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: P1501770

Luminaire Tested: GSS-SB4B-727-U-T2LG-HSS

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:	P1501770
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-727-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16511.9 lumens
Efficiency:	N/A
Efficacy:	111.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

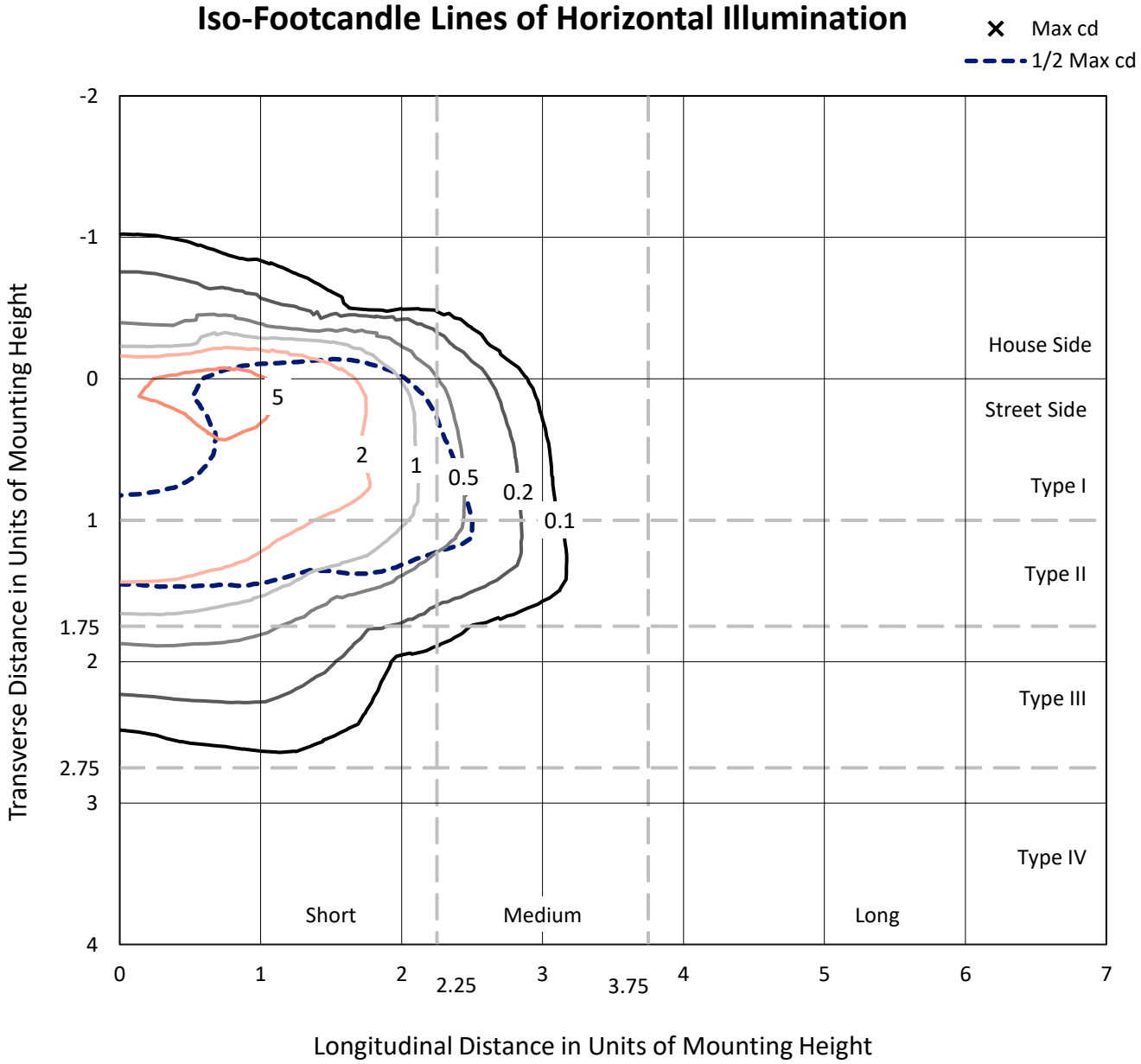
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



