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: P642444

Luminaire Tested: GWS-SA6C-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P642444
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-SLR-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17648 lumens
Efficiency:	N/A
Efficacy:	93.3 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G3

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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REPORT NUMBER: P642444
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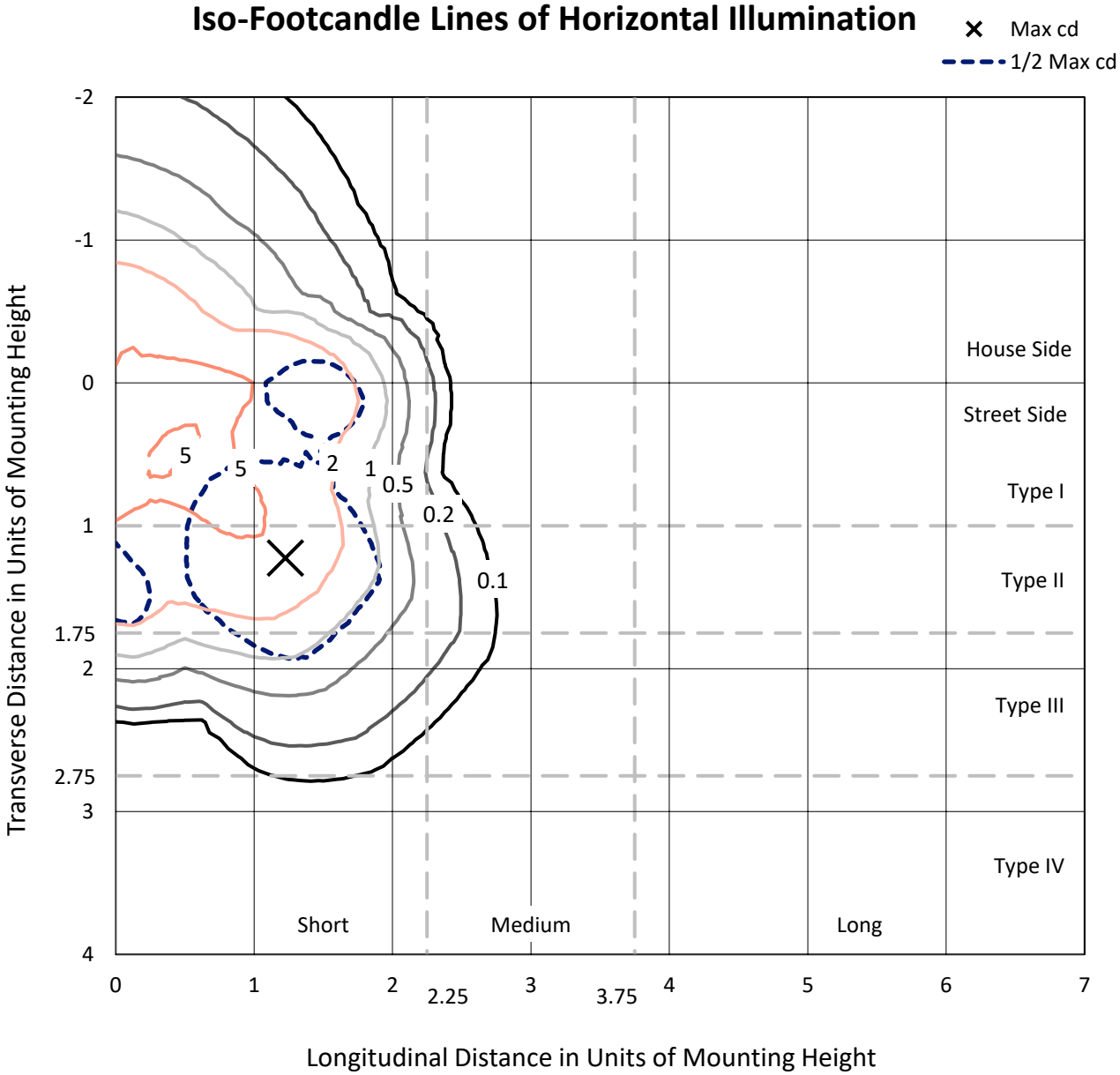
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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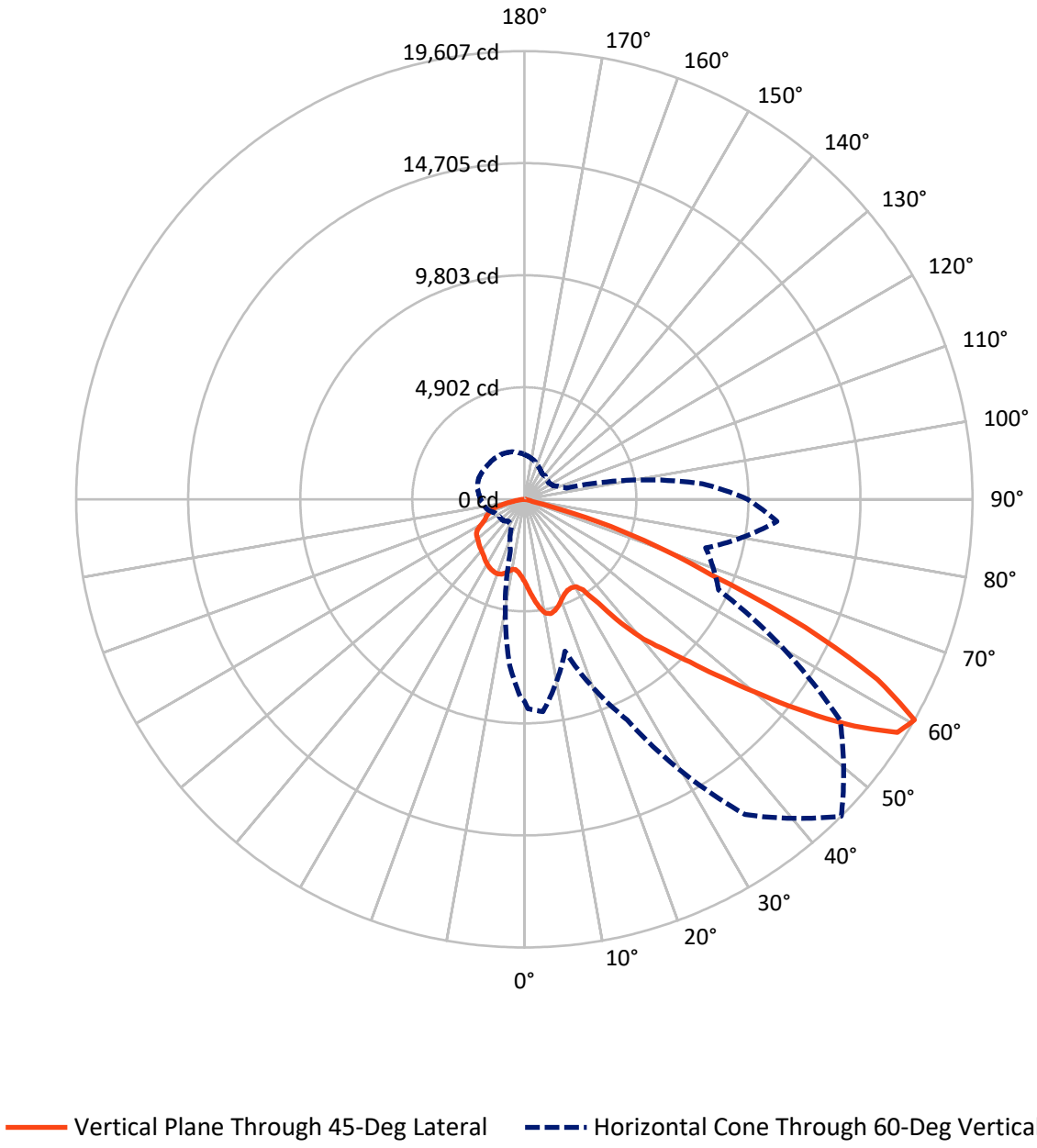
Luminous Intensity Polar Plot



