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: P1501330

Luminaire Tested: GSS-SB2B-740-U-T2LG

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:	P1501330
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2B-740-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11045.8 lumens
Efficiency:	N/A
Efficacy:	149.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

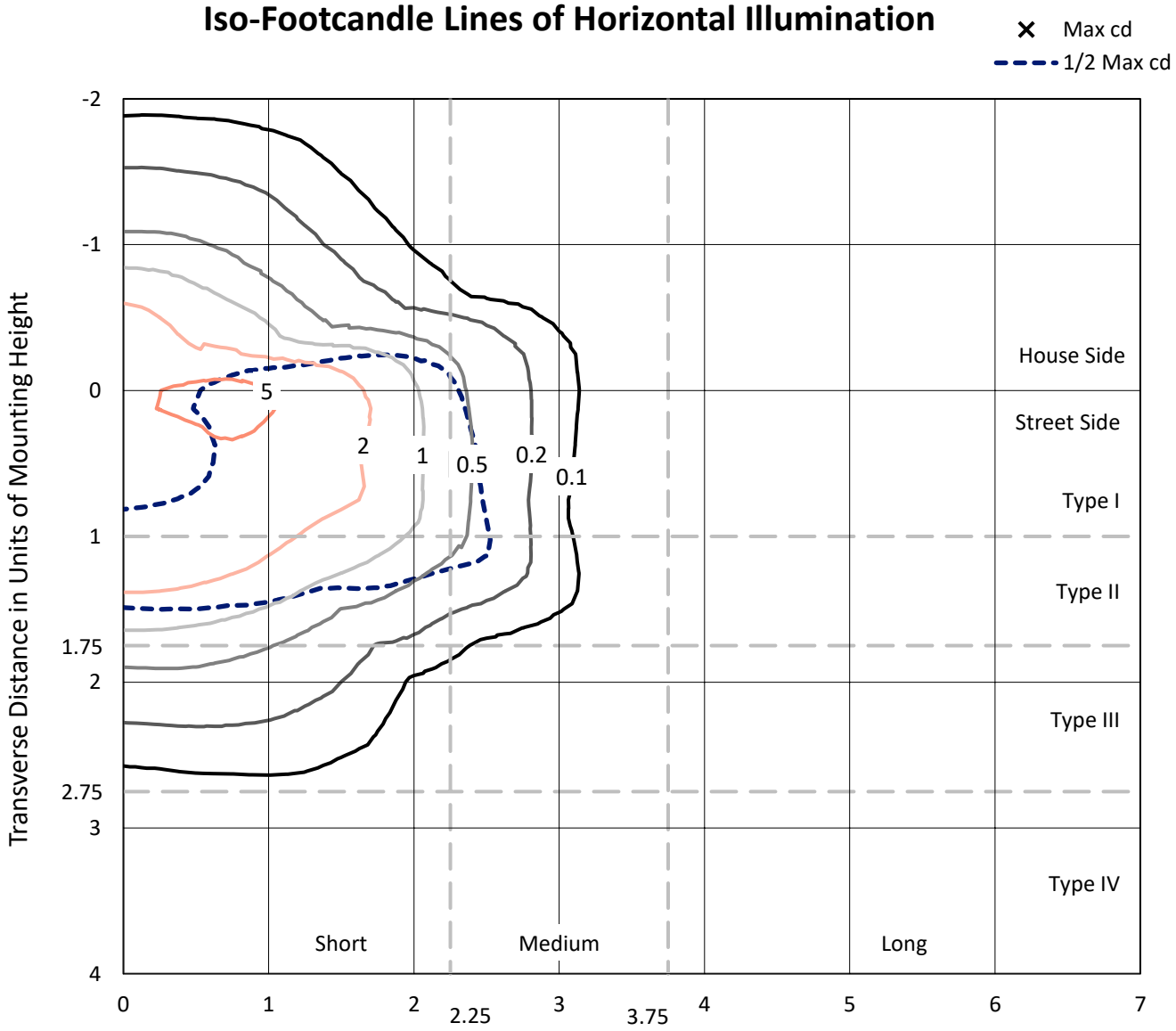
Input Watts (W):	74
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



