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: P1501386

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

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501386
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
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 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:	20287.5 lumens
Efficiency:	N/A
Efficacy:	137.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

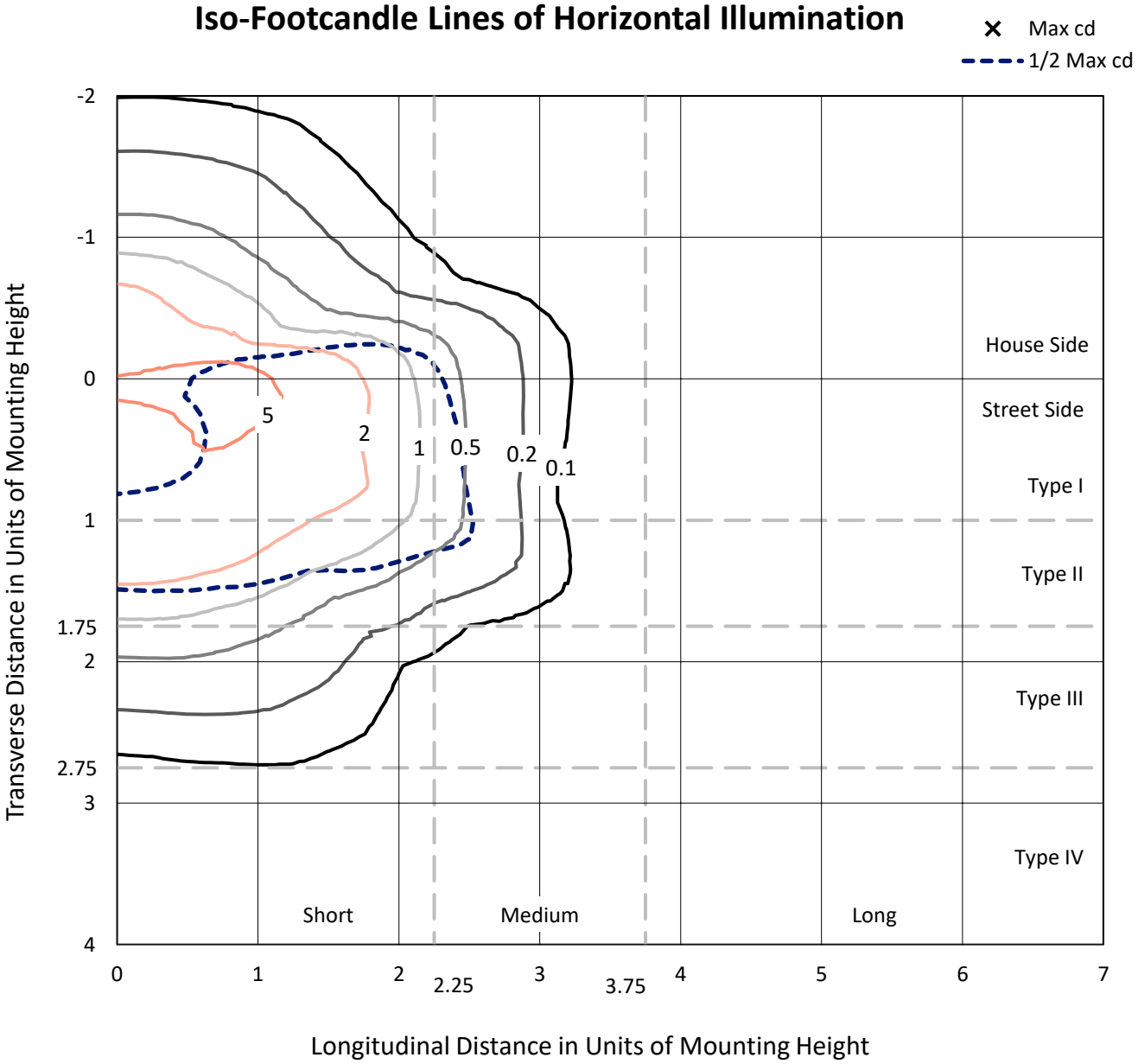
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



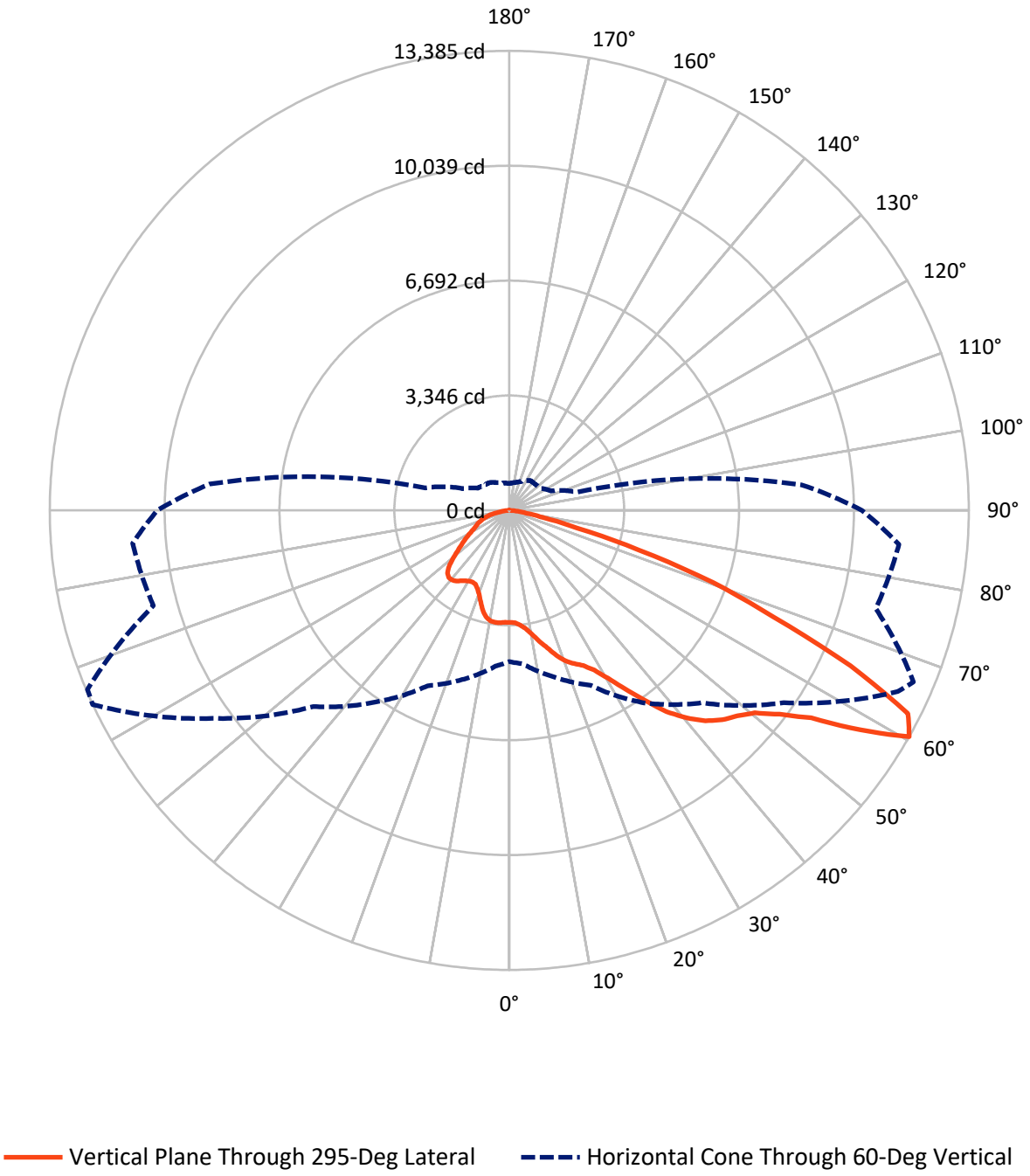
Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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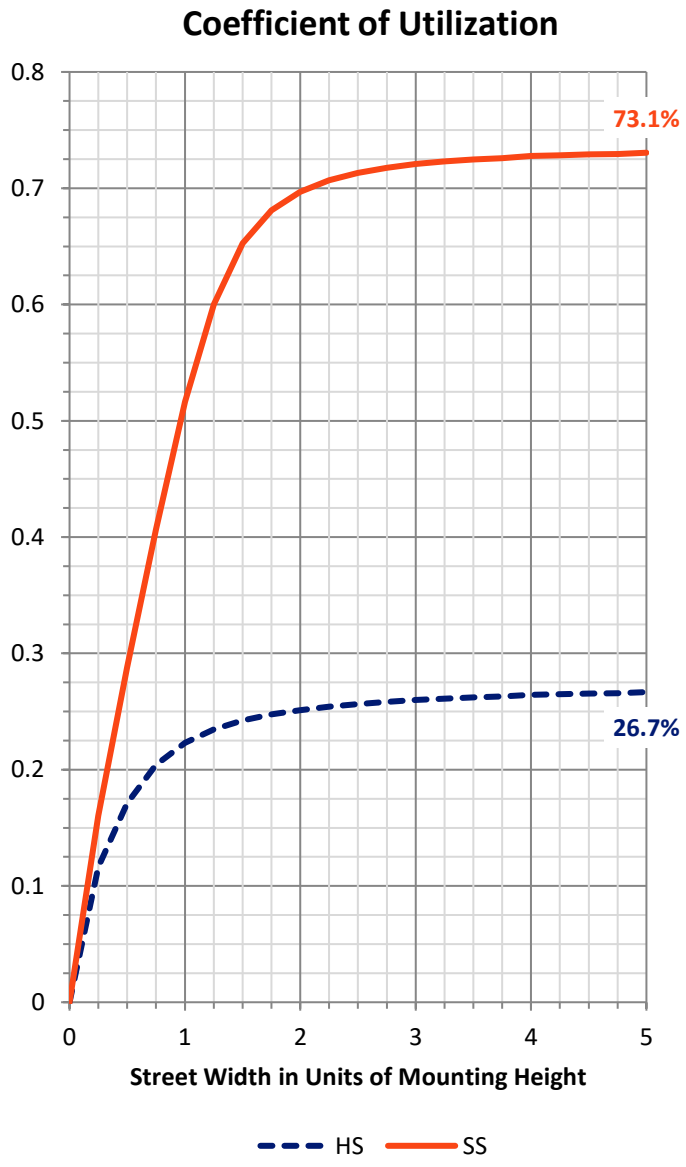
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5455.6	0.0	5455.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14831.9	0.0	14831.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	20287.5	0.0	20287.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	1.5
10°-20°	882.3	4.3
20°-30°	1671.1	8.2
30°-40°	2946.1	14.5
40°-50°	4357.0	21.5
50°-60°	5116.4	25.2
60°-70°	3707.0	18.3
70°-80°	1143.2	5.6
80°-90°	157.4	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°	20287.5	100.0
0°-180°	20287.5	100.0



