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: P642940

Luminaire Tested: GWS-SA6D-830-U-SLR-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:	P642940
	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-SA6D-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:	17659.9 lumens
Efficiency:	N/A
Efficacy:	71.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - 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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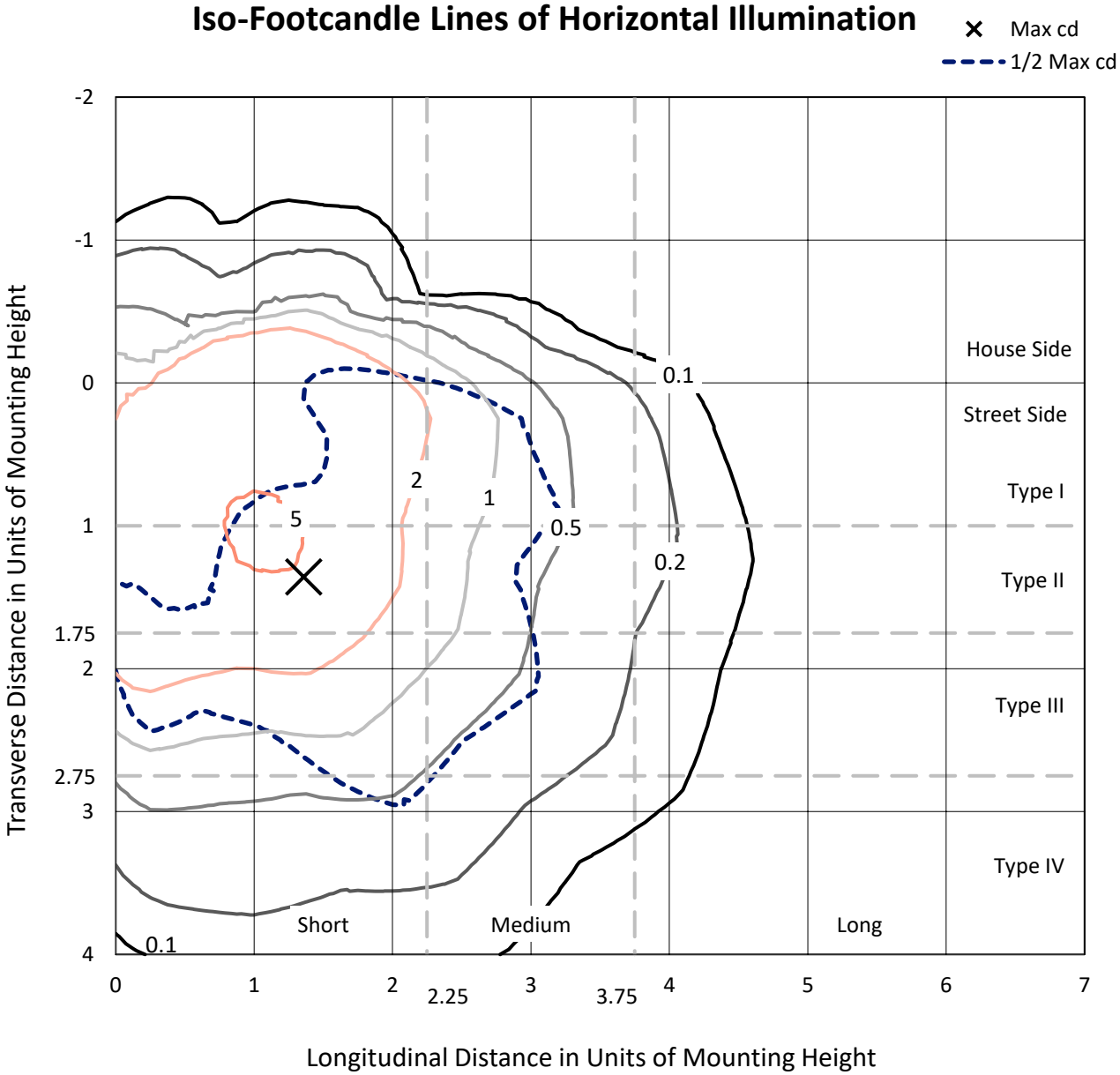
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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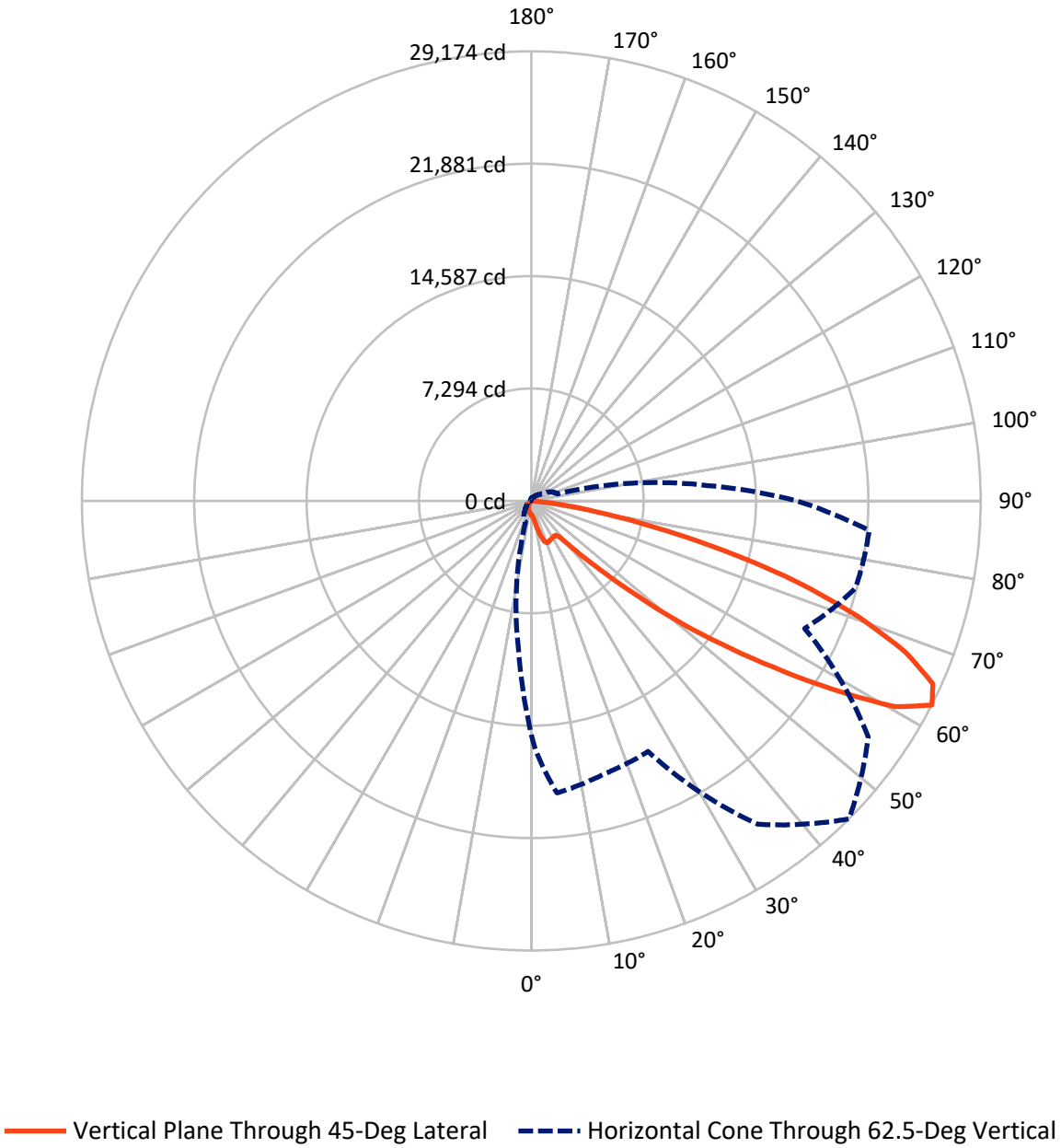
Luminous Intensity Polar Plot



