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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1364612

Luminaire Tested: **GSS-SB4B-735-U-SLR-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1364612
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-735-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 70CRI 3500K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(104) 3500K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16578.1 lumens
Efficiency:	N/A
Efficacy:	112.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3

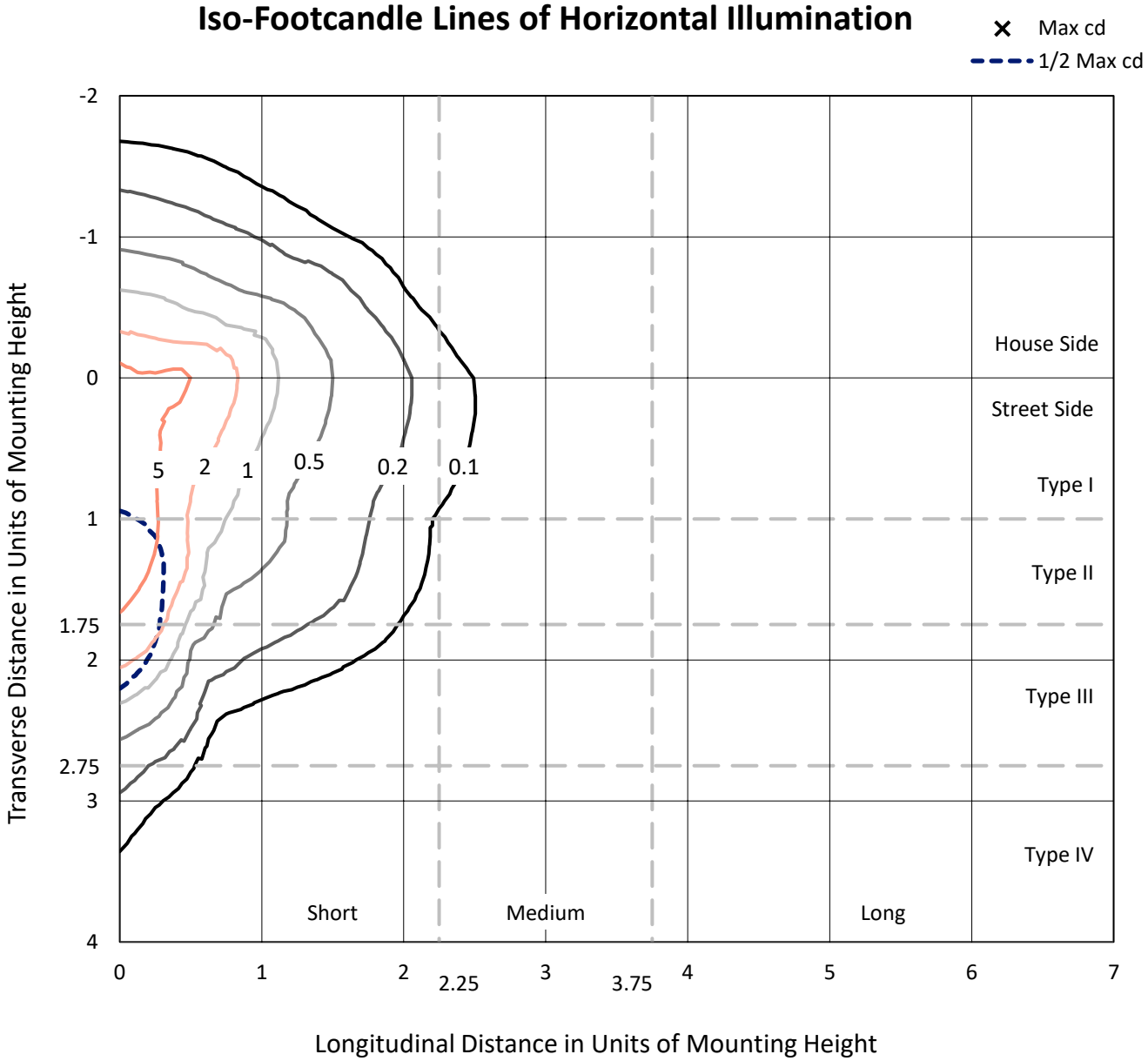
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



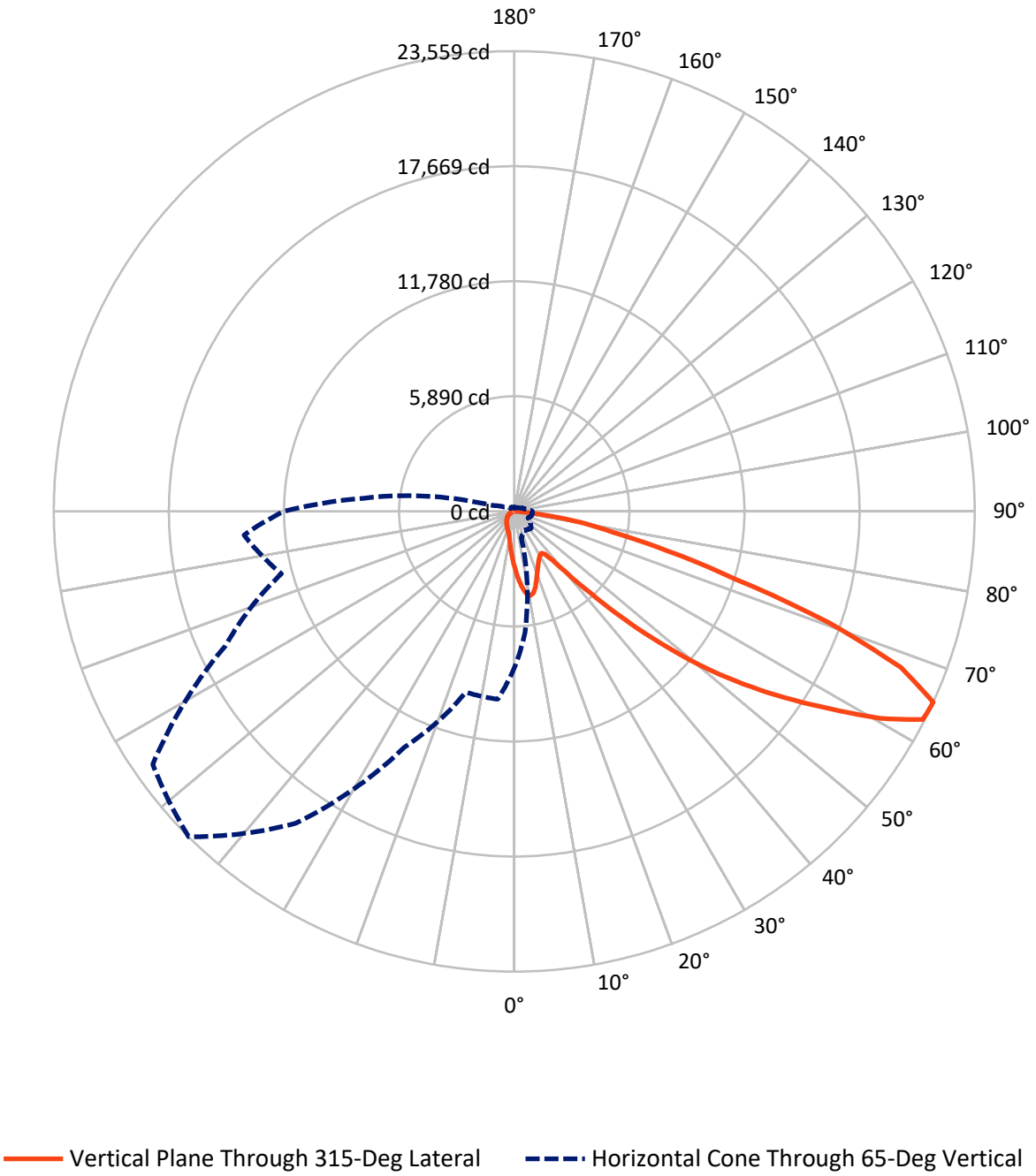
Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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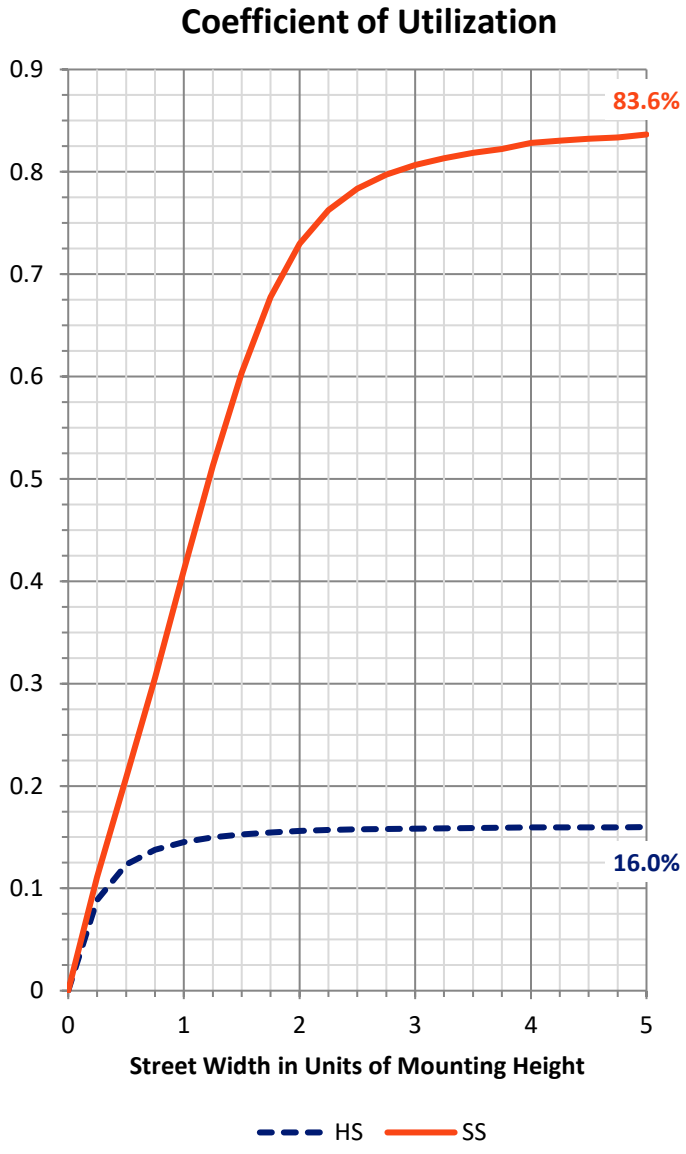
REPORT NUMBER: P1364612
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.9	0.0	2679.9
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	13898.2	0.0	13898.2
	% Fixture	83.8	0.0	83.8
Total	Lumens	16578.1	0.0	16578.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	1.7
10°-20°	761.7	4.6
20°-30°	1091.0	6.6
30°-40°	1368.5	8.3
40°-50°	2248.0	13.6
50°-60°	4056.7	24.5
60°-70°	4502.1	27.2
70°-80°	2034.1	12.3
80°-90°	240.5	1.5
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°	16578.1	100.0
0°-180°	16578.1	100.0