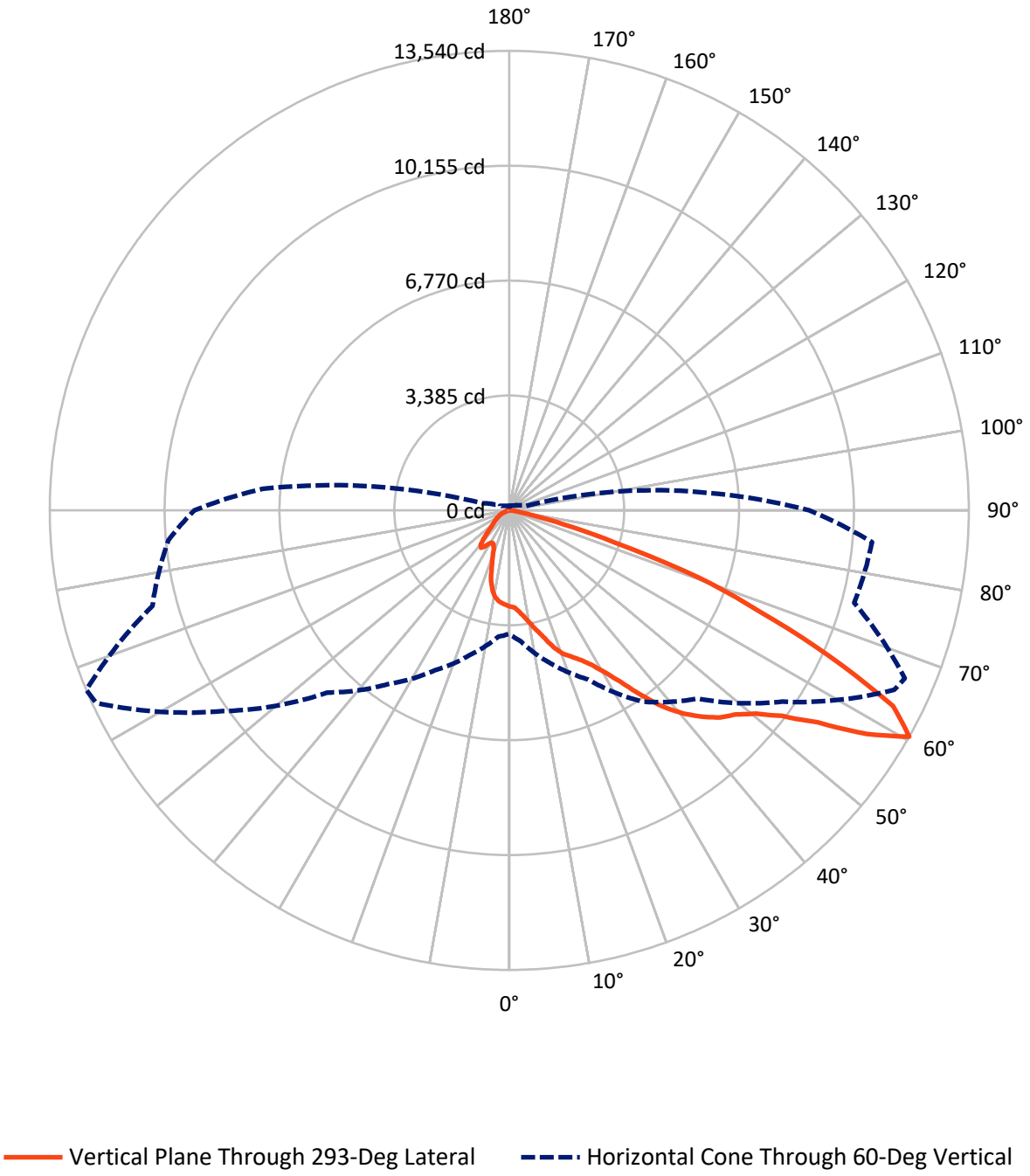
Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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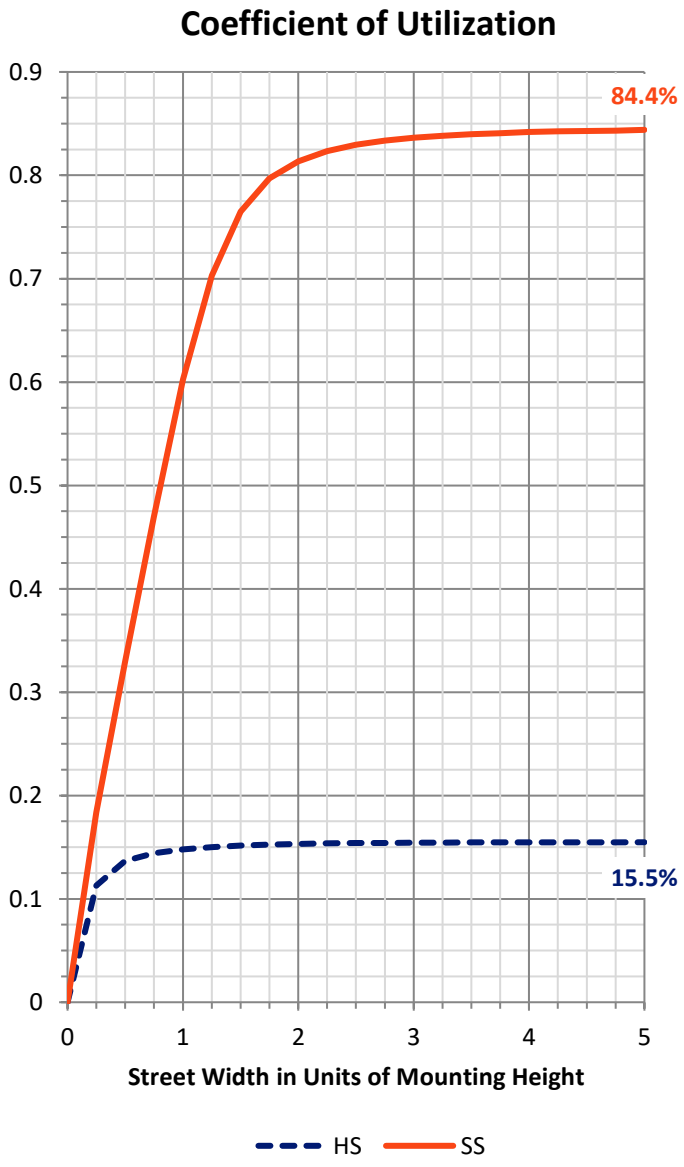
REPORT NUMBER: P1501770
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2576.2	0.0	2576.2
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	13935.6	0.0	13935.6
	% Fixture	84.4	0.0	84.4
Total	Lumens	16511.9	0.0	16511.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	1.6
10°-20°	645.4	3.9
20°-30°	1204.8	7.3
30°-40°	2389.2	14.5
40°-50°	3809.3	23.1
50°-60°	4551.1	27.6
60°-70°	2983.5	18.1
70°-80°	625.1	3.8
80°-90°	47.3	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°	16511.9	100.0
0°-180°	16511.9	100.0



