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: P632544

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

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P632544
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
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-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5752.4 lumens
Efficiency:	N/A
Efficacy:	91.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G1

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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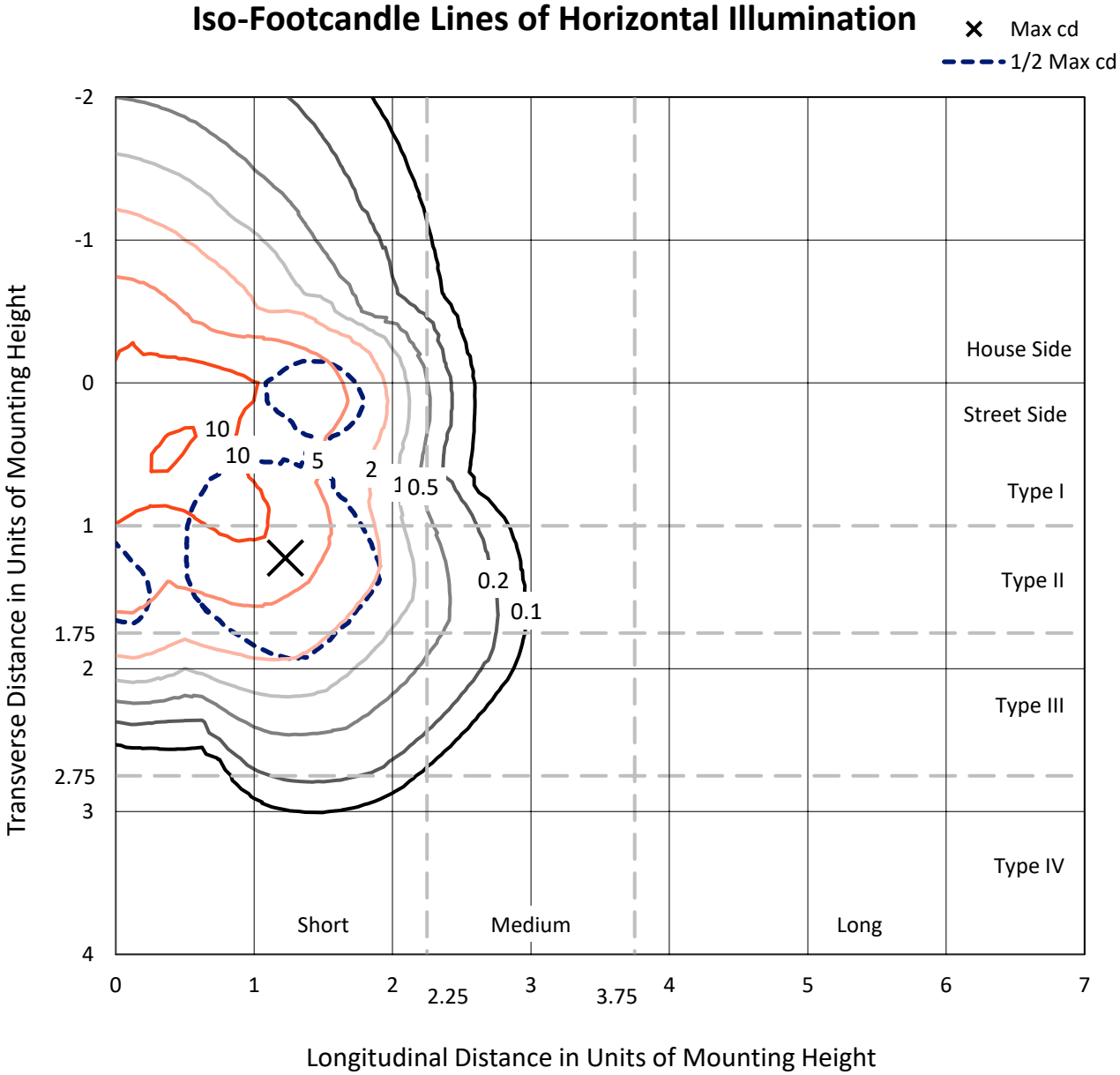
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
Type III - Short - N/A

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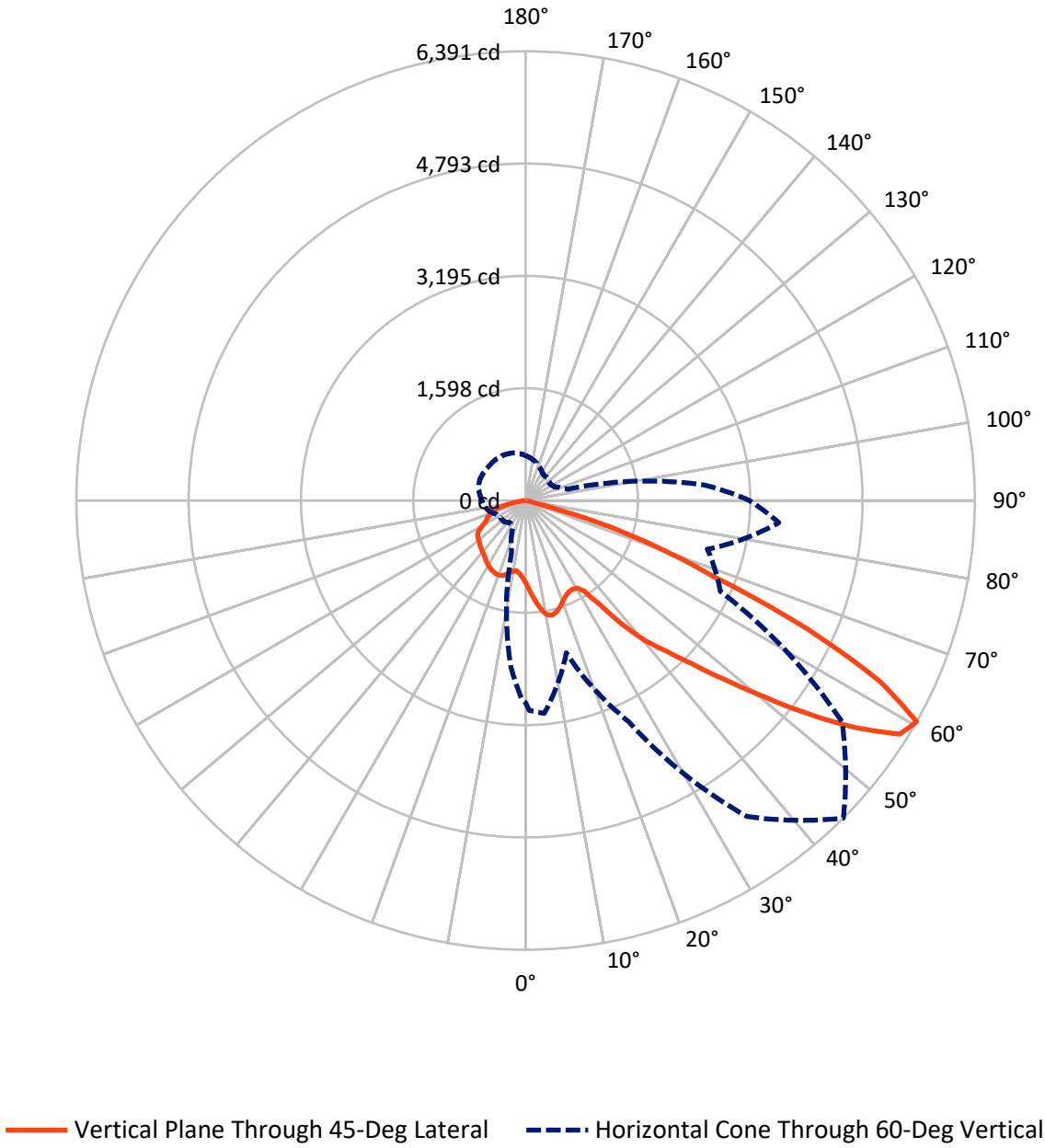
Luminous Intensity Polar Plot



