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: P642936

Luminaire Tested: GWS-SA6D-830-U-SLL-W-HSS

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:	P642936
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-SLL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17229.4 lumens
Efficiency:	N/A
Efficacy:	70.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	245.7
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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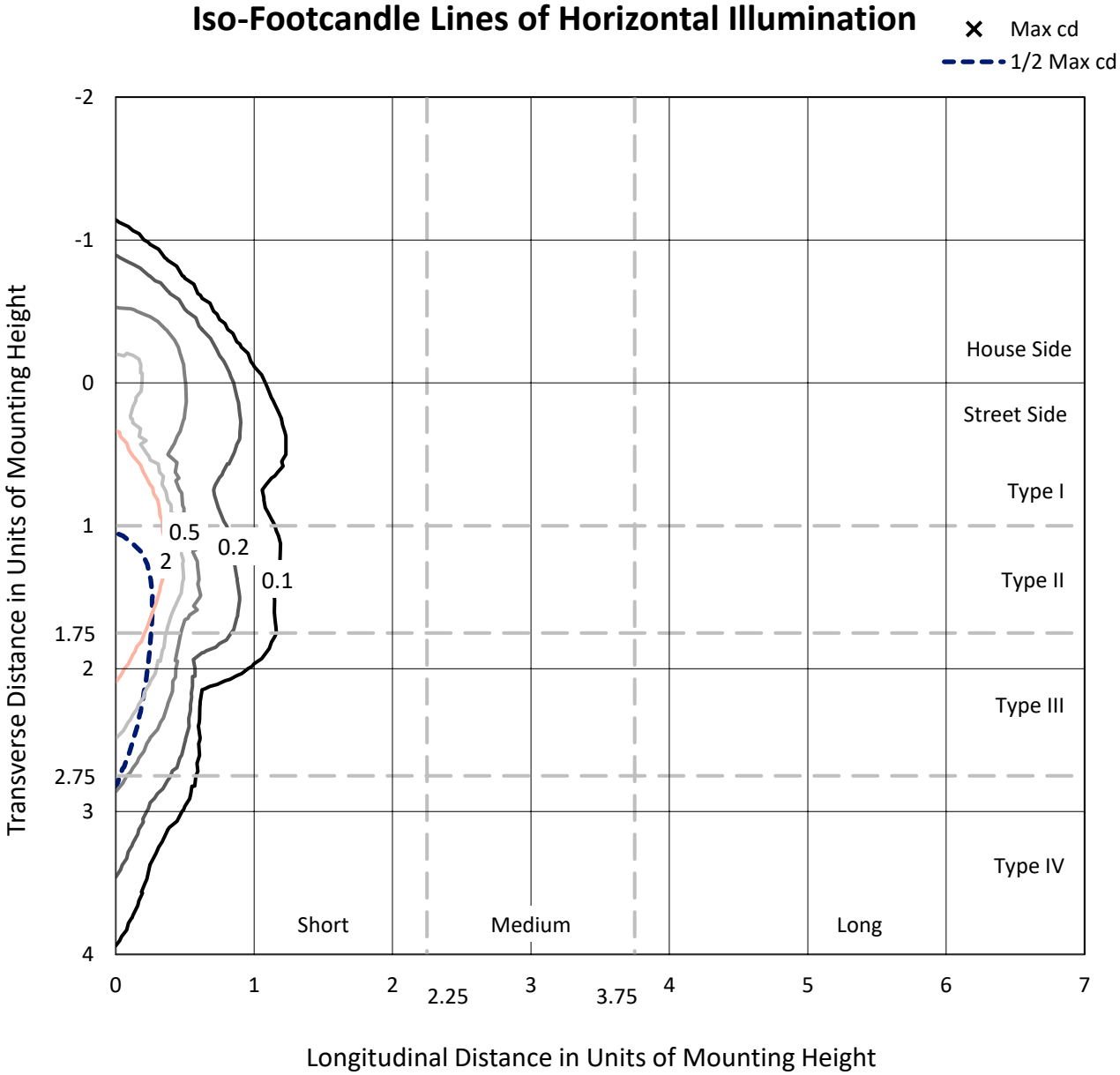
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

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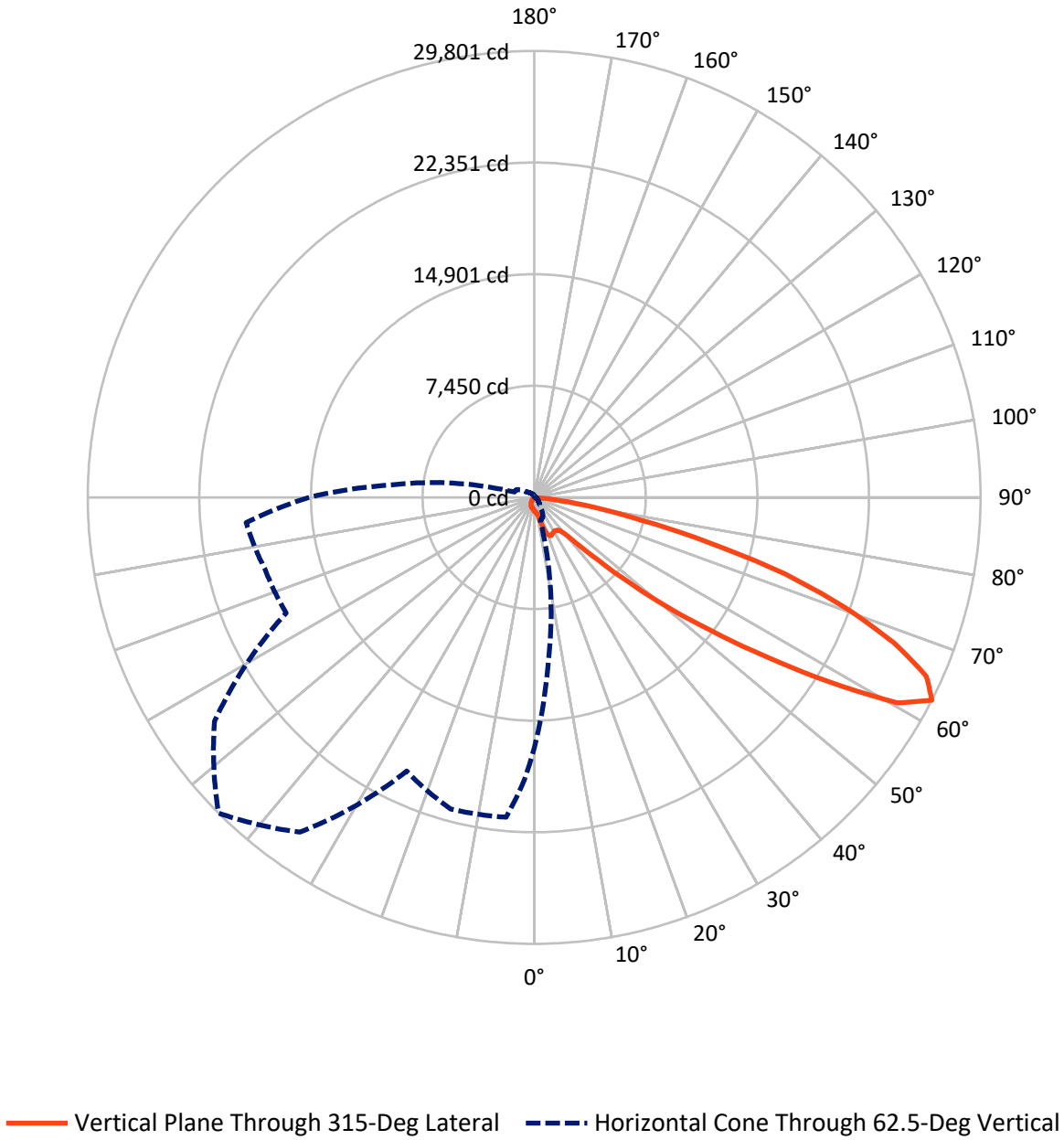
Luminous Intensity Polar Plot



