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: P1501549

Luminaire Tested: GSS-SB3A-835-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:	P1501549
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-835-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11583 lumens
Efficiency:	N/A
Efficacy:	136.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

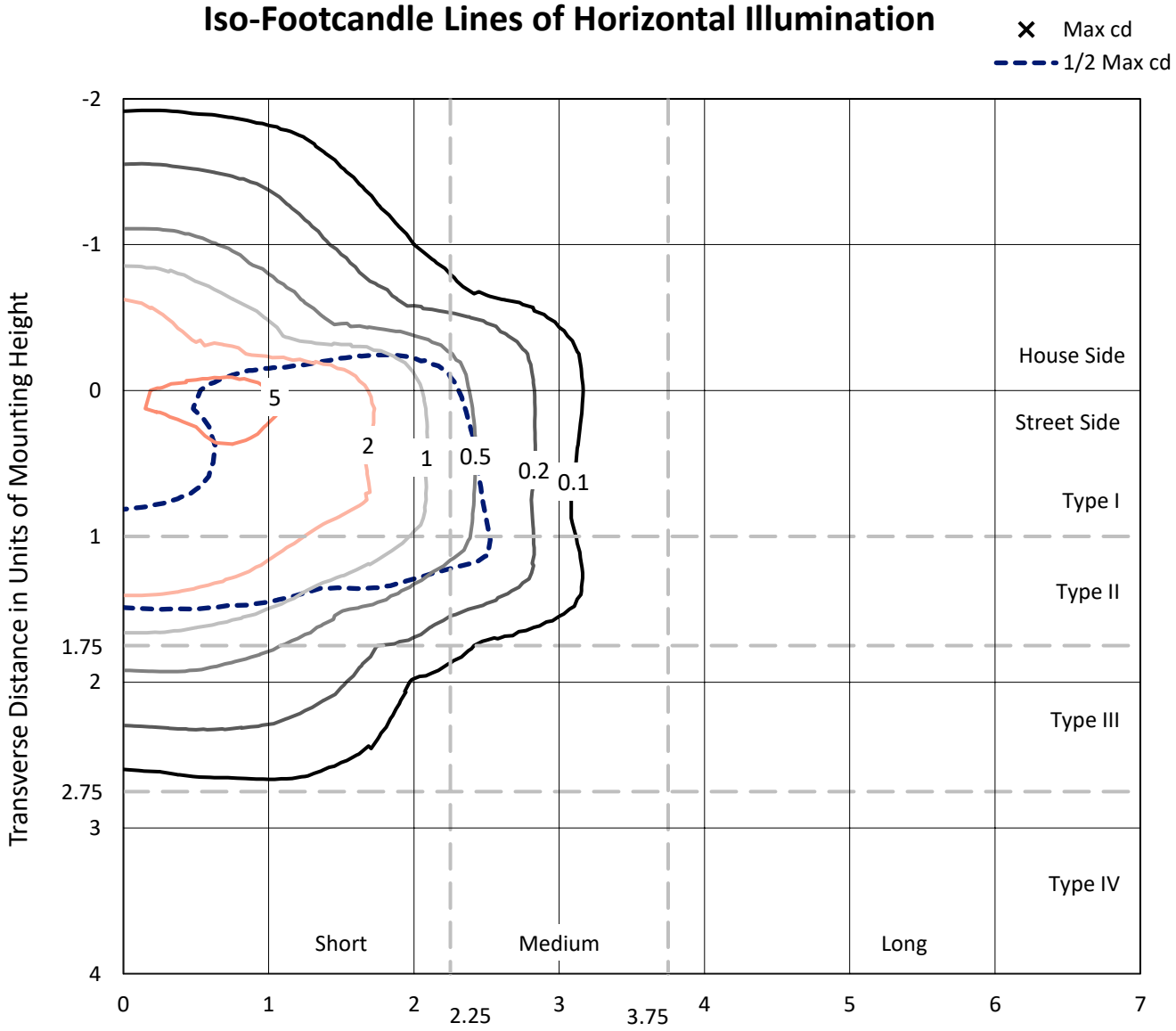
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



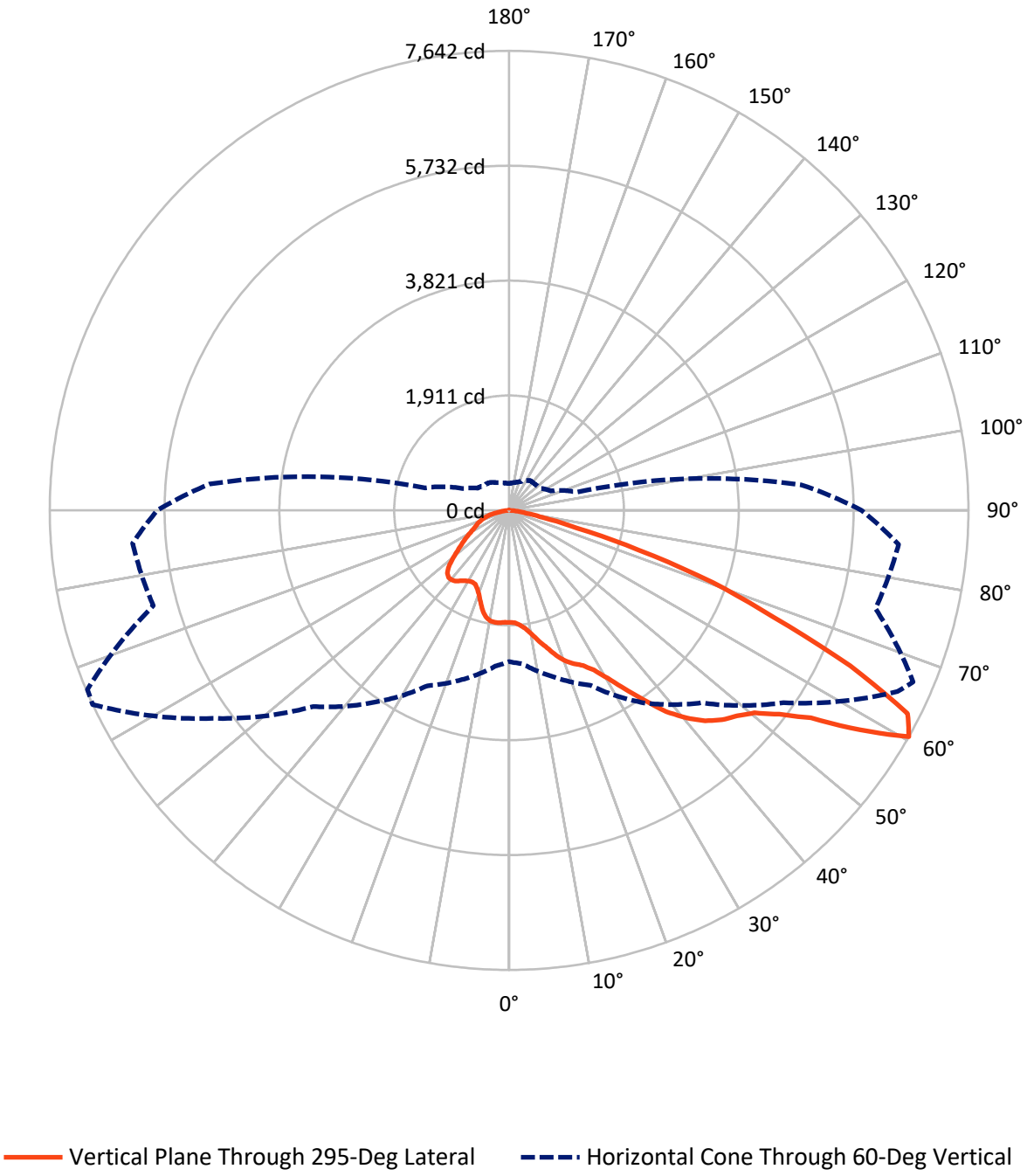
Based on 20 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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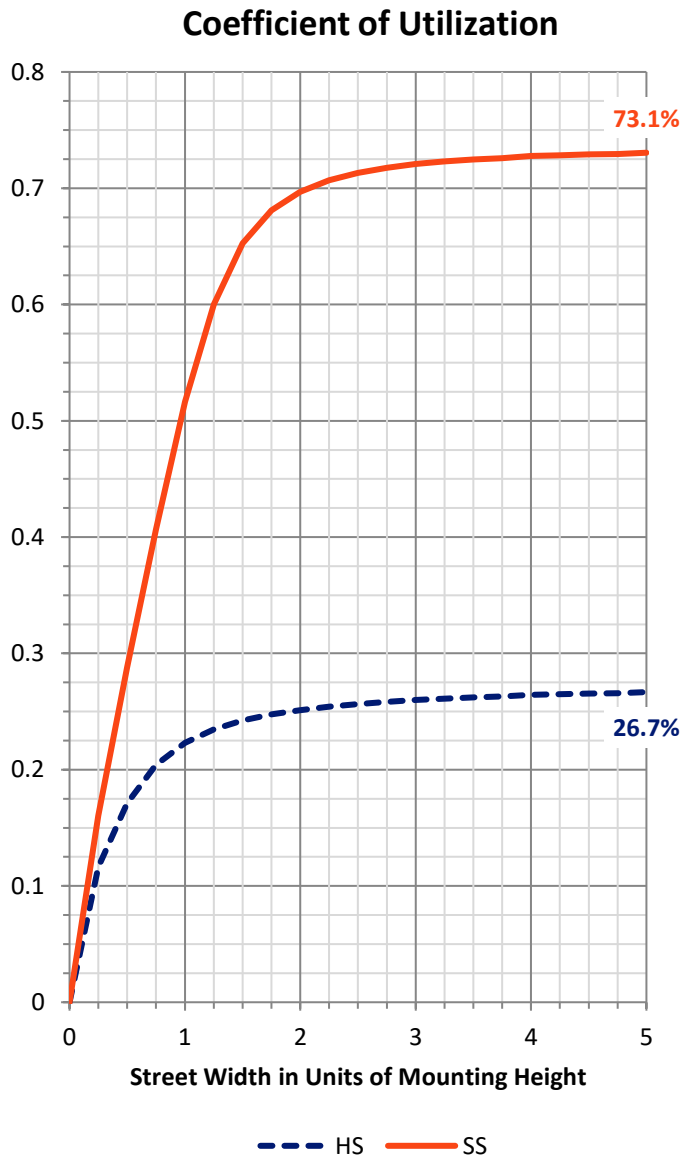
REPORT NUMBER: P1501549
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3114.8	0.0	3114.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8468.2	0.0	8468.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	11583.0	0.0	11583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	1.5
10°-20°	503.7	4.3
20°-30°	954.1	8.2
30°-40°	1682.1	14.5
40°-50°	2487.6	21.5
50°-60°	2921.1	25.2
60°-70°	2116.5	18.3
70°-80°	652.7	5.6
80°-90°	89.9	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°	11583.0	100.0
0°-180°	11583.0	100.0