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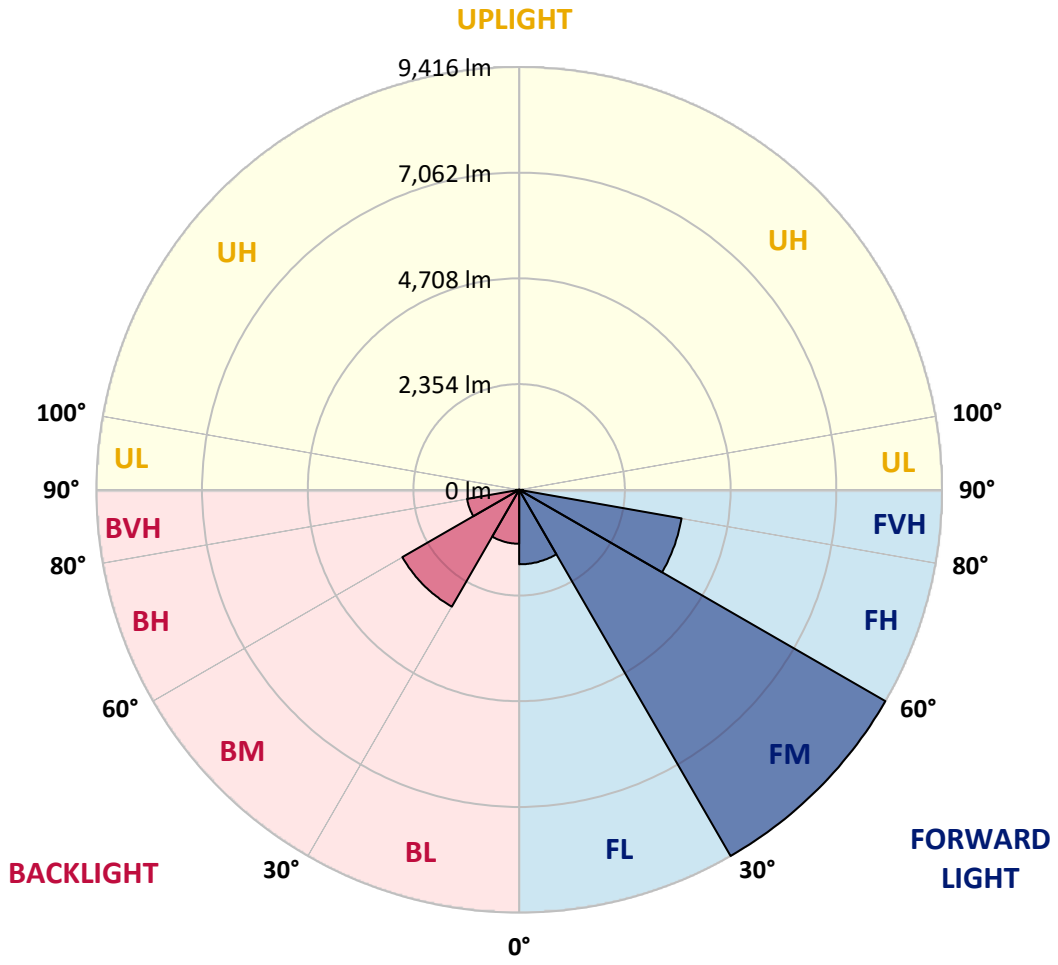
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1658.8	8.2			
FM	(30°-60°)	9415.5	46.4			
FH	(60°-80°)	3672.7	18.1			G2/5000
FVH	(80°-90°)	84.9	0.4			G1/100
BL	(0°-30°)	1201.5	5.9	B3/2500		
BM	(30°-60°)	3004.0	14.8	B3/5000		
BH	(60°-80°)	1177.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	72.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	3328.9	3338.1	3324.3	3333.5	3333.5	3319.6	3315.0	3296.5	3305.8	3301.1	3296.5
5°	3407.5	3412.1	3402.9	3416.7	3416.7	3421.4	3416.7	3393.6	3393.6	3393.6	3384.4
7.5°	3384.4	3384.4	3389.0	3435.2	3481.5	3541.6	3541.6	3532.3	3541.6	3536.9	3495.3
10°	3190.2	3208.7	3250.3	3365.9	3476.8	3606.3	3694.1	3721.9	3721.9	3726.5	3657.2
12.5°	2843.4	2857.3	2954.4	3130.1	3361.3	3597.0	3809.7	3948.4	3962.3	3985.4	3892.9
15°	2533.7	2542.9	2612.3	2792.6	3056.1	3472.2	3874.5	4161.1	4207.3	4304.4	4165.7
17.5°	2561.4	2556.8	2575.3	2644.6	2834.2	3268.8	3860.6	4410.8	4494.0	4665.1	4544.9
20°	2727.8	2727.8	2741.7	2755.6	2824.9	3120.8	3758.9	4614.2	4776.0	5108.9	4970.2
22.5°	2991.4	2991.4	2986.8	3009.9	3009.9	3185.6	3763.5	4766.8	5007.2	5603.6	5469.5
25°	3356.6	3338.1	3338.1	3347.4	3305.8	3430.6	3879.1	4924.0	5238.4	6190.8	6075.2
27.5°	3768.1	3782.0	3772.7	3740.4	3684.9	3782.0	4156.5	5169.0	5497.3	6810.3	6764.1
30°	4216.6	4221.2	4230.5	4212.0	4165.7	4235.1	4591.1	5538.9	5839.4	7457.6	7559.3
32.5°	4655.8	4720.5	4697.4	4651.2	4669.7	4794.5	5127.4	6038.2	6348.0	8058.7	8419.3
35°	5215.3	5238.4	5330.8	5159.8	5164.4	5377.1	5811.7	6694.8	6995.3	8682.8	9279.3
37.5°	6029.0	6070.6	6029.0	5760.8	5719.2	6015.1	6477.5	7342.0	7559.3	9154.4	10079.1
40°	6828.8	6879.7	6949.1	6634.7	6371.1	6616.2	7106.3	7836.8	8063.3	9413.4	10610.8
42.5°	7490.0	7573.2	7499.2	7406.8	7166.4	7212.6	7545.5	8220.5	8447.1	9741.6	11147.1
45°	8049.4	8063.3	8095.7	8030.9	7910.7	7869.1	7920.0	8558.0	8807.7	9889.6	11410.7
47.5°	8280.6	8340.7	8368.5	8479.4	8604.2	8521.0	8239.0	8715.2	8941.8	9880.3	11493.9
50°	8155.8	8215.9	8363.8	8627.4	8927.9	9075.8	8613.5	8932.5	9186.8	10046.8	11665.0
52.5°	7827.5	7892.2	8132.7	8433.2	8937.1	9274.7	9140.6	9385.6	9630.7	10342.7	11951.6
55°	7032.3	7129.4	7466.9	7966.2	8659.7	9168.3	9695.4	10051.4	10319.6	10698.7	12247.5
57.5°	5876.4	5978.1	6357.3	7106.3	8146.5	8729.1	9857.2	11299.7	11419.9	11124.0	12275.3
60°	*4401.5*	*4484.8*	*5021.1*	*5622.1*	*6842.7*	*7924.6*	*9764.7*	*12483.3*	*12788.5*	*11050.1*	*11392.2*
62.5°	3486.1	3587.8	4064.0	4341.4	5215.3	6546.8	9441.1	12811.6	13075.1	10439.8	10162.4
65°	2723.2	2792.6	3236.4	3634.0	3846.7	4470.9	8091.0	11207.3	11443.1	9445.7	8386.9
67.5°	1798.5	1904.9	2431.9	2977.5	3088.5	2843.4	5566.6	8622.7	8733.7	7508.5	6306.4
70°	1289.9	1340.8	1733.8	2316.4	2482.8	1904.9	3033.0	6528.3	6560.7	5039.6	4249.0
72.5°	878.5	887.7	1179.0	1775.4	1978.8	1382.4	1669.1	4299.8	4188.9	2487.4	2431.9
75°	596.4	605.7	753.6	1183.6	1400.9	961.7	1086.5	2344.1	2251.6	1373.2	1474.9
77.5°	402.2	411.5	517.8	795.2	933.9	665.8	795.2	1239.1	1216.0	910.8	790.6
80°	305.1	319.0	383.7	508.6	651.9	388.4	453.1	587.2	596.4	485.5	402.2
82.5°	171.1	189.6	231.2	258.9	420.7	217.3	217.3	351.4	337.5	300.5	217.3
85°	74.0	78.6	92.5	97.1	171.1	92.5	78.6	152.6	157.2	148.0	69.4
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	18.5	18.5	18.5	18.5
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°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	3273.4	3301.1	3273.4	3259.5	3259.5	3236.4	3227.2	3227.2	3194.8	3208.7	3199.4
5°	3347.4	3356.6	3324.3	3282.7	3227.2	3180.9	3116.2	3033.0	2982.1	2977.5	2982.1
7.5°	3463.0	3467.6	3379.7	3287.3	3148.6	2982.1	2783.3	2621.5	2478.2	2455.1	2482.8
10°	3624.8	3615.5	3486.1	3268.8	2977.5	2626.1	2321.0	2173.0	2089.8	2085.2	2080.6
12.5°	3842.1	3782.0	3583.2	3190.2	2681.6	2274.7	2117.5	2108.3	2131.4	2149.9	2154.5
15°	4091.8	4013.2	3661.8	3037.6	2381.1	2145.3	2154.5	2233.1	2260.9	2279.4	2279.4
17.5°	4401.5	4299.8	3749.6	2820.3	2228.5	2173.0	2237.8	2311.7	2358.0	2376.5	2371.8