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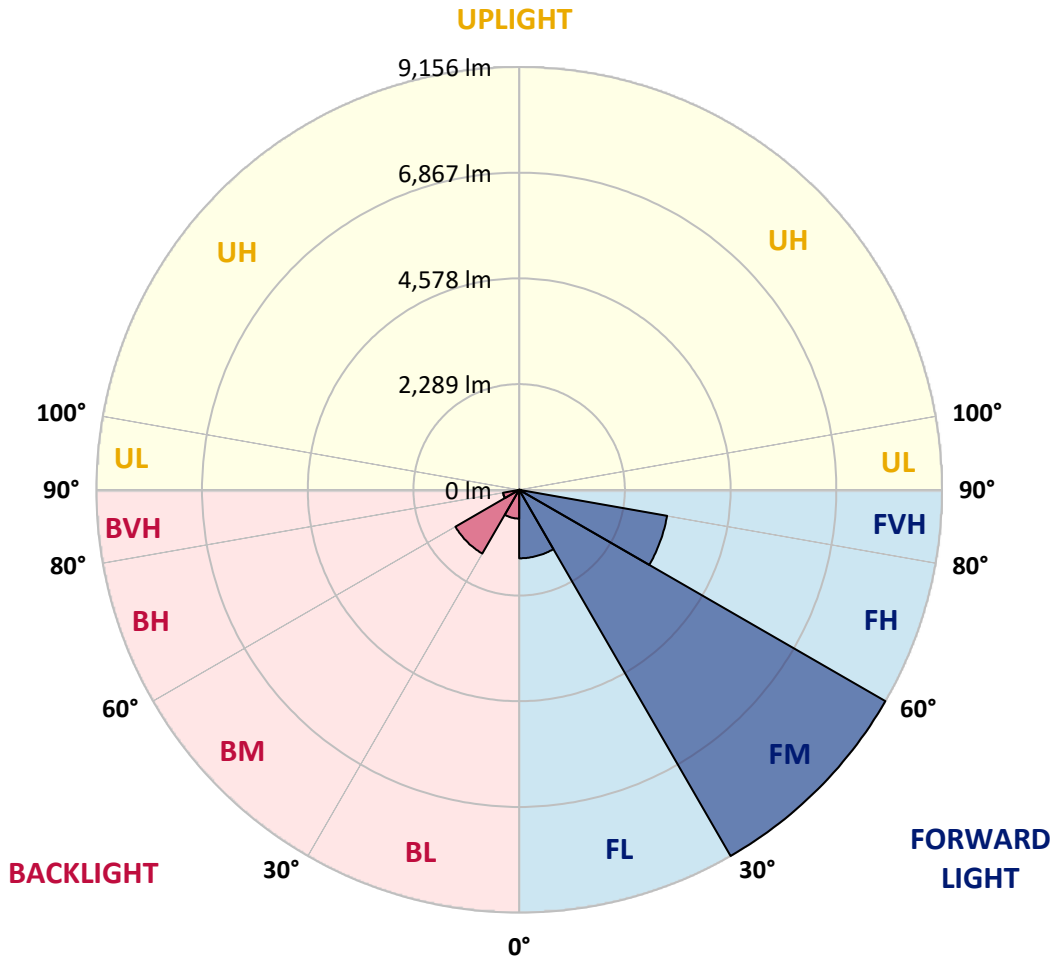
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1483.1	9.0			
FM	(30°-60°)	9156.5	55.5			
FH	(60°-80°)	3252.7	19.7			G2/5000
FVH	(80°-90°)	43.3	0.3			G1/100
BL	(0°-30°)	623.3	3.8	B2/1000		
BM	(30°-60°)	1593.1	9.6	B2/2500		
BH	(60°-80°)	355.9	2.2	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0
2.5°	2973.3	2964.1	2950.2	2954.8	2950.2	2931.7	2904.0	2880.8	2899.3	2871.6	2853.1
5°	3061.2	3061.2	3051.9	3051.9	3056.6	3047.3	3028.8	2996.4	3001.1	2977.9	2917.8
7.5°	3061.2	3047.3	3070.4	3093.5	3135.2	3158.3	3167.5	3149.0	3158.3	3112.0	3033.4
10°	2880.8	2871.6	2931.7	3019.6	3139.8	3246.1	3315.5	3320.1	3334.0	3287.8	3195.3
12.5°	2497.0	2478.5	2598.8	2765.2	3010.3	3255.4	3449.6	3523.6	3556.0	3537.5	3408.0
15°	2141.0	2164.1	2247.3	2427.7	2756.0	3130.5	3523.6	3768.7	3814.9	3838.0	3685.4
17.5°	2104.0	2108.6	2136.4	2224.2	2473.9	2927.1	3532.8	4023.0	4087.7	4189.5	3981.4
20°	2205.7	2196.5	2224.2	2252.0	2372.2	2746.7	3445.0	4268.1	4392.9	4610.3	4383.7
22.5°	2395.3	2395.3	2409.2	2427.7	2487.8	2732.9	3408.0	4494.7	4707.4	5151.3	4887.7
25°	2714.4	2677.4	2686.6	2663.5	2714.4	2899.3	3491.2	4675.0	4966.3	5752.4	5488.8
27.5°	3209.2	3223.0	3139.8	3014.9	3042.7	3199.9	3694.7	4878.5	5234.5	6376.7	6099.2
30°	3893.5	3870.4	3819.5	3574.5	3463.5	3602.2	4069.2	5211.4	5595.2	7167.4	6913.1
32.5°	4429.9	4494.7	4406.8	4235.7	4064.6	4106.2	4596.4	5747.8	6034.5	7893.4	7754.7
35°	5077.3	5077.3	5095.8	4855.3	4739.7	4730.5	5257.6	6330.4	6617.1	8550.0	8647.1
37.5°	5951.3	5891.1	5789.4	5521.2	5433.4	5549.0	5877.3	6931.6	7241.4	9081.8	9340.8
40°	6686.5	6728.1	6714.2	6325.8	6154.7	6279.6	6570.9	7444.9	7685.3	9424.0	9900.3
42.5°	7407.9	7431.0	7370.9	7185.9	6936.2	6945.5	7185.9	7833.3	8078.4	9752.3	10427.4
45°	7948.9	7944.3	7902.6	7856.4	7708.4	7555.8	7597.5	8263.3	8476.0	9858.7	10714.1
47.5°	8120.0	8157.0	8194.0	8323.4	8425.2	8184.7	7972.0	8494.5	8688.8	9840.2	10820.5
50°	7962.8	8041.4	8221.7	8415.9	8762.7	8744.2	8286.5	8744.2	8933.8	9941.9	10945.3
52.5°	7611.3	7689.9	7930.4	8281.8	8804.4	9063.3	8869.1	9165.0	9387.0	10200.8	11204.3
55°	6792.9	6825.2	7320.0	7782.4	8596.3	8924.6	9493.4	9877.2	10062.1	10515.3	11546.5
57.5°	5530.5	5609.1	6094.6	6848.3	8013.6	8559.3	9849.4	11093.3	11088.7	10815.9	11620.5
60°	*3639.2*	*3870.4*	*4661.1*	*5493.5*	*6885.3*	*7842.5*	*9826.3*	*12517.5*	*12660.9*	*10519.9*	*10728.0*
62.5°	2779.1	2876.2	3324.8	4018.4	5095.8	6501.5	9673.7	12943.0	13053.9	9724.6	9391.6
65°	2090.1	2210.3	2640.4	3260.0	3597.6	4406.8	8674.9	11250.5	11403.1	8679.5	7301.5
67.5°	1280.9	1378.0	1951.4	2677.4	2723.6	2737.5	5854.2	8522.3	8577.8	7000.9	4915.5
70°	855.5	952.6	1350.2	2057.7	2168.7	1576.8	3213.8	6450.7	6446.0	4790.6	2987.2
72.5°	494.8	541.0	855.5	1516.7	1706.3	1003.4	1604.6	4101.6	3921.3	2252.0	1396.5
75°	282.1	314.4	471.7	975.7	1197.7	638.1	633.5	2196.5	1942.1	1160.7	763.0
77.5°	171.1	185.0	259.0	638.1	721.4	430.0	351.4	1021.9	984.9	679.7	402.3
80°	83.2	97.1	157.2	374.6	462.4	231.2	212.7	402.3	430.0	374.6	212.7
82.5°	27.7	37.0	87.9	143.3	300.6	92.5	87.9	222.0	235.8	222.0	101.7
85°	13.9	18.5	41.6	46.2	115.6	46.2	32.4	97.1	120.2	74.0	41.6
87.5°	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0
2.5°	2839.2	2830.0	2811.5	2779.1	2774.5	2751.4	2714.4	2691.2	2672.8	2686.6	2691.2
5°	2890.1	2867.0	2811.5	2723.6	2631.1	2538.7	2450.8	2349.1	2279.7	2270.5	2252.0
7.5°	2982.6	2936.3	2816.1	2645.0	2409.2	2187.2	1928.3	1678.6	1553.7	1535.2	1493.6
10°	3130.5	3051.9	2853.1	2506.3	2053.1	1590.7	1197.7	929.5	776.9	749.1	758.4
12.5°	3306.3	3195.3	2857.7	2270.5	1563.0	984.9	679.7	578.0	545.6	531.8	531.8
15°	3532.8	3371.0	2853.1	1965.3	1054.3	633.5	545.6	504.0	490.2	480.9	480.9
17.5°	3819.5	3606.8	2820.7	1507.5	712.1	550.3	499.4	467.0	448.5	443.9	443.9
20°	4157.1	3870.4	2746.7	1123.7	596.5	513.3	471.7	430.0	416.2	406.9	406.9
22.5°	4587.1	4189.5	2603.4	874.0	564.1	490.2	443.9	397.7	383.8	374.6	374.6
25°	5086.5	4596.4	2413.8	786.1	559.5	471.7	416.2	369.9	356.1	351.4	346.8
27.5°	5678.4	5031.1	2238.1	790.7	568.8	457.8	388.4	346.8	332.9	319.1	323.7
30°	6376.7	5479.6	2094.7	846.2	578.0	443.9	369.9	332.9	319.1	300.6	300.6
32.5°	7065.7	6006.8	2080.9	947.9	610.4	434.7	351.4	314.4	300.6	286.7	286.7
35°	7773.2	6487.7	2159.5	1082.0	675.1	420.8	328.3	295.9	282.1	272.8	268.2
37.5°	8448.3	6871.5	2233.5	1165.3	638.1	360.7	300.6	272.8	259.0	240.5	240.5
40°	8896.8	7079.6	2247.3	1100.5	527.2	323.7	272.8	245.1	226.6	217.3	212.7
42.5°	9225.2	7213.7	2090.1	892.5	457.8	295.9	249.7	222.0	208.1	198.8	198.8
45°	9359.3	7167.4	1821.9	679.7	420.8	272.8	226.6	203.5	194.2	185.0	185.0
47.5°	9340.8	6954.7	1549.1	545.6	383.8	249.7	212.7	194.2	185.0	175.7	171.1
50°	9308.4	6755.9	1271.6	485.5	342.2	235.8	198.8	185.0	171.1	161.8	157.2
52.5°	9521.1	6691.1	1054.3	443.9	319.1	226.6	194.2	175.7	161.8	152.6	152.6
55°	9733.8	6718.9	827.7	416.2	295.9	222.0	189.6	171.1	157.2	143.3	143.3
57.5°	9719.9	6598.6	628.9	388.4	277.4	217.3	185.0	166.5	143.3	134.1	134.1
60°	*8836.7*	*5886.5*	*490.2*	*356.1*	*254.3*	*203.5*	*171.1*	*157.2*	*134.1*	*120.2*	*120.2*
62.5°	7472.6	4628.8	402.3	314.4	226.6	185.0	157.2	143.3	120.2	97.1	97.1
65°	5521.2	3338.6	323.7	272.8	208.1	161.8	143.3	124.9	97.1	78.6	74.0
67.5°	3736.3	2053.1	259.0	226.6	185.0	138.7	120.2	106.4	87.9	64.7	60.1
70°	2215.0	1091.3	189.6	157.2	138.7	101.7	101.7	92.5	74.0	55.5	50.9
72.5°	1054.3	379.2	138.7	115.6	106.4	74.0	78.6	78.6	60.1	41.6	37.0
75°	536.4	185.0	92.5	83.2	69.4	55.5	64.7	60.1	41.6	27.7	27.7
77.5°	305.2	129.5	64.7	55.5	46.2	37.0	41.6	37.0	23.1	13.9	13.9
80°	171.1	92.5	41.6	37.0	27.7	23.1	23.1	18.5	13.9	4.6	4.6