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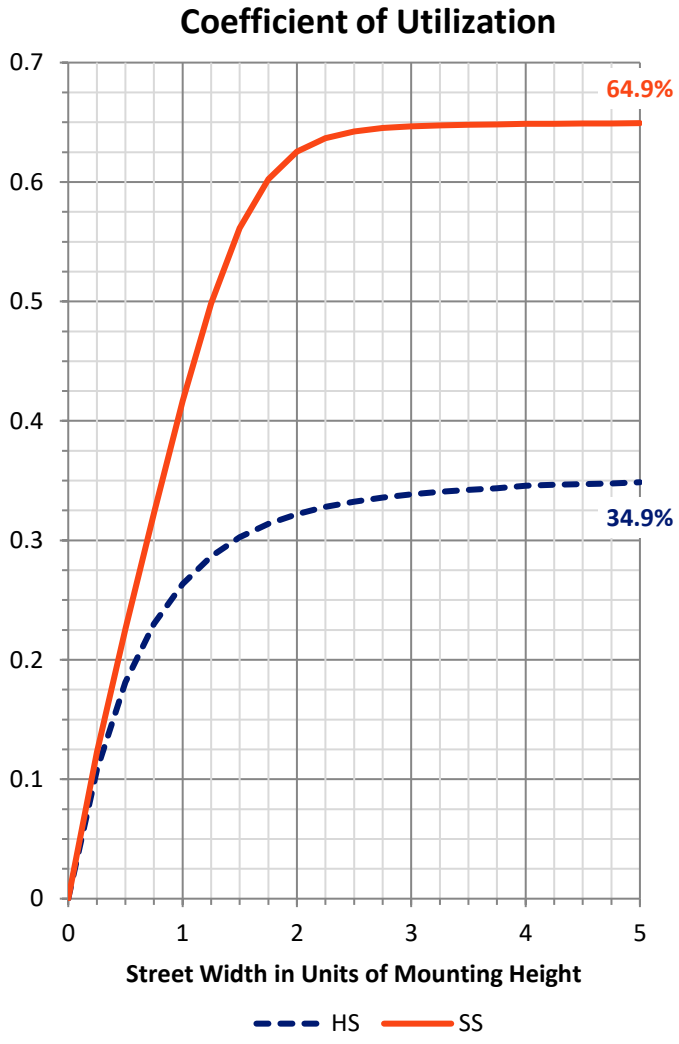
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2016.4	0.0	2016.4
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	3736.0	0.0	3736.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	5752.4	0.0	5752.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	2.0
10°-20°	364.3	6.3
20°-30°	591.8	10.3
30°-40°	834.6	14.5
40°-50°	1153.4	20.1
50°-60°	1484.8	25.8
60°-70°	940.8	16.4
70°-80°	241.4	4.2
80°-90°	25.8	0.4
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°	5752.4	100.0
0°-180°	5752.4	100.0