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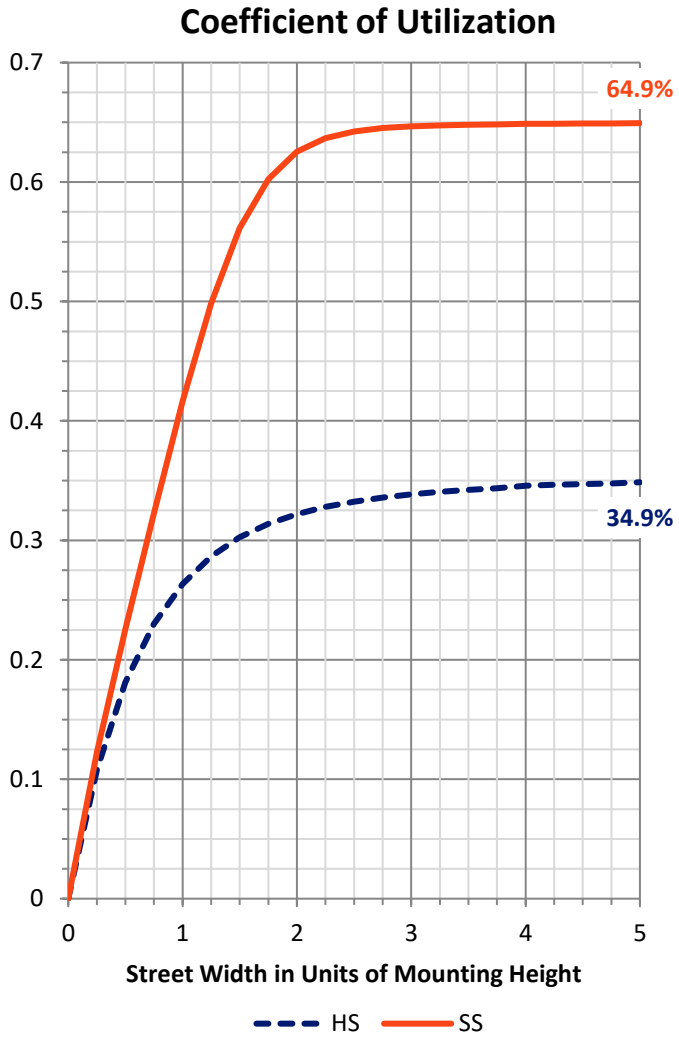
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6186.3	0.0	6186.3
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	11461.7	0.0	11461.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	17648.0	0.0	17648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.7	2.0
10°-20°	1117.7	6.3
20°-30°	1815.7	10.3
30°-40°	2560.6	14.5
40°-50°	3538.7	20.1
50°-60°	4555.4	25.8
60°-70°	2886.3	16.4
70°-80°	740.6	4.2
80°-90°	79.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17648.0	100.0
0°-180°	17648.0	100.0