82.5°	64.7	55.5	27.7	18.5	13.9	13.9	9.2	9.2	4.6	0.0	0.0
85°	27.7	13.9	13.9	9.2	9.2	4.6	4.6	4.6	0.0	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0
2.5°	2654.3	2663.5	2672.8	2709.7	2719.0	2746.7	2769.9	2797.6	2802.2	2839.2	2839.2
5°	2288.9	2284.3	2362.9	2478.5	2552.5	2654.3	2732.9	2816.1	2862.3	2922.5	2950.2
7.5°	1516.7	1632.3	1808.0	2011.5	2275.1	2520.2	2705.1	2867.0	2977.9	3047.3	3075.1
10°	753.7	818.5	1003.4	1336.4	1784.9	2284.3	2677.4	2977.9	3158.3	3236.9	3287.8
12.5°	531.8	545.6	578.0	758.4	1188.4	1895.9	2589.5	3098.2	3347.9	3495.8	3560.6
15°	476.3	485.5	499.4	550.3	735.2	1415.0	2432.3	3232.3	3643.8	3814.9	3898.1
17.5°	439.3	443.9	457.8	499.4	578.0	961.8	2178.0	3375.6	3999.9	4208.0	4365.2
20°	406.9	406.9	420.8	471.7	536.4	739.9	1812.7	3537.5	4453.0	4753.6	4910.8
22.5°	369.9	379.2	388.4	443.9	522.5	675.1	1470.5	3662.3	4957.1	5322.4	5507.3
25°	342.2	351.4	360.7	416.2	508.7	675.1	1271.6	3740.9	5521.2	5955.9	6210.2
27.5°	319.1	328.3	342.2	397.7	494.8	702.9	1193.0	3764.0	6136.2	6700.4	7042.6
30°	300.6	309.8	323.7	383.8	504.0	735.2	1220.8	3731.7	6760.5	7468.0	7874.9
32.5°	282.1	291.3	305.2	369.9	504.0	776.9	1313.3	3666.9	7366.2	8235.6	8735.0
35°	268.2	272.8	277.4	332.9	457.8	772.2	1428.9	3602.2	7976.6	8993.9	9576.6
37.5°	240.5	245.1	254.3	286.7	365.3	702.9	1452.0	3523.6	8457.5	9632.1	10274.8
40°	212.7	222.0	231.2	263.6	305.2	568.8	1350.2	3357.1	8711.9	10122.2	10903.7
42.5°	194.2	198.8	208.1	240.5	282.1	453.2	1132.9	3065.8	8938.5	10455.2	11361.5
45°	180.3	185.0	194.2	217.3	263.6	393.1	892.5	2709.7	8957.0	10561.5	11583.5
47.5°	166.5	171.1	175.7	198.8	254.3	351.4	684.4	2386.1	8952.3	10700.3	11773.1
50°	157.2	161.8	171.1	189.6	240.5	314.4	564.1	2122.5	9146.5	11000.8	12156.9
52.5°	152.6	152.6	166.5	185.0	226.6	286.7	471.7	1886.6	9248.3	11296.8	12434.3
55°	143.3	148.0	157.2	175.7	212.7	272.8	402.3	1590.7	9294.5	11444.7	12485.2
57.5°	134.1	138.7	152.6	166.5	203.5	259.0	346.8	1188.4	8633.3	10672.5	11634.3
60°	*120.2*	*129.5*	*148.0*	*161.8*	*189.6*	*235.8*	*305.2*	*804.6*	*7283.0*	*9276.0*	*10080.6*
62.5°	97.1	115.6	134.1	143.3	171.1	198.8	259.0	536.4	5817.2	7676.1	8591.6
65°	74.0	97.1	111.0	124.9	143.3	166.5	217.3	365.3	3879.7	5165.2	6196.3
67.5°	64.7	83.2	92.5	101.7	120.2	143.3	175.7	254.3	2353.7	3102.8	4120.1
70°	50.9	69.4	78.6	74.0	92.5	111.0	124.9	171.1	1202.3	1683.2	2344.4
72.5°	37.0	55.5	60.1	60.1	55.5	78.6	92.5	120.2	522.5	818.5	1063.6
75°	27.7	37.0	41.6	37.0	32.4	50.9	64.7	78.6	342.2	490.2	619.6
77.5°	13.9	13.9	23.1	23.1	13.9	27.7	32.4	46.2	194.2	286.7	356.1
80°	4.6	0.0	0.0	4.6	0.0	9.2	13.9	23.1	101.7	152.6	222.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	50.9	46.2	115.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	27.7
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: P1501770
CATALOG NUMBER: GSS-SB4B-727-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2830.0	*2830.0*	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0	2830.0
2.5°	2862.3	*2862.3*	2880.8	2908.6	2922.5	2931.7	2936.3	2945.6	2982.6	2973.3
5°	2982.6	*2991.8*	3005.7	3033.4	3065.8	3056.6	3056.6	3056.6	3079.7	3061.2
7.5°	3139.8	*3167.5*	3172.2	3204.5	3181.4	3135.2	3107.4	3065.8	3061.2	3061.2
10°	3394.1	*3384.9*	3384.9	3343.3	3260.0	3125.9	3005.7	2922.5	2876.2	2880.8
12.5°	3666.9	*3629.9*	3634.6	3482.0	3246.1	2950.2	2705.1	2524.8	2510.9	2497.0
15°	4004.5	*3907.4*	3888.9	3537.5	3038.1	2584.9	2344.4	2201.1	2154.8	2141.0
17.5°	4485.4	*4240.3*	4152.5	3440.4	2765.2	2358.3	2178.0	2113.2	2108.6	2104.0
20°	4994.1	*4508.5*	4342.1	3297.0	2672.8	2362.9	2228.8	2210.3	2201.1	2205.7
22.5°	5586.0	*4679.6*	4466.9	3320.1	2756.0	2515.5	2409.2	2395.3	2386.1	2395.3
25°	6196.3	*4878.5*	4614.9	3505.1	3005.7	2797.6	2672.8	2645.0	2672.8	2714.4
27.5°	6811.4	*5146.7*	4906.2	3870.4	3408.0	3181.4	3061.2	3162.9	3204.5	3209.2
30°	7357.0	*5521.2*	5299.3	4383.7	3865.8	3639.2	3662.3	3791.8	3842.7	3893.5
32.5°	7856.4	*6020.6*	5849.5	4966.3	4457.7	4323.6	4309.7	4406.8	4462.3	4429.9
35°	8360.4	*6672.6*	6506.2	5599.8	5183.7	5072.7	4957.1	5146.7	5128.2	5077.3
37.5°	8836.7	*7329.3*	7176.7	6279.6	5849.5	5655.3	5636.8	5807.9	5960.5	5951.3
40°	9178.9	*7861.0*	7676.1	6954.7	6547.8	6381.3	6478.4	6774.4	6737.4	6686.5
42.5°	9493.4	*8314.2*	8147.7	7546.6	7121.2	7195.2	7283.0	7481.9	7458.7	7407.9
45°	9641.3	*8702.6*	8559.3	7995.1	7787.0	8022.9	8018.3	8092.2	7967.4	7948.9
47.5°	9849.4	*8980.1*	8832.1	8397.4	8582.4	8679.5	8406.7	8328.1	8212.5	8120.0
50°	10233.2	*9410.1*	9262.1	9007.8	9165.0	8864.5	8531.5	8360.4	8124.6	7962.8
52.5°	10681.8	*10062.1*	9932.6	9830.9	9391.6	8772.0	8346.6	8036.7	7750.1	7611.3
55°	11245.9	*11023.9*	10931.5	10371.9	9188.2	8392.8	7893.4	7315.4	6922.3	6792.9
57.5°	11430.9	*12434.3*	12401.9	10459.8	8619.4	7703.8	6802.1	6020.6	5613.7	5530.5
60°	*10885.2*	*13539.5*	*13423.9*	*10311.8*	*7588.2*	*6251.8*	*5197.5*	*4397.6*	*3736.3*	*3639.2*
62.5°	10187.0	*12693.3*	12651.6	9567.3	5780.2	4480.8	3884.3	3135.2	2853.1	2779.1
65°	8725.7	*10385.8*	10404.3	7676.1	3657.7	3218.4	3190.7	2492.4	2145.6	2090.1
67.5°	6718.9	*7967.4*	7837.9	4827.6	2131.7	2575.6	2547.9	1821.9	1317.9	1280.9
70°	3925.9	*5932.8*	5724.7	2510.9	1410.4	2150.2	1960.6	1280.9	897.1	855.5
72.5°	1734.1	*3264.6*	3505.1	1105.2	994.2	1710.9	1415.0	786.1	504.0	494.8
75°	961.8	*1618.4*	1692.4	480.9	698.2	1216.1	855.5	439.3	286.7	282.1
77.5°	578.0	*716.7*	698.2	309.8	522.5	776.9	517.9	249.7	180.3	171.1
80°	323.7	*328.3*	277.4	226.6	309.8	434.7	291.3	157.2	83.2	83.2
82.5°	198.8	*180.3*	143.3	69.4	83.2	263.6	106.4	87.9	27.7	27.7
85°	83.2	*55.5*	37.0	13.9	32.4	69.4	37.0	41.6	13.9	13.9
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: SP1-2407-184-3