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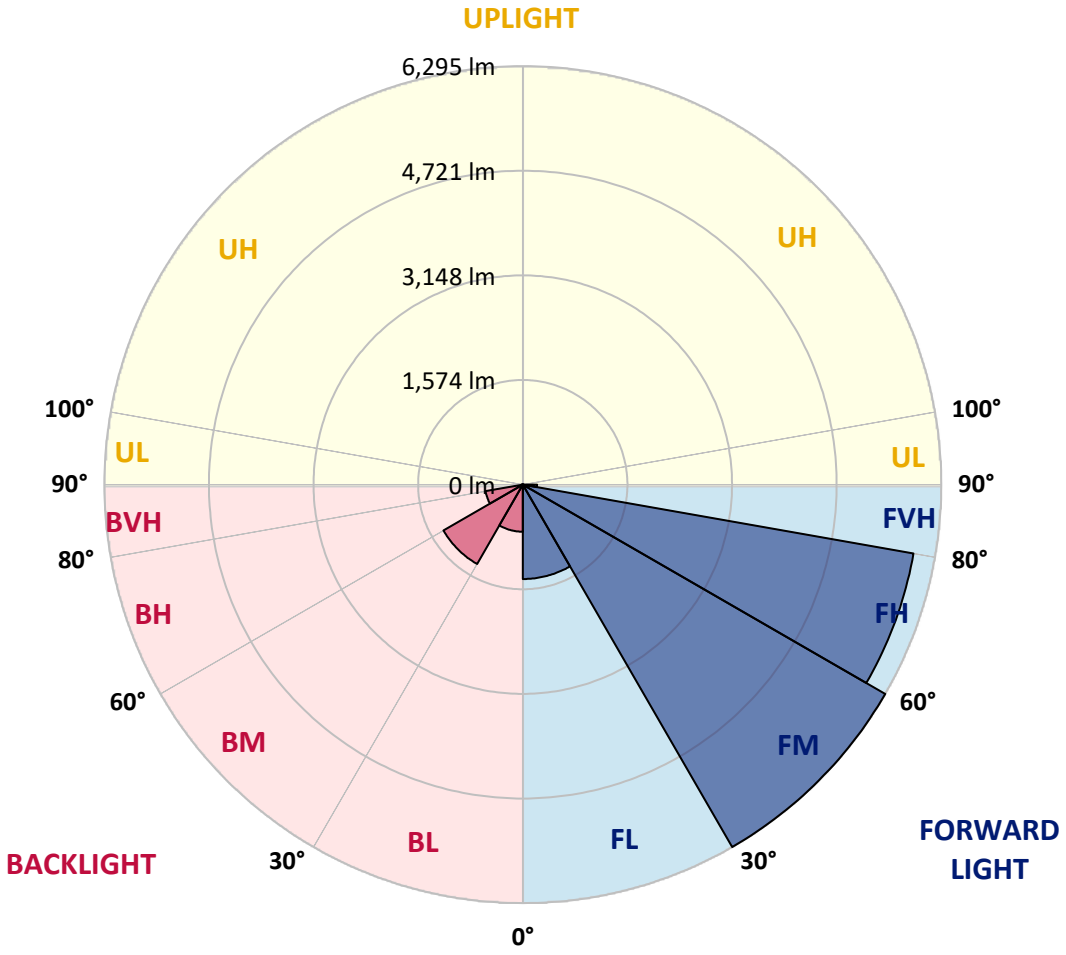
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1420.1	8.6			
FM	(30°-60°)	6295.2	38.0			
FH	(60°-80°)	5967.0	36.0			G3/7500
FVH	(80°-90°)	215.9	1.3			G2/225
BL	(0°-30°)	708.2	4.3	B2/1000		
BM	(30°-60°)	1378.0	8.3	B2/2500		
BH	(60°-80°)	569.1	3.4	B2/1000		G2/1000
BVH	(80°-90°)	24.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0
2.5°	3232.5	3229.5	3217.3	3140.9	3064.5	2998.4	2932.2	2866.0	2774.4	2703.1	2642.0
5°	3538.0	3521.7	3456.5	3339.4	3212.2	3100.2	2972.9	2850.7	2713.3	2601.3	2484.2
7.5°	3746.7	3730.4	3665.2	3471.8	3278.3	3140.9	3003.5	2876.2	2723.5	2575.8	2407.9
10°	3843.4	3825.1	3751.8	3543.1	3319.1	3151.1	3013.6	2896.6	2769.3	2621.7	2412.9
12.5°	3909.6	3887.2	3797.6	3558.3	3329.3	3161.3	3018.7	2906.7	2815.1	2728.6	2524.9
15°	3950.3	3929.9	3848.5	3599.1	3334.3	3146.0	2978.0	2871.1	2840.6	2855.8	2759.1
17.5°	4011.4	3992.0	3914.7	3650.0	3364.9	3120.5	2891.5	2774.4	2840.6	2978.0	3008.5
20°	4092.8	4072.5	3991.0	3716.1	3390.3	3044.2	2728.6	2616.6	2784.6	3013.6	3171.4
22.5°	4184.5	4168.2	4103.0	3792.5	3415.8	2932.2	2514.8	2463.8	2667.5	2911.8	3115.4
25°	4296.5	4281.2	4220.1	3899.4	3441.2	2779.5	2331.5	2341.7	2514.8	2708.2	2916.9
27.5°	4449.2	4434.9	4377.9	4031.8	3471.8	2621.7	2183.9	2234.8	2362.0	2494.4	2621.7
30°	4617.2	4606.0	4561.2	4189.6	3532.9	2474.0	2097.3	2127.9	2214.4	2321.3	2397.7
32.5°	4846.2	4827.9	4754.6	4337.2	3527.8	2362.0	2056.6	2026.1	2051.5	2138.1	2214.4
35°	5131.3	5117.1	5060.1	4489.9	3436.2	2260.2	2036.2	1929.3	1914.1	1965.0	2041.3
37.5°	5548.8	5536.5	5487.7	4739.3	3293.6	2133.0	1985.3	1827.5	1776.6	1812.3	1863.2
40°	6174.9	6143.3	6017.1	5024.4	3135.8	2005.7	1893.7	1705.4	1634.1	1659.5	1715.5
42.5°	7025.0	6965.0	6724.7	5406.2	2922.0	1883.5	1756.3	1583.2	1506.8	1522.1	1573.0
45°	8114.4	8023.8	7661.3	5930.5	2698.0	1786.8	1613.7	1455.9	1374.5	1389.7	1445.7
47.5°	9387.1	9262.9	8766.0	6480.3	2458.8	1730.8	1501.7	1328.6	1267.6	1303.2	1359.2
50°	10888.8	10763.6	10262.6	6831.6	2265.3	1695.2	1415.2	1211.6	1186.1	1231.9	1277.7
52.5°	12528.0	12349.8	11637.1	6607.6	2107.5	1664.6	1384.6	1130.1	1140.3	1175.9	1221.7
55°	14121.3	13725.3	12141.1	5864.4	1903.9	1629.0	1405.0	1069.0	1094.5	1140.3	1175.9
57.5°	15159.8	14471.6	11718.6	4724.1	1690.1	1588.3	1420.3	1038.5	1058.8	1109.8	1150.5
60°	14253.7	13561.4	10792.1	3538.0	1506.8	1501.7	1394.8	1028.3	997.8	1069.0	1104.7
62.5°	11677.8	11107.7	8827.1	2260.2	1333.7	1338.8	1338.8	1023.2	895.9	987.6	1018.1
65°	*8022.8*	*7666.4*	*6241.1*	*1399.9*	*1089.4*	*1140.3*	*1216.7*	*992.7*	*789.0*	*895.9*	*926.5*
67.5°	5273.9	5012.2	3965.6	865.4	839.9	936.7	1053.8	931.6	707.6	804.3	824.7
70°	2860.9	2662.4	1868.2	570.1	549.8	733.0	829.8	789.0	636.3	717.8	738.1
72.5°	1888.6	1725.7	1074.1	402.2	402.2	575.2	580.3	646.5	570.1	636.3	656.7
75°	1420.3	1274.7	692.3	280.0	310.5	366.5	453.1	463.2	478.5	539.6	565.1
77.5°	651.6	572.2	254.5	168.0	229.1	254.5	346.2	295.3	356.3	402.2	412.3
80°	376.7	329.9	142.5	112.0	147.6	162.9	285.1	173.1	213.8	285.1	300.3
82.5°	157.8	140.5	71.3	76.4	91.6	96.7	157.8	122.2	137.4	188.4	183.3
85°	45.8	45.8	45.8	50.9	56.0	56.0	91.6	86.5	81.4	86.5	86.5
87.5°	30.5	30.5	30.5	30.5	35.6	35.6	40.7	45.8	50.9	50.9	50.9
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°	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0
2.5°	2616.6	2580.9	2535.1	2468.9	2458.8	2423.1	2397.7	2423.1	2448.6	2494.4	2499.5
5°	2423.1	2367.1	2260.2	2178.8	2087.1	2041.3	2036.2	2026.1	2056.6	2122.8	2163.5
7.5°	2316.2	2224.6	2031.1	1888.6	1761.3	1715.5	1679.9	1710.4	1705.4	1791.9	1827.5
10°	2290.8	2148.2	1878.4	1664.6	1506.8	1445.7	1410.1	1405.0	1415.2	1466.1	1501.7
12.5°	2382.4	2199.1	1817.3	1501.7	1318.5	1252.3	1211.6	1175.9	1175.9	1186.1	1231.9
15°	2586.0	2367.1	1853.0	1425.4	1226.8	1140.3	1074.1	1028.3	992.7	997.8	1002.8
17.5°	2871.1	2611.5	1944.6	1399.9	1170.8	1079.2	997.8	951.9	911.2	901.0	901.0
20°	3095.1	2845.6	2015.9	1379.6	1125.0	1007.9	936.7	895.9	860.3	845.0	845.0
22.5°	3120.5	2942.4	2077.0	1354.1	1069.0	936.7	870.5	834.9	809.4	804.3	804.3
25°	2952.5	2866.0	2056.6	1323.6	1013.0	870.5	819.6	789.0	763.6	758.5	763.6
27.5°	2672.6	2626.7	1985.3	1282.8	967.2	819.6	773.8	748.3	722.9	717.8	722.9
30°	2423.1	2372.2	1863.2	1216.7	931.6	778.9	728.0	702.5	677.0	677.0	682.1
32.5°	2219.5	2168.6	1741.0	1140.3	885.8	733.0	687.2	661.8	636.3	636.3	646.5
35°	2036.2	1995.5	1644.3	1063.9	839.9	692.3	641.4	621.1	600.7	595.6	605.8
37.5°	1878.4	1858.1	1557.7	982.5	794.1	651.6	605.8	585.4	560.0	554.9	565.1
40°	1725.7	1715.5	1461.0	911.2	738.1	610.9	565.1	544.7	514.2	514.2	524.3
42.5°	1583.2	1578.1	1374.5	865.4	687.2	570.1	519.2	498.9	473.4	473.4	483.6
45°	1471.2	1466.1	1293.0	839.9	636.3	524.3	478.5	453.1	432.7	437.8	448.0
47.5°	1369.4	1359.2	1206.5	845.0	610.9	493.8	432.7	407.2	392.0	402.2	417.4
50°	1287.9	1277.7	1145.4	850.1	570.1	453.1	397.1	371.6	361.4	376.7	392.0
52.5°	1237.0	1226.8	1084.3	819.6	519.2	422.5	361.4	346.2	346.2	361.4	371.6
55°	1186.1	1175.9	982.5	753.4	463.2	392.0	336.0	325.8	325.8	341.1	351.3
57.5°	1155.6	1135.2	875.6	677.0	417.4	356.3	310.5	310.5	310.5	315.6	320.7
60°	1109.8	1058.8	763.6	580.3	381.8	320.7	290.2	285.1	285.1	280.0	285.1
62.5°	1013.0	926.5	641.4	493.8	341.1	290.2	264.7	259.6	244.3	229.1	234.2
65°	*916.3*	*784.0*	*509.1*	*412.3*	*295.3*	*249.4*	*234.2*	*229.1*	*203.6*	*183.3*	*188.4*
67.5°	794.1	626.1	381.8	346.2	254.5	213.8	198.5	198.5	183.3	168.0	168.0
70°	707.6	488.7	320.7	259.6	203.6	168.0	168.0	178.2	162.9	142.5	142.5
72.5°	626.1	397.1	259.6	208.7	157.8	132.4	142.5	147.6	132.4	117.1	117.1
75°	534.5	310.5	203.6	162.9	117.1	101.8	106.9	117.1	106.9	91.6	96.7
77.5°	386.9	213.8	137.4	106.9	86.5	76.4	81.4	81.4	76.4	71.3	71.3
80°	269.8	142.5	91.6	71.3	61.1	56.0	56.0	50.9	50.9	56.0	56.0
82.5°	162.9	101.8	66.2	56.0	45.8	35.6	35.6	40.7	40.7	45.8	45.8
