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: P1501966

Luminaire Tested: GSS-SB5B-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:	P1501966
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5B-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 184W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(130) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21263.1 lumens
Efficiency:	N/A
Efficacy:	115.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

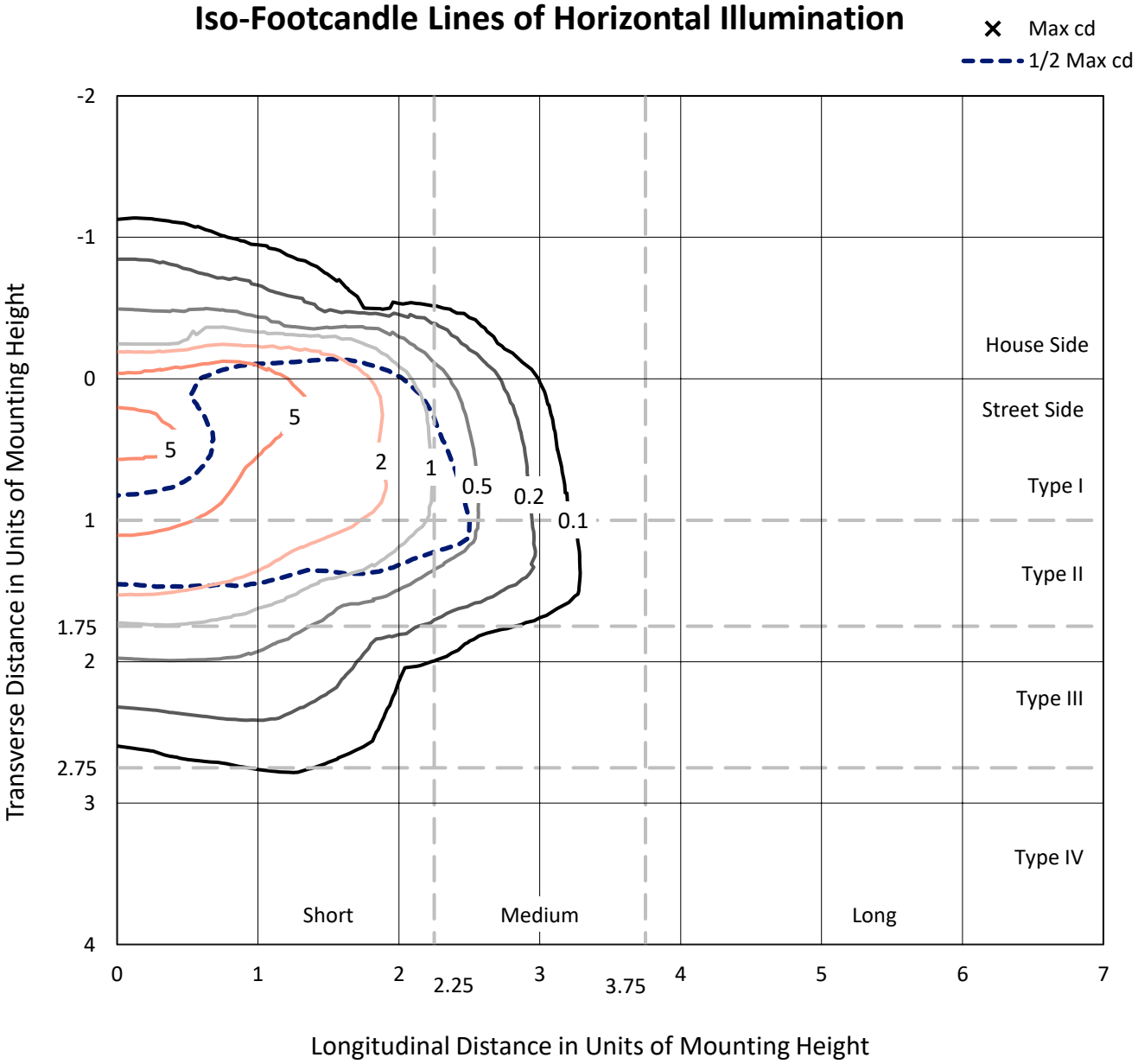
Input Watts (W):	184
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



