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: P641950

Luminaire Tested: GWS-SA6B-830-U-SLR-W-HSS

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:	P641950
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6B-830-U-SLR-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10437.9 lumens
Efficiency:	N/A
Efficacy:	75.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	138.9
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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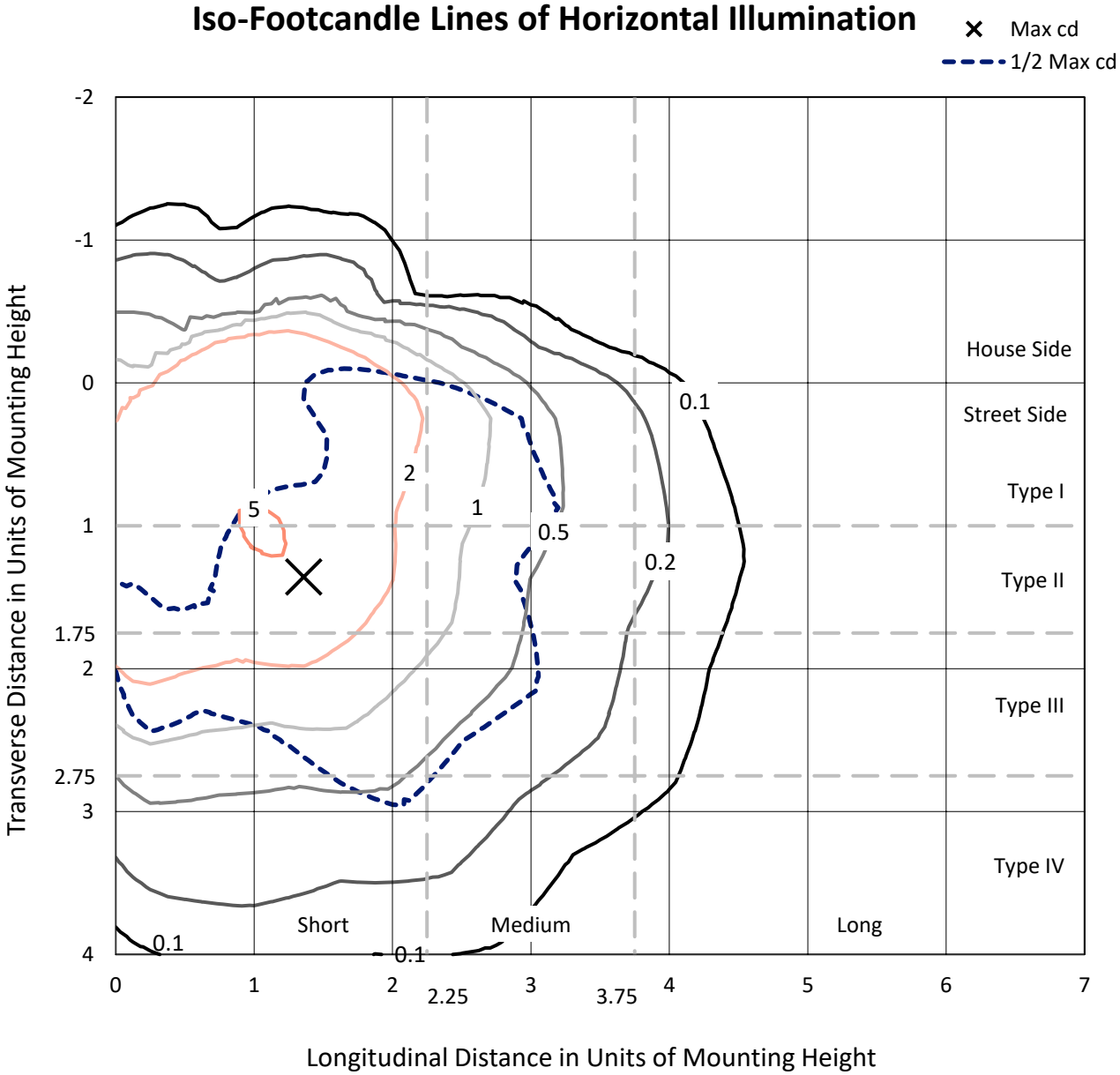
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

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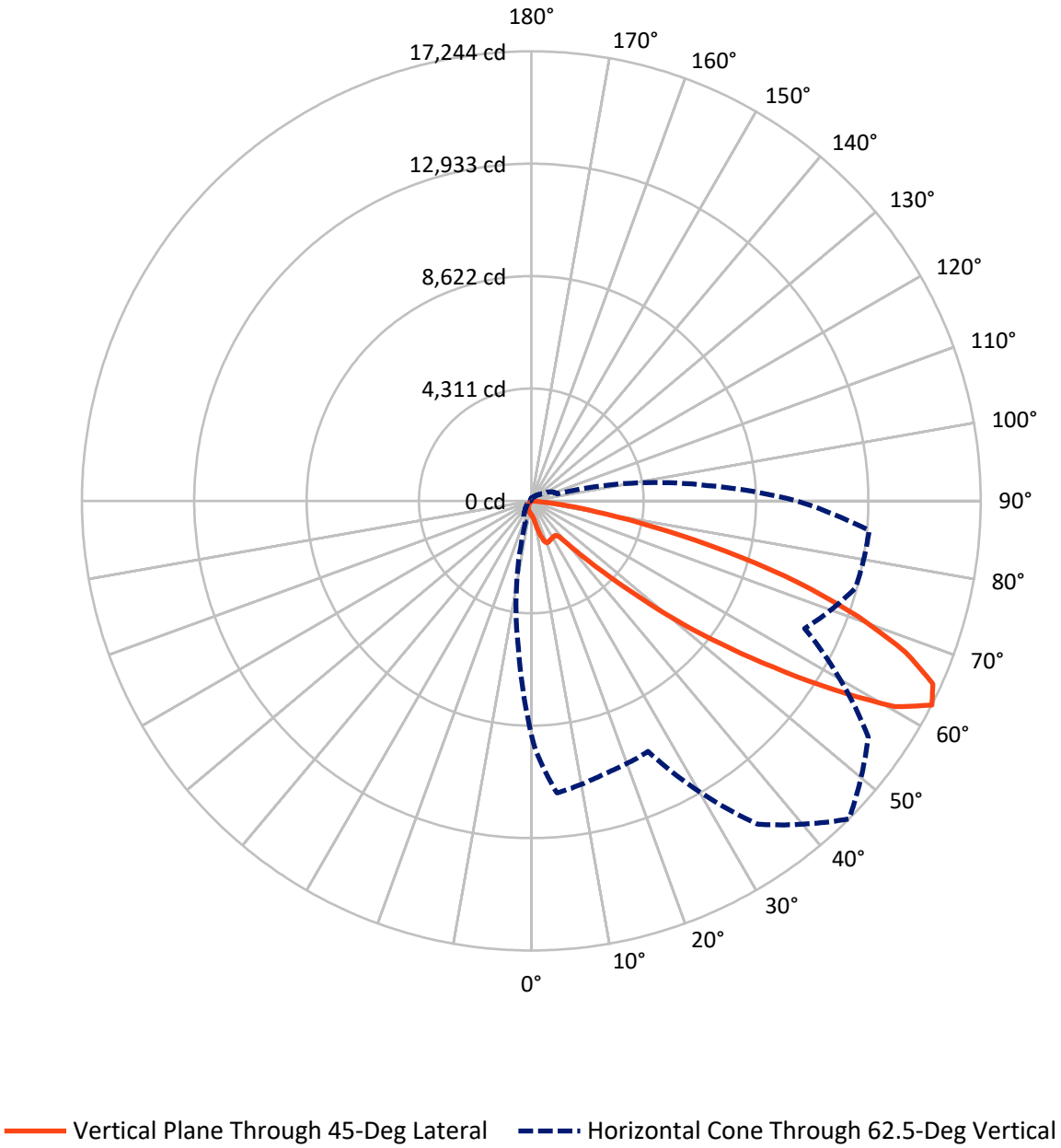
Luminous Intensity Polar Plot



