576.7	605.8	619.9	609.1	590.8	616.6	633.2	625.7	613.2	601.6
72.5°	491.1	510.2	537.6	537.6	526.0	508.5	516.0	545.9	555.1	545.9	538.5
75°	422.1	438.7	457.9	462.0	436.3	404.7	439.6	465.3	476.1	472.0	462.8
77.5°	351.5	364.0	392.2	384.7	336.5	319.9	348.2	386.4	393.9	391.4	378.9
80°	270.9	278.4	308.3	293.3	255.9	245.1	257.6	287.5	289.2	280.9	265.1
82.5°	182.0	192.0	211.9	182.8	182.0	172.0	162.0	165.4	180.3	178.7	167.9
85°	93.1	98.1	117.2	109.7	93.9	81.4	77.3	82.3	74.0	67.3	58.2
87.5°	39.1	42.4	58.2	32.4	10.0	0.0	0.0	5.0	7.5	10.8	11.6
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°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1239.0	1248.1	1270.5	1298.8	1326.2	1354.5	1385.2	1404.3	1427.6	1457.5	1458.3
5°	1152.5	1173.3	1205.7	1248.9	1293.8	1345.3	1405.1	1455.0	1514.8	1562.2	1581.3
7.5°	1099.4	1129.3	1170.0	1224.8	1283.8	1347.8	1425.9	1509.8	1607.9	1671.0	1708.4
10°	1104.3	1150.0	1190.8	1237.3	1290.5	1359.4	1460.0	1571.3	1691.8	1774.9	1821.4
12.5°	1193.2	1241.4	1234.0	1231.5	1267.2	1351.1	1487.4	1633.7	1780.7	1863.8	1919.5
15°	1305.4	1323.7	1253.1	1199.9	1221.5	1321.2	1502.4	1689.3	1854.7	1956.1	2010.9
17.5°	1362.8	1326.2	1240.6	1160.8	1155.0	1275.5	1509.8	1745.8	1937.8	2039.2	2097.3
20°	1336.2	1283.0	1210.7	1135.1	1093.5	1213.2	1505.7	1790.7	2013.4	2126.4	2173.8
22.5°	1278.8	1232.3	1175.8	1103.5	1043.7	1145.1	1494.9	1835.6	2080.7	2194.5	2236.1
25°	1216.5	1181.6	1135.1	1071.9	1015.4	1085.2	1487.4	1895.4	2158.0	2266.8	2293.4
27.5°	1154.2	1128.4	1090.2	1041.2	1008.8	1043.7	1489.9	1973.5	2257.7	2360.7	2349.9
30°	1092.7	1070.3	1043.7	1022.1	1007.9	1033.7	1483.3	2056.6	2367.4	2462.9	2399.0
32.5°	1034.5	1013.8	997.1	1000.5	1008.8	1037.9	1449.2	2132.2	2467.9	2549.4	2452.1
35°	984.7	963.1	963.1	974.7	1005.5	1023.7	1361.1	2191.2	2579.3	2660.7	2527.8
37.5°	938.1	919.0	931.5	950.6	979.7	985.5	1248.1	2248.6	2741.3	2817.8	2644.9
40°	897.4	878.3	900.8	924.9	939.8	937.3	1133.4	2328.3	2932.4	3011.4	2800.3
42.5°	865.0	847.6	867.5	898.3	900.8	903.2	1049.5	2404.8	3154.3	3254.8	3067.9
45°	838.4	826.0	835.9	866.7	866.7	904.9	997.1	2468.8	3488.3	3666.2	3559.0
47.5°	817.7	810.2	815.2	825.1	841.8	934.8	963.9	2517.8	4096.6	4445.6	4337.6
50°	806.0	798.5	805.2	784.4	834.3	949.8	953.1	2555.2	4898.5	5445.2	5311.5
52.5°	796.1	793.6	797.7	749.5	850.9	939.8	944.8	2505.3	5436.1	6429.1	6561.2
55°	792.7	794.4	774.4	723.8	870.8	906.6	919.9	2148.8	5582.3	7277.5	8097.6
57.5°	794.4	789.4	738.7	726.3	871.7	840.1	955.6	1533.1	5369.6	7646.4	9600.8
60°	788.6	763.6	695.5	748.7	833.4	762.0	929.8	999.6	4808.7	7363.1	9688.1
62.5°	*762.8*	*726.3*	*658.1*	*761.2*	*765.3*	*715.5*	*844.2*	*770.3*	*4060.9*	*6756.5*	*8847.2*
65°	725.4	676.4	626.5	735.4	696.3	693.8	634.8	617.4	3265.6	6034.4	8049.4
67.5°	663.9	614.9	603.3	676.4	626.5	614.9	510.2	511.9	2605.9	5264.9	7247.6
70°	594.1	545.1	554.2	611.6	557.6	511.0	413.0	426.3	1976.8	4386.6	6166.5
72.5°	548.4	482.8	483.6	538.5	490.3	413.8	339.9	351.5	1254.7	3306.4	4902.6
75°	462.8	425.4	407.2	436.3	416.3	322.4	285.8	283.4	743.7	2369.9	3671.2
77.5°	386.4	357.3	348.2	359.8	310.8	238.5	230.2	226.0	421.3	1518.2	2405.6