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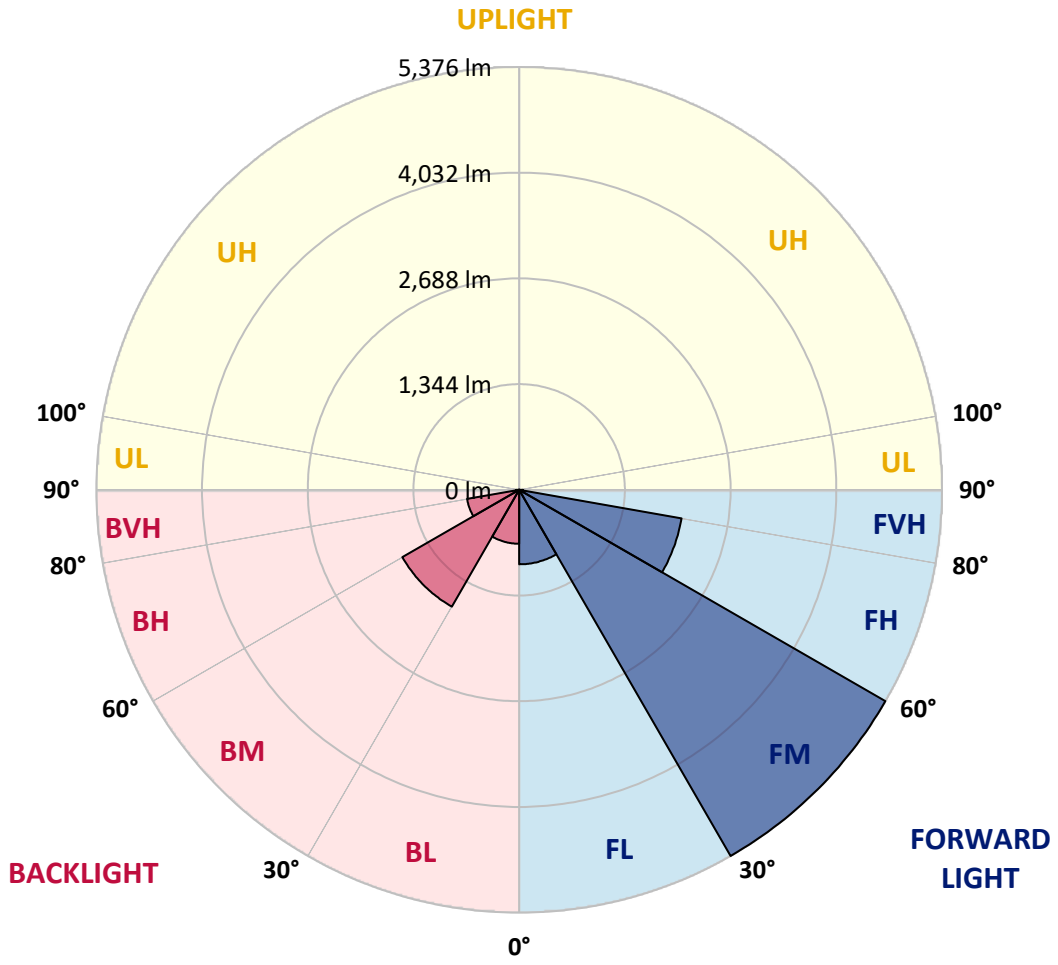
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	947.1	8.2			
FM	(30°-60°)	5375.8	46.4			
FH	(60°-80°)	2096.9	18.1			G2/5000
FVH	(80°-90°)	48.5	0.4			G1/100
BL	(0°-30°)	686.0	5.9	B2/1000		
BM	(30°-60°)	1715.1	14.8	B2/2500		
BH	(60°-80°)	672.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	41.4	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°	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7
2.5°	1900.6	1905.9	1898.0	1903.2	1903.2	1895.3	1892.7	1882.1	1887.4	1884.8	1882.1
5°	1945.5	1948.1	1942.8	1950.8	1950.8	1953.4	1950.8	1937.6	1937.6	1937.6	1932.3
7.5°	1932.3	1932.3	1934.9	1961.3	1987.7	2022.0	2022.0	2016.8	2022.0	2019.4	1995.6
10°	1821.4	1832.0	1855.7	1921.7	1985.1	2059.0	2109.1	2125.0	2125.0	2127.6	2088.0
12.5°	1623.4	1631.4	1686.8	1787.1	1919.1	2053.7	2175.1	2254.3	2262.3	2275.5	2222.7
15°	1446.6	1451.9	1491.5	1594.4	1744.9	1982.4	2212.1	2375.8	2402.2	2457.6	2378.4
17.5°	1462.4	1459.8	1470.3	1509.9	1618.2	1866.3	2204.2	2518.3	2565.8	2663.5	2594.9
20°	1557.4	1557.4	1565.4	1573.3	1612.9	1781.8	2146.1	2634.5	2726.8	2916.9	2837.7
22.5°	1707.9	1707.9	1705.3	1718.5	1718.5	1818.8	2148.7	2721.6	2858.8	3199.4	3122.8
25°	1916.4	1905.9	1905.9	1911.2	1887.4	1958.7	2214.7	2811.3	2990.8	3534.6	3468.6
27.5°	2151.4	2159.3	2154.0	2135.5	2103.9	2159.3	2373.1	2951.2	3138.6	3888.3	3861.9
30°	2407.4	2410.1	2415.4	2404.8	2378.4	2418.0	2621.3	3162.4	3334.0	4257.9	4316.0
32.5°	2658.2	2695.2	2682.0	2655.6	2666.1	2737.4	2927.5	3447.5	3624.4	4601.1	4807.0
35°	2977.6	2990.8	3043.6	2945.9	2948.6	3070.0	3318.1	3822.3	3993.9	4957.4	5298.0
37.5°	3442.2	3466.0	3442.2	3289.1	3265.4	3434.3	3698.3	4191.9	4316.0	5226.7	5754.6
40°	3898.9	3927.9	3967.5	3788.0	3637.6	3777.5	4057.3	4474.4	4603.7	5374.5	6058.2
42.5°	4276.4	4323.9	4281.7	4228.9	4091.6	4118.0	4308.0	4693.5	4822.8	5561.9	6364.4
45°	4595.8	4603.7	4622.2	4585.2	4516.6	4492.8	4521.9	4886.2	5028.7	5646.4	6514.9
47.5°	4727.8	4762.1	4777.9	4841.3	4912.5	4865.0	4704.0	4975.9	5105.2	5641.1	6562.4
50°	4656.5	4690.8	4775.3	4925.7	5097.3	5181.8	4917.8	5100.0	5245.2	5736.1	6660.1
52.5°	4469.1	4506.0	4643.3	4814.9	5102.6	5295.3	5218.8	5358.7	5498.6	5905.1	6823.7
55°	4015.0	4070.5	4263.2	4548.3	4944.2	5234.6	5535.5	5738.8	5891.9	6108.3	6992.7
57.5°	3355.1	3413.2	3629.6	4057.3	4651.2	4983.8	5627.9	6451.5	6520.1	6351.2	7008.5
60°	*2513.0*	*2560.5*	*2866.8*	*3209.9*	*3906.8*	*4524.5*	*5575.1*	*7127.3*	*7301.5*	*6309.0*	*6504.3*
62.5°	1990.4	2048.4	2320.3	2478.7	2977.6	3737.9	5390.3	7314.7	7465.2	5960.5	5802.1
65°	1554.8	1594.4	1847.8	2074.8	2196.3	2552.6	4619.5	6398.7	6533.3	5393.0	4788.5
67.5°	1026.9	1087.6	1388.5	1700.0	1763.3	1623.4	3178.2	4923.1	4986.5	4286.9	3600.6
70°	736.5	765.5	989.9	1322.5	1417.5	1087.6	1731.7	3727.3	3745.8	2877.3	2425.9
72.5°	501.5	506.8	673.1	1013.7	1129.8	789.3	952.9	2455.0	2391.6	1420.2	1388.5
75°	340.5	345.8	430.3	675.8	799.8	549.1	620.3	1338.3	1285.6	784.0	842.1
77.5°	229.7	234.9	295.7	454.0	533.2	380.1	454.0	707.4	694.3	520.0	451.4
80°	174.2	182.1	219.1	290.4	372.2	221.7	258.7	335.2	340.5	277.2	229.7
82.5°	97.7	108.2	132.0	147.8	240.2	124.1	124.1	200.6	192.7	171.6	124.1
85°	42.2	44.9	52.8	55.4	97.7	52.8	44.9	87.1	89.8	84.5	39.6
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	10.6	10.6	10.6	10.6
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°	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7
2.5°	1868.9	1884.8	1868.9	1861.0	1861.0	1847.8	1842.5	1842.5	1824.1	1832.0	1826.7
5°	1911.2	1916.4	1898.0	1874.2	1842.5	1816.1	1779.2	1731.7	1702.6	1700.0	1702.6
7.5°	1977.2	1979.8	1929.6	1876.9	1797.7	1702.6	1589.1	1496.7	1414.9	1401.7	1417.5
10°	2069.6	2064.3	1990.4	1866.3	1700.0	1499.4	1325.1	1240.7	1193.2	1190.5	1187.9
12.5°	2193.6	2159.3	2045.8	1821.4	1531.0	1298.8	1209.0	1203.7	1216.9	1227.5	1230.1
15°	2336.2	2291.3	2090.7	1734.3	1359.5	1224.8	1230.1	1275.0	1290.8	1301.4	1301.4
17.5°	2513.0	2455.0	2140.8	1610.2	1272.4	1240.7	1277.6	1319.9	1346.3	1356.8	1354.2
20°	2748.0	2626.5	2180.4	1491.5	1248.6	1267.1	1298.8	1341.0	1367.4	1380.6	1380.6
22.5°	2982.9	2832.4	2188.3	1409.6	1248.6	1269.7	1298.8	1341.0	1370.0	1383.2	1380.6
25°	3302.3	3096.4	2191.0	1351.5	1251.2	1256.5	1282.9	1319.9	1362.1	1375.3	1380.6
27.5°	3642.8	3386.8	2204.2	1338.3	1240.7	1238.0	1256.5	1290.8	1333.1	1367.4	1370.0
30°	4065.2	3714.1	2209.5	1351.5	1243.3	1209.0	1222.2	1256.5	1301.4	1335.7	1346.3
32.5°	4479.6	4017.7	2198.9	1380.6	1248.6	1190.5	1193.2	1214.3	1261.8	1285.6	1304.0