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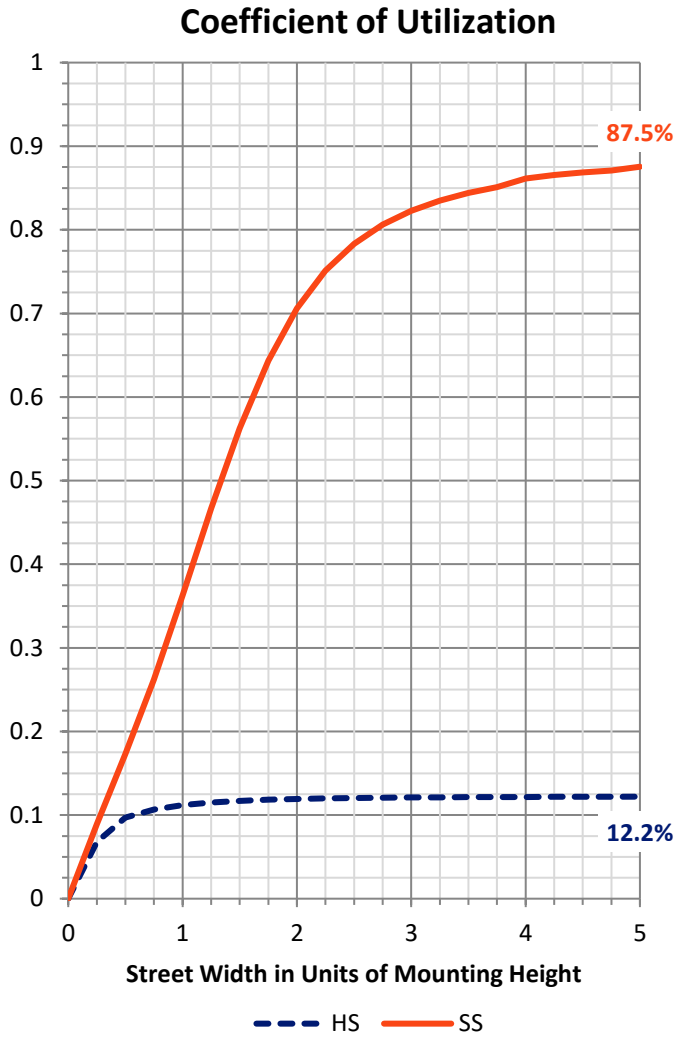
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1288.0	0.0	1288.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9149.9	0.0	9149.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	10437.9	0.0	10437.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	0.5
10°-20°	182.0	1.7
20°-30°	395.6	3.8
30°-40°	649.3	6.2
40°-50°	1193.6	11.4
50°-60°	2563.4	24.6
60°-70°	3443.0	33.0
70°-80°	1792.8	17.2
80°-90°	170.0	1.6
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°	10437.9	100.0
0°-180°	10437.9	100.0



