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: P632546

Luminaire Tested: GWS-SA2C-830-U-SLR-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P632546
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-SLR-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6961.5 lumens
Efficiency:	N/A
Efficacy:	110.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	63.2
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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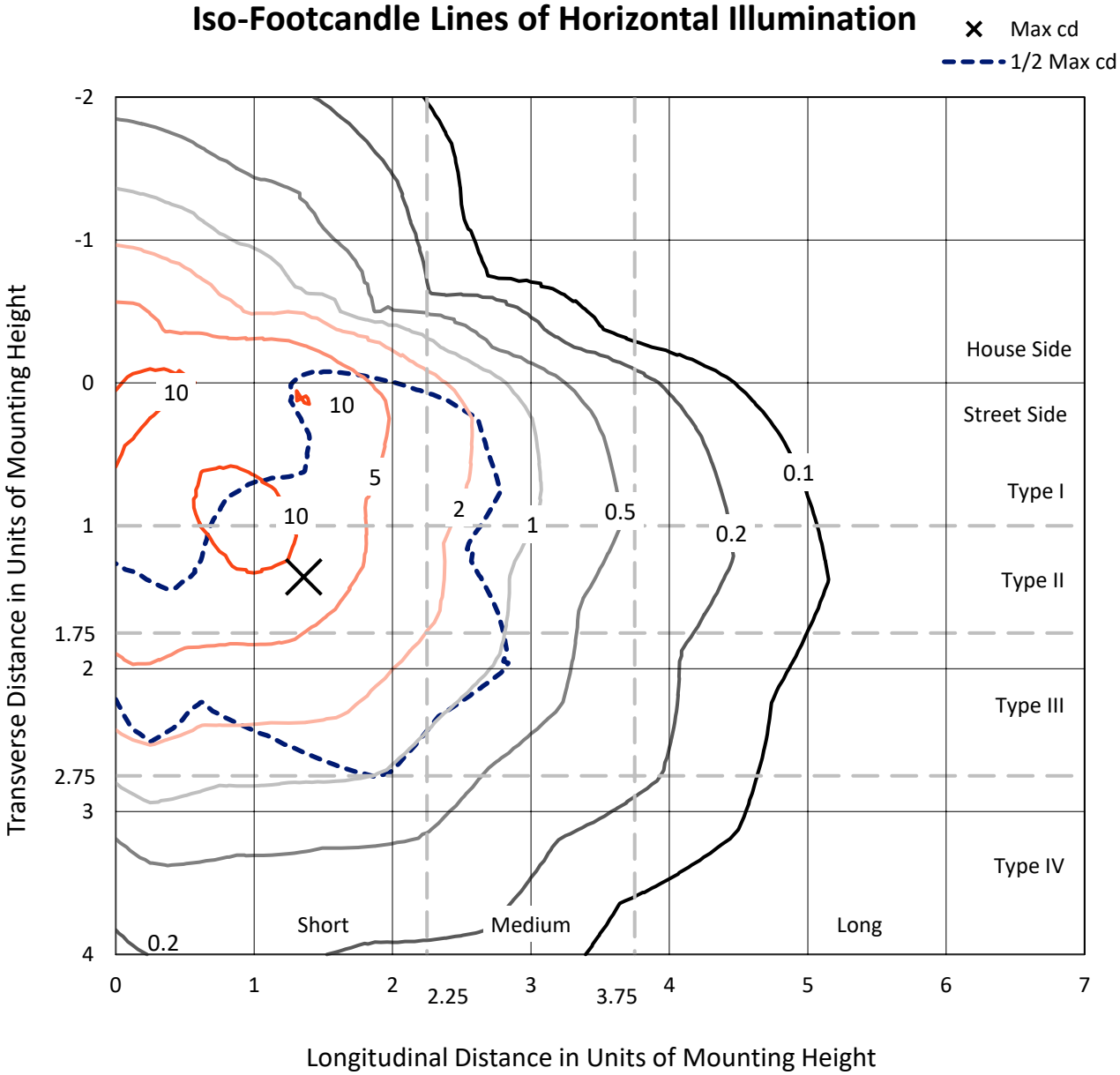
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
Type III - Short - N/A

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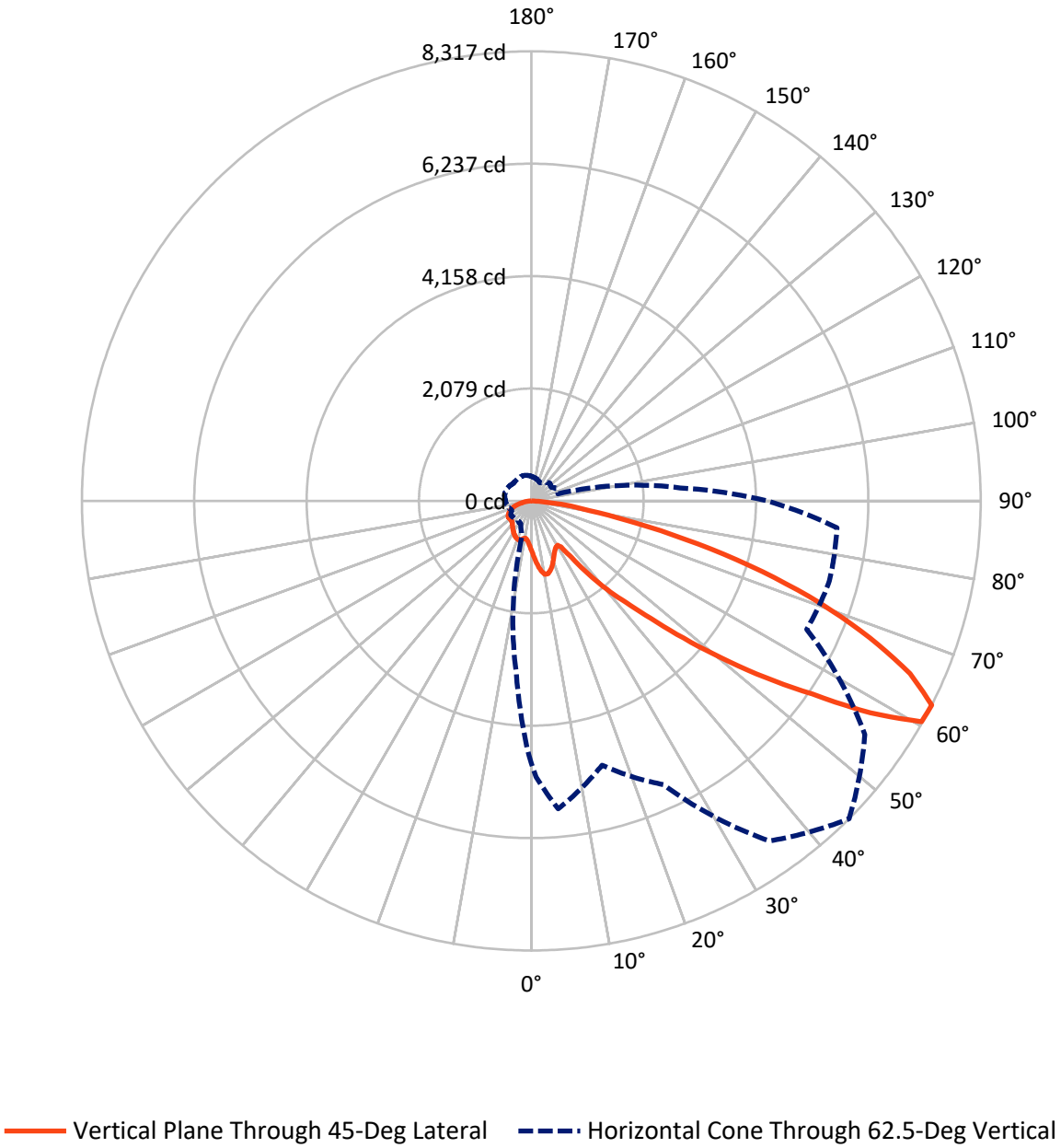
Luminous Intensity Polar Plot