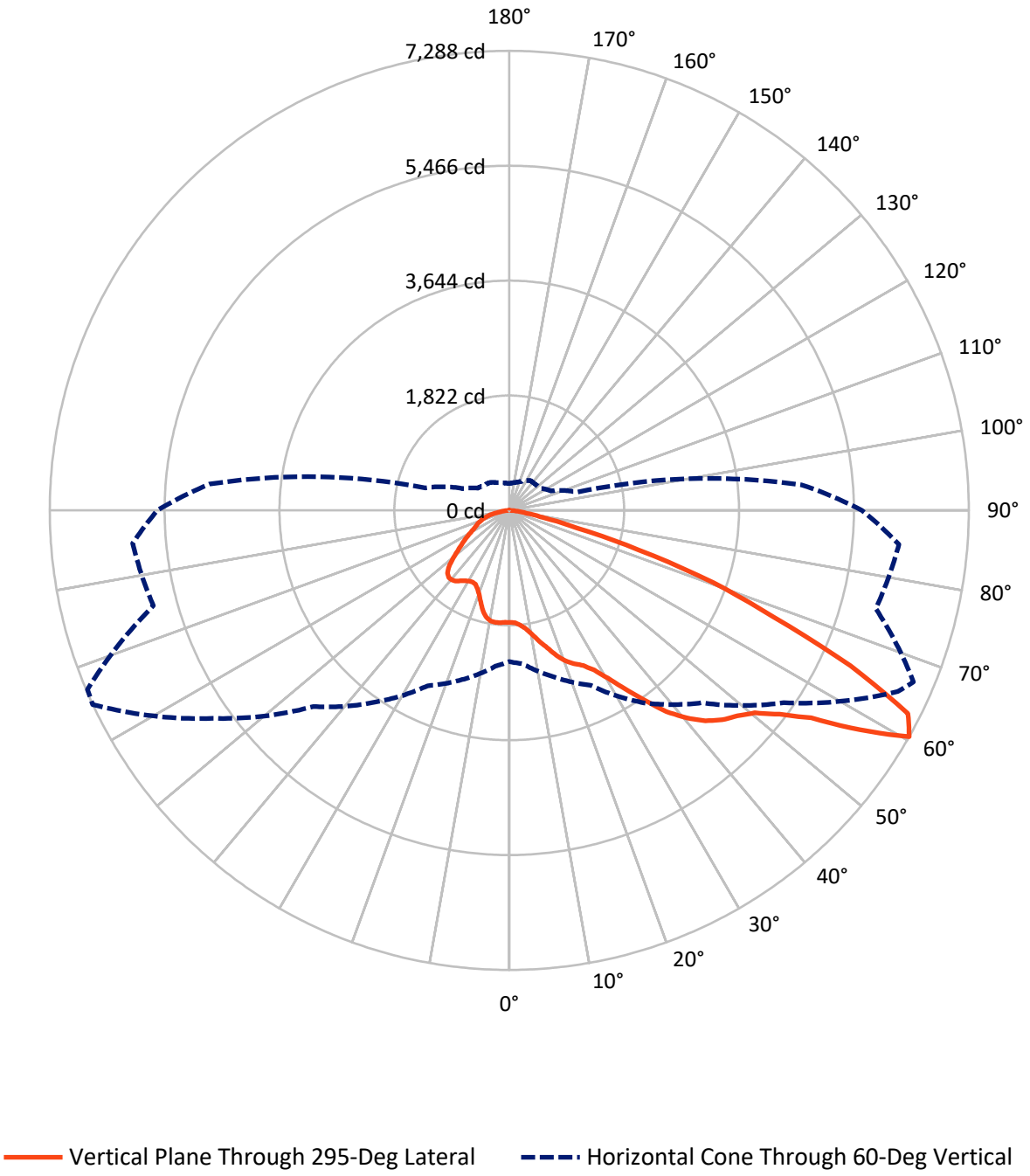
Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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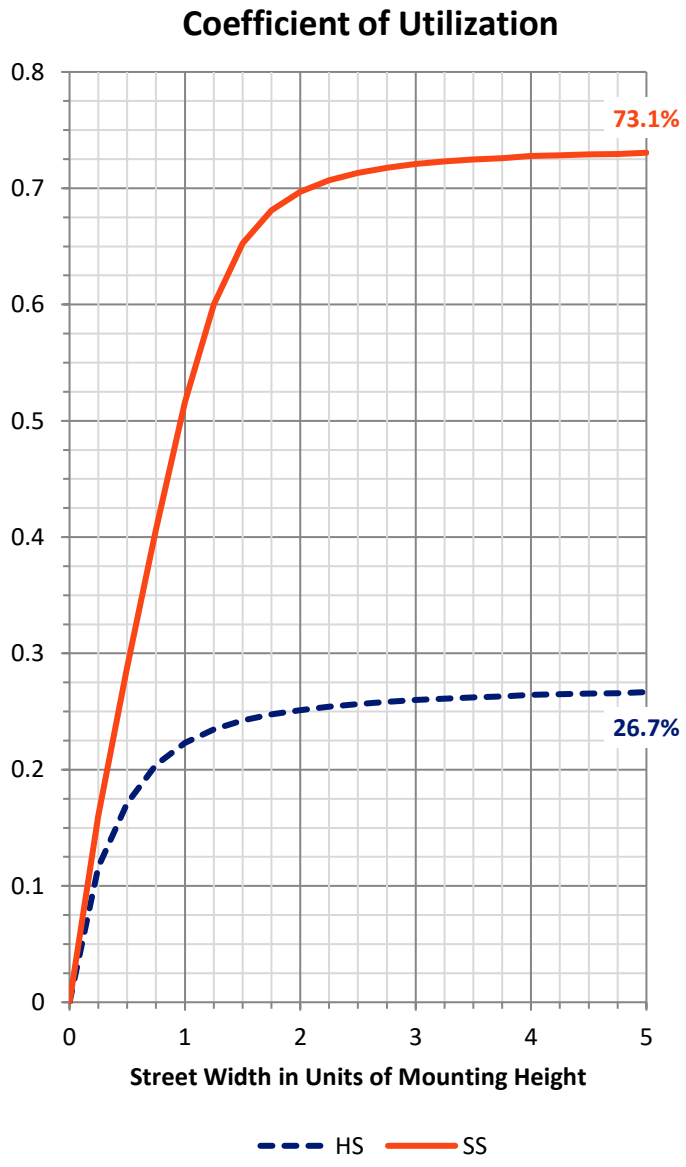
REPORT NUMBER: P1501330
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.4	0.0	2970.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8075.5	0.0	8075.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	11045.8	0.0	11045.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.5
10°-20°	480.4	4.3
20°-30°	909.9	8.2
30°-40°	1604.1	14.5
40°-50°	2372.3	21.5
50°-60°	2785.7	25.2
60°-70°	2018.3	18.3
70°-80°	622.4	5.6
80°-90°	85.7	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°	11045.8	100.0
0°-180°	11045.8	100.0