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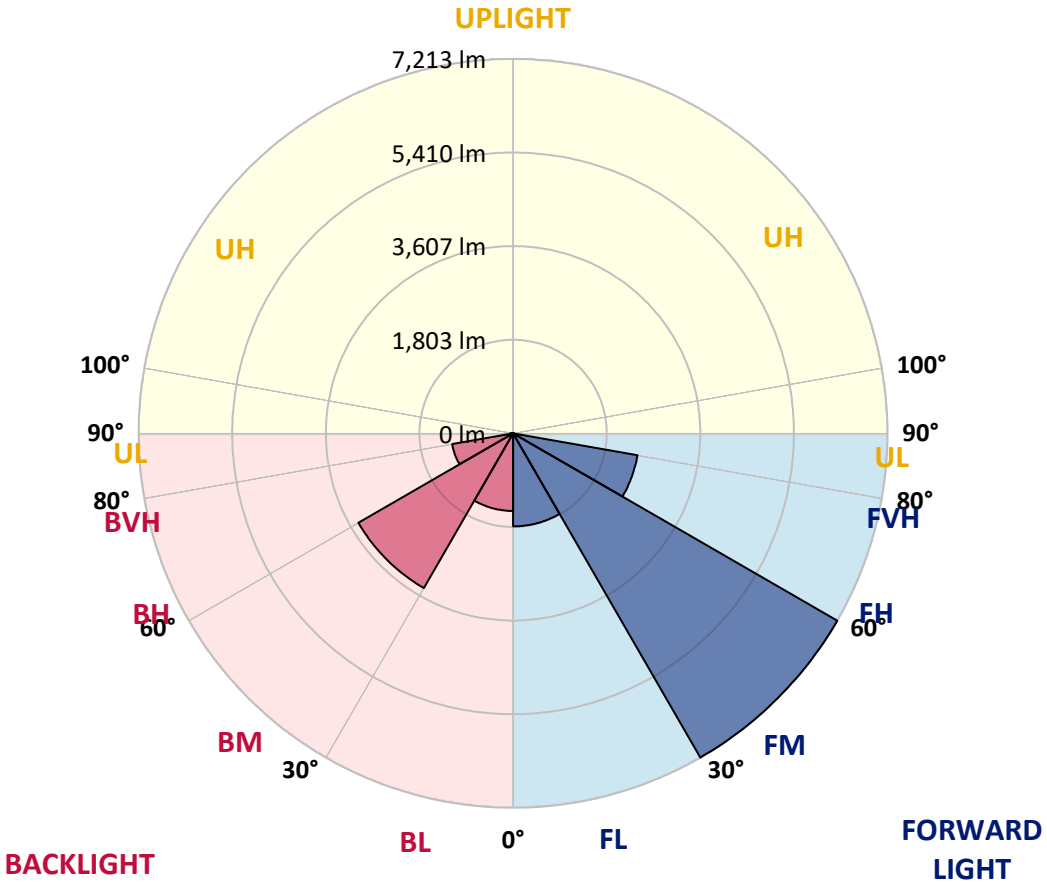
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1791.9	10.2			
FM	(30°-60°)	7213.5	40.9			
FH	(60°-80°)	2434.8	13.8			G2/5000
FVH	(80°-90°)	21.5	0.1			G1/100
BL	(0°-30°)	1495.2	8.5	B3/2500		
BM	(30°-60°)	3441.2	19.5	B3/5000		
BH	(60°-80°)	1192.1	6.8	B3/2500		G3/2500
BVH	(80°-90°)	57.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	*3625.4*	3625.4	3625.4	3625.4	3625.4
2.5°	3792.0	3817.8	3834.0	3864.7	3919.7	3950.4	*3984.4*	3947.2	3956.9	3952.1	3892.2
5°	4016.7	4047.5	4089.5	4180.1	4281.9	4338.5	*4391.9*	4383.8	4333.7	4249.6	4189.8
7.5°	4227.0	4262.5	4335.3	4482.5	4632.8	4720.2	*4784.8*	4742.8	4700.8	4568.2	4417.8
10°	4391.9	4412.9	4511.6	4708.8	4883.5	4982.1	*5061.4*	5051.7	4993.4	4844.7	4642.5
12.5°	4547.1	4561.7	4668.4	4865.7	5022.5	5066.2	*5130.9*	5151.9	5132.5	5020.9	4822.0
15°	4713.7	4741.2	4839.8	4990.2	5061.4	5016.1	*5038.7*	5096.9	5151.9	5151.9	4969.2
17.5°	4868.9	4893.2	4993.4	5058.1	4990.2	4870.5	*4877.0*	4951.4	5082.4	5219.8	5103.4
20°	5006.4	5029.0	5127.7	5066.2	4851.1	4676.5	*4671.6*	4762.2	4974.0	5263.5	5247.3
22.5°	5156.8	5189.1	5271.6	5072.7	4721.8	4500.2	*4498.6*	4592.4	4878.6	5307.1	5412.3
25°	5370.2	5420.3	5462.4	5129.3	4652.2	4385.4	*4406.4*	4495.4	4847.9	5378.3	5656.4
27.5°	5687.1	5727.6	5724.3	5247.3	4649.0	4338.5	*4382.2*	4485.7	4902.9	5504.4	5913.5
30°	6030.0	6051.0	6017.0	5412.3	4723.4	4367.6	*4432.3*	4555.2	5041.9	5713.0	6291.9
32.5°	6410.0	6435.8	6371.2	5659.7	4896.4	4582.7	*4725.0*	4784.8	5237.6	6013.8	6693.0
35°	6846.6	6896.7	6762.5	5986.3	5405.8	5367.0	*5574.0*	5496.3	5653.2	6369.5	7121.5
37.5°	7305.8	7307.4	7115.0	6469.8	6405.1	6471.4	*6885.4*	6642.8	6534.5	6765.7	7558.1
40°	7695.5	7685.8	7389.9	7121.5	7275.1	7538.7	*8038.3*	7666.4	7381.8	7297.7	7920.3
42.5°	8085.2	8049.7	7750.5	7535.4	7875.0	8416.7	*8981.1*	8525.1	7925.1	7781.2	8277.7
45°	8583.3	8572.0	8211.4	7700.4	8416.7	9399.9	*10148.6*	9409.6	8246.9	8062.6	8872.7
47.5°	9387.0	9332.0	8660.9	7687.4	8924.5	10709.7	*11655.7*	10523.7	8471.7	8069.1	9833.3
50°	10172.8	10104.9	9197.8	7685.8	9448.4	12068.0	*13434.4*	11877.2	8701.3	8107.9	10810.0
52.5°	10966.8	10966.8	10079.0	7868.5	9998.2	13584.8	*15489.7*	13563.8	9092.6	8615.6	12011.4
55°	11439.0	11565.1	11070.3	8177.4	10641.8	15370.0	*17522.3*	15384.6	9697.4	9532.5	13120.7
57.5°	10839.1	11075.1	11004.0	7962.3	11021.8	16681.4	*19246.1*	16765.5	9996.6	9640.8	12954.2
60°	*8832.3*	*9160.6*	*9323.9*	*6875.7*	*10646.6*	*16833.4*	*19606.7*	*16856.1*	*9378.9*	*8209.7*	*11096.2*
62.5°	5871.5	6141.5	6390.6	4912.6	9217.2	15143.6	*17341.2*	15148.5	7833.0	6127.0	7687.4
65°	2880.0	3080.5	3348.9	2904.2	7200.7	12653.4	*13520.1*	12241.0	5666.1	3429.8	3921.3
67.5°	753.5	810.1	847.3	1127.1	5158.4	9091.0	*8817.8*	8953.6	3640.0	1120.6	1025.2
70°	391.3	394.6	392.9	465.7	3486.4	5777.7	*6076.9*	5622.5	2540.4	468.9	404.3
72.5°	279.7	281.4	276.5	313.7	1683.3	3310.1	*3429.8*	3392.6	1330.8	278.1	276.5
75°	182.7	184.3	181.1	184.3	253.9	376.8	*347.7*	365.5	221.5	176.3	176.3
77.5°	108.3	110.0	108.3	111.6	108.3	108.3	*100.3*	100.3	95.4	95.4	97.0
80°	72.8	72.8	71.2	74.4	67.9	67.9	*64.7*	63.1	58.2	56.6	56.6
82.5°	43.7	45.3	43.7	43.7	40.4	40.4	*37.2*	35.6	30.7	30.7	29.1
85°	22.6	22.6	21.0	21.0	17.8	16.2	*12.9*	12.9	9.7	8.1	8.1
87.5°	3.2	3.2	1.6	1.6	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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CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4
2.5°	3876.1	3843.7	3795.2	3748.3	3704.7	3659.4	3607.6	3554.3	3509.0	3462.1	3437.8
5°	4110.5	4044.2	3918.1	3806.5	3706.3	3623.8	3534.9	3458.9	3387.7	3329.5	3300.4
7.5°	4322.4	4218.9	4028.1	3851.8	3716.0	3602.8	3479.9	3366.7	3271.3	3200.1	3172.6
10°	4518.0	4395.1	4144.5	3921.3	3762.9	3636.7	3486.4	3332.7	3206.6	3112.8	3090.2
12.5°	4676.5	4535.8	4236.7	3977.9	3790.4	3654.5	3521.9	3389.3	3264.8	3143.5	3124.1