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

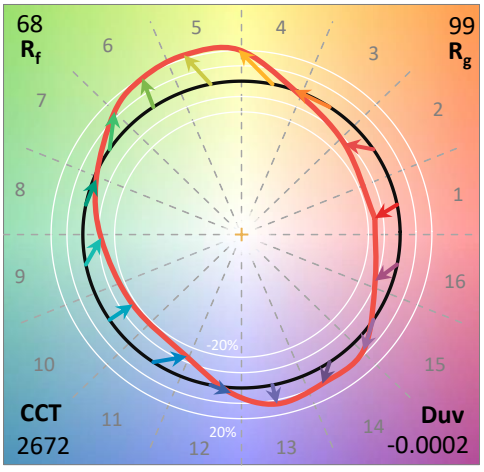
Test Information

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

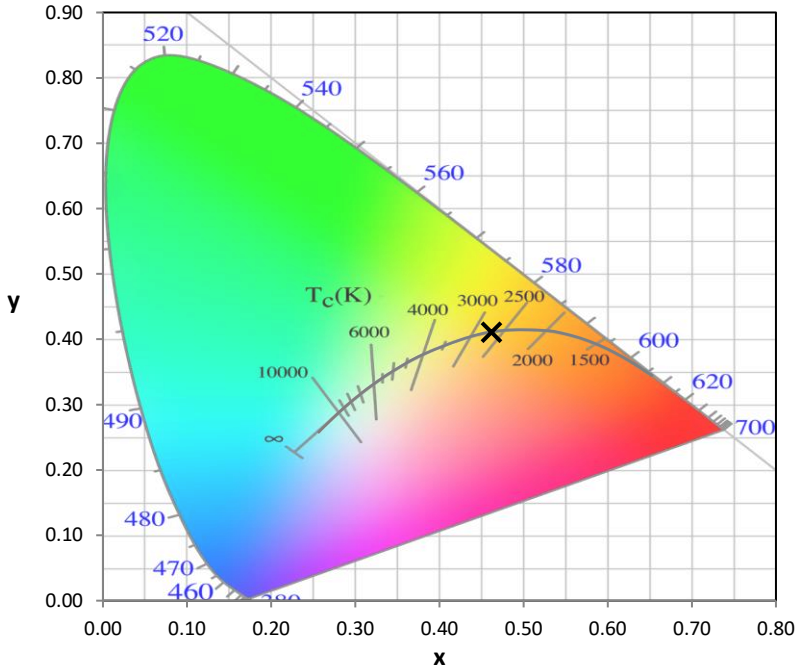
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

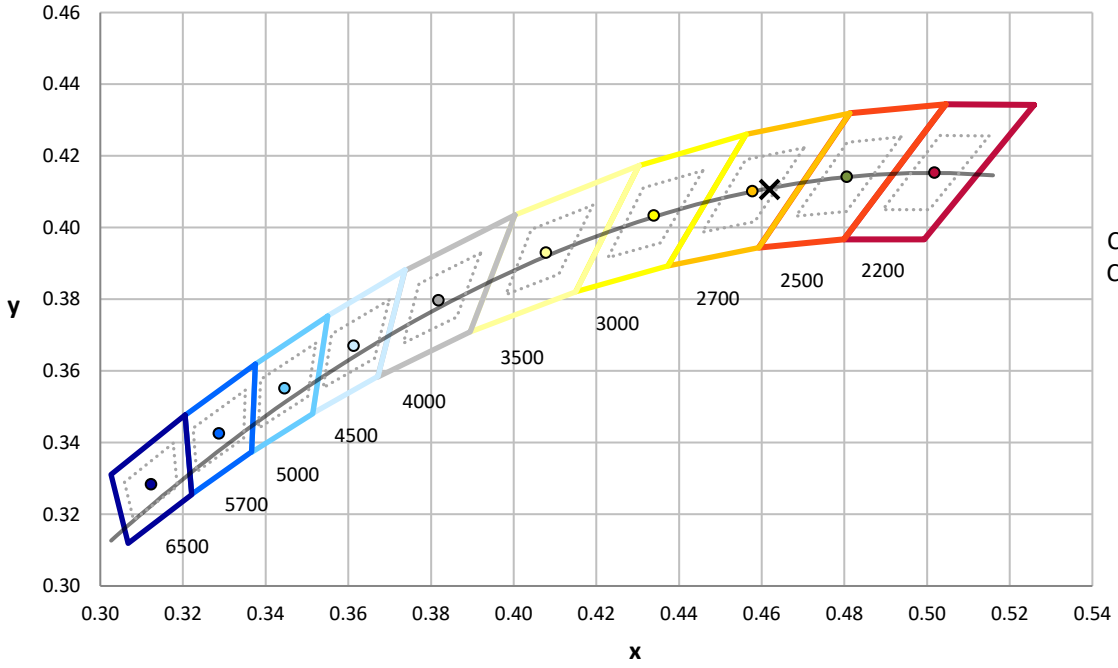
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

