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: P642439

Luminaire Tested: GWS-SA6C-830-U-SLL-W-GRSBK

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:	P642439
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-SLL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12095.2 lumens
Efficiency:	N/A
Efficacy:	63.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2
Input Watts (W):	189.2
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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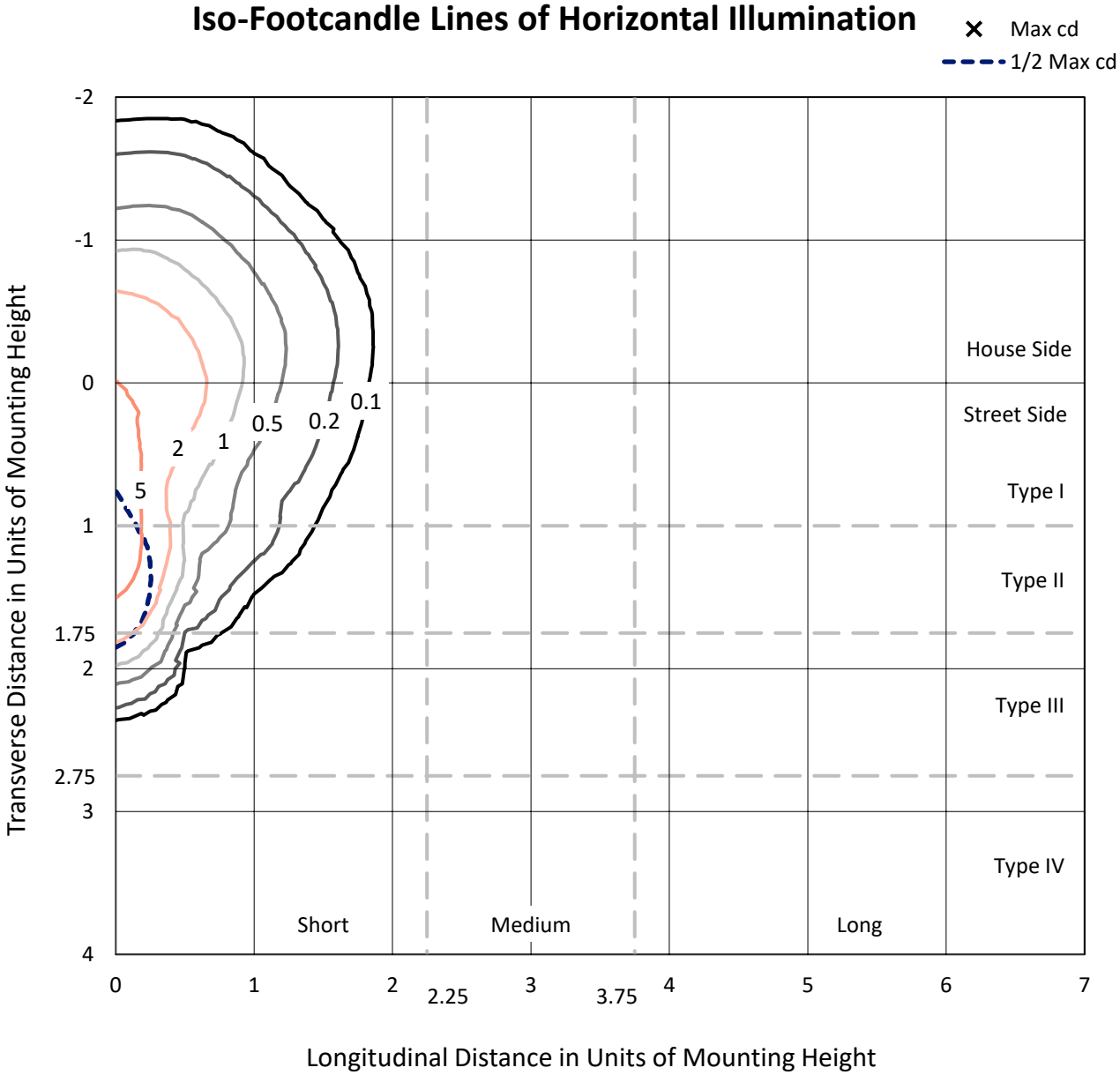
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Short - N/A

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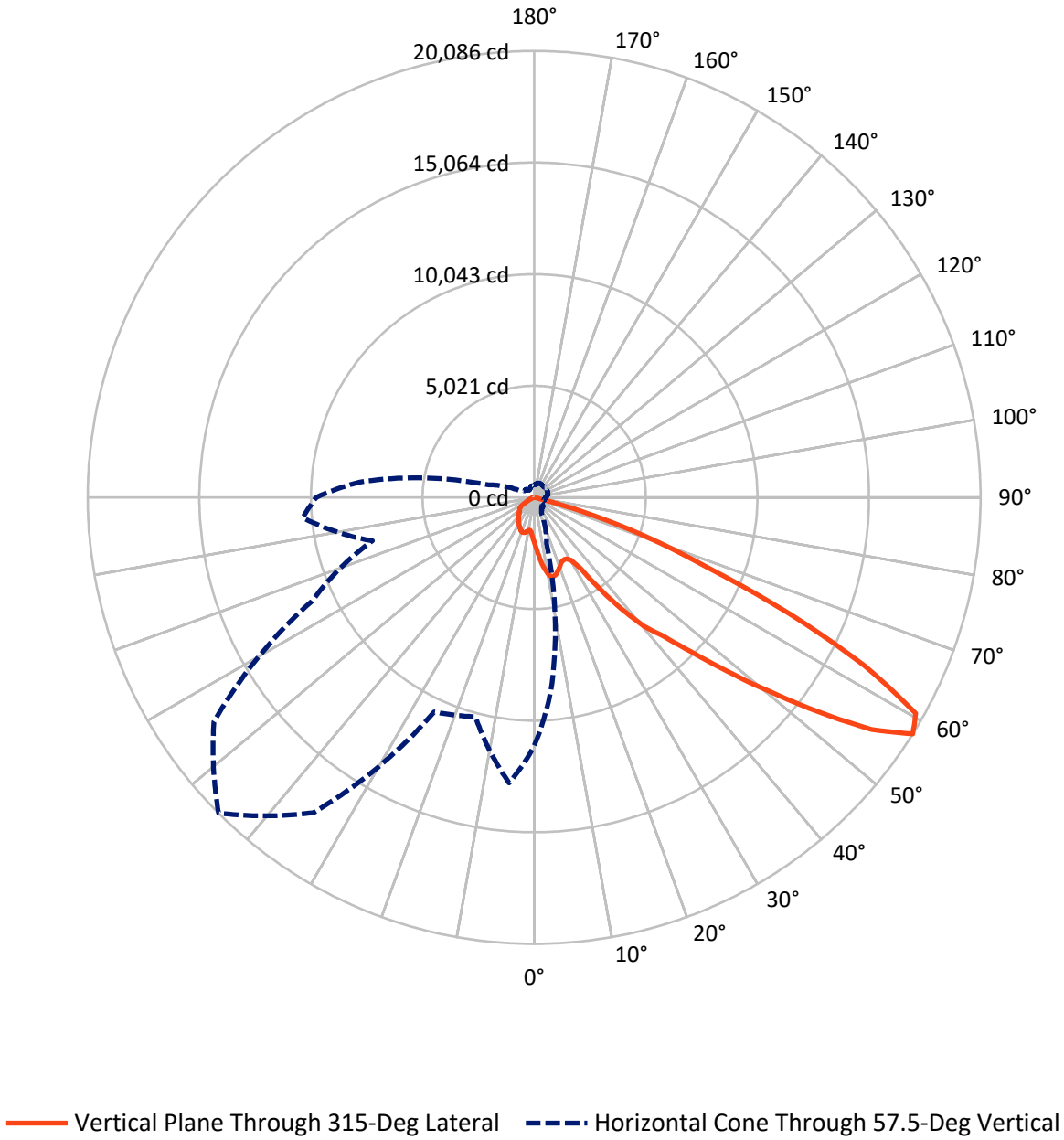
Luminous Intensity Polar Plot