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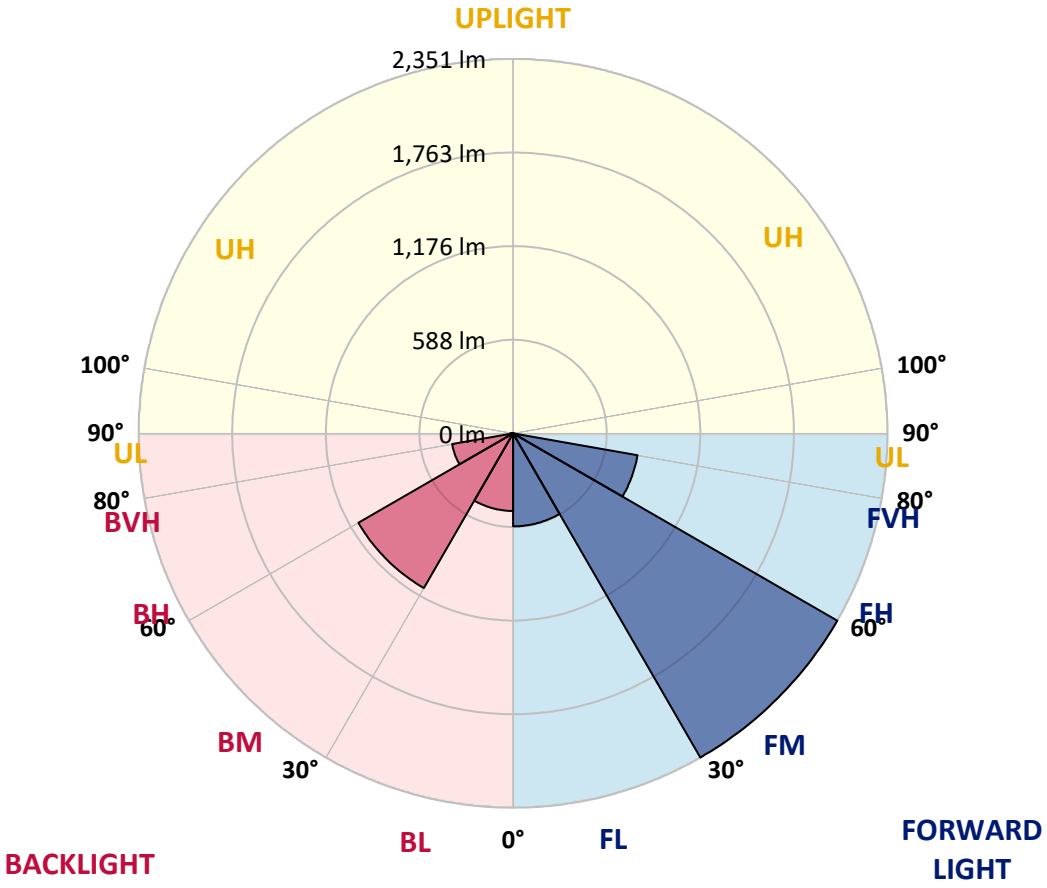
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	584.1	10.2			
FM	(30°-60°)	2351.2	40.9			
FH	(60°-80°)	793.6	13.8			G1/1800
FVH	(80°-90°)	7.0	0.1			G0/10
BL	(0°-30°)	487.4	8.5	B1/500		
BM	(30°-60°)	1121.7	19.5	B2/2500		
BH	(60°-80°)	388.6	6.8	B1/500		G1/500
BVH	(80°-90°)	18.8	0.3			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	*1181.7*	1181.7	1181.7	1181.7	1181.7
2.5°	1236.0	1244.4	1249.7	1259.7	1277.6	1287.7	*1298.7*	1286.6	1289.8	1288.2	1268.7
5°	1309.3	1319.3	1333.0	1362.5	1395.7	1414.2	*1431.5*	1428.9	1412.6	1385.2	1365.7
7.5°	1377.8	1389.4	1413.1	1461.1	1510.1	1538.5	*1559.6*	1545.9	1532.2	1489.0	1440.0
10°	1431.5	1438.4	1470.6	1534.9	1591.8	1623.9	*1649.8*	1646.6	1627.6	1579.1	1513.2
12.5°	1482.1	1486.9	1521.7	1586.0	1637.1	1651.3	*1672.4*	1679.3	1672.9	1636.6	1571.8
15°	1536.4	1545.4	1577.5	1626.6	1649.8	1635.0	*1642.4*	1661.4	1679.3	1679.3	1619.7
17.5°	1587.0	1594.9	1627.6	1648.7	1626.6	1587.6	*1589.7*	1613.9	1656.6	1701.4	1663.5
20°	1631.8	1639.2	1671.4	1651.3	1581.2	1524.3	*1522.7*	1552.2	1621.3	1715.6	1710.4
22.5°	1680.9	1691.4	1718.3	1653.4	1539.1	1466.9	*1466.3*	1496.9	1590.2	1729.9	1764.1
25°	1750.4	1766.8	1780.5	1671.9	1516.4	1429.4	*1436.3*	1465.3	1580.2	1753.1	1843.7
27.5°	1853.7	1866.9	1865.9	1710.4	1515.4	1414.2	*1428.4*	1462.1	1598.1	1794.2	1927.5
30°	1965.5	1972.3	1961.3	1764.1	1539.6	1423.6	*1444.7*	1484.8	1643.4	1862.2	2050.9
32.5°	2089.3	2097.8	2076.7	1844.8	1596.0	1493.7	*1540.1*	1559.6	1707.2	1960.2	2181.6
35°	2231.7	2248.0	2204.2	1951.2	1762.0	1749.4	*1816.8*	1791.5	1842.7	2076.2	2321.3
37.5°	2381.3	2381.9	2319.1	2108.8	2087.8	2109.4	*2244.3*	2165.2	2129.9	2205.3	2463.6
40°	2508.4	2505.2	2408.8	2321.3	2371.3	2457.2	*2620.1*	2498.9	2406.1	2378.7	2581.6
42.5°	2635.4	2623.8	2526.3	2456.2	2566.9	2743.4	*2927.4*	2778.8	2583.2	2536.3	2698.1
45°	2797.7	2794.0	2676.5	2510.0	2743.4	3063.9	*3307.9*	3067.1	2688.1	2628.0	2892.1
47.5°	3059.7	3041.8	2823.0	2505.7	2909.0	3490.8	*3799.2*	3430.2	2761.4	2630.1	3205.2
50°	3315.9	3293.7	2998.0	2505.2	3079.7	3933.6	*4379.0*	3871.4	2836.2	2642.8	3523.5
52.5°	3574.7	3574.7	3285.3	2564.8	3258.9	4428.0	*5048.9*	4421.1	2963.8	2808.3	3915.1
55°	3728.6	3769.7	3608.4	2665.4	3468.7	5009.9	*5711.4*	5014.6	3160.9	3107.1	4276.7
57.5°	3533.0	3610.0	3586.8	2595.3	3592.6	5437.3	*6273.3*	5464.8	3258.4	3142.4	4222.4
60°	*2878.9*	*2985.9*	*3039.1*	*2241.1*	*3470.3*	*5486.9*	*6390.8*	*5494.3*	*3057.1*	*2676.0*	*3616.8*
62.5°	1913.8	2001.8	2083.0	1601.3	3004.4	4936.1	*5652.4*	4937.7	2553.2	1997.1	2505.7
65°	938.7	1004.1	1091.6	946.6	2347.1	4124.4	*4406.9*	3990.0	1846.9	1117.9	1278.2
67.5°	245.6	264.1	276.2	367.4	1681.4	2963.2	*2874.2*	2918.4	1186.5	365.3	334.2
70°	127.6	128.6	128.1	151.8	1136.4	1883.3	*1980.8*	1832.7	828.0	152.9	131.8
72.5°	91.2	91.7	90.1	102.3	548.7	1078.9	*1117.9*	1105.8	433.8	90.7	90.1
75°	59.6	60.1	59.0	60.1	82.8	122.8	*113.3*	119.1	72.2	57.5	57.5
77.5°	35.3	35.8	35.3	36.4	35.3	35.3	*32.7*	32.7	31.1	31.1	31.6
80°	23.7	23.7	23.2	24.2	22.1	22.1	*21.1*	20.6	19.0	18.4	18.4
82.5°	14.2	14.8	14.2	14.2	13.2	13.2	*12.1*	11.6	10.0	10.0	9.5
85°	7.4	7.4	6.9	6.9	5.8	5.3	*4.2*	4.2	3.2	2.6	2.6
87.5°	1.1	1.1	0.5	0.5	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7
2.5°	1263.4	1252.9	1237.1	1221.8	1207.5	1192.8	1175.9	1158.5	1143.8	1128.5	1120.6
5°	1339.8	1318.2	1277.1	1240.7	1208.1	1181.2	1152.2	1127.4	1104.2	1085.3	1075.8
7.5°	1408.9	1375.1	1313.0	1255.5	1211.2	1174.3	1134.3	1097.4	1066.3	1043.1	1034.1
10°	1472.7	1432.6	1350.9	1278.2	1226.5	1185.4	1136.4	1086.3	1045.2	1014.6	1007.2
12.5°	1524.3	1478.5	1380.9	1296.6	1235.5	1191.2	1148.0	1104.8	1064.2	1024.6	1018.3