20°	4813.0	4600.3	3819.0	2612.3	2186.9	2219.3	2274.7	2348.7	2394.9	2418.1	2418.1
22.5°	5224.5	4961.0	3832.8	2468.9	2186.9	2223.9	2274.7	2348.7	2399.6	2422.7	2418.1
25°	5783.9	5423.3	3837.5	2367.2	2191.5	2200.8	2247.0	2311.7	2385.7	2408.8	2418.1
27.5°	6380.4	5931.9	3860.6	2344.1	2173.0	2168.4	2200.8	2260.9	2334.8	2394.9	2399.6
30°	7120.1	6505.2	3869.8	2367.2	2177.6	2117.5	2140.7	2200.8	2279.4	2339.5	2358.0
32.5°	7846.0	7036.9	3851.3	2418.1	2186.9	2085.2	2089.8	2126.8	2210.0	2251.6	2284.0
35°	8613.5	7601.0	3819.0	2487.4	2191.5	2071.3	2029.7	2048.2	2103.7	2108.3	2122.2
37.5°	9214.5	8021.7	3721.9	2579.9	2200.8	2020.4	1937.2	1923.4	1900.2	1854.0	1863.3
40°	9709.3	8303.7	3560.1	2626.1	2177.6	1960.3	1821.6	1756.9	1669.1	1599.7	1613.6
42.5°	10065.3	8493.3	3365.9	2635.4	2140.7	1858.6	1687.6	1576.6	1479.5	1405.5	1410.2
45°	10222.5	8474.8	3157.8	2566.0	2052.8	1733.8	1562.7	1456.4	1350.0	1271.5	1262.2
47.5°	10227.1	8294.5	2871.2	2399.6	1904.9	1590.5	1447.1	1331.6	1243.7	1188.2	1183.6
50°	10264.1	8192.8	2603.0	2159.2	1710.7	1437.9	1345.4	1229.8	1179.0	1100.4	1077.3
52.5°	10495.2	8359.2	2418.1	1895.6	1530.4	1326.9	1257.6	1155.9	1072.6	1021.8	1017.2
55°	10869.7	8645.9	2316.4	1696.8	1359.3	1220.6	1174.4	1086.5	1012.5	961.7	947.8
57.5°	10916.0	8793.8	2196.1	1511.9	1220.6	1137.4	1118.9	1021.8	915.4	878.5	864.6
60°	*10268.7*	*8544.1*	*2048.2*	*1340.8*	*1118.9*	*1072.6*	*1063.4*	*933.9*	*846.1*	*799.9*	*781.4*
62.5°	9385.6	7920.0	1821.6	1183.6	1040.3	1007.9	970.9	869.2	758.2	707.4	693.5
65°	7670.3	6657.8	1548.9	1077.3	961.7	924.7	915.4	776.7	702.8	675.0	670.4
67.5°	5811.7	5349.3	1363.9	998.7	878.5	864.6	832.2	786.0	753.6	721.3	712.0
70°	4110.3	3860.6	1160.5	897.0	795.2	772.1	906.2	855.3	739.8	698.1	693.5
72.5°	2492.0	2422.7	1003.3	804.5	684.3	721.3	836.8	772.1	665.8	614.9	596.4
75°	1572.0	1437.9	841.5	684.3	545.6	587.2	730.5	688.9	573.3	522.5	508.6
77.5°	855.3	795.2	633.4	559.4	430.0	476.2	638.0	568.7	457.7	499.3	443.9
80°	374.5	416.1	420.7	323.6	286.7	351.4	457.7	443.9	351.4	356.0	295.9
82.5°	180.3	235.8	272.8	221.9	161.8	208.1	305.1	254.3	235.8	221.9	212.7
85°	55.5	87.8	120.2	106.3	74.0	87.8	143.3	138.7	166.4	143.3	134.1
87.5°	18.5	18.5	13.9	13.9	13.9	18.5	23.1	13.9	4.6	4.6	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°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	3194.8	3199.4	3199.4	3204.1	3204.1	3217.9	3236.4	3254.9	3241.0	3259.5	3264.2
5°	2972.9	2996.0	3014.5	3083.8	3139.3	3185.6	3236.4	3282.7	3296.5	3305.8	3328.9
7.5°	2450.4	2515.2	2635.4	2792.6	2968.3	3139.3	3254.9	3375.1	3393.6	3416.7	3449.1
10°	2085.2	2112.9	2196.1	2358.0	2672.4	3009.9	3291.9	3481.5	3560.1	3606.3	3638.7
12.5°	2145.3	2126.8	2112.9	2136.0	2339.5	2774.1	3268.8	3634.0	3782.0	3832.8	3874.5
15°	2288.6	2270.1	2219.3	2154.5	2177.6	2524.4	3190.2	3777.4	4013.2	4096.4	4184.2
17.5°	2371.8	2353.3	2311.7	2242.4	2182.3	2316.4	3042.2	3906.8	4378.4	4480.1	4605.0
20°	2418.1	2399.6	2358.0	2288.6	2219.3	2237.8	2852.7	4068.6	4794.5	4956.3	5141.3
22.5°	2427.3	2404.2	2358.0	2288.6	2247.0	2233.1	2672.4	4165.7	5243.0	5492.7	5705.3
25°	2422.7	2381.1	2321.0	2270.1	2247.0	2242.4	2547.5	4221.2	5728.5	6126.1	6366.5
27.5°	2390.3	2339.5	2279.4	2242.4	2233.1	2260.9	2492.0	4285.9	6297.1	6805.7	7189.5
30°	2353.3	2279.4	2205.4	2191.5	2214.6	2302.5	2538.3	4309.1	6893.6	7545.5	7938.5
32.5°	2256.2	2200.8	2126.8	2122.2	2177.6	2334.8	2644.6	4276.7	7420.6	8285.2	8779.9
35°	2117.5	2085.2	2043.6	2057.4	2145.3	2362.6	2718.6	4175.0	7901.5	8974.1	9552.1
37.5°	1872.5	1895.6	1918.7	1951.1	2062.1	2358.0	2751.0	4013.2	8299.1	9524.3	10264.1
40°	1599.7	1678.3	1752.3	1835.5	1983.5	2321.0	2760.2	3814.4	8530.3	9940.4	10897.5
42.5°	1428.6	1502.6	1595.1	1715.3	1877.1	2237.8	2751.0	3592.4	8604.2	10227.1	11299.7
45°	1271.5	1359.3	1474.9	1599.7	1784.7	2117.5	2667.7	3352.0	8641.2	10361.2	11470.8
47.5°	1188.2	1239.1	1345.4	1470.3	1664.4	1969.6	2505.9	3176.3	8585.8	10388.9	11678.8
50°	1091.1	1160.5	1229.8	1350.0	1539.6	1784.7	2311.7	3074.6	8678.2	10661.7	12007.1
52.5°	1017.2	1054.1	1128.1	1239.1	1377.8	1613.6	2126.8	2991.4	8932.5	10939.1	12349.2