15°	4817.2	4650.6	4306.2	4013.5	3780.7	3607.6	3496.1	3479.9	3479.9	3342.4	3303.6
17.5°	4938.5	4755.7	4362.8	4029.7	3719.2	3468.6	3400.6	3541.3	3699.8	3601.2	3513.8
20°	5077.5	4856.0	4409.7	4029.7	3606.0	3292.3	3285.8	3525.2	3759.6	3761.2	3669.1
22.5°	5218.2	4972.4	4464.7	4015.1	3450.8	3088.6	3208.2	3460.5	3669.1	3758.0	3694.9
25°	5446.2	5134.1	4552.0	4003.8	3269.7	2949.5	3138.7	3374.8	3551.0	3644.8	3604.4
27.5°	5735.7	5347.6	4684.6	4021.6	3090.2	2867.0	3064.3	3263.2	3423.3	3505.8	3476.6
30°	6059.1	5593.4	4826.9	4052.3	2960.8	2825.0	2975.4	3135.5	3277.8	3360.2	3347.3
32.5°	6471.4	5860.2	4949.8	4010.3	2888.0	2804.0	2881.6	2996.4	3133.8	3185.6	3196.9
35°	6964.6	6154.5	5043.6	3845.3	2821.7	2781.3	2779.7	2850.9	2947.9	3030.3	3038.4
37.5°	7419.0	6498.9	5147.1	3562.4	2702.1	2724.7	2660.0	2702.1	2797.5	2880.0	2912.3
40°	7868.5	6848.2	5291.0	3201.8	2545.2	2598.6	2522.6	2551.7	2627.7	2736.0	2787.8
42.5°	8305.1	7163.5	5443.0	2833.1	2388.4	2422.3	2365.7	2394.8	2474.1	2609.9	2668.1
45°	8780.6	7590.4	5561.0	2485.4	2252.5	2238.0	2192.7	2234.8	2354.4	2503.2	2572.7
47.5°	9679.6	8263.1	5638.6	2254.2	2179.8	2074.7	2022.9	2113.5	2249.3	2399.7	2483.8
50°	10777.6	9236.6	5616.0	2107.0	2116.7	1906.5	1888.7	2008.4	2153.9	2310.8	2402.9
52.5°	11647.6	10192.2	5358.9	1966.3	1993.8	1799.8	1748.0	1922.7	2061.7	2221.8	2317.2
55°	12312.2	10514.0	4569.8	1799.8	1793.3	1722.2	1613.8	1833.7	1969.6	2118.3	2221.8
57.5°	11770.5	9797.7	3387.7	1570.2	1531.3	1568.5	1463.4	1683.3	1856.4	2003.5	2095.7
60°	*9768.6*	*7811.9*	*1887.1*	*1390.7*	*1280.7*	*1371.3*	*1355.1*	*1524.9*	*1733.5*	*1888.7*	*1967.9*
62.5°	6631.5	5202.0	1119.0	1099.6	1038.1	1167.5	1253.2	1364.8	1570.2	1696.3	1770.7
65°	3305.2	2527.4	743.8	823.1	831.2	960.5	1122.2	1245.1	1416.5	1545.9	1620.3
67.5°	958.9	785.9	566.0	629.0	716.4	819.8	949.2	1094.7	1261.3	1414.9	1502.2
70°	414.0	418.8	449.5	523.9	609.6	716.4	845.7	988.0	1128.7	1246.7	1313.0
72.5°	292.7	304.0	338.0	414.0	494.8	596.7	726.1	863.5	965.4	1085.0	1154.6
75°	187.6	195.7	223.2	281.4	341.2	439.8	562.7	688.9	794.0	879.7	946.0
77.5°	103.5	105.1	127.7	161.7	202.1	265.2	355.8	454.4	532.0	580.5	640.4
80°	59.8	59.8	71.2	92.2	116.4	155.2	205.4	253.9	300.8	331.5	360.6
82.5°	32.3	32.3	37.2	50.1	63.1	85.7	114.8	139.1	168.2	184.3	203.7
85°	9.7	9.7	12.9	17.8	22.6	32.3	45.3	58.2	71.2	82.5	93.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4
2.5°	3433.0	3410.3	3397.4	3381.2	3386.1	3371.5	3363.5	3368.3	3339.2	3368.3	3397.4
5°	3289.1	3256.7	3230.9	3209.8	3200.1	3180.7	3169.4	3169.4	3151.6	3180.7	3216.3
7.5°	3162.9	3137.1	3124.1	3111.2	3096.6	3078.9	3059.5	3053.0	3041.7	3072.4	3103.1
10°	3078.9	3082.1	3090.2	3108.0	3104.7	3093.4	3064.3	3048.1	3048.1	3083.7	3130.6
12.5°	3117.7	3151.6	3171.0	3203.4	3209.8	3200.1	3171.0	3158.1	3190.4	3243.8	3321.4
15°	3268.0	3290.7	3306.9	3332.7	3331.1	3323.0	3300.4	3310.1	3416.8	3520.3	3589.8
17.5°	3431.4	3405.5	3402.3	3418.4	3423.3	3413.6	3400.6	3444.3	3620.6	3717.6	3753.2
20°	3549.4	3460.5	3441.1	3447.5	3460.5	3455.6	3455.6	3526.8	3709.5	3754.8	3709.5
22.5°	3585.0	3458.9	3429.8	3431.4	3449.2	3450.8	3458.9	3533.2	3640.0	3641.6	3572.1
25°	3528.4	3407.1	3386.1	3389.3	3410.3	3408.7	3412.0	3454.0	3500.9	3481.5	3429.8
27.5°	3421.7	3316.6	3310.1	3327.9	3355.4	3340.8	3331.1	3342.4	3365.1	3340.8	3295.5
30°	3300.4	3211.5	3214.7	3248.6	3277.8	3253.5	3229.2	3235.7	3237.3	3211.5	3159.7
32.5°	3172.6	3106.3	3117.7	3153.2	3187.2	3161.3	3135.5	3132.2	3101.5	3070.8	3020.6
35°	3044.9	3019.0	3033.6	3062.7	3091.8	3070.8	3054.6	3044.9	2978.6	2933.3	2891.3
37.5°	2928.5	2947.9	2973.7	2991.5	3001.2	2999.6	2989.9	2967.3	2880.0	2826.6	2771.6
40°	2825.0	2884.8	2912.3	2920.4	2934.9	2931.7	2930.1	2897.7	2782.9	2726.3	2663.3
42.5°	2731.2	2815.3	2862.2	2870.3	2878.3	2880.0	2875.1	2828.2	2697.2	2630.9	2571.1
45°	2640.6	2750.6	2810.4	2802.3	2813.7	2813.7	2818.5	2757.1	2613.1	2545.2	2482.2
47.5°	2561.4	2690.8	2745.7	2736.0	2742.5	2747.4	2752.2	2681.1	2521.0	2456.3	2391.6
50°	2488.6	2626.1	2673.0	2676.2	2676.2	2687.5	2685.9	2616.4	2443.4	2373.8	2309.1