15°	1570.2	1515.9	1403.6	1308.2	1232.3	1175.9	1139.5	1134.3	1134.3	1089.5	1076.8
17.5°	1609.7	1550.1	1422.1	1313.5	1212.3	1130.6	1108.4	1154.3	1206.0	1173.8	1145.3
20°	1655.0	1582.8	1437.3	1313.5	1175.4	1073.1	1071.0	1149.0	1225.5	1226.0	1195.9
22.5°	1700.9	1620.8	1455.3	1308.7	1124.8	1006.7	1045.7	1127.9	1195.9	1224.9	1204.4
25°	1775.2	1673.5	1483.7	1305.0	1065.8	961.4	1023.1	1100.0	1157.5	1188.0	1174.9
27.5°	1869.5	1743.1	1526.9	1310.8	1007.2	934.5	998.8	1063.6	1115.8	1142.7	1133.2
30°	1975.0	1823.2	1573.3	1320.9	965.1	920.8	969.8	1022.0	1068.4	1095.3	1091.1
32.5°	2109.4	1910.1	1613.4	1307.2	941.4	914.0	939.3	976.7	1021.5	1038.3	1042.0
35°	2270.1	2006.1	1644.0	1253.4	919.8	906.6	906.0	929.2	960.9	987.7	990.4
37.5°	2418.2	2118.3	1677.7	1161.2	880.7	888.1	867.0	880.7	911.8	938.7	949.3
40°	2564.8	2232.2	1724.6	1043.6	829.6	847.0	822.2	831.7	856.5	891.8	908.7
42.5°	2707.1	2335.0	1774.1	923.4	778.5	789.6	771.1	780.6	806.4	850.7	869.7
45°	2862.0	2474.1	1812.6	810.1	734.2	729.5	714.7	728.4	767.4	815.9	838.6
47.5°	3155.1	2693.4	1837.9	734.7	710.5	676.2	659.4	688.9	733.2	782.2	809.6
50°	3513.0	3010.7	1830.5	686.8	689.9	621.4	615.6	654.6	702.1	753.2	783.2
52.5°	3796.6	3322.2	1746.7	640.9	649.9	586.6	569.8	626.7	672.0	724.2	755.3
55°	4013.2	3427.1	1489.5	586.6	584.5	561.3	526.0	597.7	642.0	690.5	724.2
57.5°	3836.6	3193.6	1104.2	511.8	499.1	511.3	477.0	548.7	605.1	653.1	683.1
60°	*3184.1*	*2546.3*	*615.1*	*453.3*	*417.4*	*447.0*	*441.7*	*497.0*	*565.0*	*615.6*	*641.5*
62.5°	2161.6	1695.6	364.7	358.4	338.4	380.6	408.5	444.9	511.8	552.9	577.2
65°	1077.3	823.8	242.5	268.3	270.9	313.1	365.8	405.9	461.7	503.9	528.1
67.5°	312.6	256.2	184.5	205.0	233.5	267.2	309.4	356.8	411.1	461.2	489.7
70°	134.9	136.5	146.5	170.8	198.7	233.5	275.7	322.0	367.9	406.4	428.0
72.5°	95.4	99.1	110.2	134.9	161.3	194.5	236.7	281.5	314.7	353.7	376.3
75°	61.1	63.8	72.7	91.7	111.2	143.4	183.4	224.5	258.8	286.7	308.3
77.5°	33.7	34.3	41.6	52.7	65.9	86.4	116.0	148.1	173.4	189.2	208.7
80°	19.5	19.5	23.2	30.0	37.9	50.6	66.9	82.8	98.0	108.1	117.5
82.5°	10.5	10.5	12.1	16.3	20.6	27.9	37.4	45.3	54.8	60.1	66.4
85°	3.2	3.2	4.2	5.8	7.4	10.5	14.8	19.0	23.2	26.9	30.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7
2.5°	1119.0	1111.6	1107.4	1102.1	1103.7	1099.0	1096.3	1097.9	1088.4	1097.9	1107.4
5°	1072.1	1061.5	1053.1	1046.3	1043.1	1036.8	1033.1	1033.1	1027.3	1036.8	1048.4
7.5°	1031.0	1022.5	1018.3	1014.1	1009.4	1003.6	997.2	995.1	991.4	1001.5	1011.5
10°	1003.6	1004.6	1007.2	1013.0	1012.0	1008.3	998.8	993.5	993.5	1005.1	1020.4
12.5°	1016.2	1027.3	1033.6	1044.1	1046.3	1043.1	1033.6	1029.4	1039.9	1057.3	1082.6
15°	1065.2	1072.6	1077.9	1086.3	1085.8	1083.1	1075.8	1078.9	1113.7	1147.5	1170.1
17.5°	1118.5	1110.0	1109.0	1114.2	1115.8	1112.7	1108.4	1122.7	1180.1	1211.8	1223.4
20°	1156.9	1127.9	1121.6	1123.7	1127.9	1126.4	1126.4	1149.6	1209.1	1223.9	1209.1
22.5°	1168.5	1127.4	1117.9	1118.5	1124.3	1124.8	1127.4	1151.7	1186.5	1187.0	1164.3
25°	1150.1	1110.6	1103.7	1104.8	1111.6	1111.1	1112.1	1125.8	1141.1	1134.8	1117.9
27.5°	1115.3	1081.0	1078.9	1084.7	1093.7	1088.9	1085.8	1089.5	1096.9	1088.9	1074.2
30°	1075.8	1046.8	1047.8	1058.9	1068.4	1060.5	1052.6	1054.7	1055.2	1046.8	1029.9
32.5°	1034.1	1012.5	1016.2	1027.8	1038.9	1030.4	1022.0	1021.0	1010.9	1000.9	984.6
35°	992.5	984.1	988.8	998.3	1007.8	1000.9	995.7	992.5	970.9	956.1	942.4
37.5°	954.5	960.9	969.3	975.1	978.3	977.7	974.6	967.2	938.7	921.3	903.4
40°	920.8	940.3	949.3	951.9	956.6	955.6	955.1	944.5	907.1	888.7	868.1
42.5°	890.2	917.6	932.9	935.6	938.2	938.7	937.1	921.9	879.2	857.6	838.1
45°	860.7	896.6	916.1	913.4	917.1	917.1	918.7	898.7	851.8	829.6	809.1
47.5°	834.9	877.1	895.0	891.8	893.9	895.5	897.1	873.9	821.7	800.6	779.6