80°	280.0	272.6	271.7	277.5	239.3	175.3	175.3	176.2	226.9	824.3	1356.1
82.5°	177.8	194.4	172.0	191.1	162.9	124.6	116.3	132.1	130.5	351.5	571.7
85°	74.0	101.4	94.7	100.5	77.3	68.1	73.1	78.9	75.6	135.4	222.7
87.5°	14.1	16.6	18.3	17.5	17.5	21.6	24.1	29.1	29.1	39.1	67.3
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: P633532
CATALOG NUMBER: GWS-SA2E-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1489.9	1514.0	1509.0	1519.8	1505.7	1510.7	1482.4	1474.9	1470.0	1471.6
5°	1642.8	1691.8	1701.0	1719.2	1706.8	1706.8	1656.9	1619.5	1606.2	1596.3
7.5°	1798.2	1868.8	1915.3	1920.3	1913.7	1900.4	1828.1	1760.8	1736.7	1715.9
10°	1936.1	2020.9	2073.2	2098.2	2085.7	2064.9	1975.2	1882.9	1853.9	1835.6
12.5°	2041.7	2116.4	2151.3	2168.0	2166.3	2158.8	2085.7	1986.0	1955.2	1927.0
15°	2109.8	2147.2	2133.9	2133.1	2144.7	2174.6	2152.2	2074.1	2038.3	2012.6
17.5°	2153.8	2118.1	2059.1	2031.7	2056.6	2127.2	2178.8	2134.7	2102.3	2074.1
20°	2169.6	2042.5	1956.9	1906.2	1935.3	2037.5	2164.6	2178.8	2151.3	2128.1
22.5°	2151.3	1950.2	1833.9	1774.1	1802.3	1924.5	2123.1	2214.5	2196.2	2173.8
25°	2106.5	1853.9	1714.3	1660.2	1691.0	1815.6	2049.1	2247.7	2248.6	2230.3
27.5°	2050.8	1764.9	1630.3	1579.6	1609.6	1725.9	1976.8	2276.8	2305.9	2299.2
30°	1994.3	1711.8	1590.4	1554.7	1577.1	1680.2	1902.9	2306.7	2364.9	2376.5
32.5°	1968.5	1737.5	1684.3	1700.1	1671.0	1706.8	1876.3	2349.1	2436.4	2455.5
35°	2002.6	1966.0	2100.6	2163.0	2059.9	1924.5	1910.4	2413.1	2536.9	2565.2
37.5°	2168.0	2455.5	2656.6	2875.9	2697.3	2399.0	2079.0	2521.9	2680.7	2725.5
40°	2527.8	2882.6	3245.7	3529.1	3259.0	2857.6	2399.8	2684.0	2878.4	2919.1
42.5°	2866.8	3283.1	3783.3	4149.8	3799.1	3232.4	2745.5	2956.5	3139.3	3161.8
45°	3199.2	3676.1	4434.0	4943.3	4467.2	3588.9	3098.6	3416.9	3554.8	3555.6
47.5°	3588.9	4119.0	5250.0	5975.4	5353.8	3983.6	3430.2	4145.6	4337.6	4243.7
50°	4055.1	4559.4	6090.1	7176.1	6434.9	4468.9	3851.5	5033.9	5295.7	5189.3
52.5°	4679.1	5044.7	7015.7	8346.9	7613.2	5021.4	4462.2	6207.2	6293.6	6095.0
55°	5557.4	5745.2	8204.0	9792.8	8928.6	5702.0	5355.5	7679.7	7437.9	6868.7
57.5°	7557.5	6853.7	9729.6	11442.2	10416.8	6938.5	7313.2	9303.4	8443.3	7483.6
60°	9231.1	8199.8	11141.4	13079.2	11692.3	8301.2	9151.3	9585.9	8405.9	7415.4
62.5°	8666.8	8543.0	11650.8	13259.5	12127.8	8971.8	8809.8	8873.7	7857.5	6962.6
65°	7604.1	7880.8	11196.3	12404.5	11645.0	8371.0	7968.8	8215.6	7230.1	6328.5
67.5°	6976.7	7180.3	10387.7	11035.9	10767.5	7721.2	7314.9	7136.2	6256.2	5490.1
70°	6335.2	6503.9	9252.7	9318.3	9398.9	6641.0	5981.2	5449.4	4663.3	4127.3
72.5°	5474.3	5483.5	7817.6	7437.0	7589.9	5196.8	4814.5	4074.2	3394.4	2908.3
75°	4592.7	4341.7	6188.1	5198.4	5505.1	4042.6	3997.7	3070.4	2560.2	2161.3
77.5°	3501.6	3208.3	4520.4	3418.5	3866.4	2692.3	3005.6	2082.4	1801.5	1438.4
80°	2350.8	2168.0	2497.8	1929.5	2529.4	1855.5	1960.2	1180.0	1022.9	793.6
82.5°	1239.8	1058.6	1543.9	1144.2	1525.6	1019.6	735.4	364.8	310.8	250.9
85°	480.3	555.9	757.0	407.2	591.6	364.0	212.7	90.6	75.6	57.3
87.5°	93.1	143.8	78.9	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