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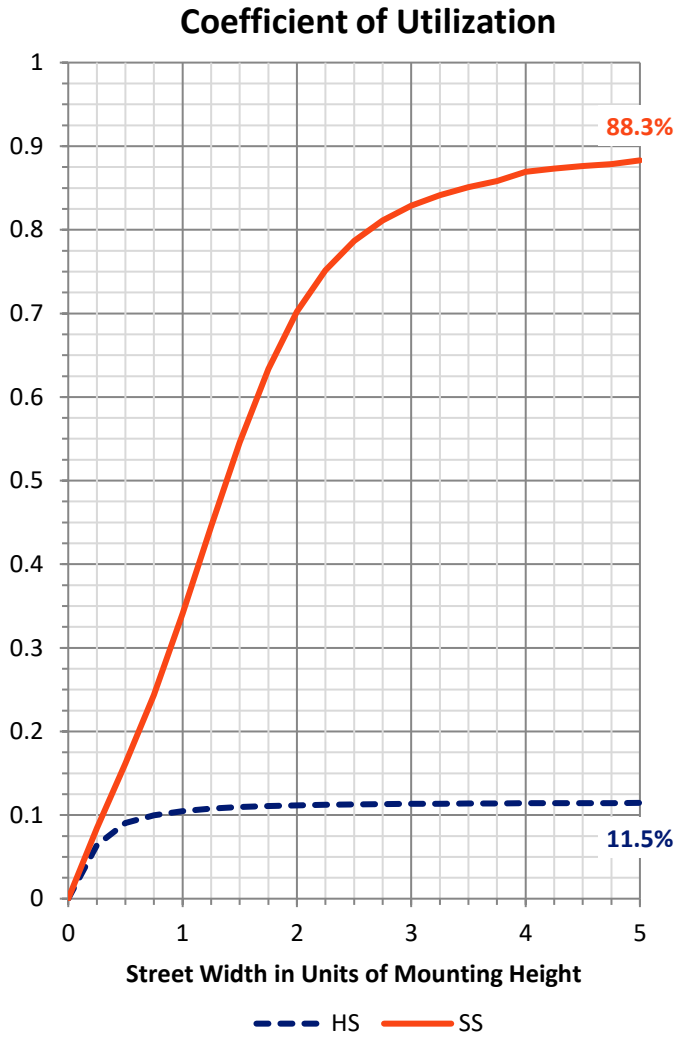
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.8	0.0	2001.8
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	15227.6	0.0	15227.6
	% Fixture	88.4	0.0	88.4
Total	Lumens	17229.4	0.0	17229.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	0.4
10°-20°	264.5	1.5
20°-30°	597.5	3.5
30°-40°	1029.3	6.0
40°-50°	1941.6	11.3
50°-60°	4335.1	25.2
60°-70°	5798.1	33.7
70°-80°	2907.6	16.9
80°-90°	278.7	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°	17229.4	100.0
0°-180°	17229.4	100.0



