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: P1501499

Luminaire Tested: GSS-SB2C-827-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501499
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2C-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 102W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11973.5 lumens
Efficiency:	N/A
Efficacy:	117.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

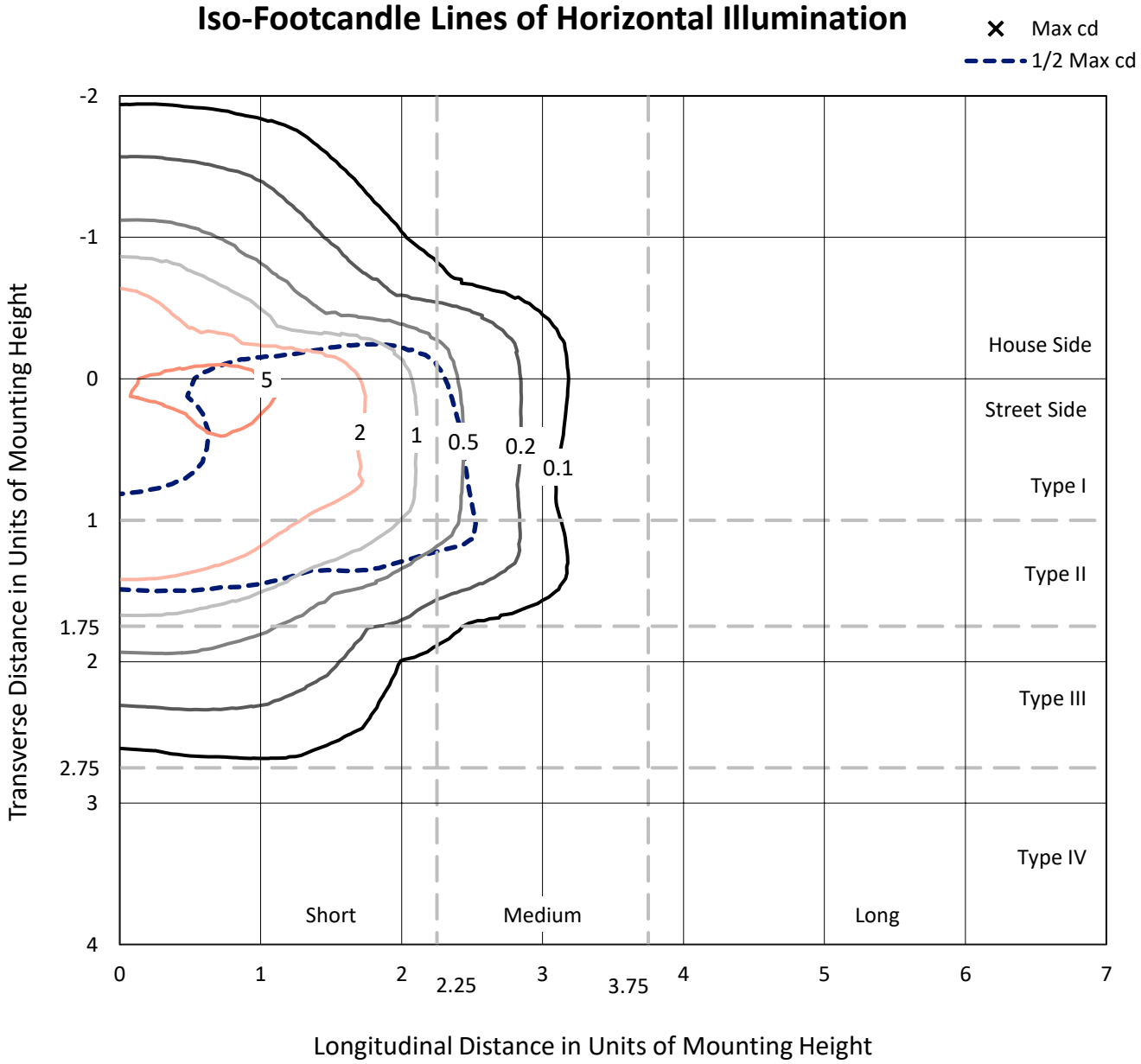
Input Watts (W):	102
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



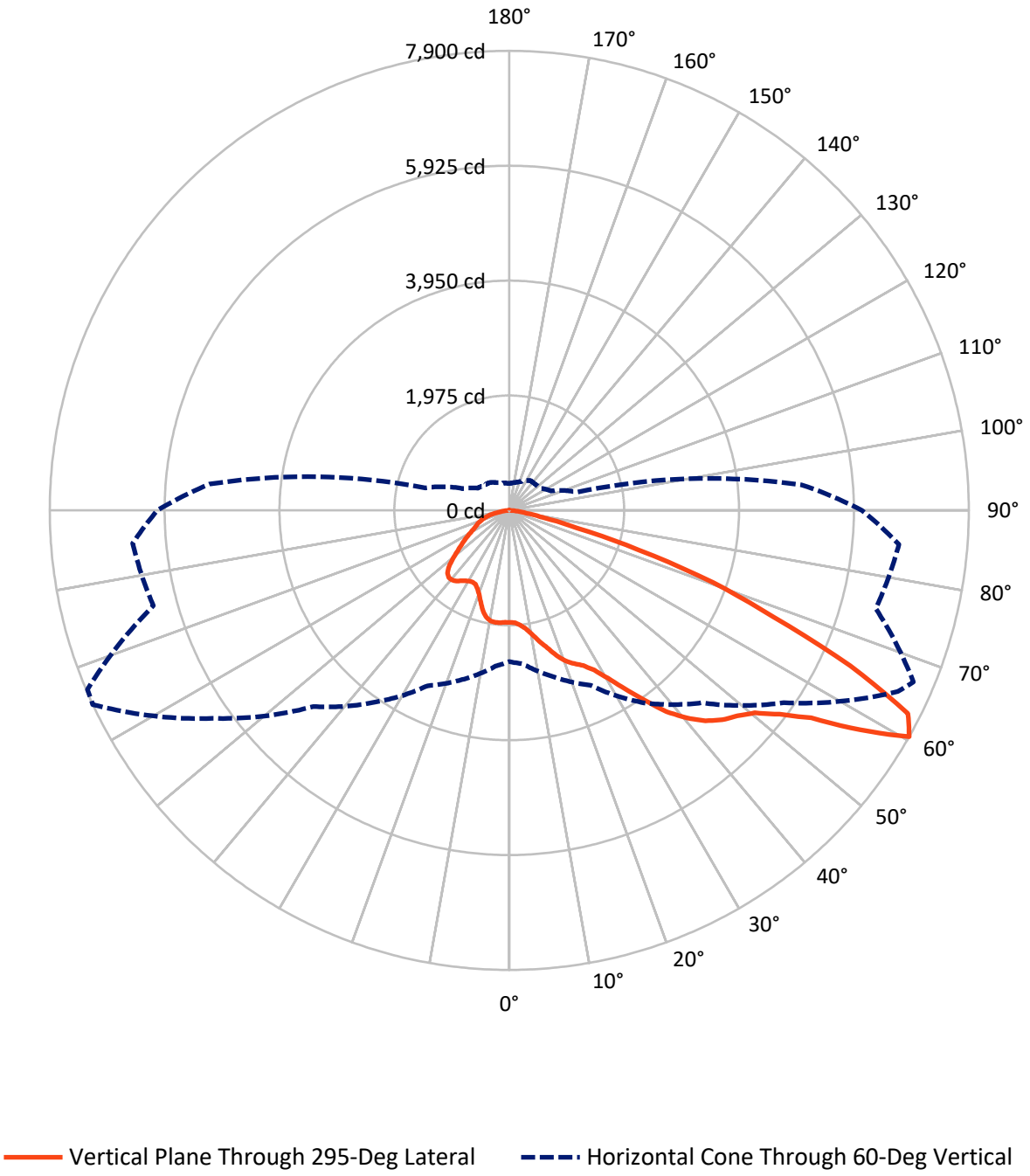
Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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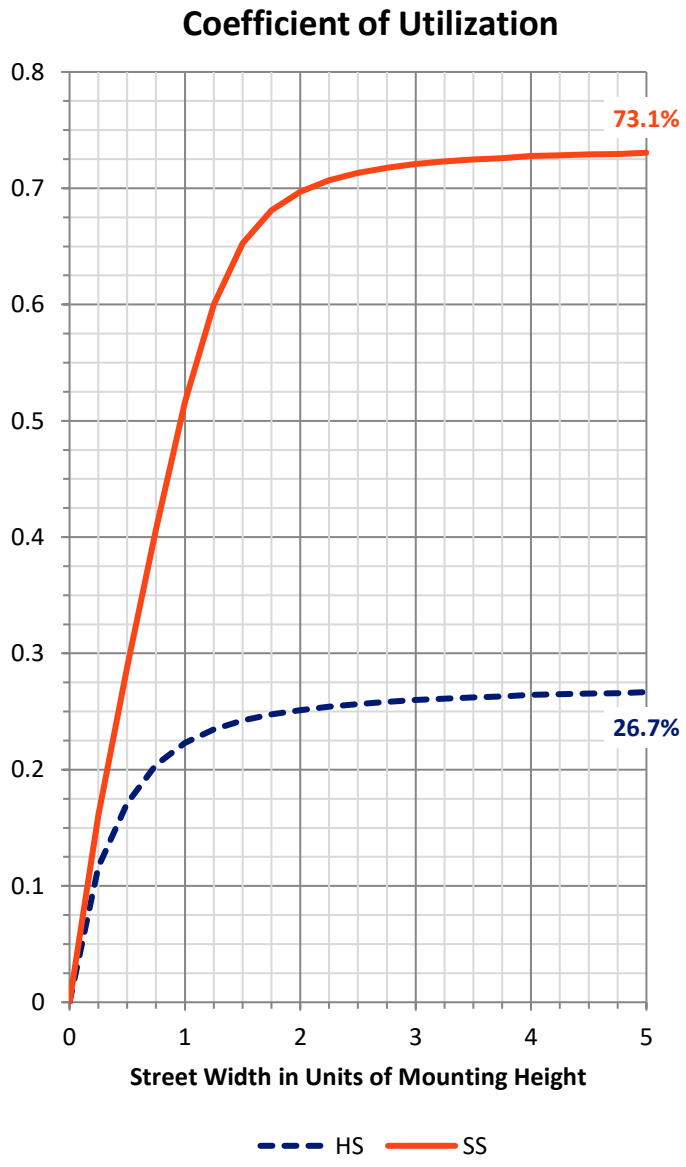
REPORT NUMBER: P1501499
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3219.8	0.0	3219.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8753.7	0.0	8753.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	11973.5	0.0	11973.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.5
10°-20°	520.7	4.3
20°-30°	986.3	8.2
30°-40°	1738.8	14.5
40°-50°	2571.5	21.5
50°-60°	3019.6	25.2
60°-70°	2187.9	18.3
70°-80°	674.7	5.6
80°-90°	92.9	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°	11973.5	100.0
0°-180°	11973.5	100.0



