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: P1501388

Luminaire Tested: GSS-SB4D-727-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501388
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4D-727-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29610.6 lumens
Efficiency:	N/A
Efficacy:	124.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

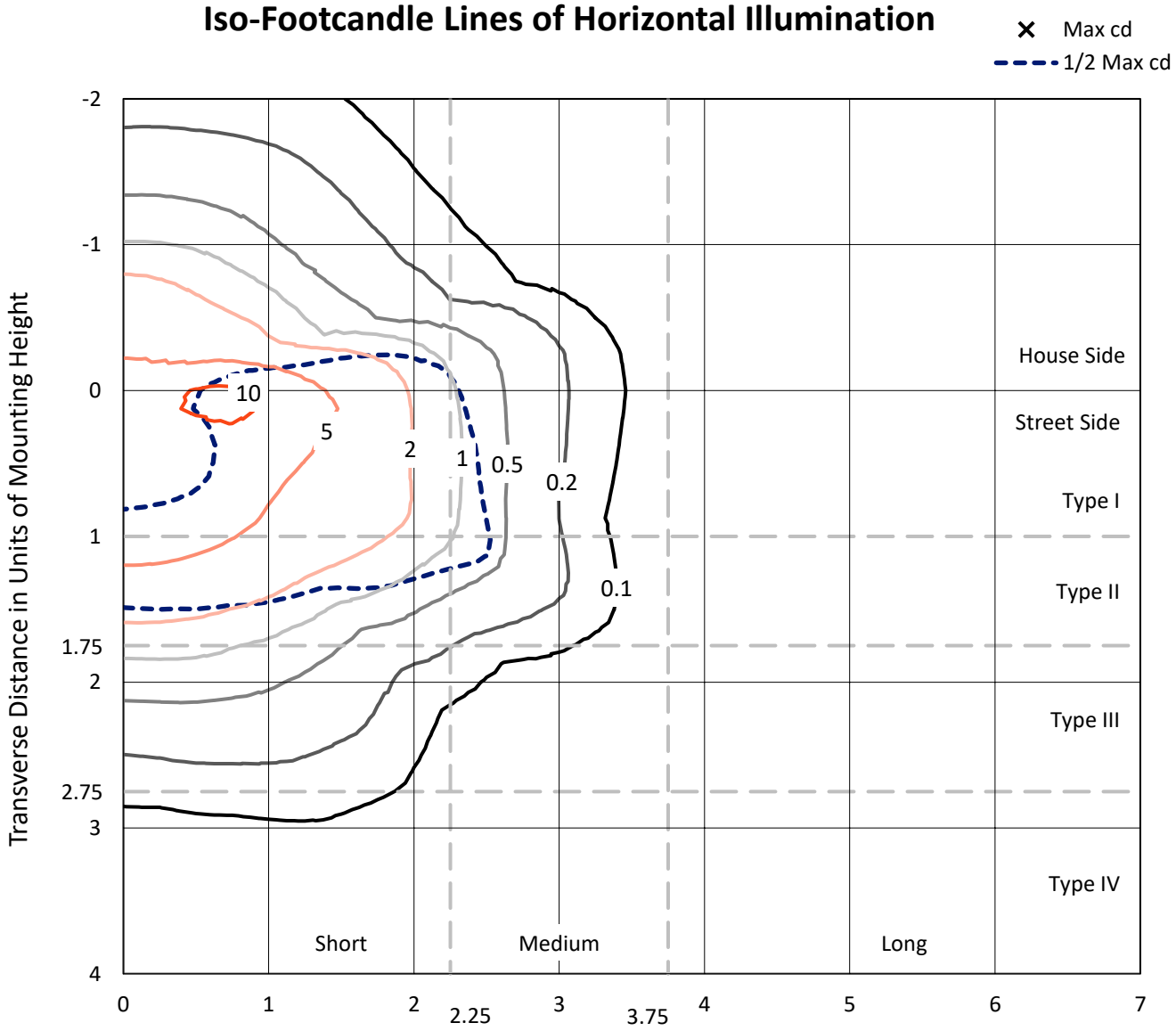
Input Watts (W):	238
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



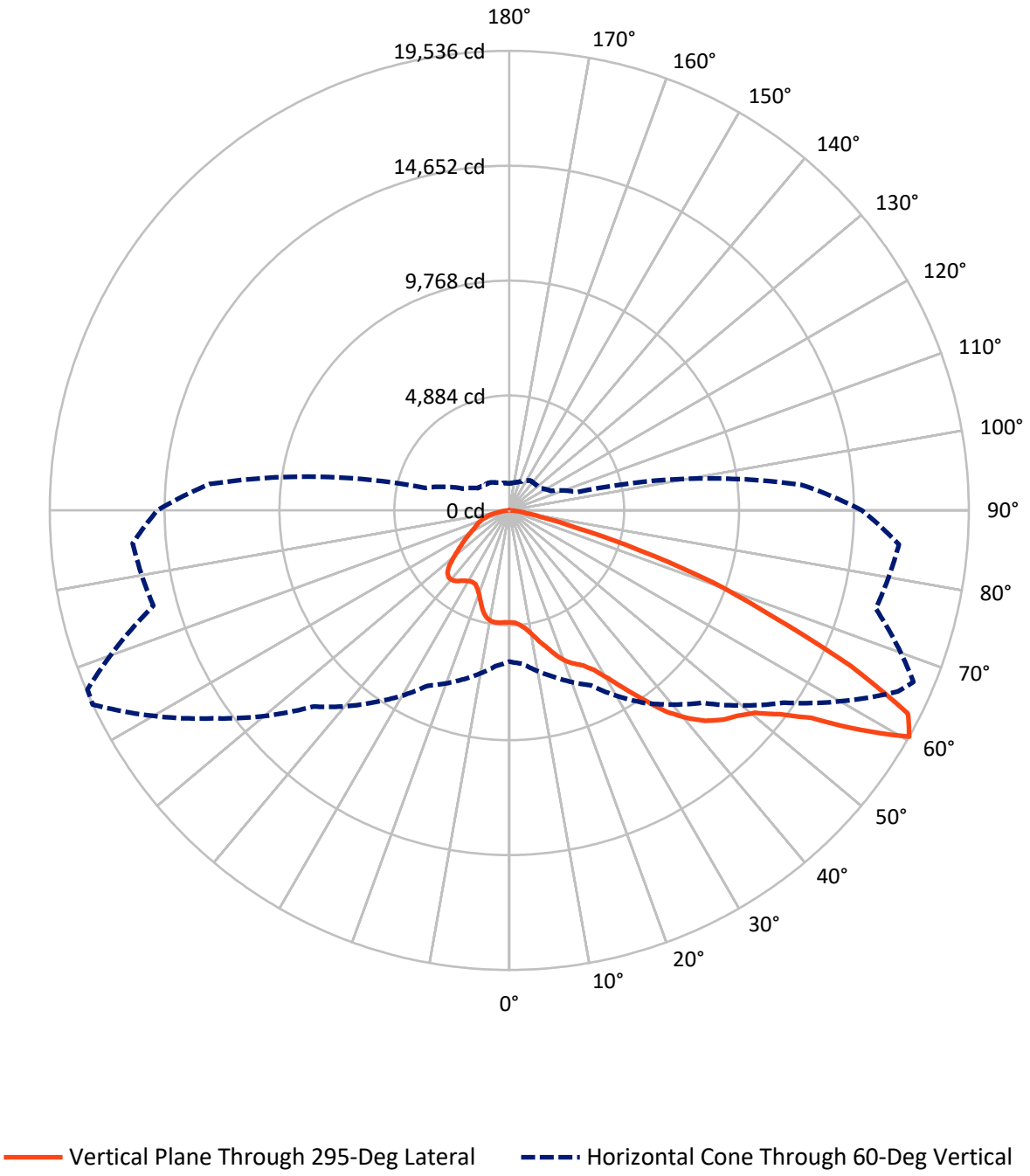
Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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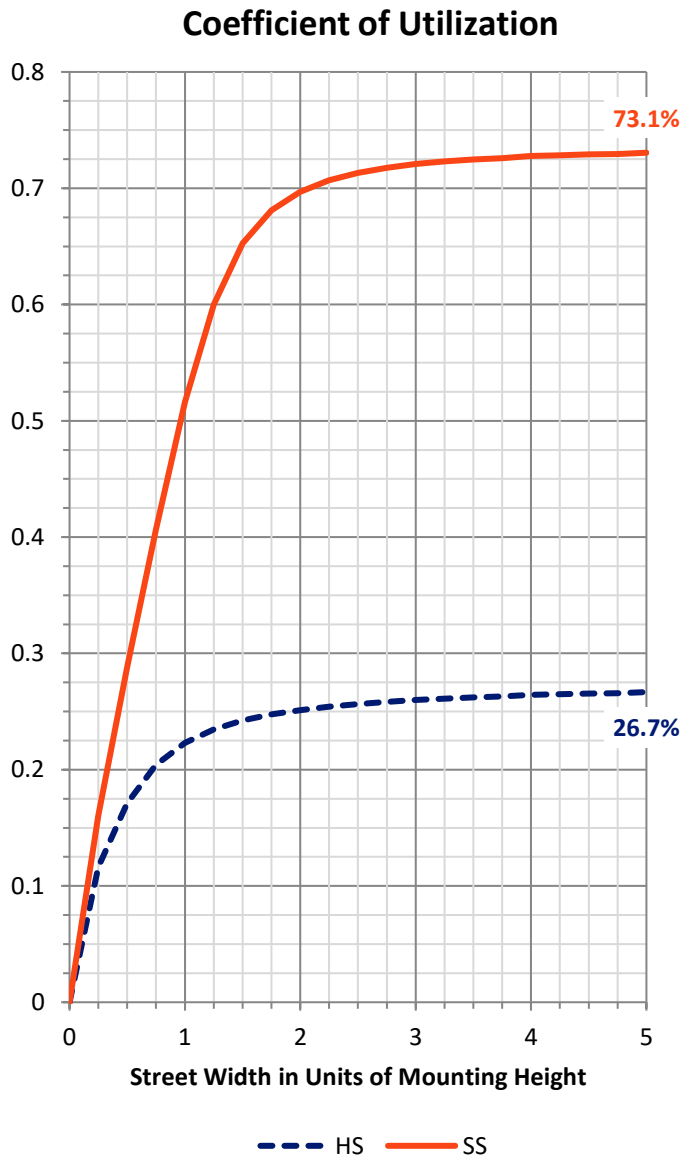
REPORT NUMBER: P1501388
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7962.7	0.0	7962.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	21648.0	0.0	21648.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	29610.6	0.0	29610.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.5
10°-20°	1287.7	4.3
20°-30°	2439.1	8.2
30°-40°	4300.1	14.5
40°-50°	6359.3	21.5
50°-60°	7467.6	25.2
60°-70°	5410.6	18.3
70°-80°	1668.6	5.6
80°-90°	229.7	0.8
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°	29610.6	100.0
0°-180°	29610.6	100.0