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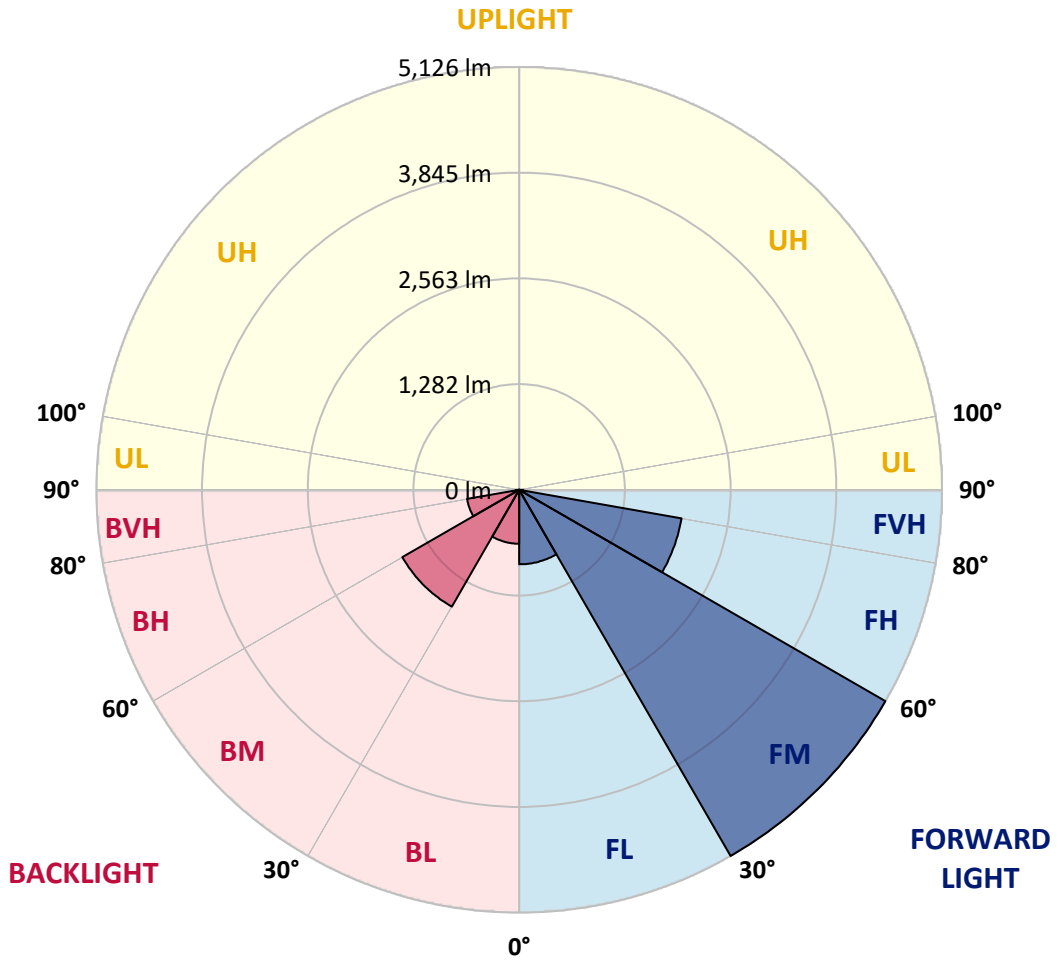
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	903.2	8.2			
FM	(30°-60°)	5126.4	46.4			
FH	(60°-80°)	1999.6	18.1			G2/5000
FVH	(80°-90°)	46.2	0.4			G1/100
BL	(0°-30°)	654.2	5.9	B2/1000		
BM	(30°-60°)	1635.6	14.8	B2/2500		
BH	(60°-80°)	641.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	39.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1812.5	1817.5	1809.9	1815.0	1815.0	1807.4	1804.9	1794.8	1799.9	1797.4	1794.8
5°	1855.3	1857.8	1852.7	1860.3	1860.3	1862.8	1860.3	1847.7	1847.7	1847.7	1842.7
7.5°	1842.7	1842.7	1845.2	1870.4	1895.5	1928.3	1928.3	1923.2	1928.3	1925.7	1903.1
10°	1736.9	1747.0	1769.7	1832.6	1893.0	1963.5	2011.3	2026.4	2026.4	2029.0	1991.2
12.5°	1548.1	1555.7	1608.6	1704.2	1830.1	1958.5	2074.3	2149.8	2157.3	2169.9	2119.6
15°	1379.5	1384.5	1422.3	1520.5	1663.9	1890.5	2109.5	2265.6	2290.8	2343.6	2268.1
17.5°	1394.6	1392.1	1402.1	1439.9	1543.1	1779.7	2102.0	2401.5	2446.8	2540.0	2474.5
20°	1485.2	1485.2	1492.8	1500.3	1538.1	1699.2	2046.6	2512.3	2600.4	2781.6	2706.1
22.5°	1628.7	1628.7	1626.2	1638.8	1638.8	1734.4	2049.1	2595.3	2726.2	3051.0	2978.0
25°	1827.6	1817.5	1817.5	1822.5	1799.9	1867.8	2112.0	2680.9	2852.1	3370.7	3307.7
27.5°	2051.6	2059.2	2054.1	2036.5	2006.3	2059.2	2263.1	2814.4	2993.1	3708.0	3682.8
30°	2295.8	2298.3	2303.3	2293.3	2268.1	2305.9	2499.7	3015.7	3179.4	4060.4	4115.8
32.5°	2534.9	2570.2	2557.6	2532.4	2542.5	2610.5	2791.7	3287.6	3456.3	4387.7	4584.0
35°	2839.5	2852.1	2902.5	2809.3	2811.8	2927.6	3164.3	3645.1	3808.7	4727.5	5052.2
37.5°	3282.6	3305.2	3282.6	3136.6	3113.9	3275.0	3526.8	3997.5	4115.8	4984.3	5487.7
40°	3718.1	3745.8	3783.5	3612.3	3468.9	3602.3	3869.1	4266.8	4390.2	5125.2	5777.2
42.5°	4078.0	4123.4	4083.1	4032.7	3901.8	3927.0	4108.2	4475.8	4599.1	5304.0	6069.2
45°	4382.6	4390.2	4407.8	4372.6	4307.1	4284.5	4312.2	4659.5	4795.5	5384.5	6212.7
47.5°	4508.5	4541.2	4556.3	4616.7	4684.7	4639.4	4485.8	4745.1	4868.5	5379.5	6258.0
50°	4440.5	4473.3	4553.8	4697.3	4860.9	4941.5	4689.7	4863.4	5001.9	5470.1	6351.2
52.5°	4261.8	4297.0	4427.9	4591.6	4866.0	5049.7	4976.7	5110.1	5243.6	5631.2	6507.2
55°	3828.8	3881.7	4065.5	4337.3	4714.9	4991.8	5278.8	5472.6	5618.6	5825.1	6668.4
57.5°	3199.5	3254.9	3461.3	3869.1	4435.5	4752.7	5366.9	6152.3	6217.8	6056.6	6683.5
60°	*2396.5*	*2441.8*	*2733.8*	*3061.0*	*3725.6*	*4314.7*	*5316.6*	*6796.7*	*6962.9*	*6016.4*	*6202.7*
62.5°	1898.1	1953.4	2212.7	2363.8	2839.5	3564.5	5140.3	6975.5	7119.0	5684.1	5533.0
65°	1482.7	1520.5	1762.1	1978.6	2094.4	2434.2	4405.3	6102.0	6230.3	5142.9	4566.4
67.5°	979.2	1037.1	1324.1	1621.1	1681.6	1548.1	3030.8	4694.8	4755.2	4088.1	3433.6
70°	702.3	730.0	944.0	1261.2	1351.8	1037.1	1651.4	3554.4	3572.1	2743.9	2313.4
72.5°	478.3	483.3	641.9	966.6	1077.4	752.7	908.7	2341.1	2280.7	1354.3	1324.1
75°	324.7	329.8	410.3	644.4	762.7	523.6	591.6	1276.3	1225.9	747.6	803.0
77.5°	219.0	224.0	281.9	433.0	508.5	362.5	433.0	674.6	662.1	495.9	430.5
80°	166.1	173.7	208.9	276.9	354.9	211.5	246.7	319.7	324.7	264.3	219.0
82.5°	93.1	103.2	125.9	141.0	229.1	118.3	118.3	191.3	183.8	163.6	118.3
85°	40.3	42.8	50.3	52.9	93.1	50.3	42.8	83.1	85.6	80.6	37.8
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	10.1	10.1	10.1
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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1782.3	1797.4	1782.3	1774.7	1774.7	1762.1	1757.1	1757.1	1739.5	1747.0	1742.0
5°	1822.5	1827.6	1809.9	1787.3	1757.1	1731.9	1696.7	1651.4	1623.7	1621.1	1623.7
7.5°	1885.5	1888.0	1840.2	1789.8	1714.3	1623.7	1515.4	1427.3	1349.3	1336.7	1351.8
10°	1973.6	1968.5	1898.1	1779.7	1621.1	1429.8	1263.7	1183.1	1137.8	1135.3	1132.8
12.5°	2091.9	2059.2	1950.9	1736.9	1460.0	1238.5	1152.9	1147.9	1160.5	1170.5	1173.1
15°	2227.8	2185.0	1993.7	1653.9	1296.4	1168.0	1173.1	1215.9	1231.0	1241.0	1241.0
17.5°	2396.5	2341.1	2041.5	1535.6	1213.3	1183.1	1218.4	1258.7	1283.8	1293.9	1291.4
