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: P1501954

Luminaire Tested: GSS-SB2B-840-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:	P1501954
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2B-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(52) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8127.1 lumens
Efficiency:	N/A
Efficacy:	109.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

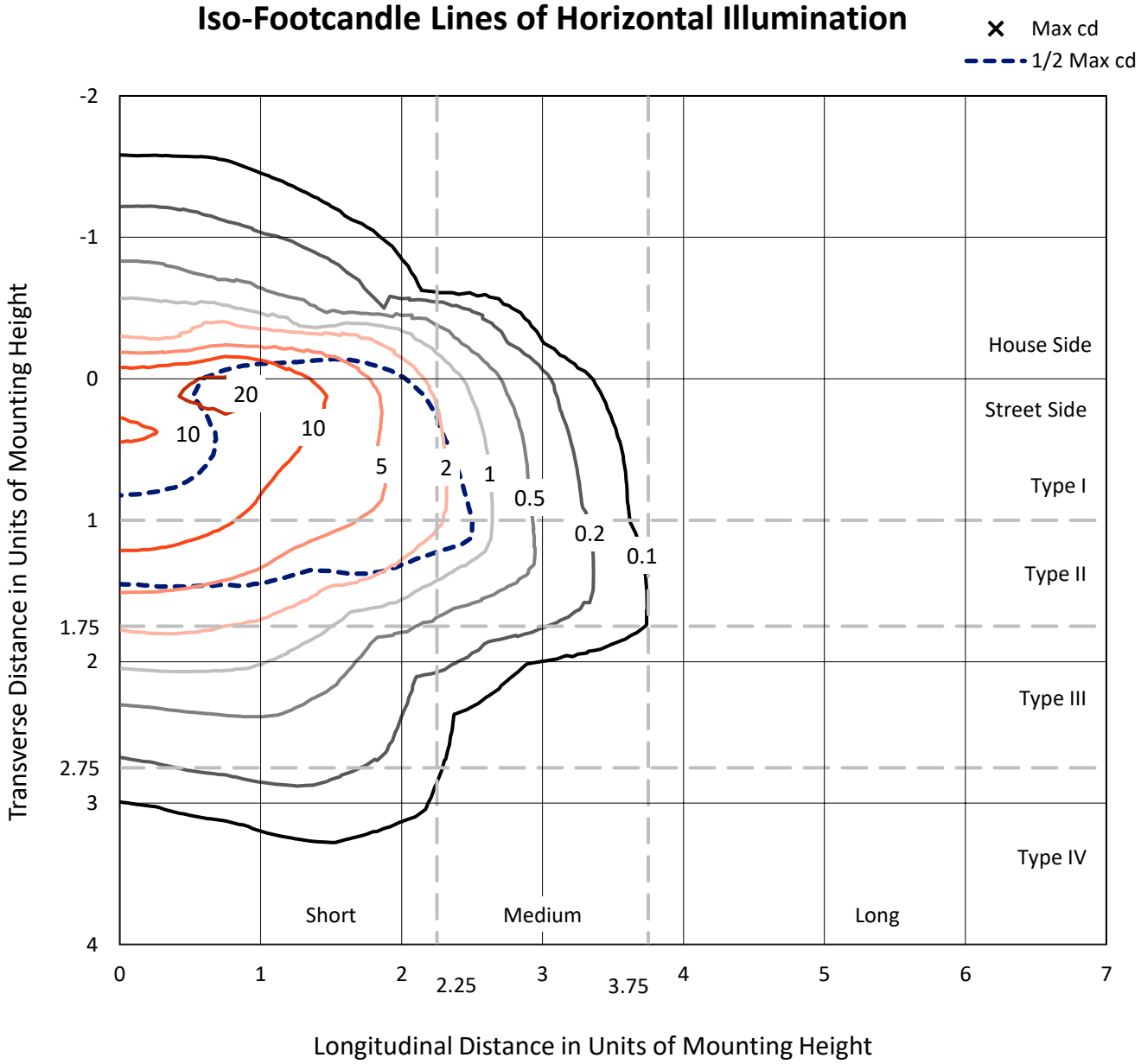
Input Watts (W):	74
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