55°	961.7	1003.3	1049.5	1142.0	1248.3	1442.5	1937.2	2866.5	9228.4	11235.0	12691.4
57.5°	873.8	901.6	966.3	1063.4	1132.7	1276.1	1715.3	2718.6	9205.3	11003.8	12099.6
60°	*795.2*	*823.0*	*892.3*	*989.4*	*1031.0*	*1128.1*	*1498.0*	*2529.0*	*8761.4*	*10250.2*	*11008.4*
62.5°	707.4	739.8	823.0	892.3	929.3	1003.3	1271.5	2182.3	7836.8	9117.5	9732.4
65°	670.4	688.9	744.4	827.6	823.0	892.3	1072.6	1715.3	6306.4	6967.5	7527.0
67.5°	712.0	739.8	730.5	753.6	739.8	776.7	961.7	1377.8	4956.3	5247.6	5571.3
70°	702.8	767.5	799.9	753.6	647.3	688.9	832.2	1100.4	3546.2	3518.4	3504.6
72.5°	614.9	679.6	772.1	818.4	633.4	573.3	721.3	952.4	2274.7	2265.5	2048.2
75°	522.5	568.7	679.6	739.8	545.6	462.3	619.5	809.1	1359.3	1377.8	1229.8
77.5°	480.8	457.7	568.7	651.9	443.9	356.0	499.3	610.3	749.0	758.2	702.8
80°	346.8	332.9	425.4	476.2	337.5	254.3	282.0	379.1	402.2	360.6	374.5
82.5°	221.9	226.5	254.3	305.1	208.1	138.7	194.2	254.3	217.3	175.7	208.1
85°	143.3	161.8	134.1	157.2	64.7	64.7	83.2	111.0	74.0	50.9	55.5
87.5°	0.0	0.0	9.2	18.5	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: P1501386
CATALOG NUMBER: GSS-SB4B-727-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3264.2	3264.2	*3264.2*	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	3278.0	3273.4	*3273.4*	3282.7	3305.8	3315.0	3328.9	3324.3	3338.1	3328.9
5°	3342.8	3347.4	*3361.3*	3365.9	3379.7	3398.2	3402.9	3398.2	3407.5	3407.5
7.5°	3472.2	3490.7	*3481.5*	3504.6	3486.1	3463.0	3426.0	3398.2	3375.1	3384.4
10°	3689.5	3680.3	*3675.6*	3634.0	3550.8	3430.6	3333.5	3227.2	3208.7	3190.2
12.5°	3929.9	3920.7	*3920.7*	3777.4	3541.6	3291.9	3070.0	2903.5	2848.0	2843.4
15°	4267.4	4207.3	*4151.9*	3851.3	3379.7	2954.4	2695.5	2566.0	2533.7	2533.7
17.5°	4688.2	4531.0	*4438.5*	3795.9	3116.2	2732.5	2579.9	2547.5	2538.3	2561.4
20°	5210.6	4813.0	*4678.9*	3671.0	3019.1	2760.2	2686.2	2690.9	2695.5	2727.8
22.5°	5783.9	5071.9	*4850.0*	3671.0	3116.2	2935.9	2898.9	2949.8	2963.6	2991.4
25°	6422.0	5303.1	*5002.6*	3865.2	3402.9	3268.8	3222.5	3273.4	3310.4	3356.6
27.5°	7138.6	5543.5	*5266.1*	4216.6	3772.7	3689.5	3638.7	3661.8	3712.6	3768.1
30°	7781.3	5945.8	*5668.4*	4752.9	4276.7	4175.0	4087.1	4124.1	4179.6	4216.6
32.5°	8350.0	6435.8	*6200.1*	5317.0	4854.6	4678.9	4581.8	4572.6	4683.6	4655.8
35°	8872.4	7013.8	*6787.2*	5959.6	5441.8	5224.5	5095.0	5261.5	5187.5	5215.3
37.5°	9283.9	7614.8	*7434.5*	6574.6	6052.1	5756.2	5677.6	5881.0	5996.6	6029.0
40°	9621.4	8137.3	*7947.7*	7184.8	6611.5	6394.2	6519.1	6856.6	6842.7	6828.8
42.5°	9880.3	8585.8	*8377.7*	7647.2	7147.9	7189.5	7286.6	7513.1	7568.6	7490.0
45°	9995.9	8867.8	*8701.3*	8012.4	7758.2	7998.6	8040.2	8137.3	8100.3	8049.4
47.5°	10130.0	9117.5	*8941.8*	8345.3	8419.3	8655.1	8571.9	8493.3	8359.2	8280.6
50°	10356.5	9413.4	*9265.4*	8830.8	9099.0	9020.4	8696.7	8521.0	8248.2	8155.8
52.5°	10786.5	9972.8	*9861.8*	9598.3	9418.0	8964.9	8571.9	8257.5	7952.3	7827.5
55°	11170.3	10731.0	*10666.3*	10314.9	9320.9	8673.6	8146.5	7661.1	7138.6	7032.3
57.5°	11392.2	11988.6	*12062.6*	10620.1	8877.0	8012.4	7235.7	6459.0	5964.3	5876.4
60°	*10731.0*	*13347.9*	*13384.9*	*10560.0*	*8077.2*	*6819.6*	*5636.0*	*5085.8*	*4554.1*	*4401.5*
62.5°	9820.2	13065.9	*13033.5*	10199.3	6431.2	4974.8	4281.3	4022.4	3610.9	3486.1
65°	8442.4	10883.6	*10920.6*	8812.3	4276.7	3597.0	3597.0	3268.8	2811.1	2723.2
67.5°	6879.7	8391.6	*8308.3*	5714.6	2626.1	2880.4	3019.1	2547.5	1904.9	1798.5
70°	4470.9	6408.1	*6292.5*	3296.5	1650.6	2399.6	2376.5	1914.1	1363.9	1289.9
72.5°	1923.4	3703.4	*3939.2*	1682.9	1243.7	1932.6	1895.6	1340.8	910.8	878.5
75°	1160.5	1863.3	*2029.7*	1072.6	906.2	1456.4	1313.1	850.7	619.5	596.4
77.5°	735.1	1021.8	*1012.5*	804.5	679.6	984.8	883.1	587.2	420.7	402.2
80°	425.4	504.0	*522.5*	504.0	457.7	702.8	564.1	425.4	328.3	305.1
82.5°	272.8	314.4	*319.0*	245.0	254.3	453.1	305.1	249.7	189.6	171.1
85°	120.2	134.1	*129.5*	83.2	83.2	184.9	106.3	101.7	74.0	74.0
87.5°	4.6	9.2	*4.6*	4.6	4.6	18.5	9.2	13.9	13.9	13.9
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