52.5°	2411.0	2559.8	2609.9	2630.9	2637.4	2642.3	2619.6	2538.8	2364.1	2280.0	2220.2
55°	2320.5	2491.9	2537.1	2564.6	2577.6	2574.3	2543.6	2461.1	2283.3	2199.2	2131.3
57.5°	2183.0	2346.3	2411.0	2424.0	2445.0	2432.0	2396.5	2326.9	2153.9	2069.8	2000.3
60°	*2032.6*	*2150.7*	*2202.4*	*2213.7*	*2197.6*	*2202.4*	*2197.6*	*2131.3*	*1980.9*	*1914.6*	*1843.4*
62.5°	1835.3	1940.5	1995.4	2010.0	1982.5	2000.3	1993.8	1911.3	1761.0	1691.4	1628.4
65°	1686.6	1801.4	1866.1	1874.2	1866.1	1874.2	1851.5	1751.3	1609.0	1537.8	1473.1
67.5°	1570.2	1688.2	1756.1	1778.8	1770.7	1769.0	1733.5	1617.0	1469.9	1392.3	1309.8
70°	1369.6	1473.1	1560.4	1615.4	1615.4	1584.7	1516.8	1408.4	1290.4	1224.1	1159.4
72.5°	1212.8	1343.8	1429.5	1486.1	1497.4	1479.6	1384.2	1269.4	1133.5	1067.3	999.3
75°	999.3	1127.1	1219.3	1293.6	1308.2	1288.8	1178.8	1065.6	939.5	874.8	806.9
77.5°	667.8	743.8	818.2	886.1	871.6	884.5	810.1	724.4	646.8	598.3	567.6
80°	376.8	426.9	449.5	486.7	486.7	486.7	438.2	397.8	354.1	326.6	295.9
82.5°	213.5	245.8	255.5	286.2	294.3	295.9	263.6	237.7	210.2	195.7	174.6
85°	98.6	116.4	118.0	135.8	142.3	155.2	140.7	122.9	106.7	100.3	87.3
87.5°	3.2	9.7	12.9	24.3	32.3	37.2	40.4	40.4	34.0	30.7	25.9
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: P642444
CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4	3625.4
2.5°	3433.0	3471.8	3517.1	3549.4	3607.6	3656.1	3706.3	3761.2	3801.7	3792.0
5°	3260.0	3324.6	3407.1	3483.1	3591.5	3701.4	3822.7	3947.2	4020.0	4016.7
7.5°	3162.9	3255.1	3355.4	3457.2	3585.0	3743.5	3929.4	4123.5	4222.1	4227.0
10°	3214.7	3313.3	3381.2	3466.9	3601.2	3800.1	4023.2	4256.1	4369.3	4391.9
12.5°	3378.0	3369.9	3365.1	3426.5	3588.2	3840.5	4113.8	4391.9	4519.6	4547.1
15°	3533.2	3366.7	3266.4	3308.5	3530.0	3866.4	4202.7	4540.7	4684.6	4713.7
17.5°	3562.4	3310.1	3124.1	3153.2	3437.8	3874.4	4288.4	4686.2	4841.4	4868.9
20°	3481.5	3237.3	3020.6	2980.2	3321.4	3853.4	4341.8	4807.5	4977.3	5006.4
22.5°	3379.6	3172.6	2943.0	2837.9	3179.1	3832.4	4401.6	4935.2	5130.9	5156.8
25°	3272.9	3090.2	2870.3	2710.2	3017.4	3819.5	4501.9	5103.4	5339.5	5370.2
27.5°	3159.7	2989.9	2807.2	2648.7	2868.6	3835.6	4644.2	5375.1	5643.5	5687.1
30°	3038.4	2889.7	2766.8	2627.7	2766.8	3850.2	4801.0	5653.2	5968.5	6030.0
32.5°	2912.3	2797.5	2724.7	2637.4	2703.7	3816.2	4938.5	5965.3	6356.6	6410.0
35°	2786.2	2703.7	2671.4	2655.2	2619.6	3691.7	5050.0	6280.6	6799.7	6846.6
37.5°	2668.1	2606.7	2597.0	2614.8	2490.3	3488.0	5179.4	6681.6	7234.7	7305.8
40°	2558.2	2501.6	2500.0	2496.7	2348.0	3209.8	5354.0	7089.1	7663.2	7695.5
42.5°	2456.3	2385.1	2398.1	2359.3	2231.5	2909.1	5519.0	7436.8	8062.6	8085.2
45°	2365.7	2271.9	2286.5	2238.0	2176.5	2593.7	5664.5	7847.5	8568.7	8583.3
47.5°	2278.4	2178.2	2137.7	2134.5	2166.8	2302.7	5806.8	8638.3	9361.1	9387.0
50°	2197.6	2089.2	1974.4	2045.6	2107.0	2084.4	5984.7	9485.6	10179.3	10172.8
52.5°	2119.9	1977.6	1814.3	1951.8	1951.8	1922.7	5934.6	9999.8	10855.2	10966.8
55°	2031.0	1798.2	1647.8	1794.9	1723.8	1777.1	5046.8	10168.0	11280.5	11439.0
57.5°	1854.8	1576.6	1445.6	1524.9	1418.1	1647.8	3625.4	9333.6	10557.7	10839.1
60°	*1685.0*	*1413.3*	*1327.6*	*1313.0*	*1174.0*	*1343.8*	*2349.6*	*7307.4*	*8690.0*	*8832.3*
62.5°	1486.1	1272.6	1199.8	1088.3	944.4	978.3	1423.0	4809.1	5839.2	5871.5
65°	1335.7	1153.0	1013.9	881.3	772.9	709.9	840.9	2318.8	2918.8	2880.0
67.5°	1146.5	988.0	855.4	760.0	671.1	591.8	559.5	688.9	779.4	753.5
70°	1020.4	868.4	740.6	650.1	567.6	488.3	431.8	405.9	397.8	391.3
72.5°	879.7	747.1	614.5	527.2	449.5	376.8	325.0	294.3	286.2	279.7
75°	701.8	577.3	456.0	373.5	305.6	253.9	219.9	194.0	189.2	182.7
77.5°	464.1	370.3	271.7	221.5	181.1	153.6	131.0	114.8	111.6	108.3
80°	255.5	213.5	166.6	134.2	108.3	93.8	85.7	76.0	74.4	72.8
82.5°	152.0	127.7	95.4	76.0	63.1	56.6	51.7	46.9	45.3	43.7
85°	76.0	59.8	42.0	35.6	32.3	29.1	29.1	24.3	22.6	22.6
87.5°	19.4	16.2	9.7	8.1	8.1	8.1	6.5	4.9	4.9	3.2
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.