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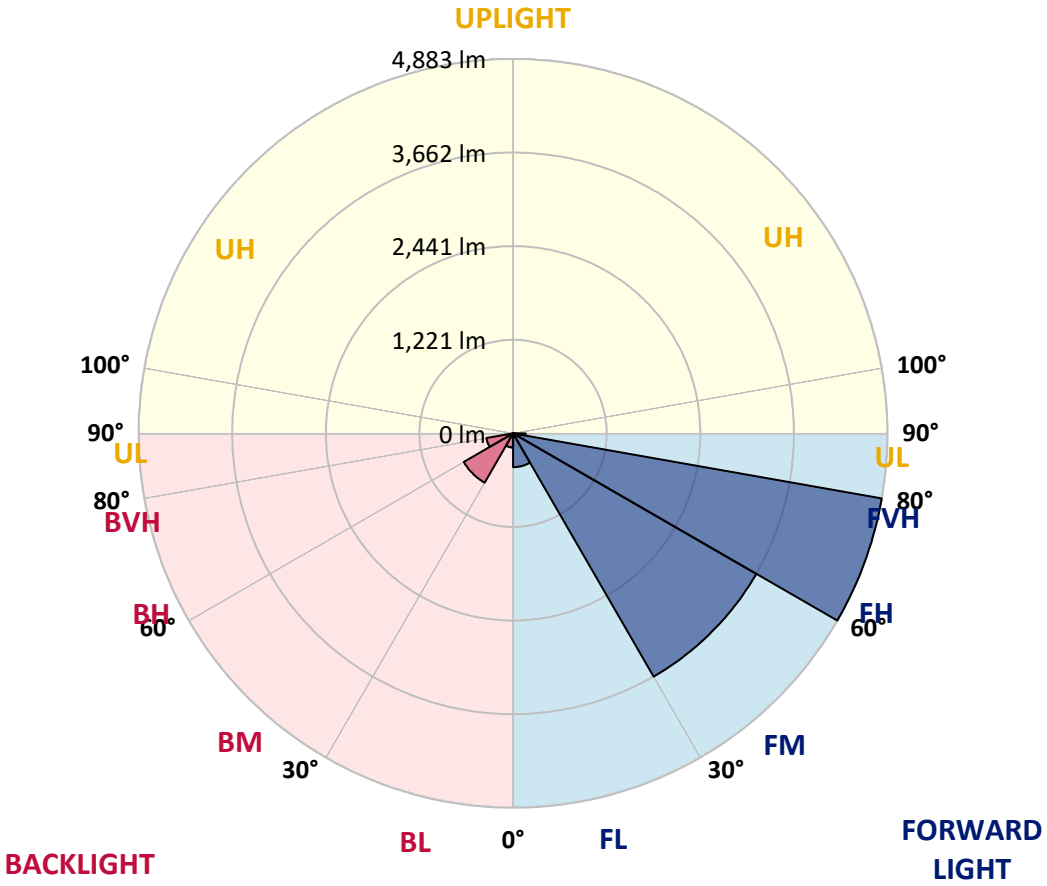
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	440.9	4.2			
FM	(30°-60°)	3663.6	35.1			
FH	(60°-80°)	4882.9	46.8			G2/5000
FVH	(80°-90°)	162.4	1.6			G2/225
BL	(0°-30°)	184.8	1.8	B1/500		
BM	(30°-60°)	742.8	7.1	B1/1000		
BH	(60°-80°)	352.9	3.4	B1/500		G1/500
BVH	(80°-90°)	7.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	542.6	542.6	542.6	542.6	542.6	542.6	*542.6*	542.6	542.6	542.6	542.6
2.5°	553.4	555.8	558.2	566.7	572.7	577.5	*578.7*	575.1	566.7	558.2	546.2
5°	536.5	538.9	547.4	570.3	593.2	611.3	*617.3*	613.7	593.2	566.7	538.9
7.5°	535.3	540.1	560.6	608.9	658.3	695.7	*705.3*	696.9	658.3	605.2	548.6
10°	578.7	587.2	617.3	704.1	794.5	860.8	*887.4*	851.2	789.7	693.3	600.4
12.5°	692.1	706.5	764.4	891.0	1030.8	1118.9	*1155.0*	1110.4	1014.0	874.1	727.0
15°	870.5	892.2	979.0	1168.3	1333.5	1411.8	*1423.9*	1398.6	1286.5	1132.1	934.4
17.5°	1122.5	1153.8	1288.9	1481.8	1601.1	1628.9	*1625.2*	1598.7	1516.7	1410.6	1223.8
20°	1423.9	1461.3	1593.9	1753.0	1765.1	1732.6	*1714.5*	1698.8	1671.1	1653.0	1507.1
22.5°	1727.7	1773.5	1912.2	1952.0	1843.5	1749.4	*1704.8*	1716.9	1757.9	1847.1	1788.0
25°	2030.4	2073.8	2204.0	2096.7	1879.6	1722.9	*1666.2*	1695.2	1792.8	1985.7	2061.7
27.5°	2383.6	2416.2	2493.3	2195.5	1885.7	1701.2	*1645.7*	1690.4	1809.7	2072.5	2361.9
30°	2751.3	2770.6	2733.3	2222.1	1865.2	1668.6	*1625.2*	1690.4	1838.6	2130.4	2587.4
32.5°	3021.4	3025.0	2903.3	2224.5	1854.3	1642.1	*1606.0*	1683.1	1866.4	2178.6	2805.6
35°	3299.9	3281.8	3066.0	2260.6	1883.3	1651.8	*1620.4*	1703.6	1909.8	2235.3	2997.3
37.5°	3582.1	3549.5	3248.1	2319.7	1958.0	1756.7	*1737.4*	1808.5	1979.7	2313.7	3208.3
40°	3871.4	3826.8	3437.4	2408.9	2124.4	2113.5	*2179.9*	2171.4	2171.4	2413.8	3425.3
42.5°	4224.7	4172.8	3717.1	2660.9	2512.6	2755.0	*2935.8*	2823.7	2616.3	2644.0	3707.4
45°	4691.3	4646.7	4201.8	3143.2	3121.5	3678.5	*3922.1*	3700.2	3184.2	3175.7	4178.9
47.5°	5437.6	5429.1	4974.6	3702.6	3866.6	4854.0	*5324.2*	4897.4	3831.6	3738.8	5071.1
50°	6486.5	6461.2	5937.9	4358.5	4752.8	6310.5	*7149.6*	6438.3	4614.1	4395.9	6265.9
52.5°	7668.1	7694.6	7287.1	5074.7	5694.4	7930.9	*9099.2*	8203.4	5464.1	5231.4	7769.3
55°	8780.9	8932.8	8825.5	5912.6	6614.3	9720.1	*11240.5*	10139.7	6516.7	6325.0	9454.9
57.5°	9651.4	10079.4	10831.8	7130.3	7695.8	11813.2	*13631.3*	12238.8	7745.2	8100.9	11749.3
60°	9699.6	10266.3	12013.3	9677.9	9087.1	13608.4	*16018.6*	14289.6	9676.7	11116.3	13546.9
62.5°	*8972.6*	*9580.3*	*11244.1*	*10835.4*	*10602.7*	*15136.0*	*17243.5*	*15784.7*	*11576.9*	*12882.6*	*13014.0*
65°	8140.7	8754.4	10385.7	9522.4	10426.6	15070.9	*16932.5*	15819.6	11749.3	11681.8	12060.3
67.5°	6883.2	7434.2	8911.1	8428.9	9610.4	14343.9	*15495.3*	14822.5	10824.5	10925.8	11094.6
70°	5024.0	5554.5	6925.4	6949.5	8392.7	13033.3	*13314.2*	13221.4	9968.5	10075.8	9593.5
72.5°	3629.1	4076.4	5259.1	5699.2	6699.9	10929.4	*10735.3*	11093.4	8553.0	8973.8	7705.4
75°	2609.1	2944.3	3858.1	4957.7	5311.0	8116.6	*7685.0*	8591.6	6862.7	7727.2	5793.3
77.5°	1058.6	1176.7	1517.9	3339.7	3490.4	5460.5	*4704.5*	6240.6	4892.6	5077.1	2808.0
80°	43.4	48.2	62.7	1724.1	2393.3	3072.1	*2517.4*	3336.1	3231.2	2044.8	663.1
82.5°	4.8	4.8	10.9	496.7	1047.7	1695.2	*1186.4*	1921.8	1636.1	866.9	301.4
85°	1.2	1.2	2.4	56.7	246.0	271.3	*160.4*	589.6	760.8	354.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	6.0	10.9	12.1	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°	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6
2.5°	546.2	540.1	532.9	525.7	522.1	512.4	508.8	506.4	504.0	505.2	505.2
5°	528.1	514.8	499.1	483.5	475.0	465.4	460.6	458.2	459.4	464.2	464.2