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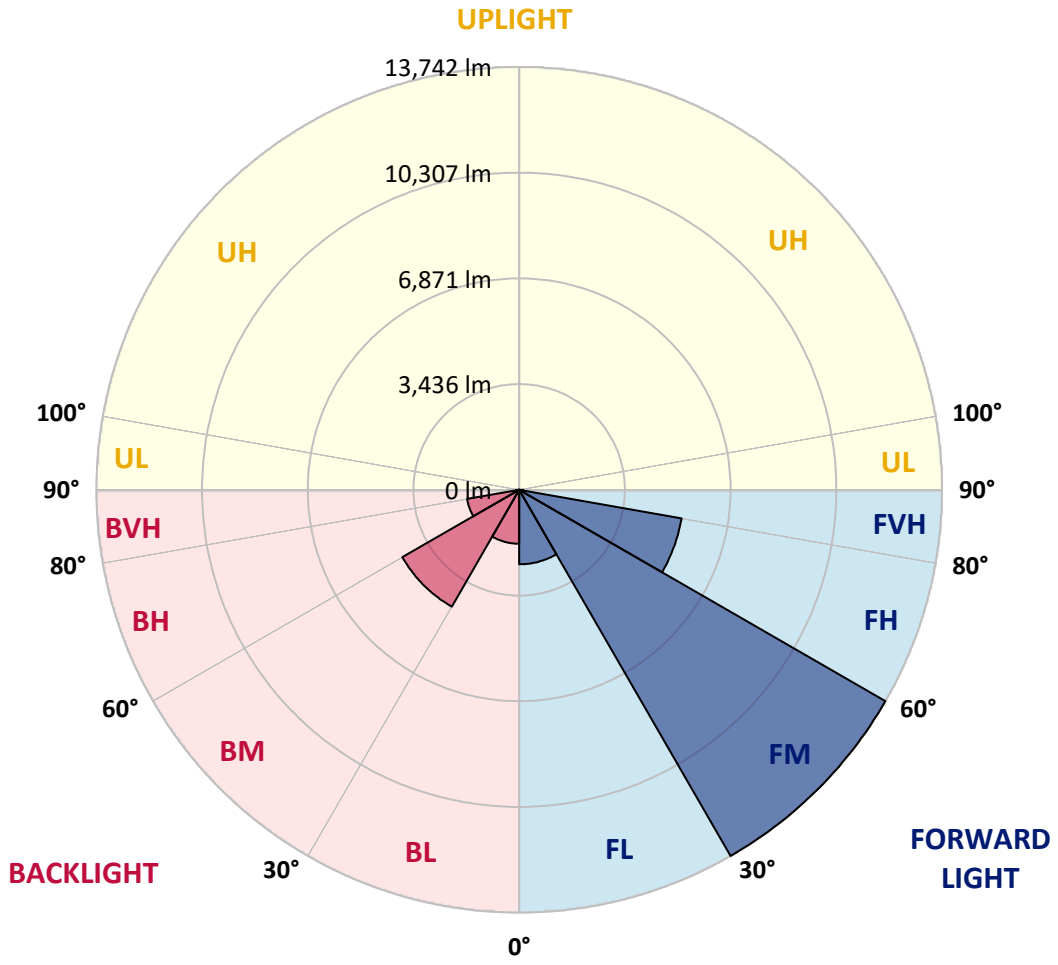
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2421.1	8.2			
FM	(30°-60°)	13742.5	46.4			
FH	(60°-80°)	5360.4	18.1			G3/7500
FVH	(80°-90°)	123.9	0.4			G2/225
BL	(0°-30°)	1753.6	5.9	B3/2500		
BM	(30°-60°)	4384.5	14.8	B3/5000		
BH	(60°-80°)	1718.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	105.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4858.7	4872.2	4851.9	4865.4	4865.4	4845.2	4838.4	4811.5	4824.9	4818.2	4811.5
5°	4973.4	4980.2	4966.7	4986.9	4986.9	4993.7	4986.9	4953.2	4953.2	4953.2	4939.7
7.5°	4939.7	4939.7	4946.4	5013.9	5081.4	5169.1	5169.1	5155.6	5169.1	5162.4	5101.6
10°	4656.2	4683.2	4744.0	4912.7	5074.6	5263.6	5391.8	5432.3	5432.3	5439.0	5337.8
12.5°	4150.1	4170.4	4312.1	4568.5	4905.9	5250.1	5560.5	5762.9	5783.2	5816.9	5682.0
15°	3698.0	3711.5	3812.7	4075.9	4460.5	5067.9	5655.0	6073.4	6140.8	6282.6	6080.1
17.5°	3738.5	3731.7	3758.7	3860.0	4136.6	4771.0	5634.7	6437.8	6559.2	6808.9	6633.5
20°	3981.4	3981.4	4001.7	4021.9	4123.1	4555.0	5486.3	6734.7	6970.9	7456.7	7254.3
22.5°	4366.1	4366.1	4359.3	4393.1	4393.1	4649.5	5493.0	6957.4	7308.3	8178.8	7983.1
25°	4899.2	4872.2	4872.2	4885.7	4824.9	5007.1	5661.7	7186.8	7645.7	9035.8	8867.1
27.5°	5499.8	5520.0	5506.5	5459.3	5378.3	5520.0	6066.6	7544.5	8023.6	9940.1	9872.6
30°	6154.3	6161.1	6174.6	6147.6	6080.1	6181.3	6700.9	8084.3	8523.0	10884.8	11033.3
32.5°	6795.4	6889.9	6856.2	6788.7	6815.7	6997.9	7483.7	8813.1	9265.3	11762.1	12288.4
35°	7611.9	7645.7	7780.7	7531.0	7537.7	7848.1	8482.5	9771.4	10210.0	12673.1	13543.6
37.5°	8799.6	8860.4	8799.6	8408.2	8347.5	8779.4	9454.2	10716.1	11033.3	13361.4	14711.0
40°	9967.1	10041.3	10142.5	9683.6	9299.0	9656.6	10372.0	11438.2	11768.8	13739.3	15487.1
42.5°	10932.1	11053.5	10945.5	10810.6	10459.7	10527.2	11013.0	11998.3	12328.9	14218.4	16269.9
45°	11748.6	11768.8	11816.1	11721.6	11546.1	11485.4	11559.6	12490.9	12855.3	14434.4	16654.5
47.5°	12086.0	12173.7	12214.2	12376.2	12558.4	12436.9	12025.3	12720.3	13051.0	14420.9	16776.0
50°	11903.8	11991.5	12207.5	12592.1	13030.7	13246.7	12571.9	13037.5	13408.6	14663.8	17025.7
52.5°	11424.7	11519.1	11870.0	12308.7	13044.2	13536.8	13341.2	13698.8	14056.5	15095.7	17444.0
55°	10264.0	10405.7	10898.3	11627.1	12639.3	13381.6	14150.9	14670.5	15061.9	15615.3	17875.9
57.5°	8576.9	8725.4	9278.7	10372.0	11890.3	12740.6	14387.1	16492.6	16668.0	16236.1	17916.4
60°	*6424.3*	*6545.7*	*7328.5*	*8205.8*	*9987.3*	*11566.4*	*14252.2*	*18220.1*	*18665.5*	*16128.1*	*16627.5*
62.5°	5088.1	5236.6	5931.6	6336.5	7611.9	9555.4	13779.8	18699.2	19083.9	15237.4	14832.5
65°	3974.7	4075.9	4723.7	5304.1	5614.5	6525.5	11809.3	16357.6	16701.7	13786.5	12241.2
67.5°	2625.0	2780.2	3549.5	4345.8	4507.8	4150.1	8124.8	12585.4	12747.3	10959.0	9204.5
70°	1882.7	1957.0	2530.6	3380.8	3623.8	2780.2	4426.8	9528.4	9575.7	7355.5	6201.6
72.5°	1282.2	1295.7	1720.8	2591.3	2888.2	2017.7	2436.1	6275.8	6113.9	3630.5	3549.5
75°	870.5	884.0	1100.0	1727.5	2044.7	1403.6	1585.8	3421.3	3286.4	2004.2	2152.7
77.5°	587.1	600.6	755.8	1160.7	1363.1	971.7	1160.7	1808.5	1774.8	1329.4	1153.9
80°	445.4	465.6	560.1	742.3	951.5	566.8	661.3	857.0	870.5	708.6	587.1
82.5°	249.7	276.7	337.4	377.9	614.1	317.2	317.2	512.9	492.6	438.6	317.2
85°	108.0	114.7	135.0	141.7	249.7	135.0	114.7	222.7	229.4	215.9	101.2
87.5°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	27.0	27.0	27.0	27.0
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°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4777.7	4818.2	4777.7	4757.5	4757.5	4723.7	4710.2	4710.2	4663.0	4683.2	4669.7
5°	4885.7	4899.2	4851.9	4791.2	4710.2	4642.7	4548.3	4426.8	4352.6	4345.8	4352.6
7.5°	5054.4	5061.1	4932.9	4798.0	4595.5	4352.6	4062.4	3826.2	3617.0	3583.3	3623.8
10°	5290.6	5277.1	5088.1	4771.0	4345.8	3833.0	3387.6	3171.6	3050.2	3043.4	3036.7
12.5°	5607.7	5520.0	5229.8	4656.2	3913.9	3320.1	3090.7	3077.2	3110.9	3137.9	3144.7
15°	5972.1	5857.4	5344.6	4433.6	3475.3	3131.2	3144.7	3259.4	3299.9	3326.9	3326.9
17.5°	6424.3	6275.8	5472.8	4116.4	3252.6	3171.6	3266.1	3374.1	3441.6	3468.6	3461.8
20°	7024.9	6714.4	5574.0	3812.7	3191.9	3239.1	3320.1	3428.1	3495.6	3529.3	3529.3
22.5°	7625.4	7240.8	5594.2	3603.5	3191.9	3245.9	3320.1	3428.1	3502.3	3536.0	3529.3
25°	8442.0	7915.6	5601.0	3455.1	3198.6	3212.1	3279.6	3374.1	3482.1	3515.8	3529.3
27.5°	9312.5	8657.9	5634.7	3421.3	3171.6	3164.9	3212.1	3299.9	3407.8	3495.6	3502.3
30°	10392.2	9494.7	5648.2	3455.1	3178.4	3090.7	3124.4	3212.1	3326.9	3414.6	3441.6
32.5°	11451.7	10270.7	5621.2	3529.3	3191.9	3043.4	3050.2	3104.2	3225.6	3286.4	3333.6
35°	12571.9	11094.0	5574.0	3630.5	3198.6	3023.2	2962.5	2989.4	3070.4	3077.2	3097.4
37.5°	13449.1	11708.1	5432.3	3765.5	3212.1	2949.0	2827.5	2807.2	2773.5	2706.0	2719.5
40°	14171.2	12119.7	5196.1	3833.0	3178.4	2861.2	2658.8	2564.3	2436.1	2334.9	2355.1
42.5°	14690.8	12396.4	4912.7	3846.5	3124.4	2712.8	2463.1	2301.1	2159.4	2051.4	2058.2
45°	14920.2	12369.4	4609.0	3745.2	2996.2	2530.6	2280.9	2125.7	1970.5	1855.7	1842.3
47.5°	14927.0	12106.2	4190.6	3502.3	2780.2	2321.4	2112.2	1943.5	1815.3	1734.3	1727.5
50°	14981.0	11957.8	3799.2	3151.4	2496.8	2098.7	1963.7	1795.0	1720.8	1606.1	1572.3
52.5°	15318.4	12200.7	3529.3	2766.8	2233.6	1936.7	1835.5	1687.0	1565.6	1491.3	1484.6
55°	15865.0	12619.1	3380.8	2476.6	1984.0	1781.5	1714.0	1585.8	1477.9	1403.6	1383.4
57.5°	15932.5	12835.0	3205.4	2206.7	1781.5	1660.1	1633.1	1491.3	1336.1	1282.2	1261.9
60°	*14987.7*	*12470.6*	*2989.4*	*1957.0*	*1633.1*	*1565.6*	*1552.1*	*1363.1*	*1234.9*	*1167.4*	*1140.4*
62.5°	13698.8	11559.6	2658.8	1727.5	1518.3	1471.1	1417.1	1268.7	1106.7	1032.5	1012.2
65°	11195.2	9717.4	2260.6	1572.3	1403.6	1349.6	1336.1	1133.7	1025.7	985.2	978.5
67.5°	8482.5	7807.6	1990.7	1457.6	1282.2	1261.9	1214.7	1147.2	1100.0	1052.7	1039.2
70°	5999.1	5634.7	1693.8	1309.1	1160.7	1126.9	1322.6	1248.4	1079.7	1019.0	1012.2
72.5°	3637.3	3536.0	1464.4	1174.2	998.7	1052.7	1221.4	1126.9	971.7	897.5	870.5
75°	2294.4	2098.7	1228.2	998.7	796.3	857.0	1066.2	1005.5	836.8	762.5	742.3
77.5°	1248.4	1160.7	924.5	816.5	627.6	695.1	931.2	830.0	668.1	728.8	647.8
80°	546.6	607.3	614.1	472.4	418.4	512.9	668.1	647.8	512.9	519.6	431.9