85°	71.3	61.1	45.8	40.7	30.5	25.5	30.5	30.5	35.6	40.7	40.7
87.5°	45.8	45.8	35.6	30.5	25.5	20.4	20.4	25.5	25.5	30.5	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0
2.5°	2519.8	2570.8	2631.8	2718.4	2794.7	2886.4	2978.0	3064.5	3146.0	3156.2	3191.8
5°	2194.0	2290.8	2412.9	2555.5	2728.6	2911.8	3090.0	3278.3	3431.1	3487.1	3568.5
7.5°	1858.1	1980.2	2158.4	2377.3	2621.7	2896.6	3171.4	3436.2	3665.2	3772.1	3879.0
10°	1537.4	1654.4	1873.3	2138.1	2453.7	2825.3	3191.8	3548.1	3828.1	3950.3	4052.1
12.5°	1247.2	1364.3	1542.5	1847.9	2229.7	2677.7	3161.3	3588.9	3899.4	4026.7	4123.4
15°	1018.1	1114.8	1282.8	1567.9	1970.1	2474.0	3054.4	3558.3	3914.7	4036.8	4108.1
17.5°	895.9	921.4	1028.3	1287.9	1725.7	2290.8	2916.9	3517.6	3924.9	4036.8	4077.6
20°	845.0	845.0	865.4	1002.8	1430.5	2097.3	2815.1	3492.2	3940.1	4052.1	4047.0
22.5°	799.2	809.4	809.4	839.9	1089.4	1827.5	2708.2	3482.0	3985.9	4072.5	4001.2
25°	758.5	773.8	773.8	784.0	855.2	1506.8	2575.8	3502.3	4067.4	4113.2	3970.7
27.5°	722.9	738.1	738.1	748.3	763.6	1119.9	2356.9	3507.4	4159.0	4164.1	3929.9
30°	687.2	702.5	712.7	712.7	722.9	824.7	2082.1	3476.9	4260.8	4230.3	3924.9
32.5°	646.5	666.9	672.0	682.1	687.2	717.8	1725.7	3426.0	4388.1	4321.9	3929.9
35°	610.9	636.3	641.4	641.4	651.6	682.1	1379.6	3370.0	4561.2	4444.1	3950.3
37.5°	575.2	595.6	600.7	605.8	616.0	646.5	1094.5	3288.5	4708.8	4596.8	4052.1
40°	534.5	560.0	565.1	570.1	580.3	610.9	941.8	3186.7	4932.8	4851.3	4204.8
42.5°	493.8	519.2	529.4	534.5	539.6	580.3	860.3	3115.4	5294.2	5207.7	4515.4
45°	458.2	483.6	493.8	493.8	504.0	560.0	789.0	3273.3	5793.1	5752.4	4932.8
47.5°	427.6	453.1	458.2	458.2	463.2	529.4	728.0	3695.8	6556.7	6449.8	5584.4
50°	402.2	422.5	432.7	422.5	427.6	504.0	763.6	4393.2	7534.1	7569.7	6541.4
52.5°	381.8	402.2	407.2	386.9	386.9	468.3	809.4	4963.3	8781.3	9107.1	8058.4
55°	356.3	376.7	381.8	356.3	356.3	412.3	702.5	4999.0	10201.6	11250.2	10033.6
57.5°	330.9	351.3	351.3	330.9	325.8	356.3	570.1	4433.9	11301.1	13678.4	12736.7
60°	300.3	320.7	315.6	305.4	295.3	325.8	524.3	3380.2	11153.5	15261.6	15836.8
62.5°	244.3	274.9	285.1	280.0	259.6	295.3	488.7	2204.2	9651.8	13887.2	15740.1
65°	*203.6*	*229.1*	*244.3*	*244.3*	*229.1*	*325.8*	*427.6*	*1160.7*	*7727.5*	*11784.7*	*13877.0*
67.5°	178.2	203.6	213.8	208.7	198.5	290.2	269.8	560.0	5925.5	10155.7	12421.1
70°	157.8	178.2	188.4	173.1	162.9	234.2	193.4	330.9	3965.6	8475.8	11061.9
72.5°	127.3	147.6	157.8	142.5	127.3	173.1	147.6	218.9	2580.9	7223.6	9829.9
75°	101.8	122.2	127.3	117.1	101.8	127.3	117.1	152.7	1685.0	5976.4	8358.8
77.5°	76.4	86.5	96.7	91.6	76.4	91.6	81.4	106.9	962.1	4194.7	5864.4
80°	61.1	66.2	66.2	66.2	61.1	56.0	56.0	71.3	432.7	2066.8	3059.4
82.5°	50.9	56.0	56.0	50.9	45.8	40.7	35.6	40.7	127.3	926.5	1410.1
85°	45.8	50.9	40.7	35.6	30.5	25.5	15.3	15.3	35.6	147.6	274.9
87.5°	35.6	30.5	25.5	20.4	10.2	5.1	5.1	0.0	5.1	5.1	5.1
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: P1364612
CATALOG NUMBER: GSS-SB4B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2866.0	2866.0	2866.0	*2866.0*	2866.0	2866.0	2866.0	2866.0	2866.0	2866.0
2.5°	3247.8	3298.7	3334.3	*3364.9*	3354.7	3329.3	3278.3	3242.7	3234.6	3232.5
5°	3675.4	3756.9	3828.1	*3817.9*	3828.1	3751.8	3675.4	3583.8	3547.1	3538.0
7.5°	4031.8	4133.6	4220.1	*4209.9*	4179.4	4092.8	3965.6	3828.1	3763.0	3746.7
10°	4225.2	4342.3	4413.5	*4388.1*	4337.2	4225.2	4097.9	3935.0	3861.7	3843.4
12.5°	4260.8	4337.2	4321.9	*4311.7*	4301.6	4245.6	4148.8	4001.2	3927.9	3909.6
15°	4169.2	4138.7	4052.1	*4031.8*	4108.1	4179.4	4159.0	4036.8	3967.6	3950.3
17.5°	4016.5	3858.7	3700.9	*3680.5*	3807.8	4006.3	4164.1	4092.8	4027.7	4011.4
20°	3848.5	3553.2	3380.2	*3344.5*	3502.3	3797.6	4108.1	4148.8	4104.0	4092.8
22.5°	3650.0	3303.8	3120.5	*3100.2*	3217.3	3563.4	4026.7	4209.9	4189.6	4184.5
25°	3476.9	3084.9	2911.8	*2881.3*	3034.0	3370.0	3945.2	4311.7	4299.5	4296.5
27.5°	3334.3	2927.1	2743.8	*2723.5*	2871.1	3207.1	3843.4	4398.3	4439.0	4449.2
30°	3222.3	2810.0	2626.7	*2601.3*	2764.2	3095.1	3772.1	4520.5	4597.8	4617.2
32.5°	3135.8	2743.8	2570.8	*2555.5*	2728.6	3049.3	3731.4	4647.7	4806.5	4846.2
35°	3105.3	2764.2	2647.1	*2682.7*	2815.1	3095.1	3762.0	4856.4	5076.3	5131.3
37.5°	3171.4	2988.2	3069.6	*3161.3*	3212.2	3314.0	3904.5	5192.4	5477.5	5548.8
40°	3385.2	3588.9	3970.7	*4148.8*	4128.5	3894.3	4230.3	5665.8	6073.1	6174.9
42.5°	3929.9	4591.7	5401.1	*5701.5*	5528.4	4820.8	4749.5	6444.7	6909.0	7025.0
45°	4739.3	5803.3	7131.9	*7809.0*	7213.4	5996.7	5569.1	7554.4	8002.4	8114.4
47.5°	5548.8	7157.4	9270.0	*10074.3*	8903.5	7162.5	6643.2	8883.1	9286.3	9387.1
50°	6373.4	8654.0	11402.9	*12477.1*	10588.4	8348.6	7783.5	10522.3	10815.5	10888.8
52.5°	7223.6	9992.8	13754.8	*14681.3*	12349.8	9264.9	9086.7	12309.1	12484.2	12528.0
55°	8170.4	11260.4	16111.7	*16860.1*	13953.3	10064.1	10613.9	14177.3	14132.5	14121.3
57.5°	9432.9	12594.1	18010.5	*19054.1*	15409.2	11143.3	12655.2	16254.3	15378.7	15159.8
60°	11637.1	14666.0	20372.6	*21507.8*	17358.9	12721.4	14157.0	16208.5	14644.6	14253.7
62.5°	14192.6	16661.5	22510.6	*23467.7*	19410.4	14289.3	12960.7	13612.3	12064.7	11677.8
65°	*12329.4*	*16310.3*	*22576.8*	*23559.3*	*19486.8*	*13332.3*	*9580.5*	*9651.8*	*8348.6*	*8022.8*
67.5°	10491.7	14457.3	20560.9	*21334.7*	17384.4	11021.1	6353.1	6297.1	5478.5	5273.9
70°	9341.2	12665.4	17720.4	*17053.5*	14615.1	9315.8	4220.1	3497.2	2988.2	2860.9
72.5°	8394.4	10048.8	14360.6	*11754.2*	12125.8	7579.9	2682.7	2382.4	1987.4	1888.6
75°	7600.3	8312.9	8959.5	*8124.6*	8613.3	6246.2	2275.5	1837.7	1503.8	1420.3
77.5°	6047.6	6470.1	5304.4	*5151.7*	6032.4	4444.1	1130.1	773.8	676.0	651.6
80°	3599.1	3059.4	3008.5	*3431.1*	4016.5	2306.0	692.3	427.6	386.9	376.7
82.5°	2178.8	1104.7	1201.4	*1517.0*	2138.1	1048.7	412.3	183.3	162.9	157.8
85°	366.5	300.3	463.2	*442.9*	417.4	224.0	112.0	50.9	46.8	45.8
87.5°	10.2	15.3	20.4	*25.5*	25.5	25.5	25.5	25.5	29.5	30.5
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