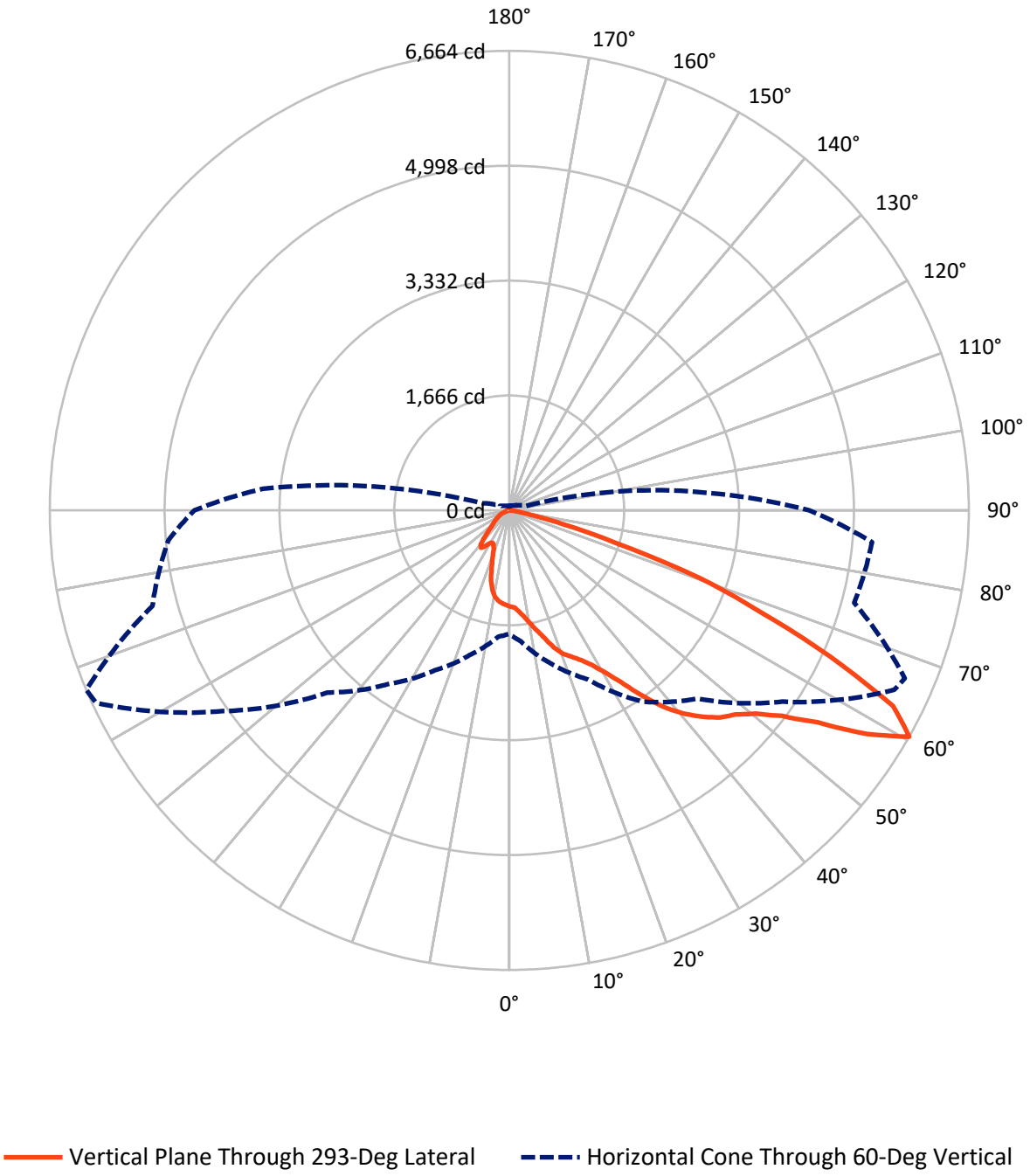
Based on 10 foot mounting height. Maximum calculated value = 23.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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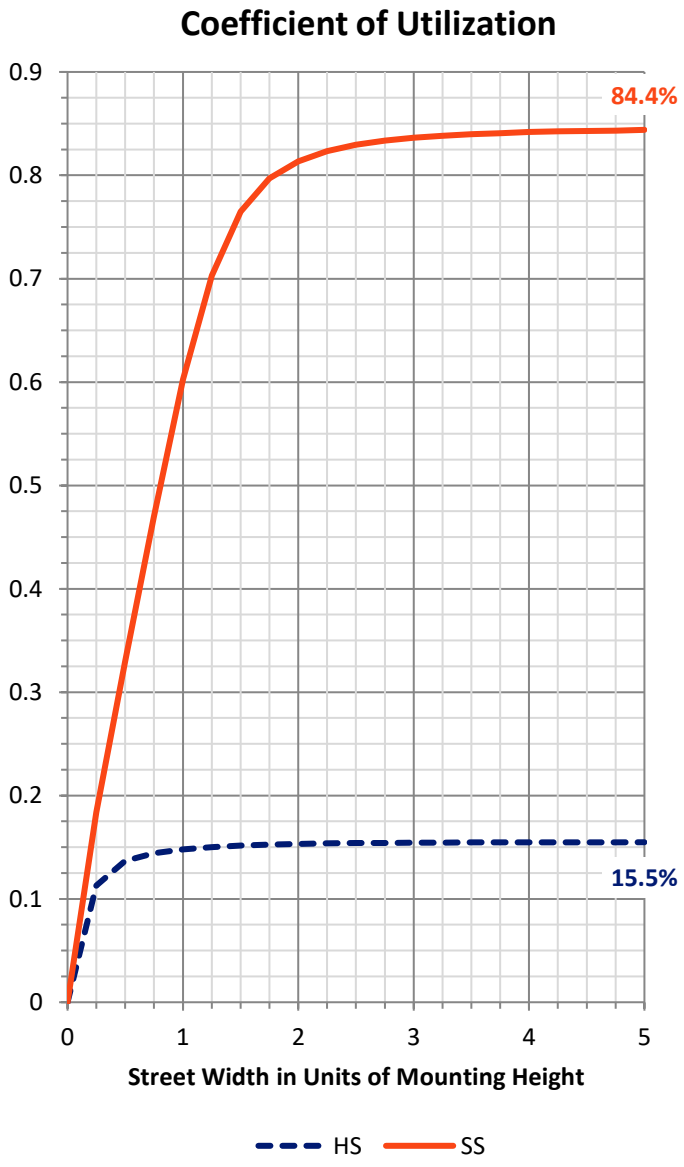
REPORT NUMBER: P1501954
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.0	0.0	1268.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	6859.1	0.0	6859.1
	% Fixture	84.4	0.0	84.4
Total	Lumens	8127.1	0.0	8127.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.6
10°-20°	317.7	3.9
20°-30°	593.0	7.3
30°-40°	1176.0	14.5
40°-50°	1874.9	23.1
50°-60°	2240.1	27.6
60°-70°	1468.5	18.1
70°-80°	307.7	3.8
80°-90°	23.3	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°	8127.1	100.0
0°-180°	8127.1	100.0