20°	2620.5	2504.7	2079.3	1422.3	1190.7	1208.3	1238.5	1278.8	1304.0	1316.6	1316.6
22.5°	2844.6	2701.1	2086.8	1344.2	1190.7	1210.8	1238.5	1278.8	1306.5	1319.1	1316.6
25°	3149.2	2952.8	2089.4	1288.9	1193.2	1198.2	1223.4	1258.7	1298.9	1311.5	1316.6
27.5°	3473.9	3229.7	2102.0	1276.3	1183.1	1180.6	1198.2	1231.0	1271.2	1304.0	1306.5
30°	3876.7	3541.9	2107.0	1288.9	1185.7	1152.9	1165.5	1198.2	1241.0	1273.8	1283.8
32.5°	4271.9	3831.3	2096.9	1316.6	1190.7	1135.3	1137.8	1158.0	1203.3	1225.9	1243.6
35°	4689.7	4138.5	2079.3	1354.3	1193.2	1127.8	1105.1	1115.2	1145.4	1147.9	1155.4
37.5°	5017.0	4367.5	2026.4	1404.7	1198.2	1100.1	1054.8	1047.2	1034.6	1009.4	1014.5
40°	5286.4	4521.1	1938.3	1429.8	1185.7	1067.3	991.8	956.6	908.7	871.0	878.5
42.5°	5480.2	4624.3	1832.6	1434.9	1165.5	1012.0	918.8	858.4	805.5	765.3	767.8
45°	5565.8	4614.2	1719.3	1397.1	1117.7	944.0	850.9	793.0	735.1	692.3	687.2
47.5°	5568.3	4516.1	1563.2	1306.5	1037.1	866.0	787.9	725.0	677.2	646.9	644.4
50°	5588.4	4460.7	1417.2	1175.6	931.4	782.9	732.5	669.6	641.9	599.1	586.5
52.5°	5714.3	4551.3	1316.6	1032.1	833.2	722.5	684.7	629.3	584.0	556.3	553.8
55°	5918.2	4707.4	1261.2	923.9	740.1	664.6	639.4	591.6	551.3	523.6	516.0
57.5°	5943.4	4787.9	1195.7	823.2	664.6	619.3	609.2	556.3	498.4	478.3	470.7
60°	*5590.9*	*4652.0*	*1115.2*	*730.0*	*609.2*	*584.0*	*579.0*	*508.5*	*460.7*	*435.5*	*425.4*
62.5°	5110.1	4312.2	991.8	644.4	566.4	548.8	528.6	473.3	412.8	385.1	377.6
65°	4176.2	3624.9	843.3	586.5	523.6	503.5	498.4	422.9	382.6	367.5	365.0
67.5°	3164.3	2912.5	742.6	543.7	478.3	470.7	453.1	427.9	410.3	392.7	387.7
70°	2237.9	2102.0	631.8	488.4	433.0	420.4	493.4	465.7	402.8	380.1	377.6
72.5°	1356.8	1319.1	546.3	438.0	372.6	392.7	455.6	420.4	362.5	334.8	324.7
75°	855.9	782.9	458.2	372.6	297.0	319.7	397.7	375.1	312.1	284.5	276.9
77.5°	465.7	433.0	344.9	304.6	234.1	259.3	347.4	309.6	249.2	271.9	241.7
80°	203.9	226.6	229.1	176.2	156.1	191.3	249.2	241.7	191.3	193.8	161.1
82.5°	98.2	128.4	148.5	120.8	88.1	113.3	166.1	138.5	128.4	120.8	115.8
85°	30.2	47.8	65.5	57.9	40.3	47.8	78.0	75.5	90.6	78.0	73.0
87.5°	10.1	10.1	7.6	7.6	7.6	10.1	12.6	7.6	2.5	2.5	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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1739.5	1742.0	1742.0	1744.5	1744.5	1752.0	1762.1	1772.2	1764.6	1774.7	1777.2
5°	1618.6	1631.2	1641.3	1679.0	1709.3	1734.4	1762.1	1787.3	1794.8	1799.9	1812.5
7.5°	1334.2	1369.4	1434.9	1520.5	1616.1	1709.3	1772.2	1837.6	1847.7	1860.3	1877.9
10°	1135.3	1150.4	1195.7	1283.8	1455.0	1638.8	1792.3	1895.5	1938.3	1963.5	1981.1
12.5°	1168.0	1158.0	1150.4	1163.0	1273.8	1510.4	1779.7	1978.6	2059.2	2086.8	2109.5
15°	1246.1	1236.0	1208.3	1173.1	1185.7	1374.5	1736.9	2056.6	2185.0	2230.3	2278.2
17.5°	1291.4	1281.3	1258.7	1220.9	1188.2	1261.2	1656.4	2127.1	2383.9	2439.3	2507.2
20°	1316.6	1306.5	1283.8	1246.1	1208.3	1218.4	1553.2	2215.2	2610.5	2698.6	2799.2
22.5°	1321.6	1309.0	1283.8	1246.1	1223.4	1215.9	1455.0	2268.1	2854.6	2990.6	3106.4
25°	1319.1	1296.4	1263.7	1236.0	1223.4	1220.9	1387.0	2298.3	3118.9	3335.4	3466.3
27.5°	1301.4	1273.8	1241.0	1220.9	1215.9	1231.0	1356.8	2333.5	3428.6	3705.5	3914.4
30°	1281.3	1241.0	1200.8	1193.2	1205.8	1253.6	1382.0	2346.1	3753.3	4108.2	4322.2
32.5°	1228.4	1198.2	1158.0	1155.4	1185.7	1271.2	1439.9	2328.5	4040.3	4511.0	4780.4
35°	1152.9	1135.3	1112.7	1120.2	1168.0	1286.3	1480.2	2273.1	4302.1	4886.1	5200.8
37.5°	1019.5	1032.1	1044.7	1062.3	1122.7	1283.8	1497.8	2185.0	4518.6	5185.7	5588.4
40°	871.0	913.8	954.1	999.4	1079.9	1263.7	1502.8	2076.8	4644.4	5412.2	5933.3
42.5°	777.8	818.1	868.5	933.9	1022.0	1218.4	1497.8	1955.9	4684.7	5568.3	6152.3
45°	692.3	740.1	803.0	871.0	971.7	1152.9	1452.5	1825.0	4704.9	5641.3	6245.4
47.5°	646.9	674.6	732.5	800.5	906.2	1072.4	1364.4	1729.4	4674.6	5656.4	6358.7
50°	594.1	631.8	669.6	735.1	838.3	971.7	1258.7	1674.0	4725.0	5804.9	6537.5
52.5°	553.8	573.9	614.2	674.6	750.2	878.5	1158.0	1628.7	4863.4	5956.0	6723.7