7.5°	525.7	500.4	466.6	446.1	436.5	429.2	424.4	422.0	423.2	429.2	431.6
10°	565.5	520.9	460.6	425.6	414.8	407.5	402.7	399.1	396.7	401.5	402.7
12.5°	651.1	589.6	489.5	423.2	403.9	394.3	390.6	383.4	379.8	382.2	383.4
15°	828.3	722.2	547.4	432.8	394.3	383.4	377.4	371.3	365.3	364.1	365.3
17.5°	1059.8	907.9	635.4	455.7	387.0	373.8	365.3	356.9	348.4	347.2	346.0
20°	1346.7	1135.7	758.4	491.9	381.0	365.3	353.3	341.2	330.4	326.7	326.7
22.5°	1608.4	1410.6	916.3	536.5	372.6	353.3	338.8	324.3	312.3	306.2	305.0
25°	1927.9	1702.4	1105.6	588.4	360.5	337.6	321.9	307.4	295.4	288.2	285.7
27.5°	2249.8	2009.9	1320.2	655.9	346.0	321.9	307.4	294.2	280.9	272.5	270.1
30°	2562.1	2341.4	1561.3	740.3	335.2	306.2	294.2	280.9	268.9	255.6	252.0
32.5°	2897.2	2680.2	1831.4	834.3	326.7	295.4	282.1	270.1	254.4	242.3	236.3
35°	3220.3	3029.9	2129.2	926.0	318.3	285.7	271.3	259.2	242.3	229.1	220.6
37.5°	3545.9	3385.5	2440.3	981.4	306.2	272.5	259.2	249.6	230.3	214.6	205.0
40°	3890.7	3753.3	2776.7	958.5	295.4	258.0	250.8	239.9	218.2	200.1	188.1
42.5°	4269.3	4104.1	3119.1	870.5	285.7	246.0	238.7	227.9	207.4	185.7	170.0
45°	4745.5	4488.7	3400.0	737.9	290.6	233.9	219.4	217.0	197.7	170.0	150.7
47.5°	5564.2	5079.5	3618.2	652.3	323.1	220.6	203.8	209.8	189.3	154.3	132.6
50°	6816.9	6058.5	3822.0	646.2	372.6	214.6	189.3	205.0	180.9	138.7	117.0
52.5°	8010.5	7053.2	3952.2	699.3	416.0	230.3	174.8	198.9	174.8	127.8	106.1
55°	9152.3	7627.1	3719.5	737.9	456.9	277.3	164.0	189.3	167.6	121.8	102.5
57.5°	10383.2	7882.7	2928.6	816.2	485.9	317.1	166.4	174.8	157.9	118.2	101.3
60°	10751.0	7555.9	1767.5	918.7	470.2	329.1	184.5	155.5	144.7	110.9	97.7
62.5°	*10179.5*	*6780.7*	*1042.9*	*836.7*	*456.9*	*311.1*	*211.0*	*143.5*	*131.4*	*101.3*	*90.4*
65°	9324.7	5728.1	680.0	706.5	484.7	277.3	224.3	137.4	119.4	91.6	79.6
67.5°	8348.1	4614.1	476.2	417.2	447.3	249.6	189.3	136.2	107.3	77.2	65.1
70°	7031.5	3455.5	335.2	276.1	372.6	221.8	147.1	132.6	94.0	62.7	50.6
72.5°	5432.8	2163.0	249.6	178.4	265.2	180.9	117.0	112.1	76.0	51.8	38.6
75°	4006.4	1233.4	176.0	129.0	174.8	137.4	86.8	79.6	65.1	49.4	35.0
77.5°	2091.8	617.3	109.7	98.9	100.1	85.6	62.7	57.9	60.3	49.4	32.6
80°	401.5	123.0	66.3	72.3	54.3	54.3	45.8	48.2	53.0	39.8	27.7
82.5°	167.6	26.5	36.2	41.0	33.8	37.4	37.4	38.6	37.4	28.9	20.5
85°	0.0	0.0	15.7	16.9	22.9	22.9	19.3	19.3	19.3	16.9	12.1
87.5°	0.0	0.0	0.0	0.0	1.2	3.6	7.2	8.4	9.6	7.2	4.8
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°	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6
2.5°	504.0	501.6	505.2	507.6	510.0	510.0	507.6	505.2	501.6	505.2	501.6
5°	465.4	469.0	475.0	477.4	479.9	475.0	472.6	465.4	459.4	460.6	458.2
7.5°	435.2	438.9	446.1	450.9	450.9	448.5	441.3	434.0	424.4	424.4	423.2
10°	407.5	412.3	420.8	426.8	429.2	426.8	419.6	409.9	401.5	401.5	397.9
12.5°	384.6	390.6	400.3	408.7	411.1	408.7	401.5	391.8	382.2	382.2	379.8
15°	365.3	372.6	383.4	393.0	396.7	393.0	384.6	372.6	362.9	364.1	360.5
17.5°	347.2	353.3	367.7	378.6	382.2	378.6	367.7	352.1	342.4	344.8	342.4
20°	326.7	334.0	348.4	360.5	364.1	360.5	348.4	331.6	321.9	321.9	323.1
22.5°	305.0	312.3	326.7	335.2	340.0	336.4	324.3	308.7	299.0	299.0	300.2
25°	285.7	289.4	300.2	308.7	309.9	306.2	296.6	284.5	277.3	280.9	282.1
27.5°	267.7	267.7	272.5	277.3	276.1	272.5	268.9	259.2	258.0	261.6	265.2
30°	248.4	242.3	239.9	236.3	235.1	233.9	237.5	237.5	239.9	244.8	248.4
32.5°	231.5	219.4	208.6	197.7	191.7	196.5	206.2	214.6	223.0	230.3	233.9
35°	212.2	192.9	174.8	160.4	150.7	157.9	173.6	189.3	203.8	213.4	219.4
37.5°	192.9	165.2	143.5	125.4	118.2	124.2	141.1	162.8	184.5	196.5	205.0
40°	172.4	137.4	112.1	97.7	90.4	96.5	113.3	135.0	164.0	179.6	190.5