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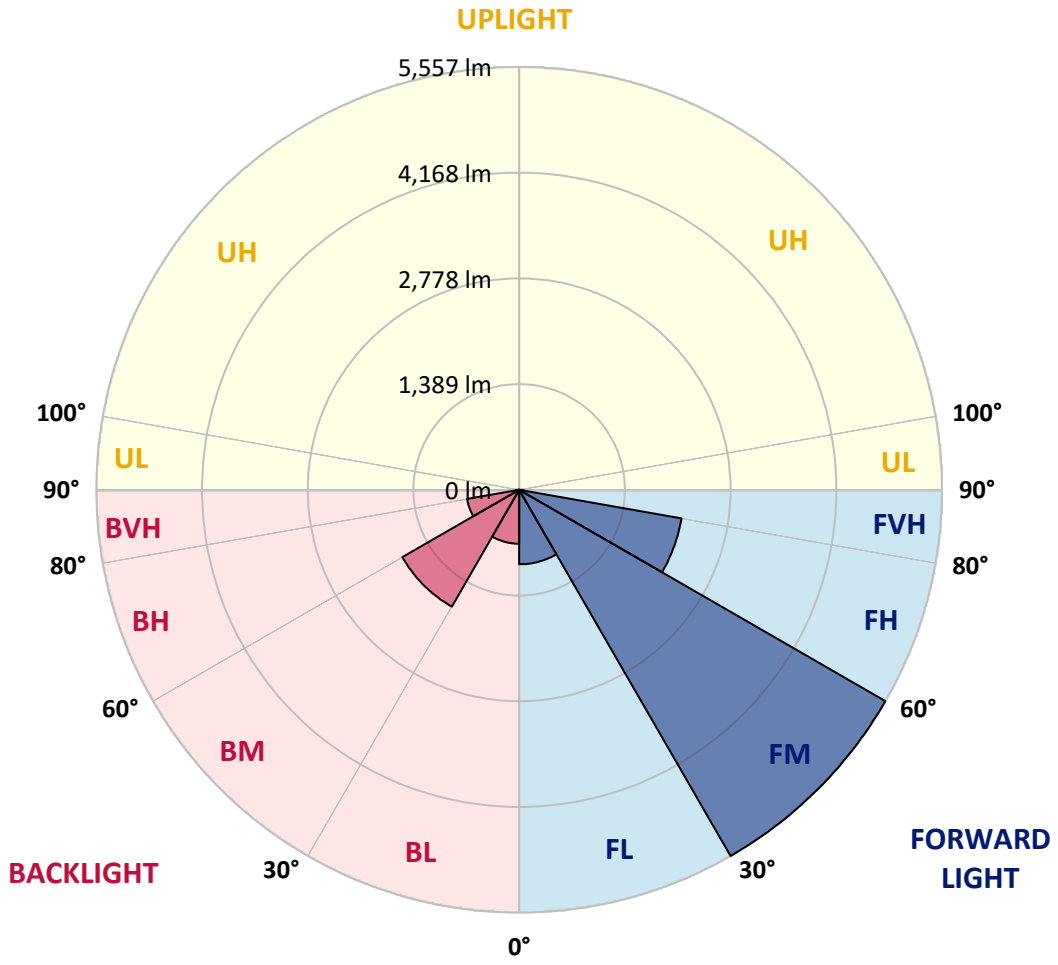
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	979.0	8.2			
FM	(30°-60°)	5557.0	46.4			
FH	(60°-80°)	2167.6	18.1			G2/5000
FVH	(80°-90°)	50.1	0.4			G1/100
BL	(0°-30°)	709.1	5.9	B2/1000		
BM	(30°-60°)	1772.9	14.8	B2/2500		
BH	(60°-80°)	695.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	42.8	0.4			G1/100
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°	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5
2.5°	1964.7	1970.1	1962.0	1967.4	1967.4	1959.2	1956.5	1945.6	1951.0	1948.3	1945.6
5°	2011.1	2013.8	2008.3	2016.5	2016.5	2019.3	2016.5	2002.9	2002.9	2002.9	1997.4
7.5°	1997.4	1997.4	2000.2	2027.4	2054.7	2090.2	2090.2	2084.7	2090.2	2087.5	2062.9
10°	1882.8	1893.7	1918.3	1986.5	2052.0	2128.4	2180.3	2196.6	2196.6	2199.4	2158.4
12.5°	1678.2	1686.4	1743.7	1847.3	1983.8	2122.9	2248.5	2330.3	2338.5	2352.2	2297.6
15°	1495.3	1500.8	1541.7	1648.1	1803.7	2049.3	2286.7	2455.9	2483.1	2540.4	2458.6
17.5°	1511.7	1509.0	1519.9	1560.8	1672.7	1929.2	2278.5	2603.2	2652.3	2753.3	2682.3
20°	1609.9	1609.9	1618.1	1626.3	1667.3	1841.9	2218.5	2723.3	2818.8	3015.2	2933.4
22.5°	1765.5	1765.5	1762.8	1776.4	1776.4	1880.1	2221.2	2813.3	2955.2	3307.2	3228.1
25°	1981.1	1970.1	1970.1	1975.6	1951.0	2024.7	2289.4	2906.1	3091.6	3653.8	3585.5
27.5°	2223.9	2232.1	2226.6	2207.5	2174.8	2232.1	2453.1	3050.7	3244.5	4019.4	3992.1
30°	2488.6	2491.3	2496.8	2485.9	2458.6	2499.5	2709.6	3269.0	3446.4	4401.4	4461.5
32.5°	2747.8	2786.0	2772.4	2745.1	2756.0	2829.7	3026.2	3563.7	3746.5	4756.2	4969.0
35°	3078.0	3091.6	3146.2	3045.3	3048.0	3173.5	3430.0	3951.2	4128.6	5124.5	5476.5
37.5°	3558.3	3582.8	3558.3	3400.0	3375.4	3550.1	3822.9	4333.2	4461.5	5402.9	5948.6
40°	4030.3	4060.3	4101.3	3915.7	3760.2	3904.8	4194.0	4625.2	4758.9	5555.7	6262.4
42.5°	4420.5	4469.6	4426.0	4371.4	4229.5	4256.8	4453.3	4851.7	4985.4	5749.4	6579.0
45°	4750.7	4758.9	4778.0	4739.8	4668.8	4644.3	4674.3	5050.9	5198.2	5836.7	6734.5
47.5°	4887.1	4922.6	4939.0	5004.5	5078.2	5029.0	4862.6	5143.6	5277.4	5831.3	6783.6
50°	4813.5	4848.9	4936.3	5091.8	5269.2	5356.5	5083.6	5271.9	5422.0	5929.5	6884.6
52.5°	4619.7	4657.9	4799.8	4977.2	5274.6	5473.8	5394.7	5539.3	5683.9	6104.2	7053.8
55°	4150.4	4207.7	4406.9	4701.6	5110.9	5411.1	5722.1	5932.2	6090.5	6314.3	7228.4
57.5°	3468.2	3528.2	3752.0	4194.0	4808.0	5151.8	5817.6	6669.0	6739.9	6565.3	7244.8
60°	*2597.7*	*2646.9*	*2963.4*	*3318.1*	*4038.5*	*4677.0*	*5763.1*	*7367.6*	*7547.6*	*6521.6*	*6723.6*
62.5°	2057.5	2117.5	2398.5	2562.3	3078.0	3863.9	5572.1	7561.3	7716.8	6161.5	5997.7
65°	1607.2	1648.1	1910.1	2144.8	2270.3	2638.7	4775.3	6614.4	6753.6	5574.8	4949.9
67.5°	1061.5	1124.2	1435.3	1757.3	1822.8	1678.2	3285.4	5089.1	5154.6	4431.4	3722.0
70°	761.3	791.3	1023.3	1367.1	1465.3	1124.2	1790.0	3853.0	3872.1	2974.3	2507.7
72.5°	518.5	523.9	695.8	1047.8	1167.9	815.9	985.1	2537.7	2472.2	1468.1	1435.3
75°	352.0	357.5	444.8	698.6	826.8	567.6	641.3	1383.5	1328.9	810.4	870.5
77.5°	237.4	242.9	305.6	469.3	551.2	392.9	469.3	731.3	717.7	537.6	466.6
80°	180.1	188.3	226.5	300.2	384.8	229.2	267.4	346.5	352.0	286.5	237.4
82.5°	101.0	111.9	136.4	152.8	248.3	128.3	128.3	207.4	199.2	177.4	128.3
85°	43.7	46.4	54.6	57.3	101.0	54.6	46.4	90.0	92.8	87.3	40.9
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.9	10.9	10.9	10.9
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°	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5
2.5°	1931.9	1948.3	1931.9	1923.8	1923.8	1910.1	1904.6	1904.6	1885.5	1893.7	1888.3
5°	1975.6	1981.1	1962.0	1937.4	1904.6	1877.4	1839.2	1790.0	1760.0	1757.3	1760.0
7.5°	2043.8	2046.5	1994.7	1940.1	1858.3	1760.0	1642.7	1547.2	1462.6	1449.0	1465.3
10°	2139.3	2133.9	2057.5	1929.2	1757.3	1549.9	1369.8	1282.5	1233.4	1230.7	1227.9
12.5°	2267.6	2232.1	2114.8	1882.8	1582.7	1342.5	1249.8	1244.3	1257.9	1268.9	1271.6
15°	2414.9	2368.5	2161.1	1792.8	1405.3	1266.1	1271.6	1318.0	1334.3	1345.3	1345.3