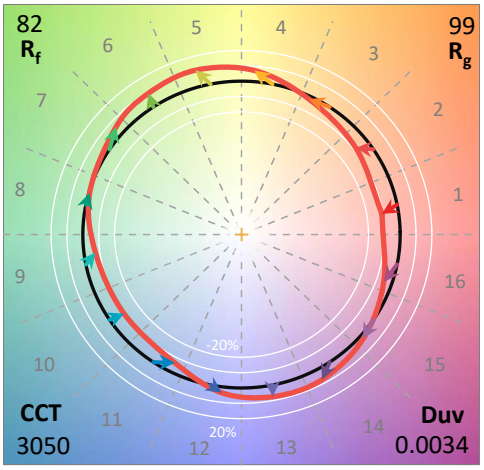
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

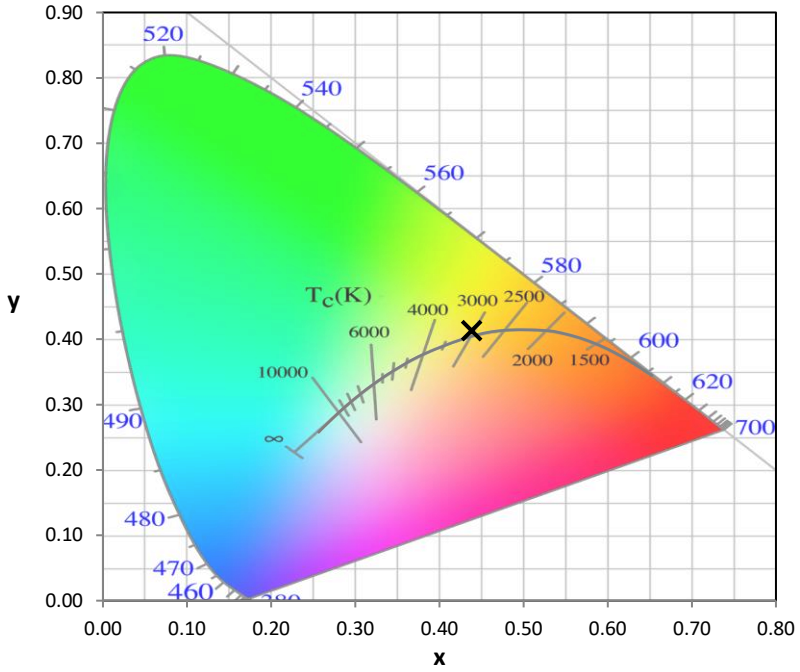
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

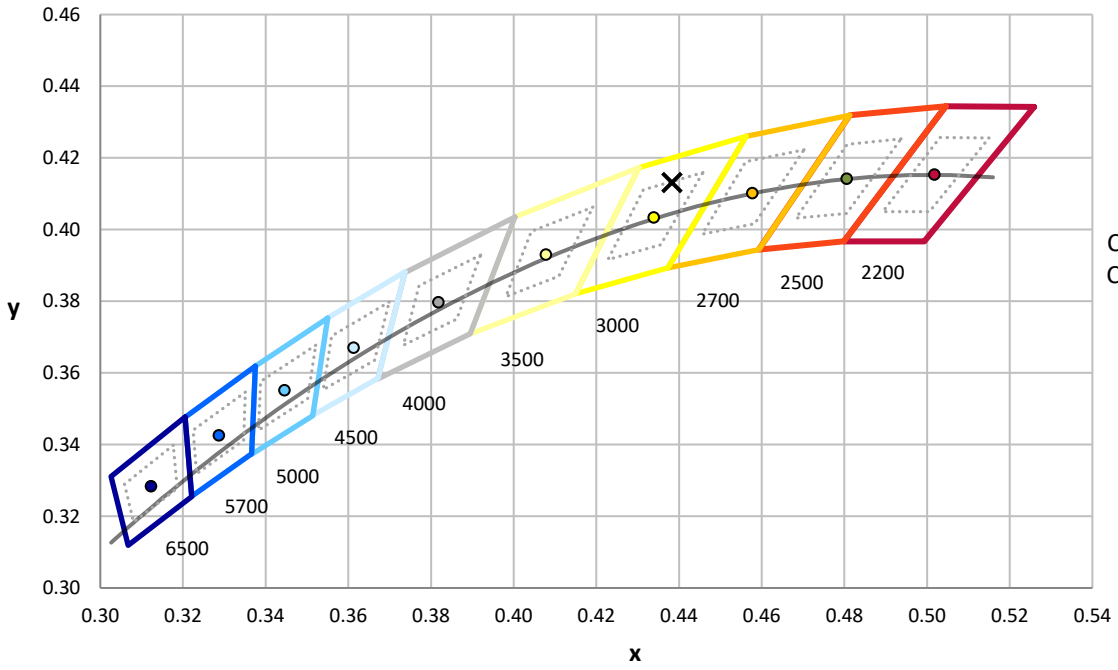
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