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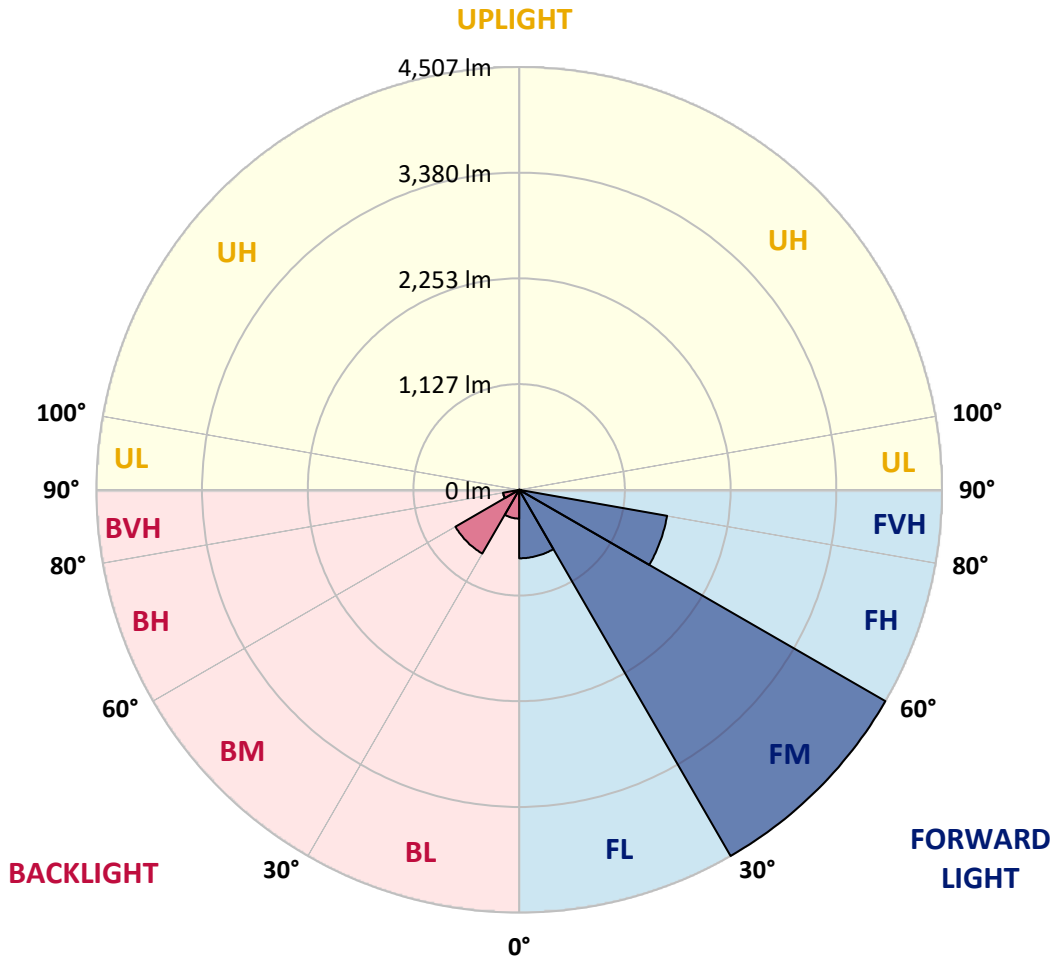
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	730.0	9.0			
FM	(30°-60°)	4506.8	55.5			
FH	(60°-80°)	1601.0	19.7			G1/1800
FVH	(80°-90°)	21.3	0.3			G1/100
BL	(0°-30°)	306.8	3.8	B1/500		
BM	(30°-60°)	784.1	9.6	B1/1000		
BH	(60°-80°)	175.2	2.2	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9
2.5°	1463.5	1458.9	1452.1	1454.4	1452.1	1443.0	1429.3	1417.9	1427.0	1413.4	1404.3
5°	1506.7	1506.7	1502.1	1502.1	1504.4	1499.9	1490.8	1474.8	1477.1	1465.7	1436.1
7.5°	1506.7	1499.9	1511.3	1522.6	1543.1	1554.5	1559.0	1549.9	1554.5	1531.7	1493.0
10°	1417.9	1413.4	1443.0	1486.2	1545.4	1597.7	1631.9	1634.2	1641.0	1618.2	1572.7
12.5°	1229.0	1219.9	1279.1	1361.0	1481.7	1602.3	1697.9	1734.3	1750.2	1741.1	1677.4
15°	1053.8	1065.2	1106.1	1194.9	1356.5	1540.8	1734.3	1854.9	1877.7	1889.1	1814.0
17.5°	1035.6	1037.8	1051.5	1094.7	1217.7	1440.7	1738.9	1980.1	2012.0	2062.0	1959.6
20°	1085.6	1081.1	1094.7	1108.4	1167.6	1351.9	1695.6	2100.7	2162.2	2269.2	2157.6
22.5°	1179.0	1179.0	1185.8	1194.9	1224.5	1345.1	1677.4	2212.3	2317.0	2535.4	2405.7
25°	1336.0	1317.8	1322.3	1311.0	1336.0	1427.0	1718.4	2301.0	2444.4	2831.3	2701.6
27.5°	1579.5	1586.4	1545.4	1483.9	1497.6	1575.0	1818.5	2401.2	2576.4	3138.6	3002.0
30°	1916.4	1905.0	1880.0	1759.3	1704.7	1773.0	2002.9	2565.0	2753.9	3527.8	3402.6
32.5°	2180.4	2212.3	2169.0	2084.8	2000.6	2021.1	2262.3	2829.0	2970.2	3885.1	3816.8
35°	2499.0	2499.0	2508.1	2389.8	2332.9	2328.3	2587.8	3115.8	3256.9	4208.3	4256.1
37.5°	2929.2	2899.6	2849.5	2717.5	2674.3	2731.2	2892.8	3411.7	3564.2	4470.0	4597.5
40°	3291.1	3311.6	3304.7	3113.5	3029.3	3090.8	3234.2	3664.3	3782.7	4638.5	4872.9
42.5°	3646.1	3657.5	3627.9	3536.9	3414.0	3418.5	3536.9	3855.5	3976.1	4800.0	5132.3
45°	3912.4	3910.1	3889.7	3866.9	3794.1	3719.0	3739.4	4067.2	4171.9	4852.4	5273.5
47.5°	3996.6	4014.8	4033.0	4096.8	4146.8	4028.5	3923.8	4181.0	4276.6	4843.3	5325.8
50°	3919.2	3957.9	4046.7	4142.3	4313.0	4303.9	4078.6	4303.9	4397.2	4893.4	5387.3
52.5°	3746.3	3785.0	3903.3	4076.3	4333.5	4460.9	4365.3	4511.0	4620.2	5020.8	5514.7
55°	3343.4	3359.4	3602.9	3830.5	4231.1	4392.6	4672.6	4861.5	4952.5	5175.6	5683.1
57.5°	2722.1	2760.8	2999.7	3370.7	3944.3	4212.8	4847.8	5460.1	5457.8	5323.5	5719.5
60°	*1791.2*	*1905.0*	*2294.2*	*2703.9*	*3388.9*	*3860.1*	*4836.5*	*6161.1*	*6231.6*	*5177.9*	*5280.3*
62.5°	1367.9	1415.7	1636.4	1977.8	2508.1	3200.0	4761.4	6370.5	6425.1	4786.4	4622.5
65°	1028.7	1087.9	1299.6	1604.6	1770.7	2169.0	4269.7	5537.5	5612.6	4272.0	3593.8
67.5°	630.4	678.2	960.5	1317.8	1340.6	1347.4	2881.4	4194.6	4221.9	3445.8	2419.4
70°	421.1	468.9	664.6	1012.8	1067.4	776.1	1581.8	3175.0	3172.7	2357.9	1470.3
72.5°	243.5	266.3	421.1	746.5	839.8	493.9	789.8	2018.8	1930.0	1108.4	687.3
75°	138.8	154.8	232.2	480.2	589.5	314.1	311.8	1081.1	955.9	571.3	375.5
77.5°	84.2	91.0	127.5	314.1	355.1	211.7	173.0	503.0	484.8	334.6	198.0
80°	41.0	47.8	77.4	184.4	227.6	113.8	104.7	198.0	211.7	184.4	104.7
82.5°	13.7	18.2	43.2	70.6	147.9	45.5	43.2	109.2	116.1	109.2	50.1
85°	6.8	9.1	20.5	22.8	56.9	22.8	15.9	47.8	59.2	36.4	20.5
87.5°	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	4.6	4.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9
2.5°	1397.5	1392.9	1383.8	1367.9	1365.6	1354.2	1336.0	1324.6	1315.5	1322.3	1324.6
5°	1422.5	1411.1	1383.8	1340.6	1295.0	1249.5	1206.3	1156.2	1122.1	1117.5	1108.4
7.5°	1468.0	1445.2	1386.1	1301.9	1185.8	1076.5	949.1	826.2	764.7	755.6	735.1
10°	1540.8	1502.1	1404.3	1233.6	1010.5	782.9	589.5	457.5	382.4	368.7	373.3
12.5°	1627.3	1572.7	1406.6	1117.5	769.3	484.8	334.6	284.5	268.6	261.7	261.7
15°	1738.9	1659.2	1404.3	967.3	518.9	311.8	268.6	248.1	241.3	236.7	236.7
17.5°	1880.0	1775.3	1388.3	742.0	350.5	270.8	245.8	229.9	220.8	218.5	218.5
20°	2046.1	1905.0	1351.9	553.1	293.6	252.6	232.2	211.7	204.8	200.3	200.3
22.5°	2257.8	2062.0	1281.4	430.2	277.7	241.3	218.5	195.7	188.9	184.4	184.4
25°	2503.6	2262.3	1188.1	386.9	275.4	232.2	204.8	182.1	175.3	173.0	170.7
27.5°	2794.9	2476.3	1101.6	389.2	279.9	225.3	191.2	170.7	163.9	157.0	159.3
30°	3138.6	2697.0	1031.0	416.5	284.5	218.5	182.1	163.9	157.0	147.9	147.9
32.5°	3477.7	2956.5	1024.2	466.6	300.4	213.9	173.0	154.8	147.9	141.1	141.1
35°	3825.9	3193.2	1062.9	532.6	332.3	207.1	161.6	145.7	138.8	134.3	132.0
37.5°	4158.2	3382.1	1099.3	573.5	314.1	177.5	147.9	134.3	127.5	118.4	118.4
40°	4379.0	3484.5	1106.1	541.7	259.5	159.3	134.3	120.6	111.5	107.0	104.7
42.5°	4540.6	3550.5	1028.7	439.3	225.3	145.7	122.9	109.2	102.4	97.9	97.9
45°	4606.6	3527.8	896.7	334.6	207.1	134.3	111.5	100.1	95.6	91.0	91.0
47.5°	4597.5	3423.1	762.5	268.6	188.9	122.9	104.7	95.6	91.0	86.5	84.2
50°	4581.6	3325.2	625.9	239.0	168.4	116.1	97.9	91.0	84.2	79.7	77.4
52.5°	4686.2	3293.3	518.9	218.5	157.0	111.5	95.6	86.5	79.7	75.1	75.1
55°	4790.9	3307.0	407.4	204.8	145.7	109.2	93.3	84.2	77.4	70.6	70.6
57.5°	4784.1	3247.8	309.5	191.2	136.6	107.0	91.0	81.9	70.6	66.0	66.0
60°	*4349.4*	*2897.3*	*241.3*	*175.3*	*125.2*	*100.1*	*84.2*	*77.4*	*66.0*	*59.2*	*59.2*
62.5°	3678.0	2278.3	198.0	154.8	111.5	91.0	77.4	70.6	59.2	47.8	47.8
65°	2717.5	1643.3	159.3	134.3	102.4	79.7	70.6	61.5	47.8	38.7	36.4
67.5°	1839.0	1010.5	127.5	111.5	91.0	68.3	59.2	52.3	43.2	31.9	29.6
70°	1090.2	537.1	93.3	77.4	68.3	50.1	50.1	45.5	36.4	27.3	25.0
72.5°	518.9	186.6	68.3	56.9	52.3	36.4	38.7	38.7	29.6	20.5	18.2
75°	264.0	91.0	45.5	41.0	34.1	27.3	31.9	29.6	20.5	13.7	13.7
77.5°	150.2	63.7	31.9	27.3	22.8	18.2	20.5	18.2	11.4	6.8	6.8
80°	84.2	45.5	20.5	18.2	13.7	11.4	11.4	9.1	6.8	2.3	2.3