82.5°	263.2	344.2	398.1	323.9	236.2	303.7	445.4	371.1	344.2	323.9	310.4
85°	81.0	128.2	175.5	155.2	108.0	128.2	209.2	202.4	242.9	209.2	195.7
87.5°	27.0	27.0	20.2	20.2	20.2	27.0	33.7	20.2	6.7	6.7	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°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4663.0	4669.7	4669.7	4676.5	4676.5	4696.7	4723.7	4750.7	4730.5	4757.5	4764.2
5°	4339.1	4372.8	4399.8	4501.0	4582.0	4649.5	4723.7	4791.2	4811.5	4824.9	4858.7
7.5°	3576.5	3671.0	3846.5	4075.9	4332.3	4582.0	4750.7	4926.2	4953.2	4986.9	5034.1
10°	3043.4	3083.9	3205.4	3441.6	3900.4	4393.1	4804.7	5081.4	5196.1	5263.6	5310.8
12.5°	3131.2	3104.2	3083.9	3117.7	3414.6	4048.9	4771.0	5304.1	5520.0	5594.2	5655.0
15°	3340.3	3313.4	3239.1	3144.7	3178.4	3684.5	4656.2	5513.3	5857.4	5978.9	6107.1
17.5°	3461.8	3434.8	3374.1	3272.9	3185.1	3380.8	4440.3	5702.2	6390.5	6539.0	6721.2
20°	3529.3	3502.3	3441.6	3340.3	3239.1	3266.1	4163.6	5938.4	6997.9	7234.0	7504.0
22.5°	3542.8	3509.1	3441.6	3340.3	3279.6	3259.4	3900.4	6080.1	7652.4	8016.8	8327.3
25°	3536.0	3475.3	3387.6	3313.4	3279.6	3272.9	3718.2	6161.1	8361.0	8941.3	9292.2
27.5°	3488.8	3414.6	3326.9	3272.9	3259.4	3299.9	3637.3	6255.6	9191.0	9933.3	10493.4
30°	3434.8	3326.9	3218.9	3198.6	3232.4	3360.6	3704.8	6289.3	10061.5	11013.0	11586.6
32.5°	3293.1	3212.1	3104.2	3097.4	3178.4	3407.8	3860.0	6242.1	10830.8	12092.7	12814.8
35°	3090.7	3043.4	2982.7	3002.9	3131.2	3448.3	3967.9	6093.6	11532.6	13098.2	13941.7
37.5°	2733.0	2766.8	2800.5	2847.7	3009.7	3441.6	4015.2	5857.4	12113.0	13901.2	14981.0
40°	2334.9	2449.6	2557.6	2679.0	2895.0	3387.6	4028.7	5567.2	12450.4	14508.6	15905.5
42.5°	2085.2	2193.2	2328.1	2503.6	2739.8	3266.1	4015.2	5243.3	12558.4	14927.0	16492.6
45°	1855.7	1984.0	2152.7	2334.9	2604.8	3090.7	3893.7	4892.4	12612.3	15122.7	16742.2
47.5°	1734.3	1808.5	1963.7	2145.9	2429.3	2874.7	3657.5	4636.0	12531.4	15163.2	17045.9
50°	1592.6	1693.8	1795.0	1970.5	2247.1	2604.8	3374.1	4487.5	12666.3	15561.3	17525.0
52.5°	1484.6	1538.6	1646.6	1808.5	2011.0	2355.1	3104.2	4366.1	13037.5	15966.2	18024.4
55°	1403.6	1464.4	1531.8	1666.8	1822.0	2105.4	2827.5	4183.9	13469.4	16398.1	18523.8
57.5°	1275.4	1315.9	1410.4	1552.1	1653.3	1862.5	2503.6	3967.9	13435.6	16060.7	17660.0
60°	*1160.7*	*1201.2*	*1302.4*	*1444.1*	*1504.8*	*1646.6*	*2186.4*	*3691.3*	*12787.8*	*14960.7*	*16067.4*
62.5°	1032.5	1079.7	1201.2	1302.4	1356.4	1464.4	1855.7	3185.1	11438.2	13307.4	14204.9
65°	978.5	1005.5	1086.5	1207.9	1201.2	1302.4	1565.6	2503.6	9204.5	10169.5	10986.0
67.5°	1039.2	1079.7	1066.2	1100.0	1079.7	1133.7	1403.6	2011.0	7234.0	7659.2	8131.6
70°	1025.7	1120.2	1167.4	1100.0	944.7	1005.5	1214.7	1606.1	5175.9	5135.4	5115.1
72.5°	897.5	992.0	1126.9	1194.4	924.5	836.8	1052.7	1390.1	3320.1	3306.6	2989.4
75°	762.5	830.0	992.0	1079.7	796.3	674.8	904.3	1180.9	1984.0	2011.0	1795.0
77.5°	701.8	668.1	830.0	951.5	647.8	519.6	728.8	890.8	1093.2	1106.7	1025.7
80°	506.1	485.9	620.8	695.1	492.6	371.1	411.6	553.4	587.1	526.4	546.6
82.5°	323.9	330.7	371.1	445.4	303.7	202.4	283.4	371.1	317.2	256.4	303.7
85°	209.2	236.2	195.7	229.4	94.5	94.5	121.5	162.0	108.0	74.2	81.0
87.5°	0.0	0.0	13.5	27.0	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: P1501388
CATALOG NUMBER: GSS-SB4D-727-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4764.2	4764.2	*4764.2*	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4784.5	4777.7	*4777.7*	4791.2	4824.9	4838.4	4858.7	4851.9	4872.2	4858.7
5°	4878.9	4885.7	*4905.9*	4912.7	4932.9	4959.9	4966.7	4959.9	4973.4	4973.4
7.5°	5067.9	5094.9	*5081.4*	5115.1	5088.1	5054.4	5000.4	4959.9	4926.2	4939.7
10°	5385.0	5371.6	*5364.8*	5304.1	5182.6	5007.1	4865.4	4710.2	4683.2	4656.2
12.5°	5736.0	5722.5	*5722.5*	5513.3	5169.1	4804.7	4480.8	4237.9	4156.9	4150.1
15°	6228.6	6140.8	*6059.9*	5621.2	4932.9	4312.1	3934.2	3745.2	3698.0	3698.0
17.5°	6842.7	6613.2	*6478.3*	5540.3	4548.3	3988.2	3765.5	3718.2	3704.8	3738.5
20°	7605.2	7024.9	*6829.2*	5358.1	4406.6	4028.7	3920.7	3927.4	3934.2	3981.4
22.5°	8442.0	7402.8	*7078.8*	5358.1	4548.3	4285.1	4231.1	4305.3	4325.6	4366.1
25°	9373.2	7740.2	*7301.5*	5641.5	4966.7	4771.0	4703.5	4777.7	4831.7	4899.2
27.5°	10419.2	8091.1	*7686.2*	6154.3	5506.5	5385.0	5310.8	5344.6	5418.8	5499.8
30°	11357.2	8678.2	*8273.3*	6937.1	6242.1	6093.6	5965.4	6019.4	6100.4	6154.3
32.5°	12187.2	9393.5	*9049.3*	7760.4	7085.6	6829.2	6687.4	6673.9	6835.9	6795.4
35°	12949.8	10237.0	*9906.3*	8698.4	7942.6	7625.4	7436.5	7679.4	7571.5	7611.9
37.5°	13550.3	11114.3	*10851.1*	9595.9	8833.4	8401.5	8286.8	8583.7	8752.4	8799.6
40°	14043.0	11876.8	*11600.1*	10486.7	9649.9	9332.7	9514.9	10007.5	9987.3	9967.1
42.5°	14420.9	12531.4	*12227.7*	11161.5	10432.7	10493.4	10635.1	10965.8	11046.8	10932.1
45°	14589.6	12943.0	*12700.1*	11694.6	11323.4	11674.4	11735.1	11876.8	11822.8	11748.6
47.5°	14785.3	13307.4	*13051.0*	12180.5	12288.4	12632.6	12511.1	12396.4	12200.7	12086.0
50°	15115.9	13739.3	*13523.4*	12889.0	13280.4	13165.7	12693.3	12436.9	12038.8	11903.8
52.5°	15743.5	14555.8	*14393.9*	14009.2	13746.0	13084.7	12511.1	12052.2	11606.9	11424.7
55°	16303.6	15662.5	*15568.0*	15055.2	13604.3	12659.6	11890.3	11181.7	10419.2	10264.0
57.5°	16627.5	17498.0	*17606.0*	15500.6	12956.5	11694.6	10560.9	9427.2	8705.2	8576.9
60°	*15662.5*	*19482.0*	*19536.0*	*15412.8*	*11789.1*	*9953.6*	*8226.0*	*7423.0*	*6647.0*	*6424.3*
62.5°	14333.1	19070.4	*19023.1*	14886.5	9386.7	7261.0	6248.8	5870.9	5270.3	5088.1
65°	12322.2	15885.2	*15939.2*	12862.0	6242.1	5250.1	5250.1	4771.0	4102.9	3974.7
67.5°	10041.3	12247.9	*12126.5*	8340.7	3833.0	4204.1	4406.6	3718.2	2780.2	2625.0
70°	6525.5	9353.0	*9184.3*	4811.5	2409.1	3502.3	3468.6	2793.7	1990.7	1882.7
72.5°	2807.2	5405.3	*5749.4*	2456.3	1815.3	2820.7	2766.8	1957.0	1329.4	1282.2
75°	1693.8	2719.5	*2962.5*	1565.6	1322.6	2125.7	1916.5	1241.7	904.3	870.5
77.5°	1073.0	1491.3	*1477.9*	1174.2	992.0	1437.4	1288.9	857.0	614.1	587.1
80°	620.8	735.6	*762.5*	735.6	668.1	1025.7	823.3	620.8	479.1	445.4
82.5°	398.1	458.9	*465.6*	357.7	371.1	661.3	445.4	364.4	276.7	249.7
85°	175.5	195.7	*188.9*	121.5	121.5	269.9	155.2	148.5	108.0	108.0
87.5°	6.7	13.5	*6.7*	6.7	6.7	27.0	13.5	20.2	20.2	20.2
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