17.5°	2597.7	2537.7	2213.0	1664.5	1315.2	1282.5	1320.7	1364.4	1391.6	1402.6	1399.8
20°	2840.6	2715.1	2253.9	1541.7	1290.7	1309.8	1342.5	1386.2	1413.5	1427.1	1427.1
22.5°	3083.5	2927.9	2262.1	1457.1	1290.7	1312.5	1342.5	1386.2	1416.2	1429.9	1427.1
25°	3413.6	3200.8	2264.8	1397.1	1293.4	1298.9	1326.2	1364.4	1408.0	1421.7	1427.1
27.5°	3765.6	3501.0	2278.5	1383.5	1282.5	1279.8	1298.9	1334.3	1378.0	1413.5	1416.2
30°	4202.2	3839.3	2283.9	1397.1	1285.2	1249.8	1263.4	1298.9	1345.3	1380.7	1391.6
32.5°	4630.6	4153.1	2273.0	1427.1	1290.7	1230.7	1233.4	1255.2	1304.3	1328.9	1348.0
35°	5083.6	4486.0	2253.9	1468.1	1293.4	1222.5	1197.9	1208.8	1241.6	1244.3	1252.5
37.5°	5438.3	4734.3	2196.6	1522.6	1298.9	1192.5	1143.3	1135.1	1121.5	1094.2	1099.7
40°	5730.3	4900.8	2101.1	1549.9	1285.2	1157.0	1075.1	1036.9	985.1	944.1	952.3
42.5°	5940.4	5012.7	1986.5	1555.4	1263.4	1096.9	996.0	930.5	873.2	829.5	832.3
45°	6033.2	5001.8	1863.7	1514.4	1211.6	1023.3	922.3	859.5	796.8	750.4	744.9
47.5°	6035.9	4895.3	1694.5	1416.2	1124.2	938.7	854.1	785.9	734.0	701.3	698.6
50°	6057.8	4835.3	1536.3	1274.3	1009.6	848.6	794.1	725.8	695.8	649.4	635.8
52.5°	6194.2	4933.5	1427.1	1118.8	903.2	783.1	742.2	682.2	633.1	603.0	600.3
55°	6415.2	5102.7	1367.1	1001.4	802.2	720.4	693.1	641.3	597.6	567.6	559.4
57.5°	6442.5	5190.0	1296.1	892.3	720.4	671.3	660.4	603.0	540.3	518.5	510.3
60°	*6060.5*	*5042.7*	*1208.8*	*791.3*	*660.4*	*633.1*	*627.6*	*551.2*	*499.4*	*472.1*	*461.2*
62.5°	5539.3	4674.3	1075.1	698.6	614.0	594.9	573.0	513.0	447.5	417.5	409.3
65°	4527.0	3929.4	914.1	635.8	567.6	545.7	540.3	458.4	414.8	398.4	395.7
67.5°	3430.0	3157.1	805.0	589.4	518.5	510.3	491.2	463.9	444.8	425.7	420.2
70°	2425.8	2278.5	684.9	529.4	469.3	455.7	534.8	504.8	436.6	412.0	409.3
72.5°	1470.8	1429.9	592.1	474.8	403.9	425.7	493.9	455.7	392.9	362.9	352.0
75°	927.8	848.6	496.6	403.9	322.0	346.5	431.1	406.6	338.4	308.3	300.2
77.5°	504.8	469.3	373.8	330.2	253.8	281.1	376.6	335.6	270.1	294.7	262.0
80°	221.0	245.6	248.3	191.0	169.2	207.4	270.1	262.0	207.4	210.1	174.6
82.5°	106.4	139.2	161.0	131.0	95.5	122.8	180.1	150.1	139.2	131.0	125.5
85°	32.7	51.8	70.9	62.8	43.7	51.8	84.6	81.9	98.2	84.6	79.1
87.5°	10.9	10.9	8.2	8.2	8.2	10.9	13.6	8.2	2.7	2.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5
2.5°	1885.5	1888.3	1888.3	1891.0	1891.0	1899.2	1910.1	1921.0	1912.8	1923.8	1926.5
5°	1754.6	1768.2	1779.1	1820.1	1852.8	1880.1	1910.1	1937.4	1945.6	1951.0	1964.7
7.5°	1446.2	1484.4	1555.4	1648.1	1751.8	1852.8	1921.0	1992.0	2002.9	2016.5	2035.6
10°	1230.7	1247.0	1296.1	1391.6	1577.2	1776.4	1942.9	2054.7	2101.1	2128.4	2147.5
12.5°	1266.1	1255.2	1247.0	1260.7	1380.7	1637.2	1929.2	2144.8	2232.1	2262.1	2286.7
15°	1350.7	1339.8	1309.8	1271.6	1285.2	1489.9	1882.8	2229.4	2368.5	2417.6	2469.5
17.5°	1399.8	1388.9	1364.4	1323.4	1288.0	1367.1	1795.5	2305.8	2584.1	2644.1	2717.8
20°	1427.1	1416.2	1391.6	1350.7	1309.8	1320.7	1683.6	2401.3	2829.7	2925.2	3034.3
22.5°	1432.6	1418.9	1391.6	1350.7	1326.2	1318.0	1577.2	2458.6	3094.4	3241.7	3367.2
25°	1429.9	1405.3	1369.8	1339.8	1326.2	1323.4	1503.5	2491.3	3380.9	3615.6	3757.5
27.5°	1410.8	1380.7	1345.3	1323.4	1318.0	1334.3	1470.8	2529.5	3716.5	4016.7	4243.2
30°	1388.9	1345.3	1301.6	1293.4	1307.1	1358.9	1498.1	2543.2	4068.5	4453.3	4685.2
32.5°	1331.6	1298.9	1255.2	1252.5	1285.2	1378.0	1560.8	2524.1	4379.6	4889.9	5181.8
35°	1249.8	1230.7	1206.1	1214.3	1266.1	1394.4	1604.5	2464.0	4663.4	5296.5	5637.5
37.5°	1105.1	1118.8	1132.4	1151.5	1217.0	1391.6	1623.6	2368.5	4898.1	5621.2	6057.8
40°	944.1	990.5	1034.2	1083.3	1170.6	1369.8	1629.0	2251.2	5034.5	5866.8	6431.6
42.5°	843.2	886.8	941.4	1012.4	1107.9	1320.7	1623.6	2120.2	5078.2	6035.9	6669.0
45°	750.4	802.2	870.5	944.1	1053.3	1249.8	1574.5	1978.3	5100.0	6115.1	6770.0
47.5°	701.3	731.3	794.1	867.7	982.3	1162.4	1479.0	1874.6	5067.2	6131.4	6892.8
50°	644.0	684.9	725.8	796.8	908.7	1053.3	1364.4	1814.6	5121.8	6292.4	7086.5
52.5°	600.3	622.1	665.8	731.3	813.2	952.3	1255.2	1765.5	5271.9	6456.2	7288.4