82.5°	31.9	27.3	13.7	9.1	6.8	6.8	4.6	4.6	2.3	0.0	0.0
85°	13.7	6.8	6.8	4.6	4.6	2.3	2.3	2.3	0.0	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	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°	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9
2.5°	1306.4	1311.0	1315.5	1333.7	1338.3	1351.9	1363.3	1377.0	1379.2	1397.5	1397.5
5°	1126.6	1124.3	1163.0	1219.9	1256.3	1306.4	1345.1	1386.1	1408.8	1438.4	1452.1
7.5°	746.5	803.4	889.9	990.1	1119.8	1240.4	1331.5	1411.1	1465.7	1499.9	1513.5
10°	371.0	402.8	493.9	657.8	878.5	1124.3	1317.8	1465.7	1554.5	1593.2	1618.2
12.5°	261.7	268.6	284.5	373.3	584.9	933.2	1274.6	1524.9	1647.8	1720.6	1752.5
15°	234.4	239.0	245.8	270.8	361.9	696.5	1197.2	1590.9	1793.5	1877.7	1918.7
17.5°	216.2	218.5	225.3	245.8	284.5	473.4	1072.0	1661.5	1968.7	2071.1	2148.5
20°	200.3	200.3	207.1	232.2	264.0	364.2	892.2	1741.1	2191.8	2339.7	2417.1
22.5°	182.1	186.6	191.2	218.5	257.2	332.3	723.8	1802.6	2439.9	2619.7	2710.7
25°	168.4	173.0	177.5	204.8	250.4	332.3	625.9	1841.3	2717.5	2931.5	3056.6
27.5°	157.0	161.6	168.4	195.7	243.5	345.9	587.2	1852.7	3020.2	3297.9	3466.3
30°	147.9	152.5	159.3	188.9	248.1	361.9	600.9	1836.7	3327.5	3675.7	3876.0
32.5°	138.8	143.4	150.2	182.1	248.1	382.4	646.4	1804.9	3625.6	4053.5	4299.3
35°	132.0	134.3	136.6	163.9	225.3	380.1	703.3	1773.0	3926.1	4426.8	4713.6
37.5°	118.4	120.6	125.2	141.1	179.8	345.9	714.7	1734.3	4162.8	4740.9	5057.2
40°	104.7	109.2	113.8	129.7	150.2	279.9	664.6	1652.4	4288.0	4982.1	5366.8
42.5°	95.6	97.9	102.4	118.4	138.8	223.0	557.6	1509.0	4399.5	5146.0	5592.1
45°	88.8	91.0	95.6	107.0	129.7	193.5	439.3	1333.7	4408.6	5198.3	5701.3
47.5°	81.9	84.2	86.5	97.9	125.2	173.0	336.8	1174.4	4406.3	5266.6	5794.7
50°	77.4	79.7	84.2	93.3	118.4	154.8	277.7	1044.7	4501.9	5414.6	5983.6
52.5°	75.1	75.1	81.9	91.0	111.5	141.1	232.2	928.6	4552.0	5560.2	6120.1
55°	70.6	72.8	77.4	86.5	104.7	134.3	198.0	782.9	4574.7	5633.1	6145.2
57.5°	66.0	68.3	75.1	81.9	100.1	127.5	170.7	584.9	4249.3	5253.0	5726.4
60°	*59.2*	*63.7*	*72.8*	*79.7*	*93.3*	*116.1*	*150.2*	*396.0*	*3584.7*	*4565.6*	*4961.6*
62.5°	47.8	56.9	66.0	70.6	84.2	97.9	127.5	264.0	2863.2	3778.1	4228.8
65°	36.4	47.8	54.6	61.5	70.6	81.9	107.0	179.8	1909.6	2542.3	3049.8
67.5°	31.9	41.0	45.5	50.1	59.2	70.6	86.5	125.2	1158.5	1527.2	2027.9
70°	25.0	34.1	38.7	36.4	45.5	54.6	61.5	84.2	591.8	828.5	1153.9
72.5°	18.2	27.3	29.6	29.6	27.3	38.7	45.5	59.2	257.2	402.8	523.5
75°	13.7	18.2	20.5	18.2	15.9	25.0	31.9	38.7	168.4	241.3	305.0
77.5°	6.8	6.8	11.4	11.4	6.8	13.7	15.9	22.8	95.6	141.1	175.3
80°	2.3	0.0	0.0	2.3	0.0	4.6	6.8	11.4	50.1	75.1	109.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	25.0	22.8	56.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	13.7
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: P1501954
CATALOG NUMBER: GSS-SB2B-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1392.9	*1392.9*	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9	1392.9
2.5°	1408.8	*1408.8*	1417.9	1431.6	1438.4	1443.0	1445.2	1449.8	1468.0	1463.5
5°	1468.0	*1472.6*	1479.4	1493.0	1509.0	1504.4	1504.4	1504.4	1515.8	1506.7
7.5°	1545.4	*1559.0*	1561.3	1577.3	1565.9	1543.1	1529.5	1509.0	1506.7	1506.7
10°	1670.6	*1666.0*	1666.0	1645.5	1604.6	1538.6	1479.4	1438.4	1415.7	1417.9
12.5°	1804.9	*1786.6*	1788.9	1713.8	1597.7	1452.1	1331.5	1242.7	1235.9	1229.0
15°	1971.0	*1923.2*	1914.1	1741.1	1495.3	1272.3	1153.9	1083.4	1060.6	1053.8
17.5°	2207.7	*2087.1*	2043.8	1693.3	1361.0	1160.8	1072.0	1040.1	1037.8	1035.6
20°	2458.1	*2219.1*	2137.1	1622.8	1315.5	1163.0	1097.0	1087.9	1083.4	1085.6
22.5°	2749.4	*2303.3*	2198.6	1634.2	1356.5	1238.1	1185.8	1179.0	1174.4	1179.0
25°	3049.8	*2401.2*	2271.4	1725.2	1479.4	1377.0	1315.5	1301.9	1315.5	1336.0
27.5°	3352.5	*2533.2*	2414.8	1905.0	1677.4	1565.9	1506.7	1556.8	1577.3	1579.5
30°	3621.1	*2717.5*	2608.3	2157.6	1902.7	1791.2	1802.6	1866.3	1891.3	1916.4
32.5°	3866.9	*2963.3*	2879.1	2444.4	2194.0	2128.0	2121.2	2169.0	2196.3	2180.4
35°	4115.0	*3284.2*	3202.3	2756.2	2551.4	2496.8	2439.9	2533.2	2524.1	2499.0
37.5°	4349.4	*3607.4*	3532.3	3090.8	2879.1	2783.5	2774.4	2858.6	2933.7	2929.2
40°	4517.8	*3869.2*	3778.1	3423.1	3222.8	3140.9	3188.7	3334.3	3316.1	3291.1
42.5°	4672.6	*4092.2*	4010.3	3714.4	3505.0	3541.4	3584.7	3682.5	3671.2	3646.1
45°	4745.4	*4283.4*	4212.8	3935.2	3832.8	3948.8	3946.6	3983.0	3921.5	3912.4
47.5°	4847.8	*4420.0*	4347.1	4133.2	4224.2	4272.0	4137.7	4099.0	4042.1	3996.6
50°	5036.8	*4631.6*	4558.8	4433.6	4511.0	4363.1	4199.2	4115.0	3998.9	3919.2
52.5°	5257.5	*4952.5*	4888.8	4838.7	4622.5	4317.5	4108.2	3955.7	3814.5	3746.3
55°	5535.2	*5425.9*	5380.4	5105.0	4522.4	4130.9	3885.1	3600.6	3407.1	3343.4
57.5°	5626.2	*6120.1*	6104.2	5148.3	4242.4	3791.8	3348.0	2963.3	2763.0	2722.1
60°	*5357.7*	*6664.1*	*6607.2*	*5075.4*	*3734.9*	*3077.1*	*2558.2*	*2164.5*	*1839.0*	*1791.2*
62.5°	5014.0	*6247.6*	6227.1	4709.0	2845.0	2205.4	1911.8	1543.1	1404.3	1367.9
65°	4294.8	*5111.9*	5121.0	3778.1	1800.3	1584.1	1570.4	1226.8	1056.1	1028.7
67.5°	3307.0	*3921.5*	3857.8	2376.1	1049.2	1267.7	1254.1	896.7	648.7	630.4
70°	1932.3	*2920.1*	2817.7	1235.9	694.2	1058.3	965.0	630.4	441.5	421.1
72.5°	853.5	*1606.8*	1725.2	544.0	489.3	842.1	696.5	386.9	248.1	243.5
75°	473.4	*796.6*	833.0	236.7	343.7	598.6	421.1	216.2	141.1	138.8
77.5°	284.5	*352.8*	343.7	152.5	257.2	382.4	254.9	122.9	88.8	84.2
80°	159.3	*161.6*	136.6	111.5	152.5	213.9	143.4	77.4	41.0	41.0
82.5°	97.9	*88.8*	70.6	34.1	41.0	129.7	52.3	43.2	13.7	13.7
85°	41.0	*27.3*	18.2	6.8	15.9	34.1	18.2	20.5	6.8	6.8
87.5°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