42.5°	151.9	113.3	90.4	76.0	72.3	76.0	89.2	110.9	142.3	161.6	176.0
45°	131.4	94.0	72.3	61.5	57.9	61.5	72.3	90.4	121.8	143.5	160.4
47.5°	113.3	79.6	60.3	50.6	48.2	51.8	60.3	76.0	102.5	124.2	143.5
50°	98.9	69.9	51.8	43.4	41.0	44.6	51.8	63.9	86.8	106.1	126.6
52.5°	89.2	65.1	45.8	37.4	36.2	38.6	44.6	54.3	73.5	90.4	109.7
55°	86.8	65.1	42.2	33.8	32.6	35.0	39.8	47.0	63.9	78.4	95.2
57.5°	89.2	69.9	39.8	28.9	27.7	30.1	35.0	41.0	55.5	67.5	83.2
60°	89.2	71.1	35.0	22.9	21.7	24.1	28.9	36.2	49.4	59.1	72.3
62.5°	*80.8*	*65.1*	*28.9*	*18.1*	*15.7*	*18.1*	*24.1*	*30.1*	*43.4*	*53.0*	*63.9*
65°	69.9	55.5	24.1	13.3	10.9	13.3	19.3	25.3	37.4	45.8	57.9
67.5°	56.7	42.2	18.1	9.6	7.2	9.6	14.5	20.5	31.3	39.8	51.8
70°	42.2	30.1	14.5	8.4	7.2	8.4	13.3	19.3	27.7	36.2	48.2
72.5°	31.3	20.5	12.1	8.4	6.0	8.4	12.1	18.1	26.5	35.0	45.8
75°	26.5	16.9	10.9	7.2	6.0	7.2	10.9	16.9	24.1	32.6	43.4
77.5°	25.3	15.7	9.6	6.0	4.8	6.0	9.6	14.5	21.7	30.1	42.2
80°	21.7	13.3	8.4	4.8	3.6	4.8	8.4	12.1	16.9	22.9	32.6
82.5°	16.9	10.9	6.0	2.4	1.2	2.4	6.0	7.2	10.9	13.3	19.3
85°	10.9	6.0	2.4	0.0	0.0	0.0	2.4	4.8	4.8	6.0	9.6
87.5°	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	3.6
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: P641950
CATALOG NUMBER: GWS-SA6B-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6
2.5°	508.8	510.0	512.4	516.0	524.5	531.7	538.9	548.6	553.4	553.4
5°	460.6	461.8	463.0	467.8	479.9	489.5	505.2	524.5	534.1	536.5
7.5°	423.2	425.6	428.0	431.6	443.7	456.9	477.4	513.6	531.7	535.3
10°	401.5	405.1	409.9	417.2	428.0	442.5	477.4	542.6	572.7	578.7
12.5°	384.6	390.6	395.5	403.9	417.2	440.1	510.0	624.5	677.6	692.1
15°	367.7	375.0	382.2	390.6	405.1	448.5	572.7	771.6	859.6	870.5
17.5°	350.9	359.3	368.9	378.6	396.7	469.0	671.6	975.4	1098.4	1122.5
20°	331.6	342.4	355.7	367.7	388.2	501.6	809.0	1217.7	1372.1	1423.9
22.5°	311.1	324.3	340.0	355.7	378.6	541.3	975.4	1478.2	1694.0	1727.7
25°	294.2	307.4	321.9	337.6	362.9	589.6	1176.7	1801.3	1997.8	2030.4
27.5°	278.5	291.8	305.0	319.5	347.2	652.3	1419.1	2144.9	2349.9	2383.6
30°	261.6	277.3	290.6	305.0	332.8	729.4	1698.8	2525.9	2720.0	2751.3
32.5°	247.2	262.8	276.1	290.6	321.9	813.8	1993.0	2863.5	3021.4	3021.4
35°	235.1	252.0	261.6	280.9	313.5	868.1	2271.5	3185.4	3304.7	3299.9
37.5°	221.8	242.3	249.6	262.8	302.6	874.1	2533.1	3525.4	3613.4	3582.1
40°	208.6	230.3	241.1	248.4	290.6	824.7	2820.1	3837.7	3912.4	3871.4
42.5°	196.5	213.4	229.1	237.5	283.3	737.9	3050.3	4171.6	4260.8	4224.7
45°	184.5	198.9	208.6	224.3	288.2	677.6	3248.1	4561.1	4717.8	4691.3
47.5°	172.4	184.5	190.5	214.6	320.7	649.9	3368.6	5163.9	5459.3	5437.6
50°	159.1	173.6	173.6	212.2	368.9	659.5	3473.5	6036.8	6493.7	6486.5
52.5°	145.9	161.6	159.1	230.3	406.3	704.1	3592.9	6807.2	7601.8	7668.1
55°	132.6	147.1	149.5	266.5	428.0	742.7	3131.1	7131.5	8548.2	8780.9
57.5°	118.2	126.6	155.5	294.2	420.8	854.8	2144.9	7190.6	9152.3	9651.4
60°	102.5	109.7	176.0	288.2	397.9	789.7	1350.4	6660.1	9066.7	9699.6
62.5°	*89.2*	*101.3*	*185.7*	*254.4*	*405.1*	*684.8*	*860.8*	*5676.3*	*8250.4*	*8972.6*
65°	78.4	97.7	168.8	230.3	409.9	464.2	581.1	4617.7	7453.5	8140.7
67.5°	69.9	108.5	138.7	205.0	352.1	326.7	399.1	3588.1	6267.1	6883.2
70°	63.9	110.9	113.3	176.0	272.5	209.8	262.8	2415.0	4319.9	5024.0
72.5°	57.9	82.0	85.6	141.1	176.0	127.8	170.0	1381.7	3149.2	3629.1
75°	55.5	55.5	59.1	91.6	97.7	92.8	109.7	824.7	2258.2	2609.1
77.5°	51.8	42.2	37.4	59.1	53.0	66.3	65.1	366.5	979.0	1058.6
80°	41.0	30.1	25.3	37.4	36.2	44.6	38.6	30.1	44.6	43.4
82.5°	25.3	19.3	18.1	22.9	20.5	22.9	18.1	4.8	4.8	4.8
85°	12.1	10.9	9.6	9.6	10.9	9.6	7.2	2.4	1.2	1.2
87.5°	6.0	6.0	4.8	3.6	4.8	4.8	3.6	1.2	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.