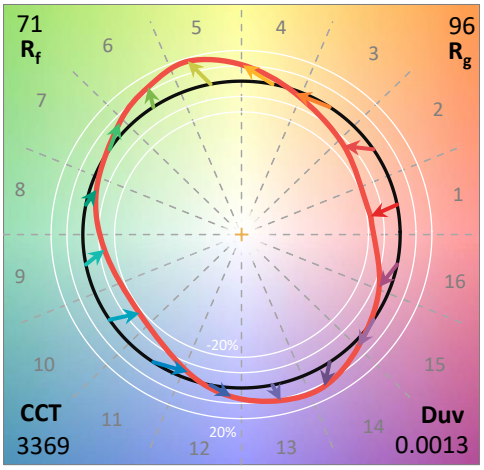
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-5
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-735-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369
CIE u':	0.2386
CIE v':	0.5156
Duv:	0.0013
CIE x:	0.4143
CIE y:	0.3980
CIE z:	0.1877
Peak Wavelength (nm):	590
Dominant Wavelength (nm):	580
Purity:	43.80166
Rf:	71.4
Rg:	96

CRI (Ra):	70.1
R1:	66.6
R2:	77.6
R3:	88.5
R4:	69.5
R5:	66.4
R6:	69.6
R7:	77.5
R8:	44.9
R9:	-40.2
R10:	49.1
R11:	66.3
R12:	45.7
R13:	68.0
R14:	93.4
R15:	57.6