55°	567.6	592.1	619.4	674.0	736.8	851.4	1143.3	1691.8	5446.5	6630.8	7490.3
57.5°	515.7	532.1	570.3	627.6	668.5	753.1	1012.4	1604.5	5432.9	6494.4	7141.1
60°	*469.3*	*485.7*	*526.6*	*583.9*	*608.5*	*665.8*	*884.1*	*1492.6*	*5170.9*	*6049.6*	*6497.1*
62.5°	417.5	436.6	485.7	526.6	548.5	592.1	750.4	1288.0	4625.2	5381.0	5744.0
65°	395.7	406.6	439.3	488.4	485.7	526.6	633.1	1012.4	3722.0	4112.2	4442.4
67.5°	420.2	436.6	431.1	444.8	436.6	458.4	567.6	813.2	2925.2	3097.1	3288.1
70°	414.8	453.0	472.1	444.8	382.0	406.6	491.2	649.4	2092.9	2076.6	2068.4
72.5°	362.9	401.1	455.7	483.0	373.8	338.4	425.7	562.1	1342.5	1337.1	1208.8
75°	308.3	335.6	401.1	436.6	322.0	272.9	365.6	477.5	802.2	813.2	725.8
77.5°	283.8	270.1	335.6	384.8	262.0	210.1	294.7	360.2	442.1	447.5	414.8
80°	204.7	196.5	251.0	281.1	199.2	150.1	166.5	223.8	237.4	212.8	221.0
82.5°	131.0	133.7	150.1	180.1	122.8	81.9	114.6	150.1	128.3	103.7	122.8
85°	84.6	95.5	79.1	92.8	38.2	38.2	49.1	65.5	43.7	30.0	32.7
87.5°	0.0	0.0	5.5	10.9	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: P1501499
CATALOG NUMBER: GSS-SB2C-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1926.5	1926.5	*1926.5*	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5	1926.5
2.5°	1934.7	1931.9	*1931.9*	1937.4	1951.0	1956.5	1964.7	1962.0	1970.1	1964.7
5°	1972.9	1975.6	*1983.8*	1986.5	1994.7	2005.6	2008.3	2005.6	2011.1	2011.1
7.5°	2049.3	2060.2	*2054.7*	2068.4	2057.5	2043.8	2022.0	2005.6	1992.0	1997.4
10°	2177.5	2172.1	*2169.3*	2144.8	2095.7	2024.7	1967.4	1904.6	1893.7	1882.8
12.5°	2319.4	2314.0	*2314.0*	2229.4	2090.2	1942.9	1811.9	1713.6	1680.9	1678.2
15°	2518.6	2483.1	*2450.4*	2273.0	1994.7	1743.7	1590.8	1514.4	1495.3	1495.3
17.5°	2766.9	2674.1	*2619.6*	2240.3	1839.2	1612.7	1522.6	1503.5	1498.1	1511.7
20°	3075.3	2840.6	*2761.5*	2166.6	1781.9	1629.0	1585.4	1588.1	1590.8	1609.9
22.5°	3413.6	2993.4	*2862.4*	2166.6	1839.2	1732.7	1710.9	1740.9	1749.1	1765.5
25°	3790.2	3129.8	*2952.5*	2281.2	2008.3	1929.2	1901.9	1931.9	1953.8	1981.1
27.5°	4213.1	3271.7	*3108.0*	2488.6	2226.6	2177.5	2147.5	2161.1	2191.2	2223.9
30°	4592.4	3509.1	*3345.4*	2805.1	2524.1	2464.0	2412.2	2434.0	2466.8	2488.6
32.5°	4928.1	3798.4	*3659.2*	3138.0	2865.2	2761.5	2704.2	2698.7	2764.2	2747.8
35°	5236.4	4139.5	*4005.8*	3517.3	3211.7	3083.5	3007.1	3105.3	3061.6	3078.0
37.5°	5479.3	4494.2	*4387.8*	3880.2	3571.9	3397.3	3350.9	3470.9	3539.2	3558.3
40°	5678.5	4802.6	*4690.7*	4240.4	3902.1	3773.8	3847.5	4046.7	4038.5	4030.3
42.5°	5831.3	5067.2	*4944.4*	4513.3	4218.6	4243.2	4300.5	4434.2	4466.9	4420.5
45°	5899.5	5233.7	*5135.5*	4728.9	4578.8	4720.7	4745.3	4802.6	4780.7	4750.7
47.5°	5978.6	5381.0	*5277.4*	4925.3	4969.0	5108.2	5059.1	5012.7	4933.5	4887.1
50°	6112.3	5555.7	*5468.4*	5211.9	5370.1	5323.7	5132.7	5029.0	4868.0	4813.5
52.5°	6366.1	5885.9	*5820.4*	5664.8	5558.4	5291.0	5059.1	4873.5	4693.4	4619.7
55°	6592.6	6333.4	*6295.2*	6087.8	5501.1	5119.1	4808.0	4521.5	4213.1	4150.4
57.5°	6723.6	7075.6	*7119.2*	6267.9	5239.1	4728.9	4270.5	3812.0	3520.1	3468.2
60°	*6333.4*	*7877.8*	*7899.7*	*6232.4*	*4767.1*	*4024.9*	*3326.3*	*3001.6*	*2687.8*	*2597.7*
62.5°	5795.8	7711.4	*7692.3*	6019.6	3795.7	2936.1	2526.8	2374.0	2131.1	2057.5
65°	4982.6	6423.4	*6445.2*	5200.9	2524.1	2122.9	2122.9	1929.2	1659.1	1607.2
67.5°	4060.3	4952.6	*4903.5*	3372.7	1549.9	1700.0	1781.9	1503.5	1124.2	1061.5
70°	2638.7	3782.0	*3713.8*	1945.6	974.2	1416.2	1402.6	1129.7	805.0	761.3
72.5°	1135.1	2185.7	*2324.9*	993.3	734.0	1140.6	1118.8	791.3	537.6	518.5
75°	684.9	1099.7	*1197.9*	633.1	534.8	859.5	775.0	502.1	365.6	352.0
77.5°	433.9	603.0	*597.6*	474.8	401.1	581.2	521.2	346.5	248.3	237.4
80°	251.0	297.4	*308.3*	297.4	270.1	414.8	332.9	251.0	193.7	180.1
82.5°	161.0	185.6	*188.3*	144.6	150.1	267.4	180.1	147.4	111.9	101.0
85°	70.9	79.1	*76.4*	49.1	49.1	109.1	62.8	60.0	43.7	43.7
87.5°	2.7	5.5	*2.7*	2.7	2.7	10.9	5.5	8.2	8.2	8.2
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