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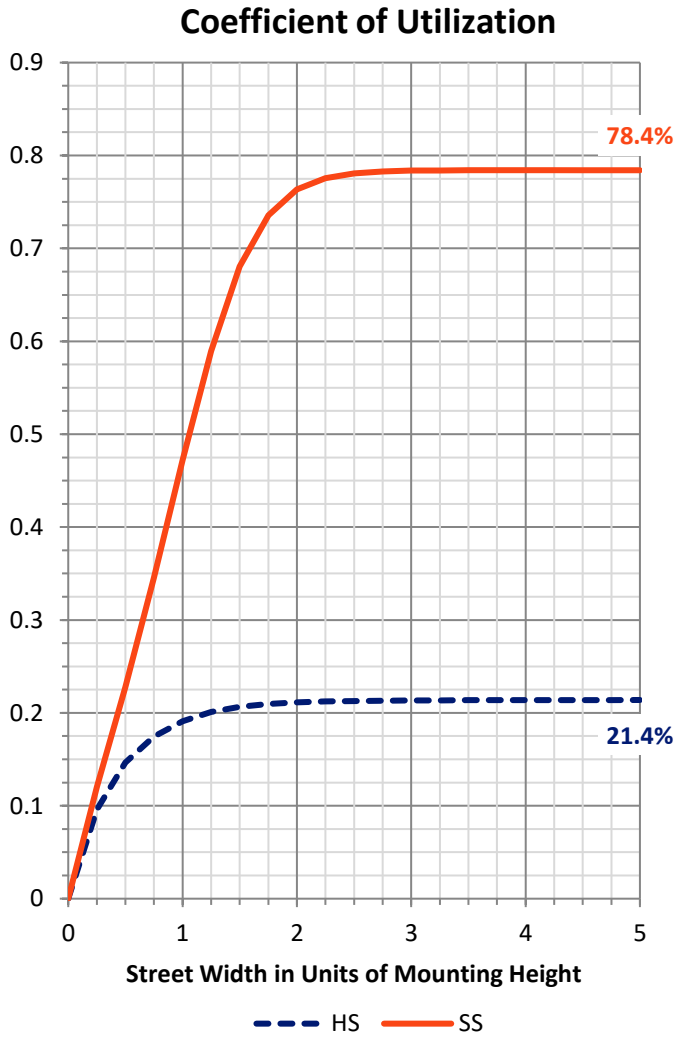
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.7	0.0	2605.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9489.5	0.0	9489.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	12095.2	0.0	12095.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.7
10°-20°	668.4	5.5
20°-30°	1084.7	9.0
30°-40°	1664.8	13.8
40°-50°	2658.8	22.0
50°-60°	3722.8	30.8
60°-70°	1908.8	15.8
70°-80°	183.8	1.5
80°-90°	0.0	0.0
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°	12095.2	100.0
0°-180°	12095.2	100.0



