Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501963

Luminaire Tested: GSS-SB4C-840-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501963
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22444.7 lumens
Efficiency:	N/A
Efficacy:	110.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

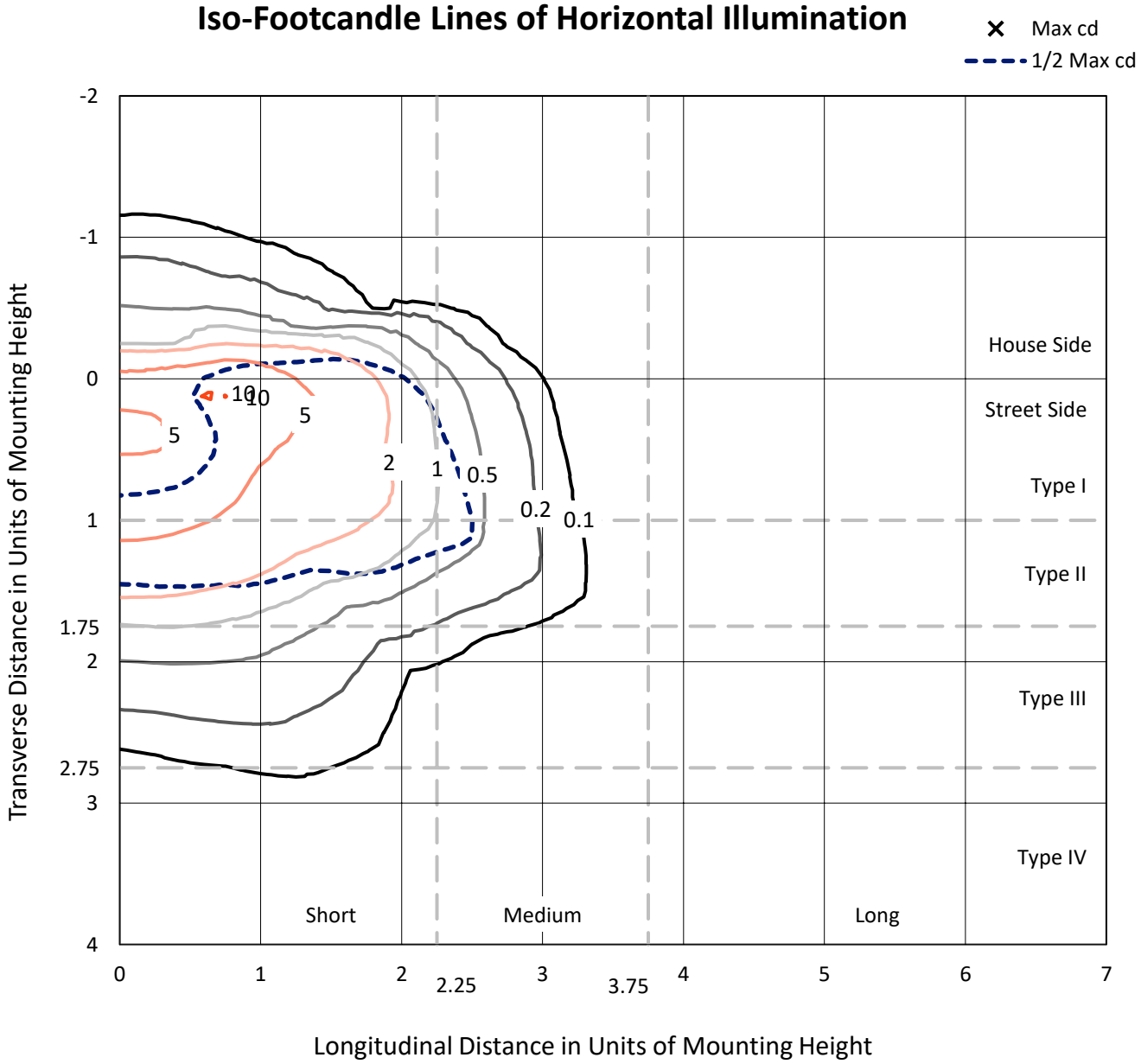
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