35°	4917.8	4339.7	2180.4	1420.2	1251.2	1182.6	1158.8	1169.4	1201.1	1203.7	1211.6
37.5°	5261.0	4579.9	2125.0	1473.0	1256.5	1153.6	1106.0	1098.1	1084.9	1058.5	1063.8
40°	5543.4	4741.0	2032.6	1499.4	1243.3	1119.2	1040.1	1003.1	952.9	913.3	921.3
42.5°	5746.7	4849.2	1921.7	1504.6	1222.2	1061.2	963.5	900.1	844.7	802.5	805.1
45°	5836.5	4838.6	1802.9	1465.1	1172.0	989.9	892.2	831.5	770.8	725.9	720.6
47.5°	5839.1	4735.7	1639.3	1370.0	1087.6	908.1	826.2	760.2	710.1	678.4	675.8
50°	5860.2	4677.6	1486.2	1232.8	976.7	821.0	768.2	702.2	673.1	628.3	615.1
52.5°	5992.2	4772.6	1380.6	1082.3	873.8	757.6	718.0	659.9	612.4	583.4	580.7
55°	6206.0	4936.3	1322.5	968.8	776.1	696.9	670.5	620.3	578.1	549.1	541.1
57.5°	6232.4	5020.8	1253.9	863.2	696.9	649.4	638.8	583.4	522.7	501.5	493.6
60°	*5862.9*	*4878.2*	*1169.4*	*765.5*	*638.8*	*612.4*	*607.1*	*533.2*	*483.1*	*456.7*	*446.1*
62.5°	5358.7	4521.9	1040.1	675.8	593.9	575.5	554.3	496.3	432.9	403.9	396.0
65°	4379.3	3801.2	884.3	615.1	549.1	527.9	522.7	443.5	401.2	385.4	382.8
67.5°	3318.1	3054.2	778.7	570.2	501.5	493.6	475.2	448.8	430.3	411.8	406.5
70°	2346.7	2204.2	662.6	512.1	454.0	440.8	517.4	488.4	422.4	398.6	396.0
72.5°	1422.8	1383.2	572.8	459.3	390.7	411.8	477.8	440.8	380.1	351.1	340.5
75°	897.5	821.0	480.4	390.7	311.5	335.2	417.1	393.3	327.3	298.3	290.4
77.5°	488.4	454.0	361.6	319.4	245.5	271.9	364.3	324.7	261.3	285.1	253.4
80°	213.8	237.6	240.2	184.8	163.7	200.6	261.3	253.4	200.6	203.3	168.9
82.5°	102.9	134.6	155.7	126.7	92.4	118.8	174.2	145.2	134.6	126.7	121.4
85°	31.7	50.2	68.6	60.7	42.2	50.2	81.8	79.2	95.0	81.8	76.6
87.5°	10.6	10.6	7.9	7.9	7.9	10.6	13.2	7.9	2.6	2.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7
2.5°	1824.1	1826.7	1826.7	1829.3	1829.3	1837.3	1847.8	1858.4	1850.5	1861.0	1863.7
5°	1697.4	1710.5	1721.1	1760.7	1792.4	1818.8	1847.8	1874.2	1882.1	1887.4	1900.6
7.5°	1399.1	1436.0	1504.6	1594.4	1694.7	1792.4	1858.4	1927.0	1937.6	1950.8	1969.2
10°	1190.5	1206.4	1253.9	1346.3	1525.8	1718.5	1879.5	1987.7	2032.6	2059.0	2077.5
12.5°	1224.8	1214.3	1206.4	1219.6	1335.7	1583.8	1866.3	2074.8	2159.3	2188.3	2212.1
15°	1306.7	1296.1	1267.1	1230.1	1243.3	1441.3	1821.4	2156.7	2291.3	2338.8	2389.0
17.5°	1354.2	1343.6	1319.9	1280.3	1246.0	1322.5	1736.9	2230.6	2499.8	2557.9	2629.2
20°	1380.6	1370.0	1346.3	1306.7	1267.1	1277.6	1628.7	2323.0	2737.4	2829.8	2935.4
22.5°	1385.9	1372.7	1346.3	1306.7	1282.9	1275.0	1525.8	2378.4	2993.5	3136.0	3257.4
25°	1383.2	1359.5	1325.1	1296.1	1282.9	1280.3	1454.5	2410.1	3270.6	3497.7	3634.9
27.5°	1364.7	1335.7	1301.4	1280.3	1275.0	1290.8	1422.8	2447.0	3595.3	3885.7	4104.8
30°	1343.6	1301.4	1259.2	1251.2	1264.4	1314.6	1449.2	2460.2	3935.8	4308.0	4532.4
32.5°	1288.2	1256.5	1214.3	1211.6	1243.3	1333.1	1509.9	2441.8	4236.8	4730.4	5012.9
35°	1209.0	1190.5	1166.8	1174.7	1224.8	1348.9	1552.2	2383.7	4511.3	5123.7	5453.7
37.5°	1069.1	1082.3	1095.5	1114.0	1177.3	1346.3	1570.6	2291.3	4738.3	5437.9	5860.2
40°	913.3	958.2	1000.5	1048.0	1132.4	1325.1	1575.9	2177.8	4870.3	5675.4	6221.9
42.5°	815.7	857.9	910.7	979.3	1071.7	1277.6	1570.6	2051.1	4912.5	5839.1	6451.5
45°	725.9	776.1	842.1	913.3	1018.9	1209.0	1523.1	1913.8	4933.7	5915.6	6549.2
47.5°	678.4	707.4	768.2	839.4	950.3	1124.5	1430.7	1813.5	4902.0	5931.5	6668.0
50°	623.0	662.6	702.2	770.8	879.0	1018.9	1319.9	1755.4	4954.8	6087.2	6855.4
52.5°	580.7	601.9	644.1	707.4	786.6	921.3	1214.3	1707.9	5100.0	6245.6	7050.7
55°	549.1	572.8	599.2	652.0	712.7	823.6	1106.0	1636.6	5268.9	6414.6	7246.1
57.5°	498.9	514.7	551.7	607.1	646.7	728.6	979.3	1552.2	5255.7	6282.6	6908.2
60°	*454.0*	*469.9*	*509.5*	*564.9*	*588.7*	*644.1*	*855.3*	*1443.9*	*5002.3*	*5852.3*	*6285.2*
62.5°	403.9	422.4	469.9	509.5	530.6	572.8	725.9	1246.0	4474.4	5205.6	5556.6
65°	382.8	393.3	425.0	472.5	469.9	509.5	612.4	979.3	3600.6	3978.1	4297.5
67.5°	406.5	422.4	417.1	430.3	422.4	443.5	549.1	786.6	2829.8	2996.1	3180.9
70°	401.2	438.2	456.7	430.3	369.6	393.3	475.2	628.3	2024.7	2008.8	2000.9
72.5°	351.1	388.0	440.8	467.2	361.6	327.3	411.8	543.8	1298.8	1293.5	1169.4
75°	298.3	324.7	388.0	422.4	311.5	264.0	353.7	462.0	776.1	786.6	702.2
77.5°	274.5	261.3	324.7	372.2	253.4	203.3	285.1	348.4	427.6	432.9	401.2
80°	198.0	190.1	242.9	271.9	192.7	145.2	161.0	216.5	229.7	205.9	213.8
82.5°	126.7	129.3	145.2	174.2	118.8	79.2	110.9	145.2	124.1	100.3	118.8
85°	81.8	92.4	76.6	89.8	37.0	37.0	47.5	63.4	42.2	29.0	31.7
87.5°	0.0	0.0	5.3	10.6	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