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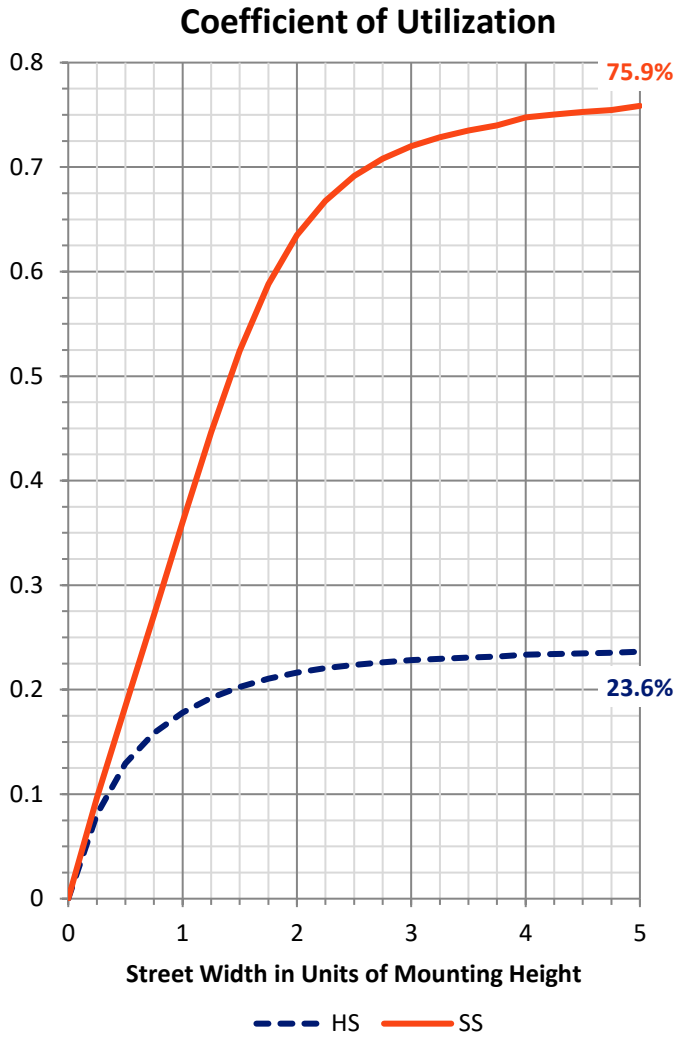
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.1	0.0	1661.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5300.4	0.0	5300.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	6961.5	0.0	6961.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.3
10°-20°	282.9	4.1
20°-30°	439.4	6.3
30°-40°	596.5	8.6
40°-50°	945.5	13.6
50°-60°	1667.8	24.0
60°-70°	1855.7	26.7
70°-80°	941.1	13.5
80°-90°	142.5	2.0
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°	6961.5	100.0
0°-180°	6961.5	100.0