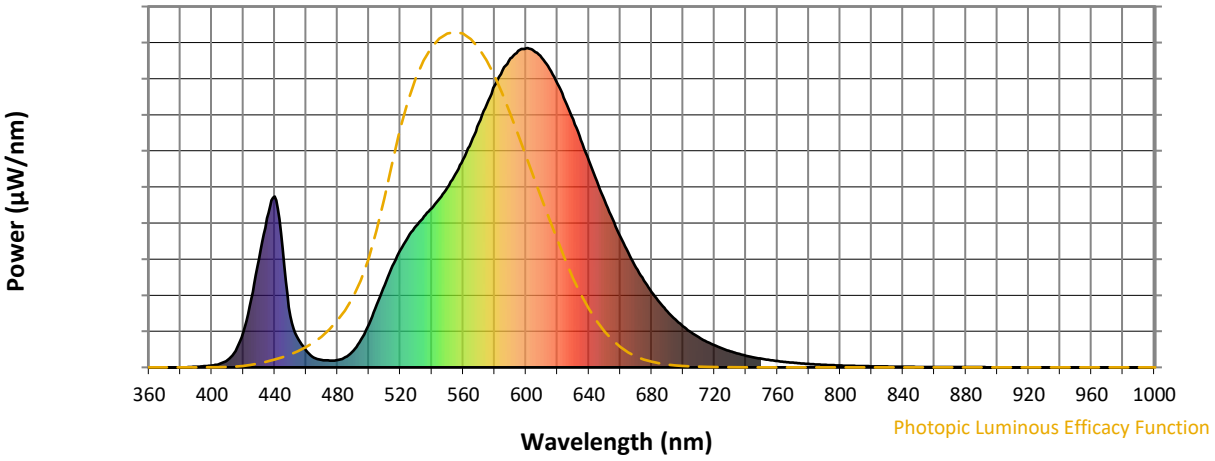


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

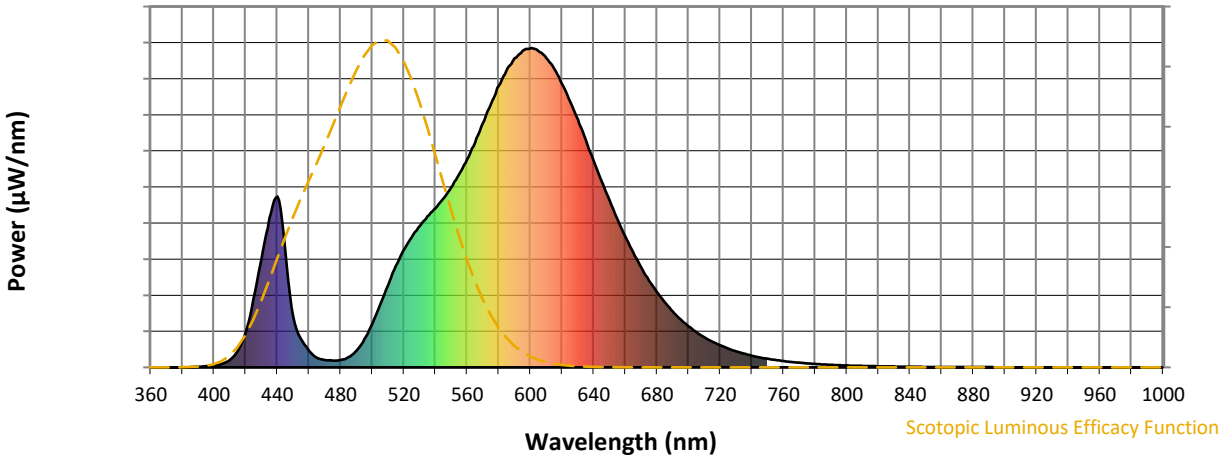


Photopic Lumens: NR

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

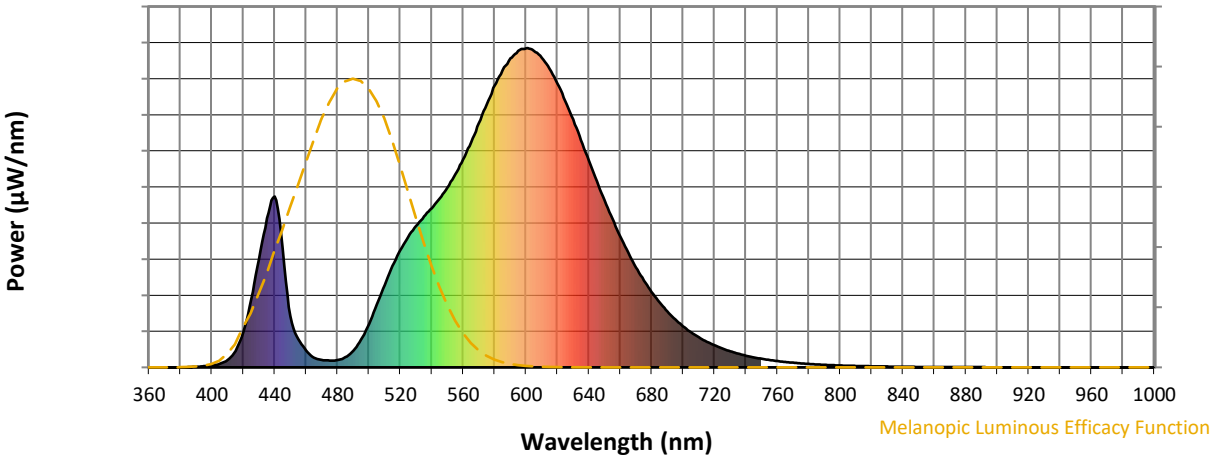


Scotopic Lumens: NR **S/P: 1.02**

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			

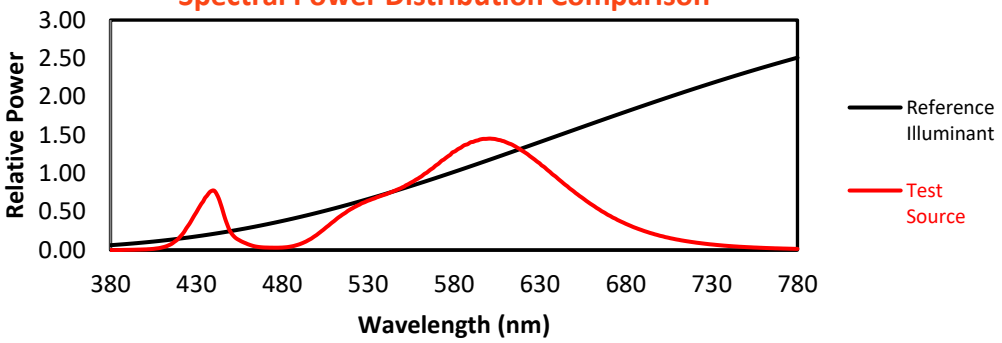
REPORT NUMBER: SP1-2407-184-3

TM-30-18

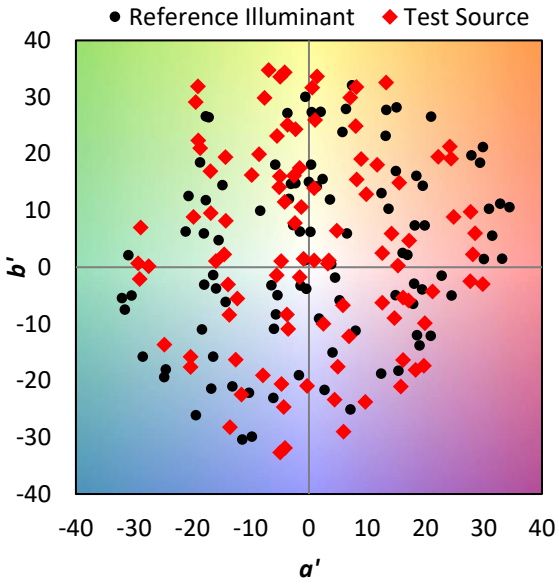
Summary

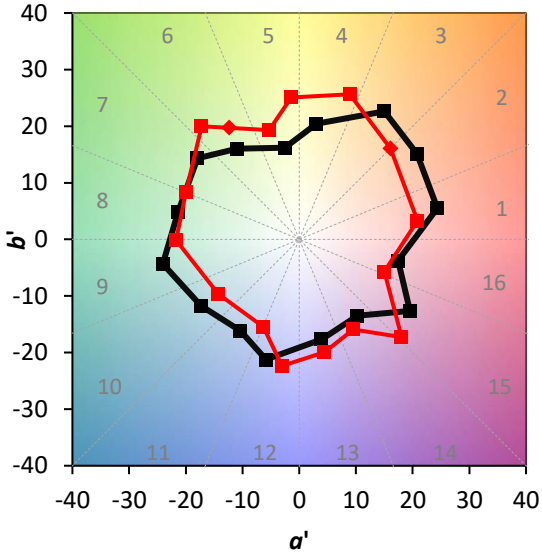