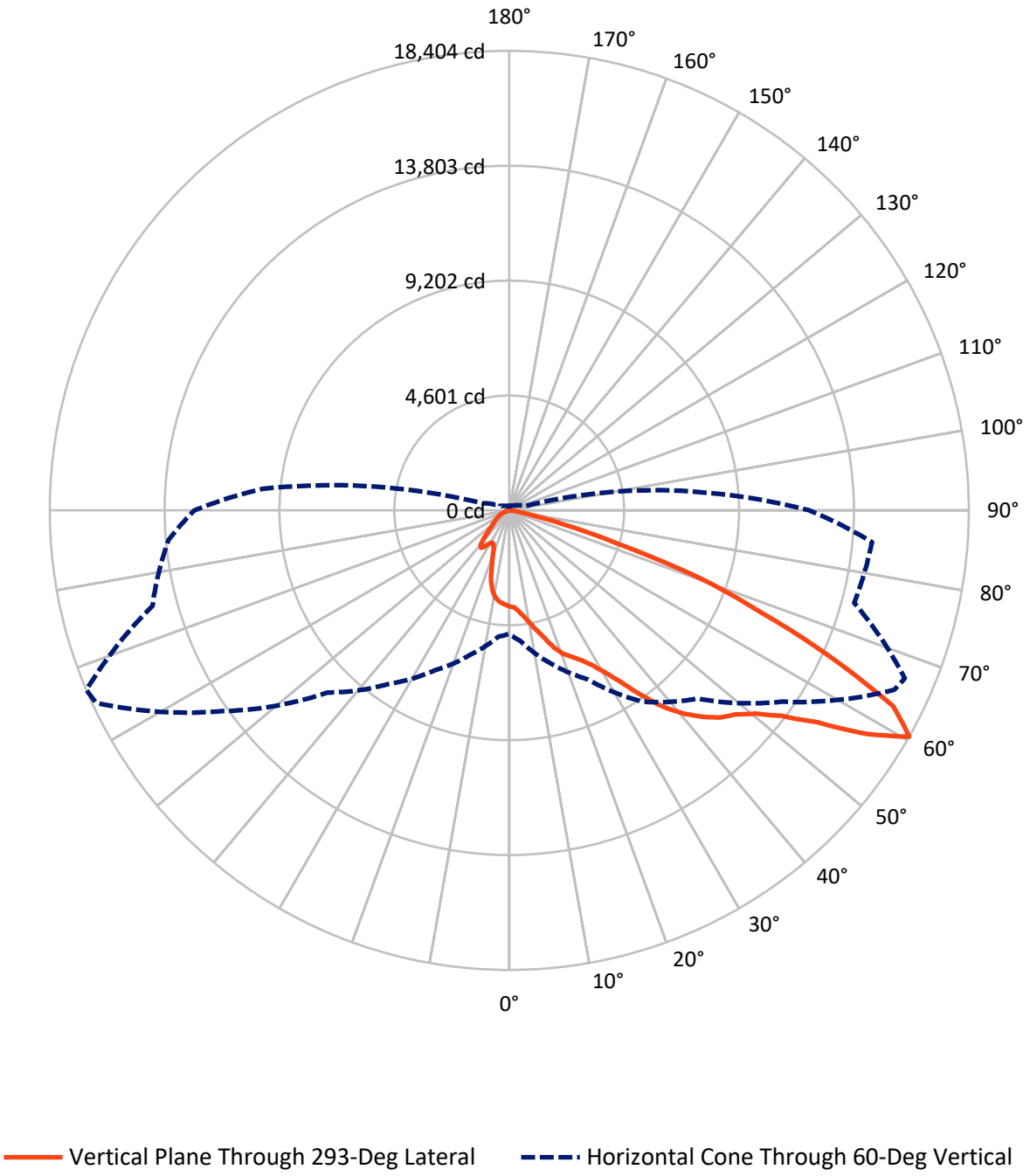
Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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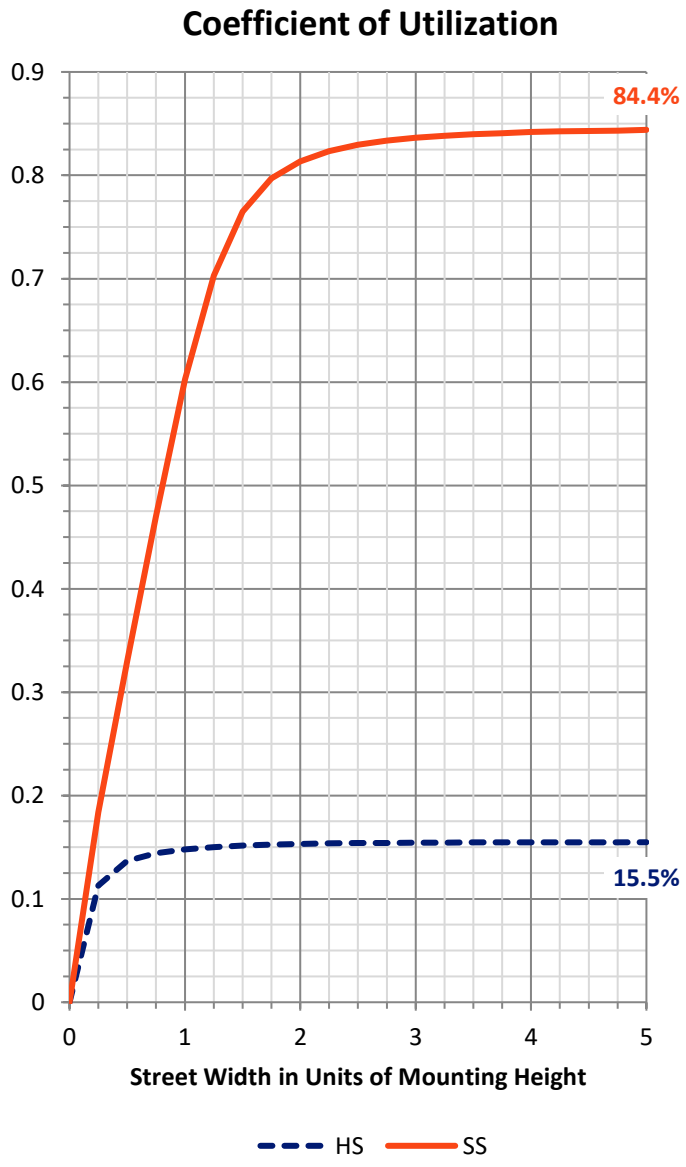
REPORT NUMBER: P1501963
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.9	0.0	3501.9
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	18942.8	0.0	18942.8
	% Fixture	84.4	0.0	84.4
Total	Lumens	22444.7	0.0	22444.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	1.6
10°-20°	877.3	3.9
20°-30°	1637.7	7.3
30°-40°	3247.7	14.5
40°-50°	5178.0	23.1
50°-60°	6186.4	27.6
60°-70°	4055.5	18.1
70°-80°	849.7	3.8
80°-90°	64.3	0.3
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°	22444.7	100.0
0°-180°	22444.7	100.0