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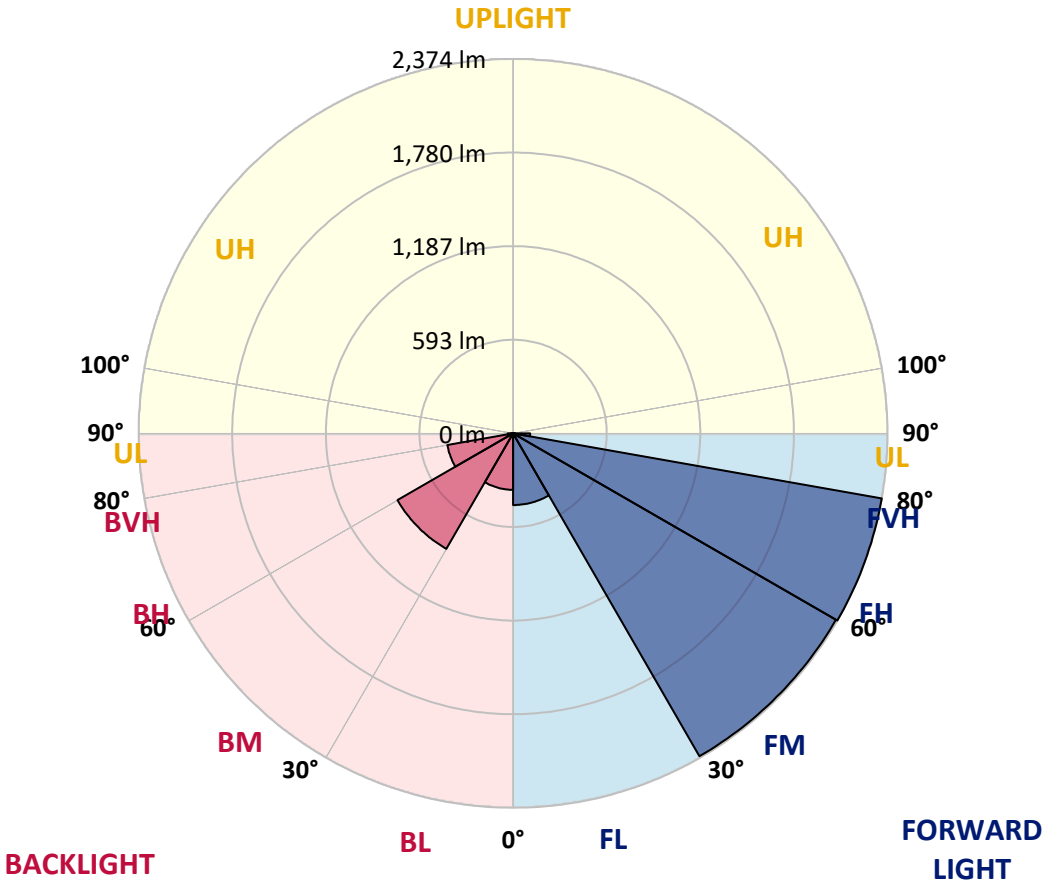
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	454.5	6.5			
FM	(30°-60°)	2363.7	34.0			
FH	(60°-80°)	2373.9	34.1			G2/5000
FVH	(80°-90°)	108.2	1.6			G2/225
BL	(0°-30°)	357.9	5.1	B1/500		
BM	(30°-60°)	846.0	12.2	B1/1000		
BH	(60°-80°)	422.8	6.1	B1/500		G1/500
BVH	(80°-90°)	34.3	0.5			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°	923.9	923.9	923.9	923.9	923.9	923.9	*923.9*	923.9	923.9	923.9	923.9
2.5°	993.0	992.5	1002.5	1017.7	1032.0	1038.3	*1048.8*	1047.8	1039.4	1028.3	1024.6
5°	1071.0	1073.1	1090.5	1124.2	1161.6	1177.4	*1184.3*	1181.7	1166.4	1146.9	1112.6
7.5°	1141.6	1145.3	1172.2	1222.8	1269.2	1290.2	*1307.1*	1303.9	1281.8	1245.4	1194.8
10°	1193.3	1197.5	1229.6	1289.2	1340.8	1359.3	*1380.9*	1381.9	1362.4	1313.4	1261.8
12.5°	1244.9	1249.1	1279.2	1333.5	1367.2	1367.7	*1380.4*	1387.2	1388.3	1365.6	1314.0
15°	1298.7	1302.4	1329.8	1360.3	1358.8	1329.2	*1329.2*	1342.4	1371.4	1387.7	1351.9
17.5°	1344.5	1349.3	1370.4	1360.3	1313.4	1260.2	*1253.9*	1270.7	1321.3	1384.1	1380.4
20°	1382.5	1386.2	1397.8	1331.3	1246.0	1176.4	*1164.3*	1183.8	1252.3	1361.4	1402.0
22.5°	1418.8	1420.9	1414.6	1293.4	1173.2	1093.6	*1078.9*	1099.4	1173.2	1321.3	1420.4
25°	1462.1	1460.0	1429.9	1253.9	1106.8	1028.3	*1013.0*	1036.2	1113.1	1268.1	1440.5
27.5°	1512.1	1504.2	1443.1	1211.2	1055.7	979.8	*969.3*	994.0	1065.7	1219.1	1456.3
30°	1554.8	1539.5	1445.2	1173.2	1029.3	959.2	*952.9*	976.1	1042.5	1185.9	1476.3
32.5°	1602.3	1581.2	1457.3	1163.2	1044.1	1008.8	*1017.2*	1018.8	1048.8	1176.4	1506.3
35°	1670.2	1642.8	1490.5	1192.2	1195.9	1255.5	*1286.0*	1244.9	1144.2	1197.5	1563.3
37.5°	1773.0	1738.2	1558.0	1317.6	1509.5	1642.8	*1716.6*	1622.8	1434.1	1277.1	1649.2
40°	1897.9	1853.7	1644.4	1549.6	1802.5	2016.0	*2147.2*	2009.7	1732.4	1475.8	1769.9
42.5°	2072.4	2026.0	1812.0	1777.2	2074.0	2391.8	*2563.1*	2358.1	1995.4	1732.4	1963.3
45°	2376.5	2331.7	2119.3	2005.5	2391.8	2854.5	*3094.9*	2809.7	2262.7	1990.2	2324.9
47.5°	2938.4	2885.6	2575.7	2258.4	2754.4	3455.4	*3791.7*	3376.3	2540.4	2285.3	2932.0
50°	3613.0	3562.4	3148.6	2557.8	3155.0	4097.9	*4565.4*	4042.0	2860.3	2644.3	3657.8
52.5°	4424.7	4415.2	3966.1	2936.2	3571.9	4783.1	*5424.0*	4779.4	3210.8	3127.6	4480.0
55°	5156.2	5249.0	5004.4	3513.4	4110.5	5643.7	*6306.8*	5583.7	3686.2	3926.6	5442.9
57.5°	5550.5	5799.7	6175.5	4690.8	4893.7	6672.6	*7396.2*	6565.6	4503.2	5256.9	6335.8
60°	5290.1	5572.6	6253.5	5577.3	5670.6	7496.9	*8295.4*	7390.9	5305.4	6180.3	6285.2
62.5°	*4856.8*	*5110.4*	*5715.9*	*5059.8*	*5790.8*	*7678.2*	*8316.5*	*7534.8*	*5624.2*	*5711.7*	*5677.5*
65°	4343.0	4598.6	5240.0	4416.7	5408.7	7247.6	*7703.0*	7111.6	5051.3	5160.4	5173.1
67.5°	3660.4	3896.5	4549.6	3927.1	4930.1	6615.6	*6761.1*	6508.6	4651.8	4825.7	4643.9
70°	2734.9	2947.8	3524.4	3191.3	4155.9	5792.4	*5674.8*	5712.3	4203.3	4376.2	3879.1
72.5°	1868.9	2029.2	2523.6	2507.7	3182.4	4637.1	*4473.1*	4827.9	3510.7	3740.0	2957.3
75°	1307.1	1432.0	1824.1	1981.2	2405.5	3436.9	*3185.5*	3613.5	2741.8	3069.1	2157.8
77.5°	802.2	884.9	1152.1	1467.9	1547.4	2352.3	*1978.6*	2719.1	1925.3	2238.4	1439.4
80°	401.1	441.1	559.7	922.9	1026.2	1386.2	*1092.6*	1578.5	1302.9	1386.2	796.4
82.5°	121.2	133.9	163.9	350.5	531.8	798.0	*645.6*	917.1	711.5	649.9	313.6
85°	32.2	36.4	45.3	103.8	186.6	286.2	*218.2*	444.3	341.0	239.8	118.1
87.5°	2.6	2.6	2.1	2.1	1.1	0.0	*0.0*	31.6	63.8	36.4	20.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	1006.2	1004.0	982.4	966.6	948.2	930.3	911.8	895.5	877.0	858.6	853.3
5°	1087.3	1072.6	1026.7	988.2	950.3	917.1	888.1	858.1	833.8	810.1	801.1
7.5°	1159.0	1133.2	1066.8	1008.3	955.6	914.4	871.8	828.0	793.7	760.0	751.6
10°	1223.8	1189.6	1105.8	1032.0	973.5	926.6	876.5	818.0	768.5	727.3	716.3