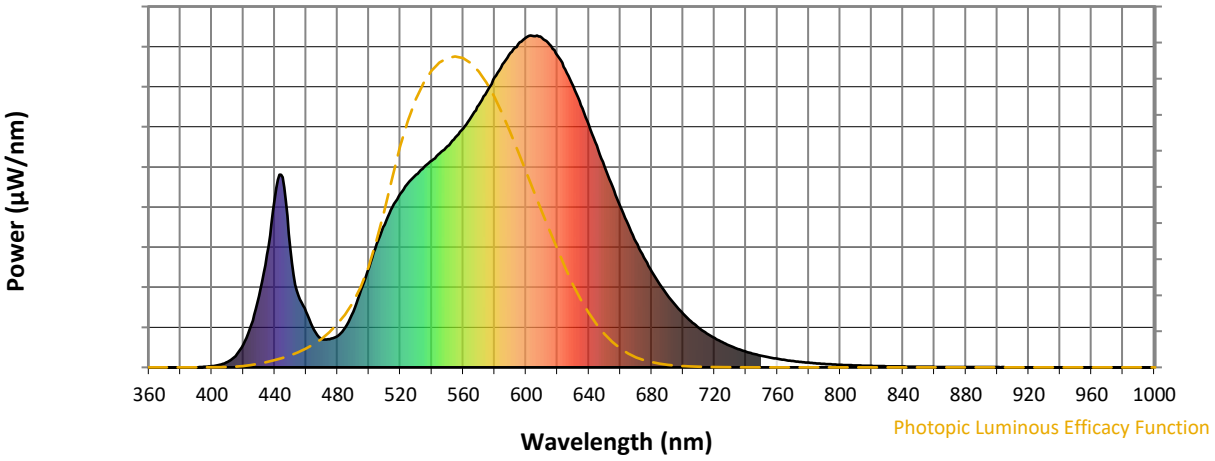


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

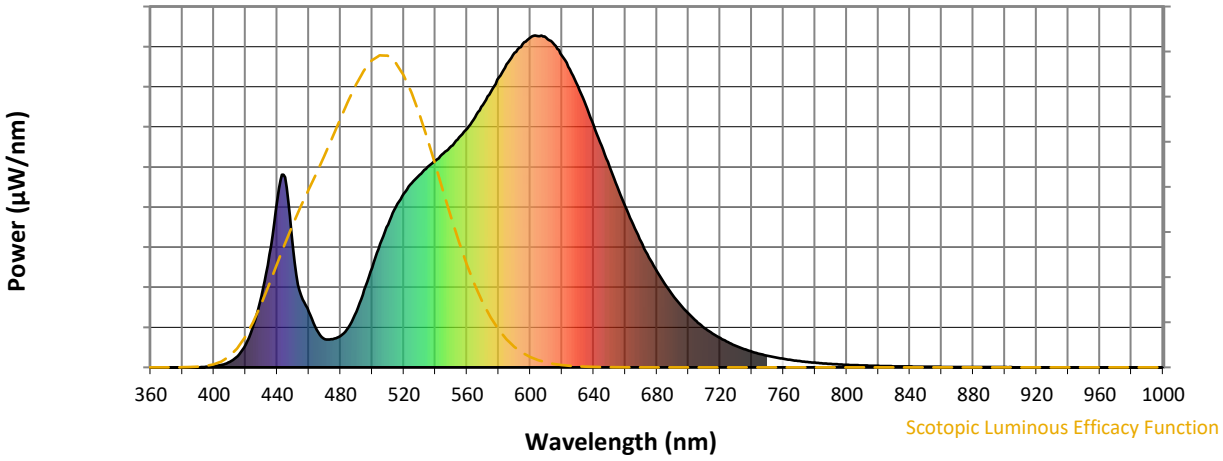


Photopic Lumens: NR

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

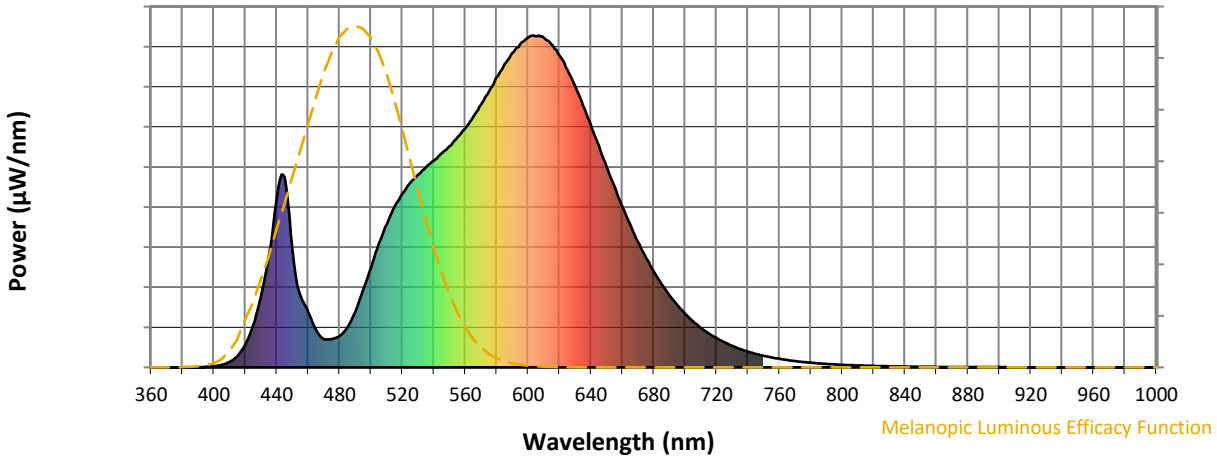


Scotopic Lumens: NR **S/P: 1.27**

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			

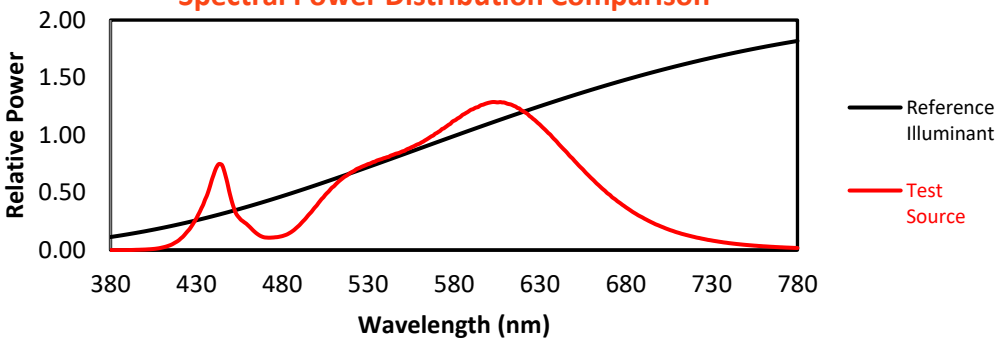
REPORT NUMBER: SP1-2408-195-9

TM-30-18

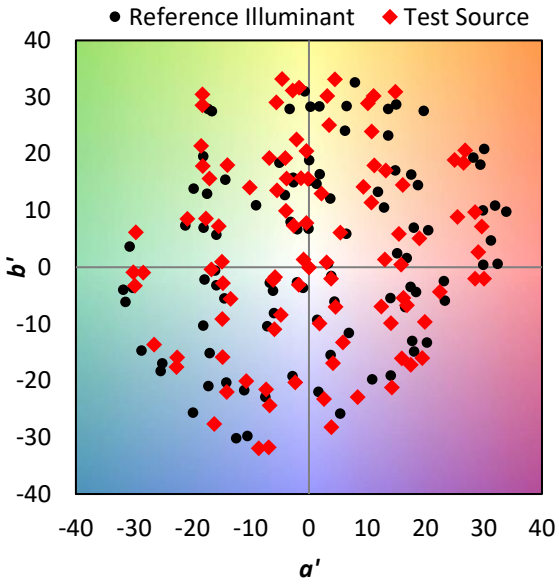
Summary

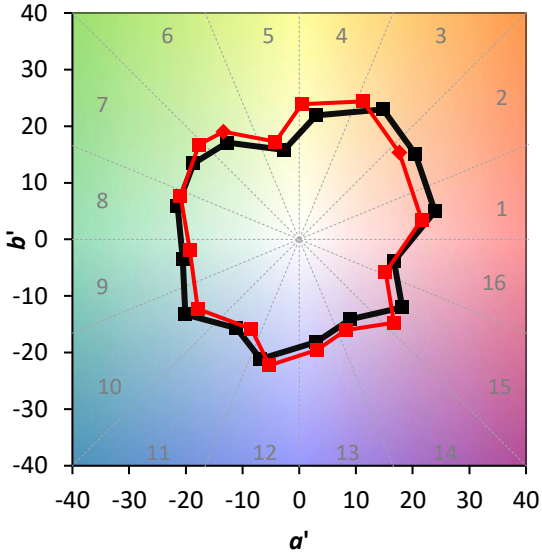
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

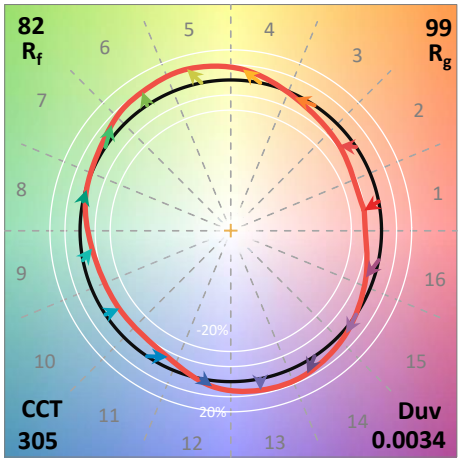
Spectral Power Distribution Comparison

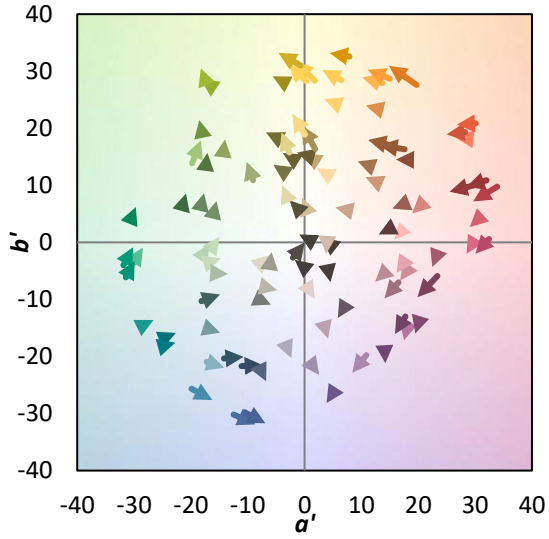


Color Vector Graphics









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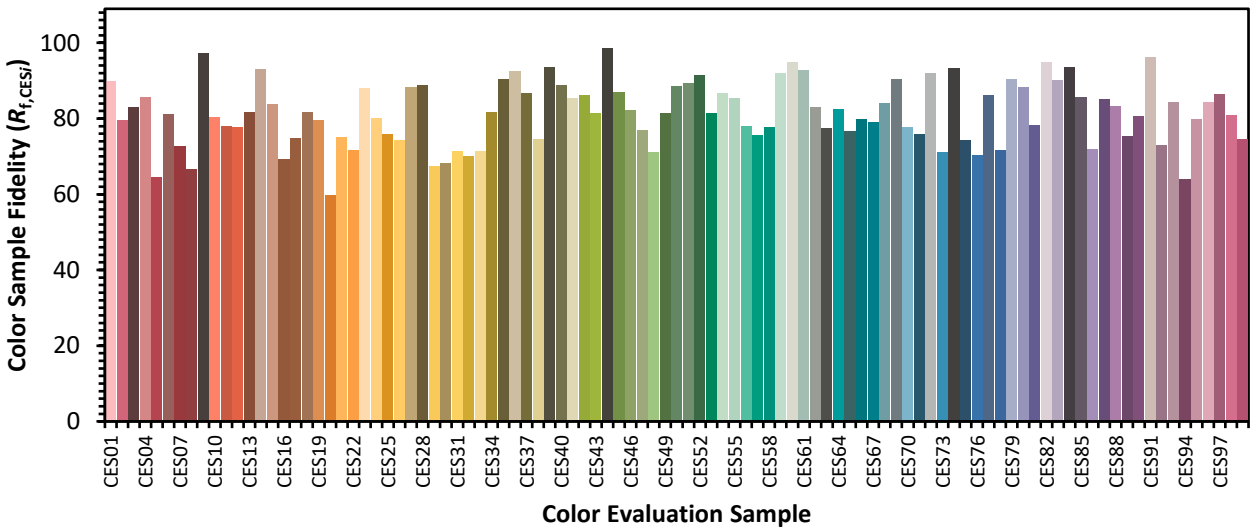
Individual Sample Fidelity Index ($R_{f,i}$)

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
CES25 = 72	CES50 = 89	CES75 = 74	