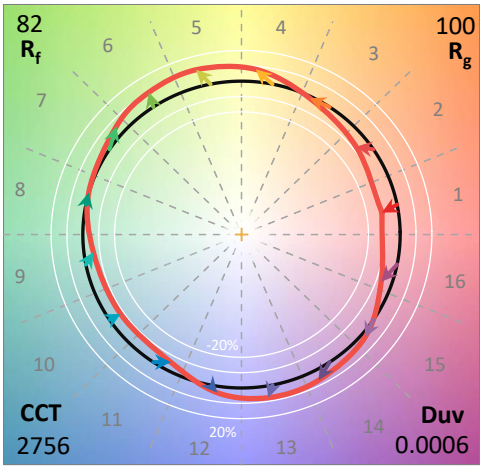
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

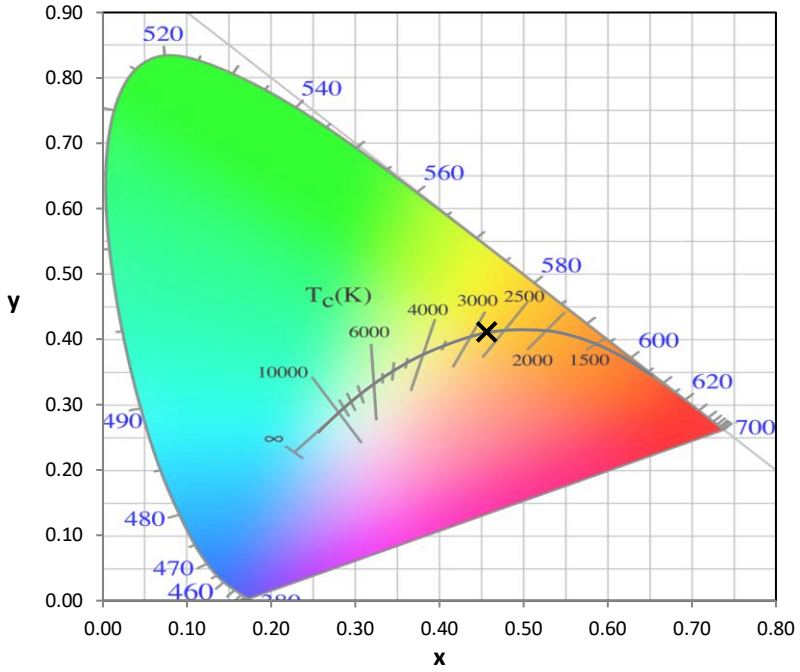
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