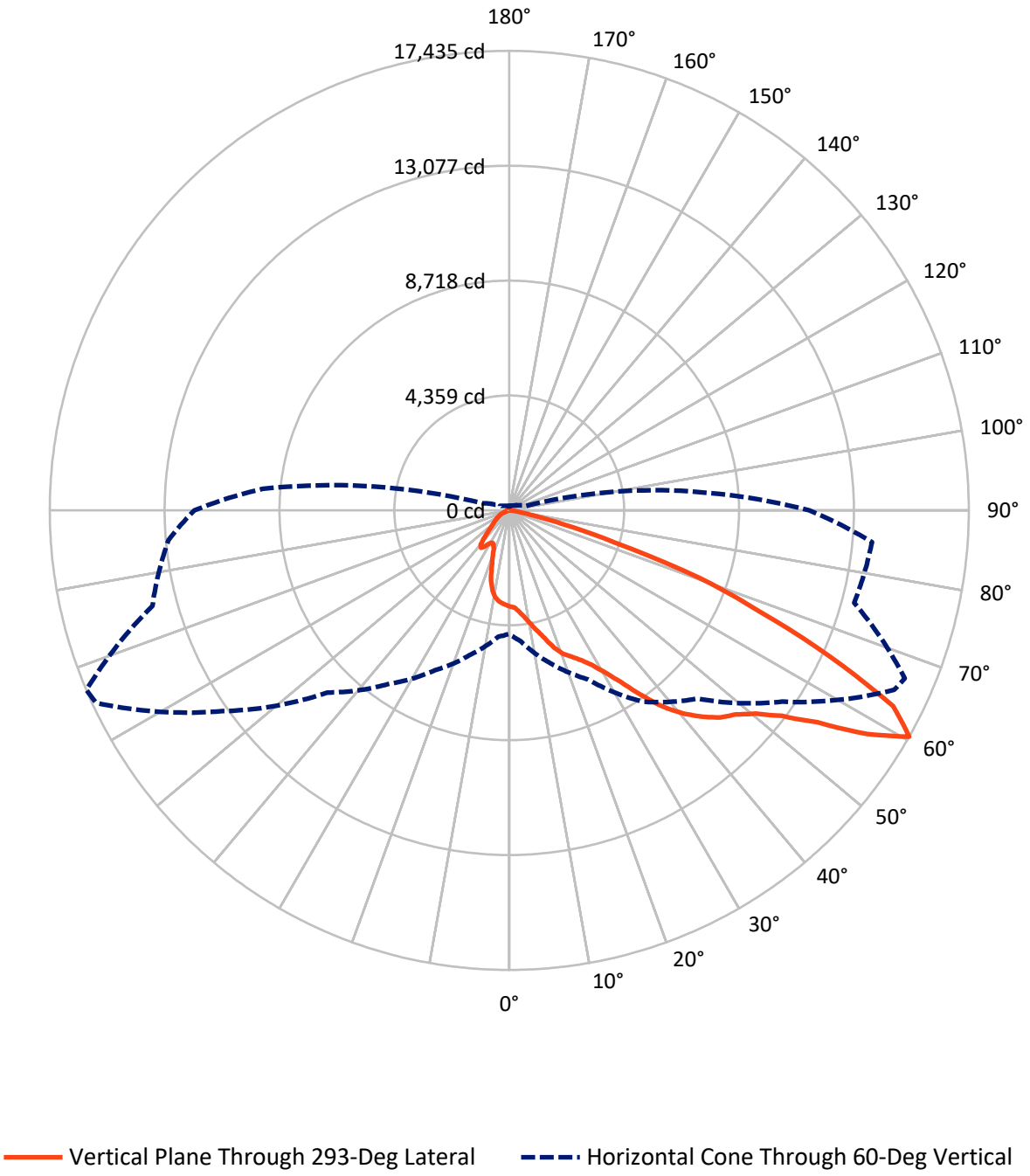
Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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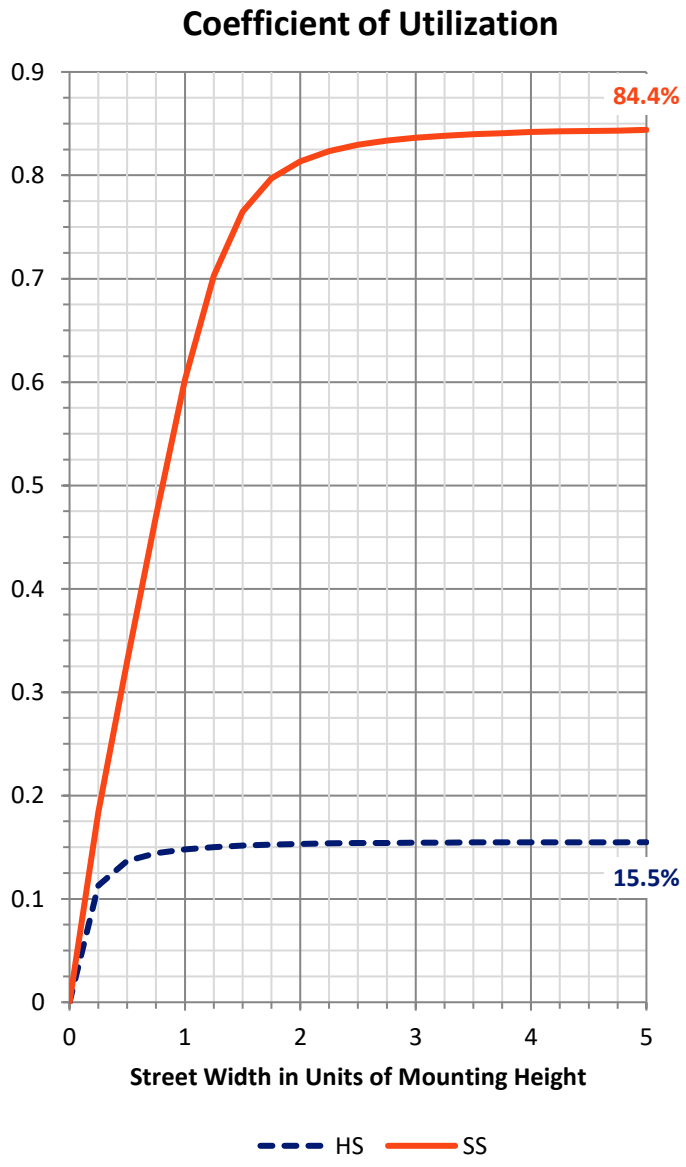
REPORT NUMBER: P1501966
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3317.6	0.0	3317.6
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	17945.5	0.0	17945.5
	% Fixture	84.4	0.0	84.4
Total	Lumens	21263.1	0.0	21263.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	1.6
10°-20°	831.1	3.9
20°-30°	1551.5	7.3
30°-40°	3076.7	14.5
40°-50°	4905.4	23.1
50°-60°	5860.7	27.6
60°-70°	3842.0	18.1
70°-80°	804.9	3.8
80°-90°	60.9	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°	21263.1	100.0
0°-180°	21263.1	100.0