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: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

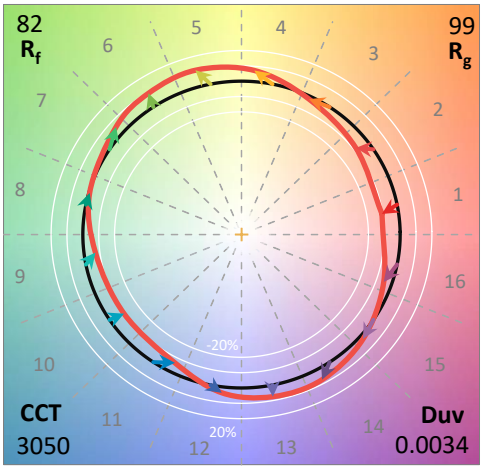
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				
Rf:	81.5				
Rg:	99.2				



Test Conditions

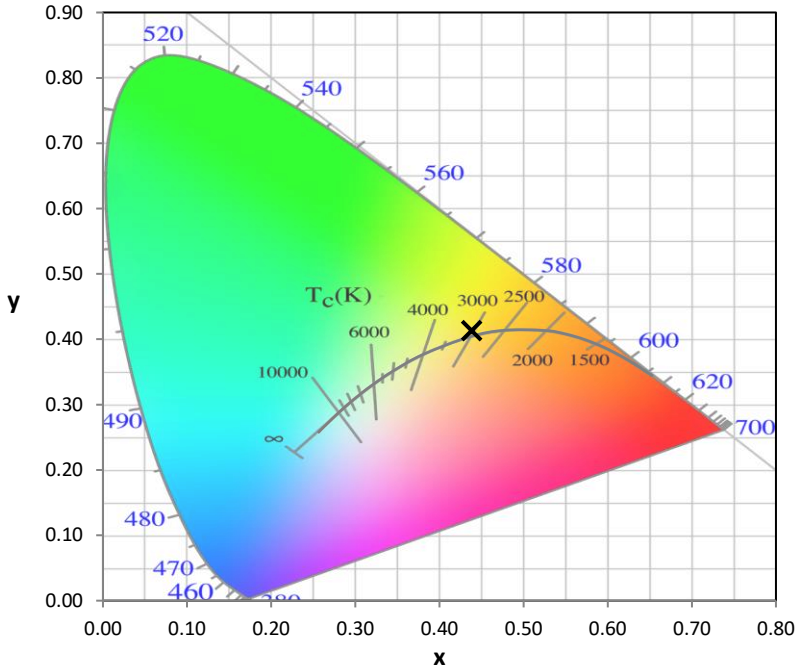
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