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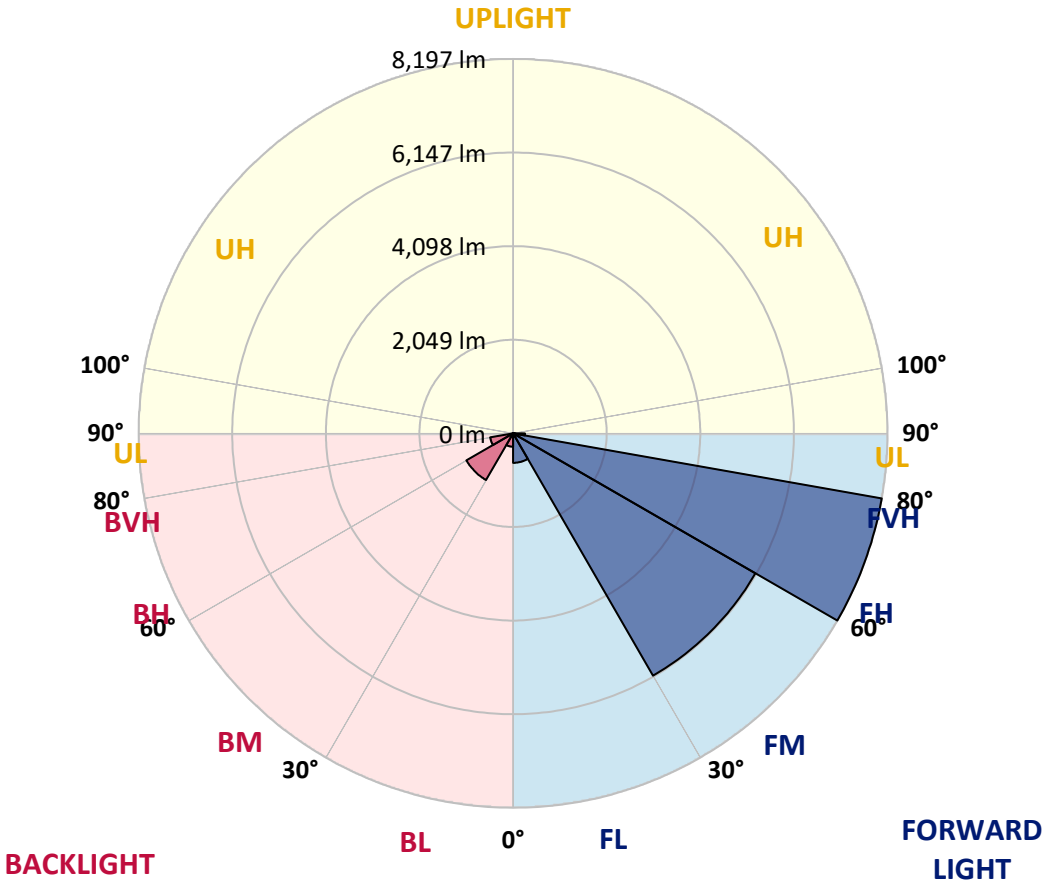
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	645.3	3.7			
FM	(30°-60°)	6125.6	35.6			
FH	(60°-80°)	8196.6	47.6			G4/12000
FVH	(80°-90°)	260.1	1.5			G3/500
BL	(0°-30°)	293.8	1.7	B1/500		
BM	(30°-60°)	1180.4	6.9	B2/2500		
BH	(60°-80°)	509.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	883.3	881.3	877.2	865.0	854.8	848.7	836.4	836.4	834.4	830.3	822.1
5°	854.8	846.6	838.5	816.0	791.5	777.3	760.9	758.9	758.9	754.8	752.8
7.5°	809.9	801.7	791.5	754.8	732.4	718.1	703.8	701.8	695.7	695.7	695.7
10°	785.4	773.2	756.9	716.1	693.6	681.4	671.2	665.1	661.0	654.9	652.8
12.5°	838.5	816.0	781.3	707.9	677.3	661.0	648.7	644.7	632.4	624.3	618.1
15°	1003.7	948.6	879.3	726.3	671.2	646.7	630.4	622.2	612.0	597.7	587.5
17.5°	1275.0	1195.5	1079.2	785.4	665.1	634.5	614.1	599.8	585.5	569.2	556.9
20°	1650.4	1532.1	1393.4	893.5	665.1	620.2	595.7	577.3	556.9	538.6	524.3
22.5°	2127.8	2009.4	1772.8	1077.1	673.2	601.8	573.3	548.8	524.3	508.0	491.7
25°	2662.3	2495.0	2274.7	1299.5	695.7	577.3	546.7	522.3	499.8	479.4	461.1
27.5°	3258.0	3076.4	2782.6	1615.7	744.6	552.9	518.2	495.7	475.3	454.9	430.5
30°	3806.7	3698.6	3398.7	1995.2	824.2	536.5	495.7	475.3	454.9	428.4	406.0
32.5°	4465.7	4273.9	4027.1	2427.7	930.3	520.2	477.4	448.8	432.5	408.0	383.5
35°	5128.7	4965.5	4641.1	2960.1	1048.6	503.9	454.9	428.4	414.1	385.6	359.0
37.5°	5812.1	5775.4	5455.1	3549.7	1164.9	485.5	428.4	412.1	397.8	365.2	334.6
40°	6485.3	6418.0	6122.2	4222.9	1236.3	465.1	406.0	395.8	379.4	342.7	308.0
42.5°	7130.0	7079.0	6791.3	4867.6	1226.1	446.8	383.5	371.3	359.0	322.3	279.5
45°	7921.5	7837.9	7474.7	5344.9	1122.0	467.2	361.1	340.7	338.6	304.0	250.9
47.5°	9402.6	9127.2	8511.1	5712.1	1018.0	520.2	336.6	312.1	326.4	285.6	222.4
50°	11477.3	11152.9	10261.4	5997.7	1015.9	589.6	332.5	285.6	316.2	271.3	197.9
52.5°	13562.2	12991.0	11907.8	6150.7	1091.4	640.6	369.2	259.1	304.0	257.0	179.5
55°	15559.5	14374.2	12597.3	5644.8	1150.6	695.7	436.6	244.8	281.5	240.7	169.3
57.5°	17462.8	15486.0	12897.2	4465.7	1348.5	718.1	477.4	250.9	248.9	220.3	161.2
60°	17723.9	15433.0	12291.3	2597.0	1487.2	679.3	461.1	279.5	218.3	195.8	146.9
62.5°	*16736.6*	*14406.8*	*10910.2*	*1619.8*	*1381.1*	*665.1*	*410.0*	*318.2*	*197.9*	*173.4*	*128.5*
65°	15237.1	12797.2	9096.6	1044.5	1046.5	738.5	359.0	312.1	185.6	153.0	110.2
67.5°	12893.1	10710.3	7166.7	699.7	591.6	630.4	314.2	214.2	181.6	130.6	85.7
70°	9410.7	7623.7	4665.6	467.2	352.9	503.9	263.2	153.0	171.4	108.1	61.2
72.5°	6879.0	5122.6	2605.1	306.0	199.9	293.8	193.8	110.2	132.6	79.6	42.8
75°	4951.2	3525.2	1487.2	195.8	132.6	161.2	126.5	75.5	85.7	63.2	38.8
77.5°	2382.8	1717.7	675.3	108.1	89.8	81.6	67.3	46.9	53.0	57.1	34.7
80°	89.8	67.3	51.0	53.0	57.1	36.7	30.6	24.5	30.6	38.8	18.4
82.5°	0.0	0.0	0.0	6.1	8.2	10.2	12.2	10.2	12.2	14.3	2.0
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°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	828.3	824.2	828.3	832.3	836.4	840.5	834.4	838.5	842.5	832.3	836.4
5°	763.0	760.9	773.2	779.3	787.5	791.5	787.5	787.5	785.4	773.2	773.2
7.5°	705.9	707.9	718.1	732.4	742.6	748.7	744.6	742.6	736.5	718.1	718.1
10°	663.0	663.0	679.3	691.6	705.9	712.0	707.9	701.8	695.7	677.3	675.3
12.5°	628.3	628.3	640.6	661.0	677.3	685.5	683.4	675.3	665.1	646.7	644.7
15°	595.7	593.7	612.0	630.4	652.8	663.0	658.9	652.8	634.5	618.1	614.1
17.5°	563.1	561.0	577.3	601.8	626.3	640.6	638.5	624.3	607.9	587.5	583.5
20°	530.4	526.3	546.7	571.2	595.7	610.0	605.9	593.7	573.3	552.9	548.8
22.5°	497.8	495.7	510.0	530.4	552.9	565.1	563.1	552.9	532.5	514.1	514.1
25°	461.1	461.1	471.3	485.5	501.9	508.0	510.0	505.9	493.7	483.5	483.5