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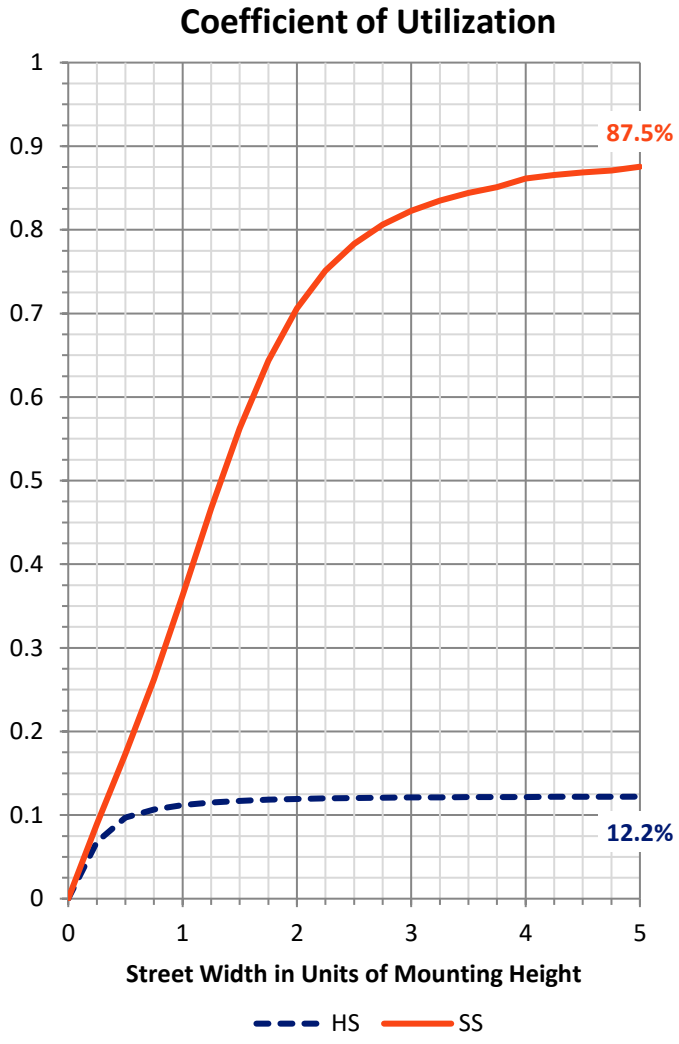
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2179.2	0.0	2179.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15480.7	0.0	15480.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	17659.9	0.0	17659.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	0.5
10°-20°	307.9	1.7
20°-30°	669.3	3.8
30°-40°	1098.6	6.2
40°-50°	2019.5	11.4
50°-60°	4337.0	24.6
60°-70°	5825.3	33.0
70°-80°	3033.3	17.2
80°-90°	287.6	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°	17659.9	100.0
0°-180°	17659.9	100.0