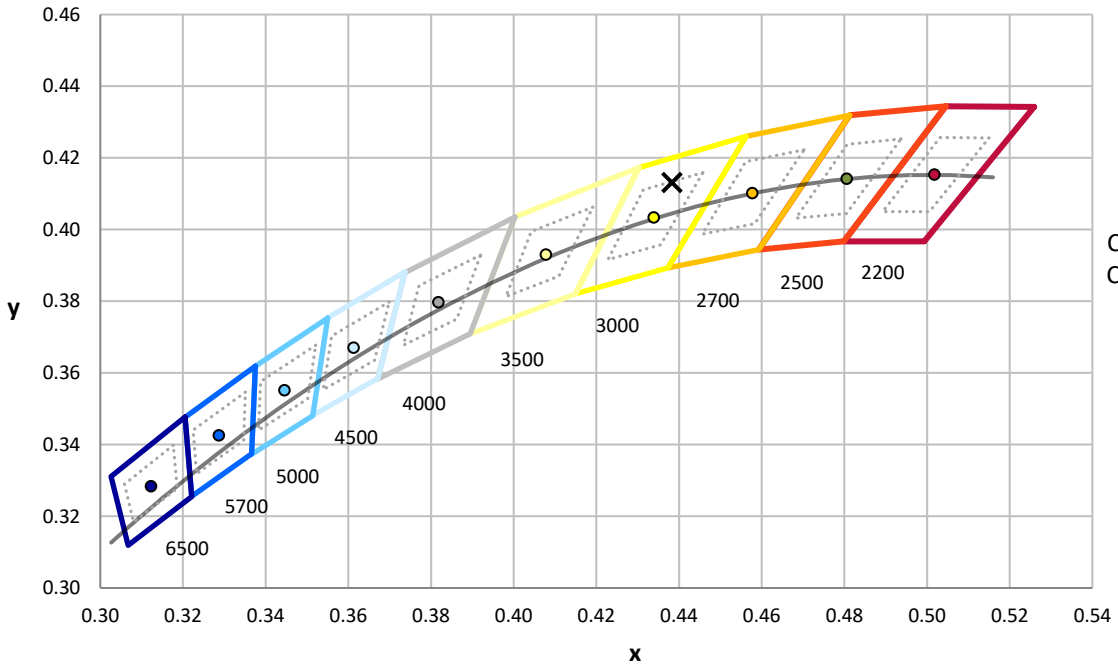
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