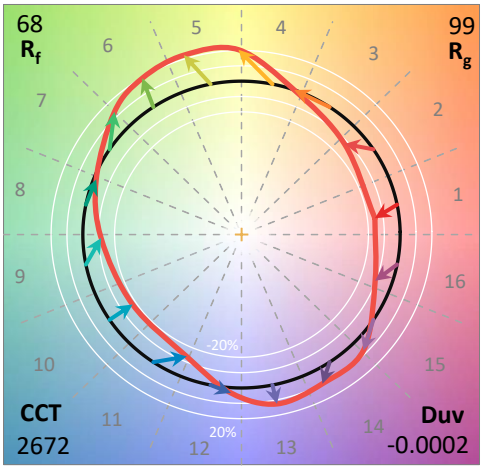
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-3
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-727-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672
CIE u':	0.2638
CIE v':	0.5276
Duv:	-0.0002
CIE x:	0.4619
CIE y:	0.4106
CIE z:	0.1275
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	584
Purity:	61.88407
Rf:	67.9
Rg:	98.6

CRI (Ra):	71.1
R1:	68.3
R2:	79.8
R3:	91.2
R4:	69.4
R5:	66.5
R6:	72.6
R7:	77.0
R8:	44.1
R9:	-27.8
R10:	54.4
R11:	65.8
R12:	45.6
R13:	69.8
R14:	94.5
R15:	60.1