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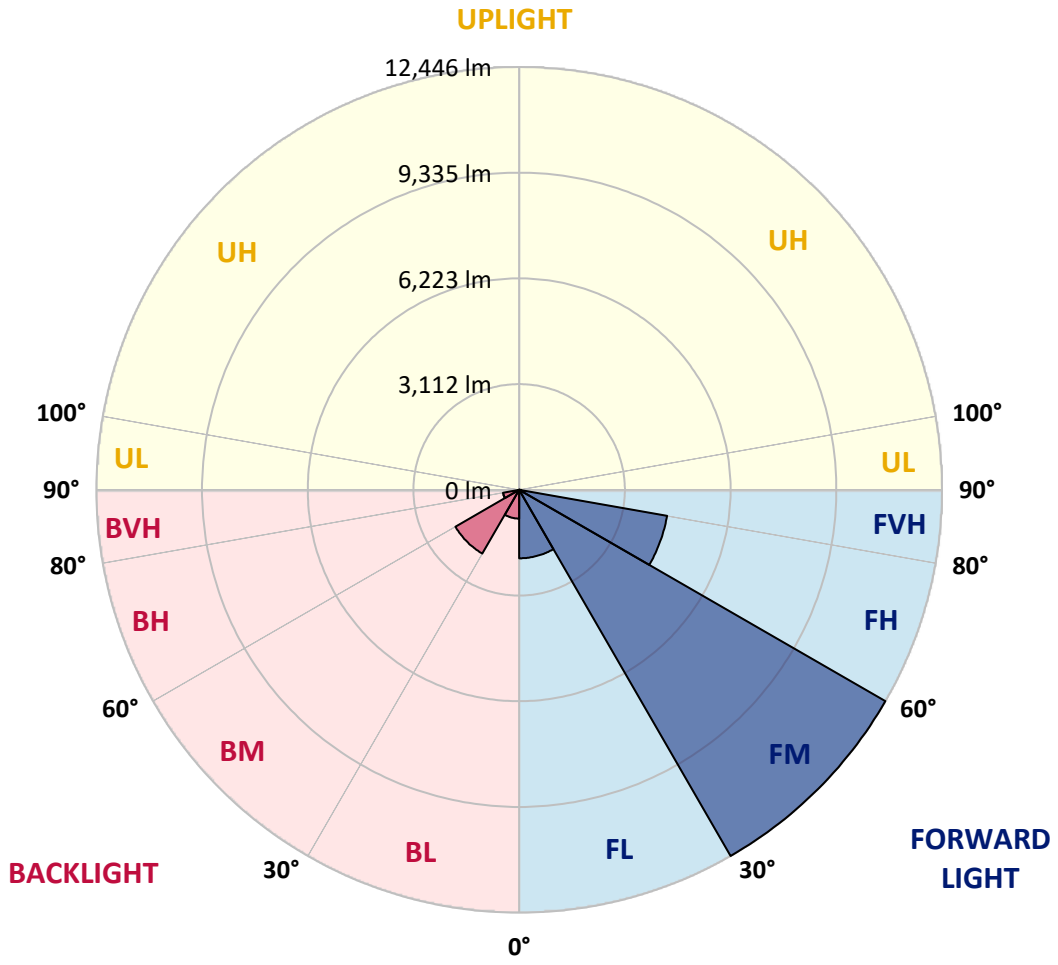
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2016.0	9.0			
FM	(30°-60°)	12446.4	55.5			
FH	(60°-80°)	4421.5	19.7			G2/5000
FVH	(80°-90°)	58.9	0.3			G1/100
BL	(0°-30°)	847.2	3.8	B2/1000		
BM	(30°-60°)	2165.6	9.6	B2/2500		
BH	(60°-80°)	483.7	2.2	B1/500		G1/500
BVH	(80°-90°)	5.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8
2.5°	4041.7	4029.1	4010.2	4016.5	4010.2	3985.1	3947.4	3915.9	3941.1	3903.4	3878.2
5°	4161.1	4161.1	4148.5	4148.5	4154.8	4142.2	4117.1	4073.1	4079.4	4047.9	3966.2
7.5°	4161.1	4142.2	4173.6	4205.1	4261.6	4293.1	4305.6	4280.5	4293.1	4230.2	4123.4
10°	3915.9	3903.4	3985.1	4104.5	4267.9	4412.5	4506.8	4513.1	4531.9	4469.1	4343.4
12.5°	3394.2	3369.1	3532.5	3758.8	4091.9	4425.1	4689.1	4789.6	4833.6	4808.5	4632.5
15°	2910.2	2941.7	3054.8	3299.9	3746.2	4255.4	4789.6	5122.8	5185.6	5217.1	5009.6
17.5°	2860.0	2866.2	2904.0	3023.4	3362.8	3978.8	4802.2	5468.5	5556.5	5694.8	5411.9
20°	2998.2	2985.7	3023.4	3061.1	3224.5	3733.7	4682.8	5801.6	5971.3	6266.8	5958.8
22.5°	3255.9	3255.9	3274.8	3299.9	3381.7	3714.8	4632.5	6109.6	6398.8	7002.2	6643.9
25°	3689.7	3639.4	3651.9	3620.5	3689.7	3941.1	4745.6	6354.8	6750.8	7819.3	7461.0
27.5°	4362.2	4381.1	4267.9	4098.2	4135.9	4349.6	5022.2	6631.3	7115.3	8667.9	8290.7
30°	5292.5	5261.1	5191.9	4858.8	4707.9	4896.5	5531.3	7083.9	7605.6	9742.7	9397.0
32.5°	6021.6	6109.6	5990.2	5757.6	5525.1	5581.6	6247.9	7813.0	8202.7	10729.5	10541.0
35°	6901.6	6901.6	6926.7	6599.9	6442.8	6430.2	7146.7	8605.0	8994.7	11622.1	11754.1
37.5°	8089.6	8007.9	7869.6	7505.0	7385.6	7542.7	7989.0	9422.1	9843.3	12344.9	12696.9
40°	9089.0	9145.6	9126.7	8598.7	8366.2	8535.9	8931.9	10119.8	10446.7	12810.1	13457.5
42.5°	10069.6	10101.0	10019.3	9767.8	9428.4	9441.0	9767.8	10647.8	10981.0	13256.4	14174.1
45°	10805.0	10798.7	10742.1	10679.3	10478.1	10270.7	10327.3	11232.4	11521.5	13400.9	14563.8
47.5°	11037.5	11087.8	11138.1	11314.1	11452.4	11125.5	10836.4	11546.7	11810.7	13375.8	14708.3
50°	10823.8	10930.7	11175.8	11439.8	11911.2	11886.1	11263.8	11886.1	12143.8	13514.1	14878.1
52.5°	10346.1	10453.0	10779.8	11257.5	11967.8	12319.8	12055.8	12458.1	12759.8	13866.1	15230.0
55°	9233.6	9277.6	9950.1	10578.7	11685.0	12131.2	12904.4	13426.1	13677.5	14293.5	15695.2
57.5°	7517.6	7624.5	8284.4	9309.0	10893.0	11634.7	13388.4	15079.2	15072.9	14702.1	15795.8
60°	*4946.8*	*5261.1*	*6335.9*	*7467.3*	*9359.3*	*10660.4*	*13356.9*	*17015.2*	*17210.0*	*14299.8*	*14582.6*
62.5°	3777.7	3909.7	4519.4	5462.2	6926.7	8837.6	13149.5	17593.4	17744.3	13218.6	12766.1
65°	2841.1	3004.5	3589.1	4431.4	4890.2	5990.2	11791.8	15292.9	15500.3	11798.1	9925.0
67.5°	1741.1	1873.1	2652.5	3639.4	3702.2	3721.1	7957.6	11584.4	11659.8	9516.4	6681.6
70°	1162.8	1294.8	1835.4	2797.1	2948.0	2143.4	4368.5	8768.4	8762.1	6511.9	4060.5
72.5°	672.6	735.4	1162.8	2061.7	2319.4	1364.0	2181.1	5575.3	5330.2	3061.1	1898.3
75°	383.4	427.4	641.1	1326.3	1628.0	867.4	861.1	2985.7	2640.0	1577.7	1037.1
77.5°	232.6	251.4	352.0	867.4	980.6	584.6	477.7	1389.1	1338.8	924.0	546.8
80°	113.1	132.0	213.7	509.1	628.6	314.3	289.1	546.8	584.6	509.1	289.1
82.5°	37.7	50.3	119.4	194.9	408.6	125.7	119.4	301.7	320.6	301.7	138.3
85°	18.9	25.1	56.6	62.9	157.1	62.9	44.0	132.0	163.4	100.6	56.6
87.5°	0.0	6.3	6.3	6.3	6.3	6.3	6.3	12.6	12.6	12.6	12.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8
2.5°	3859.4	3846.8	3821.7	3777.7	3771.4	3739.9	3689.7	3658.2	3633.1	3651.9	3658.2
5°	3928.5	3897.1	3821.7	3702.2	3576.5	3450.8	3331.4	3193.1	3098.8	3086.2	3061.1
7.5°	4054.2	3991.4	3827.9	3595.4	3274.8	2973.1	2621.1	2281.7	2112.0	2086.8	2030.3
10°	4255.4	4148.5	3878.2	3406.8	2790.8	2162.3	1628.0	1263.4	1056.0	1018.3	1030.8
12.5°	4494.2	4343.4	3884.5	3086.2	2124.5	1338.8	924.0	785.7	741.7	722.8	722.8
15°	4802.2	4582.2	3878.2	2671.4	1433.1	861.1	741.7	685.1	666.3	653.7	653.7
17.5°	5191.9	4902.8	3834.2	2049.1	968.0	748.0	678.8	634.8	609.7	603.4	603.4
20°	5650.8	5261.1	3733.7	1527.4	810.8	697.7	641.1	584.6	565.7	553.1	553.1
22.5°	6235.3	5694.8	3538.8	1188.0	766.8	666.3	603.4	540.6	521.7	509.1	509.1
25°	6914.2	6247.9	3281.1	1068.6	760.6	641.1	565.7	502.8	484.0	477.7	471.4
27.5°	7718.7	6838.7	3042.2	1074.8	773.1	622.3	528.0	471.4	452.6	433.7	440.0
30°	8667.9	7448.5	2847.4	1150.3	785.7	603.4	502.8	452.6	433.7	408.6	408.6
32.5°	9604.4	8165.0	2828.5	1288.6	829.7	590.8	477.7	427.4	408.6	389.7	389.7
35°	10566.1	8818.7	2935.4	1470.8	917.7	572.0	446.3	402.3	383.4	370.9	364.6
37.5°	11483.8	9340.4	3036.0	1584.0	867.4	490.3	408.6	370.9	352.0	326.9	326.9
40°	12093.5	9623.3	3054.8	1496.0	716.6	440.0	370.9	333.1	308.0	295.4	289.1
42.5°	12539.8	9805.6	2841.1	1213.1	622.3	402.3	339.4	301.7	282.9	270.3	270.3
45°	12722.1	9742.7	2476.5	924.0	572.0	370.9	308.0	276.6	264.0	251.4	251.4
47.5°	12696.9	9453.6	2105.7	741.7	521.7	339.4	289.1	264.0	251.4	238.9	232.6
50°	12652.9	9183.3	1728.5	660.0	465.1	320.6	270.3	251.4	232.6	220.0	213.7
52.5°	12942.1	9095.3	1433.1	603.4	433.7	308.0	264.0	238.9	220.0	207.4	207.4
55°	13231.2	9133.0	1125.1	565.7	402.3	301.7	257.7	232.6	213.7	194.9	194.9
57.5°	13212.4	8969.6	854.8	528.0	377.1	295.4	251.4	226.3	194.9	182.3	182.3
60°	*12011.8*	*8001.6*	*666.3*	*484.0*	*345.7*	*276.6*	*232.6*	*213.7*	*182.3*	*163.4*	*163.4*
62.5°	10157.6	6291.9	546.8	427.4	308.0	251.4	213.7	194.9	163.4	132.0	132.0
65°	7505.0	4538.2	440.0	370.9	282.9	220.0	194.9	169.7	132.0	106.9	100.6
67.5°	5078.8	2790.8	352.0	308.0	251.4	188.6	163.4	144.6	119.4	88.0	81.7
70°	3010.8	1483.4	257.7	213.7	188.6	138.3	138.3	125.7	100.6	75.4	69.1
72.5°	1433.1	515.4	188.6	157.1	144.6	100.6	106.9	106.9	81.7	56.6	50.3
75°	729.1	251.4	125.7	113.1	94.3	75.4	88.0	81.7	56.6	37.7	37.7
77.5°	414.9	176.0	88.0	75.4	62.9	50.3	56.6	50.3	31.4	18.9	18.9