27.5°	430.5	424.3	428.4	432.5	440.7	450.9	450.9	454.9	457.0	452.9	454.9
30°	406.0	395.8	389.6	381.5	377.4	381.5	385.6	399.8	414.1	422.3	426.4
32.5°	377.4	365.2	348.8	326.4	312.1	308.0	320.3	346.8	373.3	391.7	401.9
35°	348.8	332.5	301.9	269.3	250.9	244.8	259.1	289.7	328.4	361.1	375.4
37.5°	320.3	297.8	255.0	216.2	195.8	191.8	206.0	238.7	283.6	328.4	346.8
40°	287.6	261.1	210.1	169.3	153.0	148.9	161.2	193.8	240.7	291.7	320.3
42.5°	255.0	222.4	169.3	134.6	118.3	118.3	134.6	159.1	202.0	257.0	291.7
45°	222.4	187.7	138.7	108.1	97.9	100.0	110.2	134.6	169.3	226.4	259.1
47.5°	191.8	161.2	114.2	89.8	81.6	83.6	95.9	116.3	144.8	195.8	230.5
50°	165.2	136.7	100.0	75.5	69.4	73.4	85.7	104.0	128.5	173.4	202.0
52.5°	148.9	122.4	91.8	65.3	61.2	65.3	77.5	93.8	116.3	153.0	181.6
55°	140.8	120.4	91.8	59.2	53.0	57.1	69.4	85.7	104.0	138.7	163.2
57.5°	138.7	124.4	97.9	53.0	44.9	49.0	61.2	77.5	95.9	126.5	146.9
60°	130.6	118.3	95.9	42.8	34.7	40.8	51.0	67.3	87.7	118.3	136.7
62.5°	*114.2*	*104.0*	*83.6*	*34.7*	*26.5*	*30.6*	*42.8*	*59.2*	*79.6*	*108.1*	*128.5*
65°	93.8	83.6	65.3	22.4	16.3	20.4	32.6	51.0	69.4	97.9	116.3
67.5°	69.4	59.2	44.9	14.3	8.2	14.3	26.5	42.8	63.2	87.7	106.1
70°	42.8	34.7	24.5	8.2	6.1	12.2	24.5	40.8	57.1	81.6	100.0
72.5°	24.5	16.3	10.2	4.1	6.1	12.2	24.5	40.8	55.1	77.5	93.8
75°	18.4	10.2	4.1	2.0	4.1	10.2	22.4	36.7	53.0	73.4	89.8
77.5°	12.2	6.1	2.0	0.0	2.0	8.2	20.4	34.7	49.0	69.4	85.7
80°	2.0	0.0	0.0	0.0	0.0	6.1	18.4	30.6	44.9	61.2	75.5
82.5°	0.0	0.0	0.0	0.0	0.0	2.0	14.3	26.5	38.8	51.0	61.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.2	20.4	30.6	38.8	42.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	20.4	24.5	28.6
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°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	834.4	846.6	846.6	854.8	865.0	883.3	893.5	907.8	918.0	928.2	932.3
5°	771.1	773.2	775.2	779.3	791.5	811.9	830.3	852.7	879.3	899.7	911.9
7.5°	718.1	718.1	718.1	724.2	736.5	750.7	769.1	799.7	830.3	854.8	875.2
10°	673.2	679.3	681.4	691.6	705.9	724.2	744.6	771.1	805.8	838.5	875.2
12.5°	644.7	650.8	661.0	671.2	685.5	705.9	728.3	763.0	834.4	901.7	979.2
15°	618.1	626.3	638.5	652.8	669.1	691.6	716.1	787.5	954.7	1081.2	1203.6
17.5°	589.6	601.8	618.1	632.4	652.8	677.3	707.9	846.6	1175.1	1385.2	1593.3
20°	552.9	569.2	587.5	610.0	634.5	663.0	707.9	969.0	1493.3	1795.2	2070.6
22.5°	518.2	534.5	556.9	585.5	614.1	642.6	718.1	1154.7	1903.4	2284.9	2633.7
25°	489.6	510.0	532.5	556.9	589.6	622.2	742.6	1415.8	2397.1	2888.7	3135.6
27.5°	463.1	487.6	510.0	530.4	559.0	595.7	797.7	1764.6	2980.5	3480.3	3674.1
30°	436.6	465.1	487.6	508.0	536.5	575.3	881.3	2209.4	3629.2	4114.8	4135.2
32.5°	414.1	440.7	467.2	487.6	514.1	559.0	997.6	2729.6	4294.3	4763.5	4571.7
35°	389.6	420.3	444.7	467.2	495.7	544.7	1132.2	3290.6	4965.5	5359.2	5006.3
37.5°	365.2	399.8	430.5	446.8	475.3	530.4	1230.1	3876.1	5650.9	5940.6	5387.8
40°	342.7	381.5	416.2	432.5	446.8	512.1	1244.4	4475.9	6346.6	6513.9	5746.8
42.5°	318.2	361.1	391.7	414.1	426.4	499.8	1158.7	4981.8	6930.0	7085.1	6216.0
45°	291.7	342.7	367.2	383.5	408.0	508.0	1048.6	5373.5	7597.1	7864.4	6989.2
47.5°	265.2	322.3	342.7	355.0	387.6	556.9	1007.8	5634.6	8696.7	9251.6	8292.8
50°	240.7	304.0	326.4	324.4	383.5	620.2	1052.7	5832.5	10349.2	11002.0	10079.9
52.5°	214.2	283.6	310.1	301.9	414.1	669.1	1142.4	5989.6	11620.1	13054.3	12481.0
55°	191.8	261.1	285.6	283.6	471.3	705.9	1211.8	5161.3	12146.5	14961.7	15186.1
57.5°	175.4	236.6	257.0	291.7	508.0	705.9	1401.5	3663.9	12156.7	16365.3	18776.6
60°	161.2	214.2	228.5	320.3	493.7	669.1	1387.2	2244.1	11203.9	16269.4	20686.1
62.5°	*148.9*	*193.8*	*212.2*	*328.4*	*436.6*	*663.0*	*1252.6*	*1391.3*	*9555.6*	*15031.1*	*19300.9*