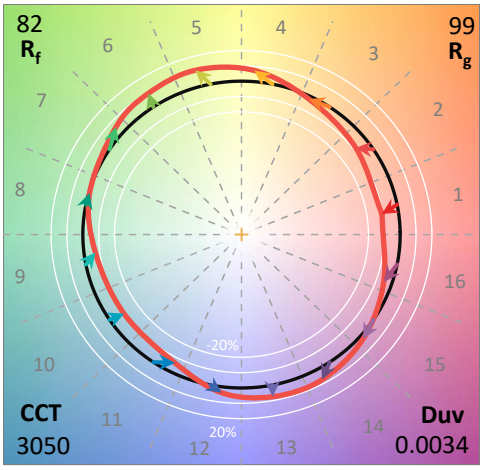
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

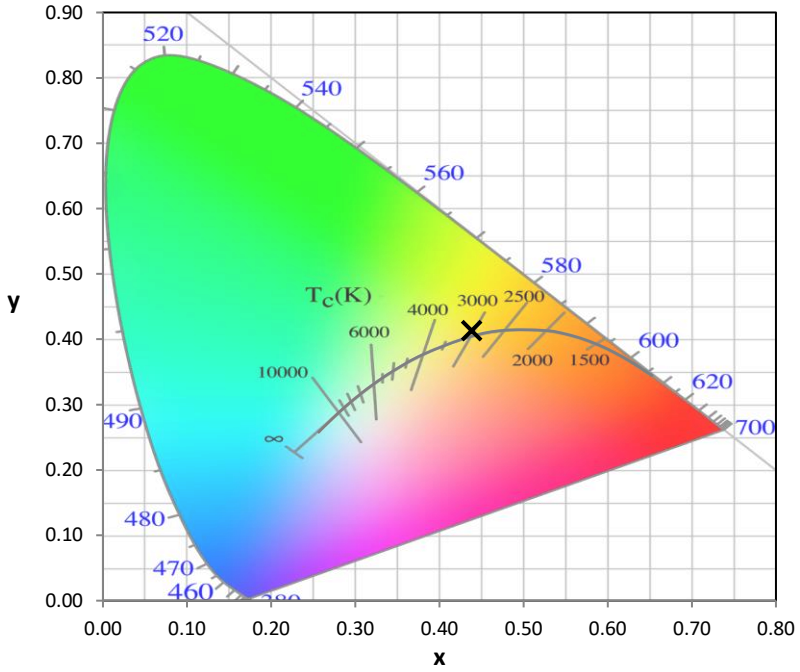
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

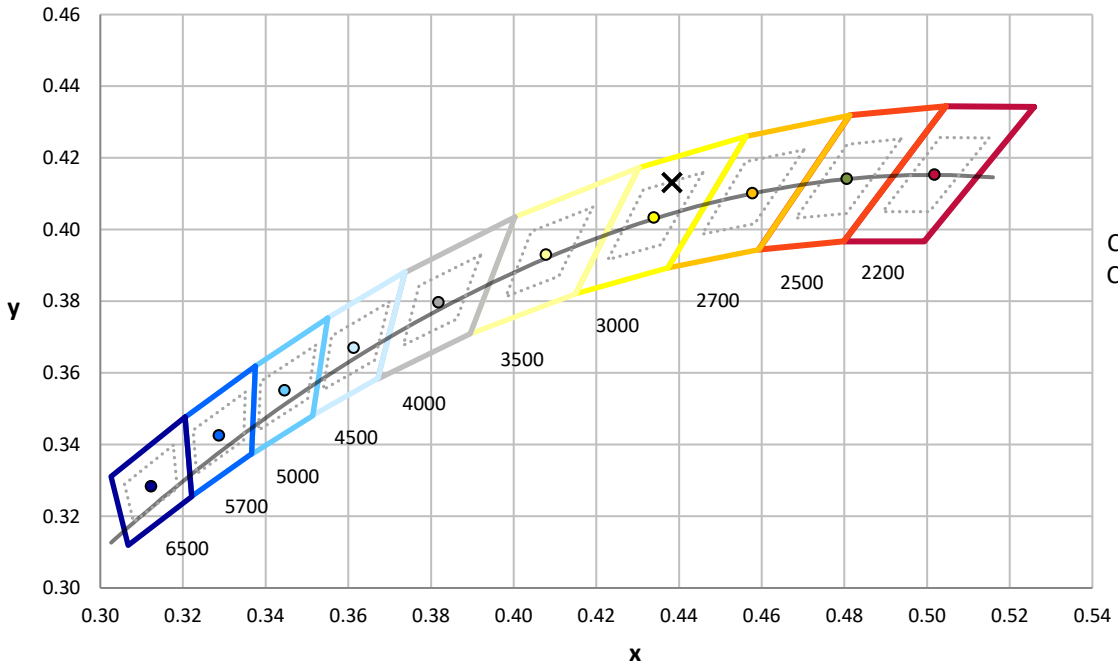
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