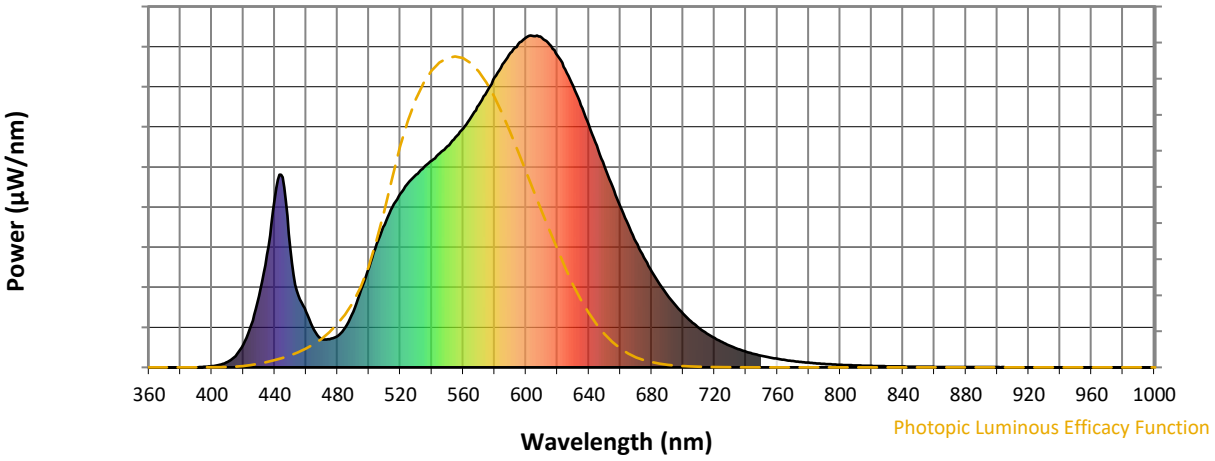


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

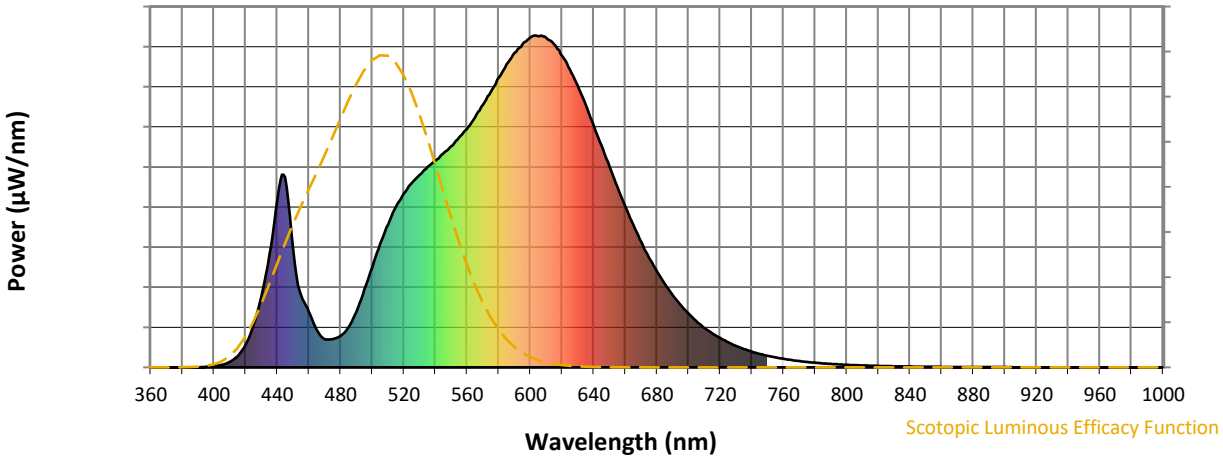


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

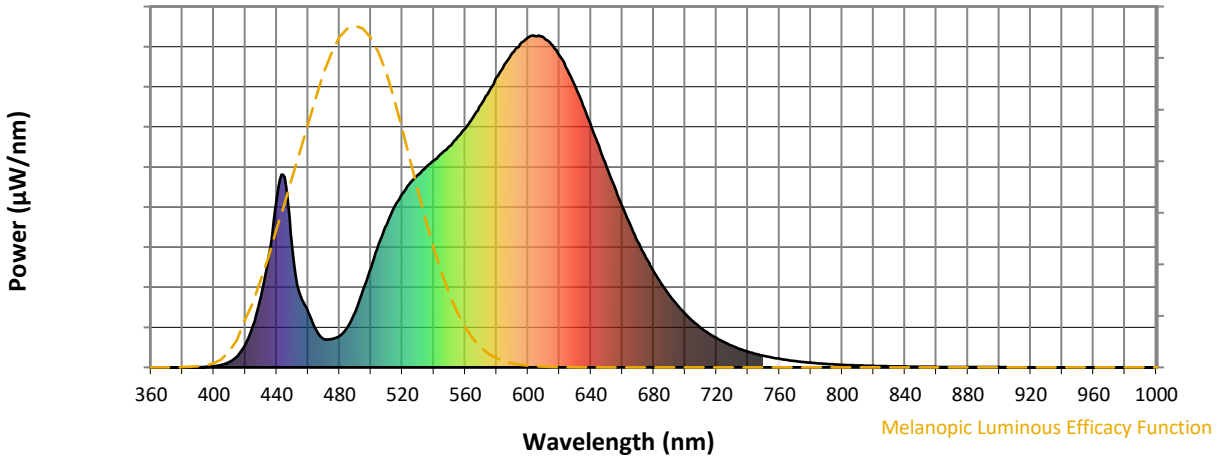


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

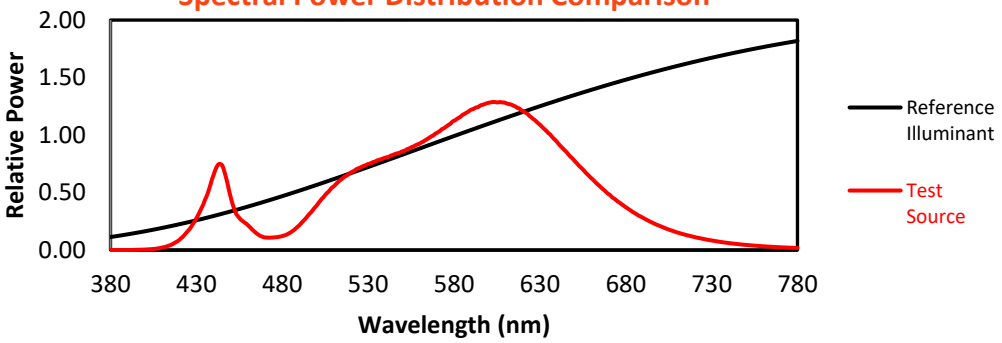
REPORT NUMBER: SP1-2408-195-9

TM-30-18

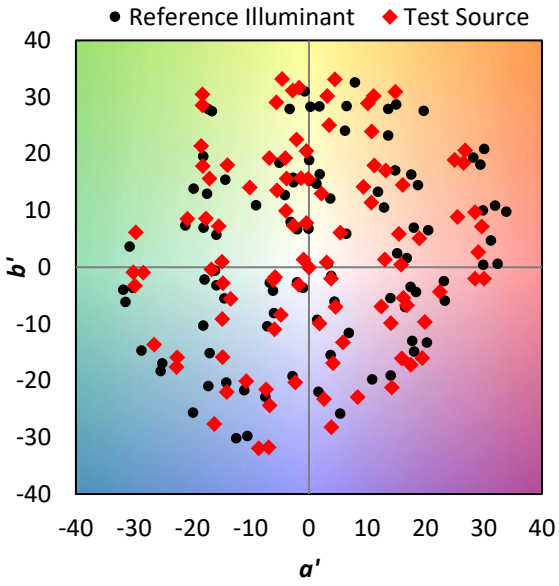