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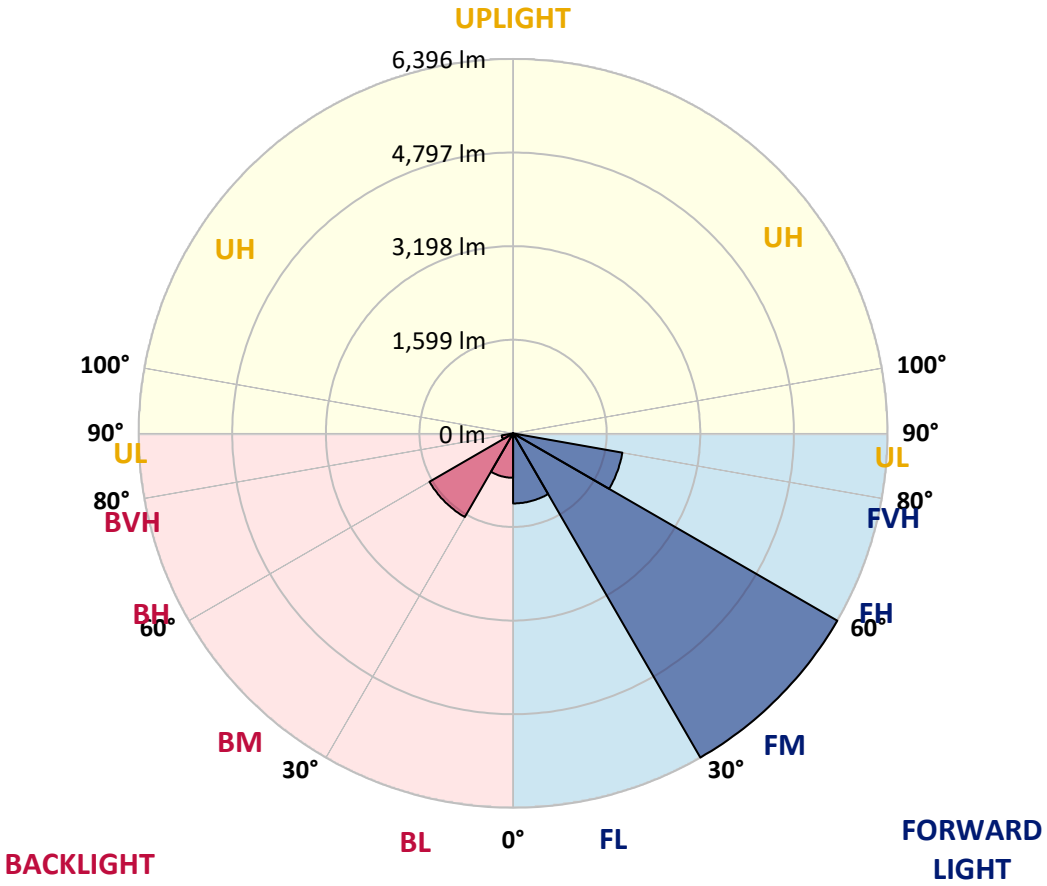
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1197.5	9.9			
FM	(30°-60°)	6396.2	52.9			
FH	(60°-80°)	1895.8	15.7			G2/5000
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	758.7	6.3	B2/1000		
BM	(30°-60°)	1650.2	13.6	B2/2500		
BH	(60°-80°)	196.8	1.6	B1/500		G1/500
BVH	(80°-90°)	0.0	0.0			G0/10
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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	2283.1	2278.3	2262.1	2207.1	2173.2	2119.8	2081.0	2030.9	1975.9	1942.0	1908.0
5°	2525.7	2512.8	2469.1	2343.0	2246.0	2140.9	2056.8	1964.6	1866.0	1801.3	1741.5
7.5°	2758.5	2739.1	2680.9	2467.5	2320.3	2170.0	2050.3	1916.1	1777.0	1680.0	1605.6
10°	2986.5	2942.9	2850.7	2588.7	2389.9	2208.8	2068.1	1914.5	1751.2	1628.3	1545.8
12.5°	3174.1	3141.7	3015.6	2703.6	2448.1	2216.8	2043.8	1901.5	1791.6	1709.1	1633.1
15°	3335.8	3300.2	3180.6	2807.0	2498.2	2184.5	1942.0	1817.5	1835.2	1867.6	1802.9
17.5°	3484.5	3447.4	3318.0	2892.7	2517.6	2105.3	1799.7	1739.8	1838.5	1959.8	1935.5
20°	3638.2	3596.1	3437.7	2962.3	2511.1	1980.8	1655.8	1673.6	1812.6	1951.7	1964.6
22.5°	3817.6	3774.0	3589.6	3051.2	2506.3	1832.0	1531.3	1615.3	1764.1	1882.1	1904.8
25°	4055.3	4003.6	3801.5	3182.2	2519.2	1696.2	1442.3	1558.7	1681.6	1788.4	1801.3
27.5°	4369.0	4302.7	4045.6	3343.9	2546.7	1589.5	1403.5	1481.1	1576.5	1671.9	1683.3
30°	4778.1	4694.0	4325.4	3484.5	2533.8	1515.1	1377.6	1403.5	1460.1	1537.7	1539.3
32.5°	5256.7	5141.9	4639.1	3605.8	2422.2	1460.1	1342.1	1324.3	1337.2	1397.1	1408.4
35°	5819.4	5670.7	4985.1	3720.6	2218.5	1353.4	1277.4	1217.6	1212.7	1241.8	1269.3
37.5°	6464.6	6286.7	5421.7	3867.8	1977.5	1241.8	1182.0	1122.2	1096.3	1110.9	1152.9
40°	7059.6	6862.4	5877.6	4045.6	1731.8	1141.6	1070.4	1009.0	978.3	983.1	1034.9
42.5°	7758.2	7554.4	6435.5	4278.5	1528.0	1073.7	954.0	890.9	850.5	873.2	933.0
45°	8818.9	8587.7	7248.8	4480.6	1366.3	1057.5	852.1	763.2	743.8	782.6	853.8
47.5°	10267.7	9984.7	8366.1	4603.5	1228.9	1072.0	781.0	659.7	664.6	708.2	779.4
50°	11705.2	11399.6	9658.1	4441.8	1115.7	1042.9	745.4	578.9	609.6	648.4	713.1
52.5°	12693.1	12295.3	10287.1	3974.5	1012.2	933.0	742.2	502.9	561.1	574.0	629.0
55°	12731.9	12242.0	9965.3	3133.7	871.5	787.5	708.2	439.8	507.7	512.6	559.5
57.5°	*11160.2*	*10717.2*	*8708.9*	*2152.2*	*774.5*	*577.3*	*564.3*	*384.8*	*417.2*	*457.6*	*486.7*
60°	8490.6	8113.9	6513.1	986.3	588.6	367.0	386.5	331.5	312.1	371.9	401.0
62.5°	5200.1	4959.2	3906.6	436.6	375.1	195.7	234.5	263.6	234.5	257.1	281.4
65°	2064.9	1958.1	1482.8	186.0	153.6	98.6	106.7	153.6	164.9	181.1	203.7
67.5°	359.0	339.6	249.0	82.5	63.1	59.8	51.7	71.1	100.3	111.6	129.4
70°	46.9	45.3	40.4	34.0	32.3	29.1	22.6	45.3	67.9	71.1	82.5
72.5°	11.3	9.7	9.7	8.1	9.7	3.2	3.2	24.3	48.5	50.1	58.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	30.7	34.0	40.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	1880.5	1848.2	1836.9	1820.7	1799.7	1806.1	1777.0	1767.3	1781.9	1801.3	1796.4
5°	1709.1	1673.6	1649.3	1612.1	1605.6	1591.1	1581.4	1568.4	1584.6	1607.3	1612.1
7.5°	1573.3	1542.6	1518.3	1507.0	1498.9	1492.5	1473.0	1463.3	1463.3	1473.0	1481.1
10°	1515.1	1492.5	1487.6	1490.8	1503.8	1502.2	1484.4	1471.4	1455.3	1447.2	1456.9
12.5°	1595.9	1558.7	1552.3	1553.9	1570.1	1568.4	1549.0	1532.9	1529.6	1532.9	1563.6
15°	1733.4	1676.8	1634.7	1626.7	1634.7	1631.5	1617.0	1607.3	1612.1	1659.0	1710.7
17.5°	1856.3	1769.0	1693.0	1663.8	1662.2	1657.4	1642.8	1639.6	1663.8	1751.2	1827.2