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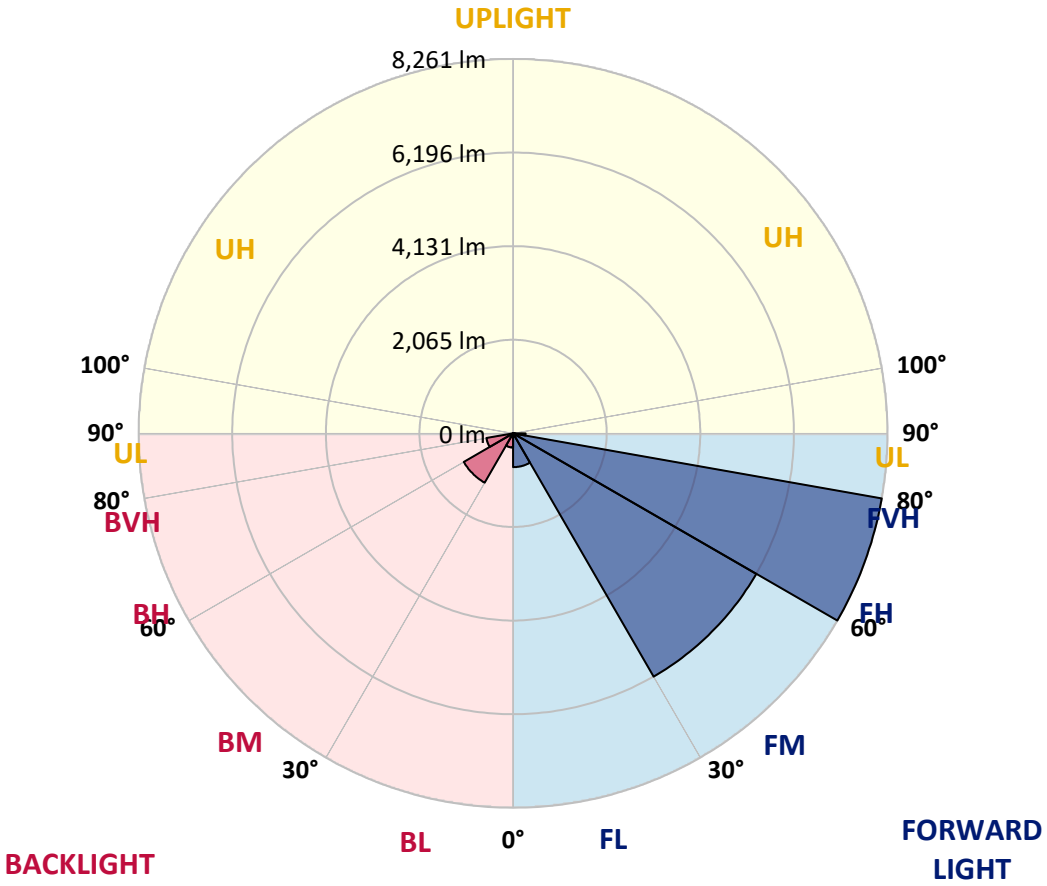
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	746.0	4.2			
FM	(30°-60°)	6198.4	35.1			
FH	(60°-80°)	8261.4	46.8			G4/12000
FVH	(80°-90°)	274.8	1.6			G3/500
BL	(0°-30°)	312.6	1.8	B1/500		
BM	(30°-60°)	1256.7	7.1	B2/2500		
BH	(60°-80°)	597.1	3.4	B2/1000		G2/1000
BVH	(80°-90°)	12.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	917.9	917.9	917.9	917.9	917.9	917.9	*917.9*	917.9	917.9	917.9	917.9
2.5°	936.3	940.4	944.5	958.7	968.9	977.1	*979.1*	973.0	958.7	944.5	924.1
5°	907.7	911.8	926.1	964.9	1003.6	1034.2	*1044.4*	1038.3	1003.6	958.7	911.8
7.5°	905.7	913.9	948.5	1030.1	1113.8	1177.0	*1193.3*	1179.0	1113.8	1024.0	928.1
10°	979.1	993.4	1044.4	1191.3	1344.3	1456.5	*1501.4*	1440.2	1336.1	1172.9	1015.9
12.5°	1170.9	1195.4	1293.3	1507.5	1744.1	1893.0	*1954.2*	1878.7	1715.5	1478.9	1230.0
15°	1472.8	1509.5	1656.4	1976.6	2256.1	2388.7	*2409.1*	2366.3	2176.5	1915.4	1580.9
17.5°	1899.1	1952.2	2180.6	2507.0	2709.0	2755.9	*2749.8*	2704.9	2566.2	2386.7	2070.5
20°	2409.1	2472.3	2696.7	2966.0	2986.4	2931.3	*2900.7*	2874.2	2827.3	2796.7	2549.8
22.5°	2923.1	3000.7	3235.2	3302.6	3119.0	2959.9	*2884.4*	2904.8	2974.1	3125.1	3025.1
25°	3435.2	3508.6	3728.9	3547.3	3180.2	2915.0	*2819.1*	2868.1	3033.3	3359.7	3488.2
27.5°	4032.8	4087.9	4218.5	3714.6	3190.4	2878.3	*2784.4*	2859.9	3061.9	3506.6	3996.1
30°	4655.0	4687.6	4624.4	3759.5	3155.7	2823.2	*2749.8*	2859.9	3110.8	3604.5	4377.6
32.5°	5111.9	5118.1	4912.0	3763.6	3137.3	2778.3	*2717.1*	2847.7	3157.7	3686.1	4746.8
35°	5583.1	5552.5	5187.4	3824.8	3186.3	2794.6	*2741.6*	2882.3	3231.2	3781.9	5071.1
37.5°	6060.5	6005.4	5495.4	3924.7	3312.8	2972.1	*2939.5*	3059.8	3349.5	3914.5	5428.1
40°	6550.0	6474.6	5815.7	4075.7	3594.3	3575.9	*3688.1*	3673.8	3673.8	4083.8	5795.3
42.5°	7147.7	7060.0	6288.9	4502.0	4251.1	4661.1	*4967.1*	4777.4	4426.5	4473.5	6272.6
45°	7937.2	7861.7	7109.0	5318.0	5281.2	6223.7	*6635.7*	6260.4	5387.3	5373.0	7070.2
47.5°	9199.9	9185.6	8416.5	6264.5	6541.9	8212.5	*9008.1*	8286.0	6482.7	6325.7	8579.7
50°	10974.5	10931.7	10046.4	7374.2	8041.2	10676.7	*12096.5*	10892.9	7806.6	7437.4	10601.2
52.5°	12973.6	13018.5	12329.0	8585.8	9634.3	13418.3	*15395.0*	13879.3	9244.7	8851.0	13145.0
55°	14856.4	15113.5	14931.9	10003.6	11190.8	16445.5	*19017.8*	17155.4	11025.5	10701.2	15996.7
57.5°	16329.2	17053.4	18326.3	12063.8	13020.5	19986.7	*23062.9*	20706.8	13104.2	13705.9	19878.6
60°	16410.8	17369.6	20325.3	16374.1	15374.6	23024.1	*27101.8*	24176.6	16372.1	18807.7	22920.1
62.5°	*15180.8*	*16208.9*	*19023.9*	*18332.4*	*17938.7*	*25608.6*	*29174.3*	*26706.1*	*19586.9*	*21796.1*	*22018.4*
65°	13773.3	14811.6	17571.5	16111.0	17640.9	25498.5	*28648.0*	26765.2	19878.6	19764.4	20404.9
67.5°	11645.7	12577.9	15076.7	14260.8	16259.9	24268.4	*26216.5*	25078.3	18314.0	18485.4	18771.0
70°	8500.2	9397.7	11717.1	11757.9	14199.6	22051.1	*22526.4*	22369.3	16865.7	17047.3	16231.3
72.5°	6140.0	6896.8	8897.9	9642.5	11335.6	18491.5	*18163.1*	18768.9	14470.9	15182.8	13036.9
75°	4414.3	4981.4	6527.6	8388.0	8985.7	13732.5	*13002.2*	14536.2	11611.0	13073.6	9801.6
77.5°	1791.0	1990.9	2568.2	5650.5	5905.4	9238.6	*7959.6*	10558.4	8277.8	8589.9	4750.9
80°	73.4	81.6	106.1	2917.0	4049.2	5197.6	*4259.3*	5644.3	5466.9	3459.6	1121.9
82.5°	8.2	8.2	18.4	840.4	1772.7	2868.1	*2007.2*	3251.6	2768.1	1466.7	510.0
85°	2.0	2.0	4.1	95.9	416.1	459.0	*271.3*	997.5	1287.2	599.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	10.2	18.4	20.4	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°	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9
2.5°	924.1	913.9	901.6	889.4	883.3	866.9	860.8	856.7	852.7	854.7	854.7
5°	893.5	871.0	844.5	818.0	803.7	787.4	779.2	775.2	777.2	785.4	785.4