12.5°	1271.8	1234.4	1139.5	1054.6	988.2	935.5	886.0	834.3	782.2	728.9	716.8
15°	1309.7	1270.7	1167.4	1072.0	988.8	920.8	872.8	854.9	838.5	786.4	764.2
17.5°	1340.3	1299.2	1191.7	1082.6	974.5	876.0	834.3	860.7	902.3	869.6	828.0
20°	1368.2	1326.6	1210.1	1090.0	942.9	814.3	791.1	847.0	909.7	908.6	871.2
22.5°	1398.8	1358.2	1237.0	1094.2	898.6	751.6	765.3	827.0	878.1	893.4	870.2
25°	1437.8	1402.0	1274.4	1103.7	848.6	708.4	746.3	801.1	843.8	847.5	833.8
27.5°	1483.1	1456.3	1330.3	1125.8	800.1	686.2	724.2	764.8	803.8	805.3	789.0
30°	1532.7	1514.8	1381.9	1144.2	763.7	679.4	695.7	728.4	753.2	757.4	743.2
32.5°	1595.9	1580.1	1427.8	1132.1	742.1	677.8	669.4	686.2	706.8	706.8	695.7
35°	1682.9	1660.8	1476.3	1085.7	715.7	671.5	641.4	646.2	655.1	656.7	650.4
37.5°	1806.2	1769.9	1525.3	994.0	672.5	648.8	609.3	603.5	606.6	610.9	609.3
40°	1959.1	1899.5	1597.0	883.9	620.9	605.1	576.1	565.0	562.4	570.8	574.0
42.5°	2151.5	2060.3	1673.9	781.1	574.0	555.0	537.1	527.6	523.4	537.6	546.0
45°	2458.7	2308.5	1747.7	679.4	547.6	512.3	500.2	493.3	495.4	512.3	522.8
47.5°	2989.5	2687.5	1817.8	615.1	545.5	481.7	467.0	468.6	474.4	492.3	504.9
50°	3660.9	3195.0	1864.7	588.2	551.8	463.3	443.8	452.2	461.2	478.6	493.3
52.5°	4344.5	3667.8	1808.9	573.4	551.3	463.8	422.2	447.5	451.7	469.1	484.9
55°	4814.7	3720.5	1562.7	550.8	542.9	484.9	405.3	445.4	448.0	463.8	478.0
57.5°	4993.9	3540.3	1191.7	557.1	517.6	501.2	397.9	430.6	449.6	463.3	478.0
60°	4777.3	3200.3	724.2	573.4	477.0	500.2	402.7	403.7	436.4	459.6	474.4
62.5°	*4368.8*	*2763.9*	*508.6*	*527.1*	*447.5*	*472.2*	*413.7*	*372.1*	*413.2*	*441.1*	*454.3*
65°	3900.8	2250.5	387.9	453.8	433.2	429.0	417.4	344.2	381.6	409.0	420.6
67.5°	3413.2	1749.3	315.2	338.4	391.6	387.9	381.6	319.4	344.2	363.7	376.8
70°	2799.2	1223.8	266.2	254.0	335.7	347.9	333.6	288.3	296.2	316.2	326.8
72.5°	2047.6	762.7	218.7	209.8	269.9	304.1	296.7	254.0	257.7	276.7	285.1
75°	1472.6	436.4	175.5	172.9	206.1	260.4	245.6	218.7	222.9	237.2	243.0
77.5°	936.1	243.0	135.5	139.1	147.6	194.5	209.8	187.1	187.1	195.5	200.3
80°	501.2	139.1	99.1	100.7	103.3	148.6	165.5	144.9	144.9	139.1	144.9
82.5°	204.5	80.1	68.0	63.2	69.0	101.7	116.0	92.2	96.5	87.0	89.1
85°	67.5	40.1	33.7	33.2	32.7	44.8	55.9	45.9	54.8	34.8	36.4
87.5°	9.0	7.4	4.2	3.2	3.7	1.6	3.2	3.7	3.7	2.6	2.6
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°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	849.6	845.4	830.1	833.8	831.2	827.0	831.2	823.3	829.6	831.7	844.9
5°	794.3	784.3	769.5	762.1	760.5	756.3	756.9	753.2	754.2	763.2	777.9
7.5°	744.7	735.2	723.7	718.4	713.6	708.9	708.4	707.8	712.1	720.0	734.2
10°	708.9	703.6	698.9	701.0	698.9	696.8	693.1	693.1	699.9	714.2	731.6
12.5°	708.9	707.8	708.9	715.2	714.7	715.2	710.5	713.1	732.1	756.3	781.1
15°	746.8	738.4	738.4	741.6	740.5	740.5	740.5	751.6	794.8	832.2	858.6
17.5°	793.2	768.5	757.9	756.3	755.8	755.8	757.9	781.6	849.1	888.6	903.9
20°	825.4	778.5	761.1	754.2	754.7	755.8	762.1	794.8	869.1	889.1	885.5
22.5°	831.2	770.6	749.5	739.5	741.0	742.1	751.6	786.4	841.7	844.9	837.5
25°	804.3	748.4	725.8	717.9	720.0	719.4	727.9	753.2	792.7	791.6	787.4
27.5°	764.2	713.1	696.2	691.0	694.7	690.4	693.1	712.6	743.2	742.1	740.5
30°	723.1	678.9	663.6	660.9	665.7	659.3	659.9	676.2	697.3	696.2	695.7
32.5°	682.0	644.6	630.9	630.9	635.6	628.8	629.8	644.1	658.3	654.1	654.1
35°	643.0	616.7	605.6	603.5	607.2	602.4	604.5	617.7	623.0	617.2	613.5
37.5°	608.8	597.2	586.1	578.7	579.2	579.8	586.1	596.1	592.9	584.5	579.8
40°	577.1	577.1	566.6	552.9	551.3	555.0	565.5	576.6	567.6	558.2	552.4
42.5°	554.5	559.2	549.2	535.5	532.3	538.7	550.2	558.2	547.6	537.1	529.2
45°	533.4	545.0	538.1	522.8	518.6	526.0	540.8	543.9	529.7	519.7	513.9
47.5°	518.6	534.4	529.7	514.9	508.6	519.2	534.4	533.9	516.0	505.4	500.7