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

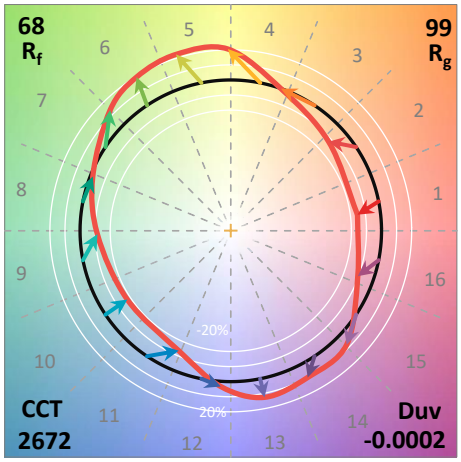
Spectral Power Distribution Comparison

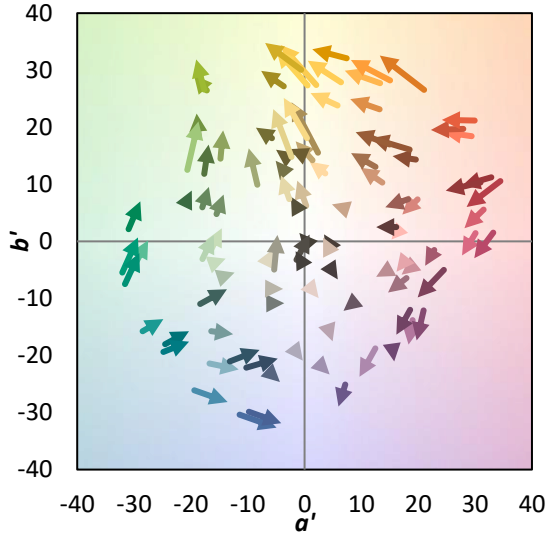


Color Vector Graphics







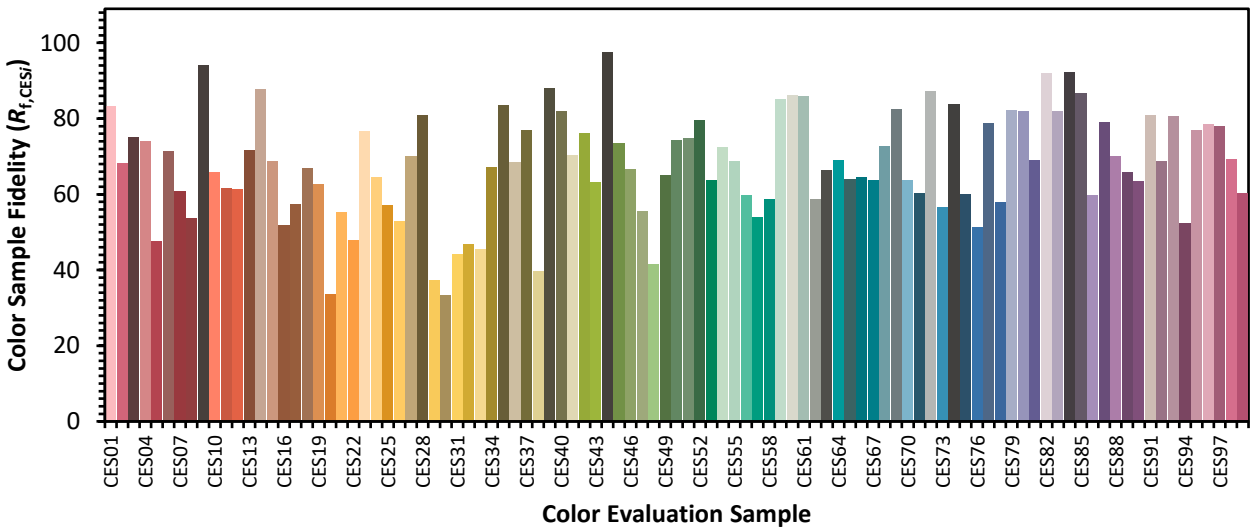


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Individual Sample Fidelity Index ($R_{f,i}$)

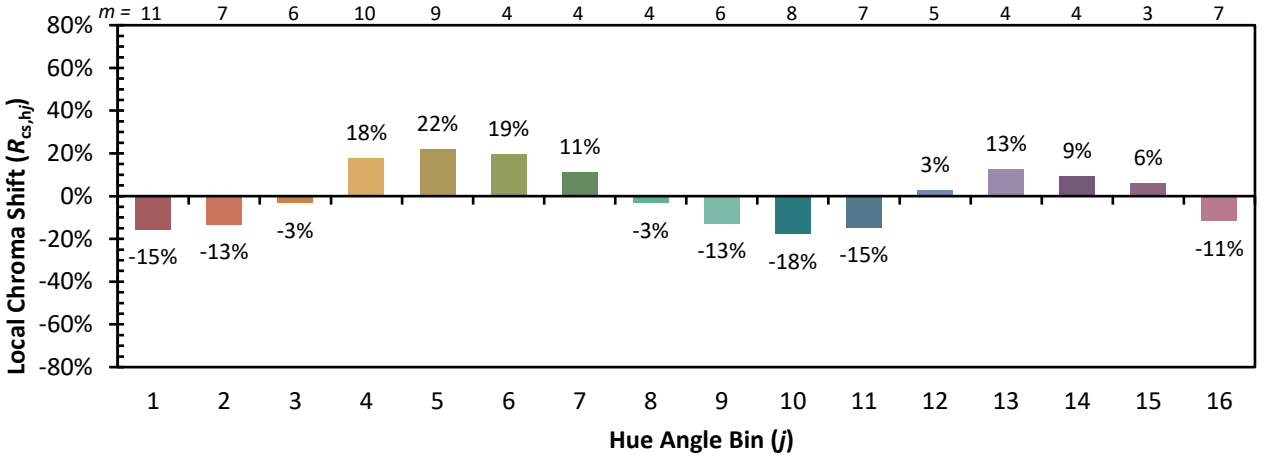
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CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 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	