7.5°	889.4	846.5	789.4	754.8	738.4	726.2	718.0	714.0	716.0	726.2	730.3
10°	956.7	881.2	779.2	720.1	701.7	689.5	681.3	675.2	671.1	679.3	681.3
12.5°	1101.5	997.5	828.2	716.0	683.4	667.0	660.9	648.7	642.6	646.6	648.7
15°	1401.4	1221.9	926.1	732.3	667.0	648.7	638.5	628.3	618.1	616.0	618.1
17.5°	1793.1	1536.0	1075.0	771.1	654.8	632.4	618.1	603.8	589.5	587.5	585.4
20°	2278.5	1921.6	1283.1	832.3	644.6	618.1	597.7	577.3	558.9	552.8	552.8
22.5°	2721.2	2386.7	1550.3	907.7	630.3	597.7	573.2	548.7	528.3	518.1	516.1
25°	3261.8	2880.3	1870.6	995.5	609.9	571.2	544.6	520.2	499.8	487.5	483.5
27.5°	3806.4	3400.5	2233.7	1109.7	585.4	544.6	520.2	497.7	475.3	461.0	456.9
30°	4334.7	3961.4	2641.6	1252.5	567.1	518.1	497.7	475.3	454.9	432.5	426.3
32.5°	4901.8	4534.6	3098.6	1411.6	552.8	499.8	477.3	456.9	430.4	410.0	399.8
35°	5448.5	5126.2	3602.4	1566.6	538.5	483.5	459.0	438.6	410.0	387.6	373.3
37.5°	5999.3	5728.0	4128.7	1660.5	518.1	461.0	438.6	422.3	389.6	363.1	346.8
40°	6582.7	6350.1	4697.8	1621.7	499.8	436.5	424.3	405.9	369.2	338.6	318.2
42.5°	7223.2	6943.7	5277.2	1472.8	483.5	416.1	403.9	385.5	350.9	314.1	287.6
45°	8029.0	7594.5	5752.5	1248.4	491.6	395.7	371.3	367.2	334.5	287.6	255.0
47.5°	9414.0	8594.0	6121.7	1103.6	546.7	373.3	344.7	354.9	320.3	261.1	224.4
50°	11533.5	10250.4	6466.4	1093.4	630.3	363.1	320.3	346.8	306.0	234.6	197.9
52.5°	13553.0	11933.3	6686.7	1183.1	703.8	389.6	295.8	336.6	295.8	216.2	179.5
55°	15484.7	12904.3	6293.0	1248.4	773.1	469.2	277.4	320.3	283.5	206.0	173.4
57.5°	17567.4	13336.7	4954.9	1381.0	822.1	536.5	281.5	295.8	267.2	199.9	171.3
60°	18189.6	12783.9	2990.5	1554.4	795.6	556.9	312.1	263.1	244.8	187.7	165.2
62.5°	*17222.7*	*11472.3*	*1764.5*	*1415.7*	*773.1*	*526.3*	*357.0*	*242.7*	*222.3*	*171.3*	*153.0*
65°	15776.4	9691.5	1150.5	1195.4	820.0	469.2	379.4	232.5	201.9	155.0	134.6
67.5°	14124.1	7806.6	805.8	705.8	756.8	422.3	320.3	230.5	181.5	130.6	110.2
70°	11896.6	5846.3	567.1	467.1	630.3	375.3	248.9	224.4	159.1	106.1	85.7
72.5°	9191.7	3659.5	422.3	301.9	448.8	306.0	197.9	189.7	128.5	87.7	65.3
75°	6778.5	2086.8	297.8	218.3	295.8	232.5	146.9	134.6	110.2	83.6	59.2
77.5°	3539.2	1044.4	185.6	167.3	169.3	144.8	106.1	97.9	102.0	83.6	55.1
80°	679.3	208.1	112.2	122.4	91.8	91.8	77.5	81.6	89.8	67.3	46.9
82.5°	283.5	44.9	61.2	69.4	57.1	63.2	63.2	65.3	63.2	49.0	34.7
85°	0.0	0.0	26.5	28.6	38.8	38.8	32.6	32.6	32.6	28.6	20.4
87.5°	0.0	0.0	0.0	0.0	2.0	6.1	12.2	14.3	16.3	12.2	8.2
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°	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9
2.5°	852.7	848.6	854.7	858.8	862.9	862.9	858.8	854.7	848.6	854.7	848.6
5°	787.4	793.5	803.7	807.8	811.9	803.7	799.6	787.4	777.2	779.2	775.2
7.5°	736.4	742.5	754.8	762.9	762.9	758.8	746.6	734.4	718.0	718.0	716.0
10°	689.5	697.6	711.9	722.1	726.2	722.1	709.9	693.6	679.3	679.3	673.2
12.5°	650.7	660.9	677.2	691.5	695.6	691.5	679.3	663.0	646.6	646.6	642.6
15°	618.1	630.3	648.7	665.0	671.1	665.0	650.7	630.3	614.0	616.0	609.9
17.5°	587.5	597.7	622.2	640.5	646.6	640.5	622.2	595.6	579.3	583.4	579.3
20°	552.8	565.0	589.5	609.9	616.0	609.9	589.5	561.0	544.6	544.6	546.7
22.5°	516.1	528.3	552.8	567.1	575.2	569.1	548.7	522.2	505.9	505.9	507.9
25°	483.5	489.6	507.9	522.2	524.2	518.1	501.8	481.4	469.2	475.3	477.3
27.5°	452.9	452.9	461.0	469.2	467.1	461.0	454.9	438.6	436.5	442.7	448.8
30°	420.2	410.0	405.9	399.8	397.8	395.7	401.9	401.9	405.9	414.1	420.2
32.5°	391.7	371.3	352.9	334.5	324.3	332.5	348.8	363.1	377.4	389.6	395.7
35°	359.0	326.4	295.8	271.3	255.0	267.2	293.7	320.3	344.7	361.1	371.3
37.5°	326.4	279.5	242.7	212.1	199.9	210.1	238.7	275.4	312.1	332.5	346.8
40°	291.7	232.5	189.7	165.2	153.0	163.2	191.7	228.5	277.4	303.9	322.3
42.5°	257.0	191.7	153.0	128.5	122.4	128.5	151.0	187.7	240.7	273.3	297.8