REPORT NUMBER: P1501549
CATALOG NUMBER: GSS-SB3A-835-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1863.7	1863.7	*1863.7*	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7	1863.7
2.5°	1871.6	1868.9	*1868.9*	1874.2	1887.4	1892.7	1900.6	1898.0	1905.9	1900.6
5°	1908.5	1911.2	*1919.1*	1921.7	1929.6	1940.2	1942.8	1940.2	1945.5	1945.5
7.5°	1982.4	1993.0	*1987.7*	2000.9	1990.4	1977.2	1956.0	1940.2	1927.0	1932.3
10°	2106.5	2101.2	*2098.6*	2074.8	2027.3	1958.7	1903.2	1842.5	1832.0	1821.4
12.5°	2243.8	2238.5	*2238.5*	2156.7	2022.0	1879.5	1752.8	1657.8	1626.1	1623.4
15°	2436.5	2402.2	*2370.5*	2198.9	1929.6	1686.8	1539.0	1465.1	1446.6	1446.6
17.5°	2676.7	2586.9	*2534.1*	2167.2	1779.2	1560.1	1473.0	1454.5	1449.2	1462.4
20°	2975.0	2748.0	*2671.4*	2096.0	1723.7	1575.9	1533.7	1536.3	1539.0	1557.4
22.5°	3302.3	2895.8	*2769.1*	2096.0	1779.2	1676.2	1655.1	1684.2	1692.1	1707.9
25°	3666.6	3027.8	*2856.2*	2206.8	1942.8	1866.3	1839.9	1868.9	1890.1	1916.4
27.5°	4075.8	3165.0	*3006.7*	2407.4	2154.0	2106.5	2077.5	2090.7	2119.7	2151.4
30°	4442.7	3394.7	*3236.3*	2713.6	2441.8	2383.7	2333.5	2354.6	2386.3	2407.4
32.5°	4767.4	3674.5	*3539.9*	3035.7	2771.7	2671.4	2616.0	2610.7	2674.1	2658.2
35°	5065.7	4004.5	*3875.1*	3402.6	3107.0	2982.9	2909.0	3004.0	2961.8	2977.6
37.5°	5300.6	4347.6	*4244.7*	3753.7	3455.4	3286.5	3241.6	3357.7	3423.7	3442.2
40°	5493.3	4645.9	*4537.7*	4102.1	3774.8	3650.8	3722.0	3914.7	3906.8	3898.9
42.5°	5641.1	4902.0	*4783.2*	4366.1	4081.0	4104.8	4160.2	4289.6	4321.2	4276.4
45°	5707.1	5063.0	*4968.0*	4574.7	4429.5	4566.7	4590.5	4645.9	4624.8	4595.8
47.5°	5783.7	5205.6	*5105.2*	4764.7	4807.0	4941.6	4894.1	4849.2	4772.6	4727.8
50°	5913.0	5374.5	*5290.0*	5041.9	5195.0	5150.1	4965.3	4865.0	4709.3	4656.5
52.5°	6158.5	5693.9	*5630.6*	5480.1	5377.1	5118.4	4894.1	4714.6	4540.3	4469.1
55°	6377.6	6126.8	*6089.9*	5889.3	5321.7	4952.1	4651.2	4374.0	4075.8	4015.0
57.5°	6504.3	6844.8	*6887.1*	6063.5	5068.3	4574.7	4131.2	3687.7	3405.3	3355.1
60°	*6126.8*	*7620.9*	*7642.0*	*6029.2*	*4611.6*	*3893.6*	*3217.8*	*2903.7*	*2600.1*	*2513.0*
62.5°	5606.8	7459.9	*7441.4*	5823.3	3671.9	2840.4	2444.4	2296.6	2061.6	1990.4
65°	4820.2	6213.9	*6235.1*	5031.3	2441.8	2053.7	2053.7	1866.3	1605.0	1554.8
67.5°	3927.9	4791.1	*4743.6*	3262.7	1499.4	1644.6	1723.7	1454.5	1087.6	1026.9
70°	2552.6	3658.7	*3592.7*	1882.1	942.4	1370.0	1356.8	1092.9	778.7	736.5
72.5°	1098.1	2114.4	*2249.1*	960.9	710.1	1103.4	1082.3	765.5	520.0	501.5
75°	662.6	1063.8	*1158.8*	612.4	517.4	831.5	749.7	485.7	353.7	340.5
77.5°	419.7	583.4	*578.1*	459.3	388.0	562.3	504.2	335.2	240.2	229.7
80°	242.9	287.7	*298.3*	287.7	261.3	401.2	322.0	242.9	187.4	174.2
82.5°	155.7	179.5	*182.1*	139.9	145.2	258.7	174.2	142.5	108.2	97.7
85°	68.6	76.6	*73.9*	47.5	47.5	105.6	60.7	58.1	42.2	42.2
87.5°	2.6	5.3	*2.6*	2.6	2.6	10.6	5.3	7.9	7.9	7.9
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