Test Conditions

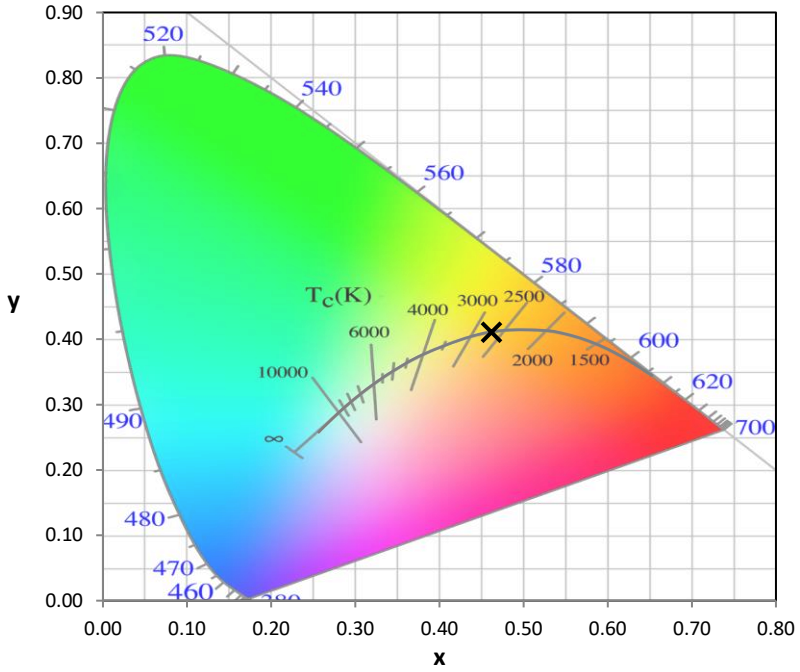
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