65°	138.7	177.5	204.0	301.9	395.8	709.9	844.6	999.6	7750.1	13619.4	17711.7
67.5°	128.5	163.2	216.2	246.8	359.0	634.5	610.0	709.9	6083.4	12071.0	16253.1
70°	120.4	155.0	228.5	202.0	314.2	495.7	432.5	538.6	4657.4	10071.7	14198.7
72.5°	114.2	144.8	191.8	159.1	255.0	383.5	301.9	391.7	3043.8	7862.3	11575.2
75°	108.1	132.6	140.8	128.5	189.7	250.9	228.5	263.2	1813.6	5746.8	8782.4
77.5°	106.1	124.4	114.2	104.0	128.5	148.9	173.4	177.5	885.4	2874.4	4602.4
80°	93.8	112.2	97.9	85.7	87.7	97.9	128.5	118.3	202.0	730.3	1228.1
82.5°	73.4	87.7	81.6	71.4	71.4	71.4	85.7	79.6	65.3	328.4	554.9
85°	51.0	61.2	61.2	57.1	55.1	55.1	53.0	51.0	18.4	20.4	30.6
87.5°	34.7	42.8	44.9	42.8	36.7	32.6	28.6	24.5	8.2	0.0	4.1
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: P642936
CATALOG NUMBER: GWS-SA6D-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	893.5	893.5	893.5	*893.5*	893.5	893.5	893.5	893.5	893.5	893.5
2.5°	946.6	952.7	952.7	*944.5*	938.4	922.1	905.8	889.5	885.4	883.3
5°	946.6	971.1	983.3	*981.3*	967.0	940.5	905.8	869.1	858.9	854.8
7.5°	932.3	979.2	1015.9	*1022.1*	995.5	948.6	885.4	830.3	816.0	809.9
10°	964.9	1056.7	1130.2	*1140.4*	1109.8	1018.0	916.0	822.1	799.7	785.4
12.5°	1140.4	1291.4	1381.1	*1424.0*	1364.8	1248.5	1079.2	911.9	860.9	838.5
15°	1495.4	1709.6	1880.9	*1880.9*	1825.8	1619.8	1405.6	1134.3	1064.9	1003.7
17.5°	1950.3	2219.6	2370.5	*2354.2*	2270.6	2125.7	1868.7	1479.0	1338.3	1275.0
20°	2468.5	2629.6	2664.3	*2654.1*	2617.4	2533.7	2356.3	1938.0	1748.3	1650.4
22.5°	2917.3	2874.4	2823.4	*2782.6*	2772.4	2796.9	2772.4	2450.1	2301.2	2127.8
25°	3221.2	2978.5	2825.5	*2752.0*	2786.7	2927.5	3080.5	2960.1	2841.8	2662.3
27.5°	3386.5	2966.2	2745.9	*2670.4*	2729.6	2929.5	3262.0	3466.0	3343.6	3258.0
30°	3476.2	2956.0	2694.9	*2621.5*	2711.2	2962.2	3388.5	3939.3	3943.4	3806.7
32.5°	3604.8	3021.3	2705.1	*2637.8*	2758.1	3060.1	3547.6	4420.8	4539.1	4465.7
35°	3749.6	3121.3	2752.0	*2690.8*	2839.7	3190.6	3725.1	4906.3	5153.2	5128.7
37.5°	3886.3	3233.5	2862.2	*2803.0*	2964.2	3302.8	3896.5	5383.7	5726.4	5812.1
40°	4029.1	3390.6	3200.8	*3258.0*	3347.7	3480.3	4049.5	5797.8	6356.8	6485.3
42.5°	4365.7	3935.3	4224.9	*4333.1*	4345.3	4071.9	4384.1	6328.2	6977.0	7130.0
45°	5116.4	4904.3	5734.6	*5887.6*	5808.0	4979.8	5189.9	7093.3	7844.0	7921.5
47.5°	6065.1	6163.0	7801.1	*8329.5*	7852.1	6050.8	6167.1	8702.8	9431.1	9402.6
50°	7170.8	7633.9	10147.2	*11393.7*	10251.2	7442.1	7293.2	10681.7	11565.0	11477.3
52.5°	8478.4	9343.4	12966.6	*14737.3*	13656.1	9006.8	8945.6	13303.2	13841.7	13562.2
55°	10124.8	10993.8	16210.2	*18684.8*	17146.6	10916.3	11126.4	16342.8	16446.9	15559.5
57.5°	12581.0	13146.1	20033.3	*23211.7*	20790.1	13511.2	15035.2	20388.2	19143.8	17462.8
60°	17040.5	15914.4	23727.8	*27842.6*	24666.2	17160.9	20190.4	22785.3	20041.4	17723.9
62.5°	*18593.0*	*18264.6*	*26041.2*	*29801.0*	*27273.4*	*20157.7*	*21530.7*	*21426.6*	*18878.6*	*16736.6*
65°	16240.8	17679.1	25627.1	*28766.7*	26938.8	19664.0	19321.3	19927.2	17568.9	15237.1
67.5°	15002.5	16304.1	24058.3	*25912.7*	25084.4	17989.2	17222.1	17056.8	14749.6	12893.1
70°	13754.0	15043.3	21783.6	*22014.2*	21628.6	15259.6	14251.8	13144.0	11024.4	9410.7
72.5°	12252.5	12962.5	18627.7	*17534.2*	17097.7	11985.3	11773.1	9898.3	8264.2	6879.0
75°	10685.8	10479.7	14523.1	*12034.2*	12360.7	9325.1	9943.2	7268.7	6054.9	4951.2
77.5°	7772.6	7619.6	9727.0	*7309.5*	8094.9	6107.9	5487.7	2900.9	2762.2	2382.8
80°	4337.1	5228.6	5253.1	*4096.4*	5110.3	3982.2	1373.0	95.9	61.2	89.8
82.5°	2015.6	2248.1	2847.9	*1899.3*	2915.2	1972.7	283.6	0.0	0.0	0.0
85°	652.8	954.7	799.7	*279.5*	705.9	667.1	46.9	0.0	0.0	0.0
87.5°	38.8	79.6	20.4	*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.