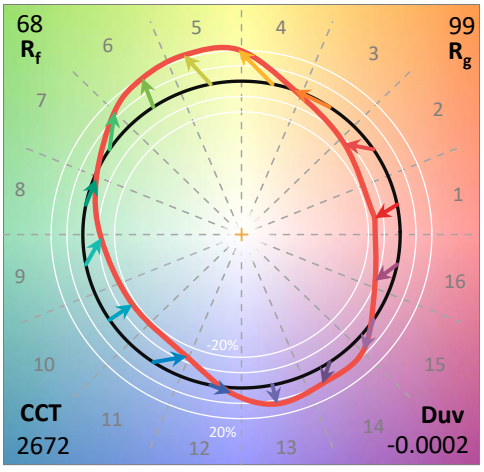
Test Information

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

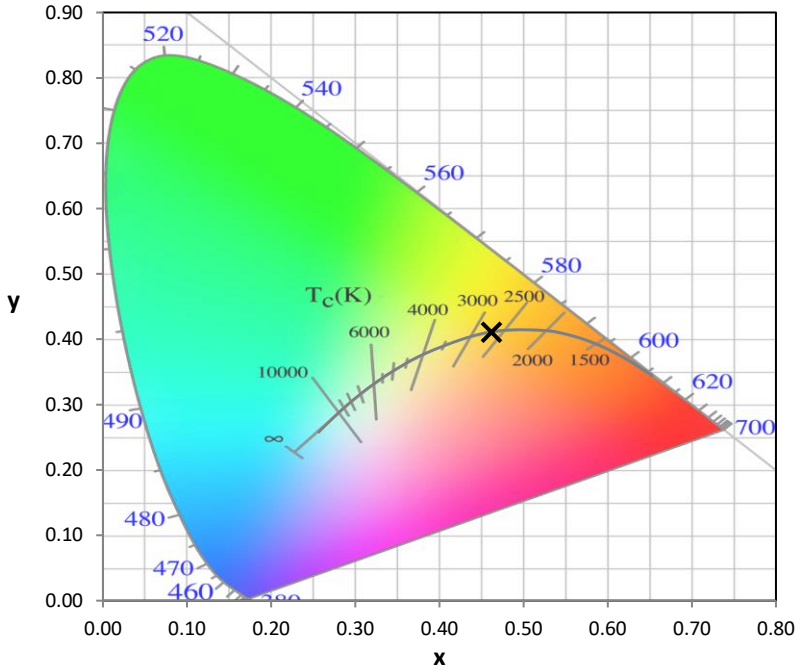
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

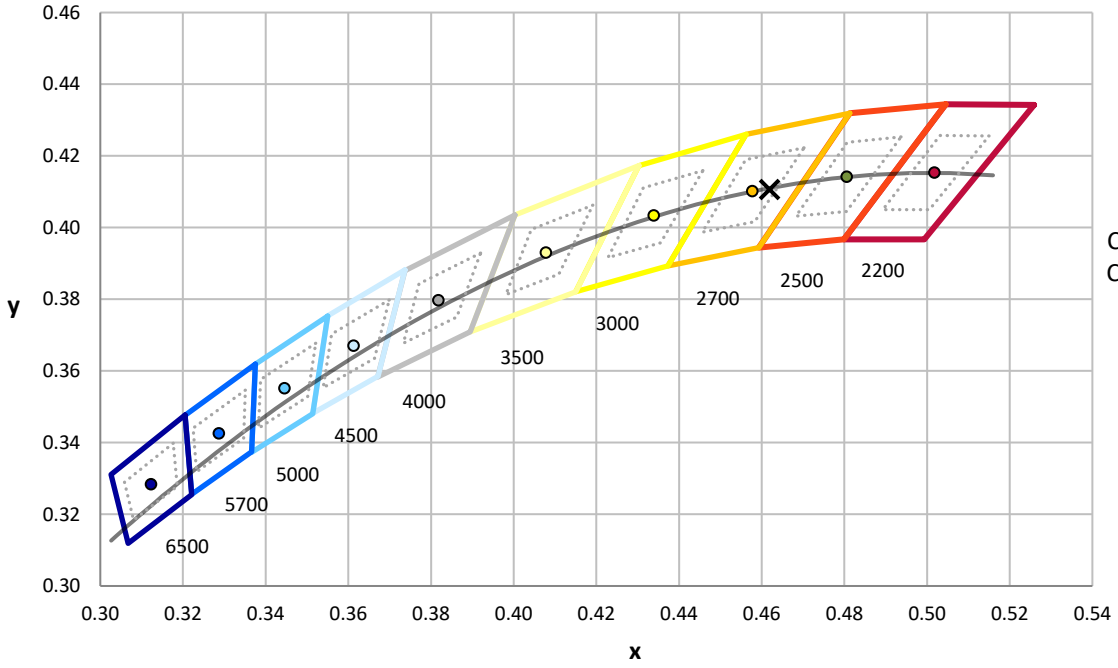
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