50°	811.2	856.0	871.3	872.3	872.3	876.0	875.5	852.8	796.4	773.8	752.7
52.5°	785.9	834.4	850.7	857.6	859.7	861.2	853.9	827.5	770.6	743.2	723.7
55°	756.4	812.2	827.0	835.9	840.2	839.1	829.1	802.2	744.2	716.8	694.7
57.5°	711.6	764.8	785.9	790.1	796.9	792.7	781.1	758.5	702.1	674.7	652.0
60°	*662.5*	*701.0*	*717.9*	*721.6*	*716.3*	*717.9*	*716.3*	*694.7*	*645.7*	*624.1*	*600.9*
62.5°	598.2	632.5	650.4	655.2	646.2	652.0	649.9	623.0	574.0	551.3	530.8
65°	549.7	587.2	608.2	610.9	608.2	610.9	603.5	570.8	524.4	501.3	480.2
67.5°	511.8	550.3	572.4	579.8	577.2	576.6	565.0	527.1	479.1	453.8	426.9
70°	446.4	480.2	508.6	526.6	526.6	516.5	494.4	459.1	420.6	399.0	377.9
72.5°	395.3	438.0	465.9	484.4	488.1	482.3	451.2	413.8	369.5	347.9	325.7
75°	325.7	367.4	397.4	421.7	426.4	420.1	384.2	347.3	306.2	285.1	263.0
77.5°	217.7	242.5	266.7	288.8	284.1	288.3	264.1	236.1	210.8	195.0	185.0
80°	122.8	139.1	146.5	158.7	158.7	158.7	142.8	129.7	115.4	106.5	96.5
82.5°	69.6	80.1	83.3	93.3	95.9	96.5	85.9	77.5	68.5	63.8	56.9
85°	32.2	37.9	38.5	44.3	46.4	50.6	45.9	40.1	34.8	32.7	28.5
87.5°	1.1	3.2	4.2	7.9	10.5	12.1	13.2	13.2	11.1	10.0	8.4
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: P632544
CATALOG NUMBER: GWS-SA2C-830-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7
2.5°	1119.0	1131.6	1146.4	1156.9	1175.9	1191.7	1208.1	1226.0	1239.2	1236.0
5°	1062.6	1083.7	1110.6	1135.3	1170.6	1206.5	1246.0	1286.6	1310.3	1309.3
7.5°	1031.0	1061.0	1093.7	1126.9	1168.5	1220.2	1280.8	1344.1	1376.2	1377.8
10°	1047.8	1080.0	1102.1	1130.1	1173.8	1238.6	1311.4	1387.3	1424.2	1431.5
12.5°	1101.1	1098.4	1096.9	1116.9	1169.6	1251.8	1340.9	1431.5	1473.2	1482.1
15°	1151.7	1097.4	1064.7	1078.4	1150.6	1260.2	1369.9	1480.0	1526.9	1536.4
17.5°	1161.2	1078.9	1018.3	1027.8	1120.6	1262.9	1397.8	1527.5	1578.1	1587.0
20°	1134.8	1055.2	984.6	971.4	1082.6	1256.0	1415.2	1567.0	1622.3	1631.8
22.5°	1101.6	1034.1	959.3	925.0	1036.2	1249.2	1434.7	1608.6	1672.4	1680.9
25°	1066.8	1007.2	935.6	883.4	983.5	1245.0	1467.4	1663.5	1740.4	1750.4
27.5°	1029.9	974.6	915.0	863.4	935.0	1250.2	1513.8	1752.0	1839.5	1853.7
30°	990.4	941.9	901.8	856.5	901.8	1255.0	1564.9	1842.7	1945.4	1965.5
32.5°	949.3	911.8	888.1	859.7	881.3	1243.9	1609.7	1944.4	2071.9	2089.3
35°	908.2	881.3	870.7	865.5	853.9	1203.3	1646.1	2047.2	2216.4	2231.7
37.5°	869.7	849.7	846.5	852.3	811.7	1136.9	1688.2	2177.9	2358.2	2381.3
40°	833.8	815.4	814.9	813.8	765.3	1046.3	1745.2	2310.7	2497.8	2508.4
42.5°	800.6	777.4	781.7	769.0	727.4	948.2	1798.9	2424.0	2628.0	2635.4
45°	771.1	740.5	745.3	729.5	709.4	845.4	1846.4	2557.9	2793.0	2797.7
47.5°	742.7	710.0	696.8	695.7	706.3	750.6	1892.7	2815.7	3051.3	3059.7
50°	716.3	681.0	643.6	666.8	686.8	679.4	1950.7	3091.8	3318.0	3315.9
52.5°	691.0	644.6	591.4	636.2	636.2	626.7	1934.4	3259.5	3538.3	3574.7
55°	662.0	586.1	537.1	585.1	561.9	579.3	1645.0	3314.3	3676.9	3728.6
57.5°	604.6	513.9	471.2	497.0	462.2	537.1	1181.7	3042.3	3441.3	3533.0
60°	*549.2*	*460.7*	*432.7*	*428.0*	*382.7*	*438.0*	*765.8*	*2381.9*	*2832.5*	*2878.9*
62.5°	484.4	414.8	391.1	354.7	307.8	318.9	463.8	1567.5	1903.3	1913.8
65°	435.4	375.8	330.5	287.3	251.9	231.4	274.1	755.8	951.4	938.7
67.5°	373.7	322.0	278.8	247.7	218.7	192.9	182.4	224.5	254.1	245.6
70°	332.6	283.0	241.4	211.9	185.0	159.2	140.7	132.3	129.7	127.6
72.5°	286.7	243.5	200.3	171.8	146.5	122.8	105.9	95.9	93.3	91.2
75°	228.8	188.2	148.6	121.8	99.6	82.8	71.7	63.2	61.7	59.6
77.5°	151.3	120.7	88.5	72.2	59.0	50.1	42.7	37.4	36.4	35.3
80°	83.3	69.6	54.3	43.7	35.3	30.6	27.9	24.8	24.2	23.7
82.5°	49.5	41.6	31.1	24.8	20.6	18.4	16.9	15.3	14.8	14.2
85°	24.8	19.5	13.7	11.6	10.5	9.5	9.5	7.9	7.4	7.4
87.5°	6.3	5.3	3.2	2.6	2.6	2.6	2.1	1.6	1.6	1.1
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.