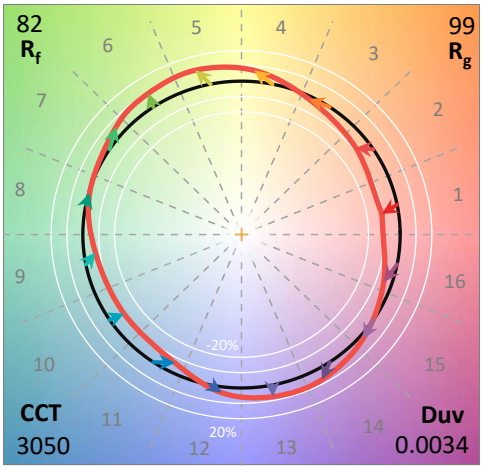
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

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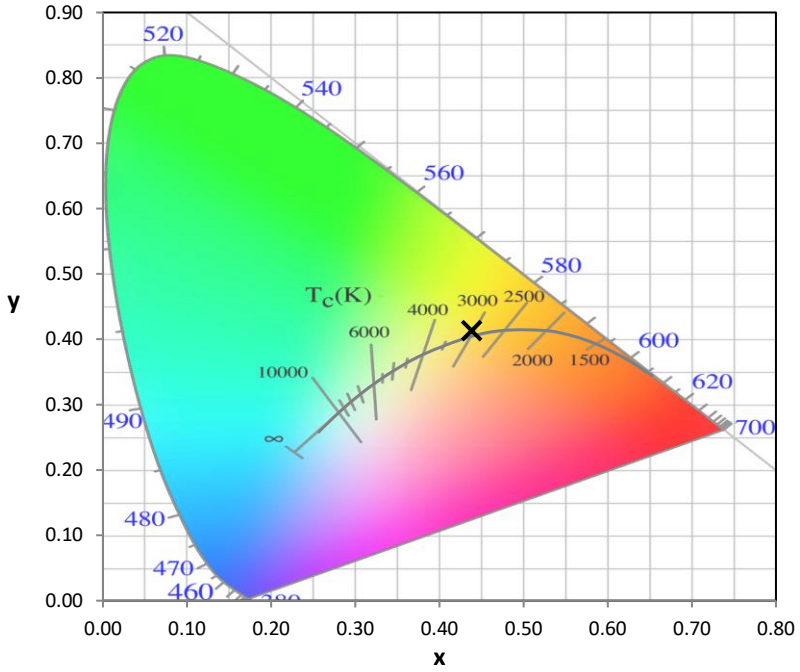
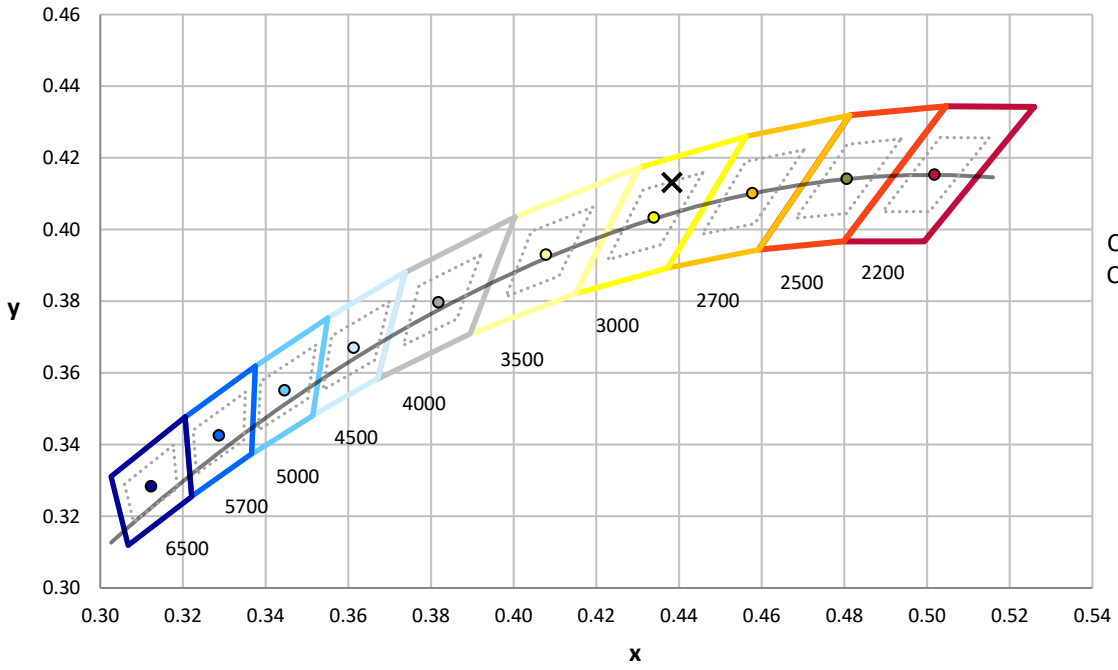
CIE 1931 Chromaticity Diagram