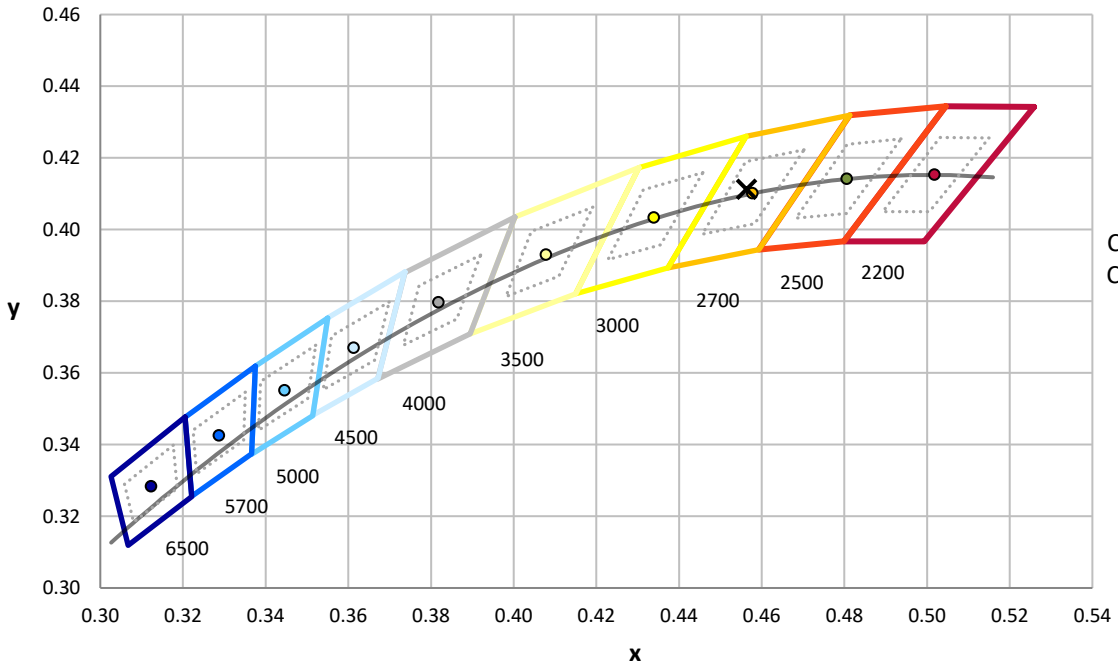
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