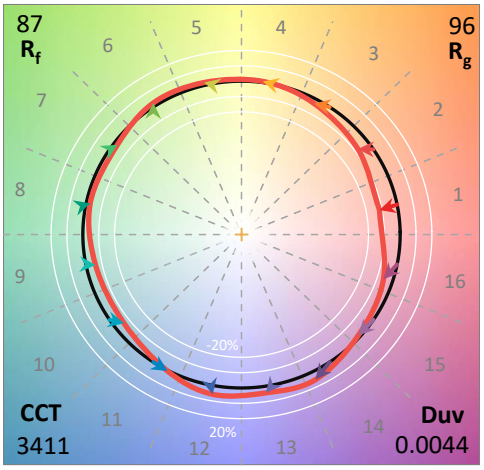
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
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-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

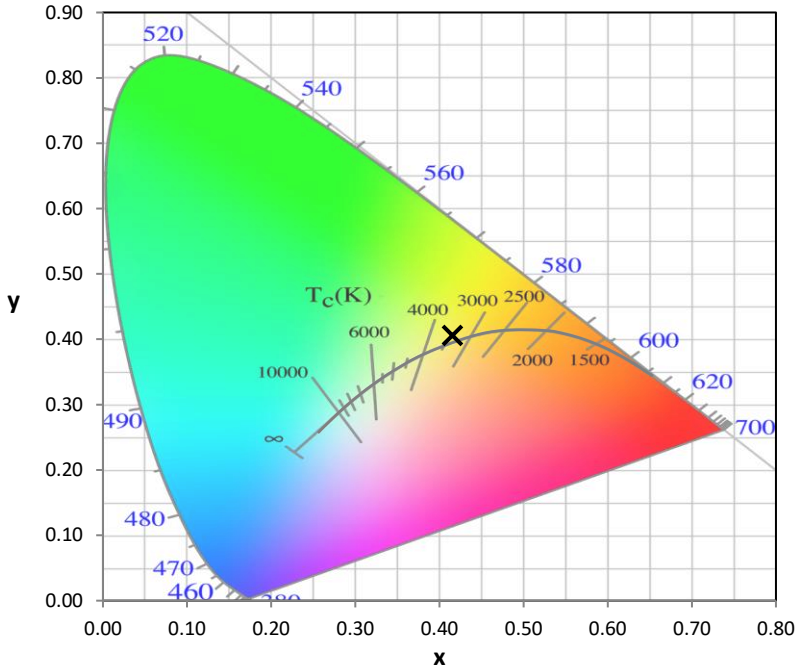
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

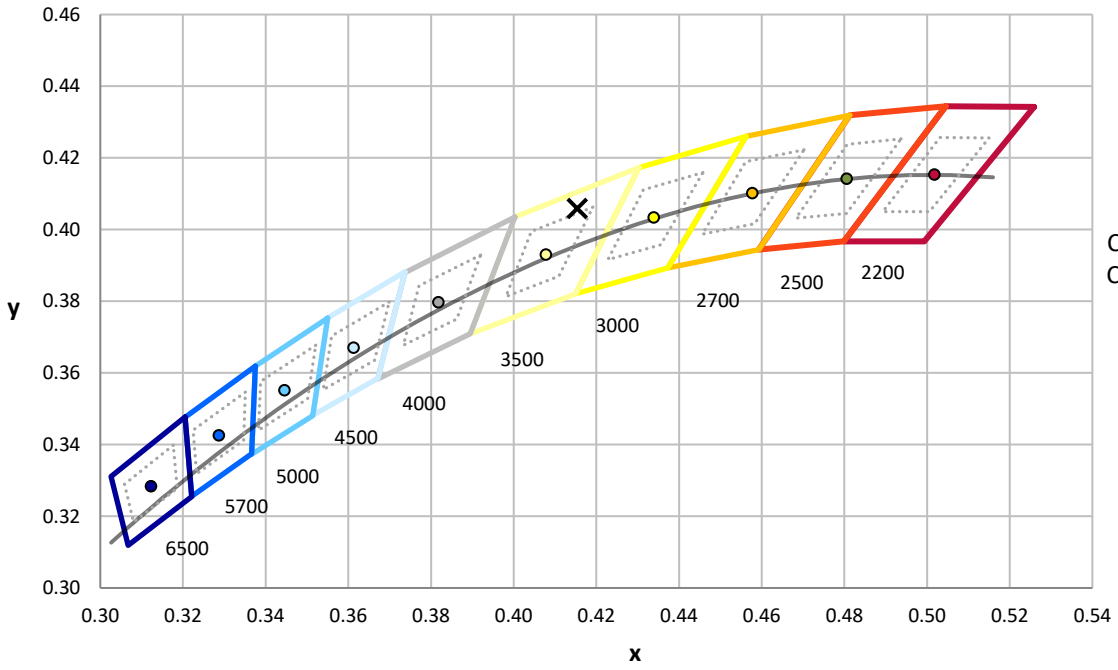
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