50°	508.1	528.1	527.6	514.9	508.1	521.3	535.0	528.1	508.6	497.5	492.8
52.5°	499.7	527.6	531.3	523.9	519.2	530.7	539.2	526.0	503.3	491.7	488.1
55°	496.0	529.7	532.3	525.5	521.3	531.8	539.2	530.2	503.3	492.8	489.6
57.5°	497.0	527.1	527.6	518.1	510.7	523.9	535.5	532.9	509.1	497.0	493.3
60°	490.7	512.8	513.9	499.1	490.7	506.5	527.1	525.5	506.5	493.9	487.0
62.5°	*469.6*	*489.1*	*489.6*	*475.9*	*463.8*	*486.5*	*509.1*	*508.6*	*491.2*	*478.6*	*470.7*
65°	434.3	454.9	460.1	446.9	437.5	461.7	485.4	484.4	467.0	455.4	447.5
67.5°	390.6	412.7	422.7	413.7	410.1	432.2	454.3	453.8	439.6	428.5	421.6
70°	337.3	355.8	372.6	372.6	370.0	395.3	419.0	416.9	403.7	395.3	390.0
72.5°	293.0	307.3	312.5	317.8	325.7	352.1	372.1	373.7	364.2	360.0	364.2
75°	249.3	258.3	263.0	258.8	272.5	299.9	326.2	328.9	318.9	312.0	313.6
77.5°	205.0	215.0	219.8	210.3	209.2	244.0	276.2	282.0	273.5	263.0	266.2
80°	148.1	161.3	169.2	162.9	160.8	176.0	220.3	226.6	218.7	210.3	215.0
82.5°	90.7	98.0	100.1	106.5	119.6	126.0	141.8	162.9	157.1	149.7	162.9
85°	35.8	42.7	47.4	53.8	62.7	74.3	87.5	104.4	94.9	91.7	108.0
87.5°	2.1	0.5	0.0	1.1	9.0	17.4	37.4	51.7	43.2	46.4	55.9
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: P632546
CATALOG NUMBER: GWS-SA2C-830-U-SLR-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9	923.9
2.5°	855.4	869.1	887.6	902.9	922.4	940.8	959.8	978.7	988.8	993.0
5°	794.8	820.1	849.6	882.3	920.2	960.3	1000.9	1042.5	1068.9	1071.0
7.5°	758.4	794.8	835.4	876.5	923.4	978.7	1043.0	1107.3	1134.2	1141.6
10°	770.0	810.6	842.8	881.2	932.9	1001.9	1077.8	1153.2	1184.3	1193.3
12.5°	816.4	824.3	834.3	869.6	932.9	1022.0	1113.7	1203.3	1236.5	1244.9
15°	854.9	816.9	799.0	836.4	920.2	1039.4	1151.6	1250.7	1290.8	1298.7
17.5°	858.1	792.7	753.7	787.4	898.1	1051.5	1188.0	1303.4	1337.1	1344.5
20°	825.9	766.9	716.3	736.8	868.1	1056.8	1214.3	1341.9	1375.1	1382.5
22.5°	789.5	745.8	691.0	689.9	831.7	1062.5	1246.0	1378.3	1414.1	1418.8
25°	755.3	716.8	670.4	655.7	789.5	1073.6	1288.7	1433.1	1460.5	1462.1
27.5°	715.2	685.7	654.1	639.8	752.6	1094.7	1351.9	1498.4	1514.8	1512.1
30°	678.9	656.7	642.5	638.3	729.4	1110.5	1412.0	1562.7	1563.8	1554.8
32.5°	640.4	631.9	631.9	645.6	710.5	1106.8	1461.0	1625.4	1615.4	1602.3
35°	606.1	607.7	618.8	650.9	678.9	1069.9	1507.9	1704.0	1689.2	1670.2
37.5°	573.4	585.6	601.4	632.5	637.2	1015.1	1562.7	1815.2	1796.7	1773.0
40°	545.5	564.0	582.4	597.7	592.9	937.1	1639.2	1945.9	1925.3	1897.9
42.5°	523.4	541.3	561.8	563.4	565.0	855.9	1720.3	2106.1	2102.4	2072.4
45°	509.1	520.7	540.2	537.6	563.4	766.3	1795.2	2350.7	2399.2	2376.5
47.5°	499.7	508.6	510.7	521.8	577.1	686.2	1891.6	2829.2	2964.2	2938.4
50°	494.4	503.3	479.6	522.8	579.2	634.6	2025.0	3430.1	3647.2	3613.0
52.5°	493.9	491.7	455.9	533.9	567.6	603.0	2094.5	3868.6	4350.3	4424.7
55°	494.9	468.6	443.8	537.1	544.5	591.4	1861.6	4079.4	4999.1	5156.2
57.5°	485.4	443.3	450.6	524.4	500.7	622.5	1376.1	4004.1	5258.5	5550.5
60°	467.5	419.0	463.3	490.2	455.9	569.2	947.7	3667.8	4989.7	5290.1
62.5°	*441.7*	*402.1*	*461.7*	*445.9*	*439.6*	*465.9*	*651.4*	*3197.1*	*4563.3*	*4856.8*
65°	412.7	388.4	436.9	403.2	406.9	358.4	460.6	2665.9	4054.1	4343.0
67.5°	381.6	380.0	400.6	358.9	343.6	284.1	335.7	2136.7	3400.1	3660.4
70°	346.3	357.9	364.2	318.9	278.8	222.9	249.3	1494.2	2508.3	2734.9
72.5°	311.0	312.0	321.0	277.2	208.7	178.7	187.1	905.0	1704.0	1868.9
75°	275.1	265.1	273.5	225.6	155.5	146.5	144.4	559.2	1176.9	1307.1
77.5°	236.6	225.6	214.5	169.7	124.9	113.3	110.7	313.6	722.1	802.2
80°	192.4	177.6	160.2	124.4	91.2	81.2	80.6	152.8	360.0	401.1
82.5°	149.7	121.8	117.0	77.5	56.4	49.5	52.7	58.5	108.6	121.2
85°	104.9	88.5	62.2	31.1	25.3	20.6	20.0	17.4	29.0	32.2
87.5°	58.5	38.5	20.0	3.7	4.2	4.7	3.7	2.6	2.6	2.6
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.