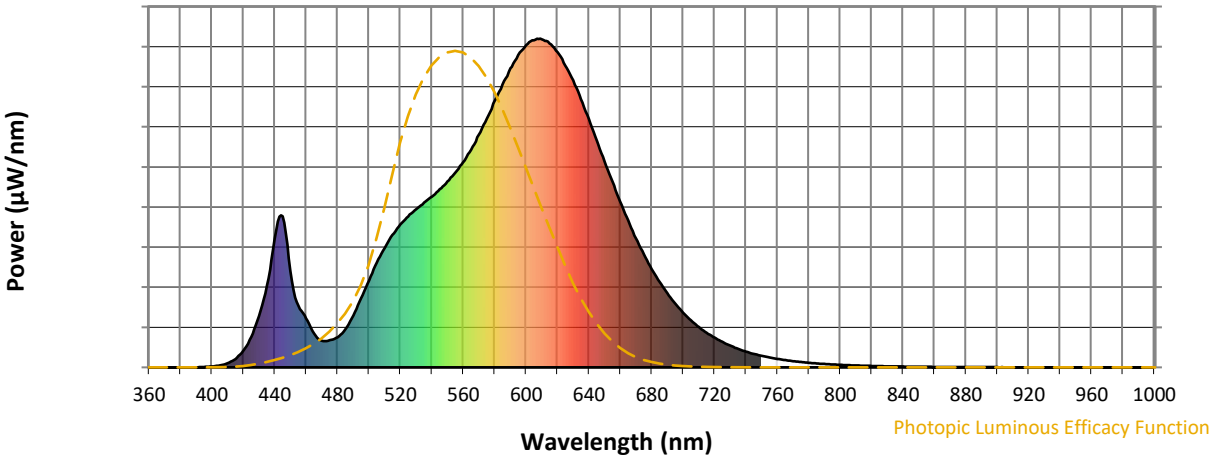


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

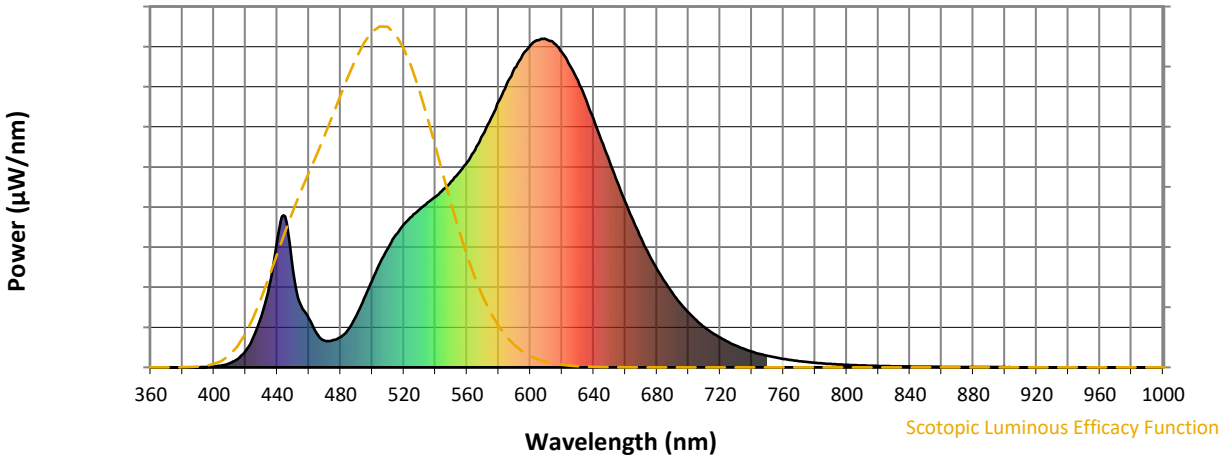


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

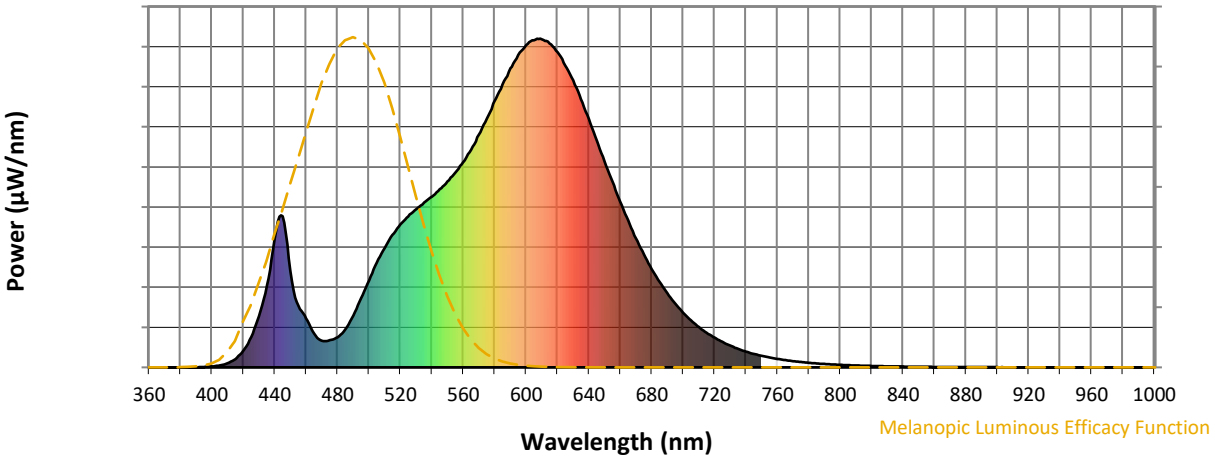


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

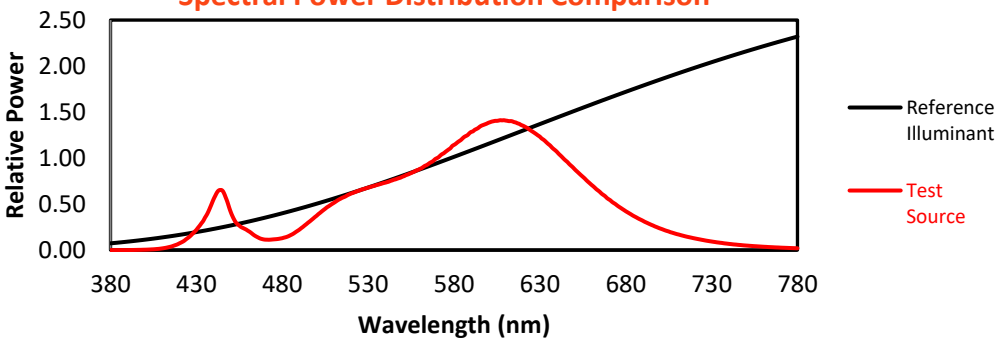
REPORT NUMBER: SP1-2407-184-8

TM-30-18

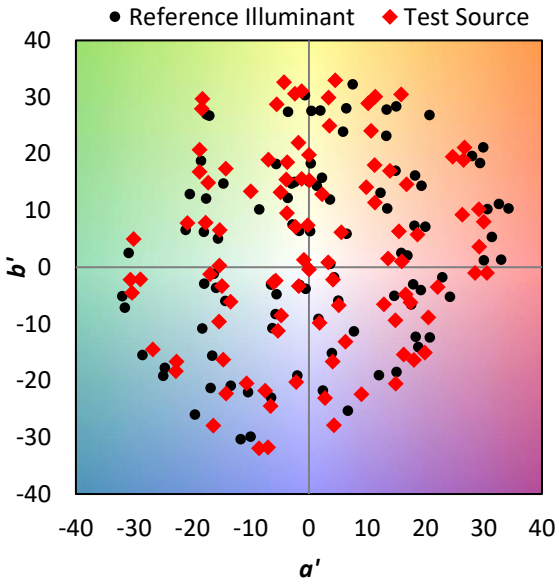
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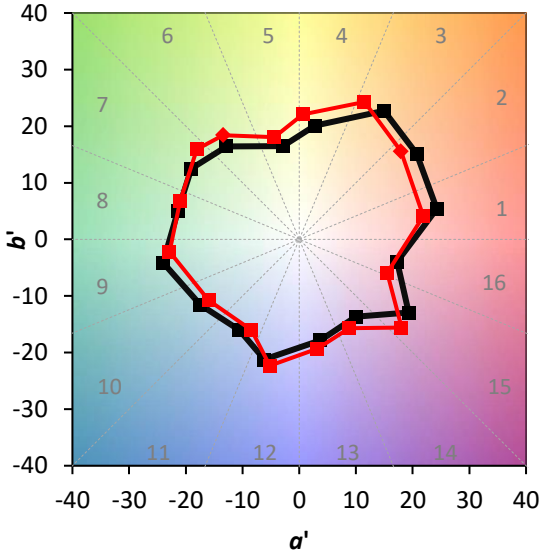
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

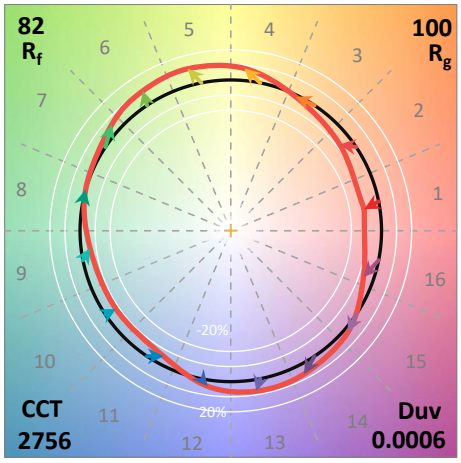
Spectral Power Distribution Comparison

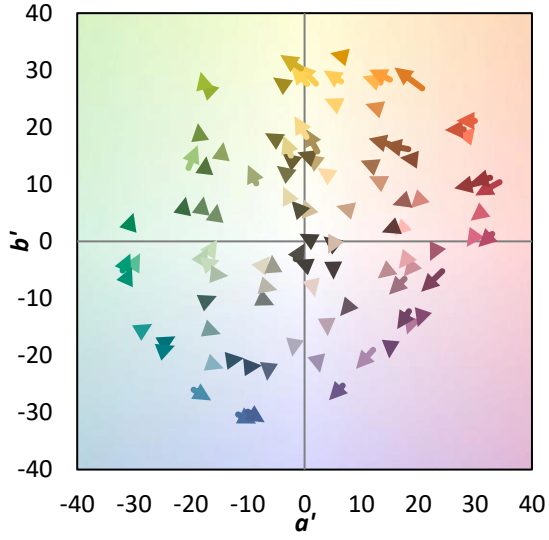


Color Vector Graphics







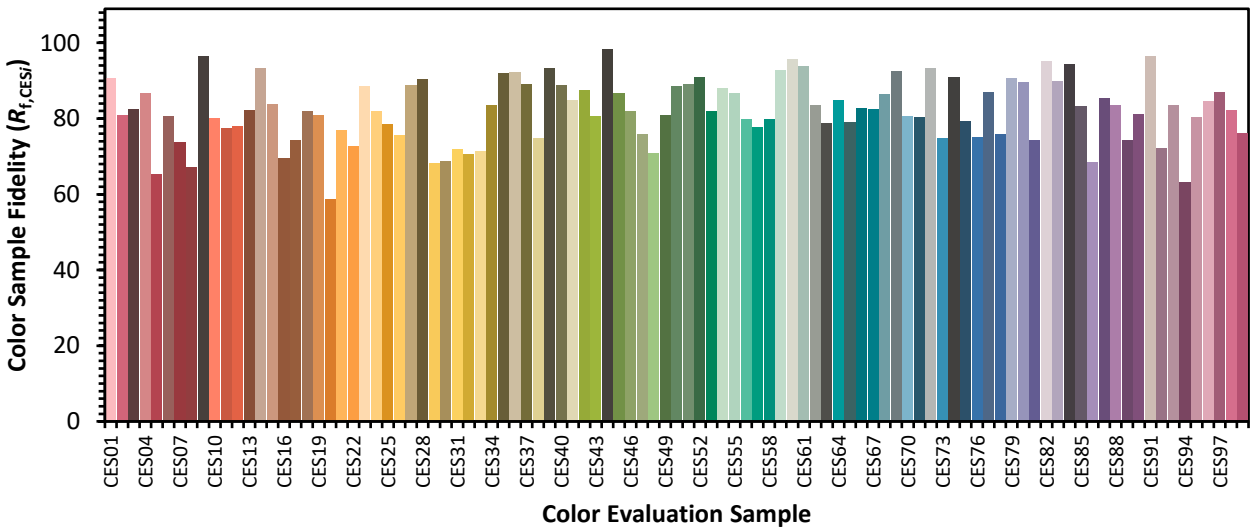


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Individual Sample Fidelity Index ($R_{f,i}$)

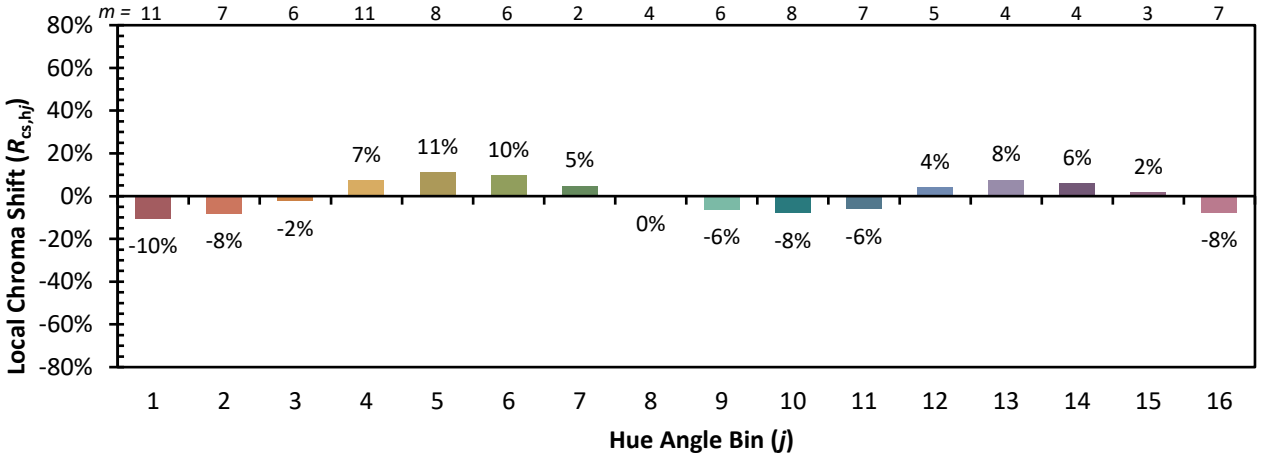
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