80°	232.6	125.7	56.6	50.3	37.7	31.4	31.4	25.1	18.9	6.3	6.3
82.5°	88.0	75.4	37.7	25.1	18.9	18.9	12.6	12.6	6.3	0.0	0.0
85°	37.7	18.9	18.9	12.6	12.6	6.3	6.3	6.3	0.0	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8
2.5°	3607.9	3620.5	3633.1	3683.4	3695.9	3733.7	3765.1	3802.8	3809.1	3859.4	3859.4
5°	3111.4	3105.1	3211.9	3369.1	3469.7	3607.9	3714.8	3827.9	3890.8	3972.5	4010.2
7.5°	2061.7	2218.8	2457.7	2734.2	3092.5	3425.7	3677.1	3897.1	4047.9	4142.2	4179.9
10°	1024.6	1112.6	1364.0	1816.5	2426.2	3105.1	3639.4	4047.9	4293.1	4399.9	4469.1
12.5°	722.8	741.7	785.7	1030.8	1615.4	2577.1	3519.9	4211.4	4550.8	4751.9	4839.9
15°	647.4	660.0	678.8	748.0	999.4	1923.4	3306.2	4393.6	4953.1	5185.6	5298.8
17.5°	597.1	603.4	622.3	678.8	785.7	1307.4	2960.5	4588.5	5437.1	5719.9	5933.6
20°	553.1	553.1	572.0	641.1	729.1	1005.7	2464.0	4808.5	6053.0	6461.6	6675.3
22.5°	502.8	515.4	528.0	603.4	710.3	917.7	1998.8	4978.2	6738.2	7234.7	7486.2
25°	465.1	477.7	490.3	565.7	691.4	917.7	1728.5	5085.1	7505.0	8095.9	8441.6
27.5°	433.7	446.3	465.1	540.6	672.6	955.4	1621.7	5116.5	8341.0	9107.9	9573.0
30°	408.6	421.1	440.0	521.7	685.1	999.4	1659.4	5072.5	9189.6	10151.3	10704.4
32.5°	383.4	396.0	414.9	502.8	685.1	1056.0	1785.1	4984.5	10013.0	11194.7	11873.5
35°	364.6	370.9	377.1	452.6	622.3	1049.7	1942.3	4896.5	10842.7	12225.5	13017.5
37.5°	326.9	333.1	345.7	389.7	496.6	955.4	1973.7	4789.6	11496.4	13092.9	13966.6
40°	289.1	301.7	314.3	358.3	414.9	773.1	1835.4	4563.4	11842.1	13759.2	14821.5
42.5°	264.0	270.3	282.9	326.9	383.4	616.0	1540.0	4167.4	12150.1	14211.8	15443.8
45°	245.1	251.4	264.0	295.4	358.3	534.3	1213.1	3683.4	12175.2	14356.3	15745.5
47.5°	226.3	232.6	238.9	270.3	345.7	477.7	930.3	3243.4	12169.0	14544.9	16003.2
50°	213.7	220.0	232.6	257.7	326.9	427.4	766.8	2885.1	12432.9	14953.5	16524.9
52.5°	207.4	207.4	226.3	251.4	308.0	389.7	641.1	2564.5	12571.2	15355.8	16902.0
55°	194.9	201.1	213.7	238.9	289.1	370.9	546.8	2162.3	12634.1	15556.9	16971.2
57.5°	182.3	188.6	207.4	226.3	276.6	352.0	471.4	1615.4	11735.2	14507.2	15814.6
60°	*163.4*	*176.0*	*201.1*	*220.0*	*257.7*	*320.6*	*414.9*	*1093.7*	*9899.8*	*12608.9*	*13702.6*
62.5°	132.0	157.1	182.3	194.9	232.6	270.3	352.0	729.1	7907.3	10434.1	11678.7
65°	100.6	132.0	150.9	169.7	194.9	226.3	295.4	496.6	5273.6	7021.0	8422.7
67.5°	88.0	113.1	125.7	138.3	163.4	194.9	238.9	345.7	3199.4	4217.6	5600.5
70°	69.1	94.3	106.9	100.6	125.7	150.9	169.7	232.6	1634.3	2288.0	3186.8
72.5°	50.3	75.4	81.7	81.7	75.4	106.9	125.7	163.4	710.3	1112.6	1445.7
75°	37.7	50.3	56.6	50.3	44.0	69.1	88.0	106.9	465.1	666.3	842.3
77.5°	18.9	18.9	31.4	31.4	18.9	37.7	44.0	62.9	264.0	389.7	484.0
80°	6.3	0.0	0.0	6.3	0.0	12.6	18.9	31.4	138.3	207.4	301.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	69.1	62.9	157.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	37.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1501963
CATALOG NUMBER: GSS-SB4C-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3846.8	*3846.8*	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8
2.5°	3890.8	*3890.8*	3915.9	3953.7	3972.5	3985.1	3991.4	4003.9	4054.2	4041.7
5°	4054.2	*4066.8*	4085.7	4123.4	4167.4	4154.8	4154.8	4154.8	4186.2	4161.1
7.5°	4267.9	*4305.6*	4311.9	4355.9	4324.5	4261.6	4223.9	4167.4	4161.1	4161.1
10°	4613.6	*4601.1*	4601.1	4544.5	4431.4	4249.1	4085.7	3972.5	3909.7	3915.9
12.5°	4984.5	*4934.2*	4940.5	4733.1	4412.5	4010.2	3677.1	3431.9	3413.1	3394.2
15°	5443.3	*5311.3*	5286.2	4808.5	4129.6	3513.7	3186.8	2992.0	2929.1	2910.2
17.5°	6097.0	*5763.9*	5644.5	4676.5	3758.8	3205.7	2960.5	2872.5	2866.2	2860.0
20°	6788.5	*6128.5*	5902.2	4481.6	3633.1	3211.9	3029.7	3004.5	2992.0	2998.2
22.5°	7593.0	*6361.0*	6071.9	4513.1	3746.2	3419.4	3274.8	3255.9	3243.4	3255.9
25°	8422.7	*6631.3*	6273.0	4764.5	4085.7	3802.8	3633.1	3595.4	3633.1	3689.7
27.5°	9258.7	*6995.9*	6669.0	5261.1	4632.5	4324.5	4161.1	4299.4	4355.9	4362.2
30°	10000.4	*7505.0*	7203.3	5958.8	5254.8	4946.8	4978.2	5154.2	5223.3	5292.5
32.5°	10679.3	*8183.9*	7951.3	6750.8	6059.3	5877.1	5858.2	5990.2	6065.6	6021.6
35°	11364.4	*9070.1*	8843.9	7611.9	7046.2	6895.3	6738.2	6995.9	6970.7	6901.6
37.5°	12011.8	*9962.7*	9755.3	8535.9	7951.3	7687.3	7662.2	7894.7	8102.2	8089.6
40°	12476.9	*10685.5*	10434.1	9453.6	8900.4	8674.1	8806.1	9208.4	9158.1	9089.0
42.5°	12904.4	*11301.5*	11075.3	10258.1	9679.8	9780.4	9899.8	10170.1	10138.7	10069.6
45°	13105.5	*11829.5*	11634.7	10867.8	10585.0	10905.5	10899.3	10999.8	10830.1	10805.0
47.5°	13388.4	*12206.7*	12005.5	11414.7	11666.1	11798.1	11427.2	11320.4	11163.3	11037.5
50°	13910.1	*12791.2*	12590.1	12244.4	12458.1	12049.5	11597.0	11364.4	11043.8	10823.8
52.5°	14519.8	*13677.5*	13501.5	13363.2	12766.1	11923.8	11345.5	10924.4	10534.7	10346.1
55°	15286.6	*14984.9*	14859.2	14098.6	12489.5	11408.4	10729.5	9943.8	9409.6	9233.6
57.5°	15538.0	*16902.0*	16858.0	14218.1	11716.4	10471.8	9246.1	8183.9	7630.7	7517.6
60°	*14796.3*	*18404.3*	*18247.1*	*14016.9*	*10314.7*	*8498.2*	*7065.0*	*5977.6*	*5078.8*	*4946.8*
62.5°	13847.2	*17254.0*	17197.4	13004.9	7857.0	6090.8	5279.9	4261.6	3878.2	3777.7
65°	11861.0	*14117.5*	14142.6	10434.1	4971.9	4374.8	4337.1	3387.9	2916.5	2841.1
67.5°	9133.0	*10830.1*	10654.1	6562.2	2897.7	3501.1	3463.4	2476.5	1791.4	1741.1
70°	5336.5	*8064.4*	7781.6	3413.1	1917.1	2922.8	2665.1	1741.1	1219.4	1162.8
72.5°	2357.1	*4437.6*	4764.5	1502.3	1351.4	2325.7	1923.4	1068.6	685.1	672.6
75°	1307.4	*2200.0*	2300.5	653.7	949.1	1653.1	1162.8	597.1	389.7	383.4
77.5°	785.7	*974.3*	949.1	421.1	710.3	1056.0	704.0	339.4	245.1	232.6
80°	440.0	*446.3*	377.1	308.0	421.1	590.8	396.0	213.7	113.1	113.1
82.5°	270.3	*245.1*	194.9	94.3	113.1	358.3	144.6	119.4	37.7	37.7
85°	113.1	*75.4*	50.3	18.9	44.0	94.3	50.3	56.6	18.9	18.9
87.5°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