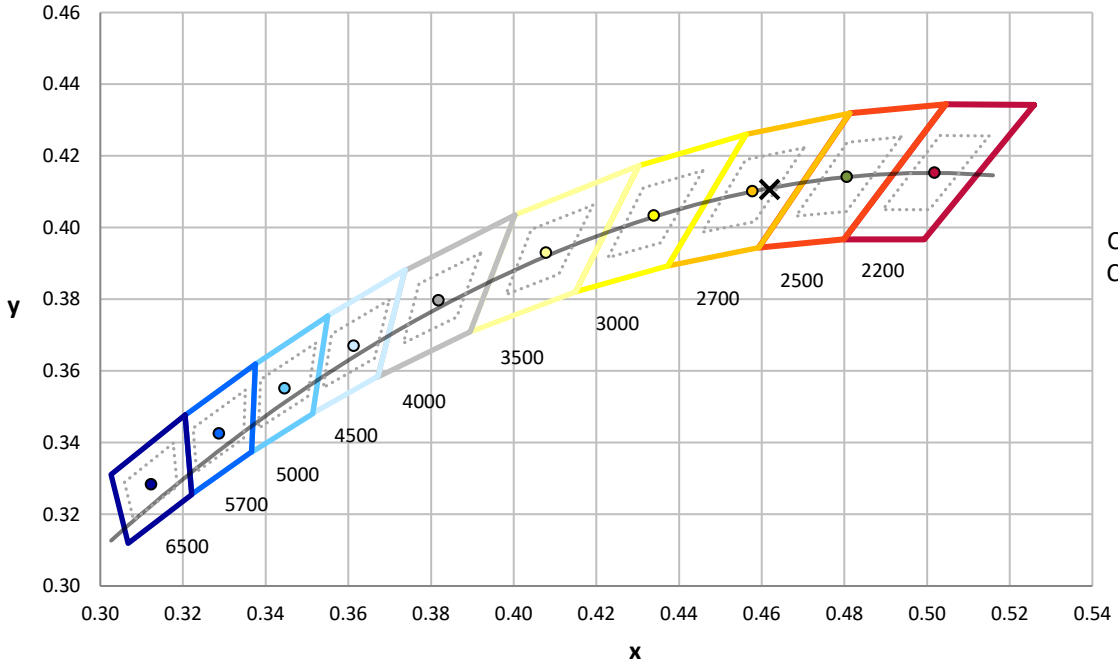
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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

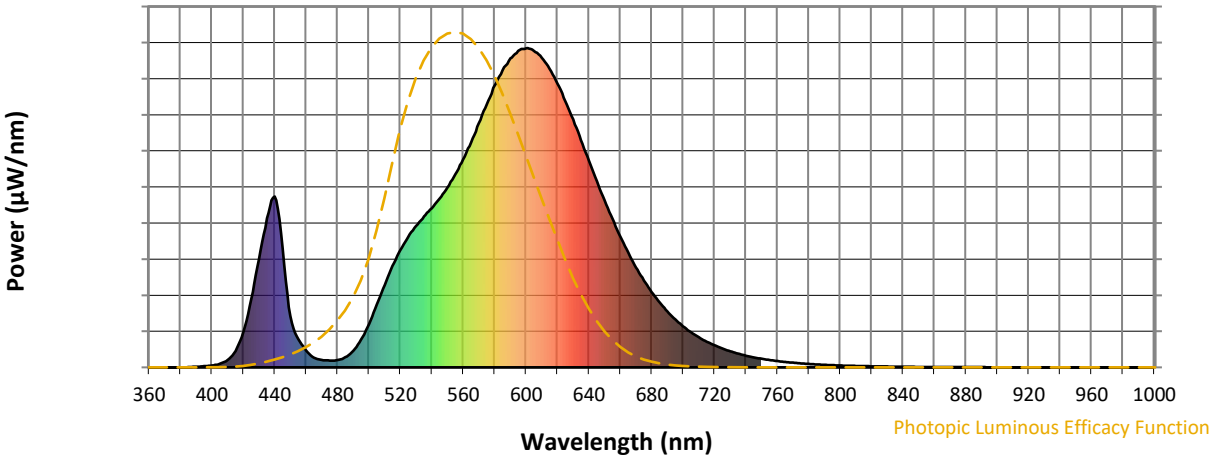


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

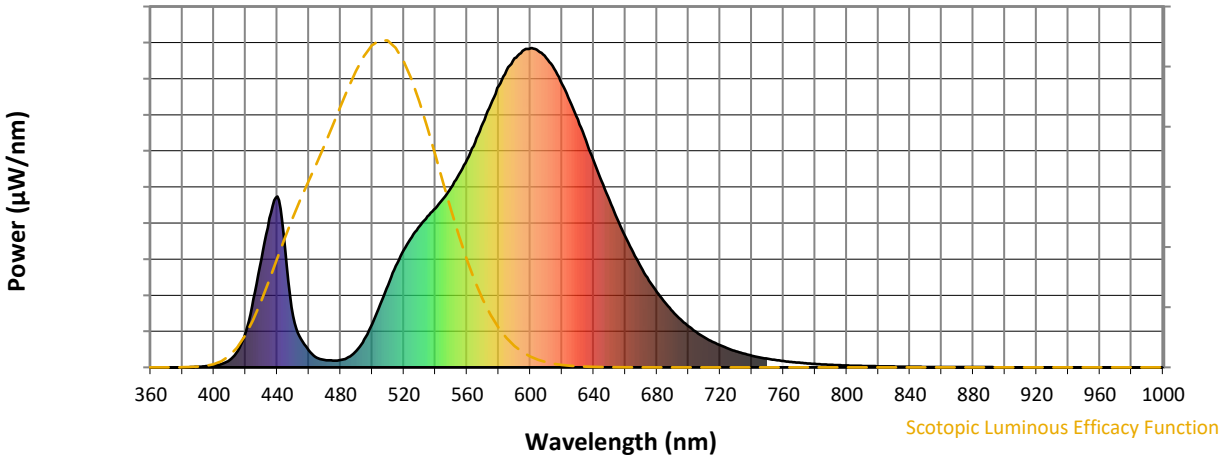


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength

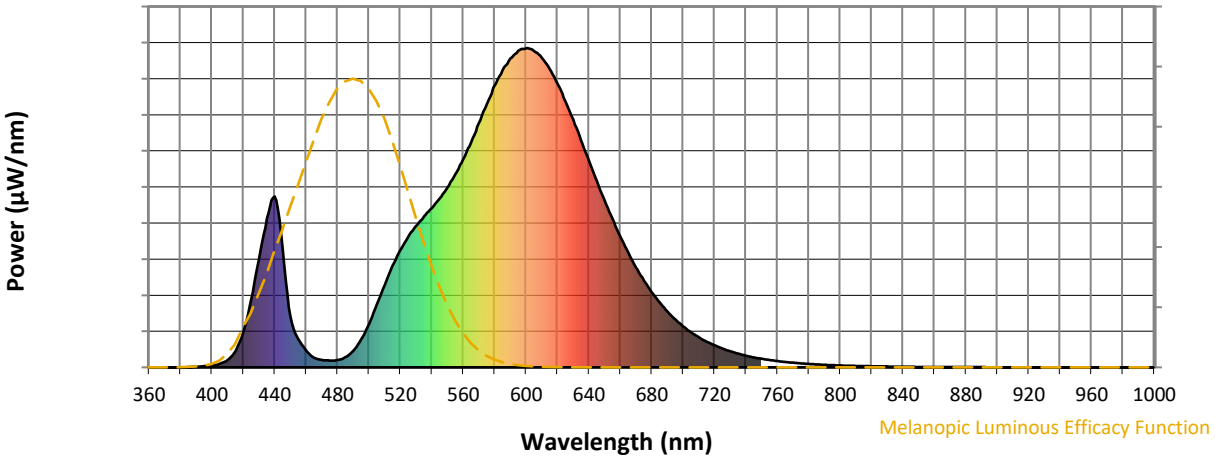


Scotopic Lumens: NR **S/P: 1.02**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.71**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