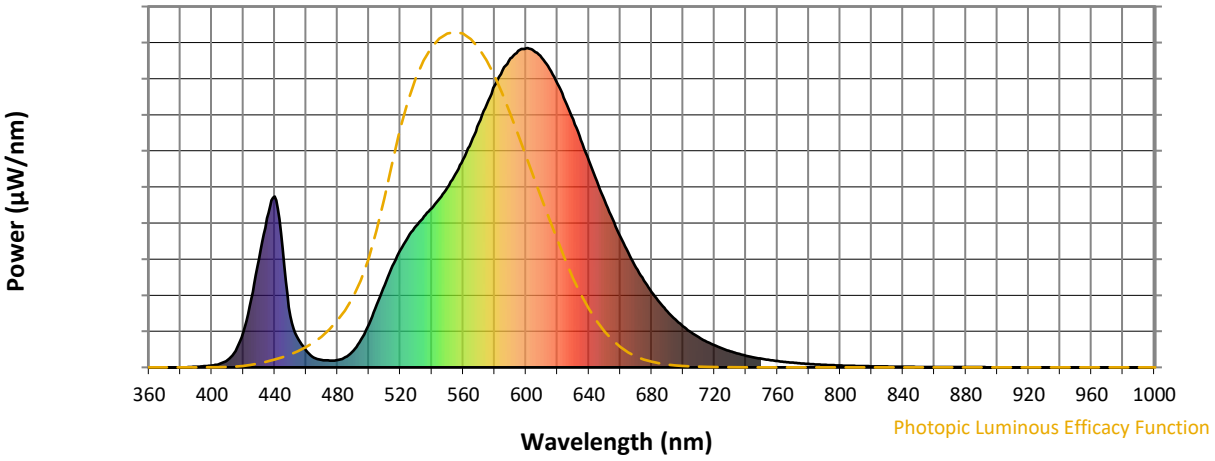


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

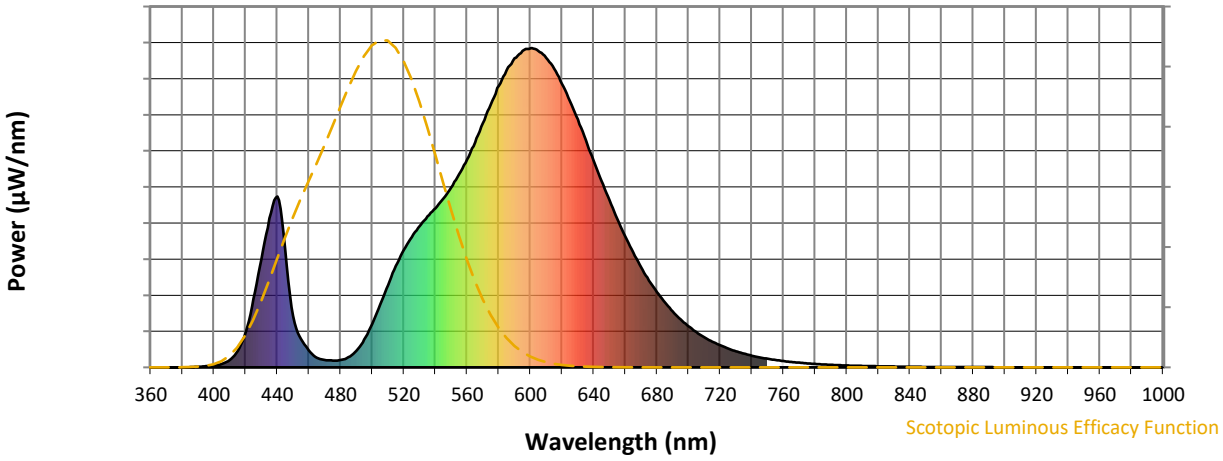


Photopic Lumens: NR

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

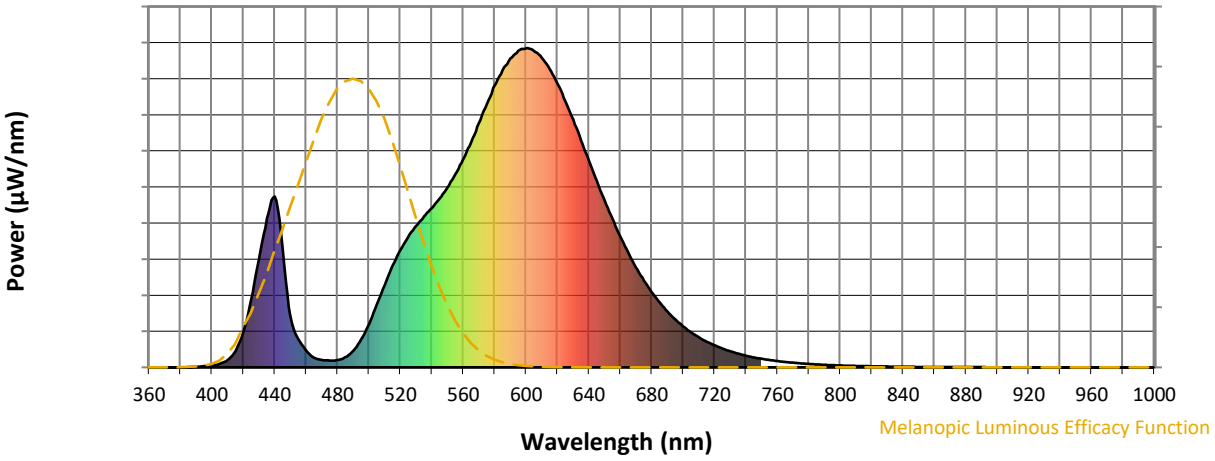


Scotopic Lumens: NR **S/P: 1.02**

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			

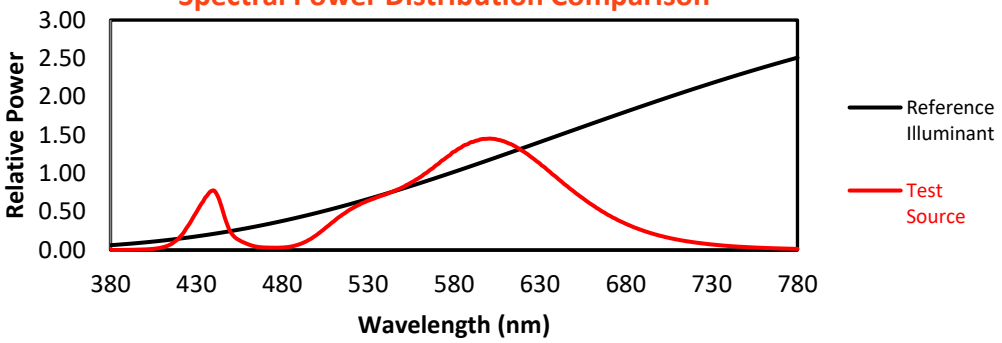
REPORT NUMBER: SP1-2407-184-3

TM-30-18

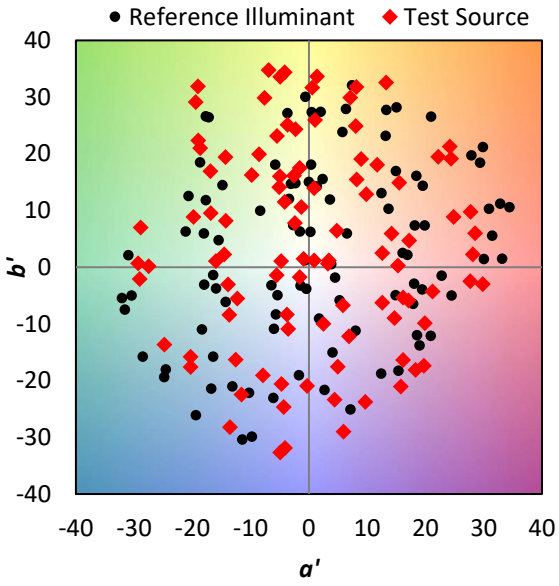
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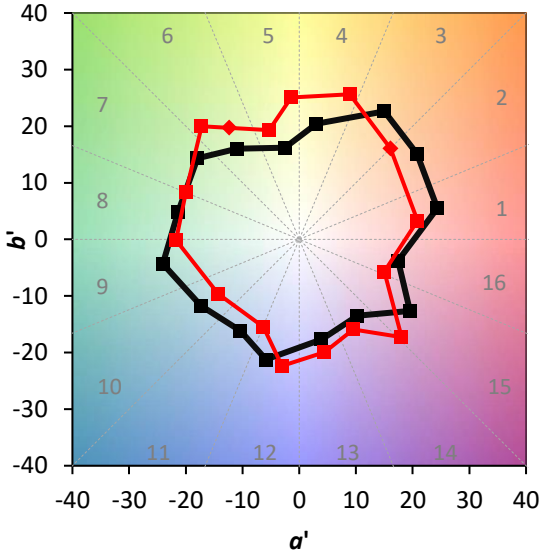