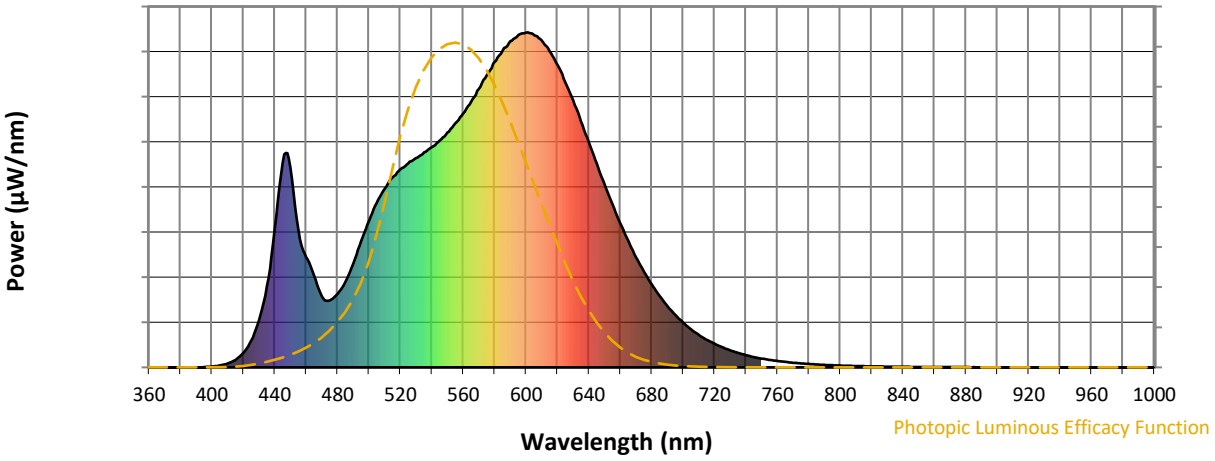


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

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Photopic Flux vs. Wavelength