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

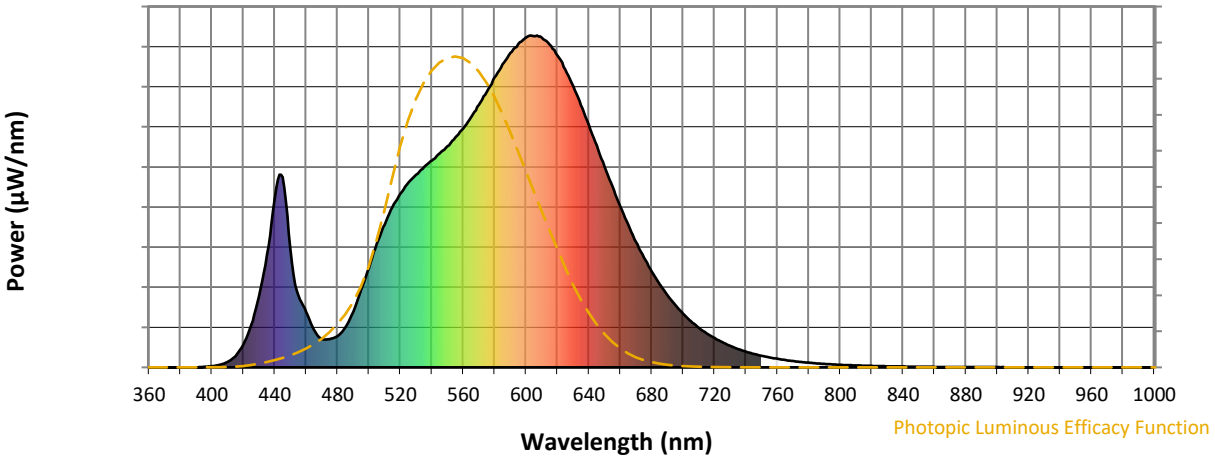


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

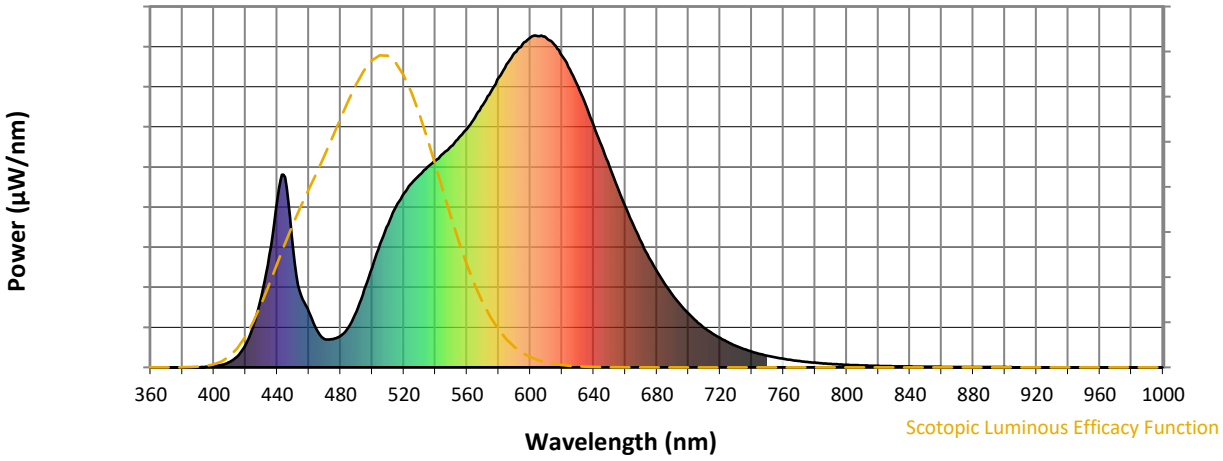


Photopic Lumens: NR

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

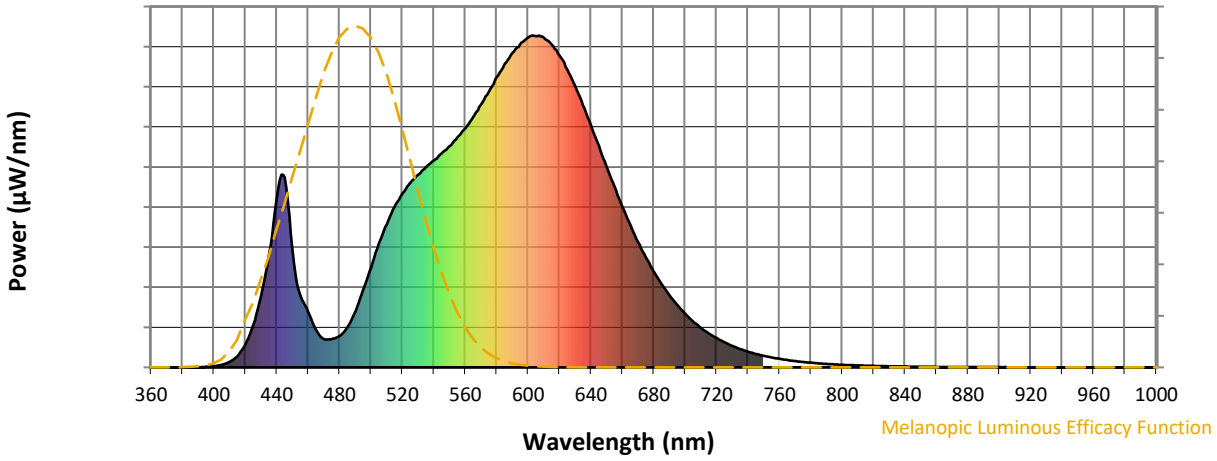


Scotopic Lumens: NR **S/P: 1.27**

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			

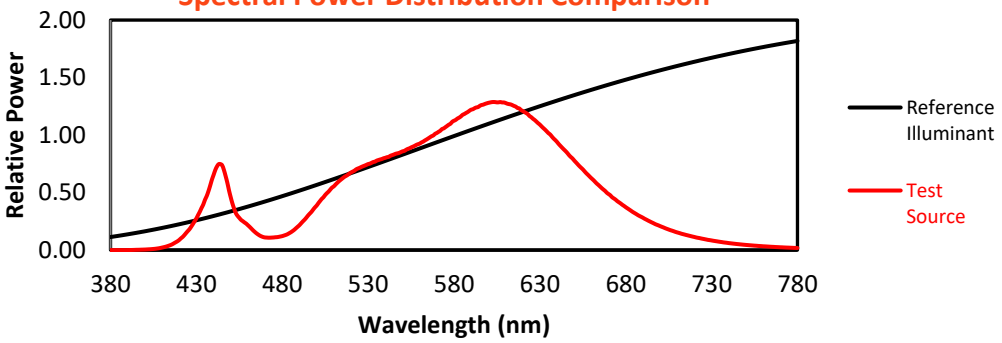
REPORT NUMBER: SP1-2408-195-9

TM-30-18

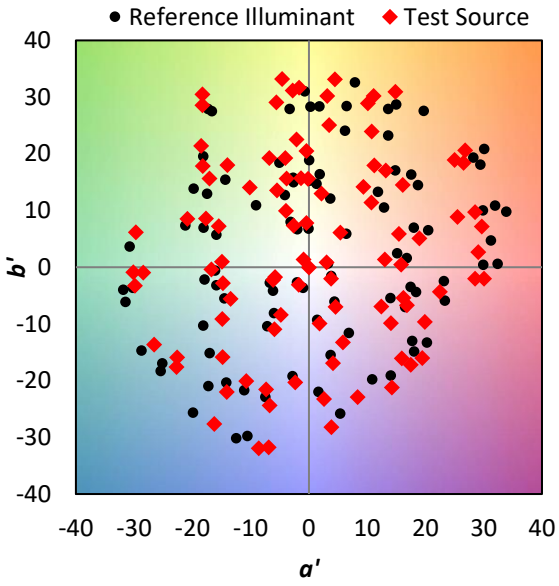
Summary

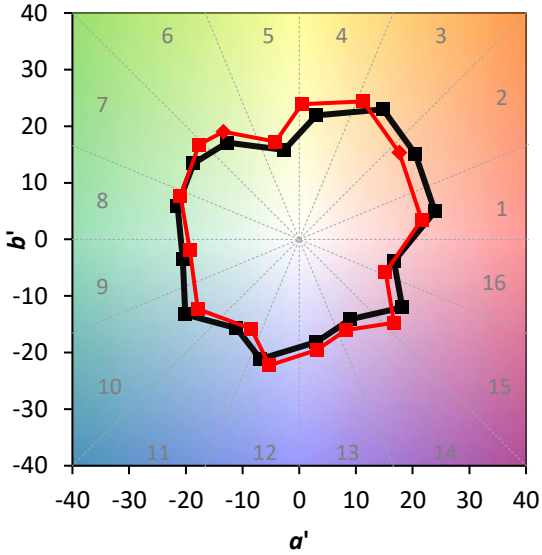
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

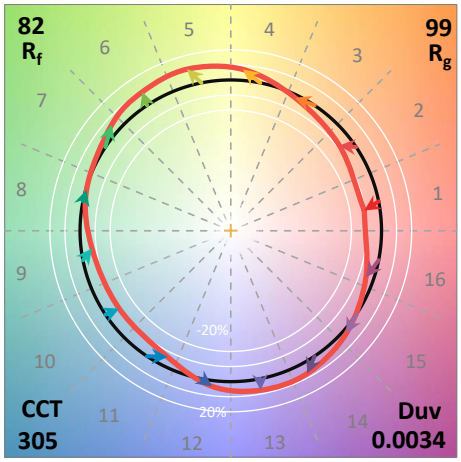
Spectral Power Distribution Comparison

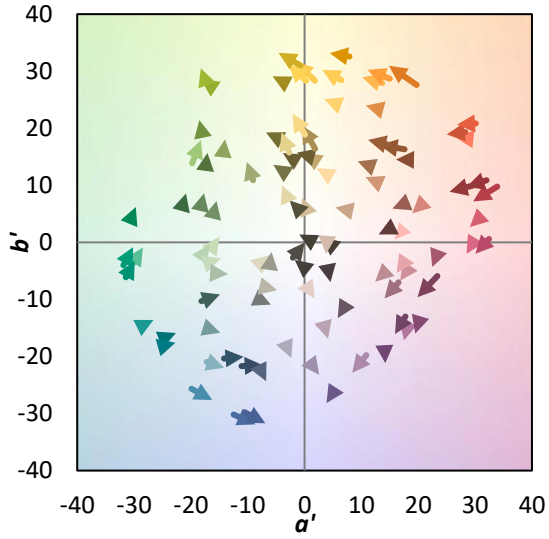


Color Vector Graphics







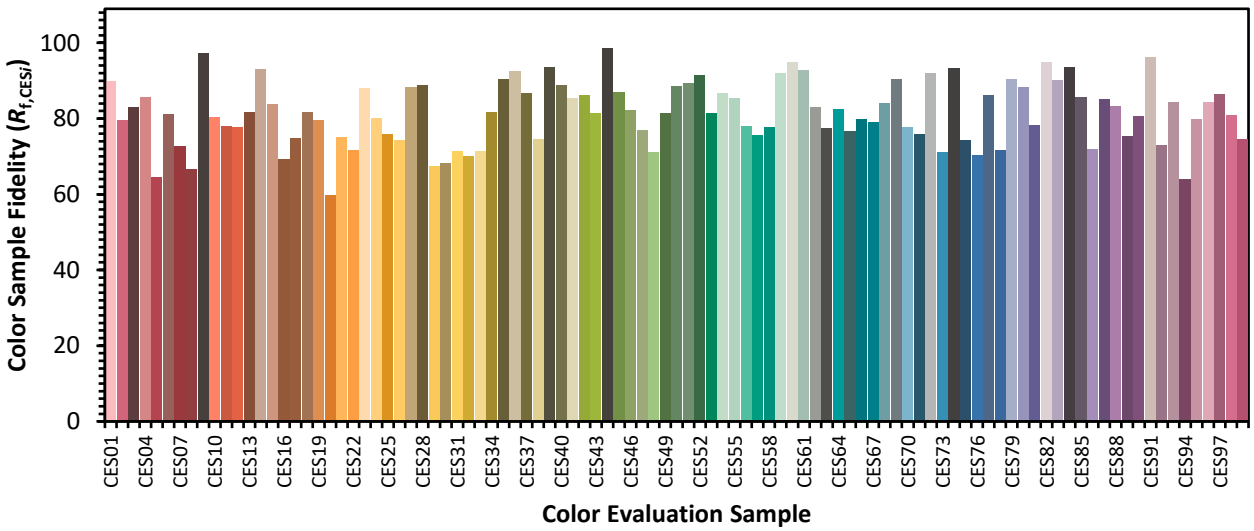


REPORT NUMBER: SP1-2408-195-9

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
CES25 = 72	CES50 = 89	CES75 = 74	