55°	523.6	546.3	571.4	621.8	679.7	785.4	1054.8	1560.7	5024.6	6117.1	6910.0
57.5°	475.8	490.9	526.1	579.0	616.7	694.8	933.9	1480.2	5012.0	5991.2	6587.8
60°	*433.0*	*448.1*	*485.8*	*538.7*	*561.4*	*614.2*	*815.6*	*1377.0*	*4770.3*	*5580.9*	*5993.7*
62.5°	385.1	402.8	448.1	485.8	506.0	546.3	692.3	1188.2	4266.8	4964.1	5298.9
65°	365.0	375.1	405.3	450.6	448.1	485.8	584.0	933.9	3433.6	3793.6	4098.2
67.5°	387.7	402.8	397.7	410.3	402.8	422.9	523.6	750.2	2698.6	2857.1	3033.4
70°	382.6	417.9	435.5	410.3	352.4	375.1	453.1	599.1	1930.8	1915.7	1908.1
72.5°	334.8	370.0	420.4	445.6	344.9	312.1	392.7	518.6	1238.5	1233.5	1115.2
75°	284.5	309.6	370.0	402.8	297.0	251.7	337.3	440.5	740.1	750.2	669.6
77.5°	261.8	249.2	309.6	354.9	241.7	193.8	271.9	332.3	407.8	412.8	382.6
80°	188.8	181.2	231.6	259.3	183.8	138.5	153.6	206.4	219.0	196.4	203.9
82.5°	120.8	123.3	138.5	166.1	113.3	75.5	105.7	138.5	118.3	95.7	113.3
85°	78.0	88.1	73.0	85.6	35.2	35.2	45.3	60.4	40.3	27.7	30.2
87.5°	0.0	0.0	5.0	10.1	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: P1501330
CATALOG NUMBER: GSS-SB2B-740-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1777.2	1777.2	*1777.2*	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1784.8	1782.3	*1782.3*	1787.3	1799.9	1804.9	1812.5	1809.9	1817.5	1812.5
5°	1820.0	1822.5	*1830.1*	1832.6	1840.2	1850.2	1852.7	1850.2	1855.3	1855.3
7.5°	1890.5	1900.6	*1895.5*	1908.1	1898.1	1885.5	1865.3	1850.2	1837.6	1842.7
10°	2008.8	2003.8	*2001.3*	1978.6	1933.3	1867.8	1815.0	1757.1	1747.0	1736.9
12.5°	2139.7	2134.7	*2134.7*	2056.6	1928.3	1792.3	1671.5	1580.9	1550.7	1548.1
15°	2323.5	2290.8	*2260.5*	2096.9	1840.2	1608.6	1467.6	1397.1	1379.5	1379.5
17.5°	2552.6	2467.0	*2416.6*	2066.7	1696.7	1487.7	1404.7	1387.0	1382.0	1394.6
20°	2837.0	2620.5	*2547.5*	1998.7	1643.8	1502.8	1462.6	1465.1	1467.6	1485.2
22.5°	3149.2	2761.5	*2640.7*	1998.7	1696.7	1598.5	1578.4	1606.0	1613.6	1628.7
25°	3496.5	2887.4	*2723.7*	2104.5	1852.7	1779.7	1754.6	1782.3	1802.4	1827.6
27.5°	3886.7	3018.3	*2867.2*	2295.8	2054.1	2008.8	1981.1	1993.7	2021.4	2051.6
30°	4236.6	3237.3	*3086.2*	2587.8	2328.5	2273.1	2225.3	2245.4	2275.6	2295.8
32.5°	4546.3	3504.1	*3375.7*	2894.9	2643.2	2547.5	2494.7	2489.6	2550.0	2534.9
35°	4830.7	3818.8	*3695.4*	3244.8	2962.9	2844.6	2774.1	2864.7	2824.4	2839.5
37.5°	5054.8	4146.0	*4047.8*	3579.6	3295.2	3134.1	3091.3	3202.0	3265.0	3282.6
40°	5238.5	4430.5	*4327.3*	3911.9	3599.8	3481.4	3549.4	3733.2	3725.6	3718.1
42.5°	5379.5	4674.6	*4561.4*	4163.6	3891.8	3914.4	3967.3	4090.6	4120.8	4078.0
45°	5442.4	4828.2	*4737.6*	4362.5	4224.0	4354.9	4377.6	4430.5	4410.3	4382.6
47.5°	5515.4	4964.1	*4868.5*	4543.7	4584.0	4712.4	4667.1	4624.3	4551.3	4508.5
50°	5638.8	5125.2	*5044.7*	4808.1	4954.1	4911.3	4735.1	4639.4	4490.9	4440.5
52.5°	5872.9	5429.8	*5369.4*	5225.9	5127.8	4881.1	4667.1	4495.9	4329.8	4261.8
55°	6081.8	5842.7	*5807.4*	5616.1	5074.9	4722.5	4435.5	4171.2	3886.7	3828.8
57.5°	6202.7	6527.4	*6567.7*	5782.3	4833.2	4362.5	3939.6	3516.7	3247.3	3199.5
60°	*5842.7*	*7267.5*	*7287.6*	*5749.5*	*4397.7*	*3713.0*	*3068.6*	*2769.0*	*2479.6*	*2396.5*
62.5°	5346.8	7113.9	*7096.3*	5553.2	3501.6	2708.6	2331.0	2190.1	1966.0	1898.1
65°	4596.6	5925.7	*5945.9*	4798.0	2328.5	1958.5	1958.5	1779.7	1530.5	1482.7
67.5°	3745.8	4568.9	*4523.6*	3111.4	1429.8	1568.3	1643.8	1387.0	1037.1	979.2
70°	2434.2	3489.0	*3426.1*	1794.8	898.7	1306.5	1293.9	1042.2	742.6	702.3
72.5°	1047.2	2016.4	*2144.7*	916.3	677.2	1052.2	1032.1	730.0	495.9	478.3
75°	631.8	1014.5	*1105.1*	584.0	493.4	793.0	714.9	463.2	337.3	324.7
77.5°	400.3	556.3	*551.3*	438.0	370.0	536.2	480.8	319.7	229.1	219.0
80°	231.6	274.4	*284.5*	274.4	249.2	382.6	307.1	231.6	178.7	166.1
82.5°	148.5	171.2	*173.7*	133.4	138.5	246.7	166.1	135.9	103.2	93.1
85°	65.5	73.0	*70.5*	45.3	45.3	100.7	57.9	55.4	40.3	40.3
87.5°	2.5	5.0	*2.5*	2.5	2.5	10.1	5.0	7.6	7.6	7.6
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