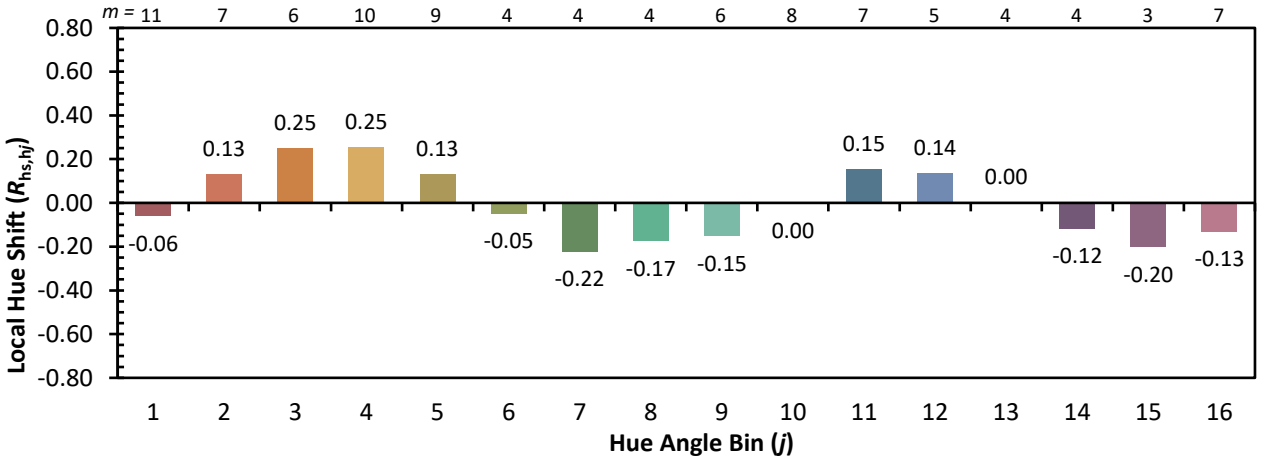


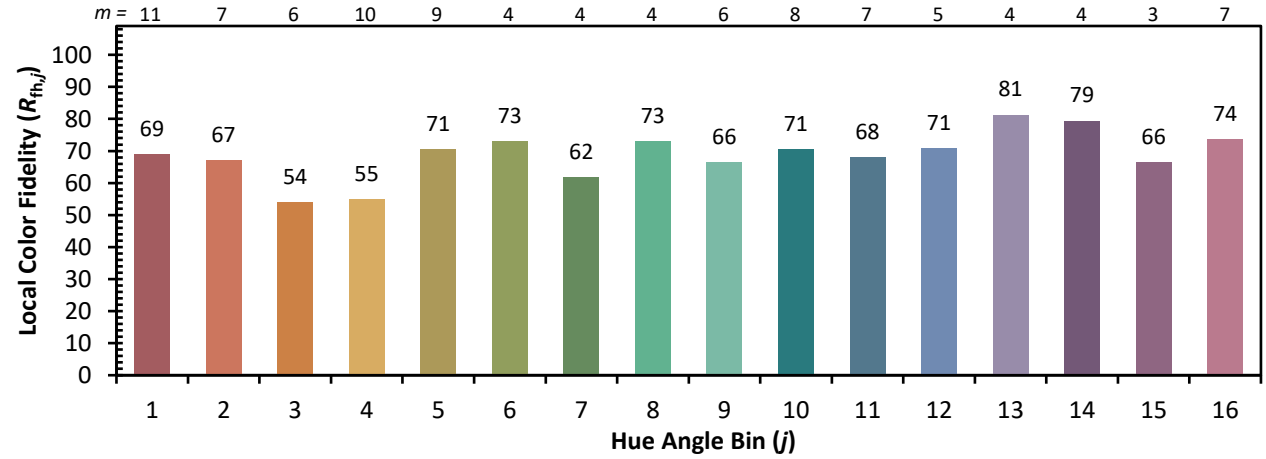
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Color Rendition by Hue-Angle Bin



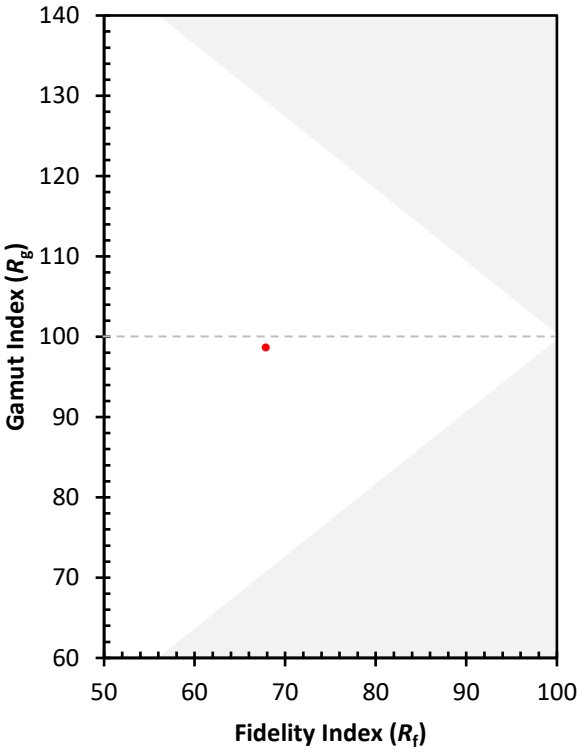


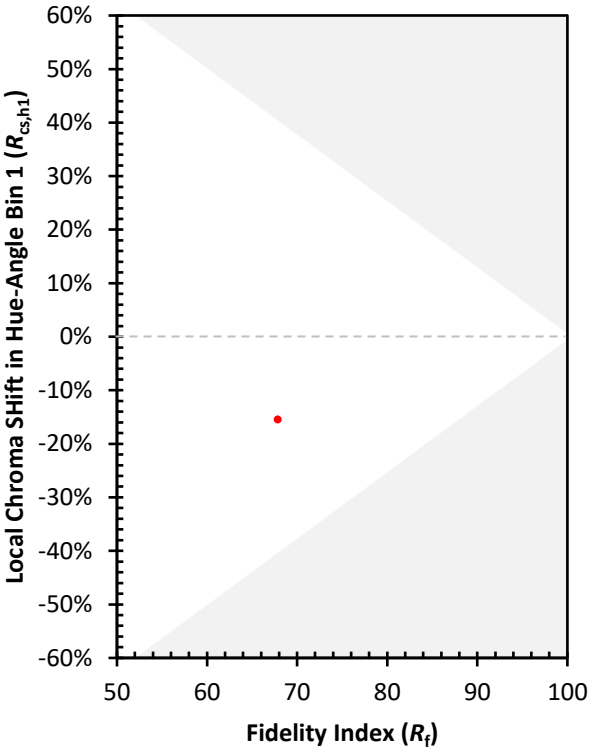


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Measure Comparisons





(END OF REPORT)