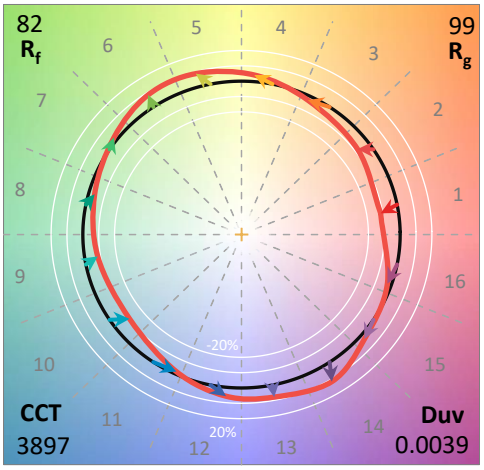
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

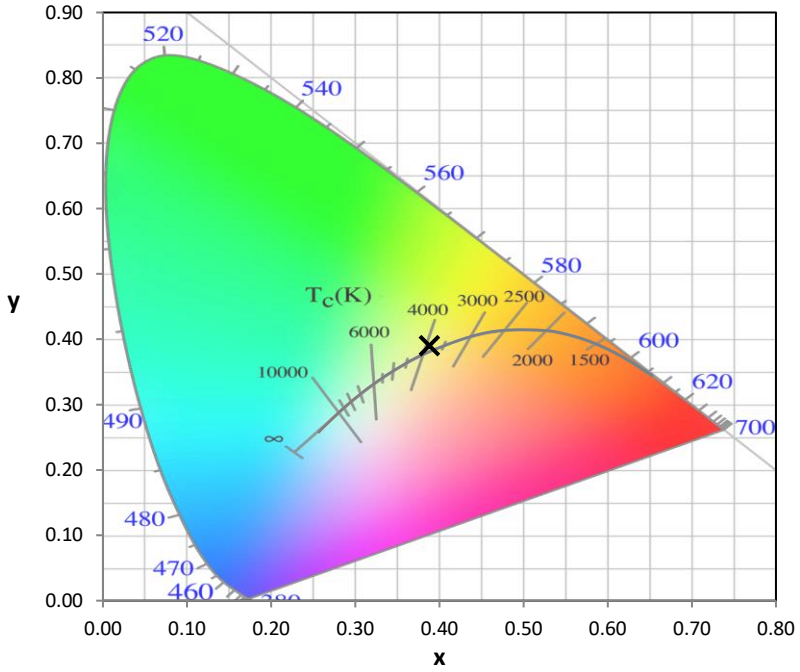
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

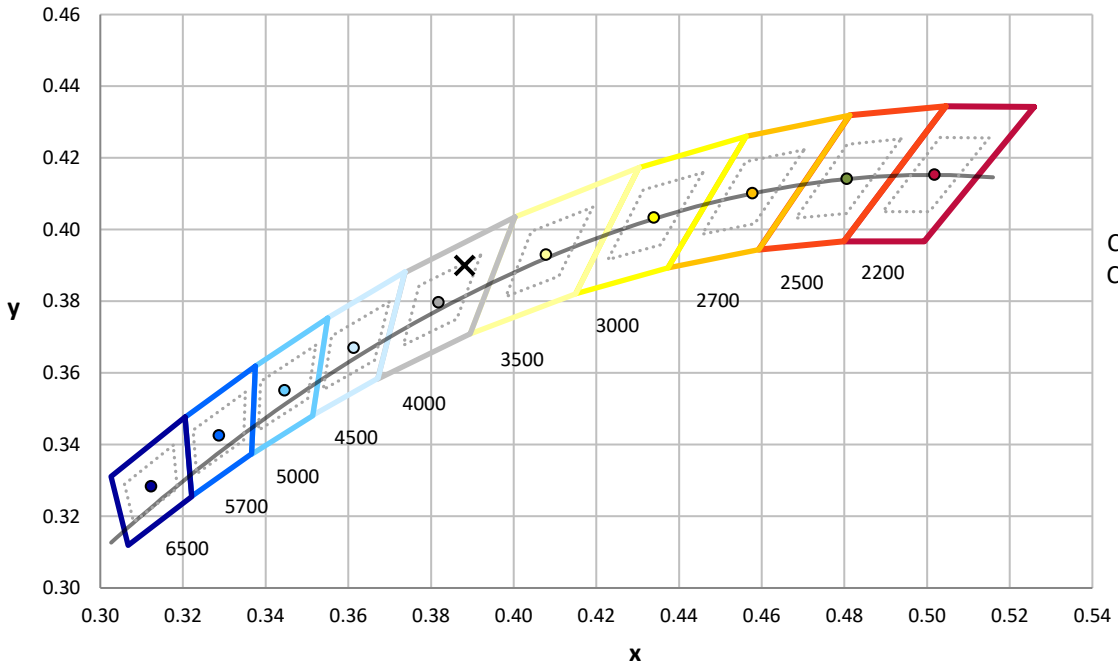
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