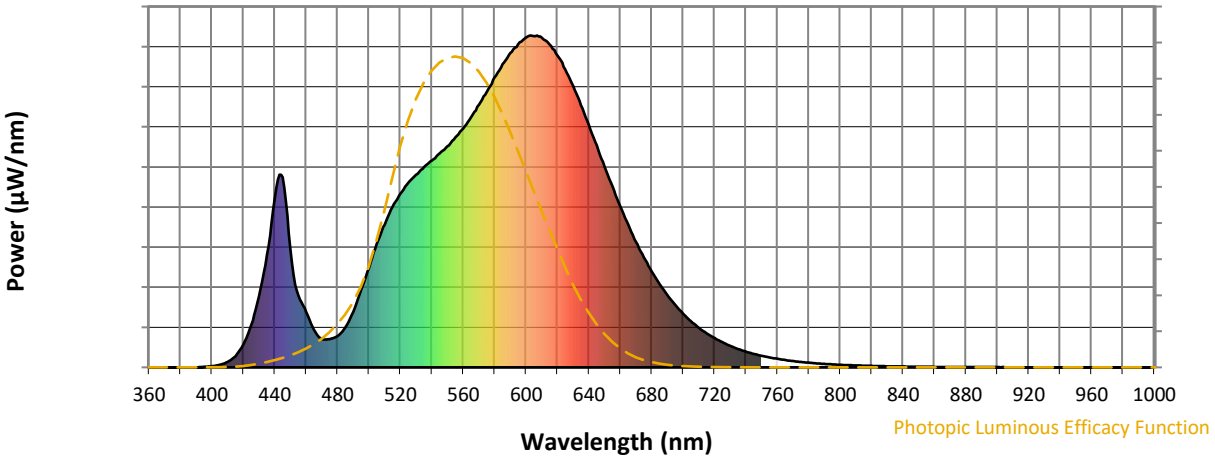


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

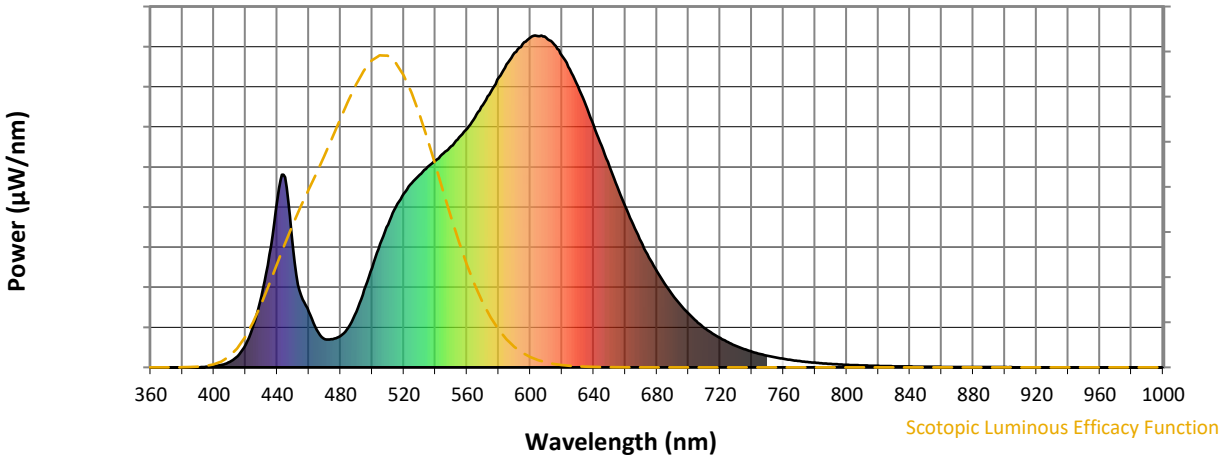


Photopic Lumens: NR

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

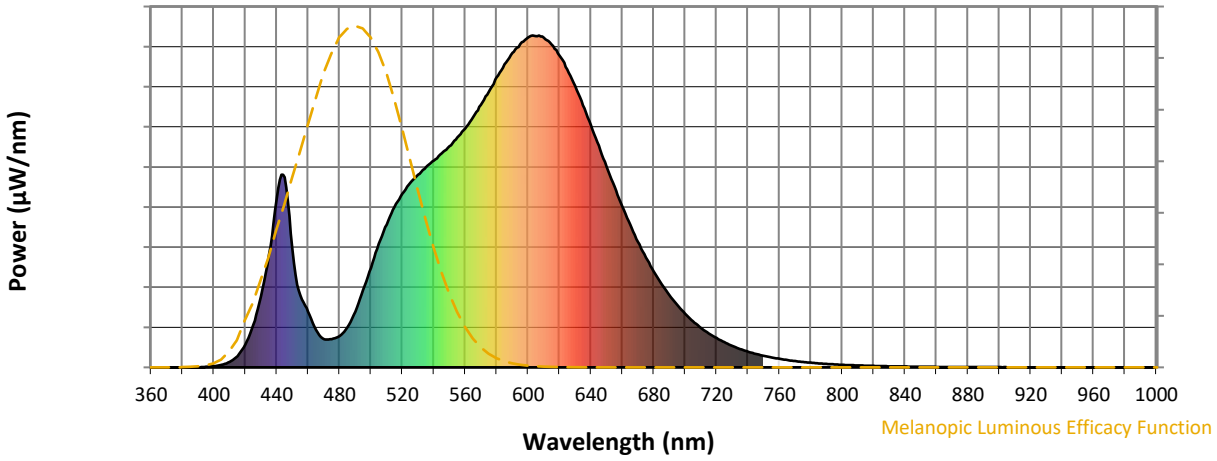


Scotopic Lumens: NR **S/P: 1.27**

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			

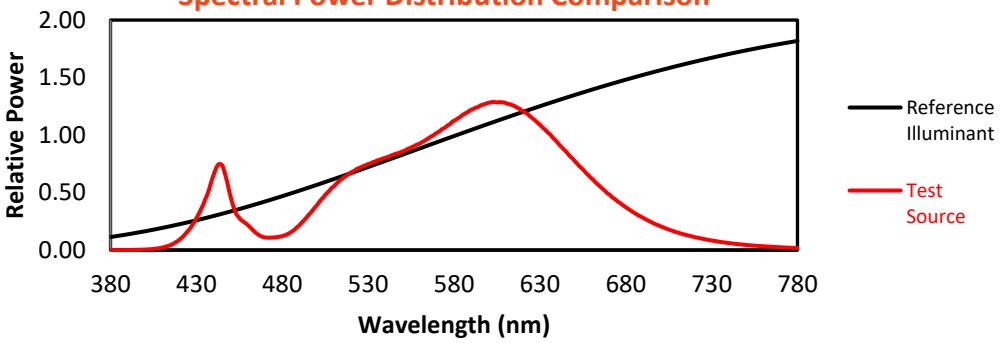
REPORT NUMBER: SP1-2408-195-9

TM-30-18

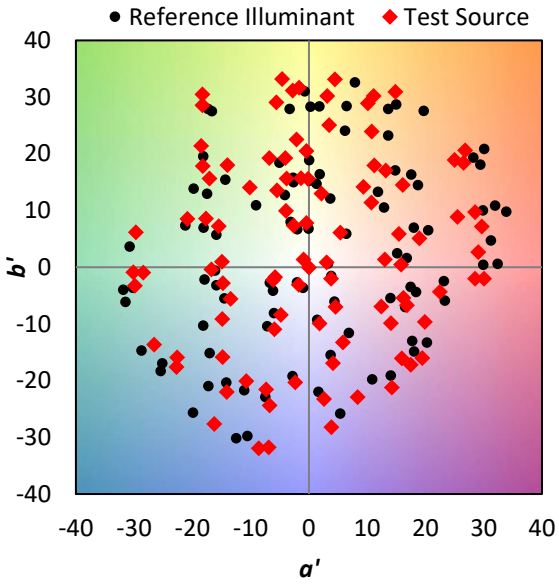
Summary

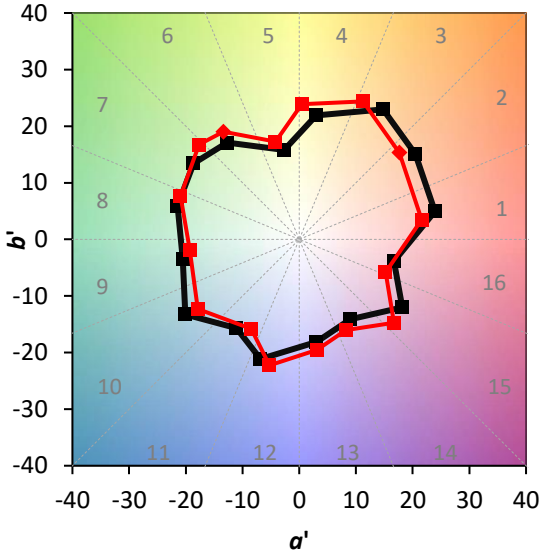
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

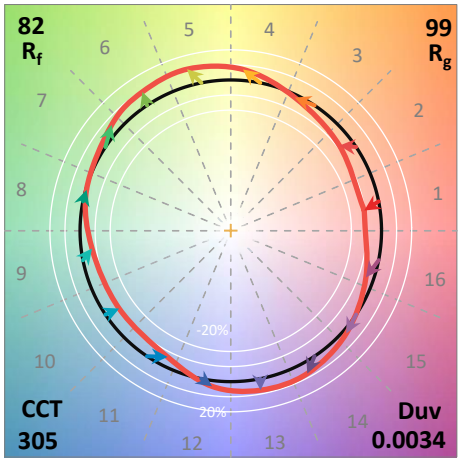
Spectral Power Distribution Comparison

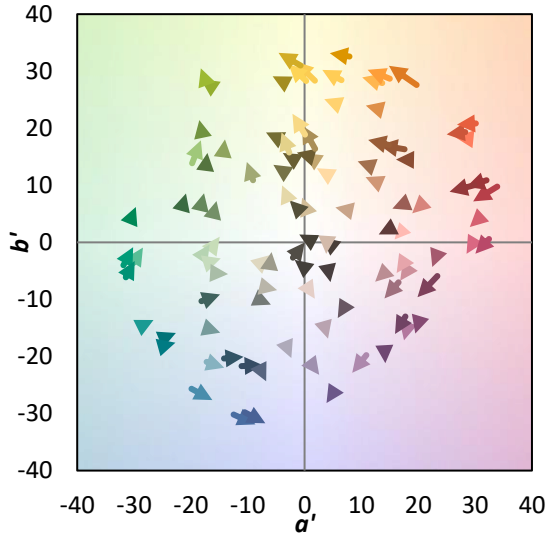


Color Vector Graphics









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
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
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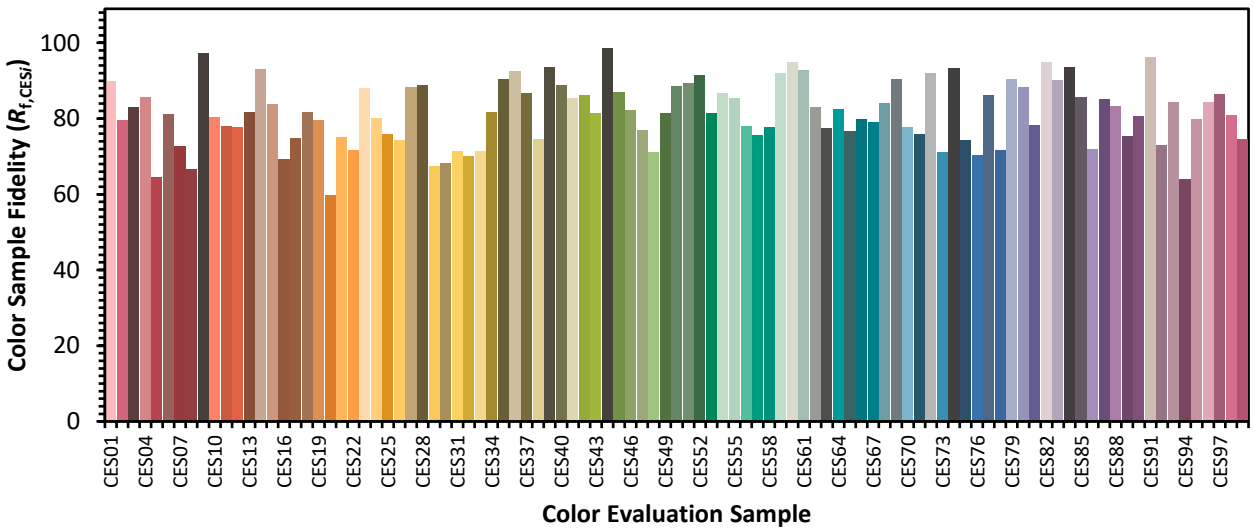