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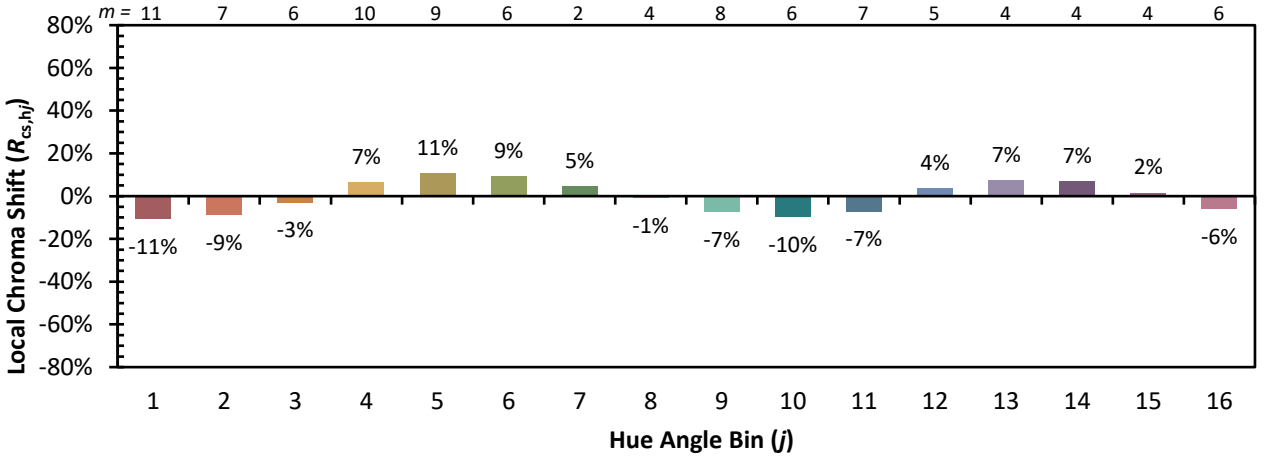
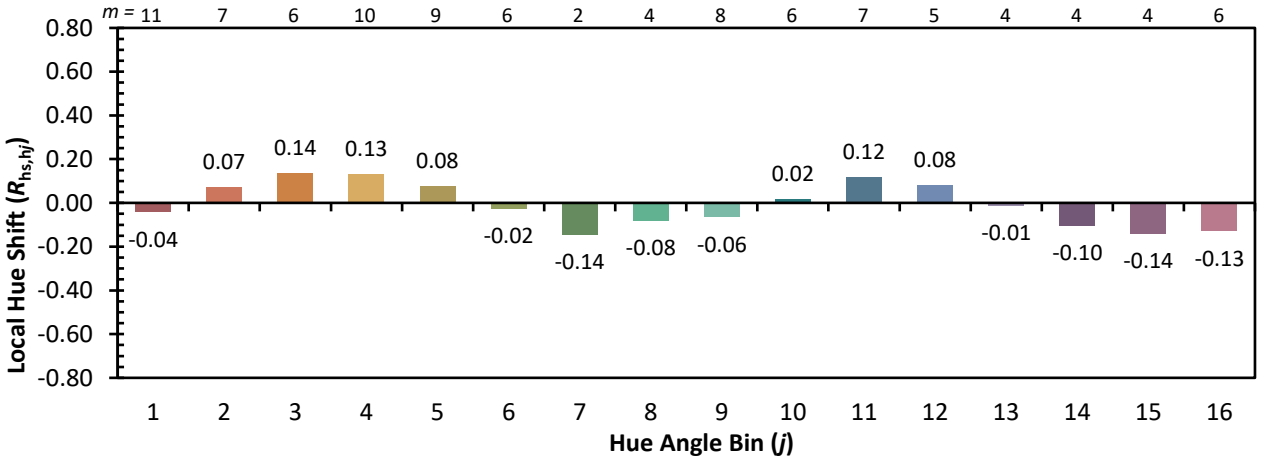
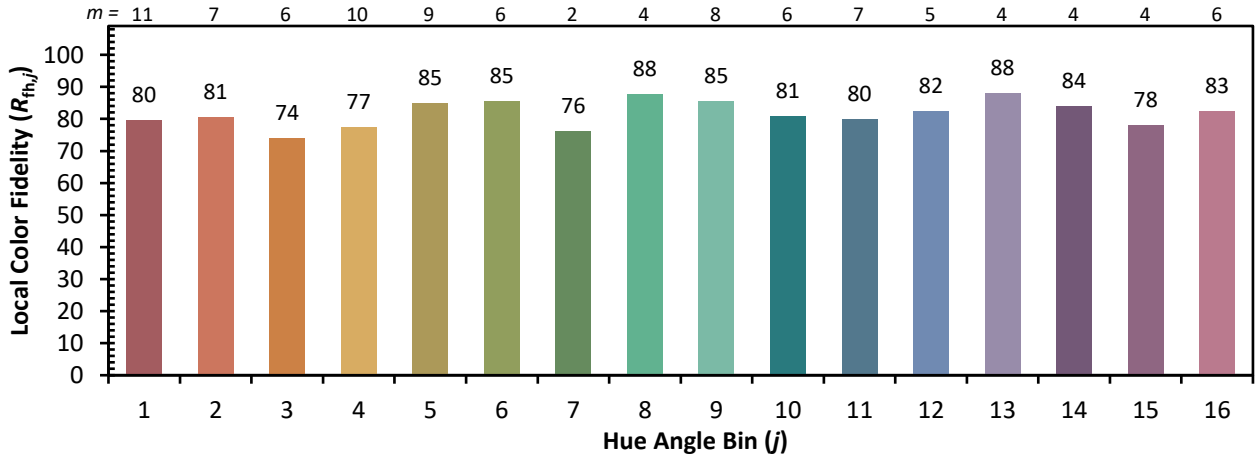
Color Rendition by Hue-Angle Bin







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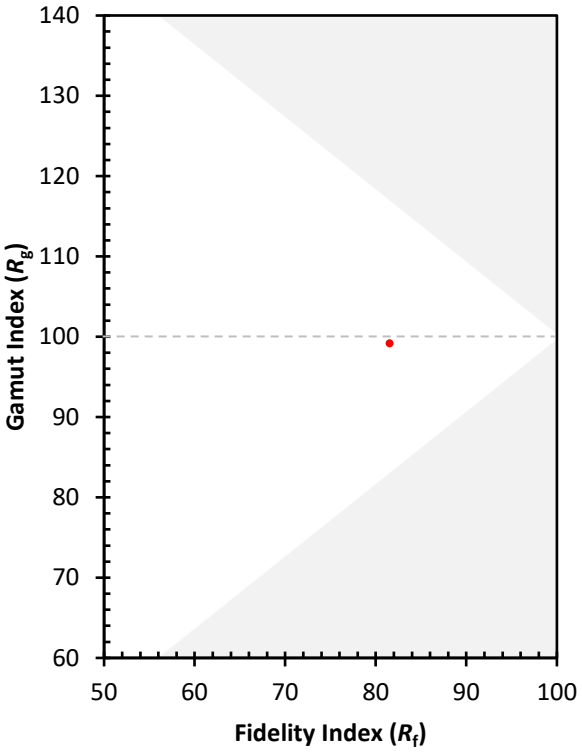
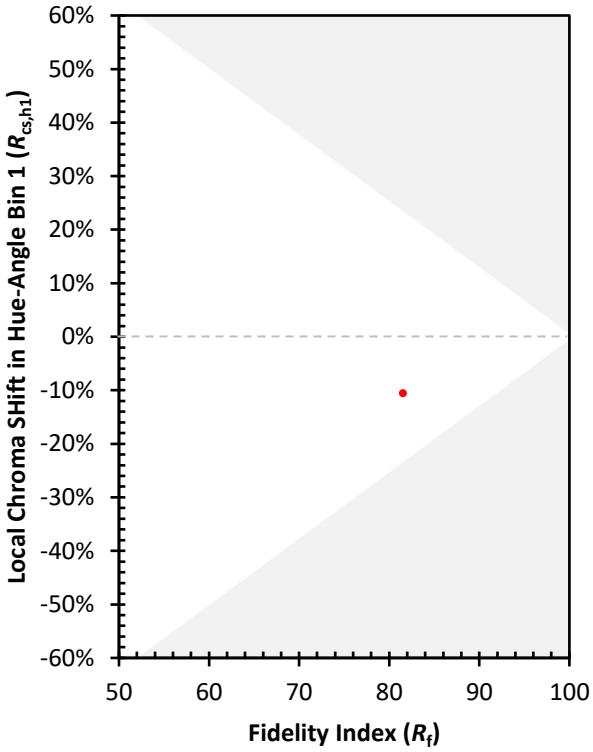
Measure Comparisons





(END OF REPORT)