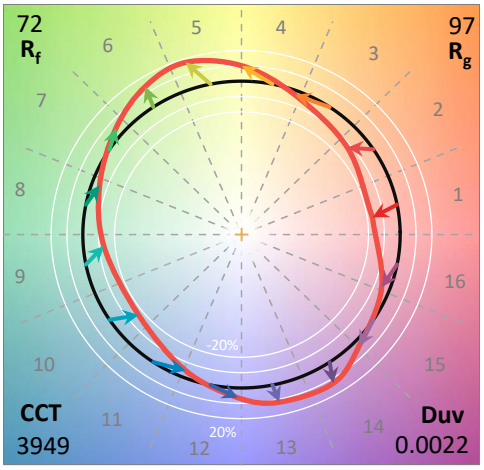
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
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-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



Test Conditions

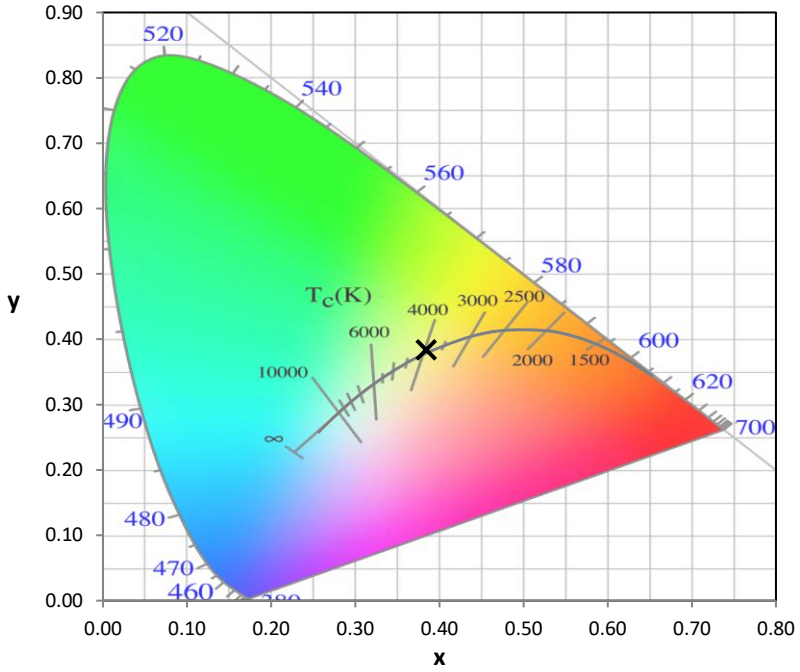
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

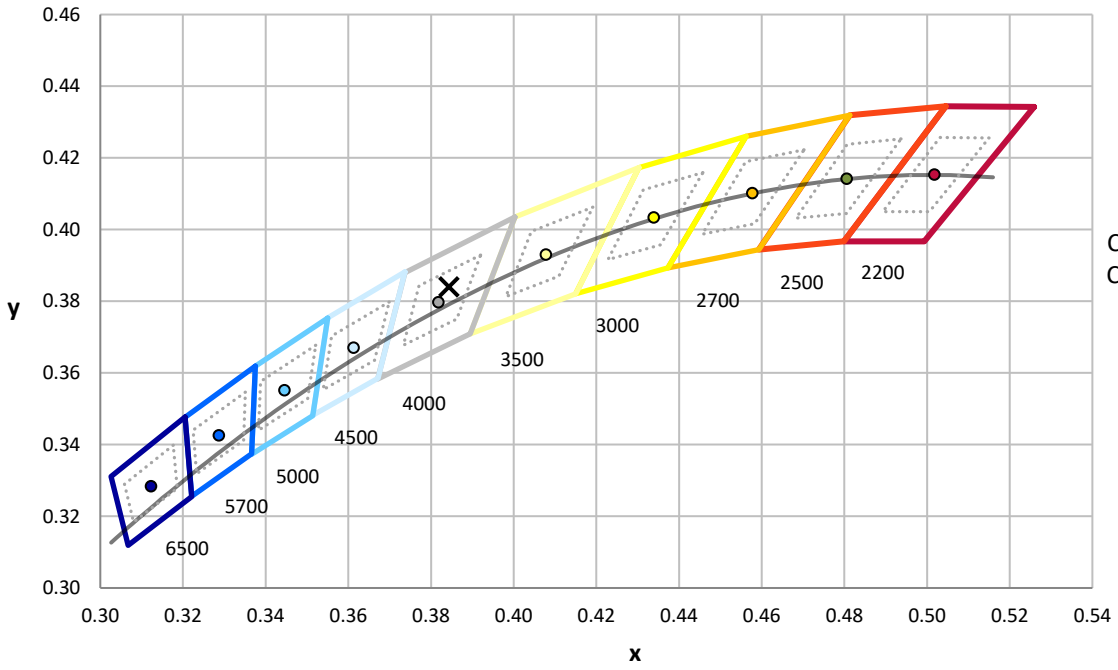
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