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

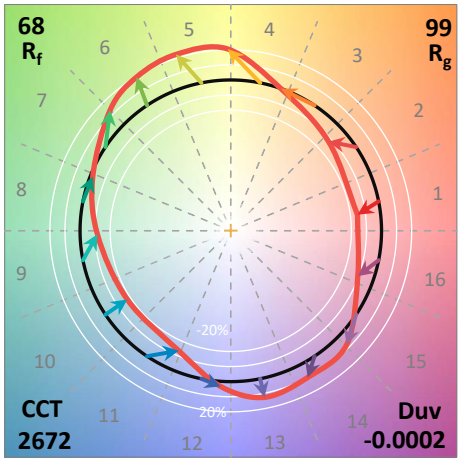
Spectral Power Distribution Comparison

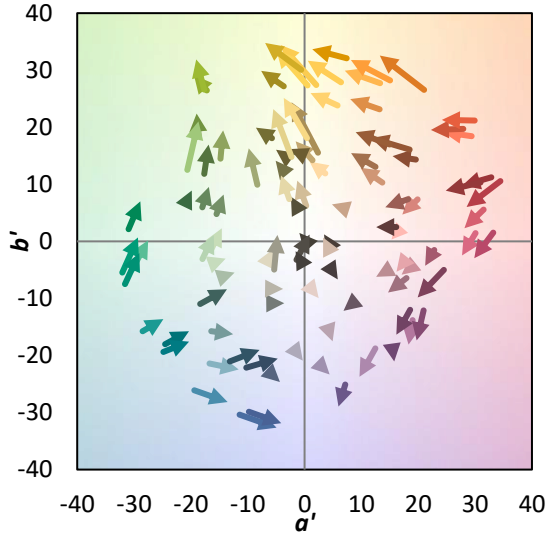


Color Vector Graphics







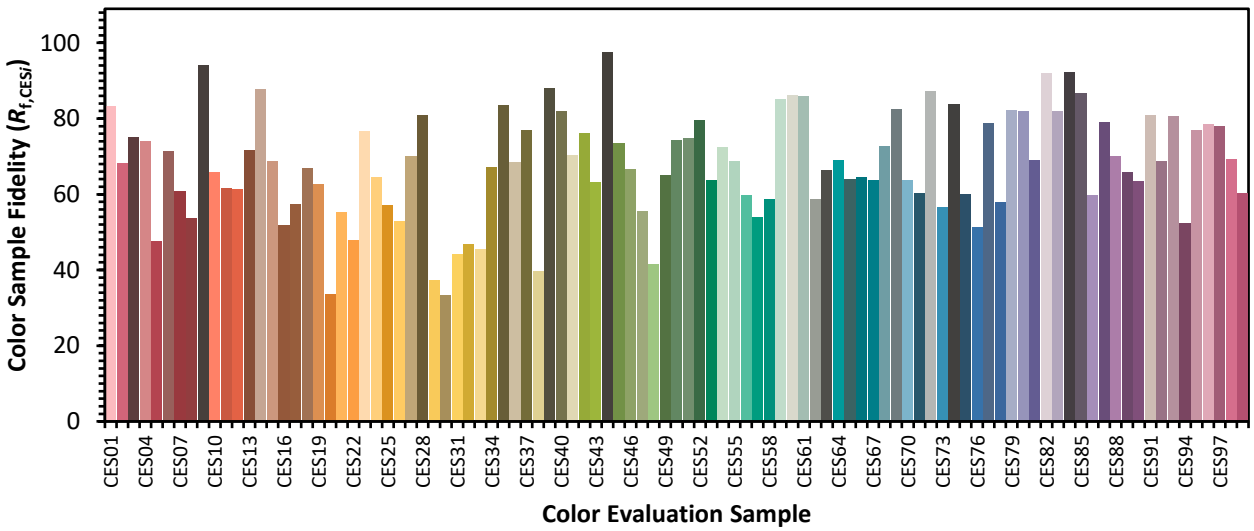


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Individual Sample Fidelity Index ($R_{f,i}$)

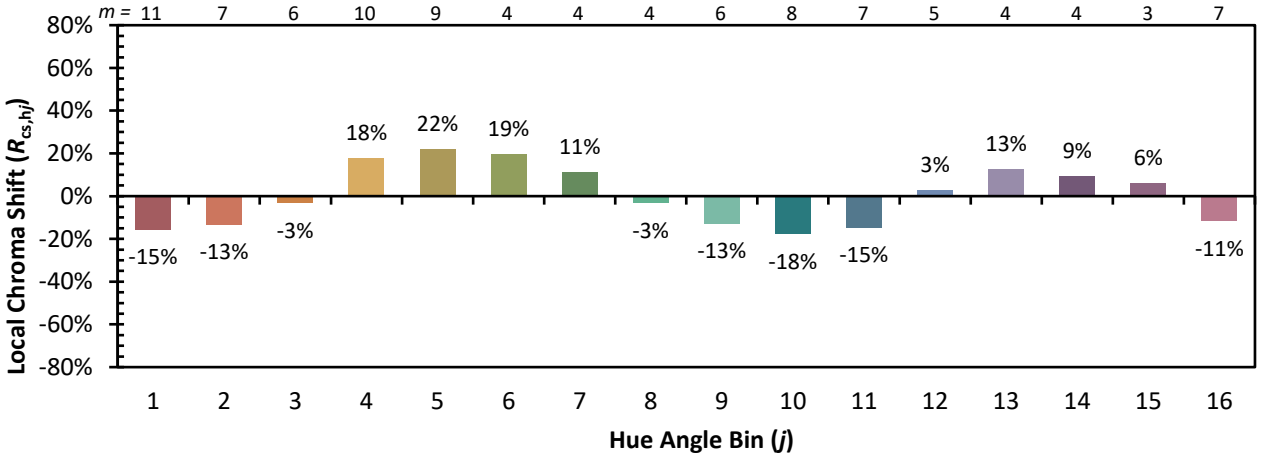
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 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	