45°	222.3	159.1	122.4	104.0	97.9	104.0	122.4	153.0	206.0	242.7	271.3
47.5°	191.7	134.6	102.0	85.7	81.6	87.7	102.0	128.5	173.4	210.1	242.7
50°	167.3	118.3	87.7	73.4	69.4	75.5	87.7	108.1	146.9	179.5	214.2
52.5°	151.0	110.2	77.5	63.2	61.2	65.3	75.5	91.8	124.4	153.0	185.6
55°	146.9	110.2	71.4	57.1	55.1	59.2	67.3	79.6	108.1	132.6	161.2
57.5°	151.0	118.3	67.3	49.0	46.9	51.0	59.2	69.4	93.8	114.2	140.8
60°	151.0	120.4	59.2	38.8	36.7	40.8	49.0	61.2	83.6	100.0	122.4
62.5°	*136.7*	*110.2*	*49.0*	*30.6*	*26.5*	*30.6*	*40.8*	*51.0*	*73.4*	*89.8*	*108.1*
65°	118.3	93.8	40.8	22.4	18.4	22.4	32.6	42.8	63.2	77.5	97.9
67.5°	95.9	71.4	30.6	16.3	12.2	16.3	24.5	34.7	53.0	67.3	87.7
70°	71.4	51.0	24.5	14.3	12.2	14.3	22.4	32.6	46.9	61.2	81.6
72.5°	53.0	34.7	20.4	14.3	10.2	14.3	20.4	30.6	44.9	59.2	77.5
75°	44.9	28.6	18.4	12.2	10.2	12.2	18.4	28.6	40.8	55.1	73.4
77.5°	42.8	26.5	16.3	10.2	8.2	10.2	16.3	24.5	36.7	51.0	71.4
80°	36.7	22.4	14.3	8.2	6.1	8.2	14.3	20.4	28.6	38.8	55.1
82.5°	28.6	18.4	10.2	4.1	2.0	4.1	10.2	12.2	18.4	22.4	32.6
85°	18.4	10.2	4.1	0.0	0.0	0.0	4.1	8.2	8.2	10.2	16.3
87.5°	8.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1	6.1
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: P642940
CATALOG NUMBER: GWS-SA6D-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9	917.9
2.5°	860.8	862.9	866.9	873.1	887.3	899.6	911.8	928.1	936.3	936.3
5°	779.2	781.3	783.3	791.5	811.9	828.2	854.7	887.3	903.7	907.7
7.5°	716.0	720.1	724.2	730.3	750.7	773.1	807.8	869.0	899.6	905.7
10°	679.3	685.4	693.6	705.8	724.2	748.6	807.8	917.9	968.9	979.1
12.5°	650.7	660.9	669.1	683.4	705.8	744.6	862.9	1056.7	1146.4	1170.9
15°	622.2	634.4	646.6	660.9	685.4	758.8	968.9	1305.5	1454.4	1472.8
17.5°	593.6	607.9	624.2	640.5	671.1	793.5	1136.2	1650.3	1858.3	1899.1
20°	561.0	579.3	601.8	622.2	656.8	848.6	1368.8	2060.3	2321.4	2409.1
22.5°	526.3	548.7	575.2	601.8	640.5	915.9	1650.3	2500.9	2866.0	2923.1
25°	497.7	520.2	544.6	571.2	614.0	997.5	1990.9	3047.6	3380.1	3435.2
27.5°	471.2	493.7	516.1	540.6	587.5	1103.6	2400.9	3628.9	3975.7	4032.8
30°	442.7	469.2	491.6	516.1	563.0	1234.1	2874.2	4273.5	4602.0	4655.0
32.5°	418.2	444.7	467.1	491.6	544.6	1376.9	3371.9	4844.7	5111.9	5111.9
35°	397.8	426.3	442.7	475.3	530.4	1468.7	3843.1	5389.4	5591.3	5583.1
37.5°	375.3	410.0	422.3	444.7	512.0	1478.9	4285.8	5964.6	6113.5	6060.5
40°	352.9	389.6	408.0	420.2	491.6	1395.3	4771.3	6492.9	6619.4	6550.0
42.5°	332.5	361.1	387.6	401.9	479.4	1248.4	5160.9	7058.0	7208.9	7147.7
45°	312.1	336.6	352.9	379.4	487.5	1146.4	5495.4	7716.9	7982.0	7937.2
47.5°	291.7	312.1	322.3	363.1	542.6	1099.5	5699.4	8736.8	9236.6	9199.9
50°	269.3	293.7	293.7	359.0	624.2	1115.8	5876.9	10213.7	10986.8	10974.5
52.5°	246.8	273.3	269.3	389.6	687.4	1191.3	6078.8	11517.2	12861.4	12973.6
55°	224.4	248.9	252.9	450.8	724.2	1256.6	5297.6	12065.9	14462.7	14856.4
57.5°	199.9	214.2	263.1	497.7	711.9	1446.3	3628.9	12165.8	15484.7	16329.2
60°	173.4	185.6	297.8	487.5	673.2	1336.1	2284.7	11268.3	15339.9	16410.8
62.5°	*151.0*	*171.3*	*314.1*	*430.4*	*685.4*	*1158.7*	*1456.5*	*9603.7*	*13958.9*	*15180.8*
65°	132.6	165.2	285.6	389.6	693.6	785.4	983.2	7812.7	12610.5	13773.3
67.5°	118.3	183.6	234.6	346.8	595.6	552.8	675.2	6070.7	10603.3	11645.7
70°	108.1	187.7	191.7	297.8	461.0	354.9	444.7	4085.9	7308.9	8500.2
72.5°	97.9	138.7	144.8	238.7	297.8	216.2	287.6	2337.7	5328.2	6140.0
75°	93.8	93.8	100.0	155.0	165.2	157.1	185.6	1395.3	3820.7	4414.3
77.5°	87.7	71.4	63.2	100.0	89.8	112.2	110.2	620.1	1656.4	1791.0
80°	69.4	51.0	42.8	63.2	61.2	75.5	65.3	51.0	75.5	73.4
82.5°	42.8	32.6	30.6	38.8	34.7	38.8	30.6	8.2	8.2	8.2
85°	20.4	18.4	16.3	16.3	18.4	16.3	12.2	4.1	2.0	2.0
87.5°	10.2	10.2	8.2	6.1	8.2	8.2	6.1	2.0	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.