Test Conditions

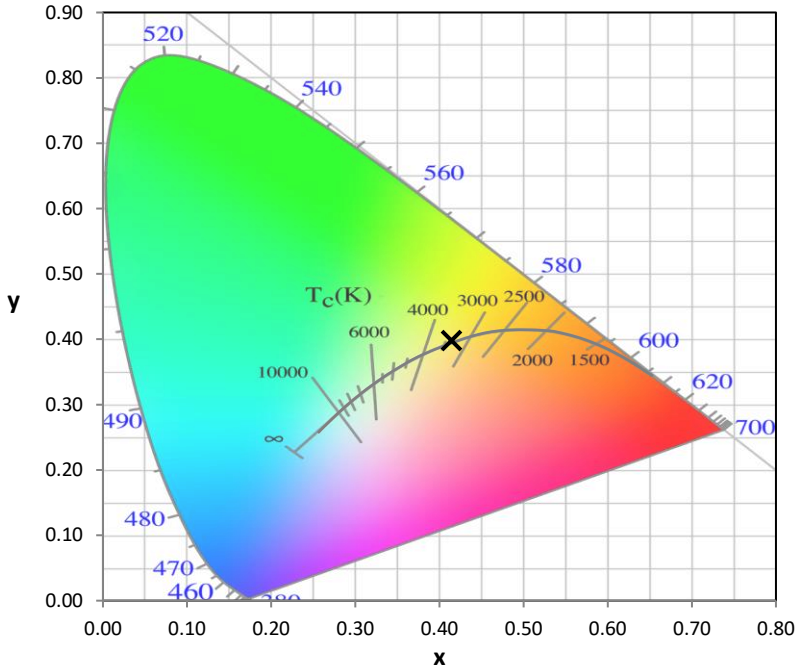
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-5