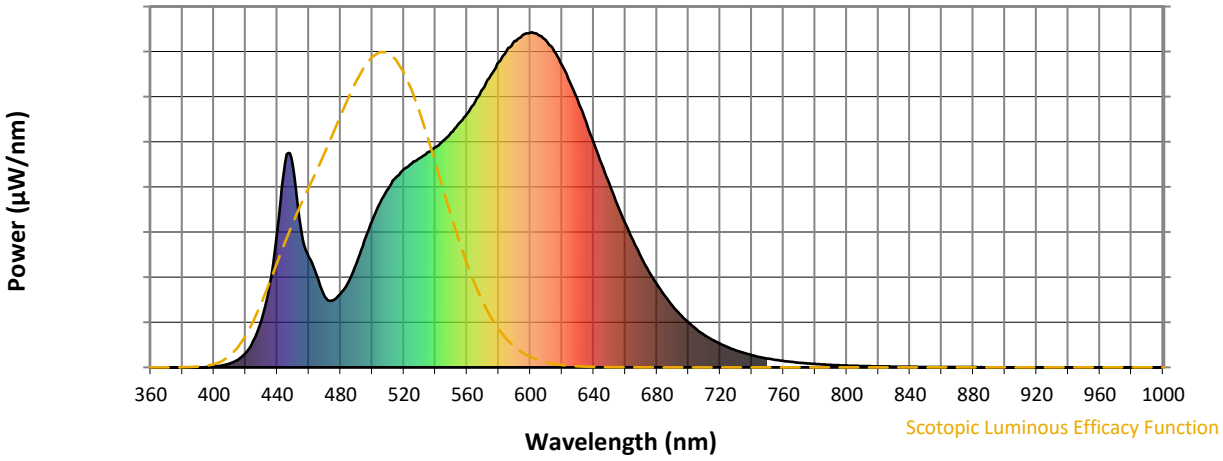


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength

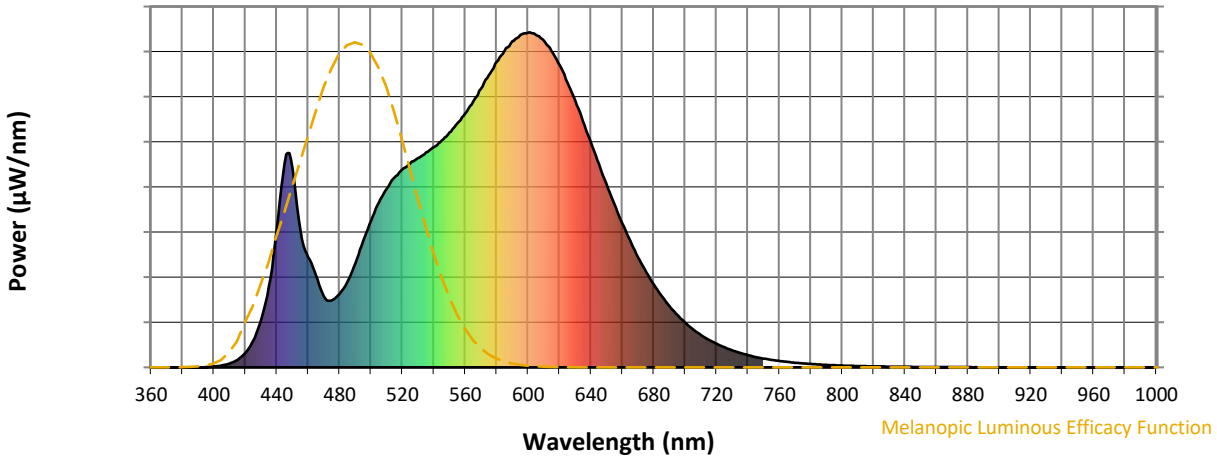


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

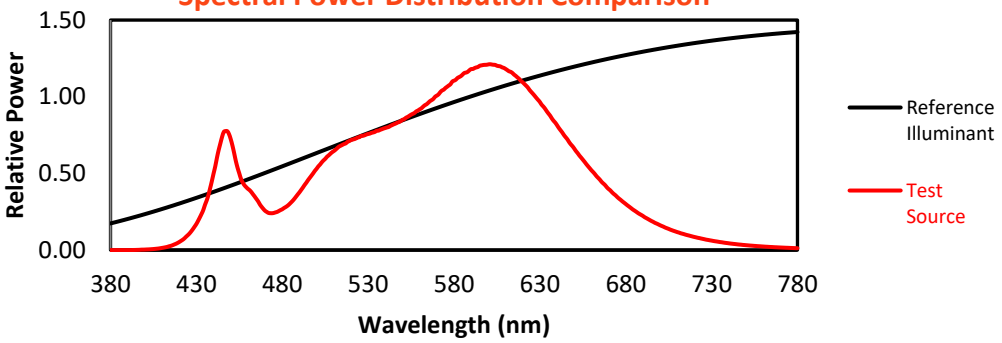
REPORT NUMBER: SP1-2407-184-10

TM-30-18

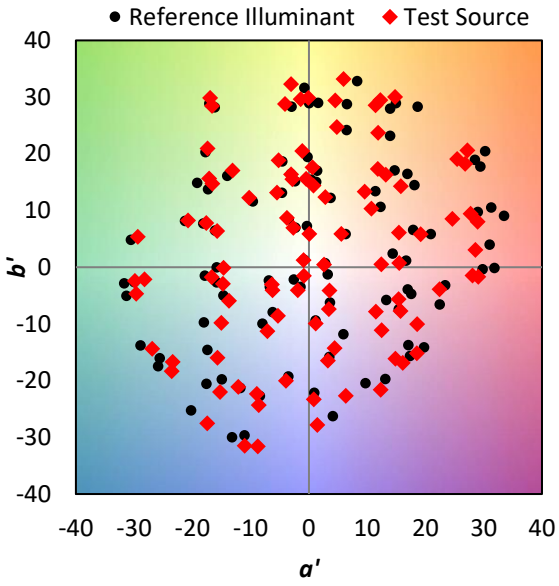
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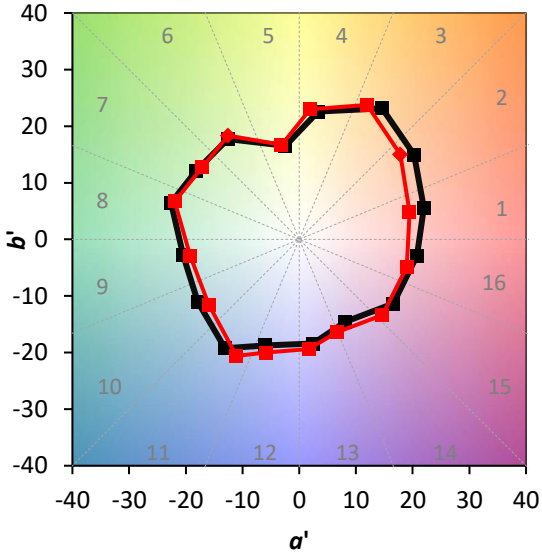
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

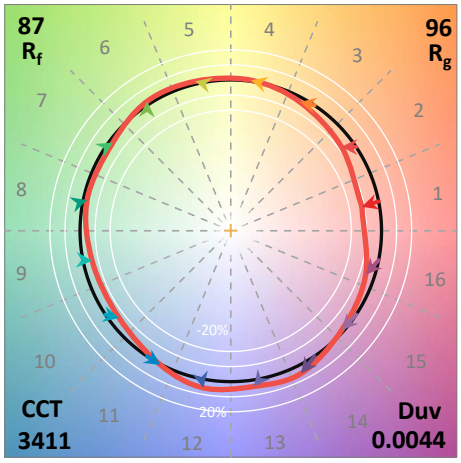
Spectral Power Distribution Comparison

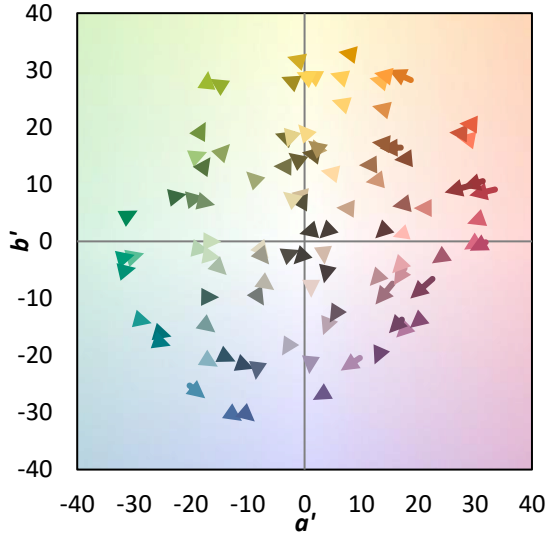


Color Vector Graphics







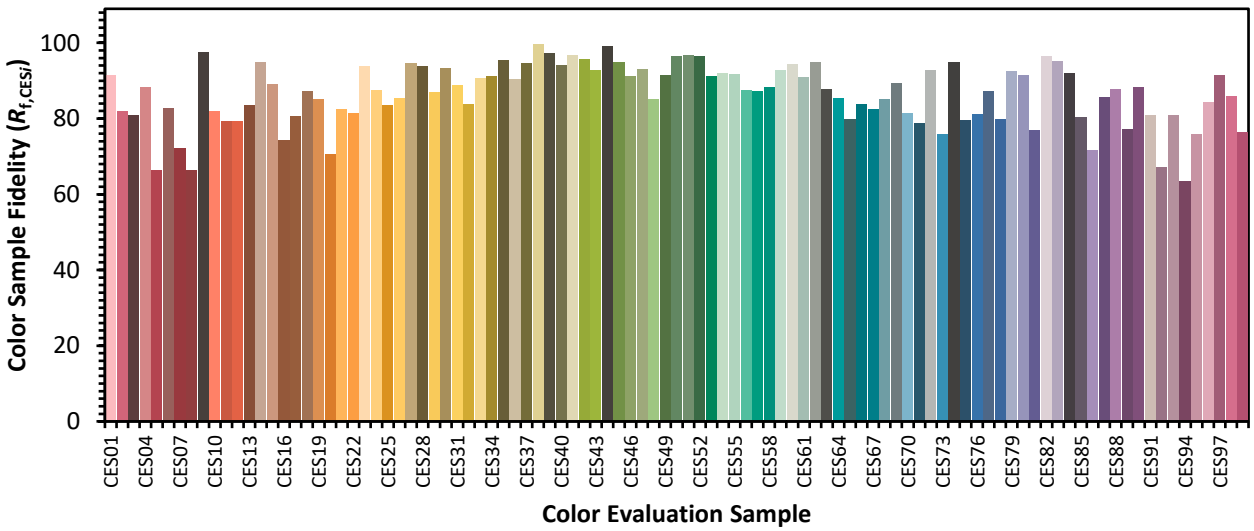


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Individual Sample Fidelity Index ($R_{f,i}$)

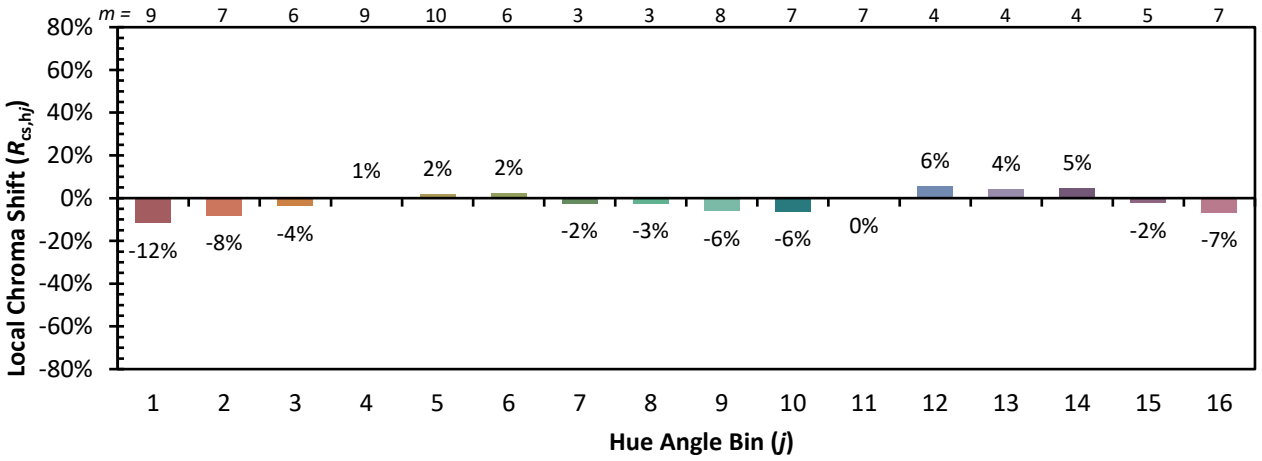
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	