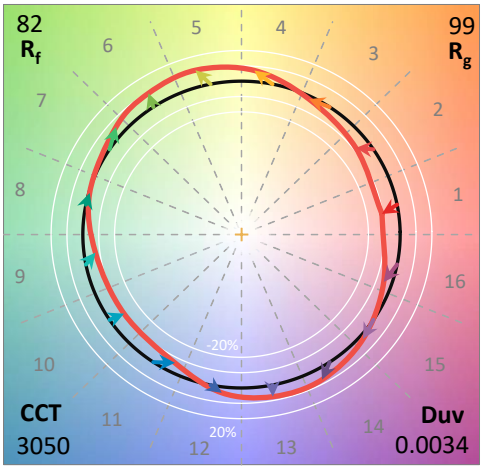
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

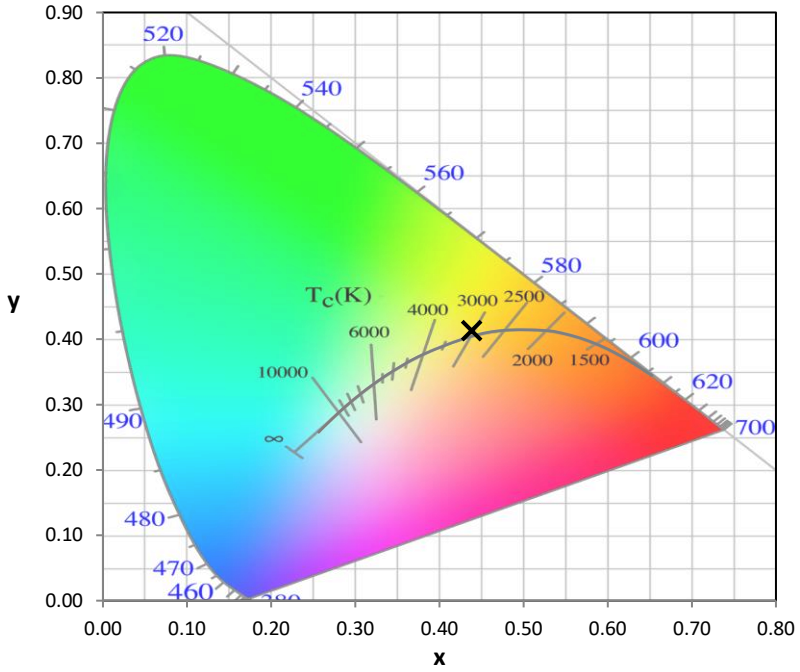
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

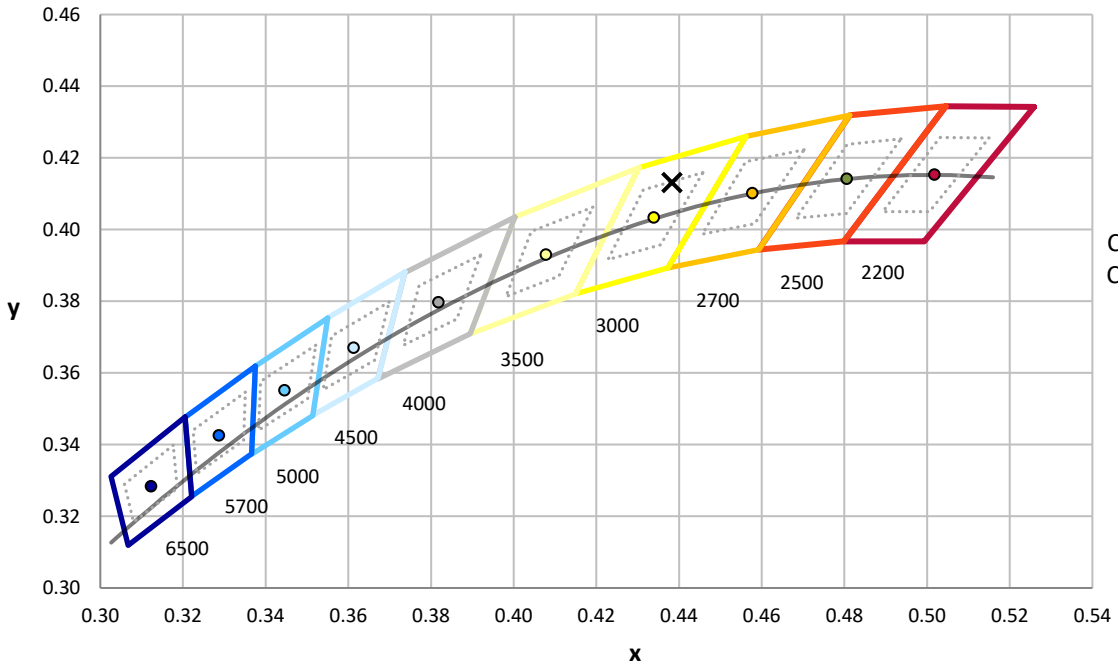
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