20°	1891.8	1806.1	1697.8	1660.6	1652.5	1647.7	1631.5	1636.4	1667.1	1772.2	1836.9
22.5°	1844.9	1762.5	1649.3	1612.1	1605.6	1604.0	1587.9	1594.3	1620.2	1712.4	1765.7
25°	1756.0	1686.5	1568.4	1536.1	1536.1	1532.9	1518.3	1521.6	1537.7	1618.6	1670.3
27.5°	1647.7	1581.4	1482.8	1450.4	1455.3	1460.1	1442.3	1437.5	1450.4	1526.4	1557.1
30°	1523.2	1476.3	1398.7	1369.6	1367.9	1387.4	1363.1	1356.6	1374.4	1434.2	1440.7
32.5°	1401.9	1379.3	1324.3	1301.7	1303.3	1306.5	1293.6	1293.6	1309.7	1342.1	1340.5
35°	1283.9	1269.3	1259.6	1243.4	1241.8	1235.4	1235.4	1238.6	1256.4	1267.7	1246.7
37.5°	1170.7	1185.2	1196.5	1180.4	1167.4	1167.4	1167.4	1182.0	1198.2	1193.3	1157.7
40°	1070.4	1101.1	1136.7	1118.9	1088.2	1086.6	1093.1	1117.3	1141.6	1112.5	1080.1
42.5°	984.7	1023.5	1073.7	1064.0	1030.0	1025.2	1030.0	1060.7	1080.1	1042.9	1007.4
45°	900.6	949.2	1009.0	1009.0	971.8	966.9	968.6	1009.0	1020.3	976.6	931.4
47.5°	829.5	882.9	945.9	945.9	915.2	905.5	913.6	955.6	963.7	902.3	860.2
50°	761.6	819.8	889.3	884.5	863.5	855.4	869.9	915.2	905.5	837.6	793.9
52.5°	675.9	737.3	832.7	837.6	826.3	827.9	845.7	874.8	847.3	764.8	727.6
55°	598.3	661.3	756.7	782.6	782.6	781.0	789.1	811.7	789.1	690.4	645.2
57.5°	*514.2*	*567.6*	*646.8*	*653.3*	*658.1*	*640.3*	*651.6*	*682.4*	*671.0*	*587.0*	*561.1*
60°	422.0	467.3	512.6	517.4	496.4	459.2	480.2	515.8	523.9	460.8	431.7
62.5°	299.1	342.8	396.2	396.2	375.1	337.9	365.4	396.2	384.8	320.2	302.4
65°	223.1	263.6	304.0	321.8	304.0	278.1	299.1	321.8	304.0	250.6	224.8
67.5°	143.9	171.4	195.7	210.2	213.4	210.2	219.9	213.4	192.4	156.8	142.3
70°	87.3	101.9	114.8	127.7	137.4	142.3	147.1	132.6	111.6	92.2	87.3
72.5°	63.1	76.0	87.3	97.0	108.3	111.6	111.6	101.9	82.5	64.7	59.8
75°	43.7	55.0	64.7	71.1	80.8	84.1	84.1	76.0	61.4	46.9	42.0
77.5°	1.6	11.3	11.3	9.7	12.9	16.2	16.2	19.4	17.8	12.9	11.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	1806.1	1864.4	1880.5	1940.3	1993.7	2047.1	2111.7	2150.6	2208.8	2249.2	2271.8
5°	1628.3	1676.8	1735.0	1823.9	1916.1	2018.0	2140.9	2247.6	2381.8	2480.4	2512.8
7.5°	1498.9	1562.0	1629.9	1741.5	1867.6	2003.4	2176.4	2351.1	2556.4	2690.6	2776.3
10°	1474.7	1539.3	1629.9	1739.8	1872.4	2027.7	2239.5	2465.9	2723.0	2886.3	2983.3
12.5°	1591.1	1660.6	1699.4	1749.5	1849.8	2022.8	2294.5	2582.3	2884.7	3062.5	3166.0
15°	1762.5	1823.9	1760.9	1697.8	1762.5	1971.1	2325.2	2679.3	3026.9	3232.3	3339.0
17.5°	1880.5	1885.4	1747.9	1613.7	1631.5	1877.3	2336.5	2776.3	3178.9	3394.0	3505.6
20°	1869.2	1830.4	1691.3	1542.6	1487.6	1756.0	2323.6	2862.0	3332.6	3557.3	3667.3
22.5°	1781.9	1736.6	1618.6	1473.0	1366.3	1612.1	2300.9	2939.6	3473.2	3728.7	3832.2
25°	1676.8	1628.3	1531.3	1403.5	1288.7	1473.0	2283.1	3046.3	3651.1	3951.8	4032.7
27.5°	1553.9	1511.9	1429.4	1337.2	1256.4	1367.9	2278.3	3187.0	3866.1	4223.5	4280.1
30°	1434.2	1395.4	1330.8	1277.4	1243.4	1306.5	2262.1	3337.4	4123.2	4535.6	4597.0
32.5°	1319.4	1280.6	1240.2	1232.1	1233.7	1283.9	2207.1	3486.2	4428.8	4988.3	5033.6
35°	1220.8	1175.5	1159.4	1178.8	1214.3	1245.1	2051.9	3609.1	4757.1	5481.5	5518.7
37.5°	1127.0	1081.7	1080.1	1127.0	1165.8	1185.2	1869.2	3730.3	5200.1	5982.7	6029.6
40°	1041.3	996.0	1012.2	1068.8	1099.5	1109.2	1647.7	3914.7	5669.1	6511.5	6485.6
42.5°	968.6	921.7	931.4	1004.1	1031.6	1057.5	1443.9	4068.3	6120.2	7012.7	7004.7
45°	897.4	861.8	855.4	934.6	958.9	1062.3	1295.2	4186.3	6700.7	7651.4	7664.4
47.5°	827.9	800.4	802.0	836.0	895.8	1086.6	1169.1	4263.9	7543.1	8663.7	8438.9