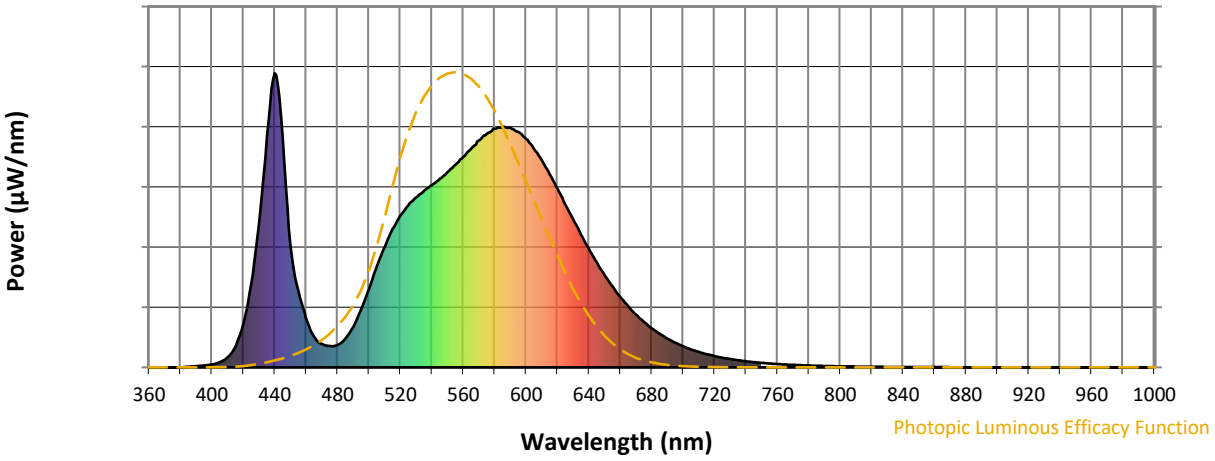


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

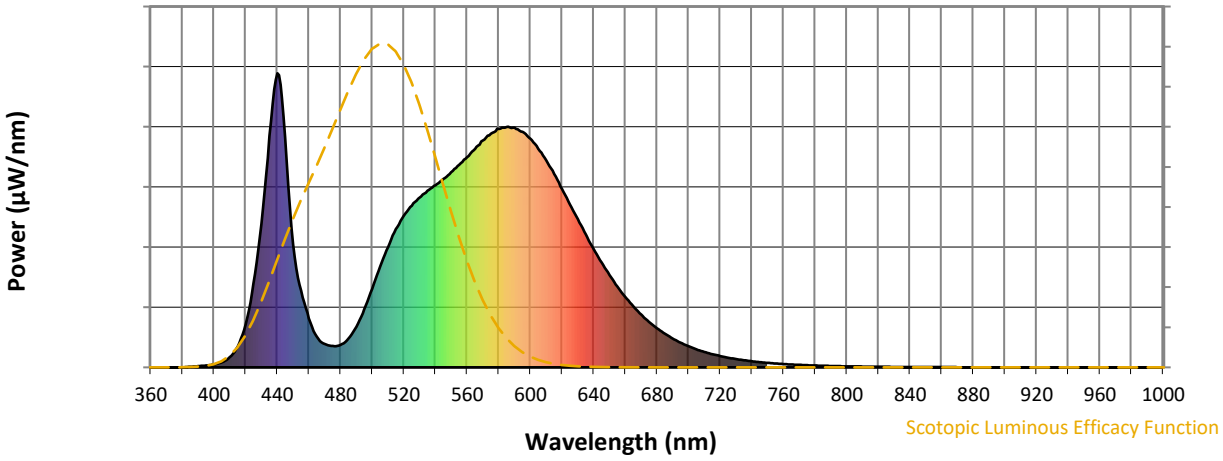


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

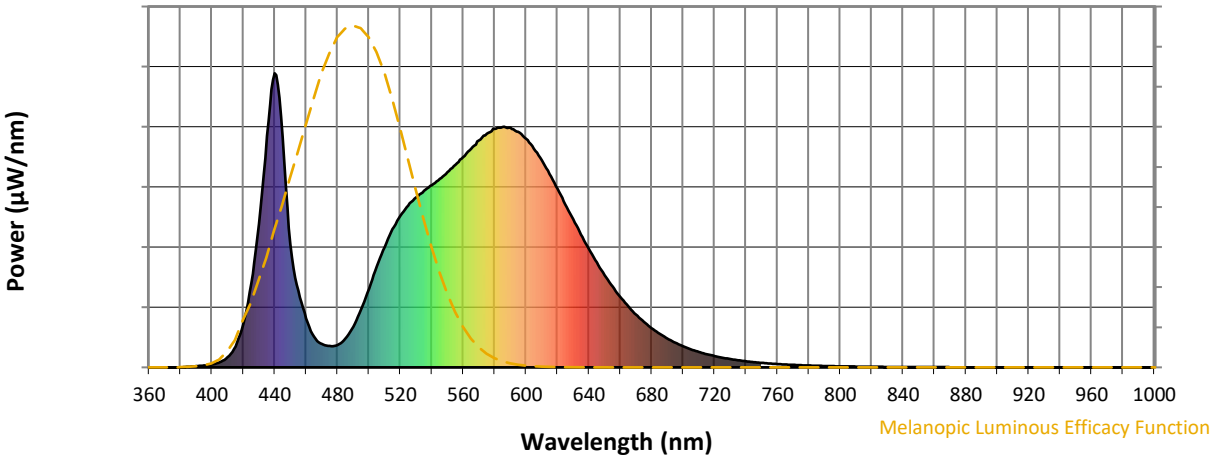


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

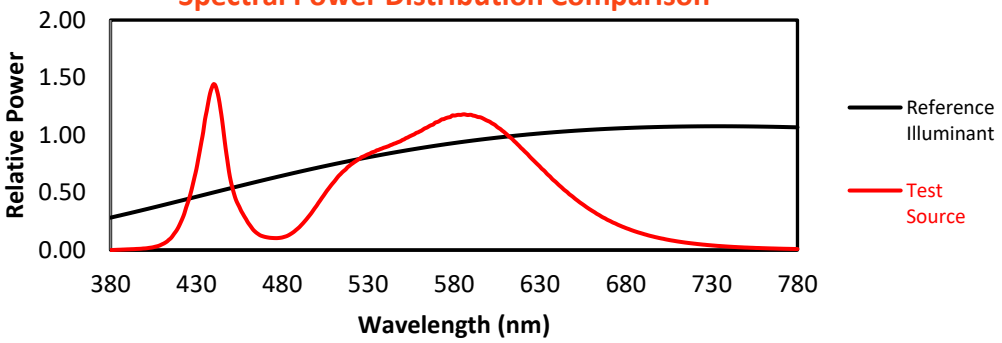
REPORT NUMBER: SP1-2407-184-1

TM-30-18

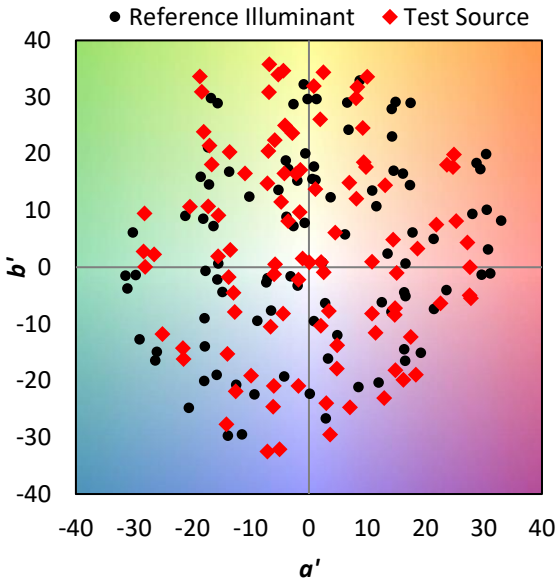
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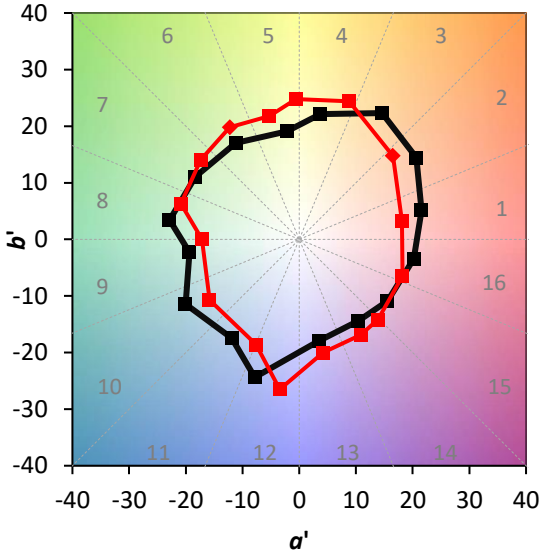
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

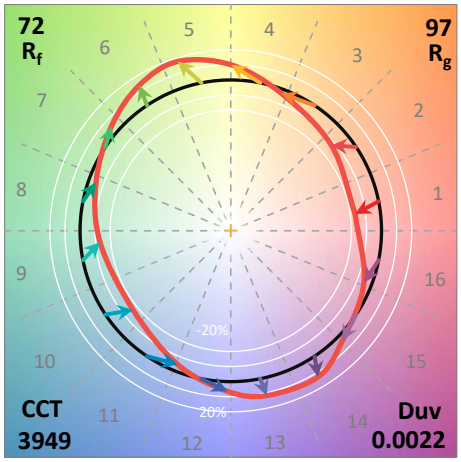
Spectral Power Distribution Comparison

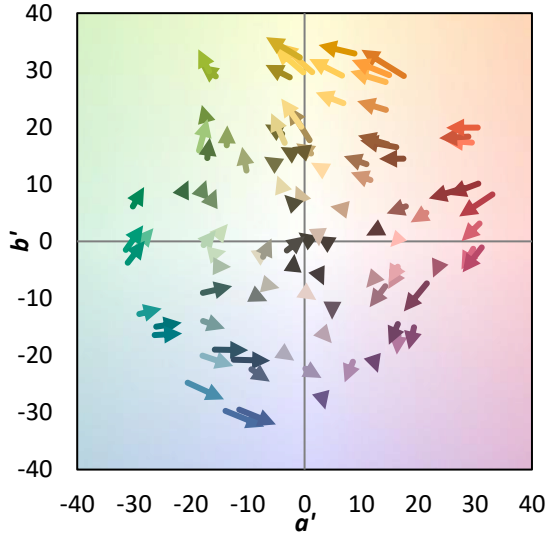


Color Vector Graphics







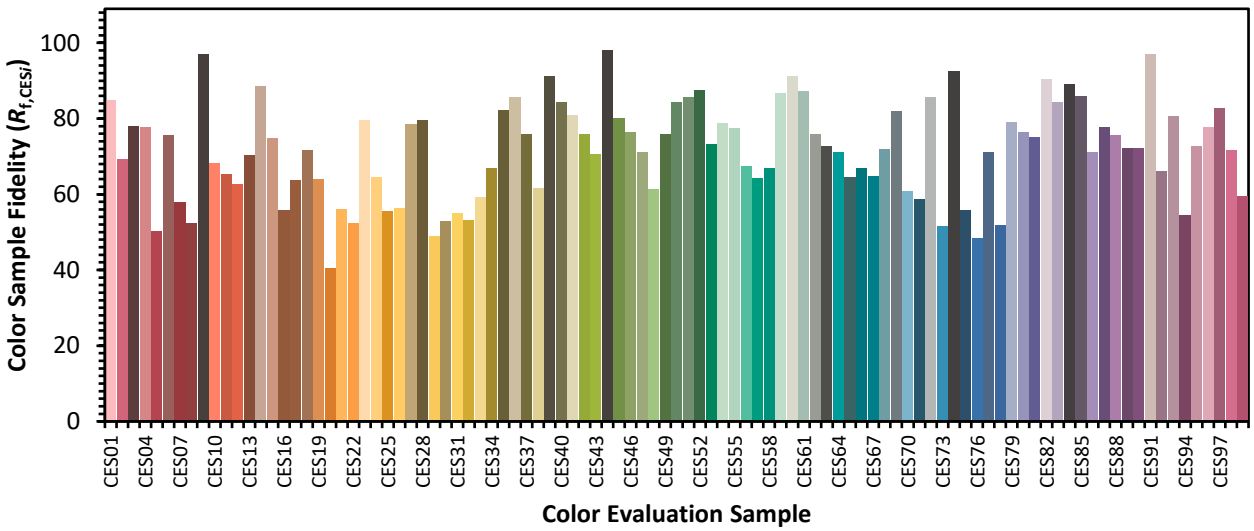


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Individual Sample Fidelity Index ($R_{f,i}$)

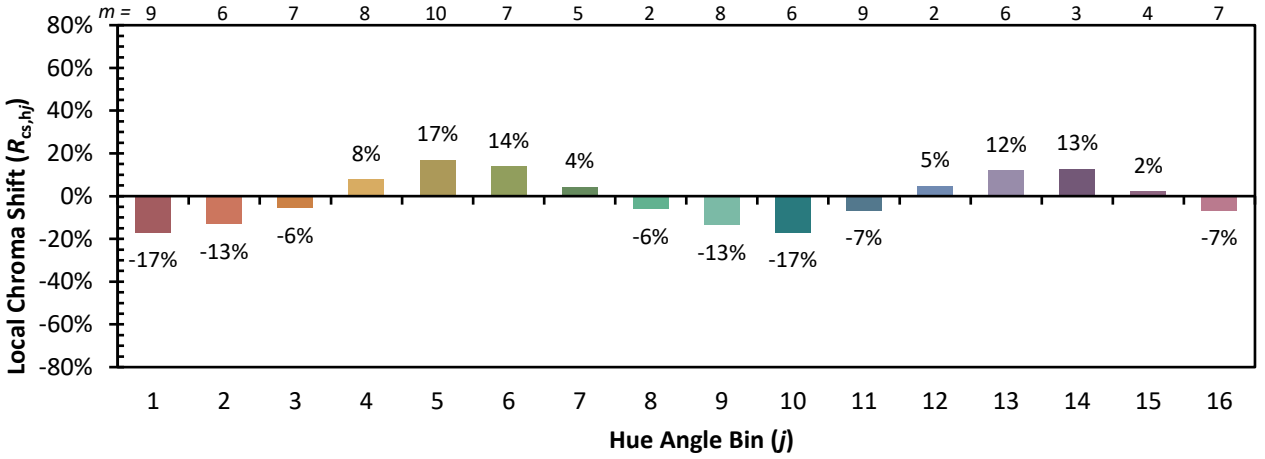
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