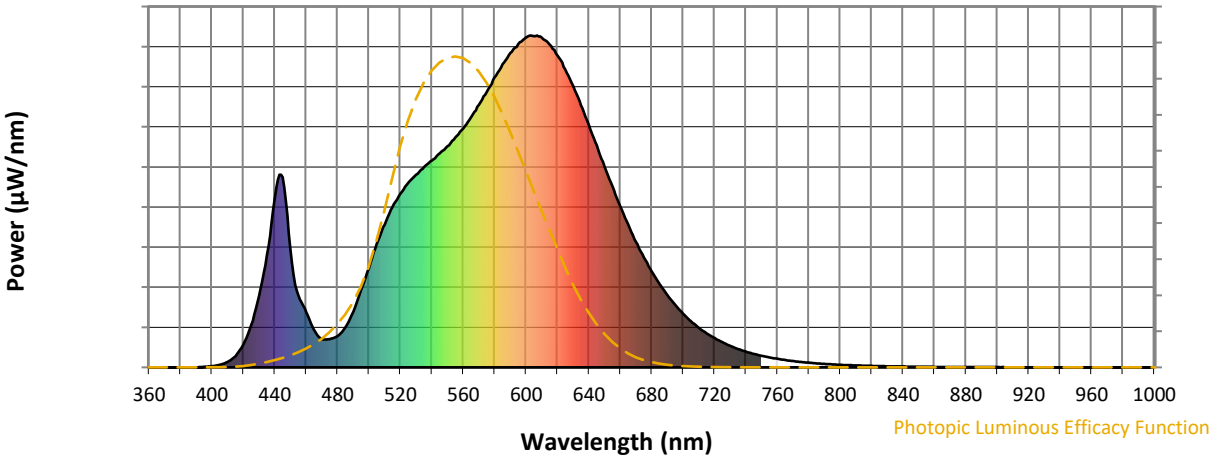


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

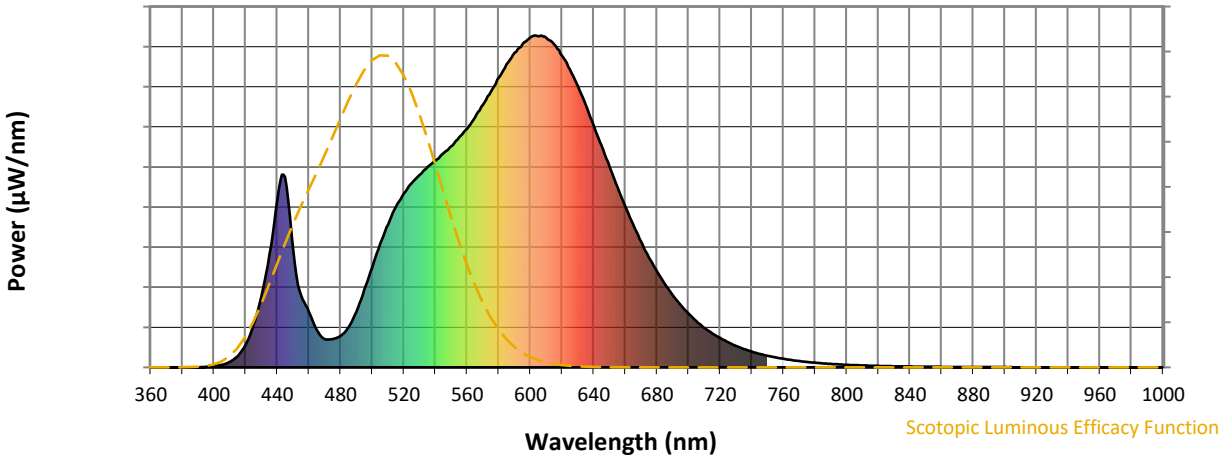


Photopic Lumens: NR

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

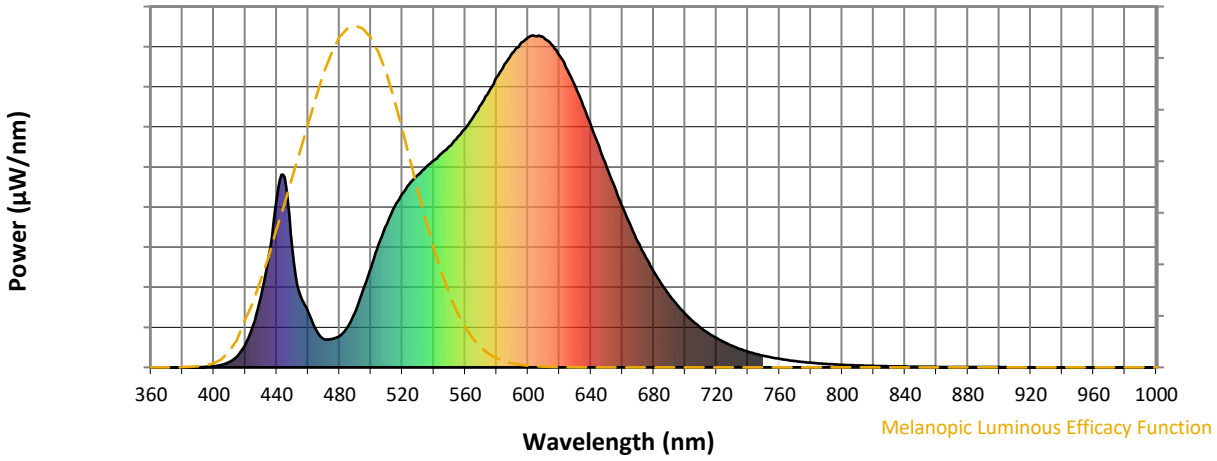


Scotopic Lumens: NR **S/P: 1.27**

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			

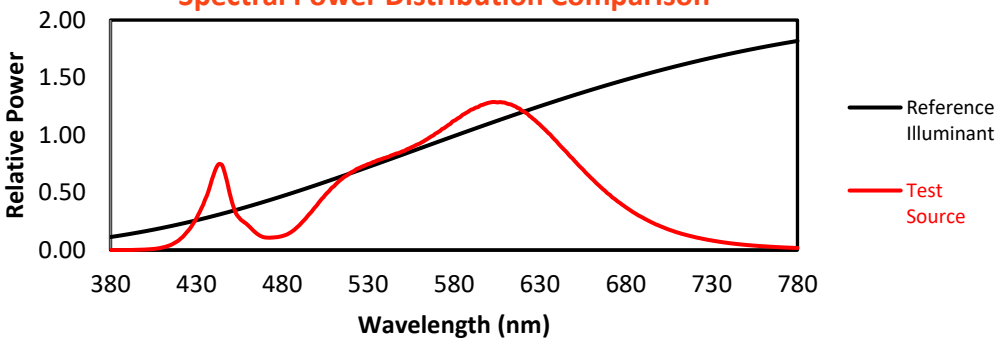
REPORT NUMBER: SP1-2408-195-9

TM-30-18

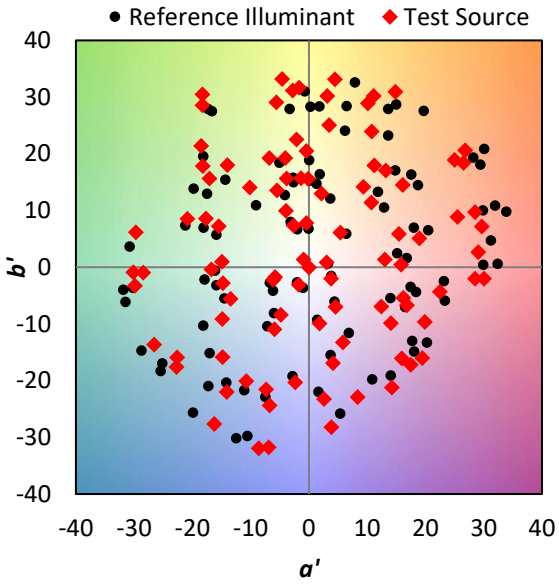
Summary

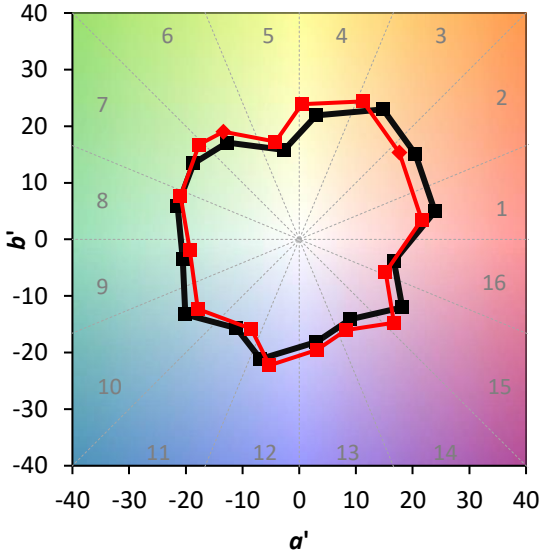
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

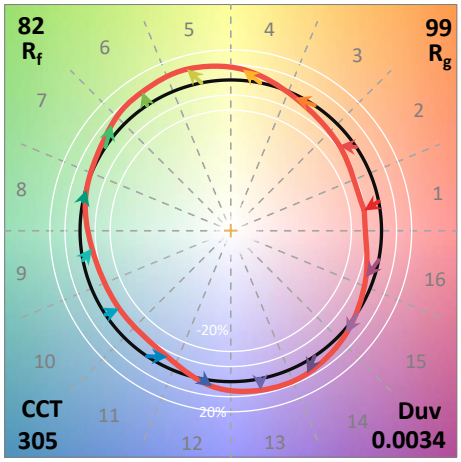
Spectral Power Distribution Comparison

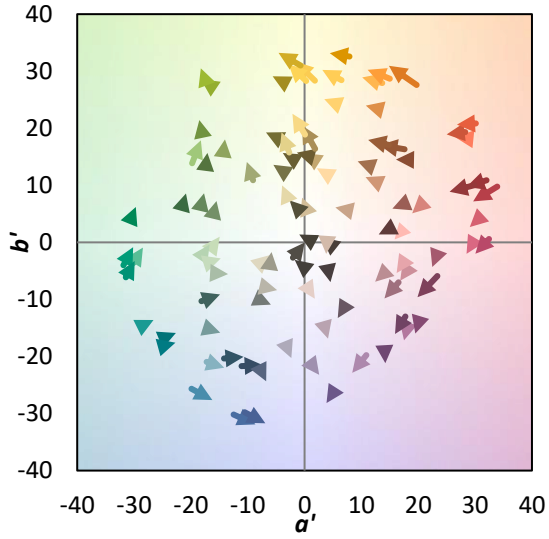


Color Vector Graphics









REPORT NUMBER: SP1-2408-195-9

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
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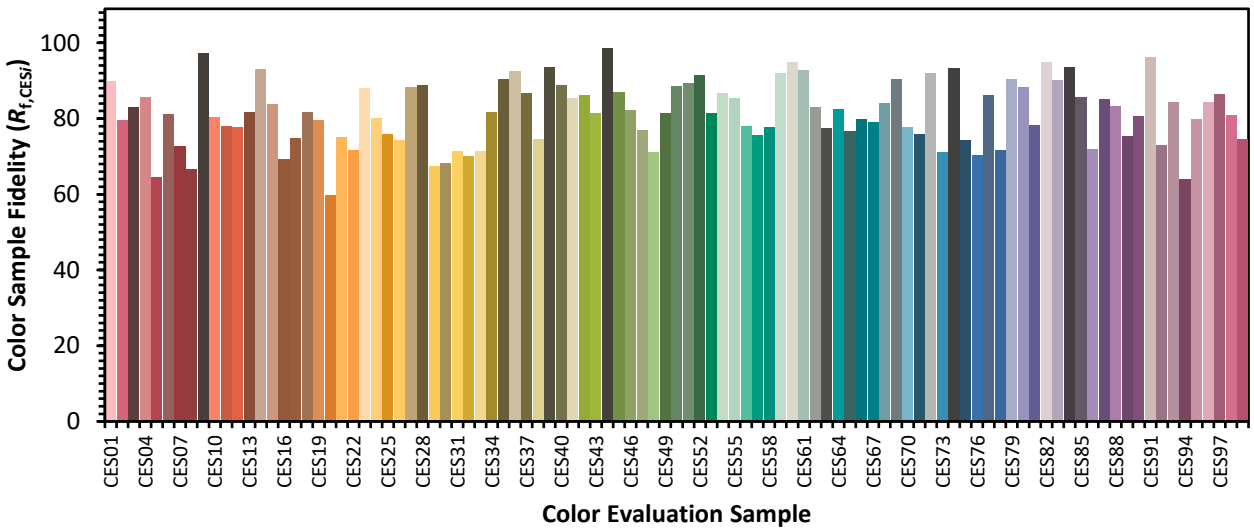