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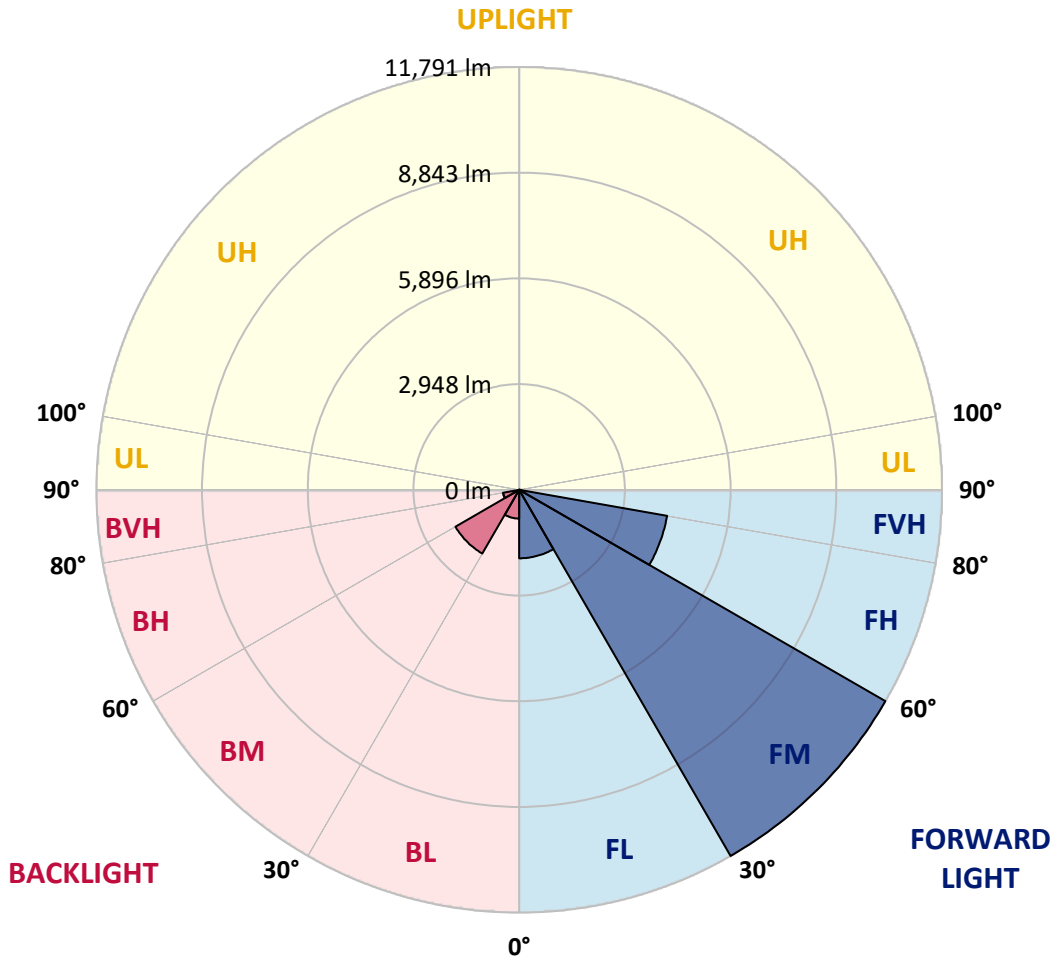
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1909.9	9.0			
FM	(30°-60°)	11791.2	55.5			
FH	(60°-80°)	4188.7	19.7			G2/5000
FVH	(80°-90°)	55.8	0.3			G1/100
BL	(0°-30°)	802.6	3.8	B2/1000		
BM	(30°-60°)	2051.6	9.6	B2/2500		
BH	(60°-80°)	458.3	2.2	B1/500		G1/500
BVH	(80°-90°)	5.1	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°	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3
2.5°	3828.9	3817.0	3799.1	3805.1	3799.1	3775.3	3739.6	3709.8	3733.6	3697.9	3674.1
5°	3942.0	3942.0	3930.1	3930.1	3936.1	3924.2	3900.3	3858.6	3864.6	3834.8	3757.4
7.5°	3942.0	3924.2	3953.9	3983.7	4037.3	4067.1	4079.0	4055.2	4067.1	4007.5	3906.3
10°	3709.8	3697.9	3775.3	3888.4	4043.2	4180.2	4269.5	4275.5	4293.3	4233.8	4114.7
12.5°	3215.5	3191.7	3346.5	3560.9	3876.5	4192.1	4442.2	4537.5	4579.2	4555.4	4388.6
15°	2757.0	2786.8	2894.0	3126.2	3549.0	4031.3	4537.5	4853.1	4912.6	4942.4	4745.9
17.5°	2709.4	2715.3	2751.1	2864.2	3185.8	3769.3	4549.4	5180.6	5264.0	5395.0	5127.0
20°	2840.4	2828.5	2864.2	2899.9	3054.8	3537.1	4436.3	5496.2	5657.0	5936.8	5645.1
22.5°	3084.5	3084.5	3102.4	3126.2	3203.6	3519.2	4388.6	5788.0	6061.9	6633.5	6294.1
25°	3495.4	3447.8	3459.7	3429.9	3495.4	3733.6	4495.8	6020.2	6395.4	7407.7	7068.2
27.5°	4132.6	4150.4	4043.2	3882.5	3918.2	4120.7	4757.8	6282.2	6740.7	8211.5	7854.3
30°	5013.9	4984.1	4918.6	4603.0	4460.1	4638.7	5240.1	6711.0	7205.2	9229.8	8902.3
32.5°	5704.6	5788.0	5674.8	5454.5	5234.2	5287.8	5919.0	7401.7	7770.9	10164.7	9986.0
35°	6538.3	6538.3	6562.1	6252.4	6103.6	6091.7	6770.5	8152.0	8521.2	11010.3	11135.3
37.5°	7663.7	7586.3	7455.3	7109.9	6996.8	7145.6	7568.4	8926.1	9325.1	11695.0	12028.5
40°	8610.5	8664.1	8646.2	8146.0	7925.7	8086.5	8461.6	9587.1	9896.7	12135.7	12749.0
42.5°	9539.4	9569.2	9491.8	9253.6	8932.1	8944.0	9253.6	10087.3	10402.9	12558.5	13427.9
45°	10236.1	10230.2	10176.6	10117.0	9926.5	9730.0	9783.6	10641.1	10915.0	12695.4	13797.1
47.5°	10456.5	10504.1	10551.7	10718.5	10849.5	10539.8	10265.9	10938.8	11188.9	12671.6	13934.0
50°	10254.0	10355.2	10587.5	10837.6	11284.2	11260.3	10670.8	11260.3	11504.5	12802.6	14094.8
52.5°	9801.4	9902.7	10212.3	10664.9	11337.8	11671.2	11421.1	11802.2	12088.1	13136.1	14428.3
55°	8747.5	8789.1	9426.3	10021.8	11069.8	11492.6	12225.0	12719.3	12957.4	13541.0	14868.9
57.5°	7121.8	7223.1	7848.3	8818.9	10319.5	11022.2	12683.5	14285.3	14279.4	13928.1	14964.2
60°	*4686.4*	*4984.1*	*6002.3*	*7074.2*	*8866.6*	*10099.2*	*12653.8*	*16119.4*	*16304.0*	*13547.0*	*13814.9*
62.5°	3578.8	3703.8	4281.4	5174.6	6562.1	8372.3	12457.2	16667.2	16810.1	12522.7	12094.0
65°	2691.5	2846.3	3400.1	4198.1	4632.8	5674.8	11171.0	14487.8	14684.3	11177.0	9402.5
67.5°	1649.5	1774.5	2512.9	3447.8	3507.3	3525.2	7538.7	10974.5	11046.0	9015.4	6329.9
70°	1101.6	1226.7	1738.8	2649.8	2792.8	2030.6	4138.5	8306.8	8300.9	6169.1	3846.7
72.5°	637.2	696.7	1101.6	1953.1	2197.3	1292.2	2066.3	5281.8	5049.6	2899.9	1798.3
75°	363.2	404.9	607.4	1256.4	1542.3	821.7	815.8	2828.5	2501.0	1494.6	982.5
77.5°	220.3	238.2	333.5	821.7	928.9	553.8	452.6	1316.0	1268.4	875.3	518.1
80°	107.2	125.0	202.5	482.3	595.5	297.7	273.9	518.1	553.8	482.3	273.9
82.5°	35.7	47.6	113.1	184.6	387.1	119.1	113.1	285.8	303.7	285.8	131.0
85°	17.9	23.8	53.6	59.5	148.9	59.5	41.7	125.0	154.8	95.3	53.6
87.5°	0.0	6.0	6.0	6.0	6.0	6.0	6.0	11.9	11.9	11.9	11.9
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°	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3
2.5°	3656.2	3644.3	3620.5	3578.8	3572.8	3543.1	3495.4	3465.6	3441.8	3459.7	3465.6
5°	3721.7	3691.9	3620.5	3507.3	3388.2	3269.1	3156.0	3025.0	2935.7	2923.8	2899.9
7.5°	3840.8	3781.2	3626.4	3406.1	3102.4	2816.6	2483.1	2161.6	2000.8	1977.0	1923.4
10°	4031.3	3930.1	3674.1	3227.5	2643.9	2048.4	1542.3	1196.9	1000.4	964.7	976.6
12.5°	4257.6	4114.7	3680.0	2923.8	2012.7	1268.4	875.3	744.3	702.7	684.8	684.8
15°	4549.4	4341.0	3674.1	2530.8	1357.7	815.8	702.7	649.1	631.2	619.3	619.3
17.5°	4918.6	4644.7	3632.4	1941.2	917.0	708.6	643.1	601.4	577.6	571.7	571.7
20°	5353.3	4984.1	3537.1	1447.0	768.2	661.0	607.4	553.8	535.9	524.0	524.0
22.5°	5907.1	5395.0	3352.5	1125.4	726.5	631.2	571.7	512.1	494.2	482.3	482.3
25°	6550.2	5919.0	3108.4	1012.3	720.5	607.4	535.9	476.4	458.5	452.6	446.6
27.5°	7312.4	6478.7	2882.1	1018.3	732.4	589.5	500.2	446.6	428.7	410.9	416.8
30°	8211.5	7056.3	2697.5	1089.7	744.3	571.7	476.4	428.7	410.9	387.1	387.1
32.5°	9098.8	7735.2	2679.6	1220.7	786.0	559.7	452.6	404.9	387.1	369.2	369.2
35°	10009.9	8354.5	2780.8	1393.4	869.4	541.9	422.8	381.1	363.2	351.3	345.4
37.5°	10879.2	8848.7	2876.1	1500.6	821.7	464.5	387.1	351.3	333.5	309.6	309.6
40°	11456.9	9116.7	2894.0	1417.2	678.8	416.8	351.3	315.6	291.8	279.9	273.9
42.5°	11879.6	9289.3	2691.5	1149.3	589.5	381.1	321.6	285.8	268.0	256.1	256.1
45°	12052.3	9229.8	2346.2	875.3	541.9	351.3	291.8	262.0	250.1	238.2	238.2
47.5°	12028.5	8955.9	1994.8	702.7	494.2	321.6	273.9	250.1	238.2	226.3	220.3
50°	11986.8	8699.8	1637.5	625.2	440.6	303.7	256.1	238.2	220.3	208.4	202.5
52.5°	12260.7	8616.5	1357.7	571.7	410.9	291.8	250.1	226.3	208.4	196.5	196.5
55°	12534.7	8652.2	1065.9	535.9	381.1	285.8	244.1	220.3	202.5	184.6	184.6
57.5°	12516.8	8497.4	809.8	500.2	357.3	279.9	238.2	214.4	184.6	172.7	172.7
60°	*11379.4*	*7580.3*	*631.2*	*458.5*	*327.5*	*262.0*	*220.3*	*202.5*	*172.7*	*154.8*	*154.8*
62.5°	9622.8	5960.7	518.1	404.9	291.8	238.2	202.5	184.6	154.8	125.0	125.0
65°	7109.9	4299.3	416.8	351.3	268.0	208.4	184.6	160.8	125.0	101.2	95.3
67.5°	4811.4	2643.9	333.5	291.8	238.2	178.6	154.8	137.0	113.1	83.4	77.4
70°	2852.3	1405.3	244.1	202.5	178.6	131.0	131.0	119.1	95.3	71.5	65.5
72.5°	1357.7	488.3	178.6	148.9	137.0	95.3	101.2	101.2	77.4	53.6	47.6