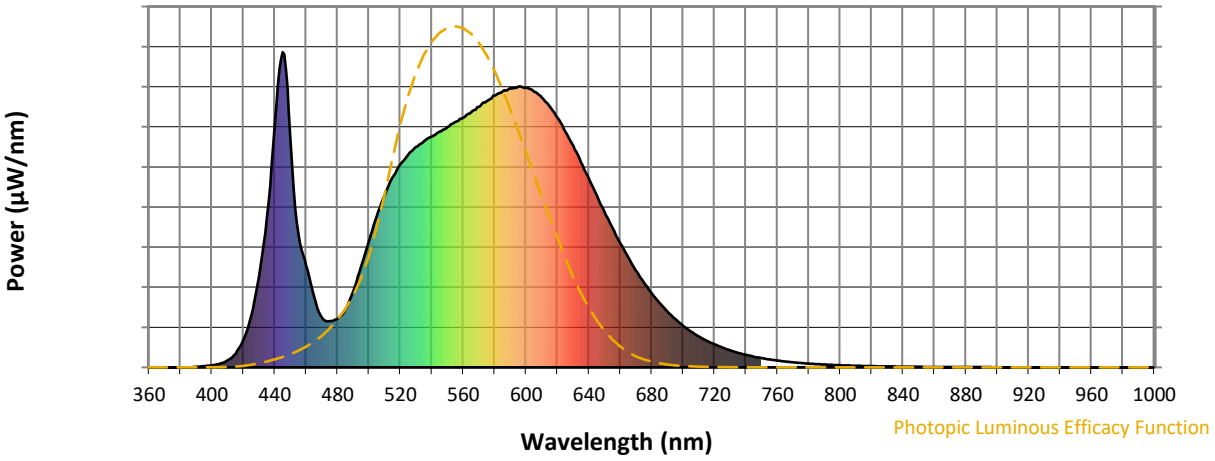


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

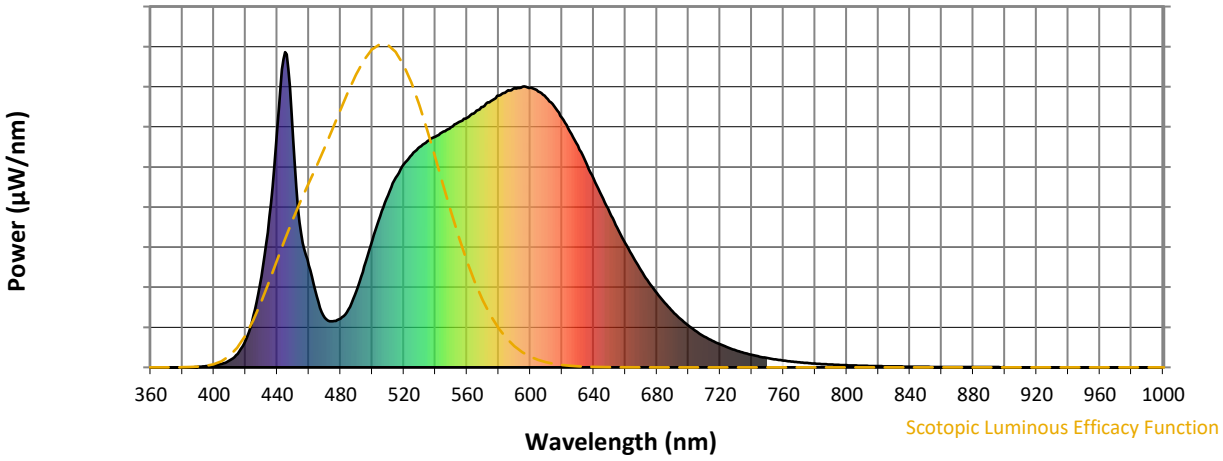


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

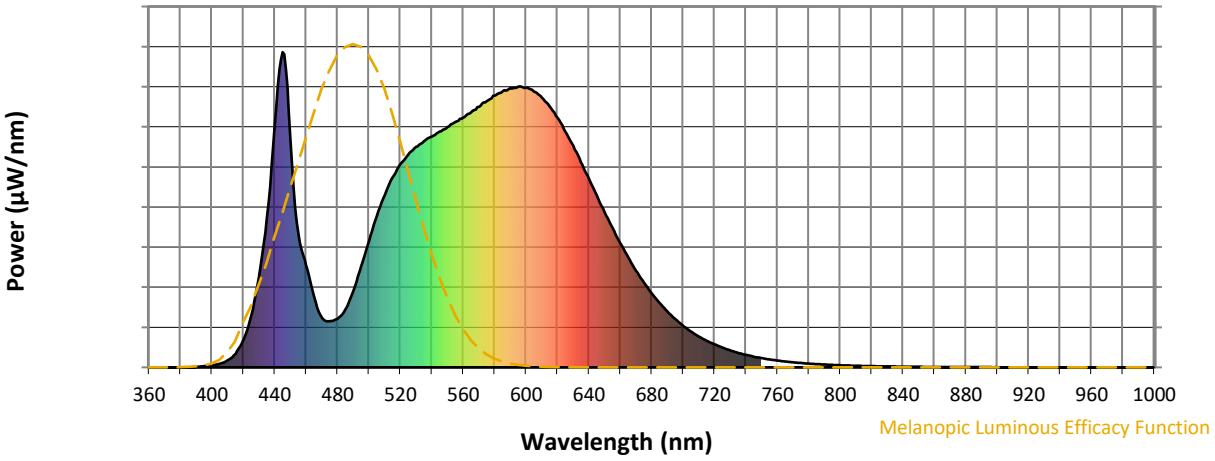


Scotopic Lumens: NR **S/P: 1.57**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