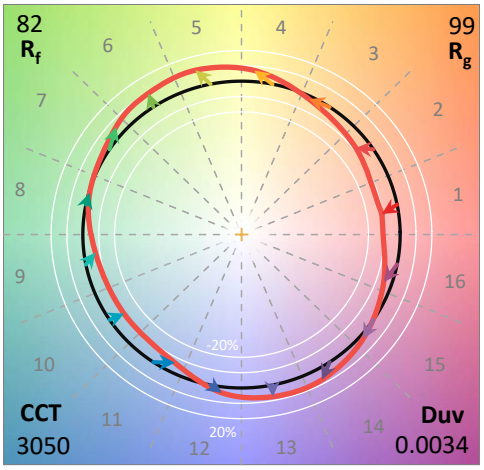
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

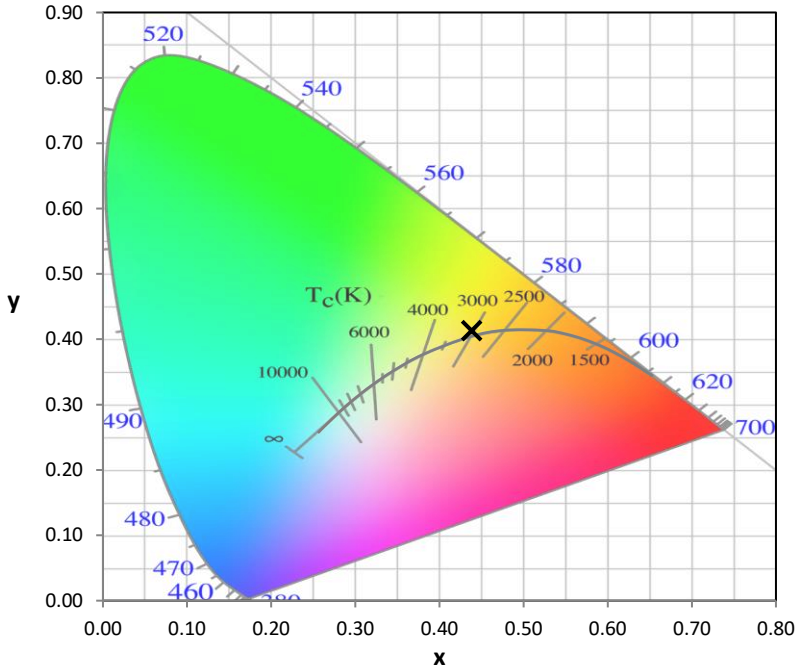
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

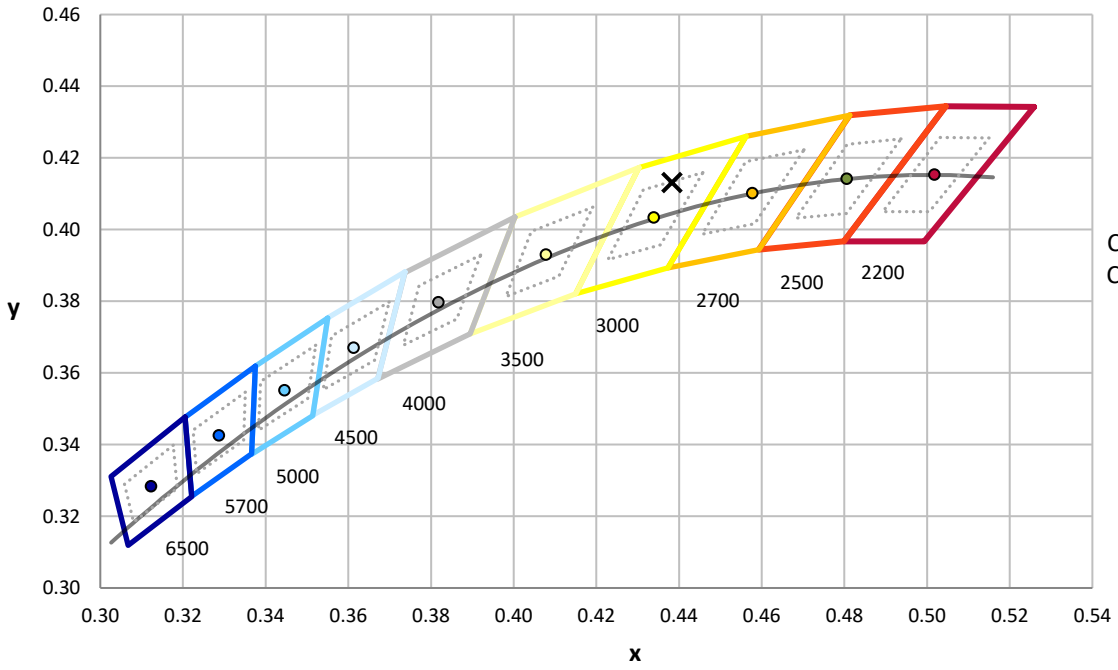
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