75°	690.7	238.2	119.1	107.2	89.3	71.5	83.4	77.4	53.6	35.7	35.7
77.5°	393.0	166.7	83.4	71.5	59.5	47.6	53.6	47.6	29.8	17.9	17.9
80°	220.3	119.1	53.6	47.6	35.7	29.8	29.8	23.8	17.9	6.0	6.0
82.5°	83.4	71.5	35.7	23.8	17.9	17.9	11.9	11.9	6.0	0.0	0.0
85°	35.7	17.9	17.9	11.9	11.9	6.0	6.0	6.0	0.0	0.0	0.0
87.5°	6.0	6.0	6.0	6.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3
2.5°	3418.0	3429.9	3441.8	3489.5	3501.4	3537.1	3566.9	3602.6	3608.6	3656.2	3656.2
5°	2947.6	2941.6	3042.9	3191.7	3287.0	3418.0	3519.2	3626.4	3686.0	3763.4	3799.1
7.5°	1953.1	2102.0	2328.3	2590.3	2929.7	3245.3	3483.5	3691.9	3834.8	3924.2	3959.9
10°	970.6	1054.0	1292.2	1720.9	2298.5	2941.6	3447.8	3834.8	4067.1	4168.3	4233.8
12.5°	684.8	702.7	744.3	976.6	1530.4	2441.4	3334.6	3989.7	4311.2	4501.8	4585.1
15°	613.3	625.2	643.1	708.6	946.8	1822.1	3132.2	4162.3	4692.3	4912.6	5019.8
17.5°	565.7	571.7	589.5	643.1	744.3	1238.6	2804.7	4346.9	5150.8	5418.8	5621.2
20°	524.0	524.0	541.9	607.4	690.7	952.8	2334.2	4555.4	5734.4	6121.4	6323.9
22.5°	476.4	488.3	500.2	571.7	672.9	869.4	1893.6	4716.1	6383.4	6853.9	7092.1
25°	440.6	452.6	464.5	535.9	655.0	869.4	1637.5	4817.4	7109.9	7669.7	7997.2
27.5°	410.9	422.8	440.6	512.1	637.2	905.1	1536.3	4847.1	7901.9	8628.4	9069.0
30°	387.1	399.0	416.8	494.2	649.1	946.8	1572.0	4805.4	8705.8	9616.9	10140.9
32.5°	363.2	375.1	393.0	476.4	649.1	1000.4	1691.1	4722.1	9485.8	10605.3	11248.4
35°	345.4	351.3	357.3	428.7	589.5	994.4	1840.0	4638.7	10271.9	11581.9	12332.2
37.5°	309.6	315.6	327.5	369.2	470.4	905.1	1869.8	4537.5	10891.2	12403.7	13231.4
40°	273.9	285.8	297.7	339.4	393.0	732.4	1738.8	4323.1	11218.7	13034.9	14041.2
42.5°	250.1	256.1	268.0	309.6	363.2	583.6	1458.9	3948.0	11510.4	13463.6	14630.7
45°	232.2	238.2	250.1	279.9	339.4	506.2	1149.3	3489.5	11534.3	13600.5	14916.5
47.5°	214.4	220.3	226.3	256.1	327.5	452.6	881.3	3072.6	11528.3	13779.2	15160.7
50°	202.5	208.4	220.3	244.1	309.6	404.9	726.5	2733.2	11778.4	14166.2	15654.9
52.5°	196.5	196.5	214.4	238.2	291.8	369.2	607.4	2429.5	11909.4	14547.3	16012.2
55°	184.6	190.6	202.5	226.3	273.9	351.3	518.1	2048.4	11969.0	14737.9	16077.7
57.5°	172.7	178.6	196.5	214.4	262.0	333.5	446.6	1530.4	11117.4	13743.5	14982.0
60°	*154.8*	*166.7*	*190.6*	*208.4*	*244.1*	*303.7*	*393.0*	*1036.1*	*9378.7*	*11945.1*	*12981.3*
62.5°	125.0	148.9	172.7	184.6	220.3	256.1	333.5	690.7	7491.0	9884.8	11063.8
65°	95.3	125.0	142.9	160.8	184.6	214.4	279.9	470.4	4996.0	6651.4	7979.3
67.5°	83.4	107.2	119.1	131.0	154.8	184.6	226.3	327.5	3030.9	3995.6	5305.6
70°	65.5	89.3	101.2	95.3	119.1	142.9	160.8	220.3	1548.2	2167.5	3019.0
72.5°	47.6	71.5	77.4	77.4	71.5	101.2	119.1	154.8	672.9	1054.0	1369.6
75°	35.7	47.6	53.6	47.6	41.7	65.5	83.4	101.2	440.6	631.2	797.9
77.5°	17.9	17.9	29.8	29.8	17.9	35.7	41.7	59.5	250.1	369.2	458.5
80°	6.0	0.0	0.0	6.0	0.0	11.9	17.9	29.8	131.0	196.5	285.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	65.5	59.5	148.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	35.7
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: P1501966
CATALOG NUMBER: GSS-SB5B-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3	3644.3
2.5°	3686.0	3686.0	3709.8	3745.5	3763.4	3775.3	3781.2	3793.1	3840.8	3828.9
5°	3840.8	3852.7	3870.6	3906.3	3948.0	3936.1	3936.1	3936.1	3965.8	3942.0
7.5°	4043.2	4079.0	4084.9	4126.6	4096.8	4037.3	4001.6	3948.0	3942.0	3942.0
10°	4370.8	4358.8	4358.8	4305.3	4198.1	4025.4	3870.6	3763.4	3703.8	3709.8
12.5°	4722.1	4674.4	4680.4	4483.9	4180.2	3799.1	3483.5	3251.3	3233.4	3215.5
15°	5156.8	5031.7	5007.9	4555.4	3912.2	3328.7	3019.0	2834.4	2774.9	2757.0
17.5°	5776.1	5460.5	5347.3	4430.3	3560.9	3036.9	2804.7	2721.3	2715.3	2709.4
20°	6431.1	5805.8	5591.5	4245.7	3441.8	3042.9	2870.2	2846.3	2834.4	2840.4
22.5°	7193.3	6026.2	5752.2	4275.5	3549.0	3239.4	3102.4	3084.5	3072.6	3084.5
25°	7979.3	6282.2	5942.8	4513.7	3870.6	3602.6	3441.8	3406.1	3441.8	3495.4
27.5°	8771.3	6627.6	6317.9	4984.1	4388.6	4096.8	3942.0	4073.0	4126.6	4132.6
30°	9473.9	7109.9	6824.1	5645.1	4978.1	4686.4	4716.1	4882.9	4948.4	5013.9
32.5°	10117.0	7753.0	7532.7	6395.4	5740.3	5567.7	5549.8	5674.8	5746.3	5704.6
35°	10766.1	8592.6	8378.3	7211.1	6675.2	6532.3	6383.4	6627.6	6603.8	6538.3
37.5°	11379.4	9438.2	9241.7	8086.5	7532.7	7282.6	7258.8	7479.1	7675.6	7663.7
40°	11820.1	10123.0	9884.8	8955.9	8431.9	8217.5	8342.5	8723.6	8676.0	8610.5
42.5°	12225.0	10706.6	10492.2	9718.1	9170.2	9265.5	9378.7	9634.7	9604.9	9539.4
45°	12415.6	11206.8	11022.2	10295.7	10027.7	10331.4	10325.5	10420.7	10260.0	10236.1
47.5°	12683.5	11564.0	11373.5	10813.7	11051.9	11177.0	10825.7	10724.4	10575.6	10456.5
50°	13177.8	12117.8	11927.3	11599.8	11802.2	11415.2	10986.4	10766.1	10462.4	10254.0
52.5°	13755.4	12957.4	12790.7	12659.7	12094.0	11296.1	10748.2	10349.3	9980.1	9801.4
55°	14481.8	14196.0	14076.9	13356.4	11832.0	10807.8	10164.7	9420.3	8914.2	8747.5
57.5°	14720.0	16012.2	15970.5	13469.5	11099.6	9920.5	8759.4	7753.0	7229.0	7121.8
60°	14017.4	17435.4	17286.5	13279.0	9771.7	8050.8	6693.1	5662.9	4811.4	4686.4
62.5°	13118.2	16345.7	16292.1	12320.3	7443.4	5770.1	5002.0	4037.3	3674.1	3578.8
65°	11236.5	13374.3	13398.1	9884.8	4710.2	4144.5	4108.7	3209.6	2763.0	2691.5
67.5°	8652.2	10260.0	10093.2	6216.7	2745.1	3316.8	3281.0	2346.2	1697.1	1649.5
70°	5055.5	7639.9	7371.9	3233.4	1816.2	2768.9	2524.8	1649.5	1155.2	1101.6
72.5°	2233.0	4204.0	4513.7	1423.2	1280.3	2203.2	1822.1	1012.3	649.1	637.2
75°	1238.6	2084.1	2179.4	619.3	899.2	1566.1	1101.6	565.7	369.2	363.2
77.5°	744.3	923.0	899.2	399.0	672.9	1000.4	666.9	321.6	232.2	220.3
80°	416.8	422.8	357.3	291.8	399.0	559.7	375.1	202.5	107.2	107.2
82.5°	256.1	232.2	184.6	89.3	107.2	339.4	137.0	113.1	35.7	35.7
85°	107.2	71.5	47.6	17.9	41.7	89.3	47.6	53.6	17.9	17.9
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