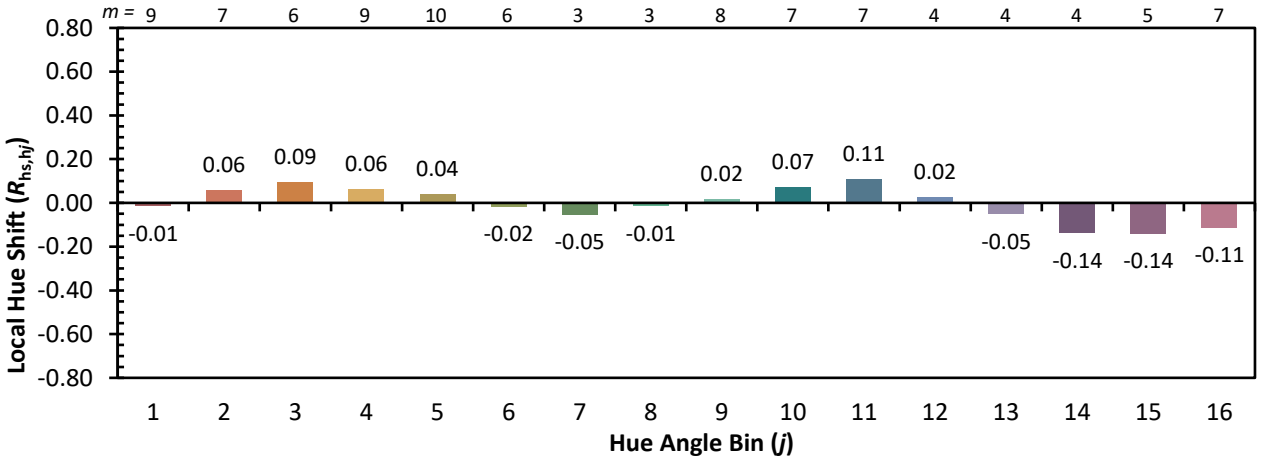


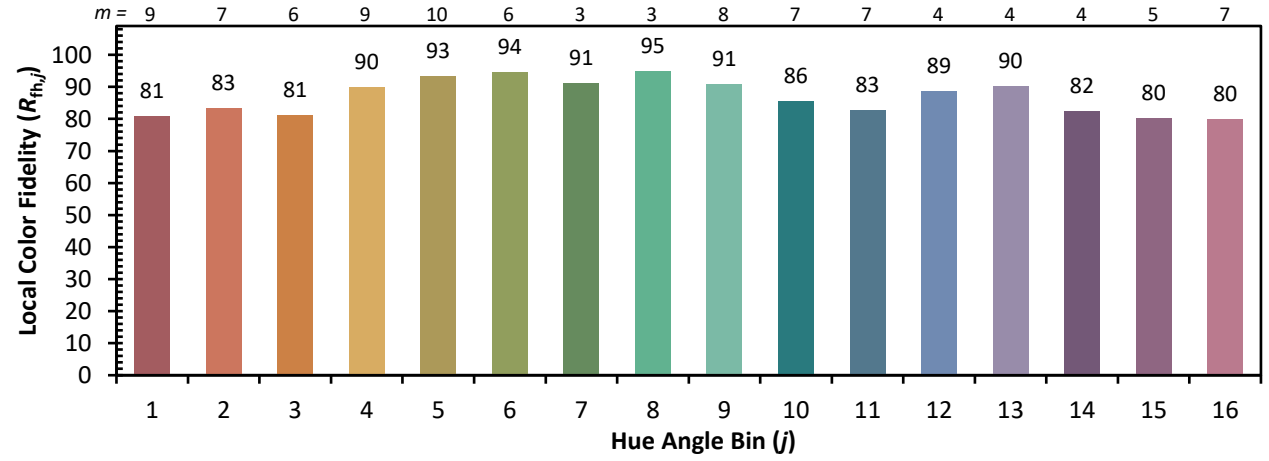
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Color Rendition by Hue-Angle Bin



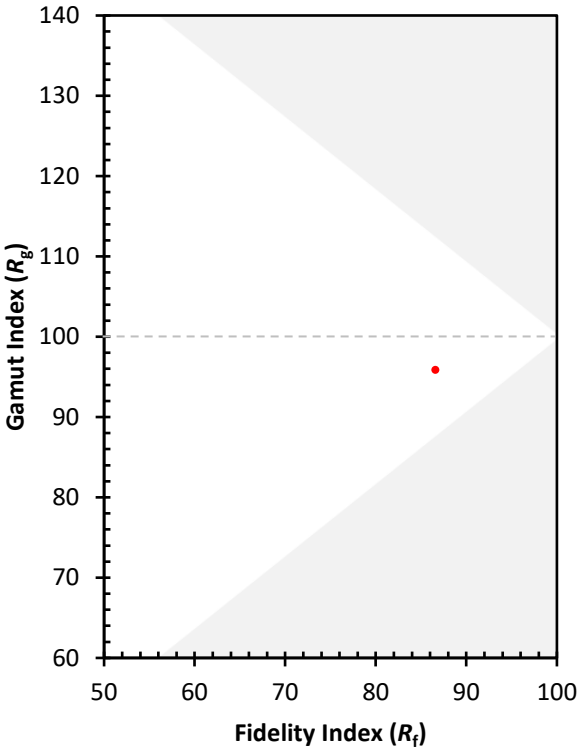


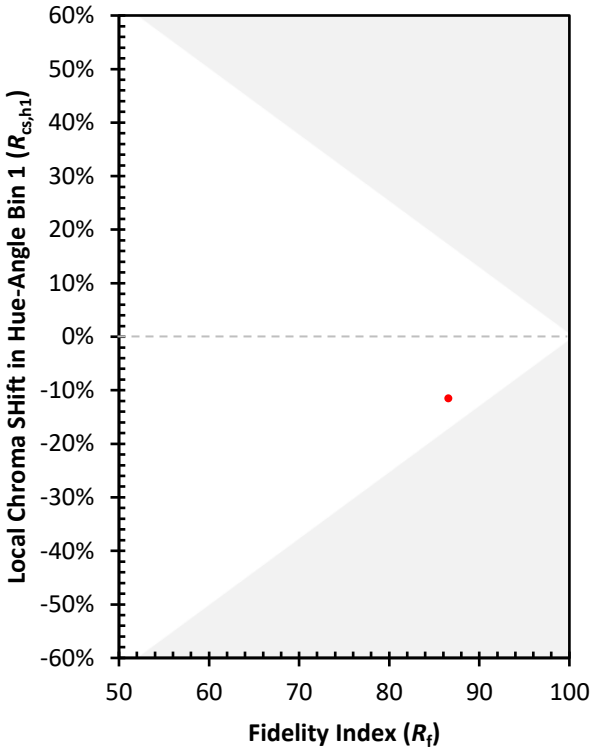


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Measure Comparisons





(END OF REPORT)