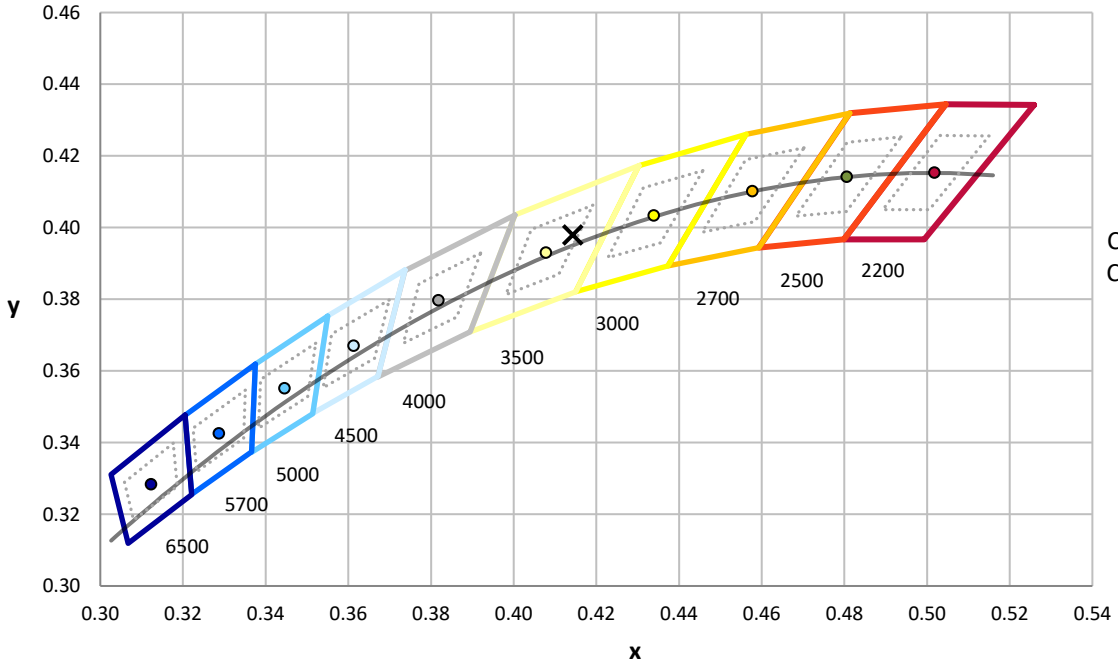
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