50°	764.8	743.8	761.6	722.8	855.4	1055.9	1060.7	4247.7	8484.2	9633.8	9182.7
52.5°	695.3	690.4	698.5	604.7	790.7	931.4	958.9	4032.7	8925.6	10296.8	10039.7
55°	624.1	622.5	557.9	483.5	661.3	743.8	821.4	3364.9	8911.1	10649.3	10961.4
57.5°	*540.1*	*527.1*	*423.6*	*394.5*	*514.2*	*517.4*	*748.7*	*2203.9*	*7897.2*	*9805.2*	*10452.0*
60°	409.1	399.4	310.5	320.2	359.0	331.5	596.7	1097.9	5901.9	7638.5	8367.8
62.5°	283.0	270.0	231.2	247.4	231.2	189.2	365.4	543.3	3575.1	4823.4	5484.7
65°	207.0	192.4	158.5	135.8	108.3	108.3	139.1	208.6	1384.1	2050.3	2472.3
67.5°	127.7	121.3	93.8	67.9	66.3	71.1	72.8	103.5	223.1	355.7	435.0
70°	82.5	76.0	63.1	43.7	40.4	42.0	43.7	48.5	56.6	61.4	74.4
72.5°	56.6	53.4	45.3	24.3	19.4	21.0	22.6	22.6	27.5	25.9	30.7
75°	40.4	37.2	32.3	11.3	6.5	8.1	9.7	8.1	9.7	6.5	8.1
77.5°	11.3	11.3	8.1	1.6	0.0	1.6	3.2	3.2	1.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P642439
CATALOG NUMBER: GWS-SA6C-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2055.2	2055.2	2055.2	*2055.2*	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	2330.0	2367.2	2381.8	*2360.8*	2378.5	2349.4	2338.1	2294.5	2291.2	2283.1
5°	2643.7	2727.8	2777.9	*2808.7*	2773.1	2734.3	2676.1	2575.8	2545.1	2525.7
7.5°	2952.6	3083.5	3169.2	*3209.7*	3200.0	3120.7	3015.6	2847.5	2787.6	2758.5
10°	3221.0	3381.1	3484.5	*3534.7*	3513.6	3444.1	3293.7	3083.5	3004.3	2986.5
12.5°	3408.5	3555.7	3626.8	*3670.5*	3672.1	3644.6	3502.3	3290.5	3196.7	3174.1
15°	3526.6	3589.6	3591.3	*3617.1*	3662.4	3723.9	3657.6	3470.0	3369.7	3335.8
17.5°	3601.0	3531.4	3460.3	*3466.8*	3541.1	3704.5	3772.4	3628.5	3521.7	3484.5
20°	3654.3	3434.4	3301.8	*3303.4*	3379.4	3626.8	3851.6	3782.1	3672.1	3638.2
22.5°	3688.3	3348.7	3159.5	*3154.7*	3235.5	3534.7	3924.4	3964.8	3856.4	3817.6
25°	3757.8	3308.3	3073.8	*3101.3*	3172.5	3505.6	4023.0	4207.3	4107.1	4055.3
27.5°	3882.3	3348.7	3065.8	*3128.8*	3209.7	3591.3	4194.4	4530.7	4427.2	4369.0
30°	4097.4	3500.7	3190.3	*3277.6*	3374.6	3816.0	4482.2	4981.8	4833.1	4778.1
32.5°	4443.4	3816.0	3575.1	*3762.7*	3856.4	4184.7	4913.9	5488.0	5366.7	5256.7
35°	4920.4	4535.6	4508.1	*4944.7*	4922.0	4883.2	5444.3	6108.9	5926.2	5819.4
37.5°	5576.9	5693.3	5897.0	*6330.4*	6315.8	6019.9	6141.2	6695.8	6602.0	6464.6
40°	6396.7	6644.1	6990.1	*7611.0*	7417.0	7045.1	6996.6	7297.3	7221.3	7059.6
42.5°	6880.2	7307.0	7966.8	*8524.6*	8369.4	7719.4	7664.4	8101.0	7934.4	7758.2
45°	7104.9	7847.1	9140.7	*9895.8*	9425.2	8167.3	8146.2	9148.7	9055.0	8818.9
47.5°	7208.4	8392.0	10515.1	*11658.3*	10778.6	8560.2	8484.2	10668.7	10545.8	10267.7
50°	7323.2	9143.9	12170.8	*13700.5*	12413.4	9004.8	9059.8	12085.1	12033.4	11705.2
52.5°	7575.4	9939.4	14209.8	*16035.4*	14395.8	9701.7	10047.8	13420.8	13071.5	12693.1
55°	7953.8	10806.1	16331.3	*18420.4*	16418.6	10638.0	11116.6	14130.6	13150.7	12731.9
57.5°	*7535.0*	*11022.8*	*17587.7*	*20085.9*	*17316.0*	*10641.2*	*10212.7*	*12900.1*	*11566.1*	*11160.2*
60°	5979.5	10254.7	17104.2	*19725.3*	16551.2	9449.5	7819.6	10072.0	8762.3	8490.6
62.5°	4042.4	8600.6	15057.1	*16682.2*	14166.2	7433.2	5082.1	6550.3	5424.9	5200.1
65°	2215.2	6416.1	12166.0	*12620.4*	11087.5	5192.1	2614.6	2842.6	2165.1	2064.9
67.5°	611.2	4466.0	8951.5	*8372.6*	7779.2	3381.1	675.9	507.7	362.2	359.0
70°	153.6	2954.2	5363.4	*5528.4*	4770.0	2165.1	129.4	61.4	48.5	46.9
72.5°	64.7	1270.9	2545.1	*2925.1*	2441.6	1002.5	46.9	17.8	14.6	11.3
75°	8.1	101.9	216.7	*328.2*	224.8	108.3	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	*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