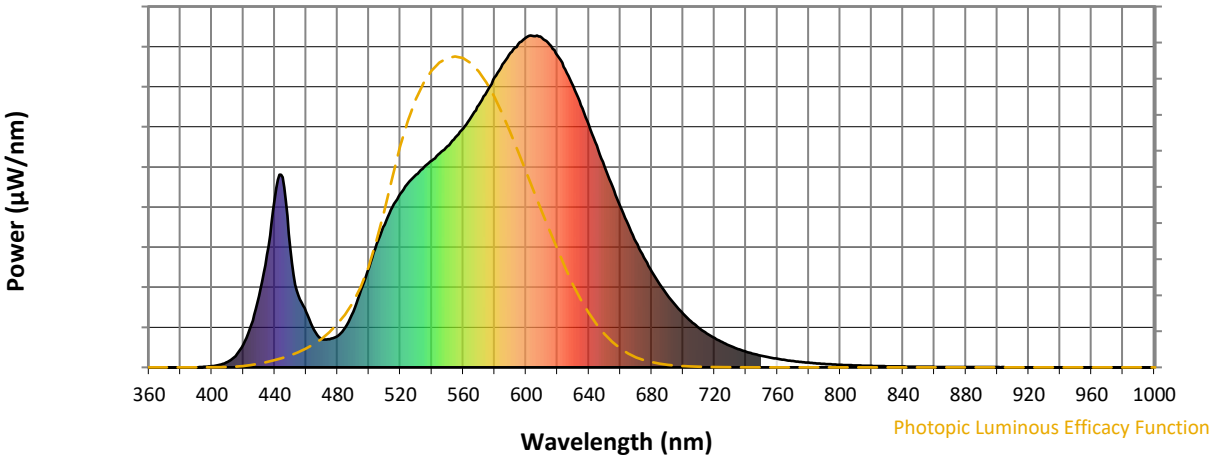


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

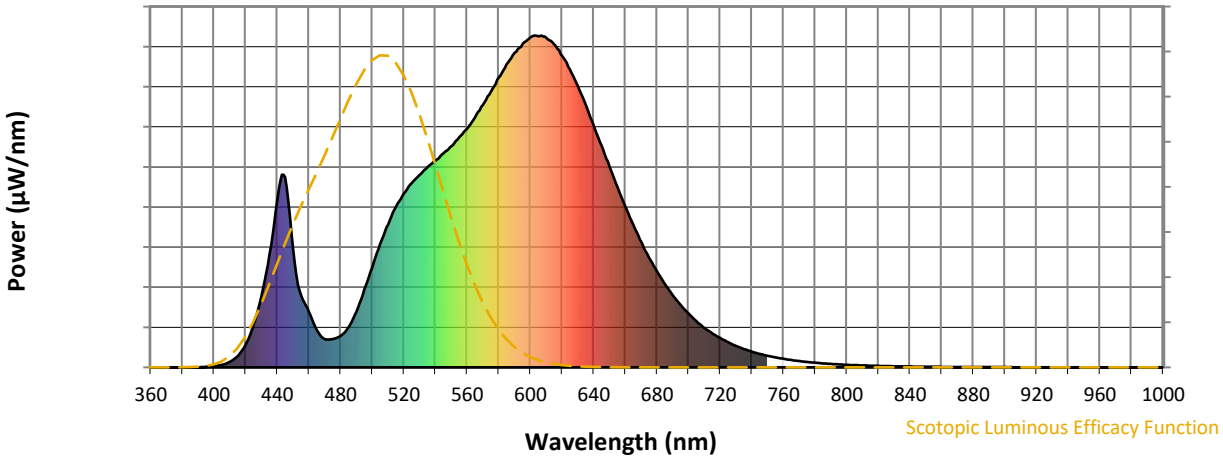


Photopic Lumens: NR

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

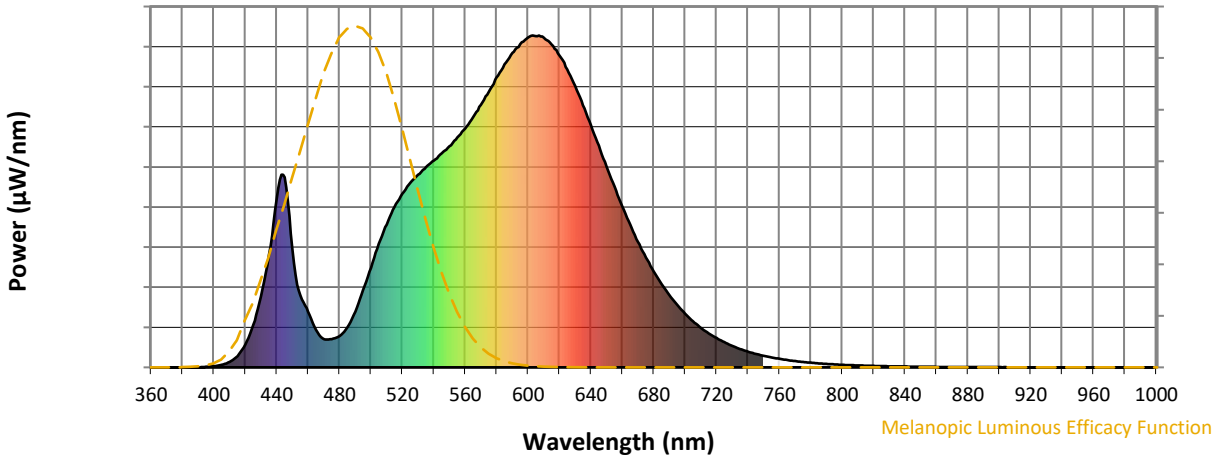


Scotopic Lumens: NR **S/P: 1.27**

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			

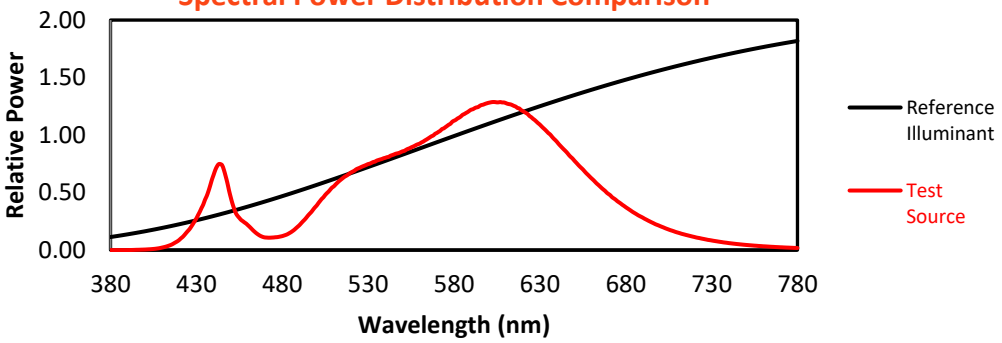
REPORT NUMBER: SP1-2408-195-9

TM-30-18

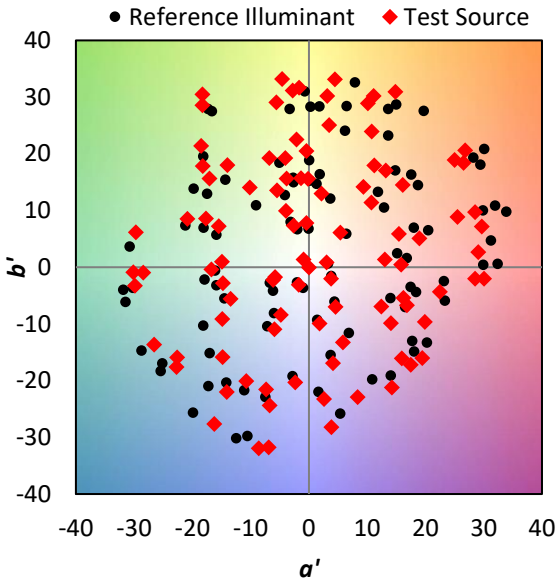
Summary

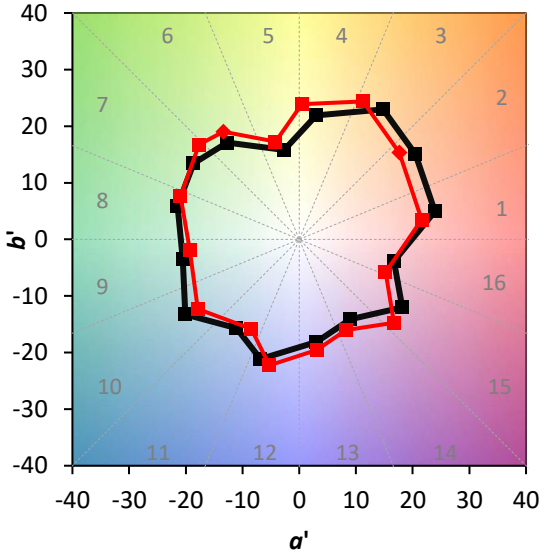
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

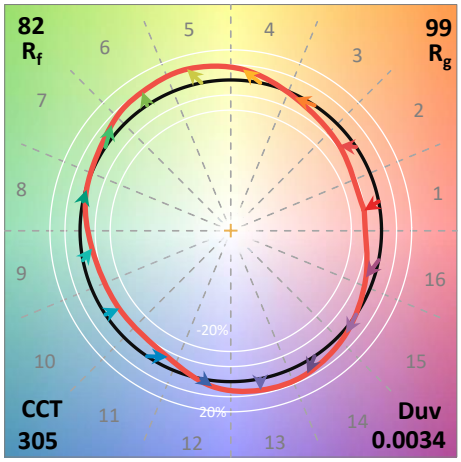
Spectral Power Distribution Comparison

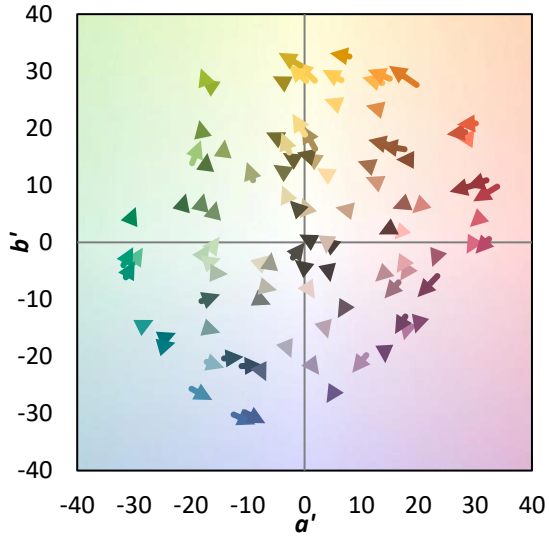


Color Vector Graphics









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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CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
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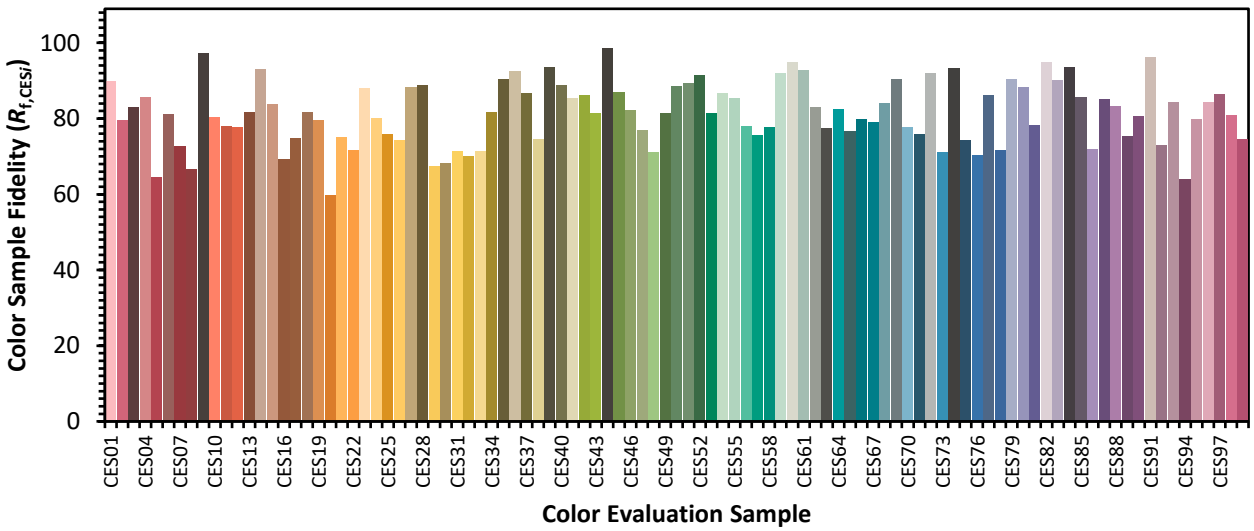