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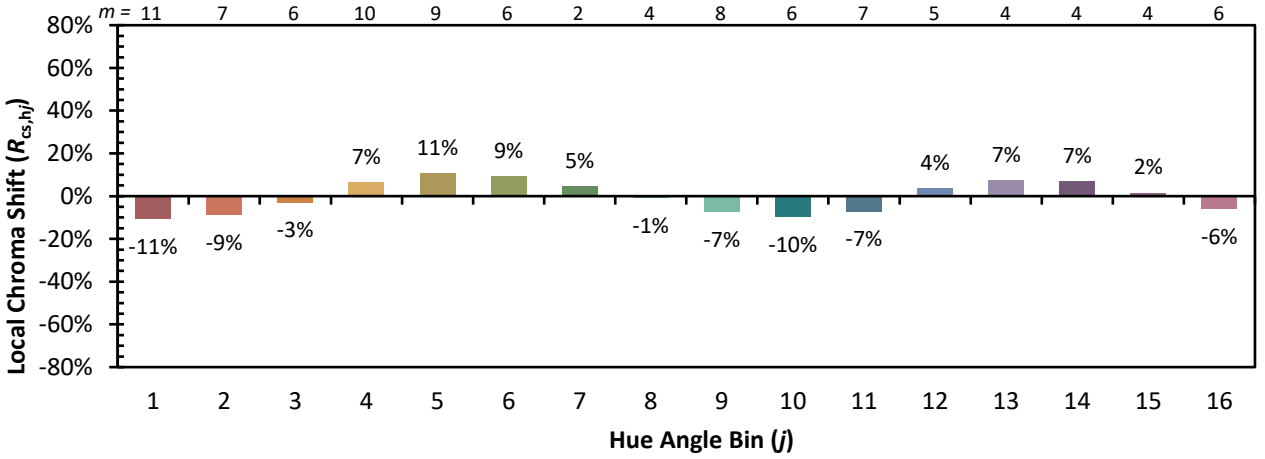
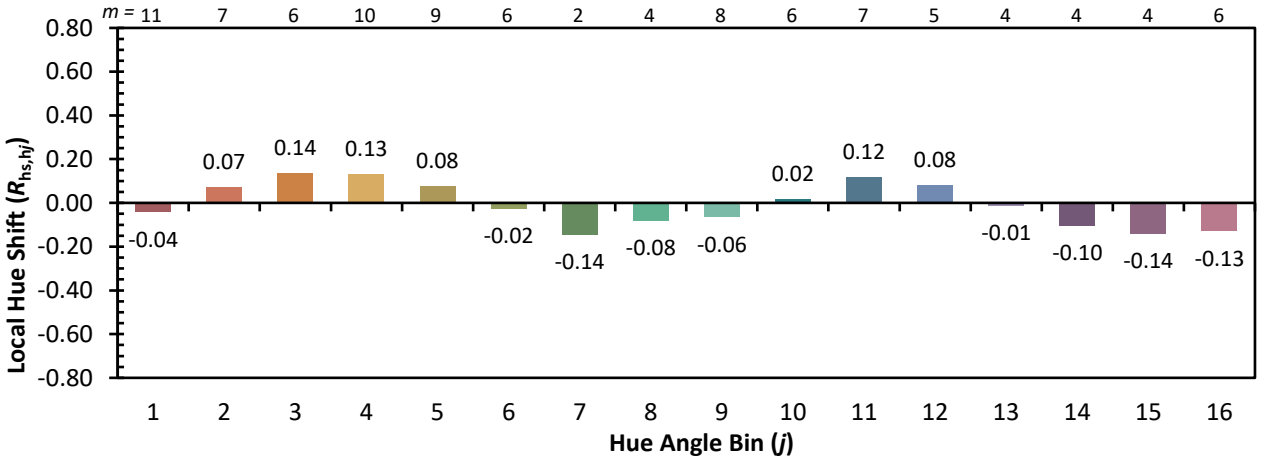
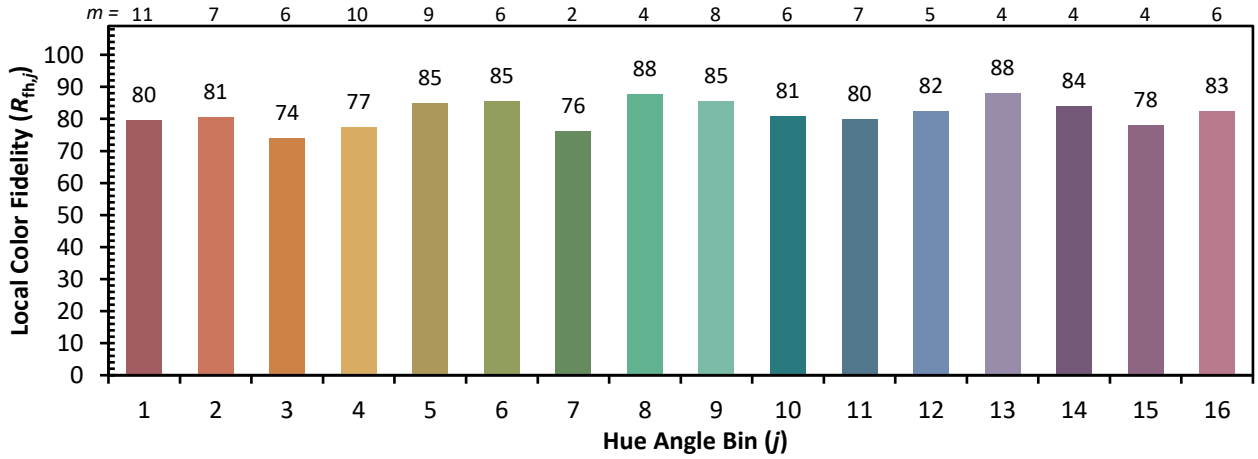
Color Rendition by Hue-Angle Bin







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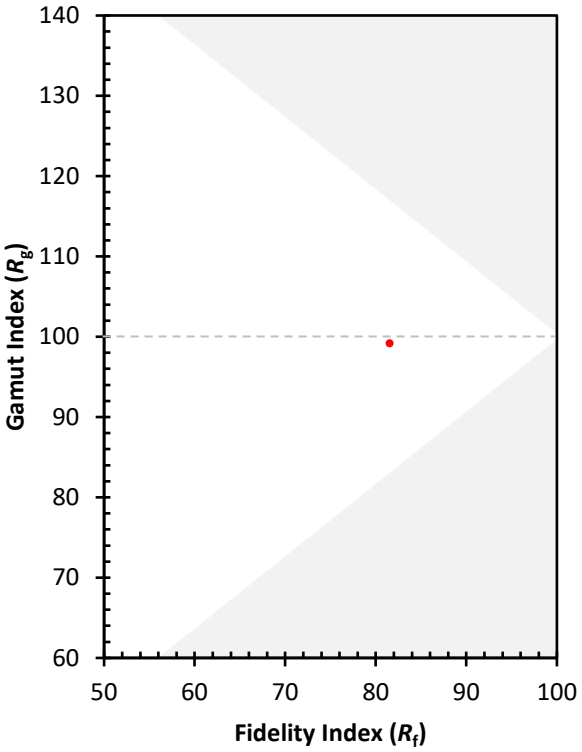
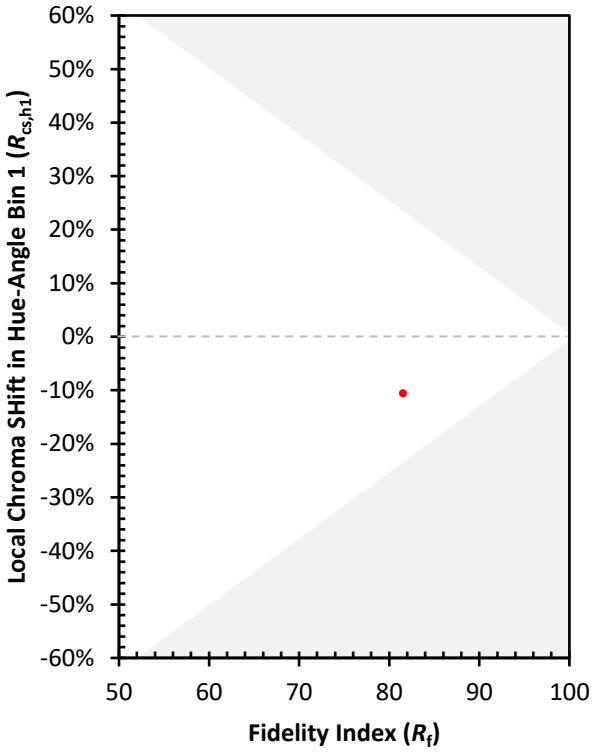
Measure Comparisons





(END OF REPORT)