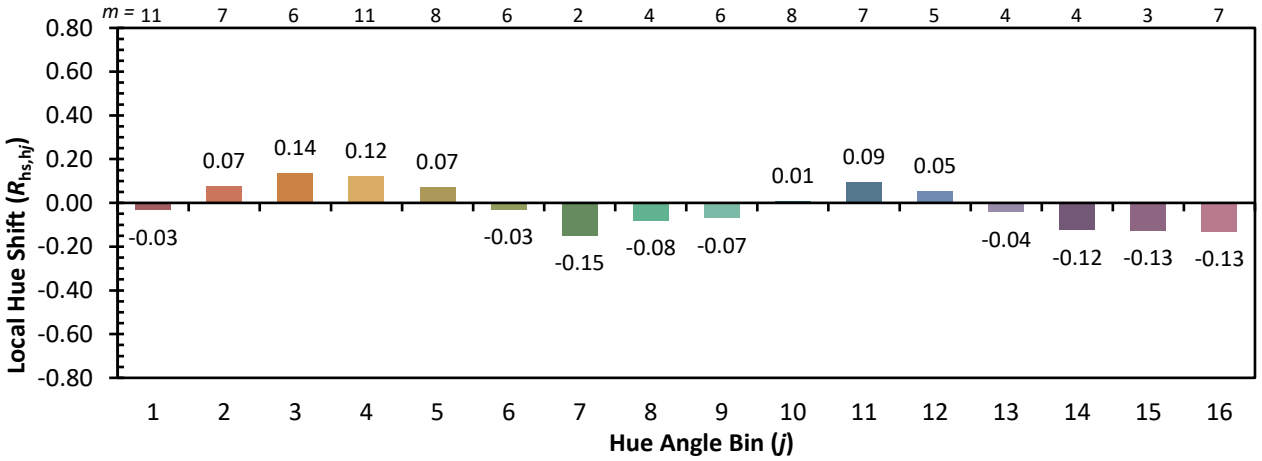


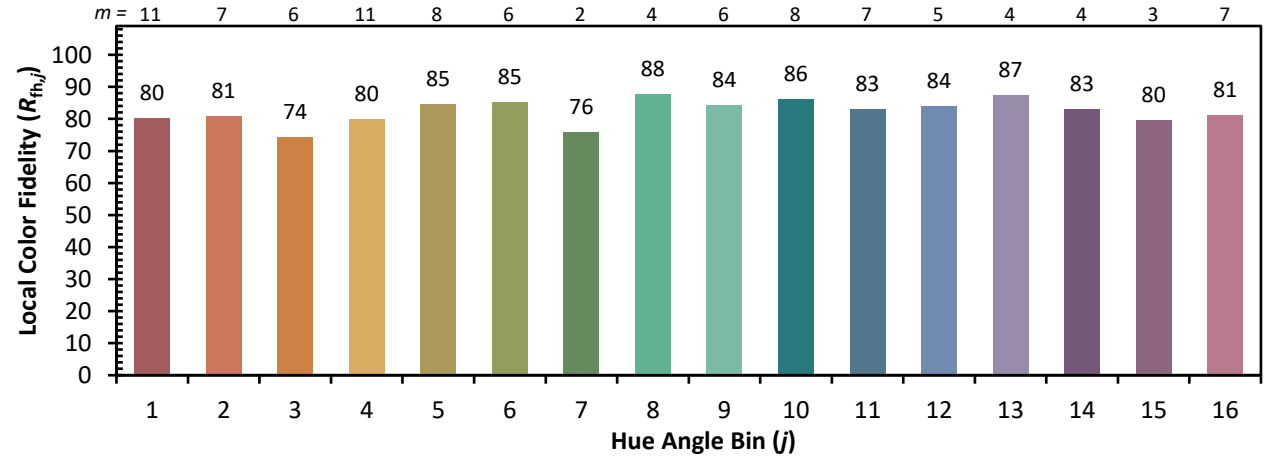
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Color Rendition by Hue-Angle Bin



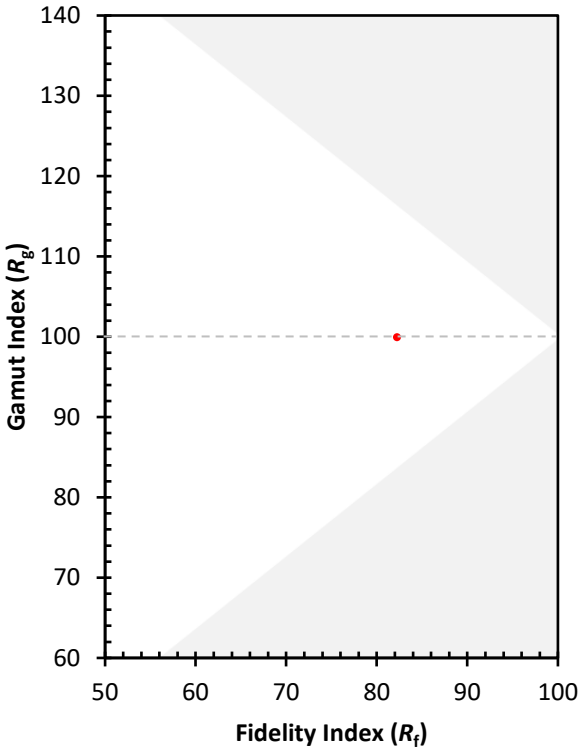


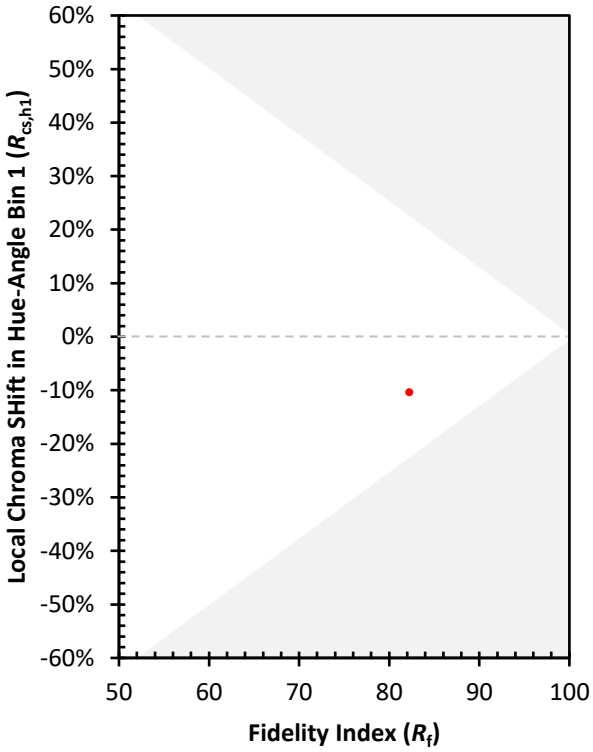


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Measure Comparisons





(END OF REPORT)