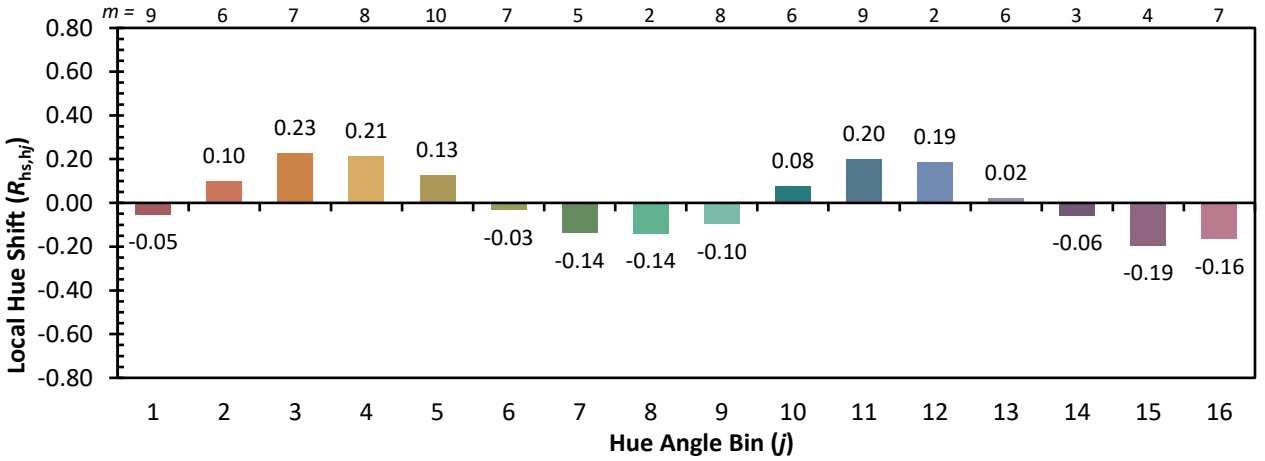


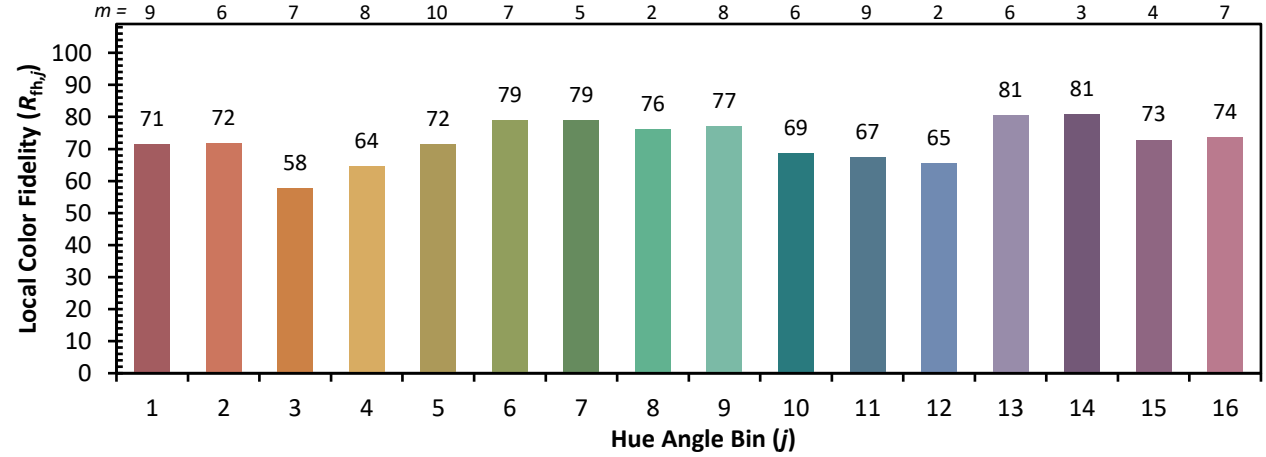
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Color Rendition by Hue-Angle Bin



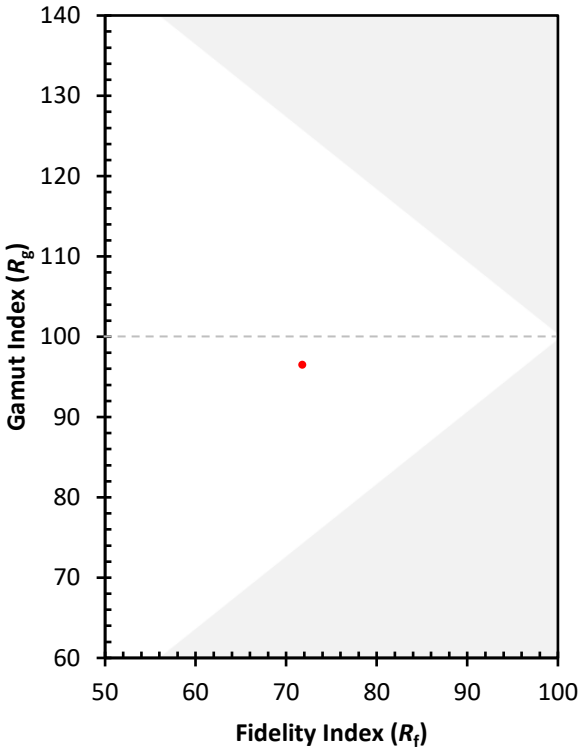


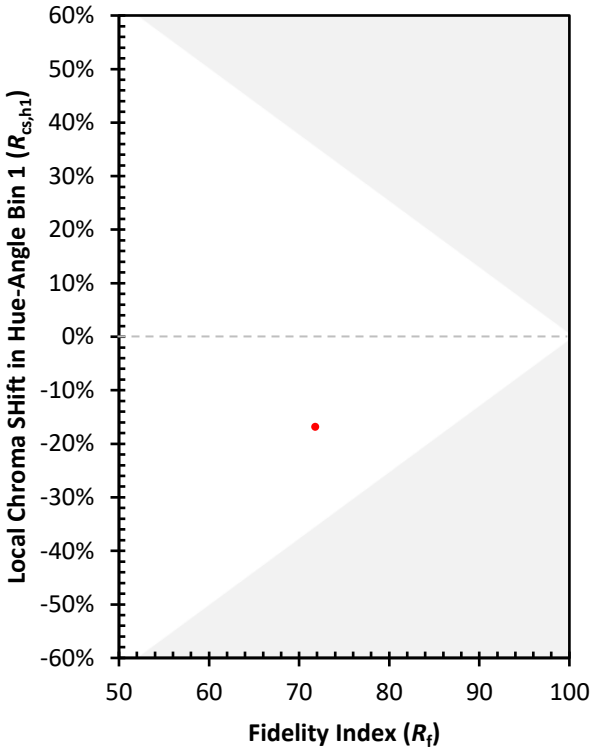


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Measure Comparisons





(END OF REPORT)