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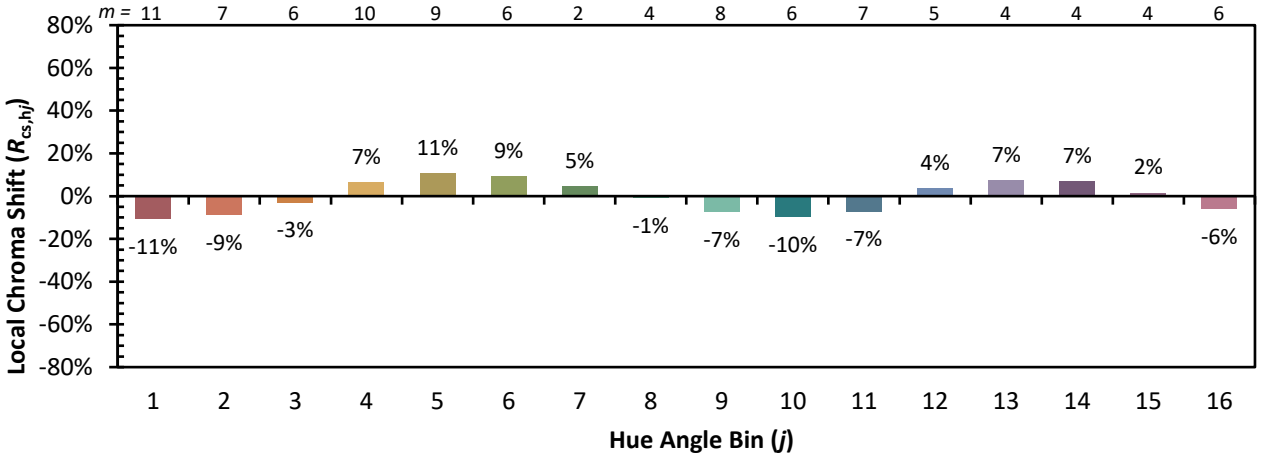
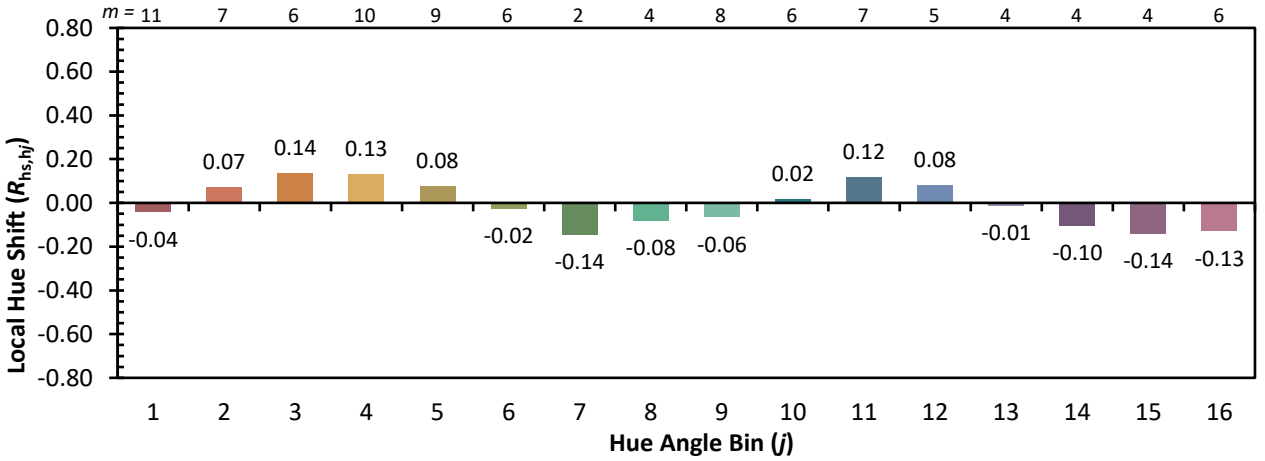
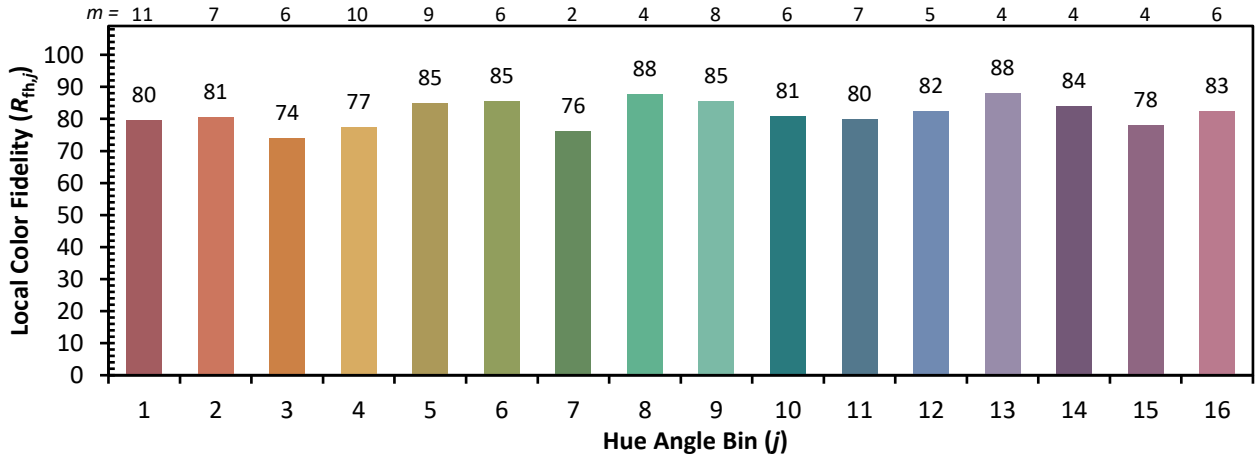
Color Rendition by Hue-Angle Bin







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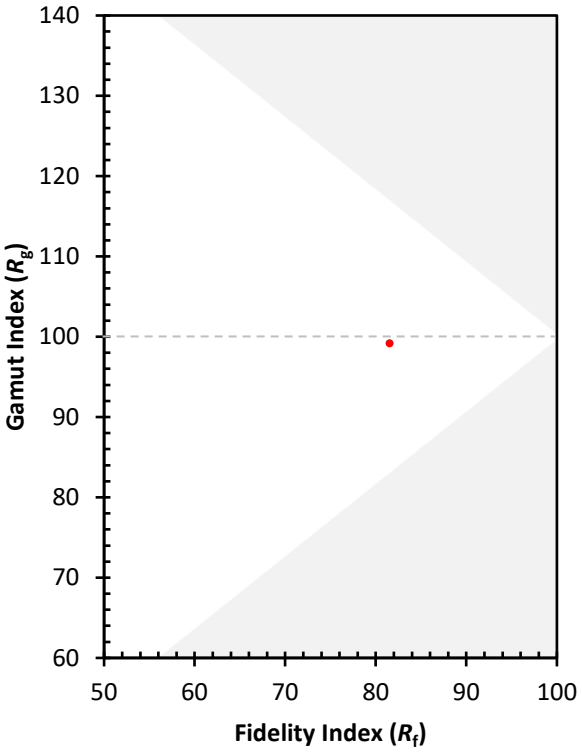
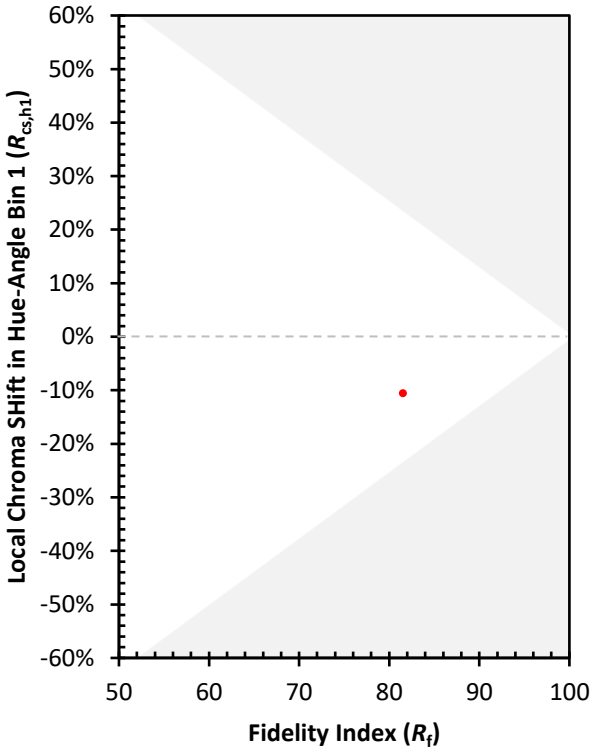
Measure Comparisons





(END OF REPORT)