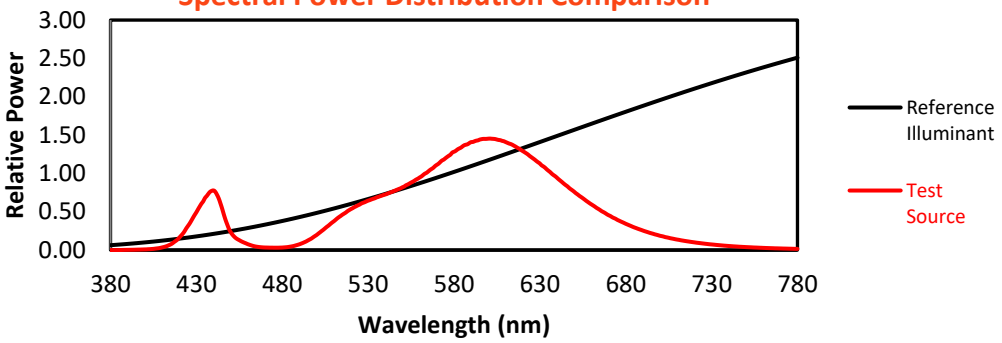
REPORT NUMBER: SP1-2407-184-3

TM-30-18

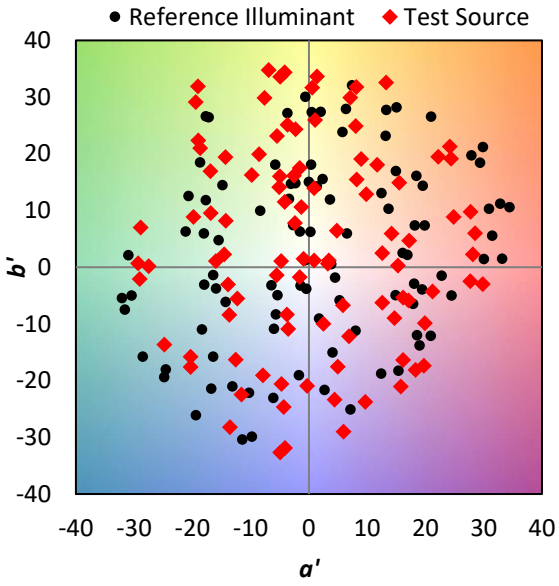
Summary

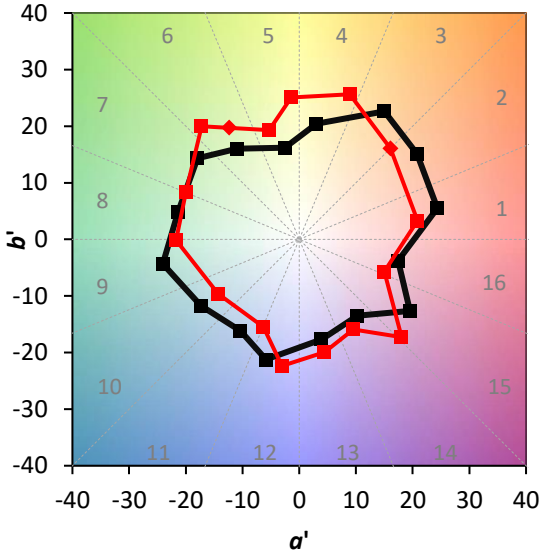
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

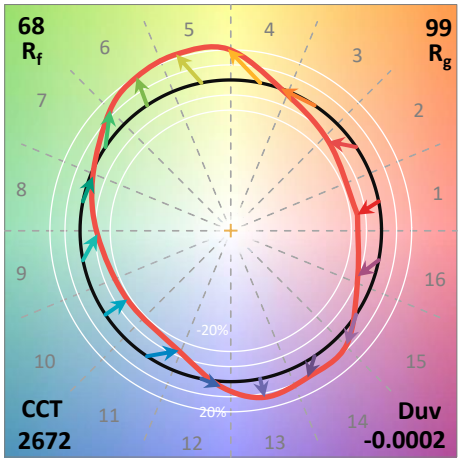
Spectral Power Distribution Comparison

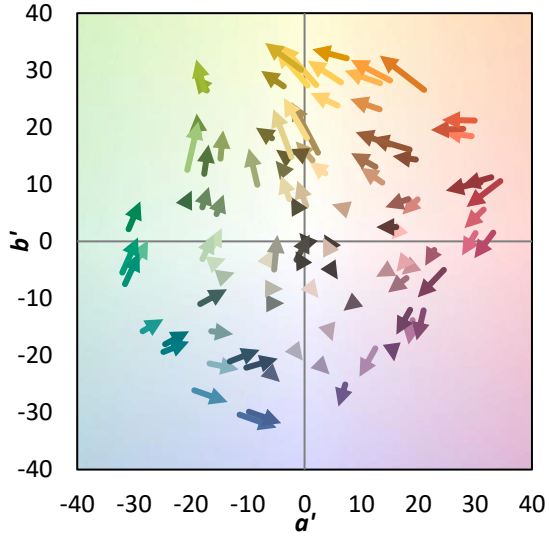


Color Vector Graphics







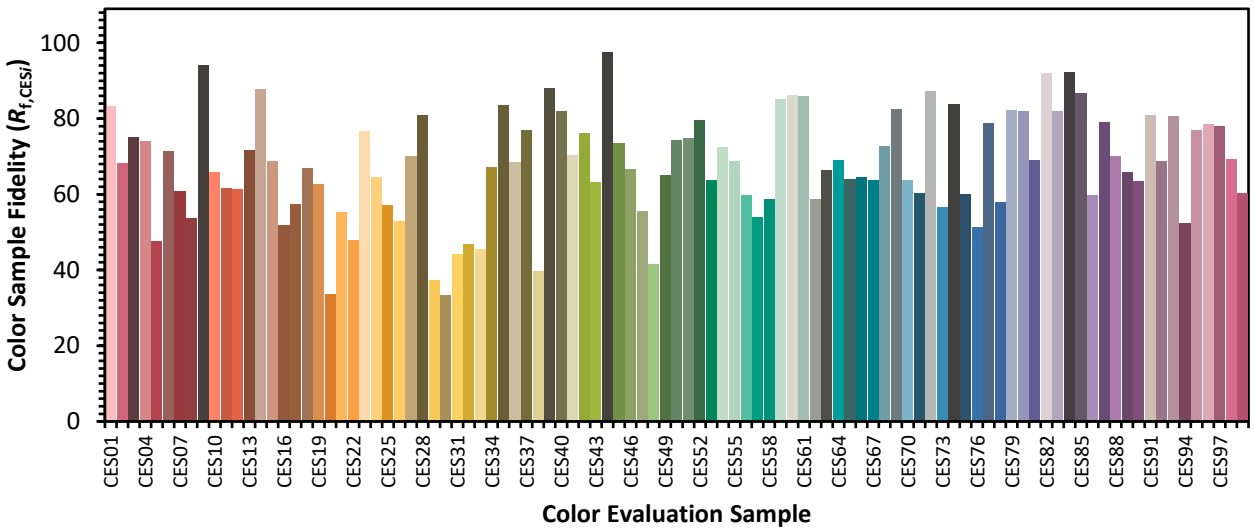


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Individual Sample Fidelity Index ($R_{f,i}$)

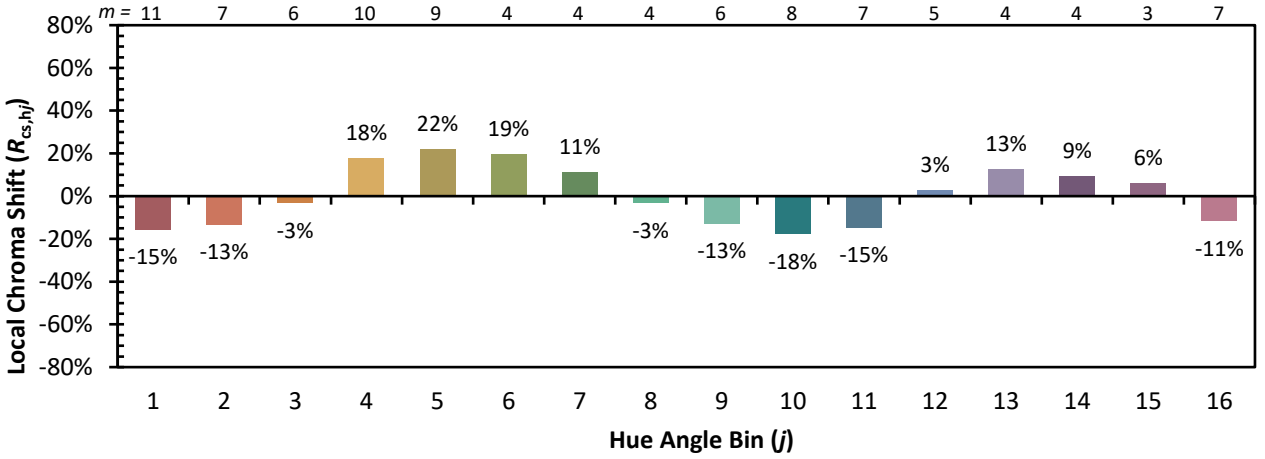
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	