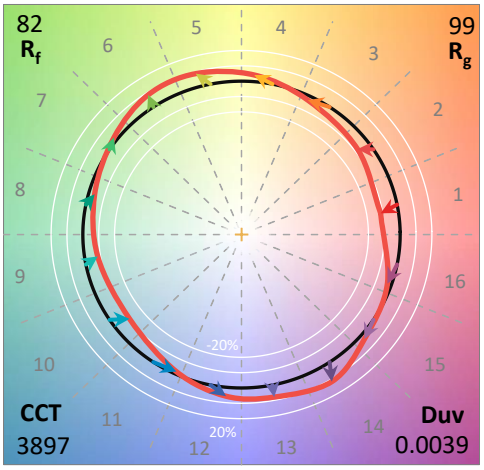
Test Information

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

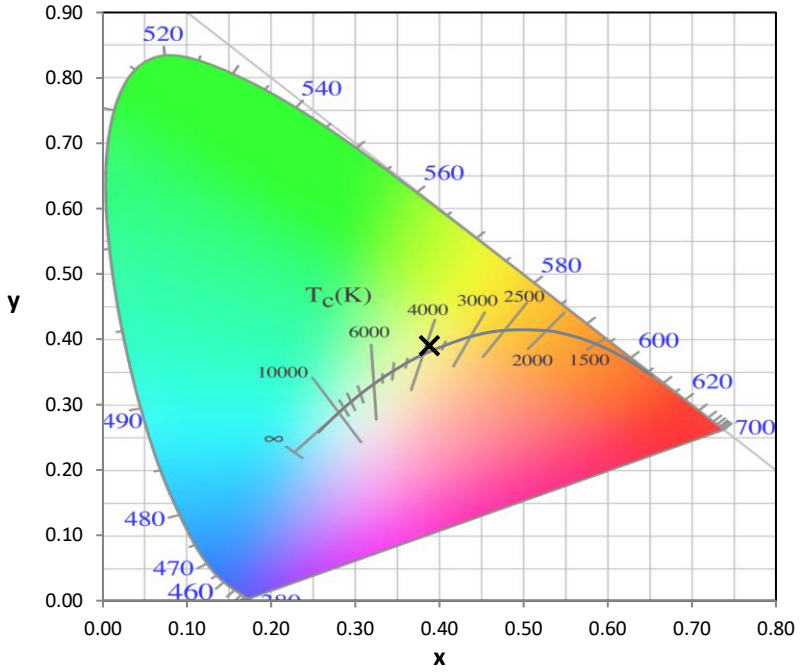
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

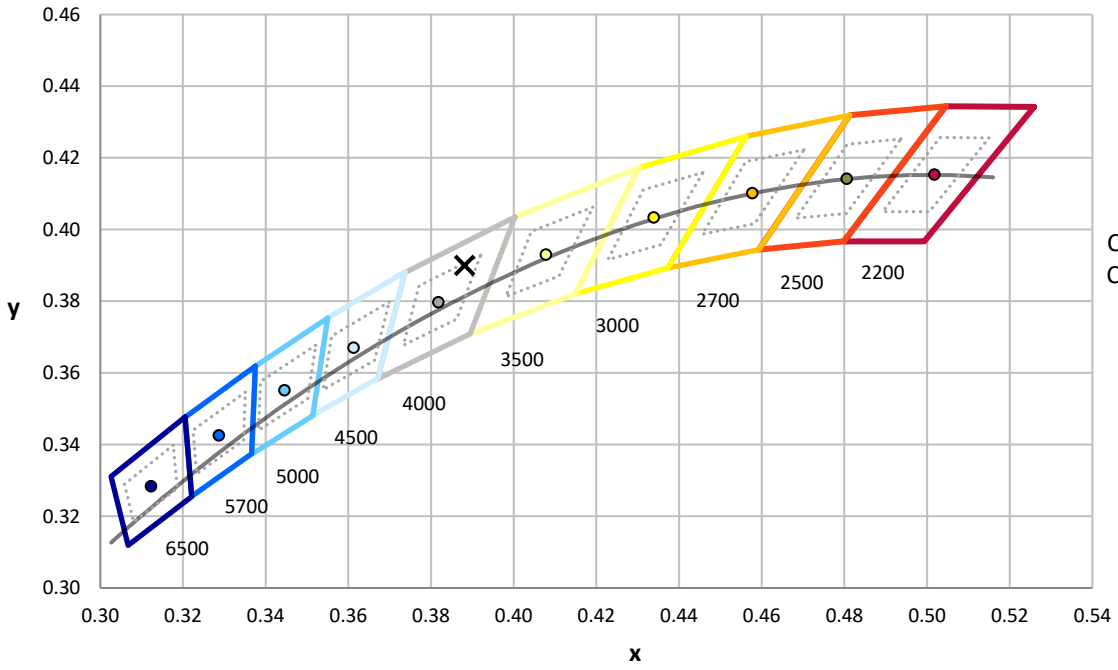
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