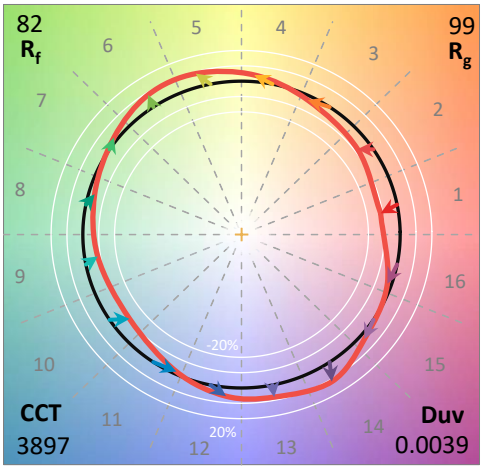
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

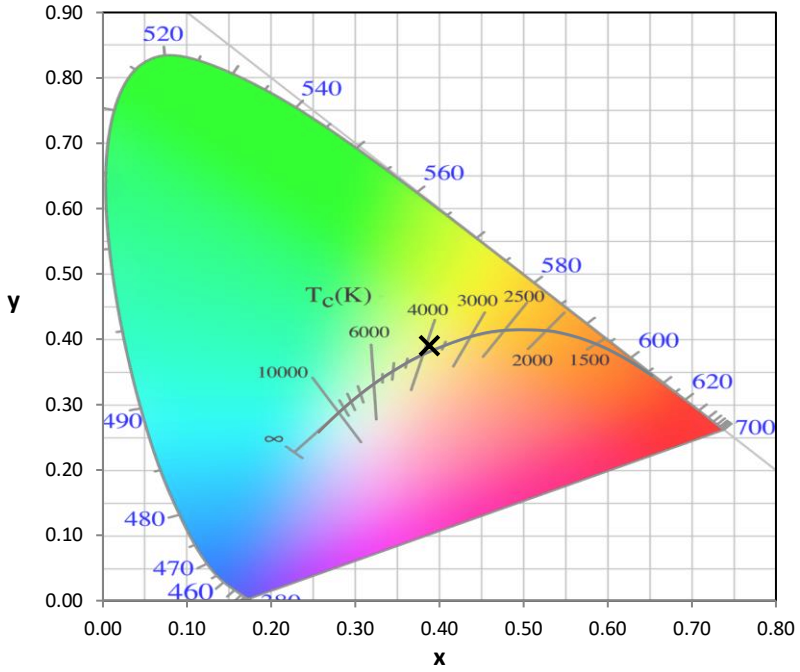
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

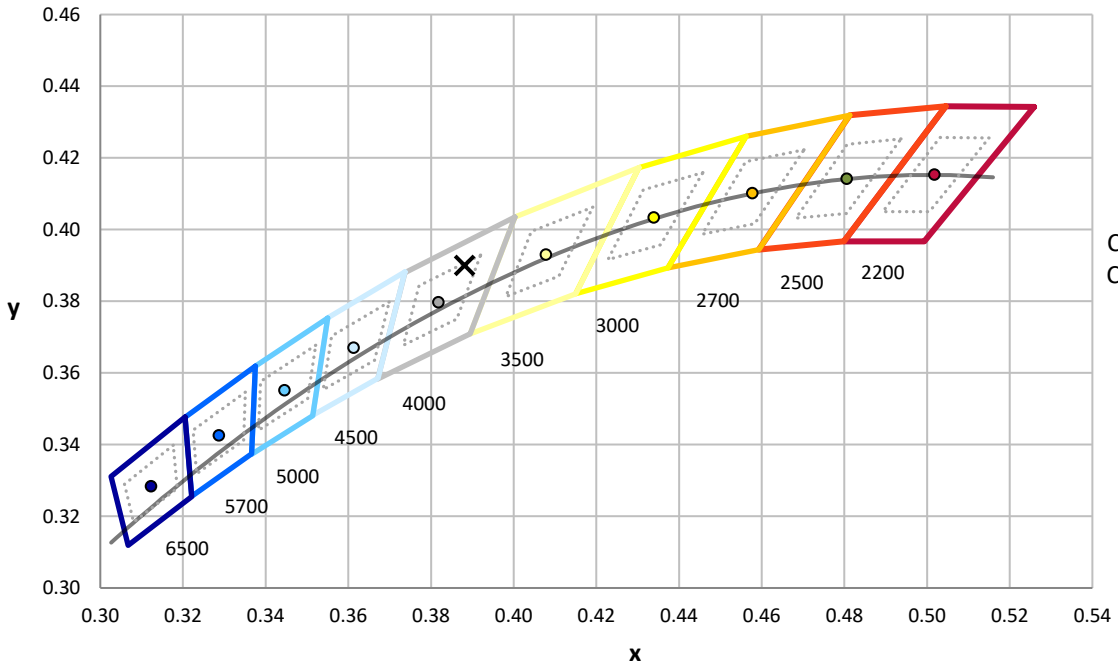
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