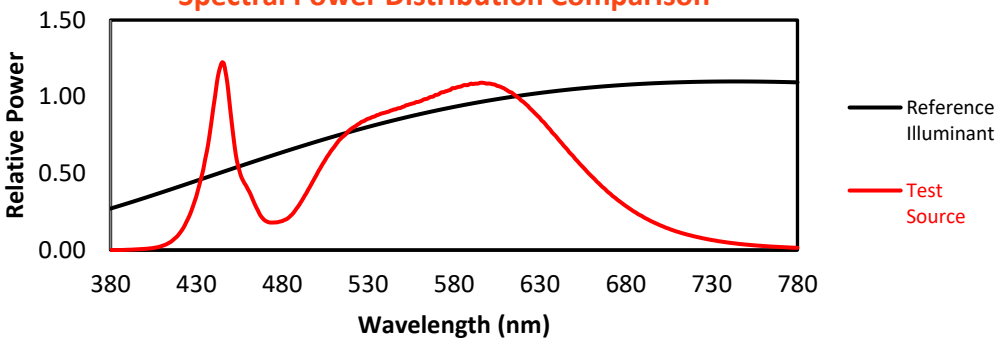
REPORT NUMBER: SP1-2407-184-11

TM-30-18

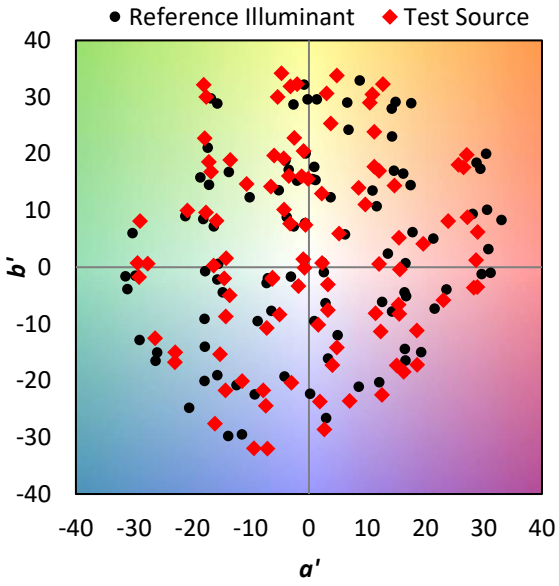
Summary

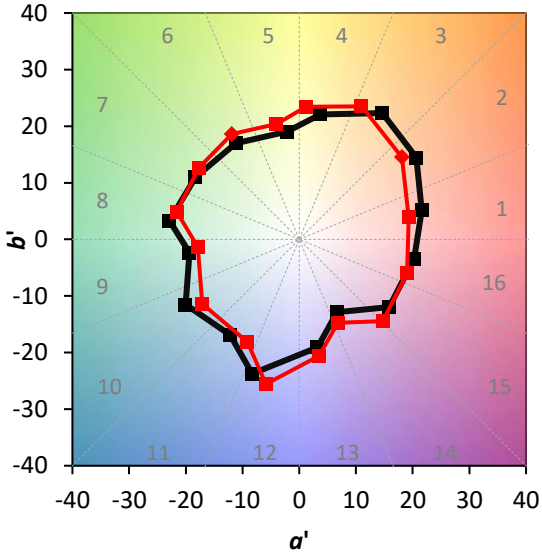
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

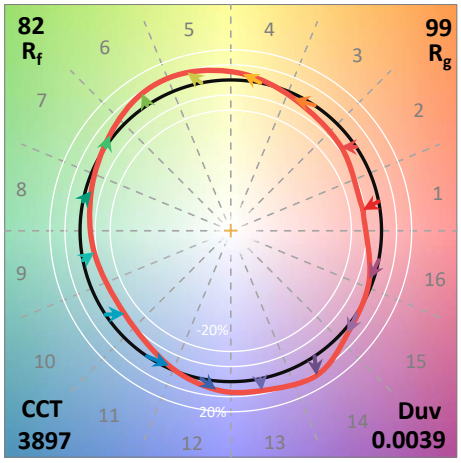
Spectral Power Distribution Comparison

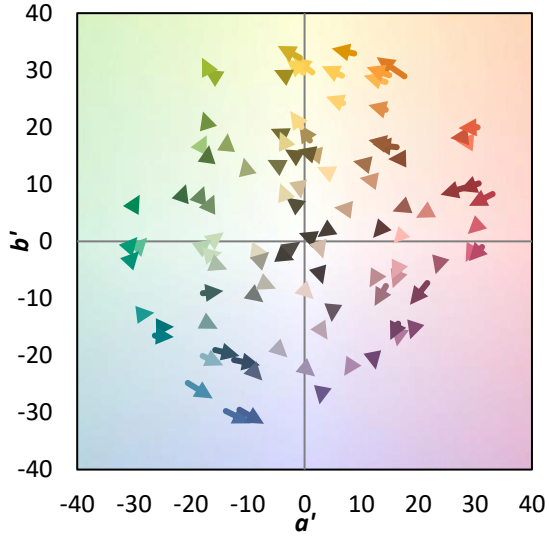


Color Vector Graphics







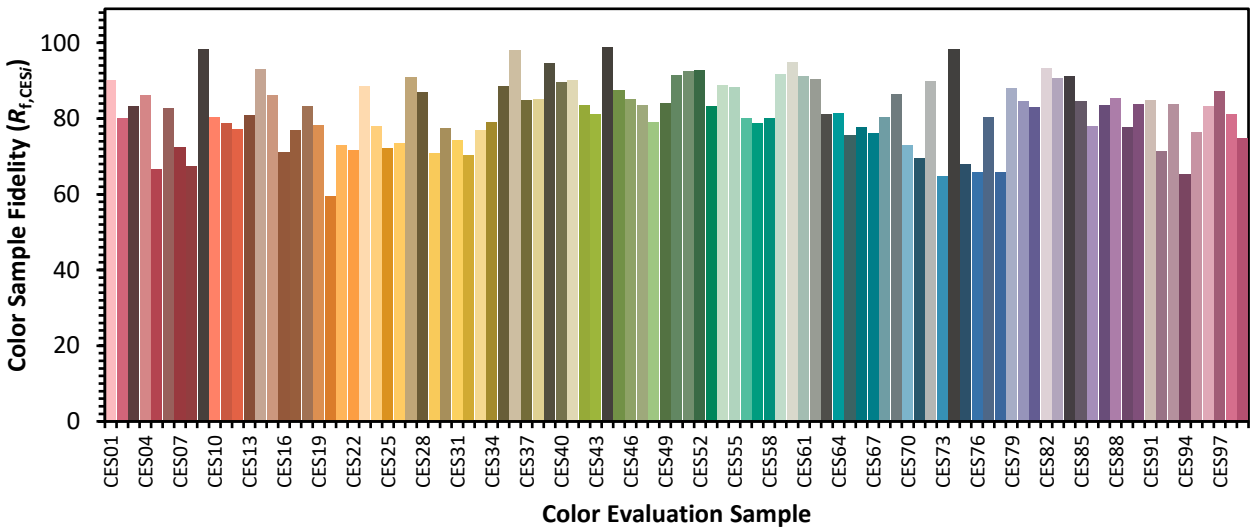


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Individual Sample Fidelity Index ($R_{f,i}$)

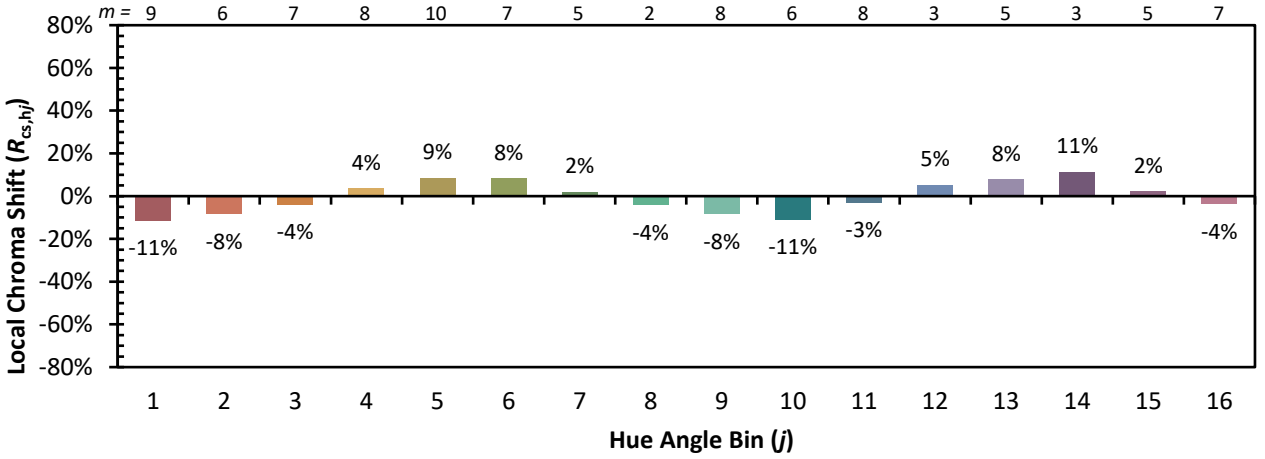
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