Summary

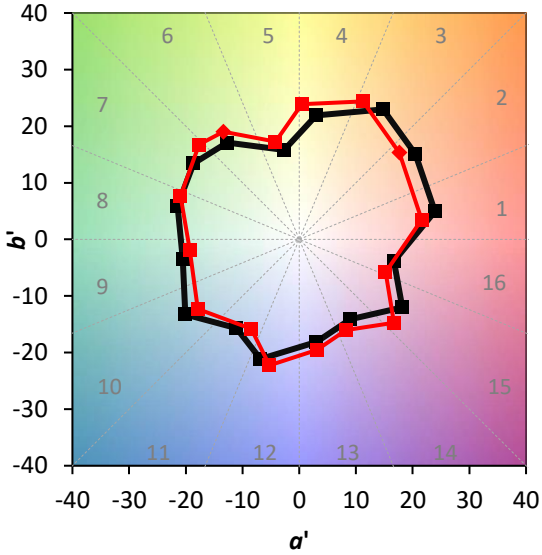
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

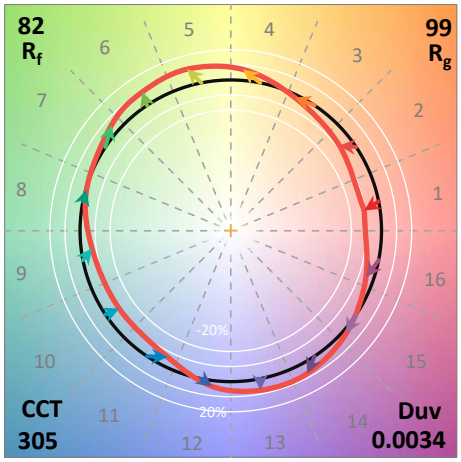
Spectral Power Distribution Comparison

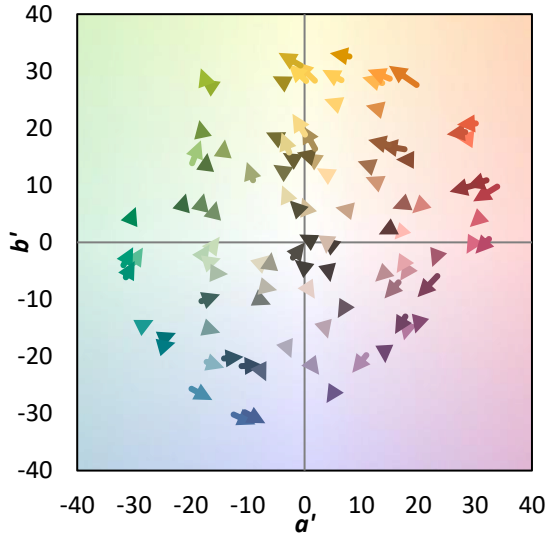


Color Vector Graphics









REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
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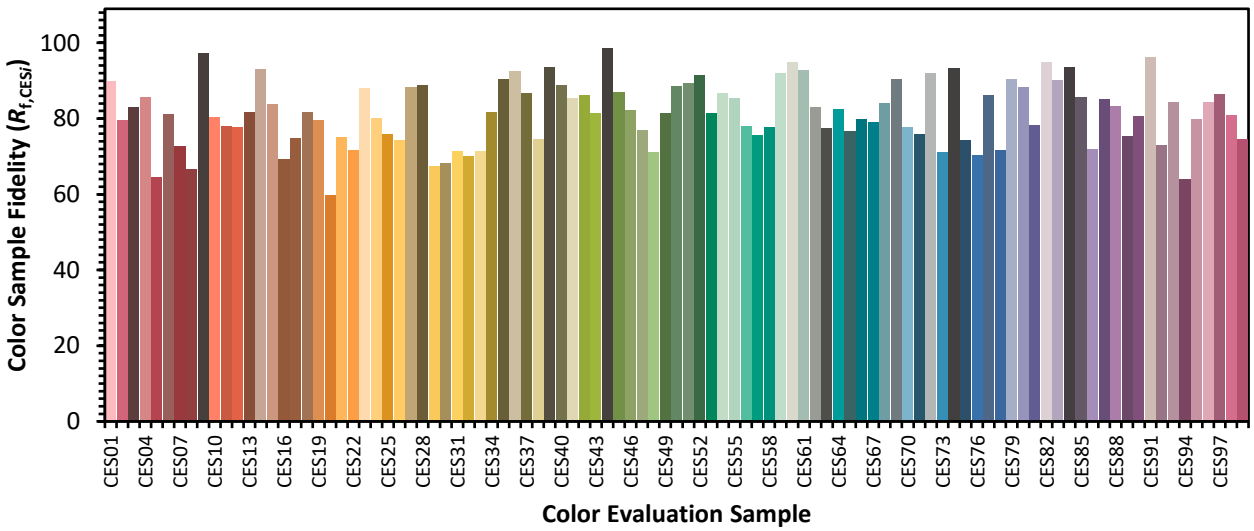