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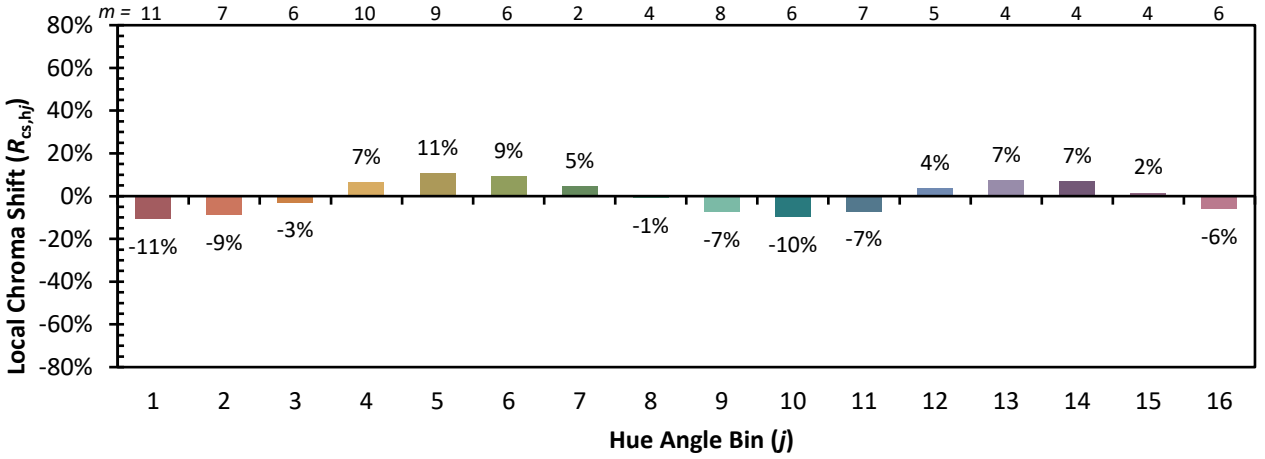
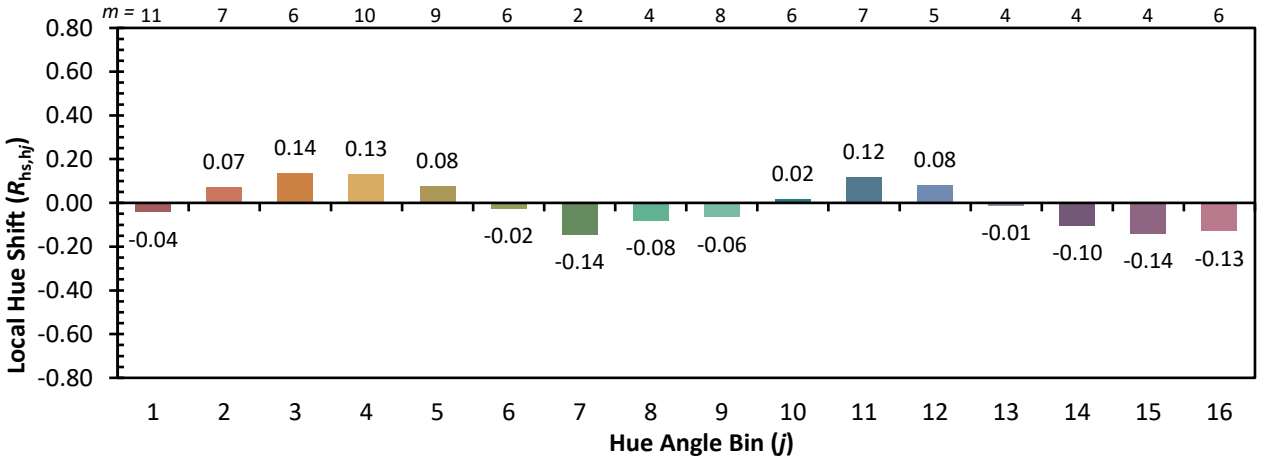
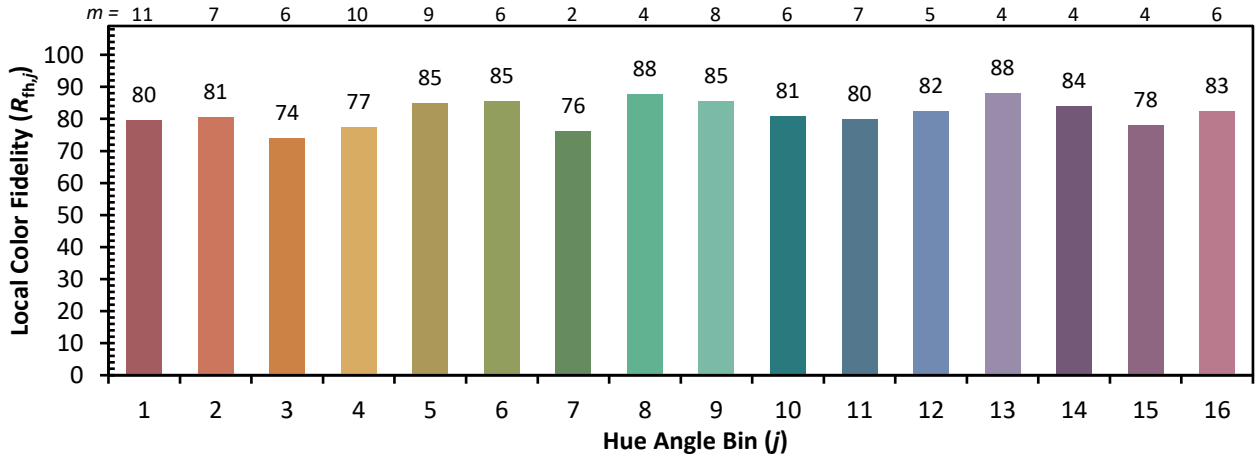
Color Rendition by Hue-Angle Bin







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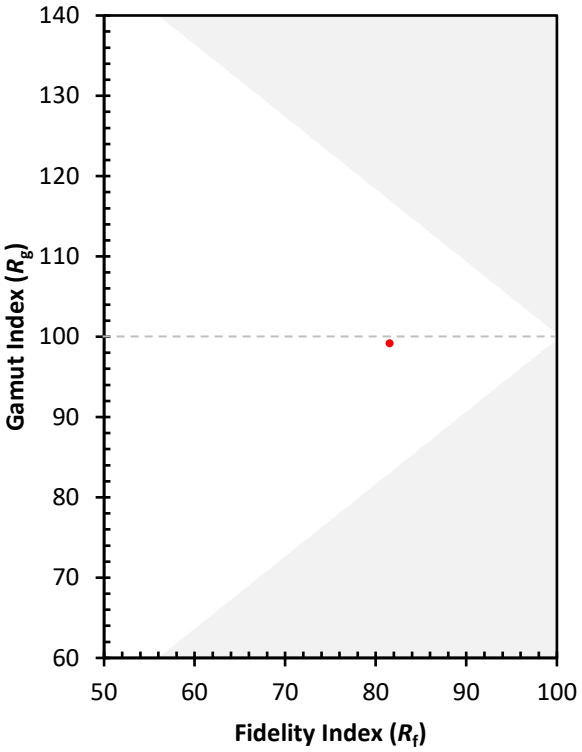
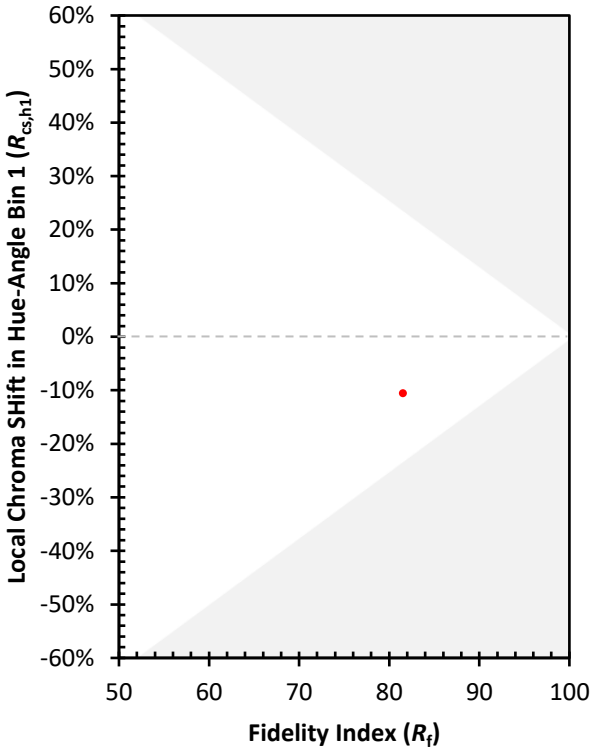
Measure Comparisons





(END OF REPORT)