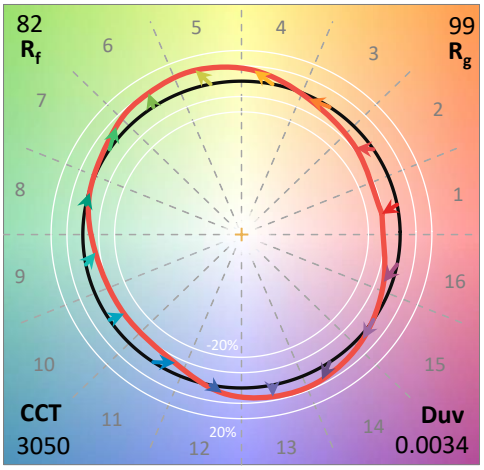
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

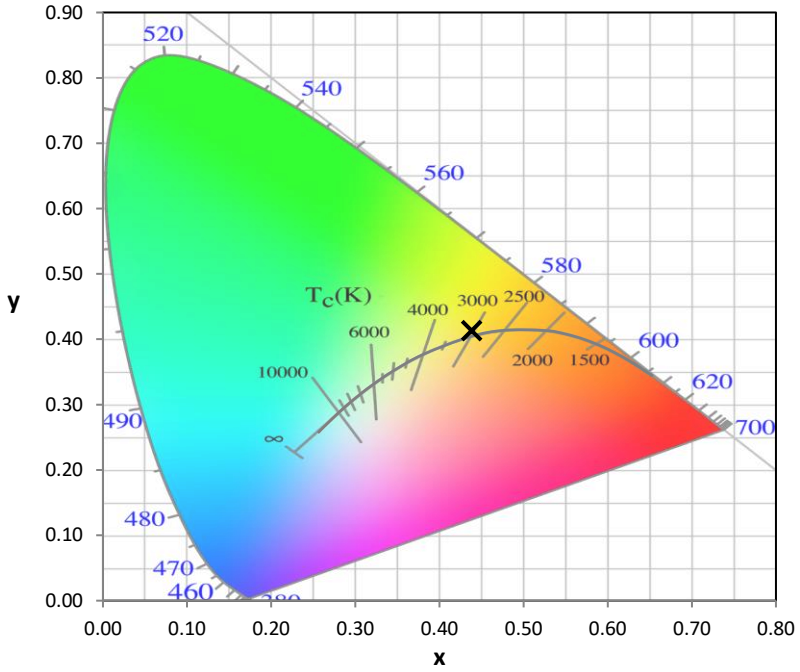
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

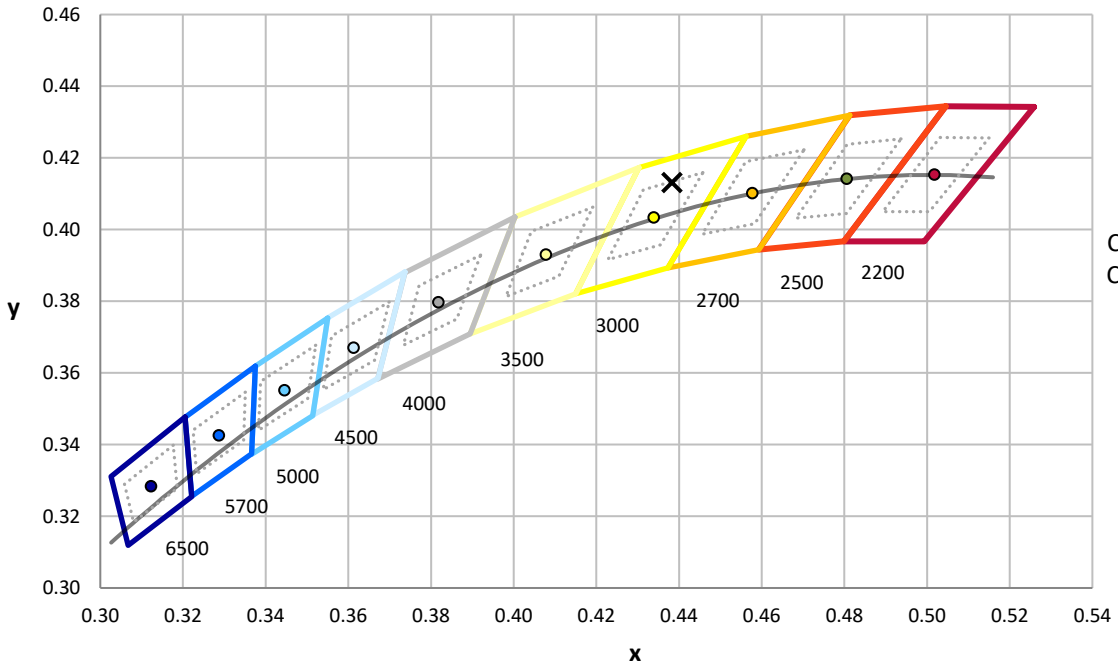
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