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.

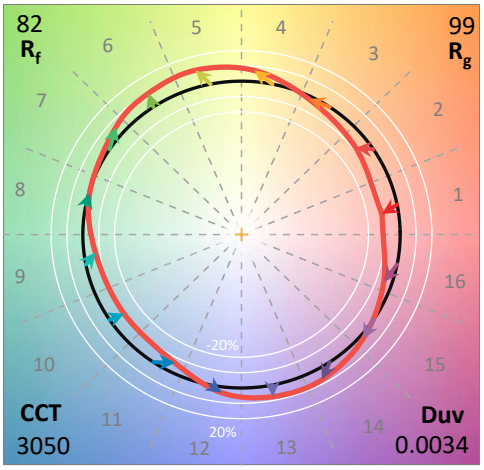
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

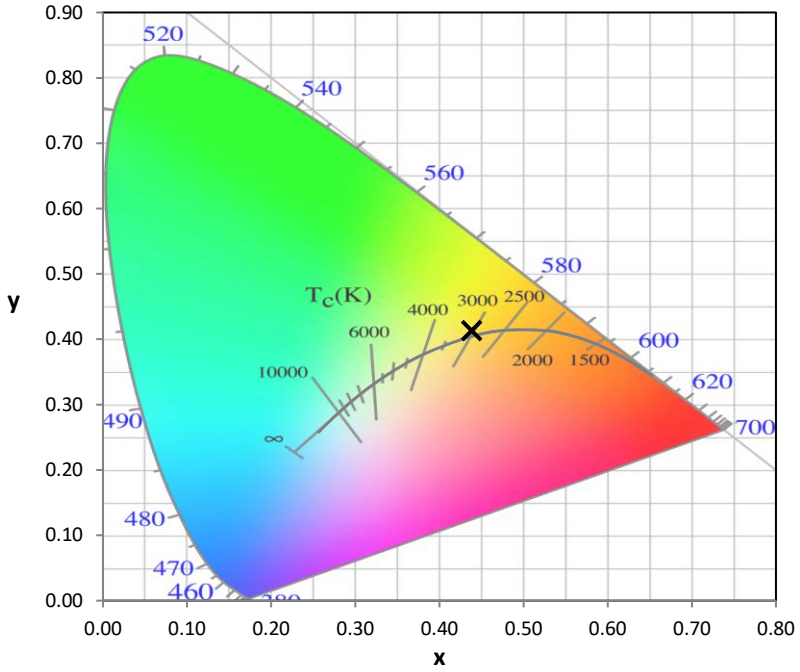
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

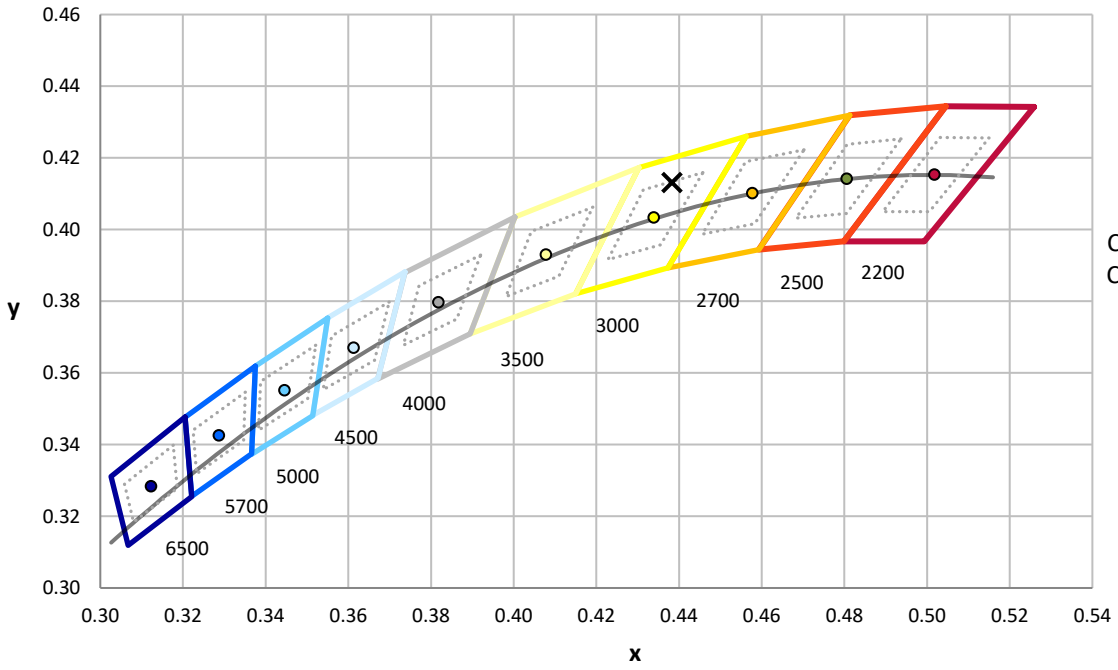
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