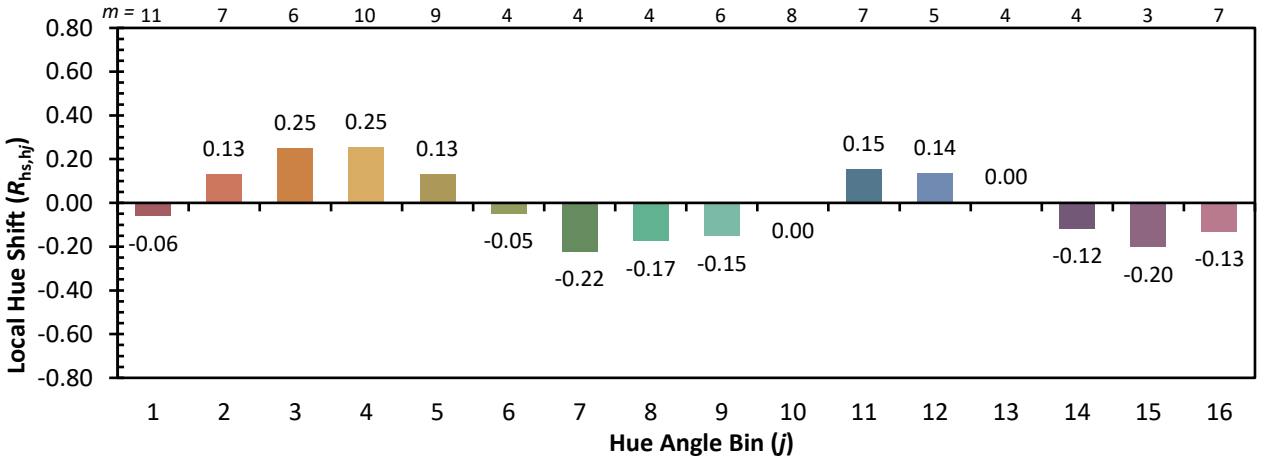


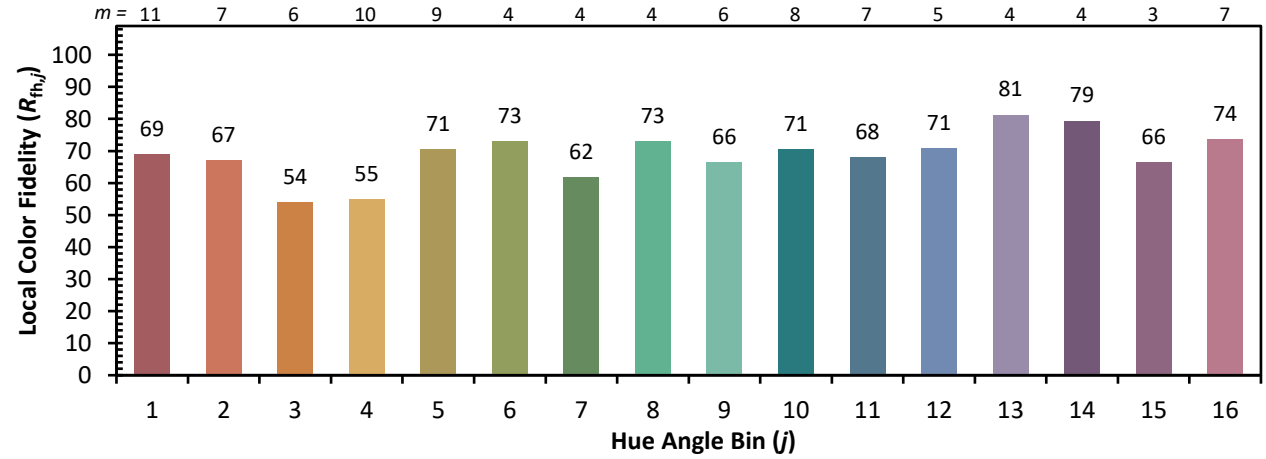
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Color Rendition by Hue-Angle Bin



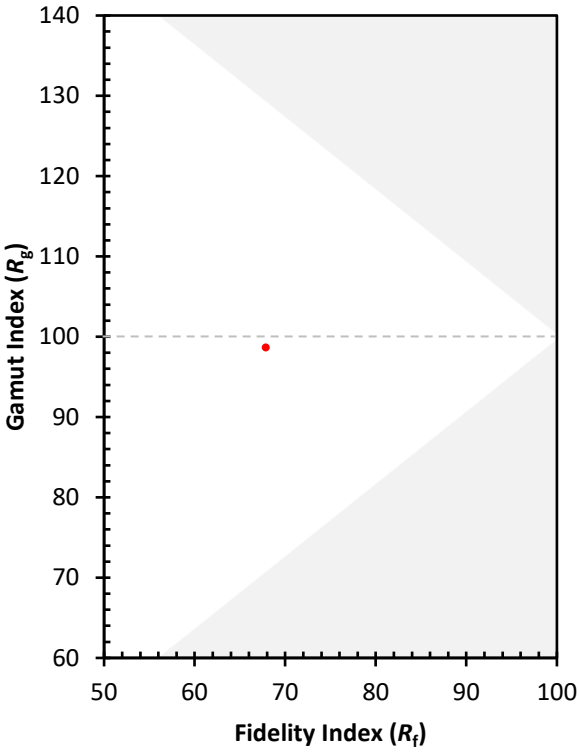


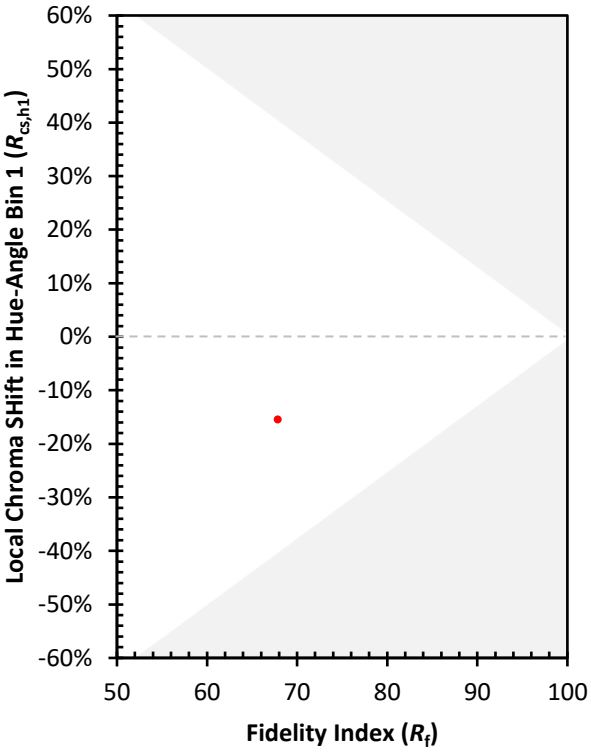


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Measure Comparisons





(END OF REPORT)