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

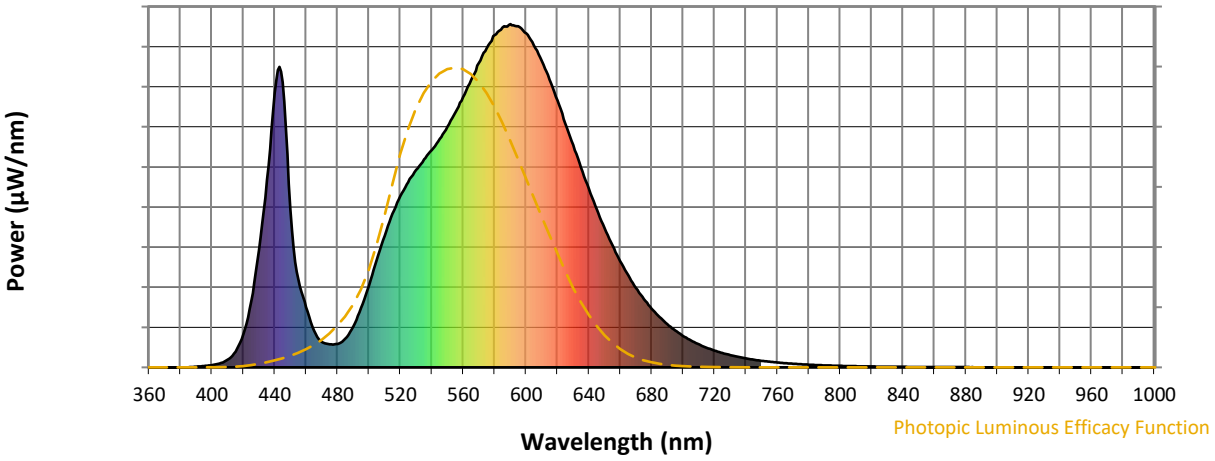


CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

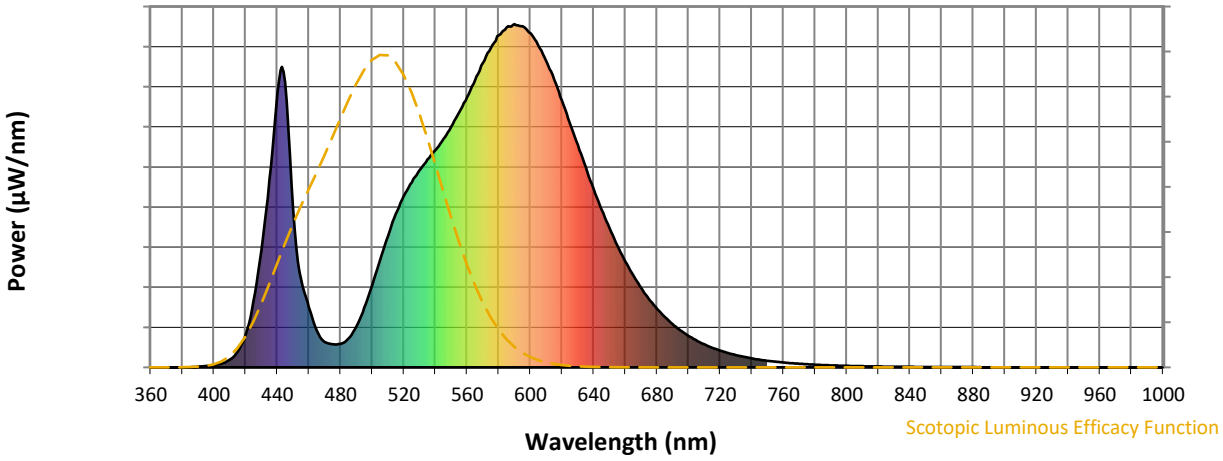


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength

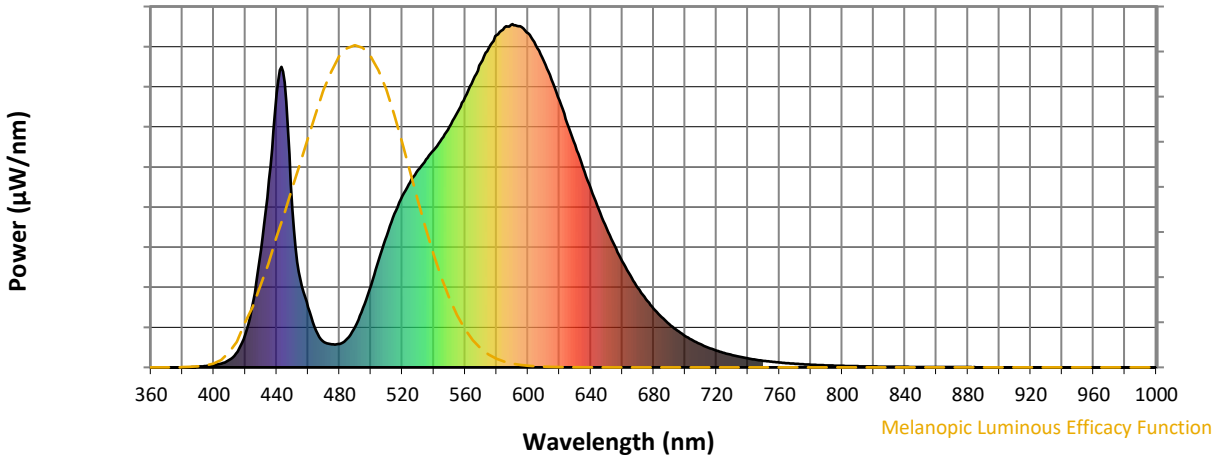


Scotopic Lumens: NR **S/P: 1.29**

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.36**

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

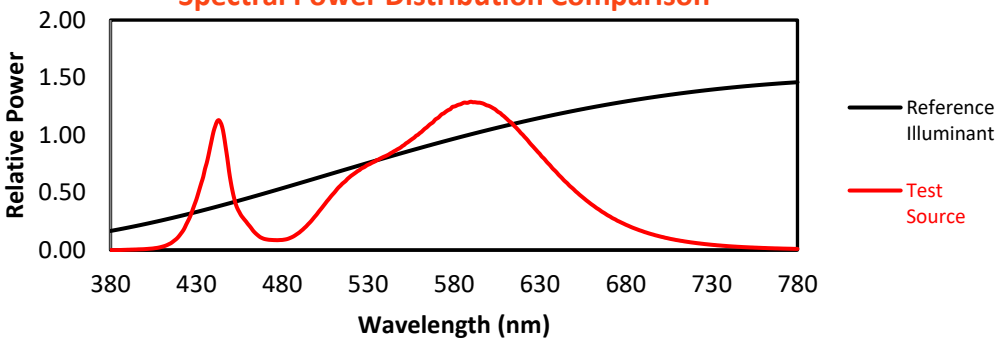
REPORT NUMBER: SP1-2407-184-5

TM-30-18

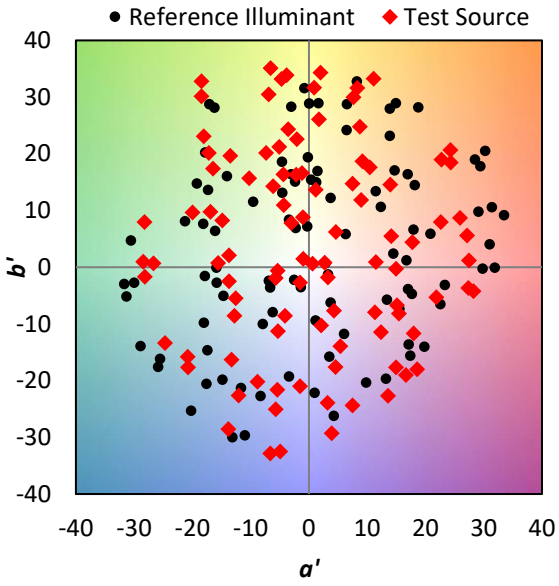
Summary

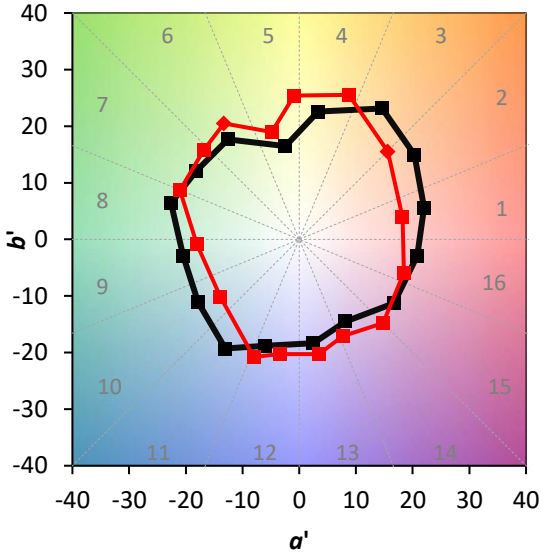
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R_g = 96
CIE R_a = 70.1
R_9 = -40.2

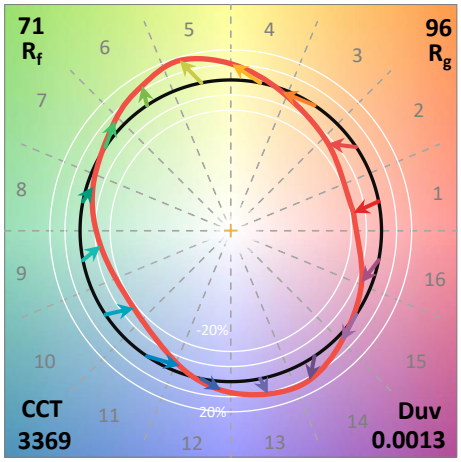
Spectral Power Distribution Comparison

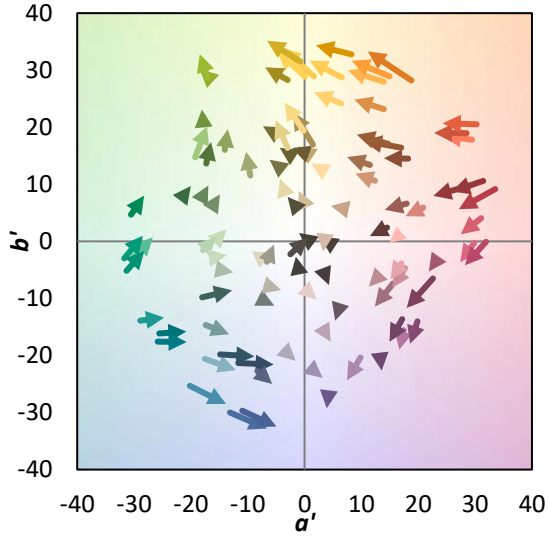


Color Vector Graphics







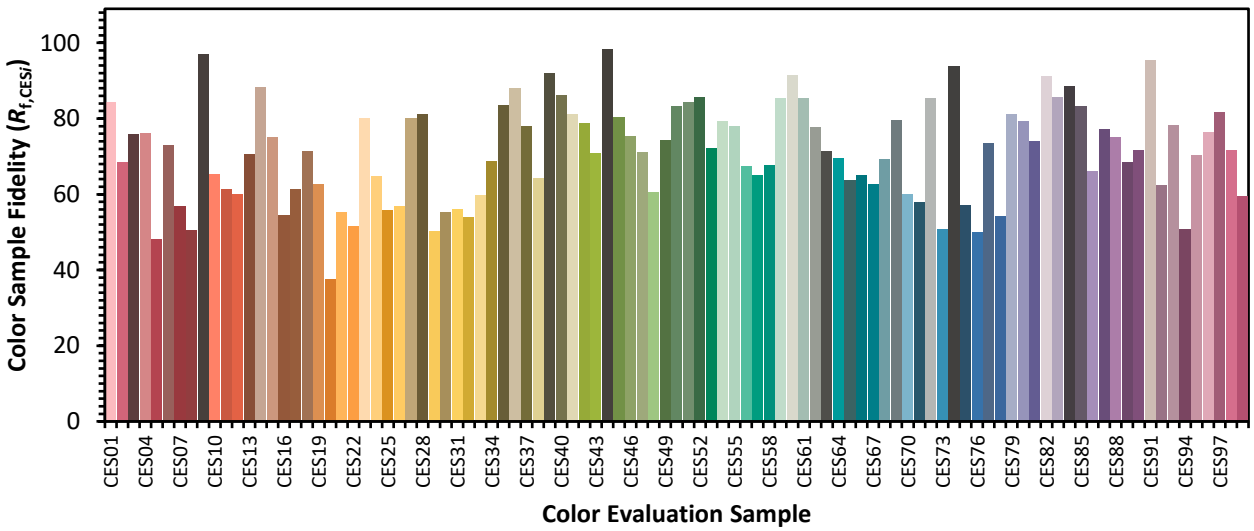


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Individual Sample Fidelity Index ($R_{f,i}$)

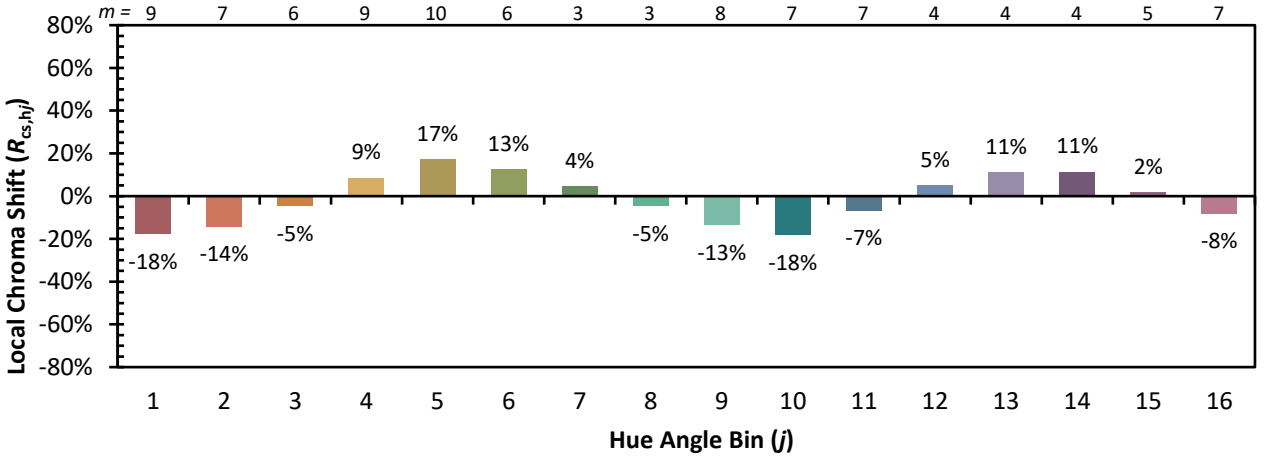
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	