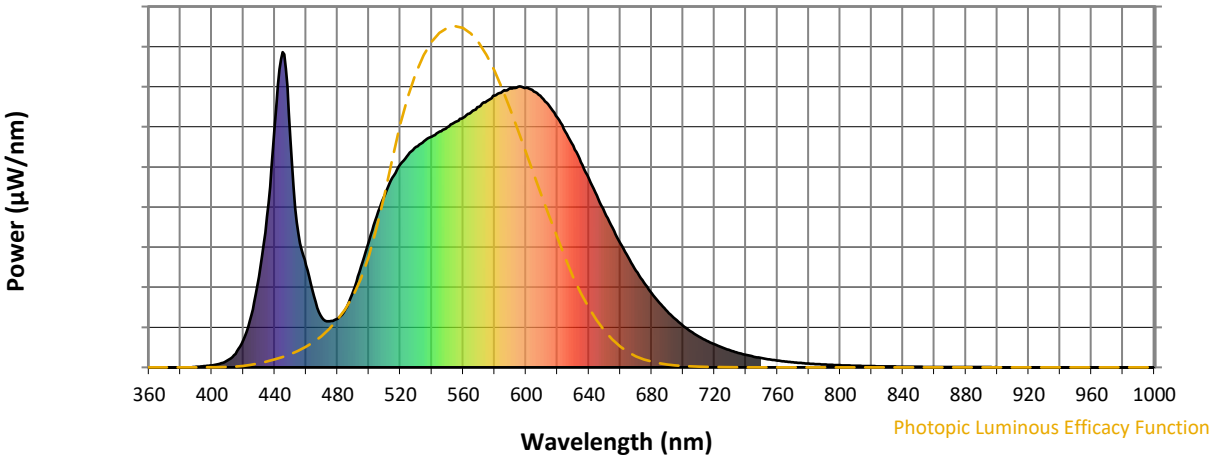


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

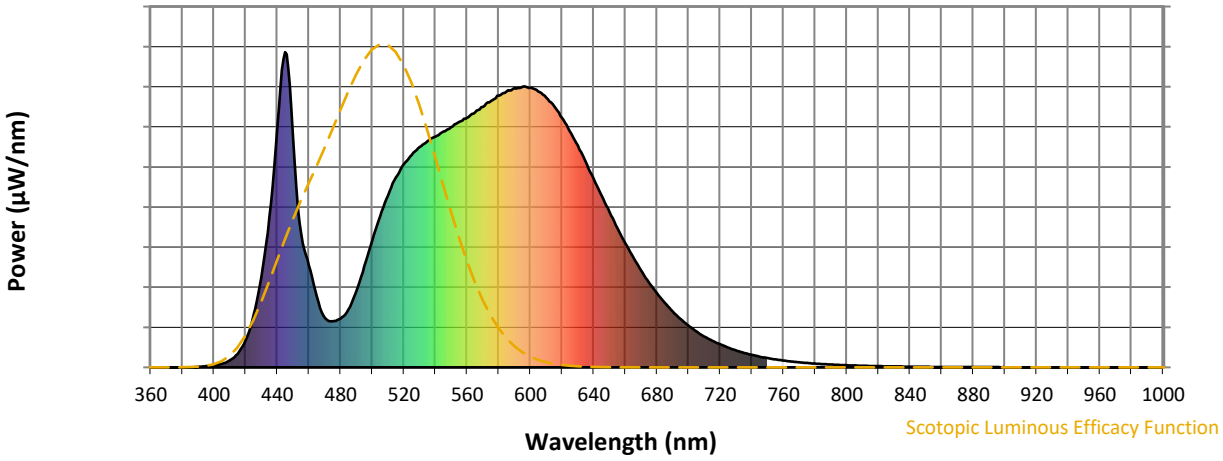


Photopic Lumens: NR

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

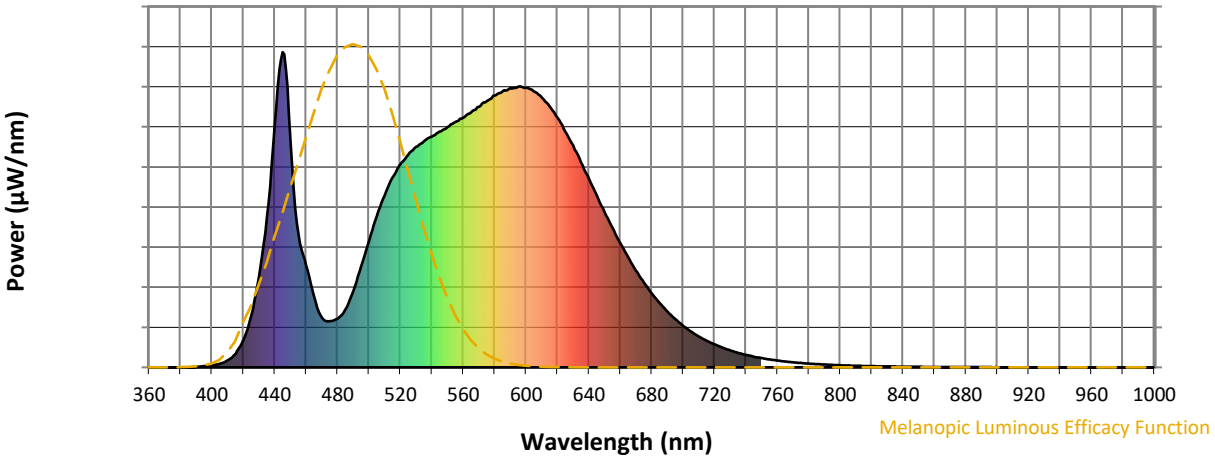


Scotopic Lumens: NR **S/P: 1.57**

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			

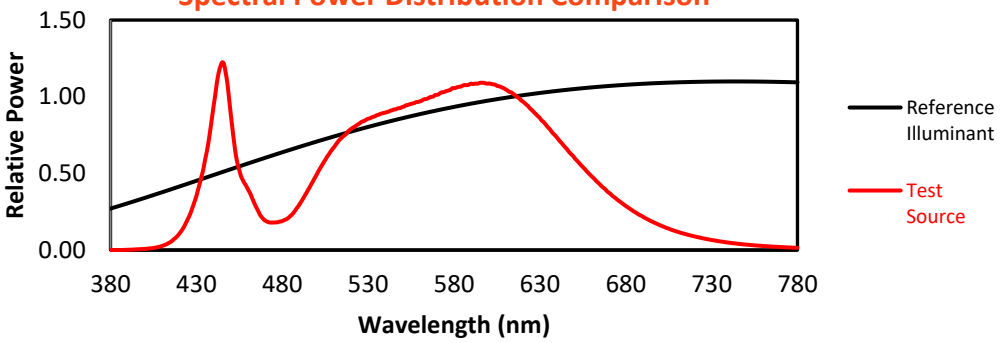
REPORT NUMBER: SP1-2407-184-11

TM-30-18

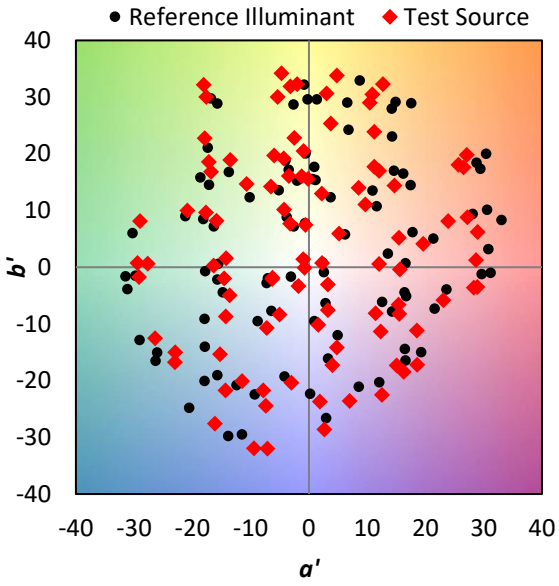
Summary

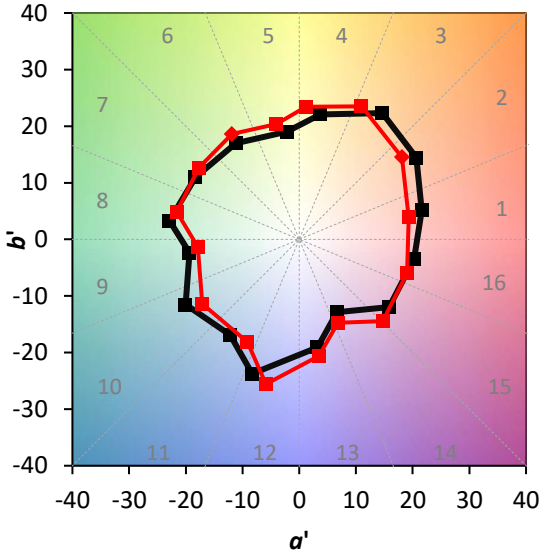