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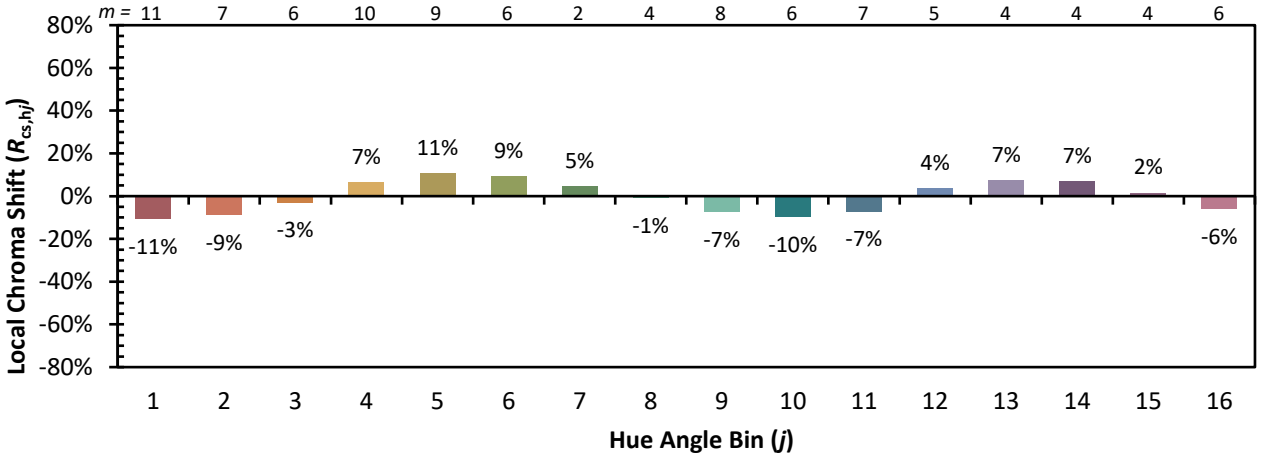
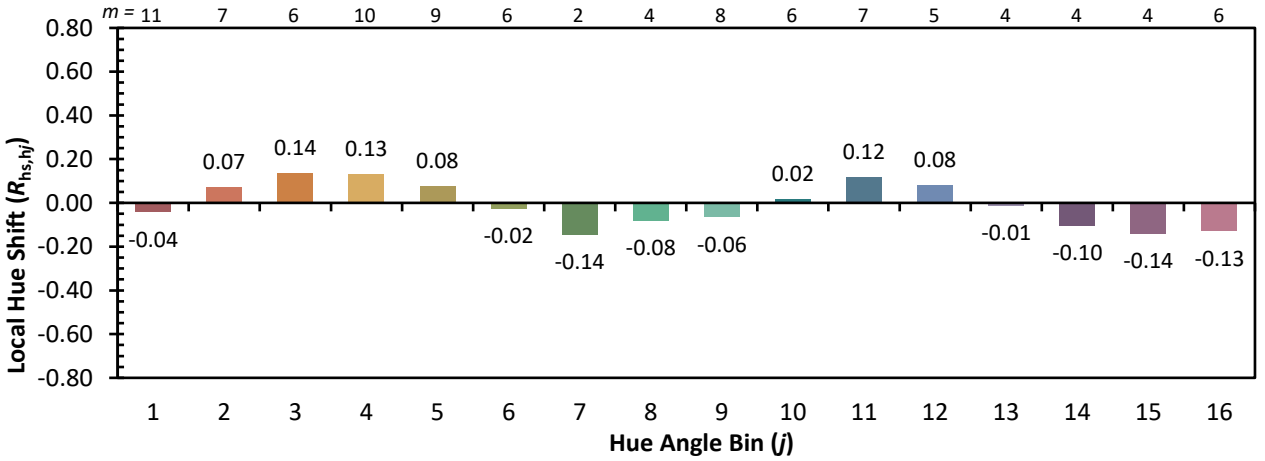
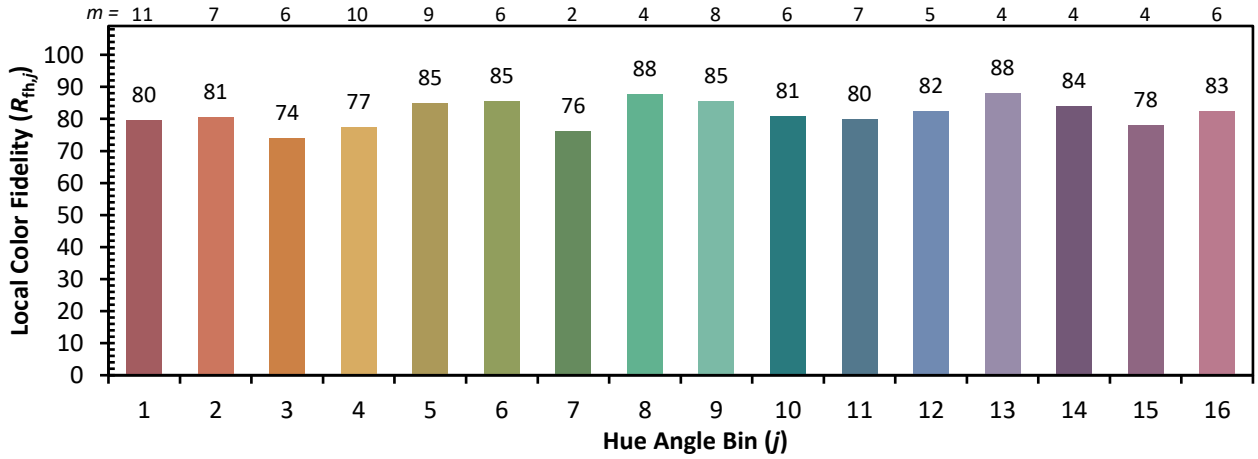
Color Rendition by Hue-Angle Bin