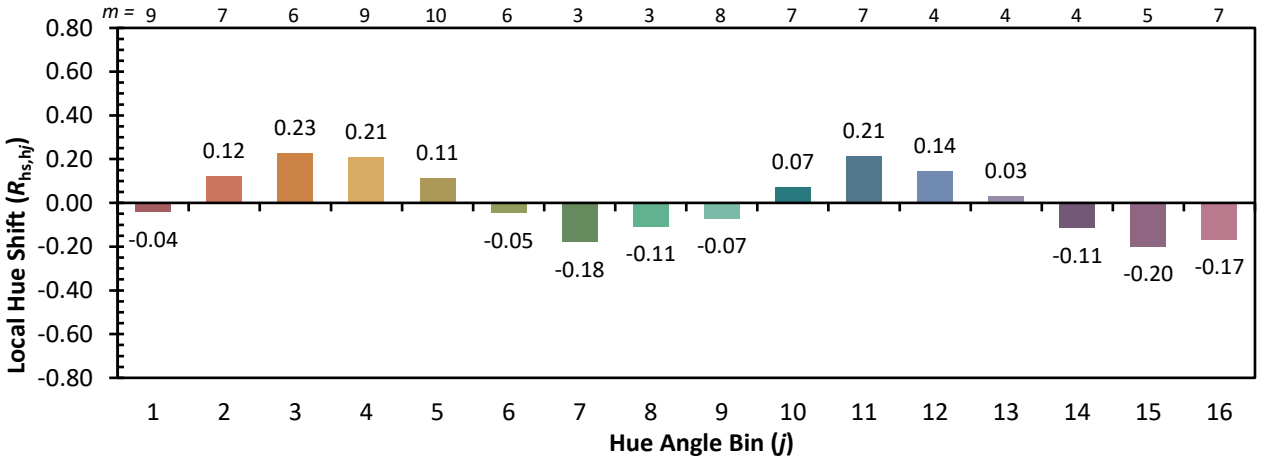


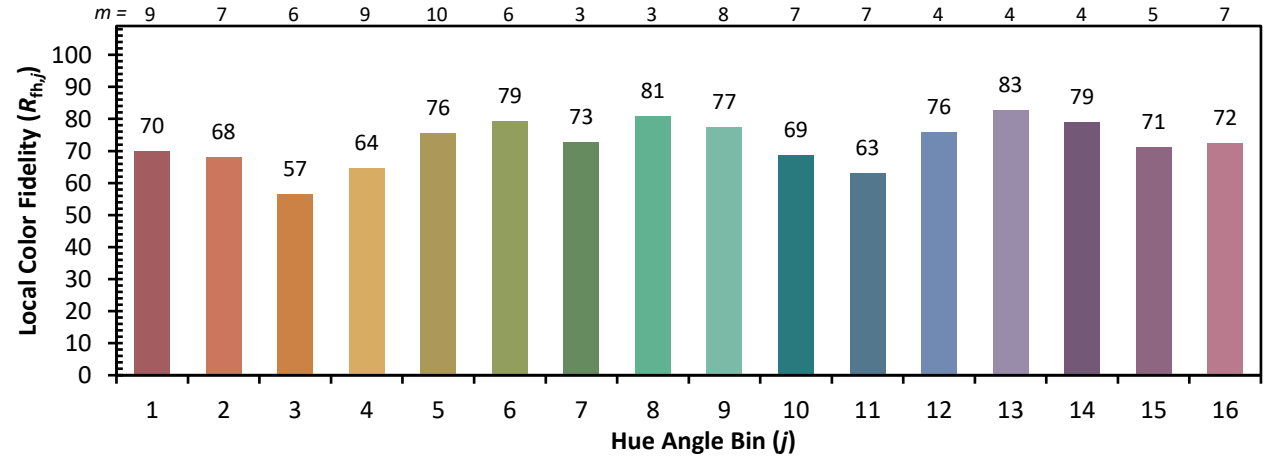
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Color Rendition by Hue-Angle Bin



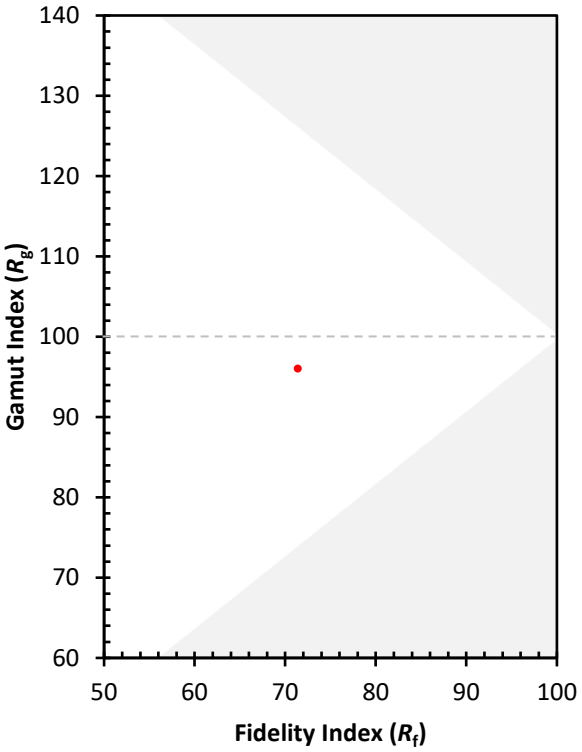


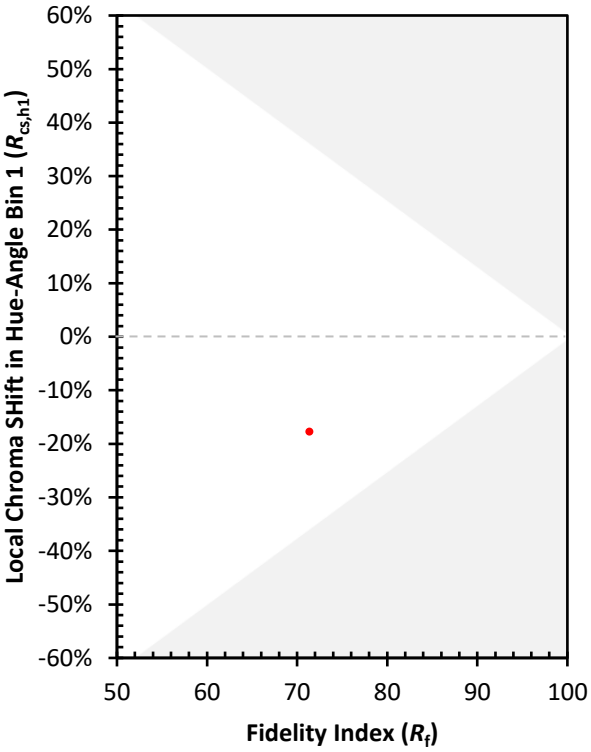


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Measure Comparisons





(END OF REPORT)