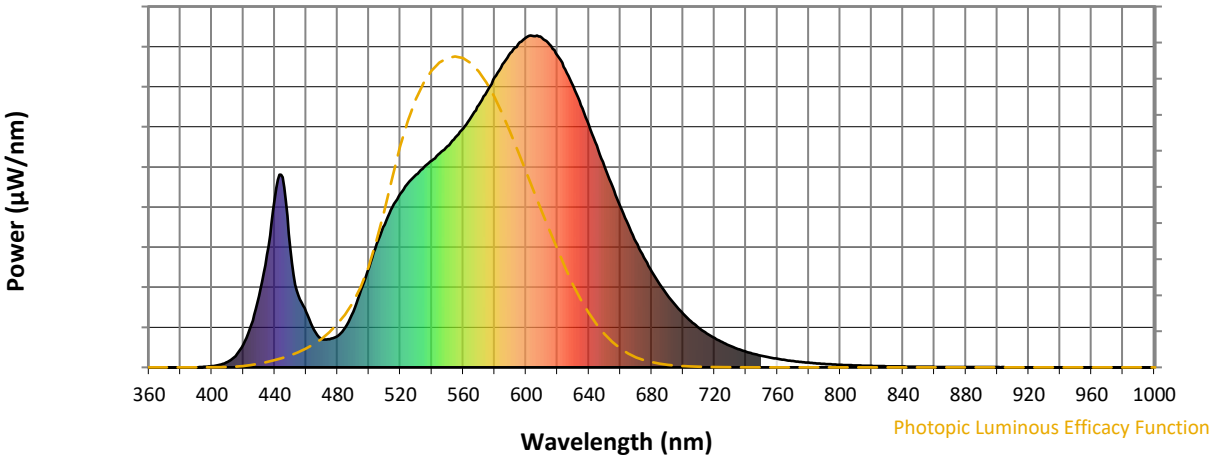


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

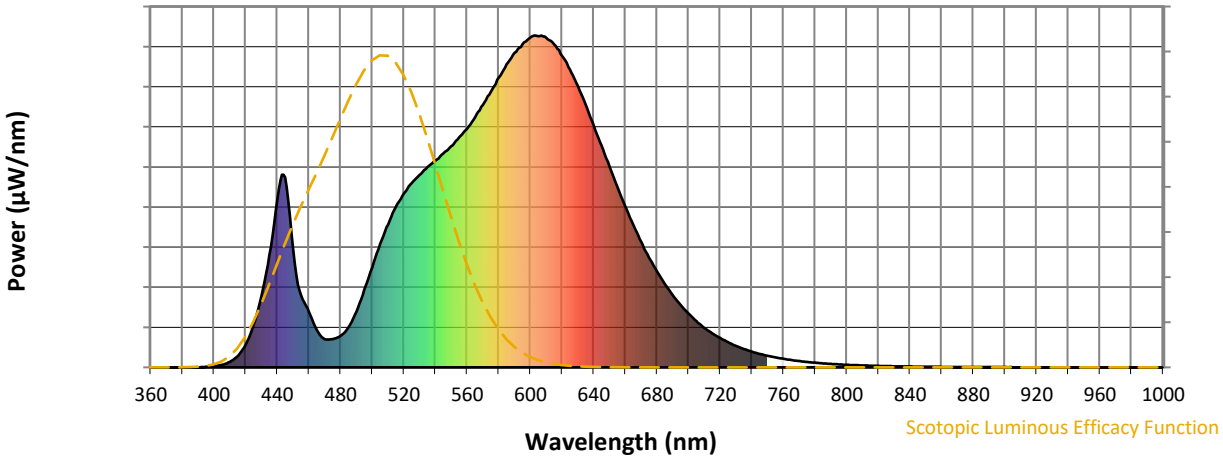


Photopic Lumens: NR

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

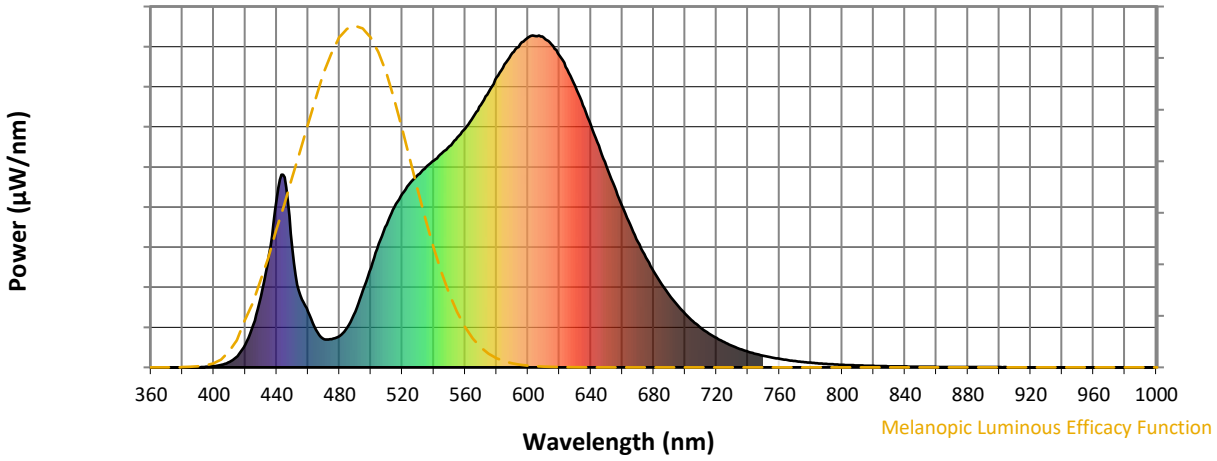


Scotopic Lumens: NR **S/P: 1.27**

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			

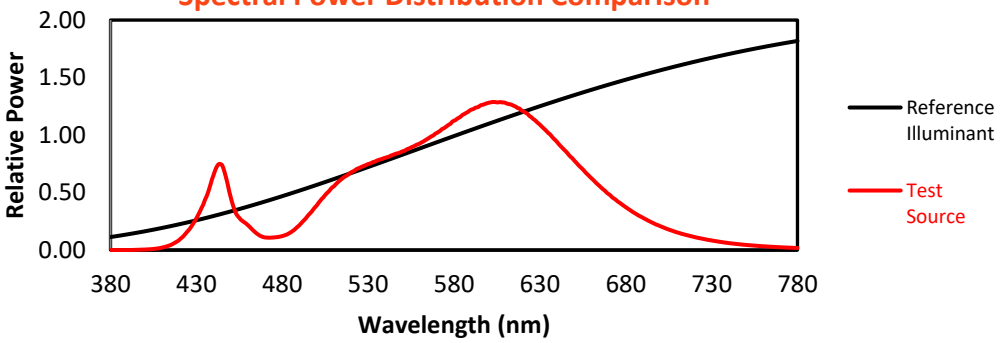
REPORT NUMBER: SP1-2408-195-9

TM-30-18

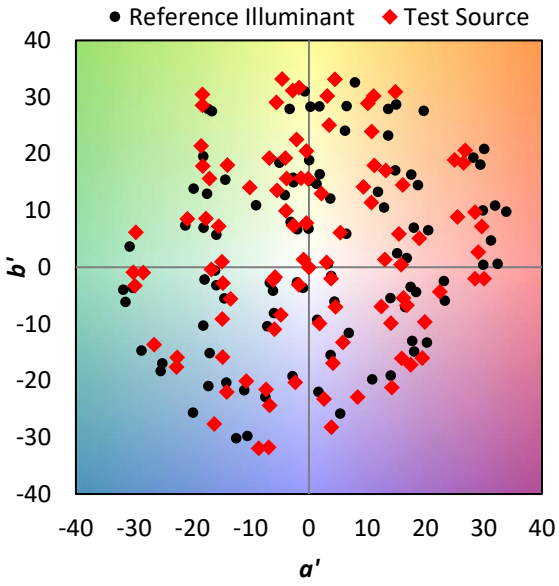
Summary

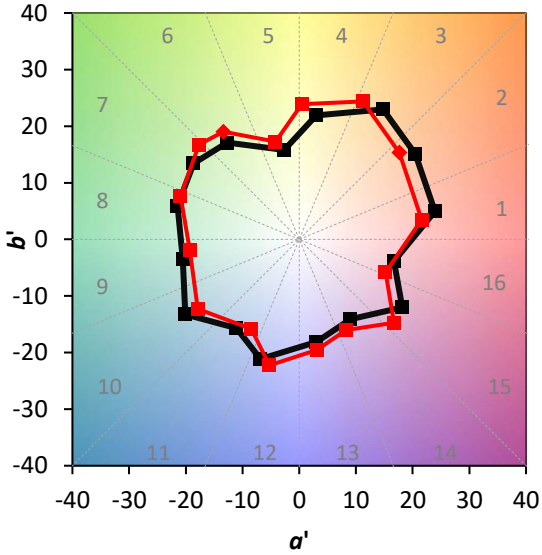
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

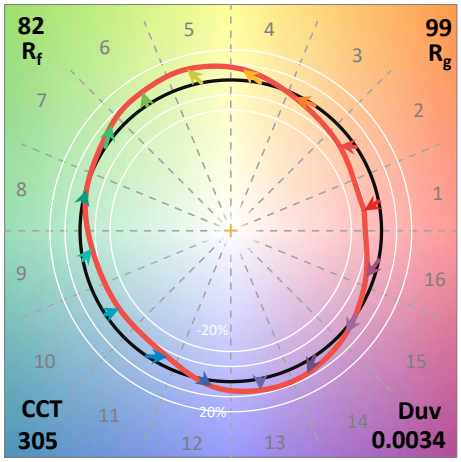
Spectral Power Distribution Comparison

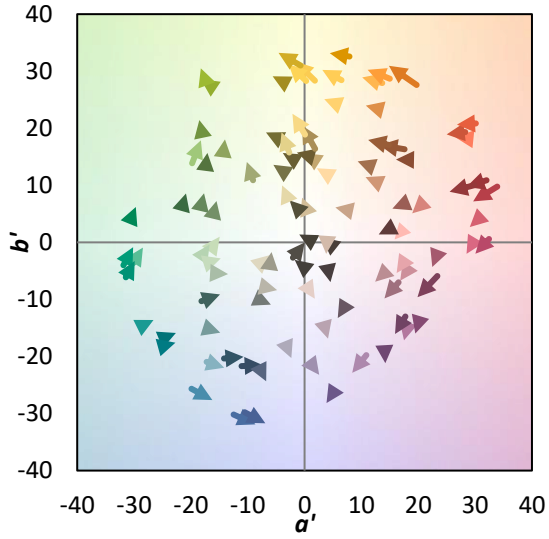


Color Vector Graphics









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
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
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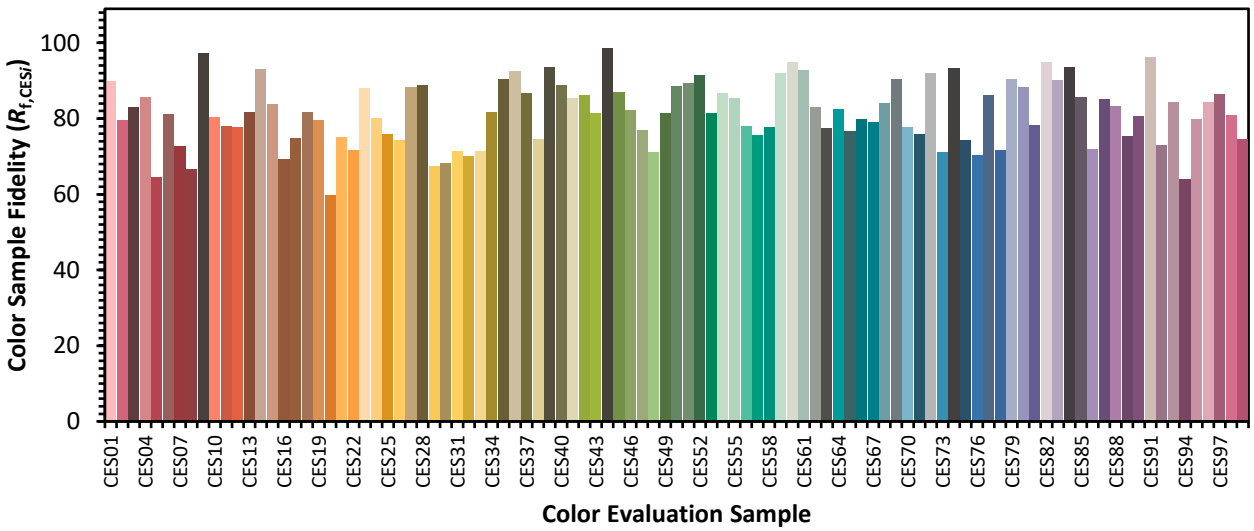