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

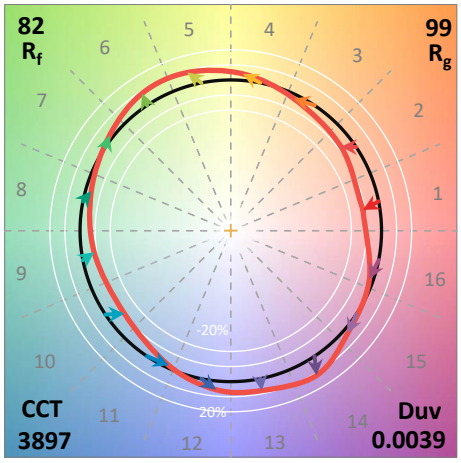
Spectral Power Distribution Comparison

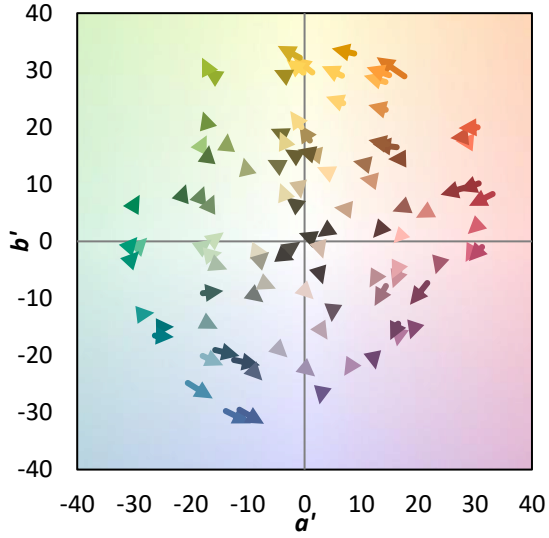


Color Vector Graphics







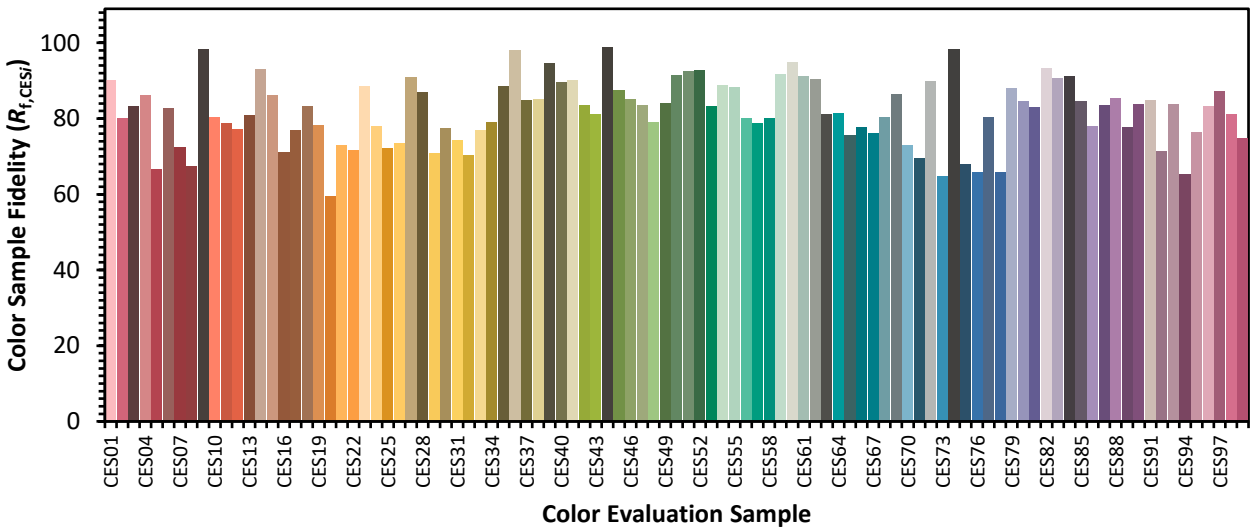


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Individual Sample Fidelity Index ($R_{f,i}$)

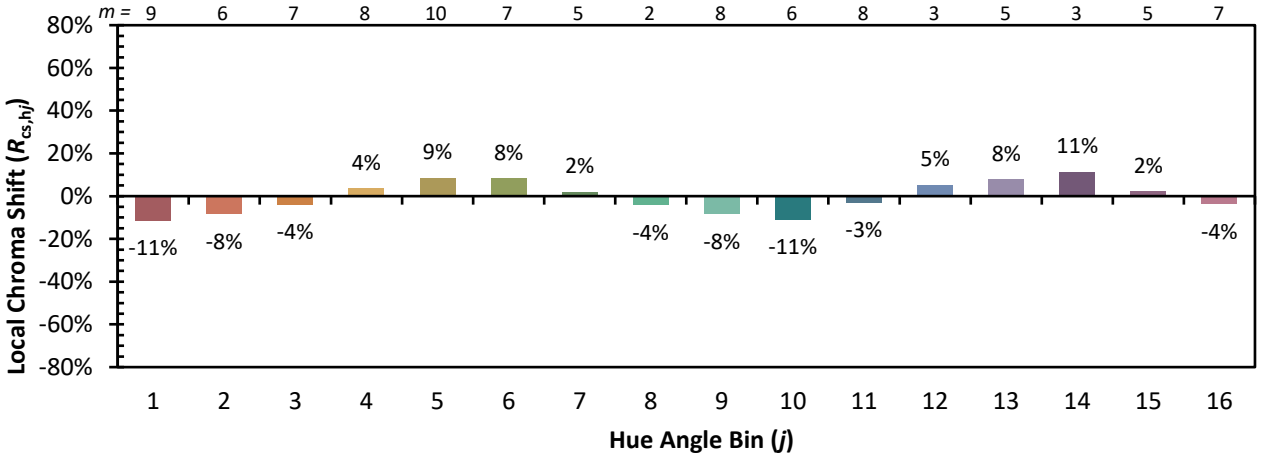
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 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	