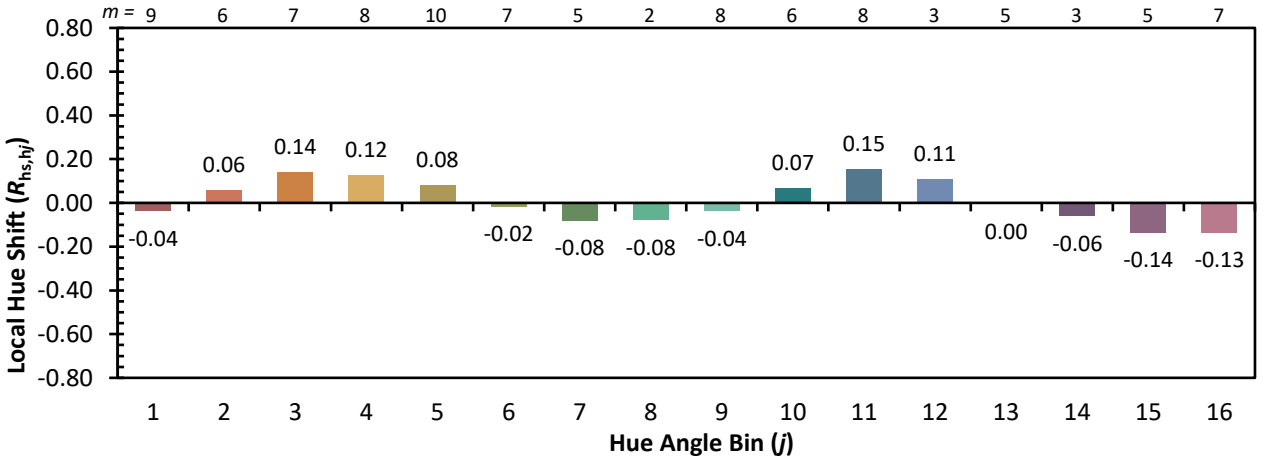


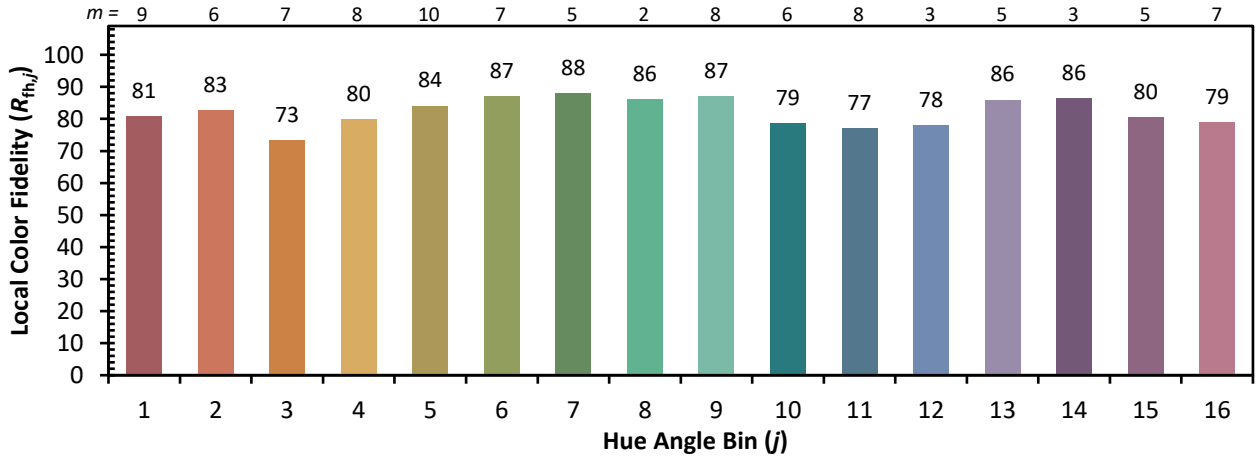
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Color Rendition by Hue-Angle Bin



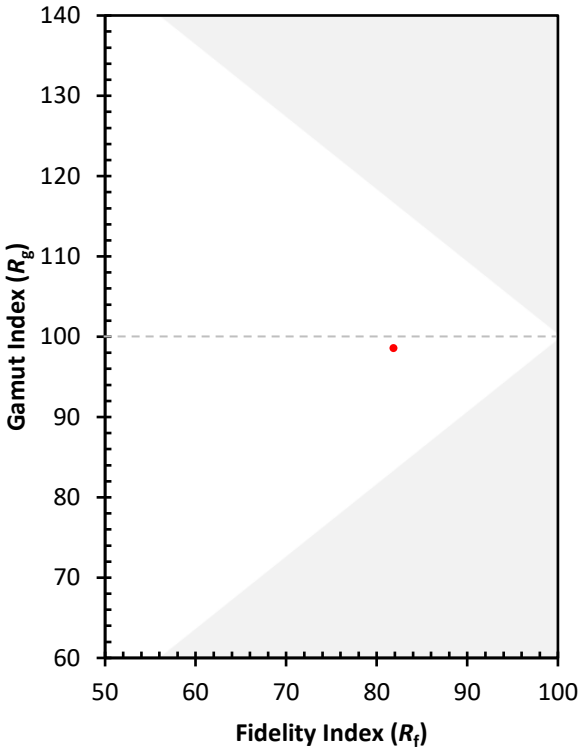


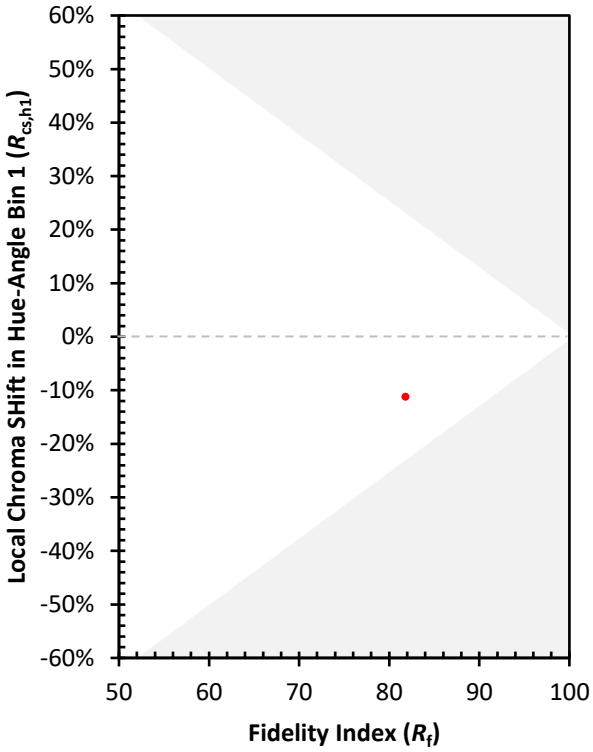


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Measure Comparisons





(END OF REPORT)