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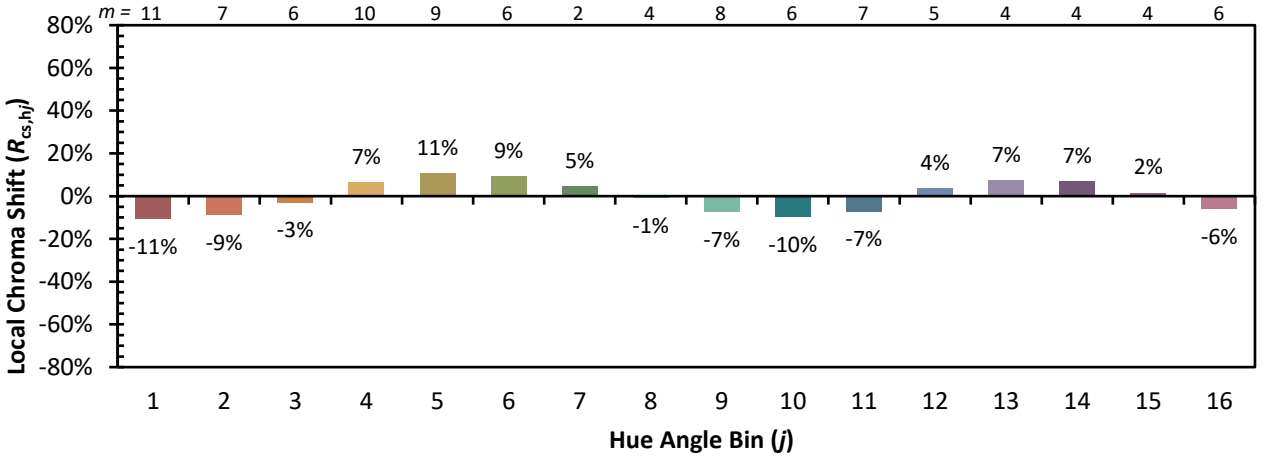
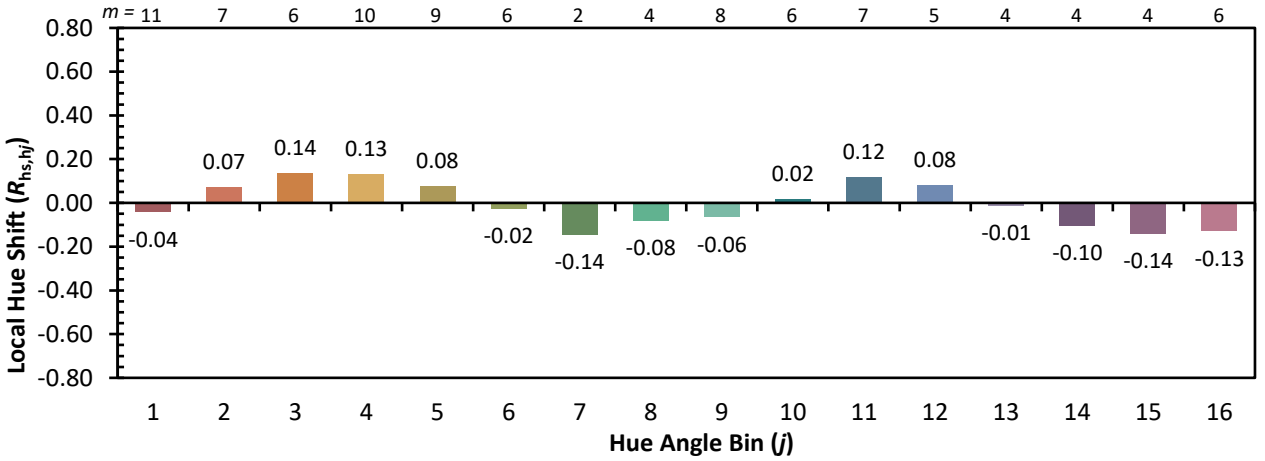
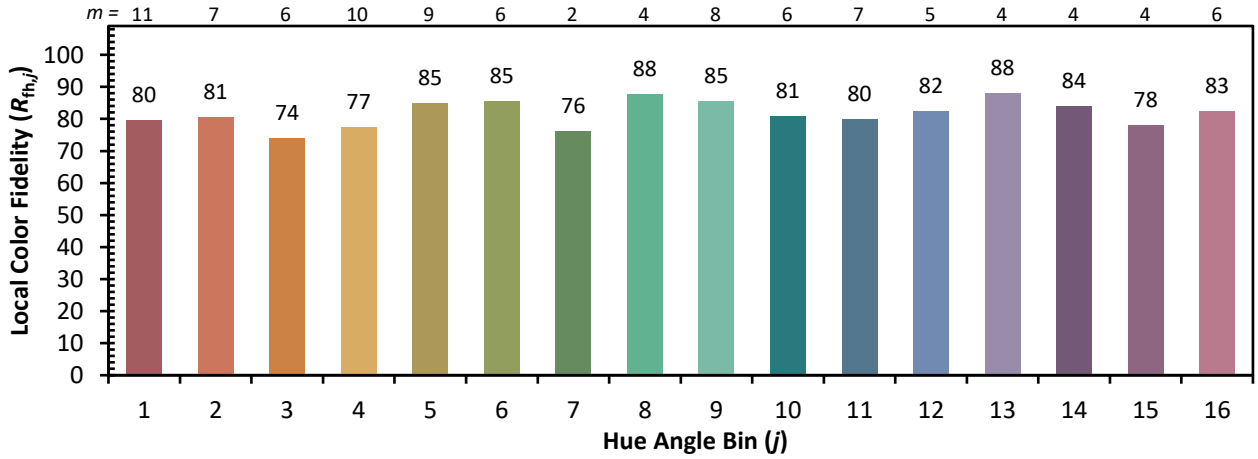
Color Rendition by Hue-Angle Bin







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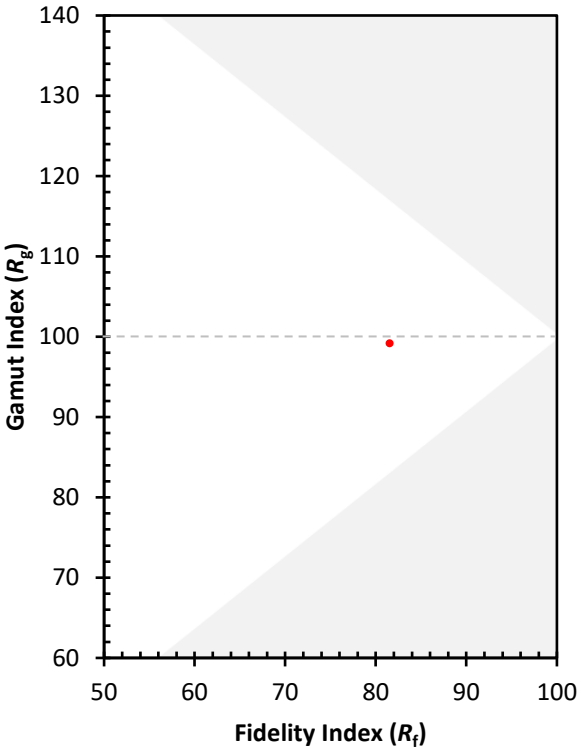
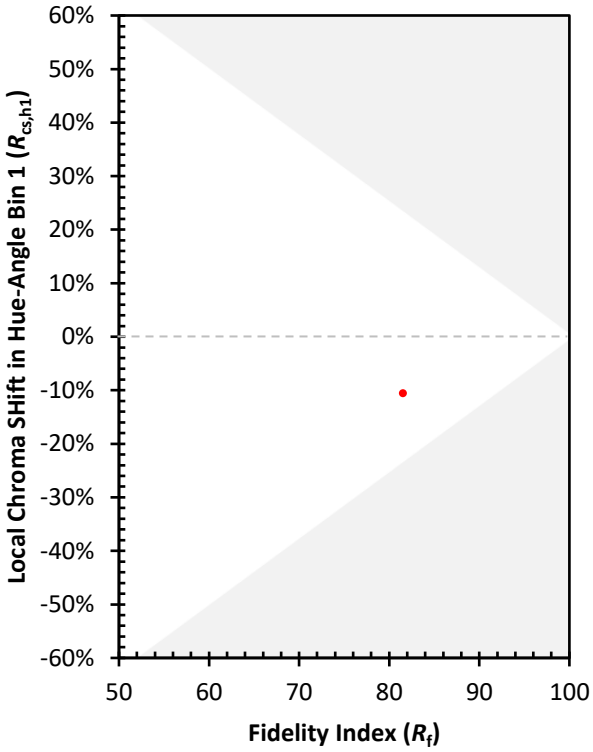
Measure Comparisons





(END OF REPORT)