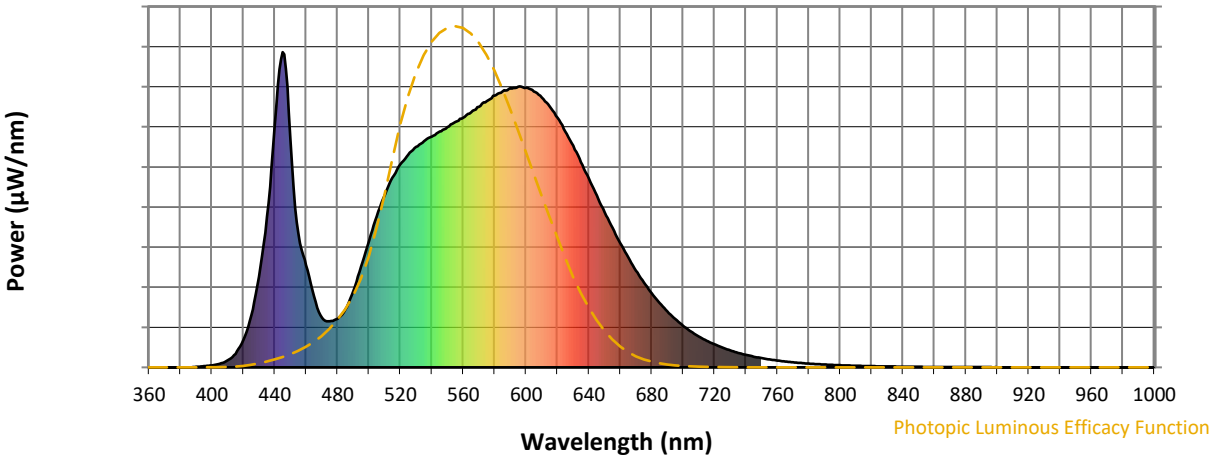


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

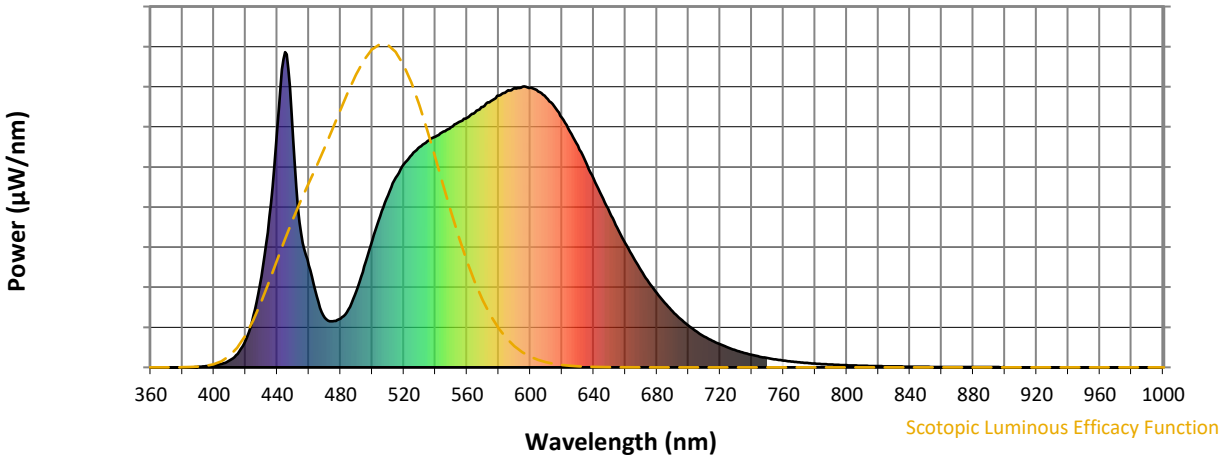


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

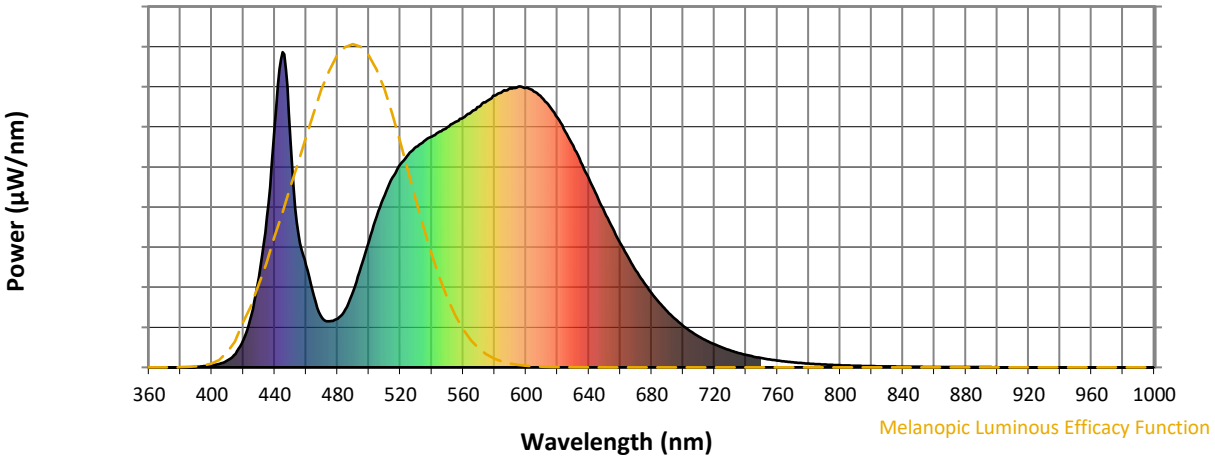


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

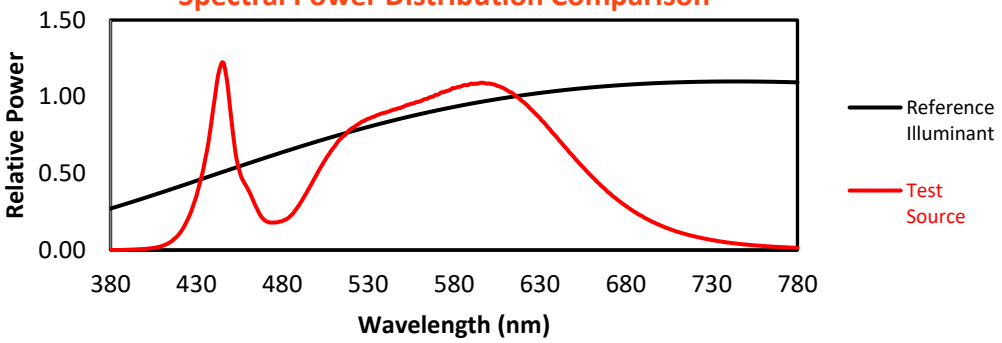
REPORT NUMBER: SP1-2407-184-11

TM-30-18

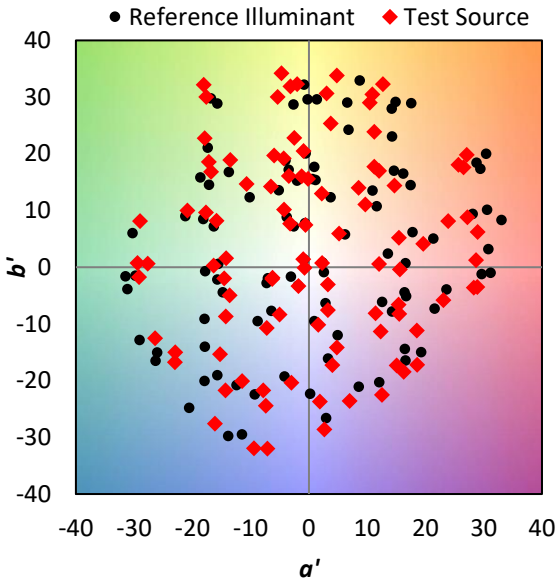
Summary

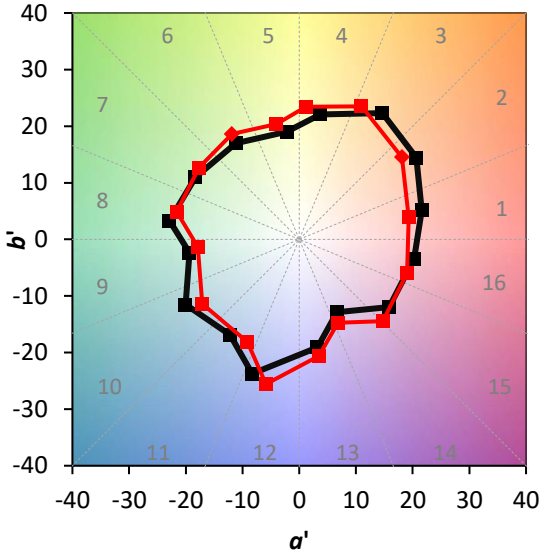