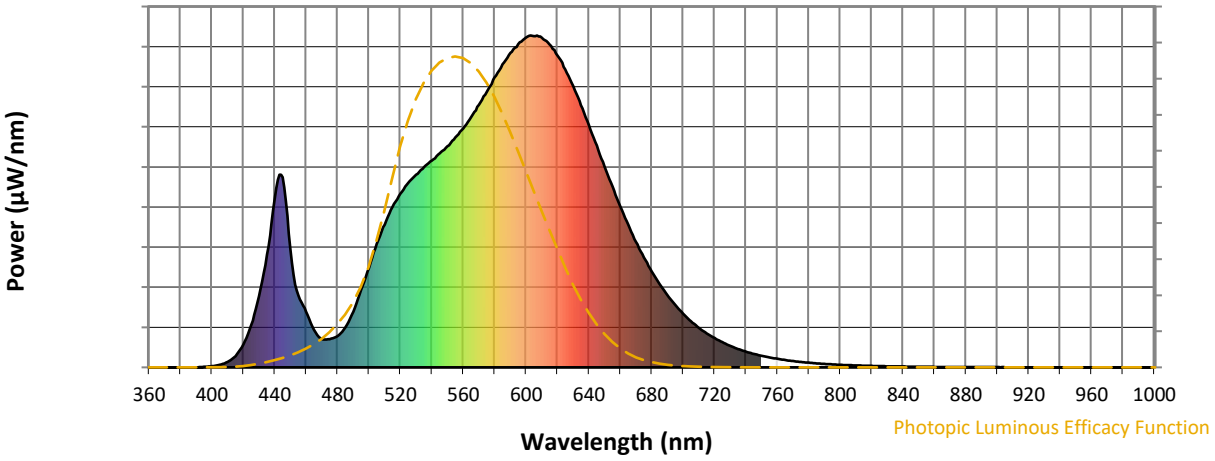


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

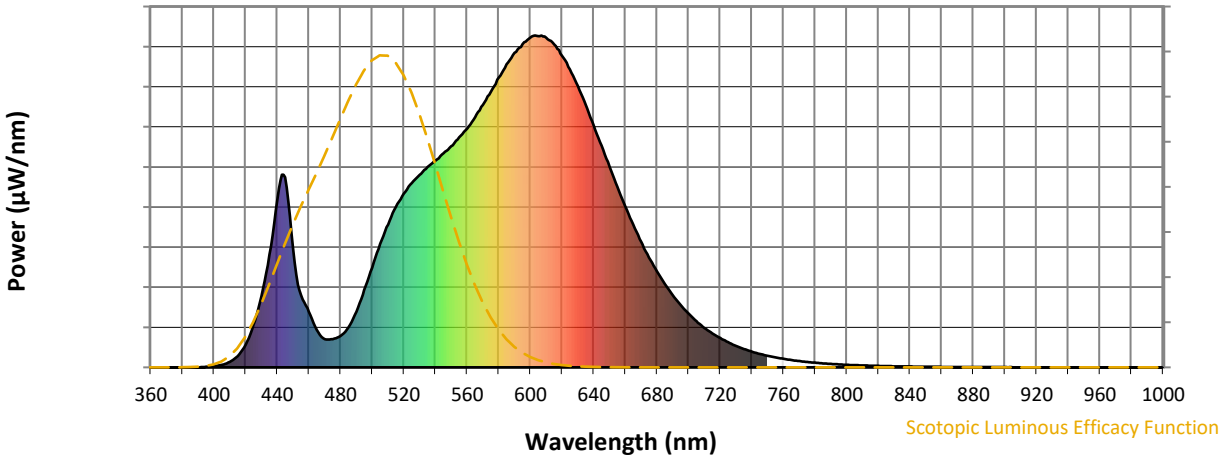


Photopic Lumens: NR

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

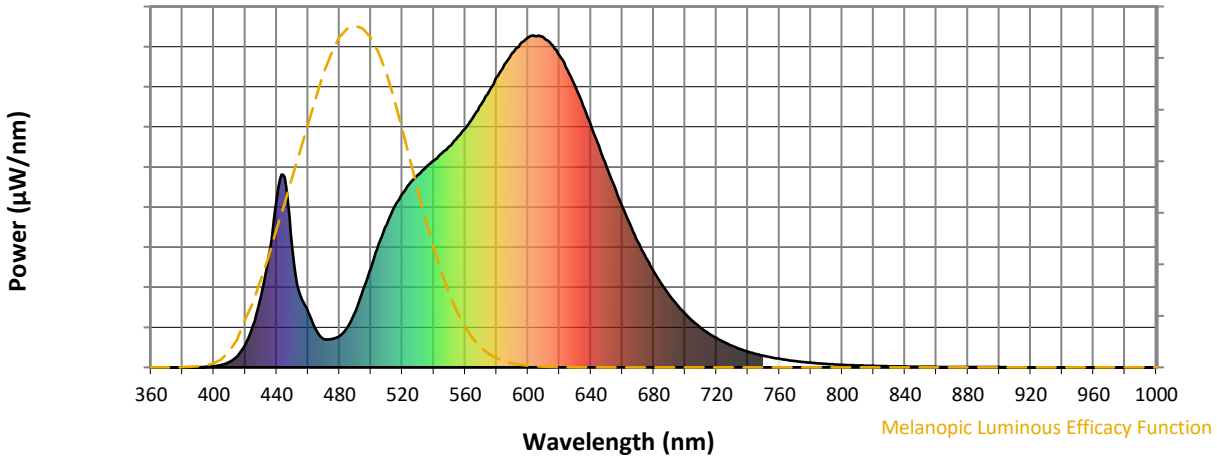


Scotopic Lumens: NR **S/P: 1.27**

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			

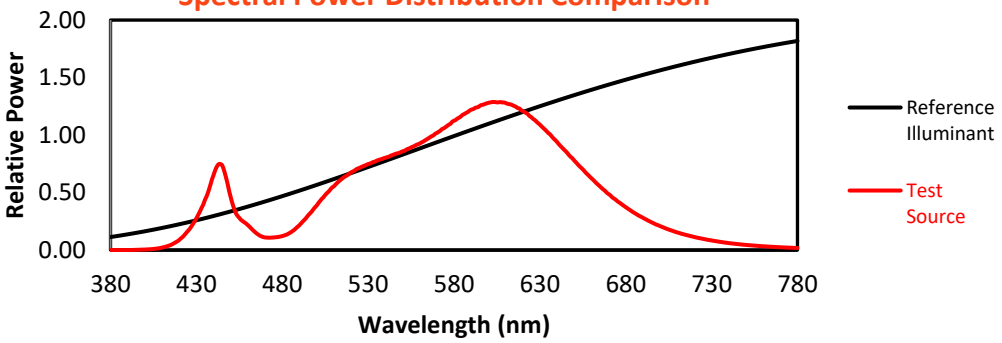
REPORT NUMBER: SP1-2408-195-9

TM-30-18

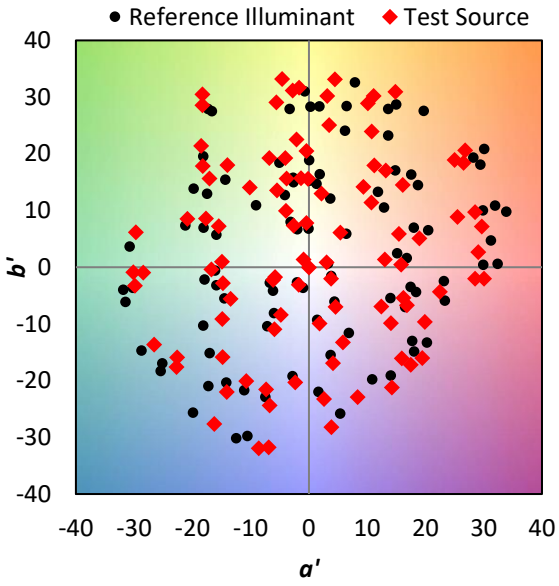
Summary

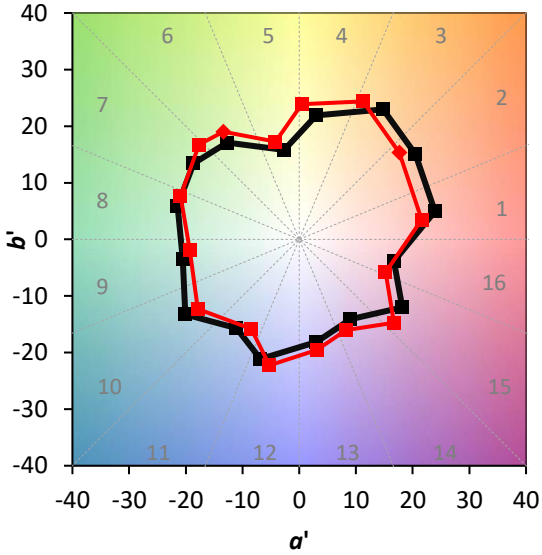
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

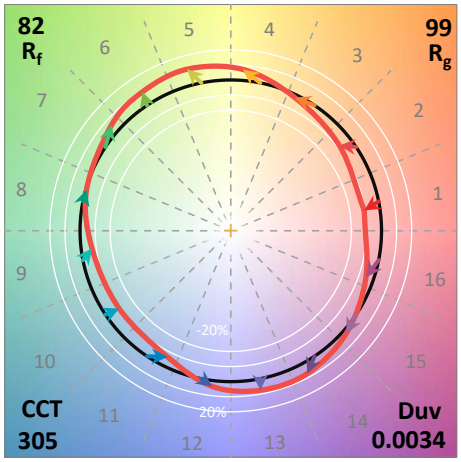
Spectral Power Distribution Comparison

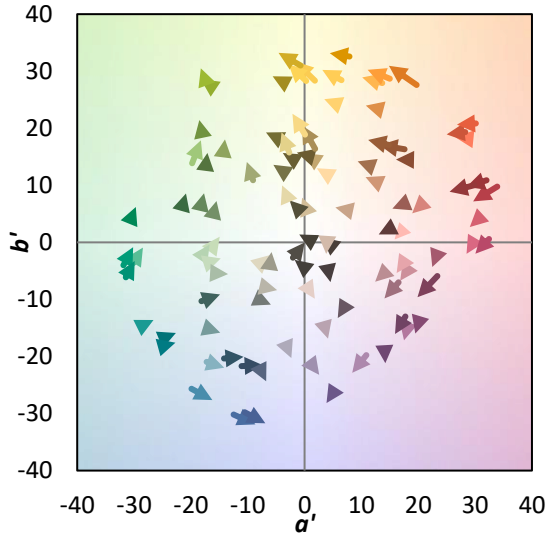


Color Vector Graphics









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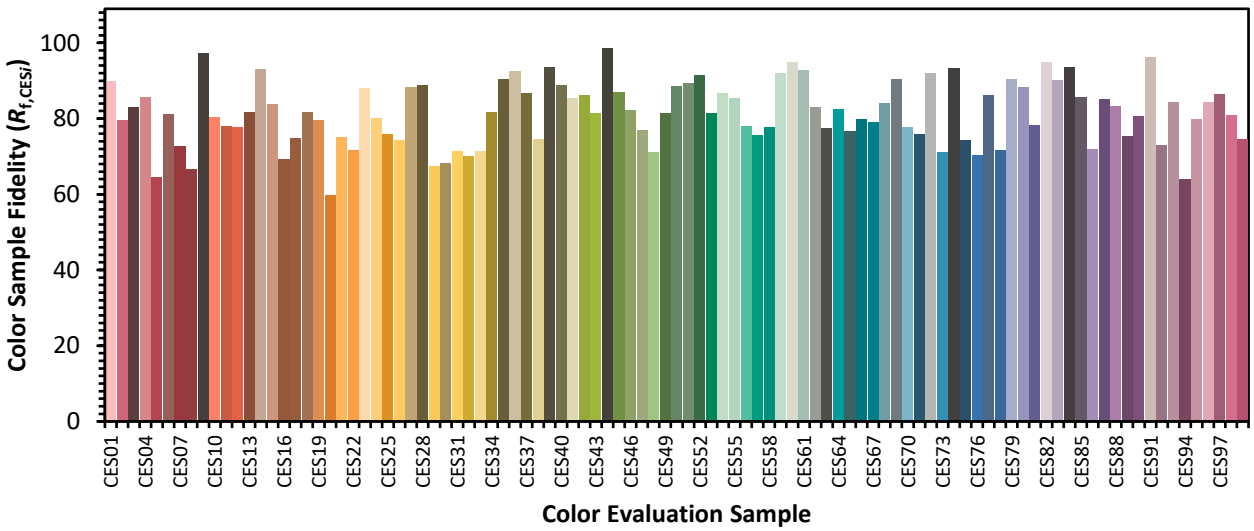