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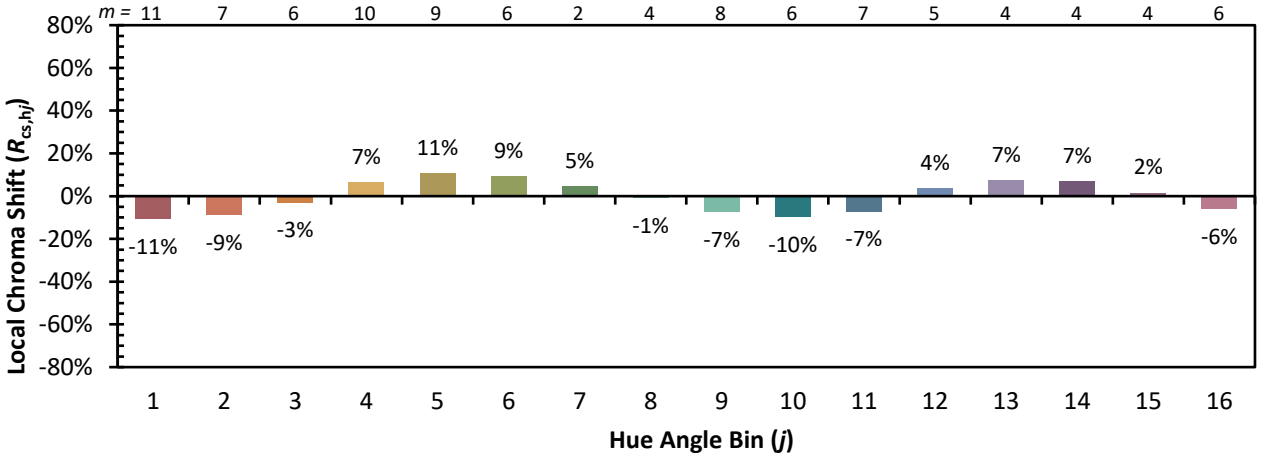
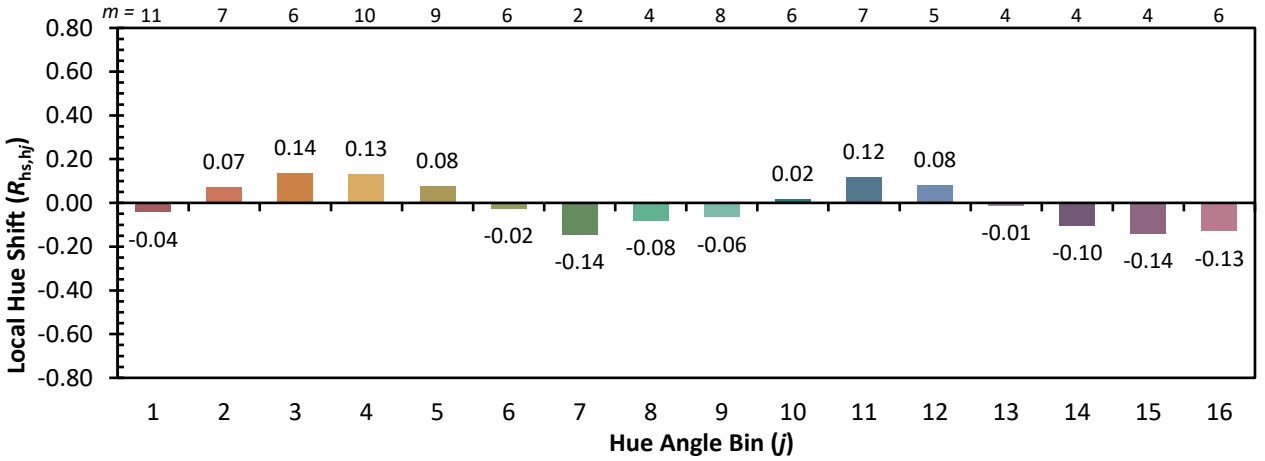
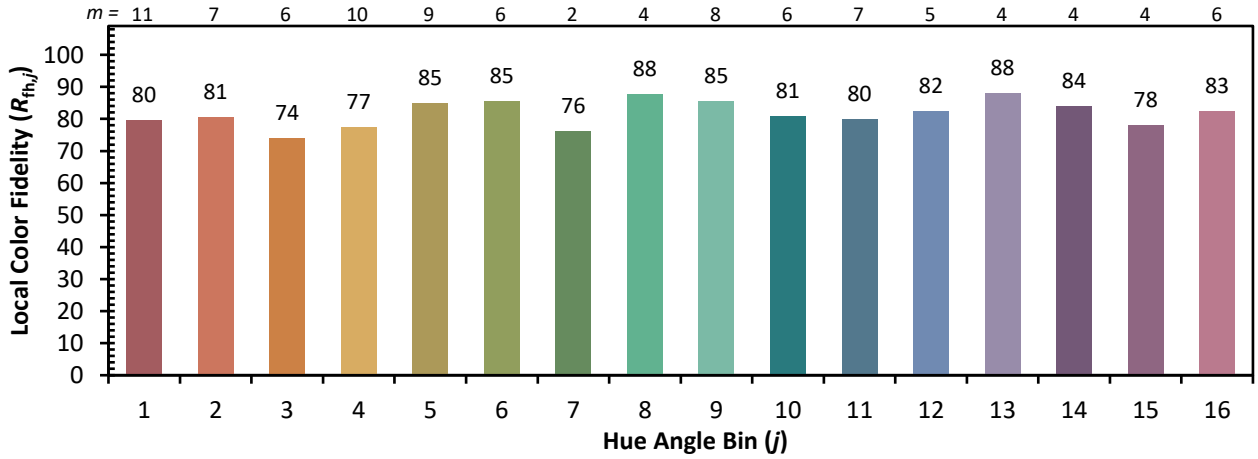
Color Rendition by Hue-Angle Bin







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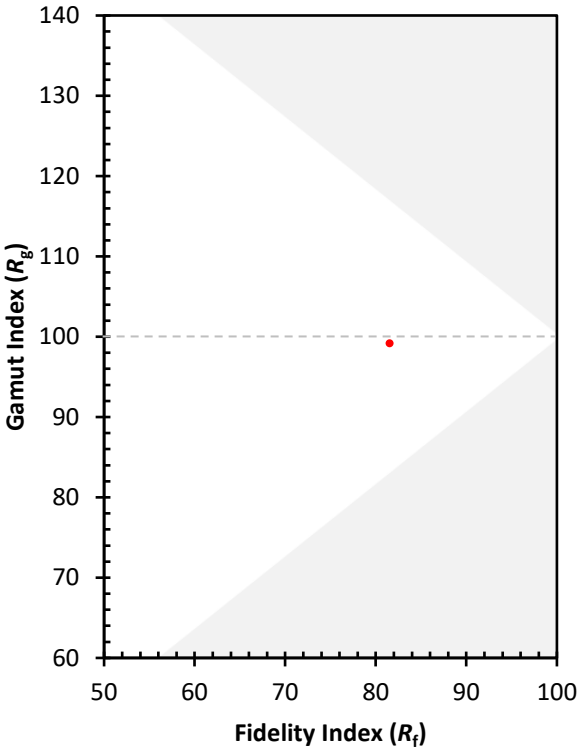
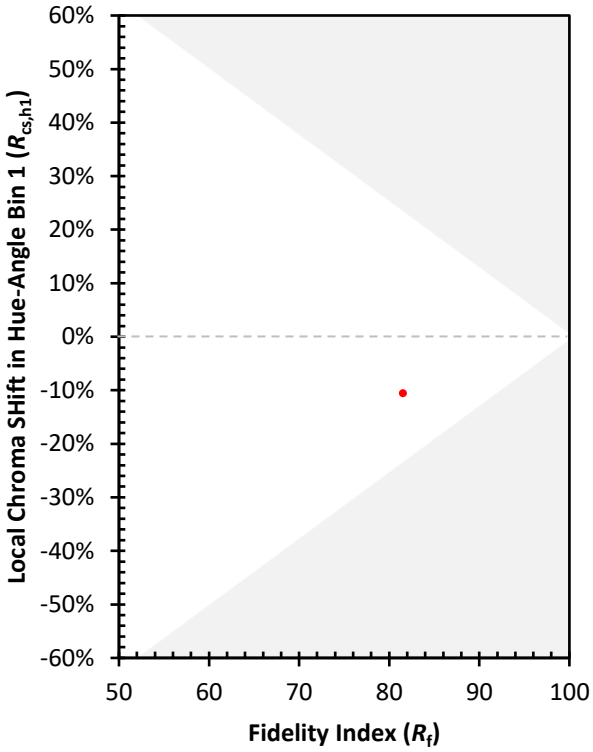
Measure Comparisons





(END OF REPORT)