R_f = 81.8
R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

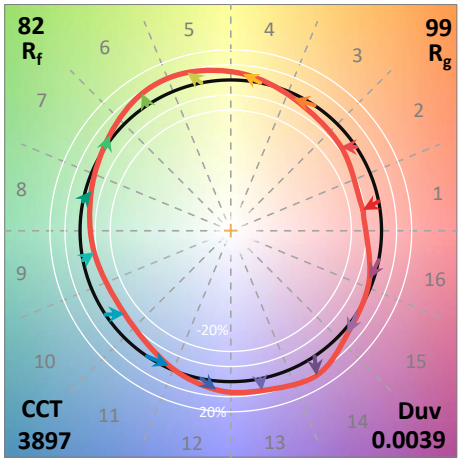
Spectral Power Distribution Comparison

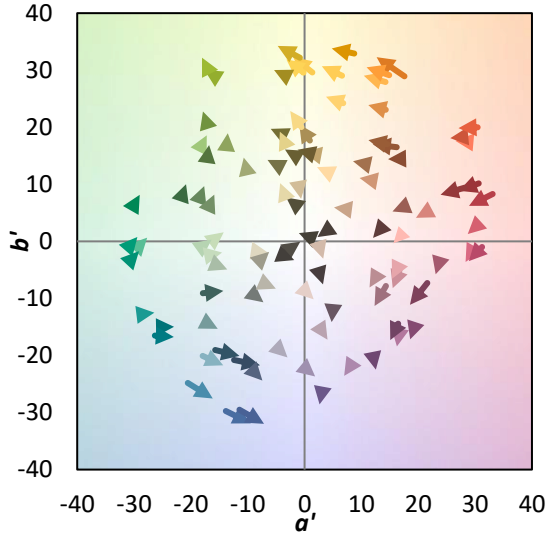


Color Vector Graphics







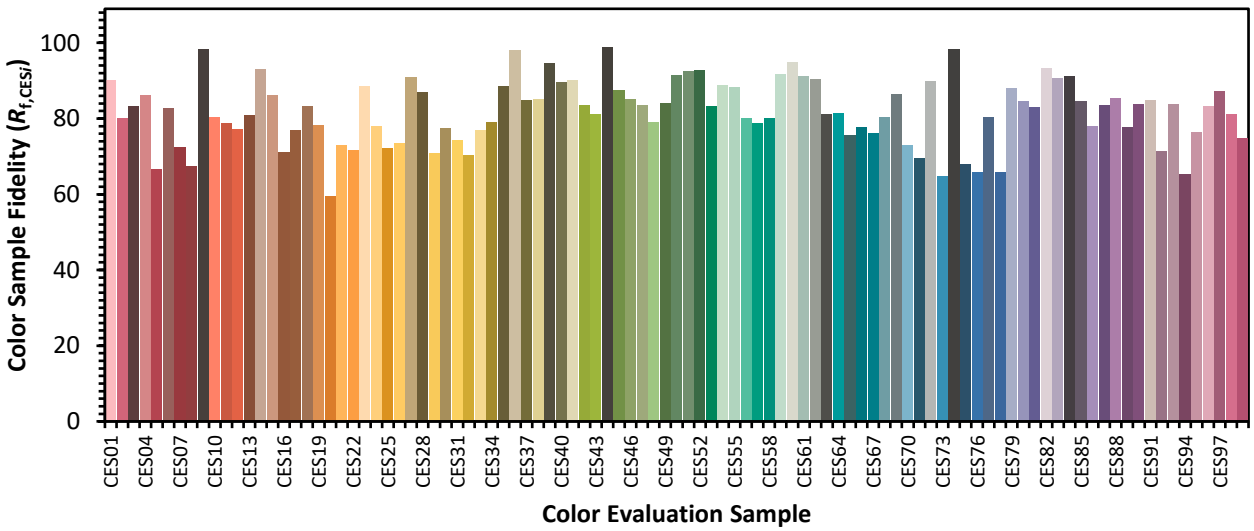


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Individual Sample Fidelity Index ($R_{f,i}$)

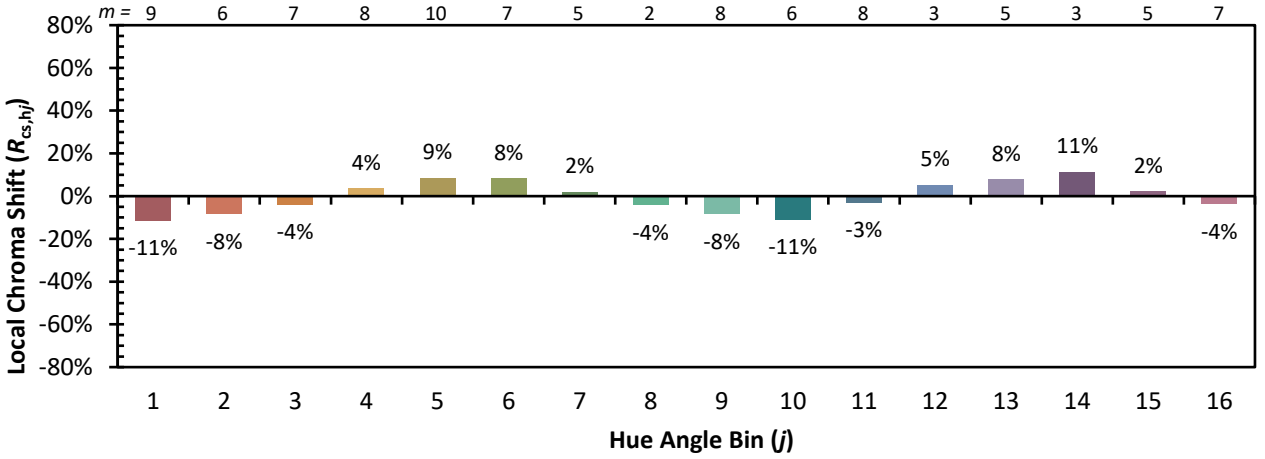
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