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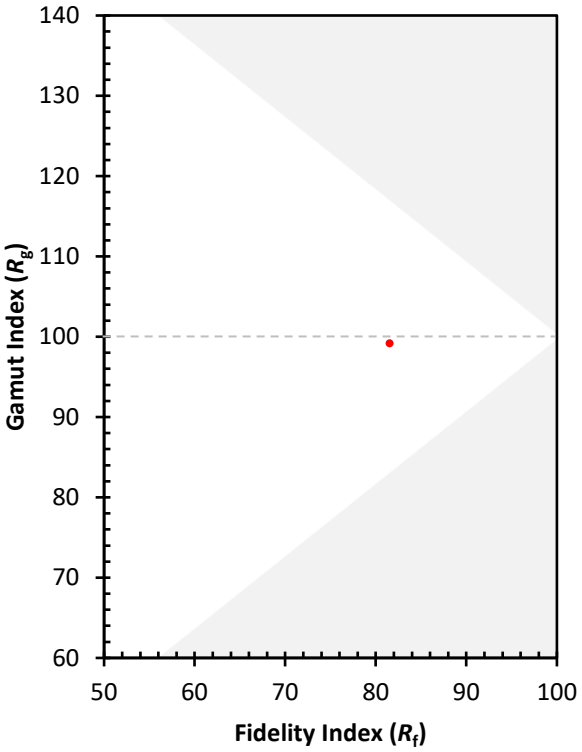
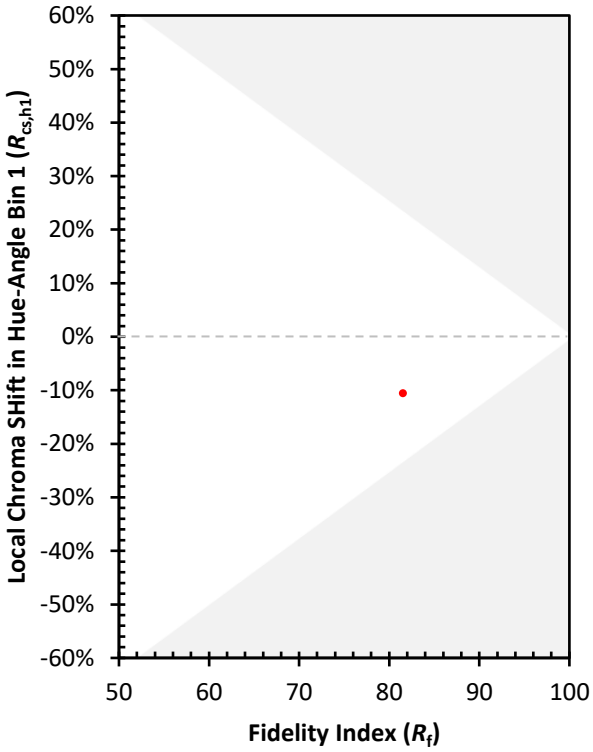
Measure Comparisons





(END OF REPORT)