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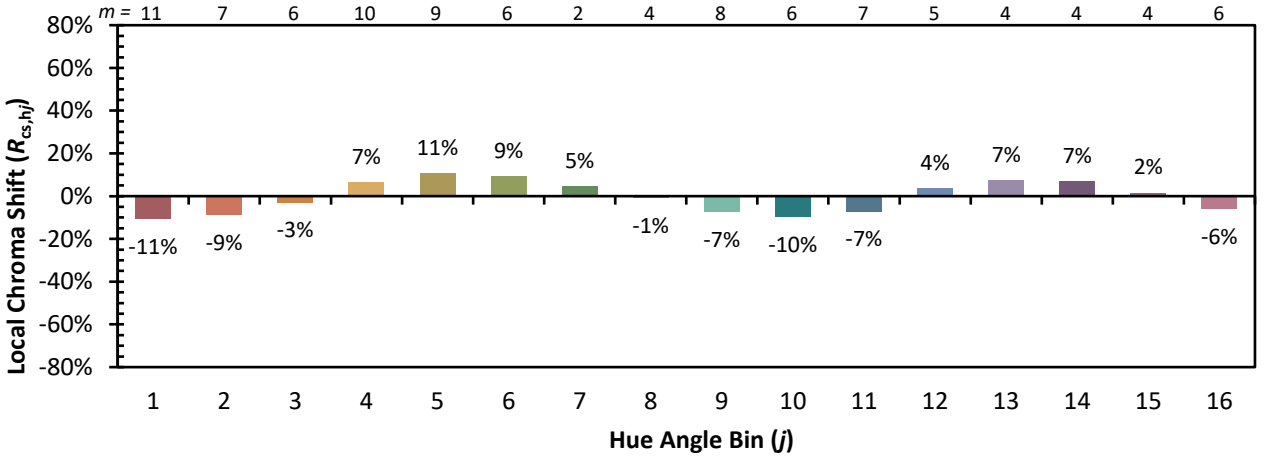
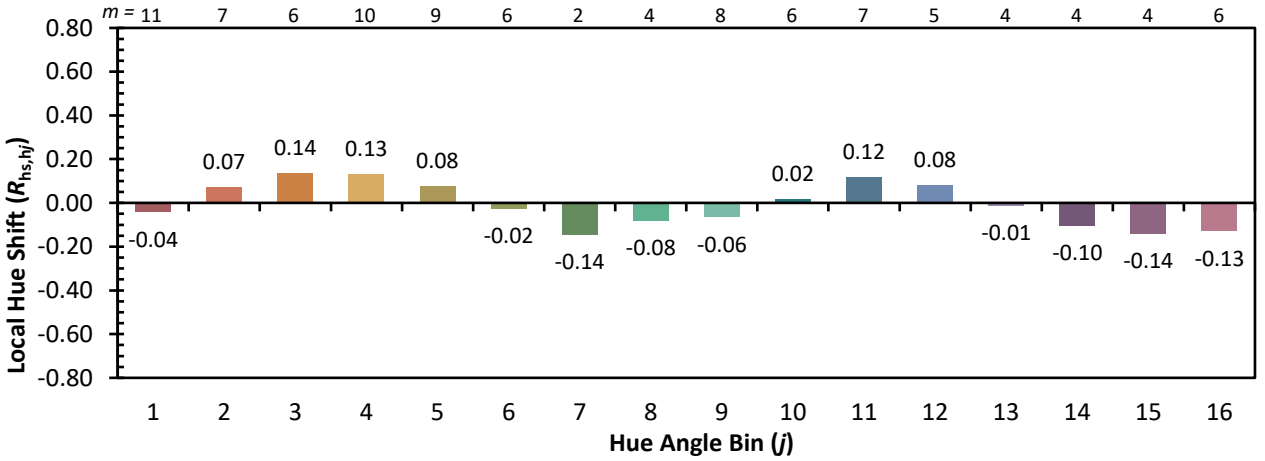
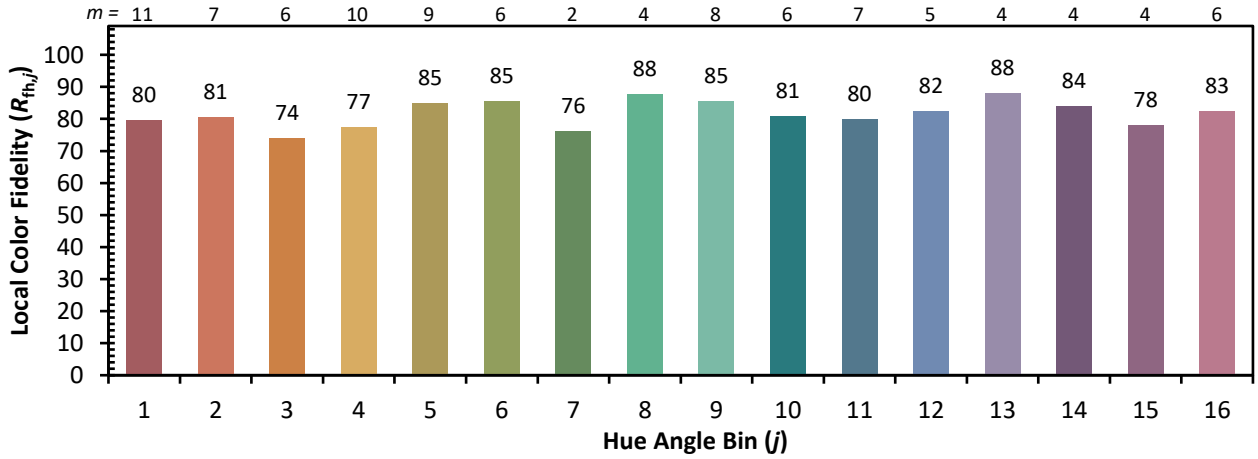
Color Rendition by Hue-Angle Bin







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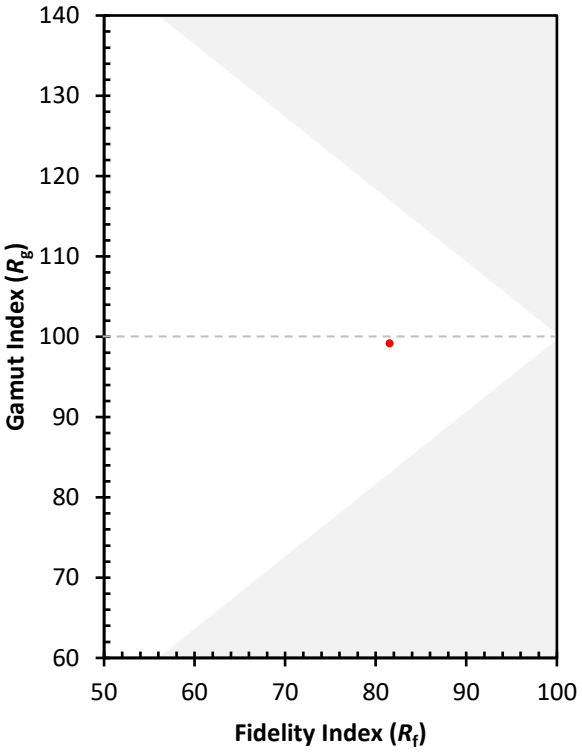
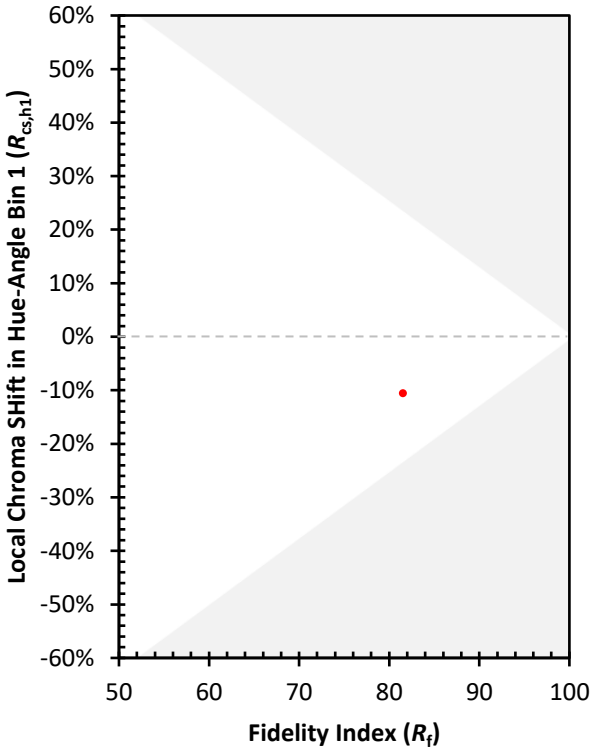
Measure Comparisons





(END OF REPORT)