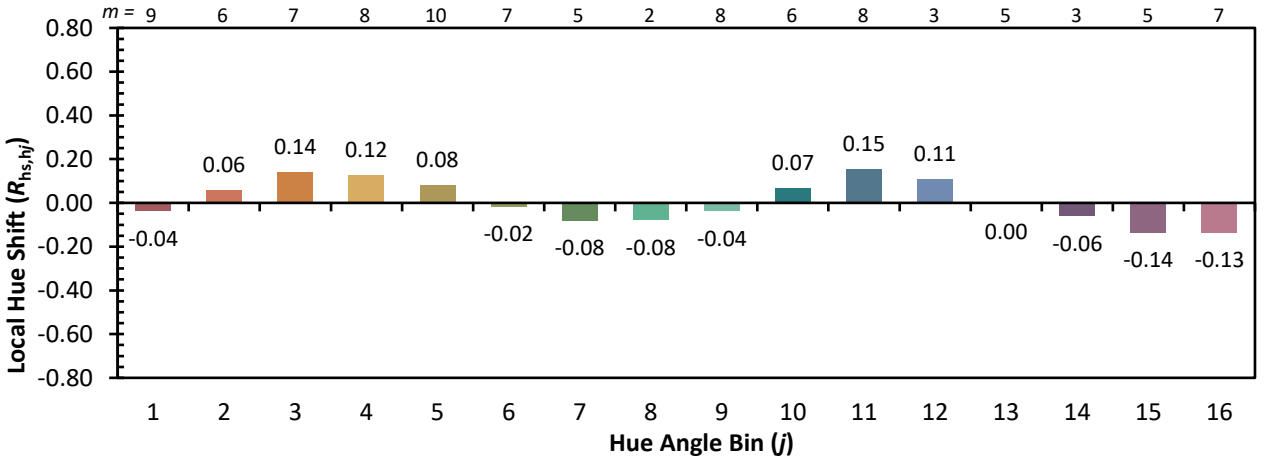


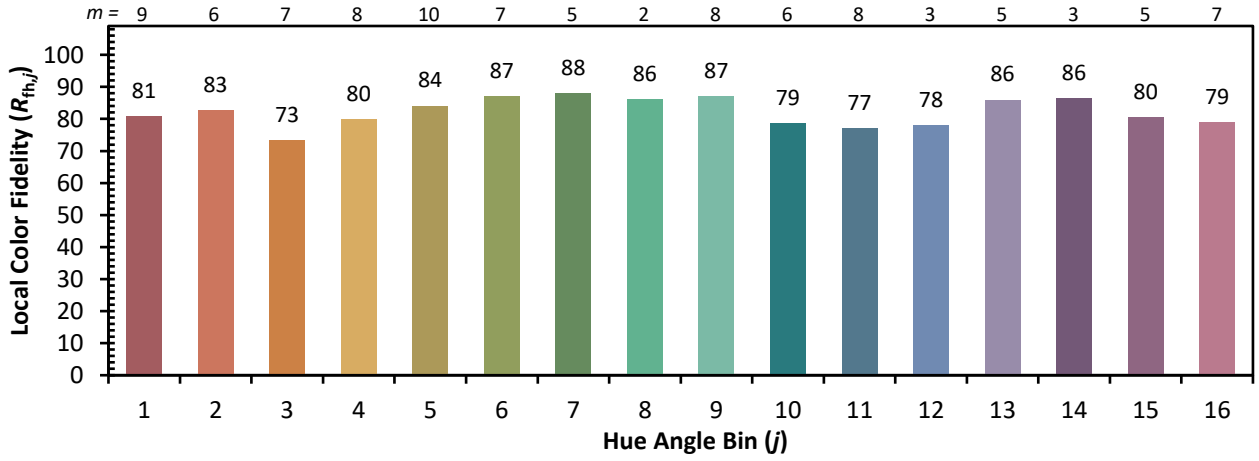
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Color Rendition by Hue-Angle Bin



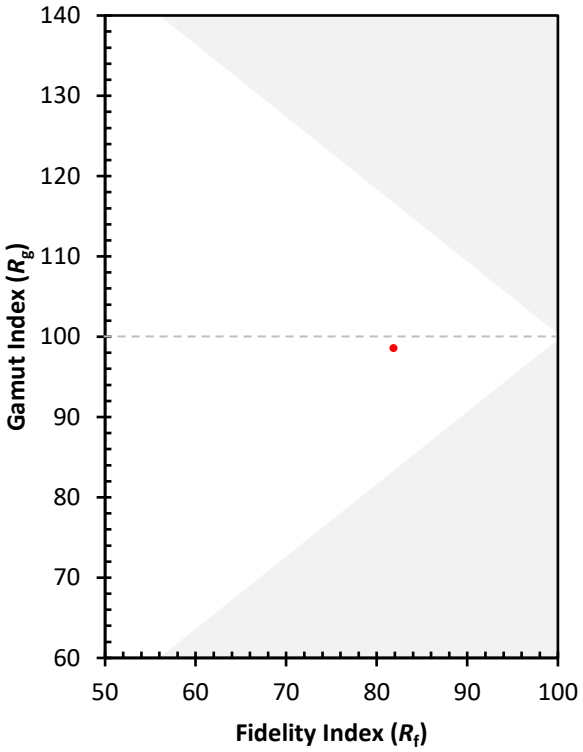


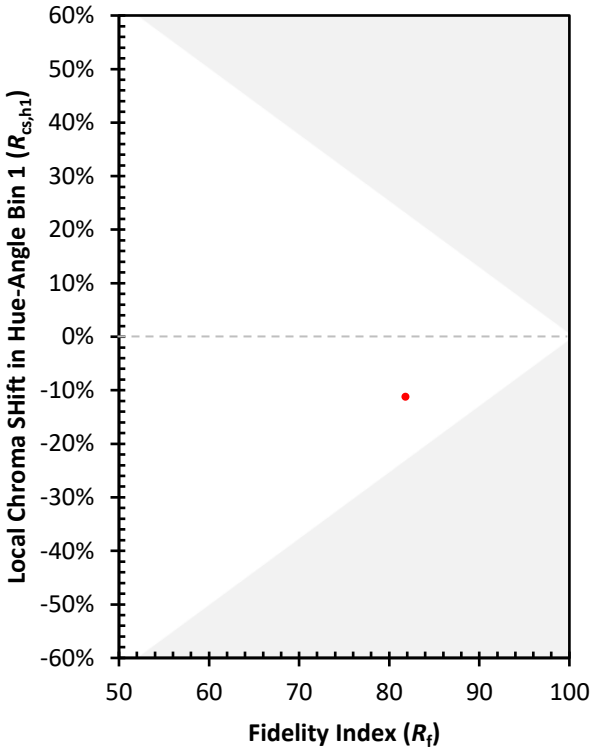


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Measure Comparisons





(END OF REPORT)