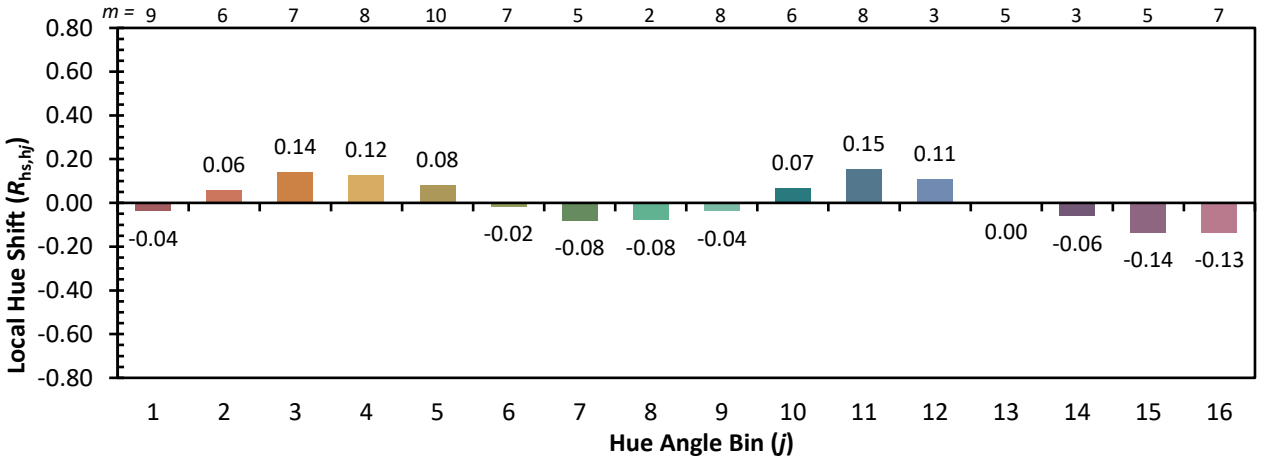


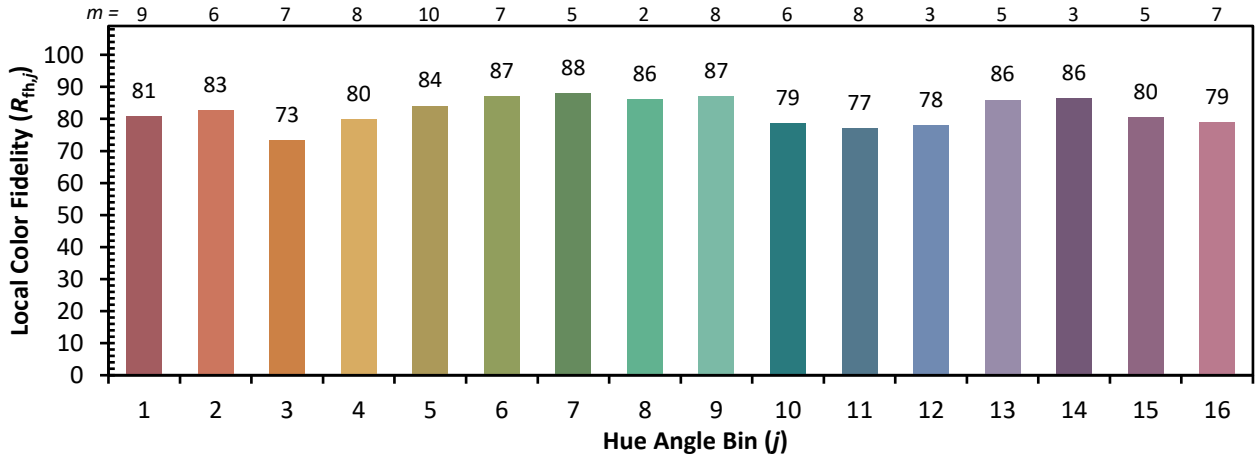
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Color Rendition by Hue-Angle Bin



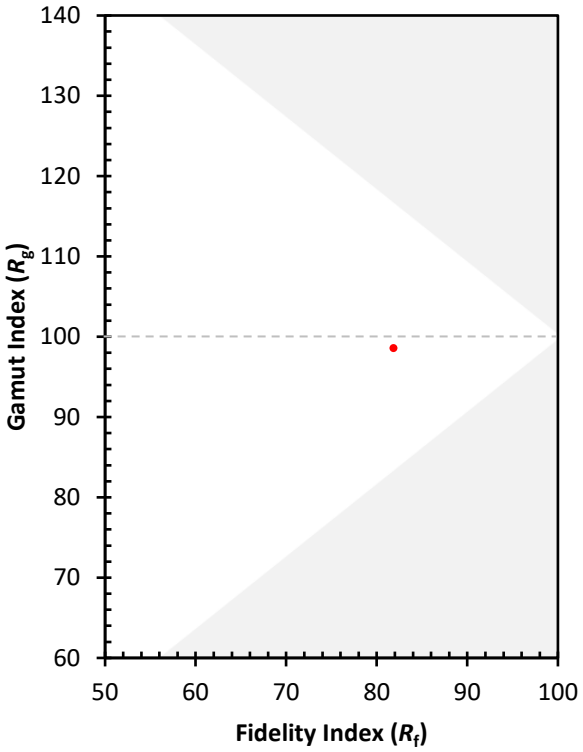


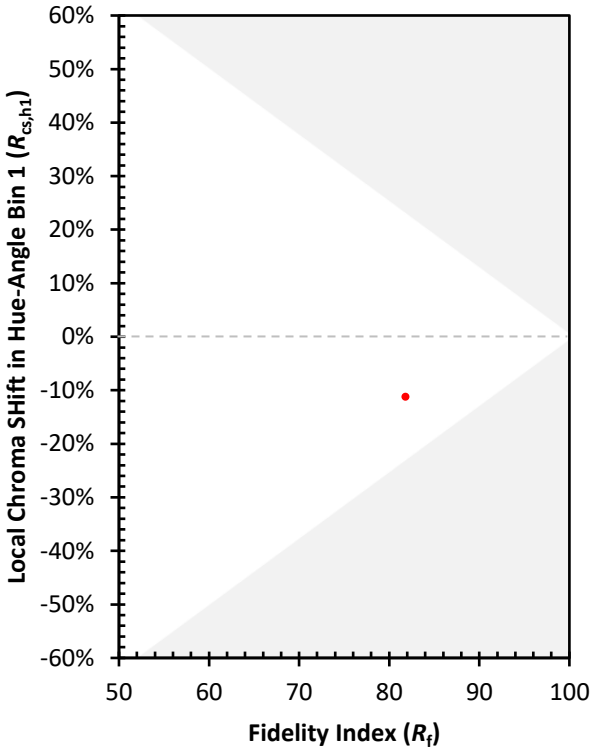


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Measure Comparisons





(END OF REPORT)