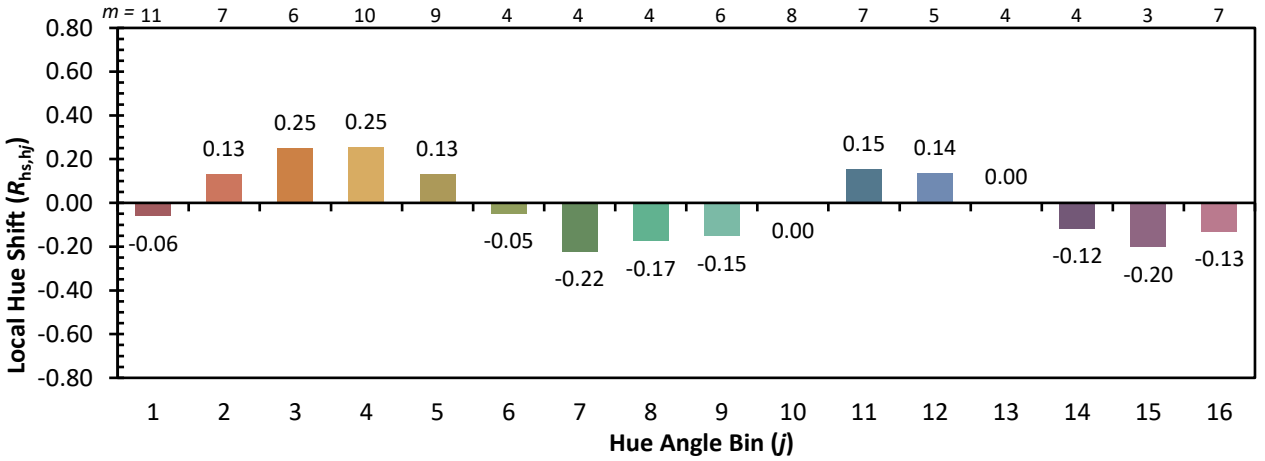


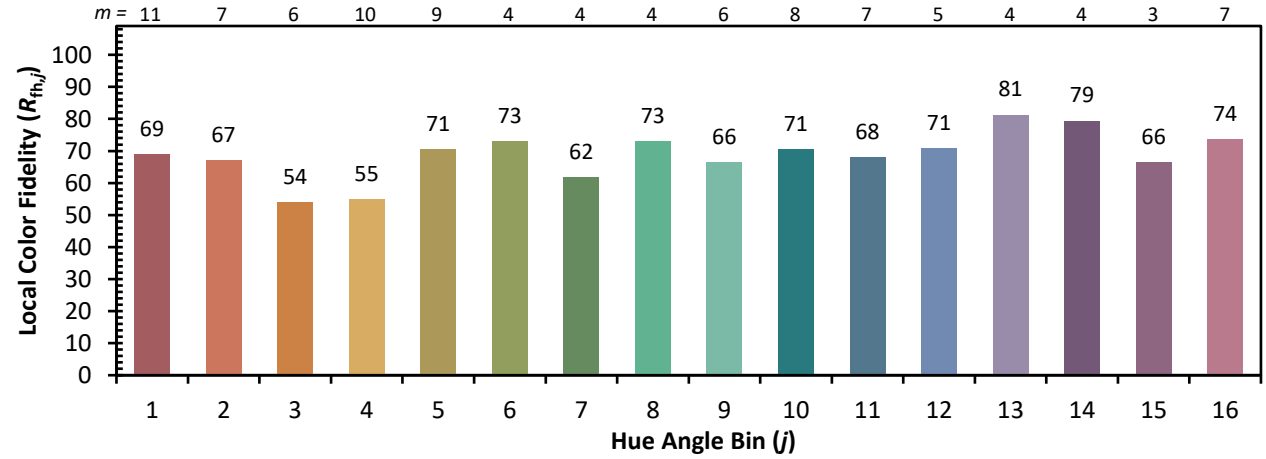
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Color Rendition by Hue-Angle Bin



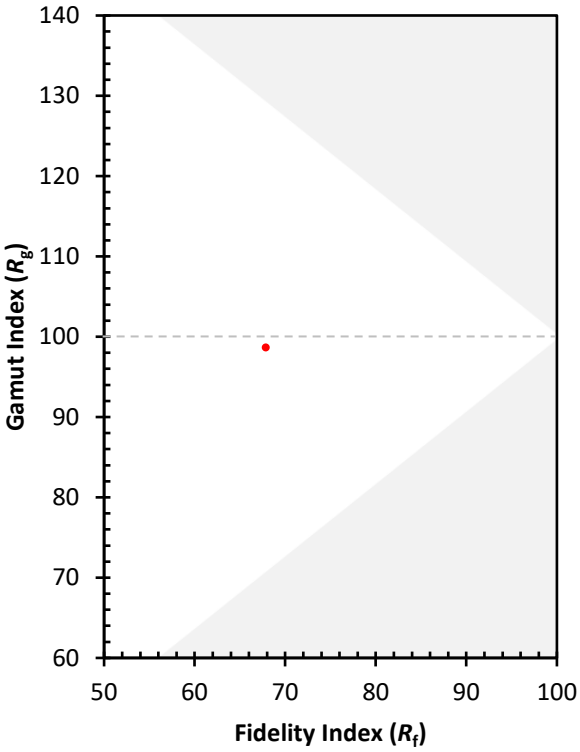


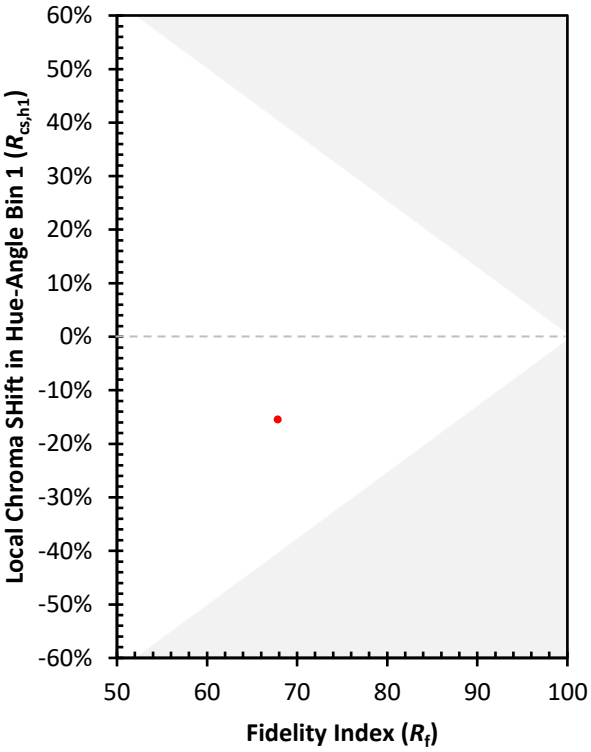


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Measure Comparisons





(END OF REPORT)