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: P1501501

Luminaire Tested: GSS-SB3A-827-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501501
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10856.6 lumens
Efficiency:	N/A
Efficacy:	127.7 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

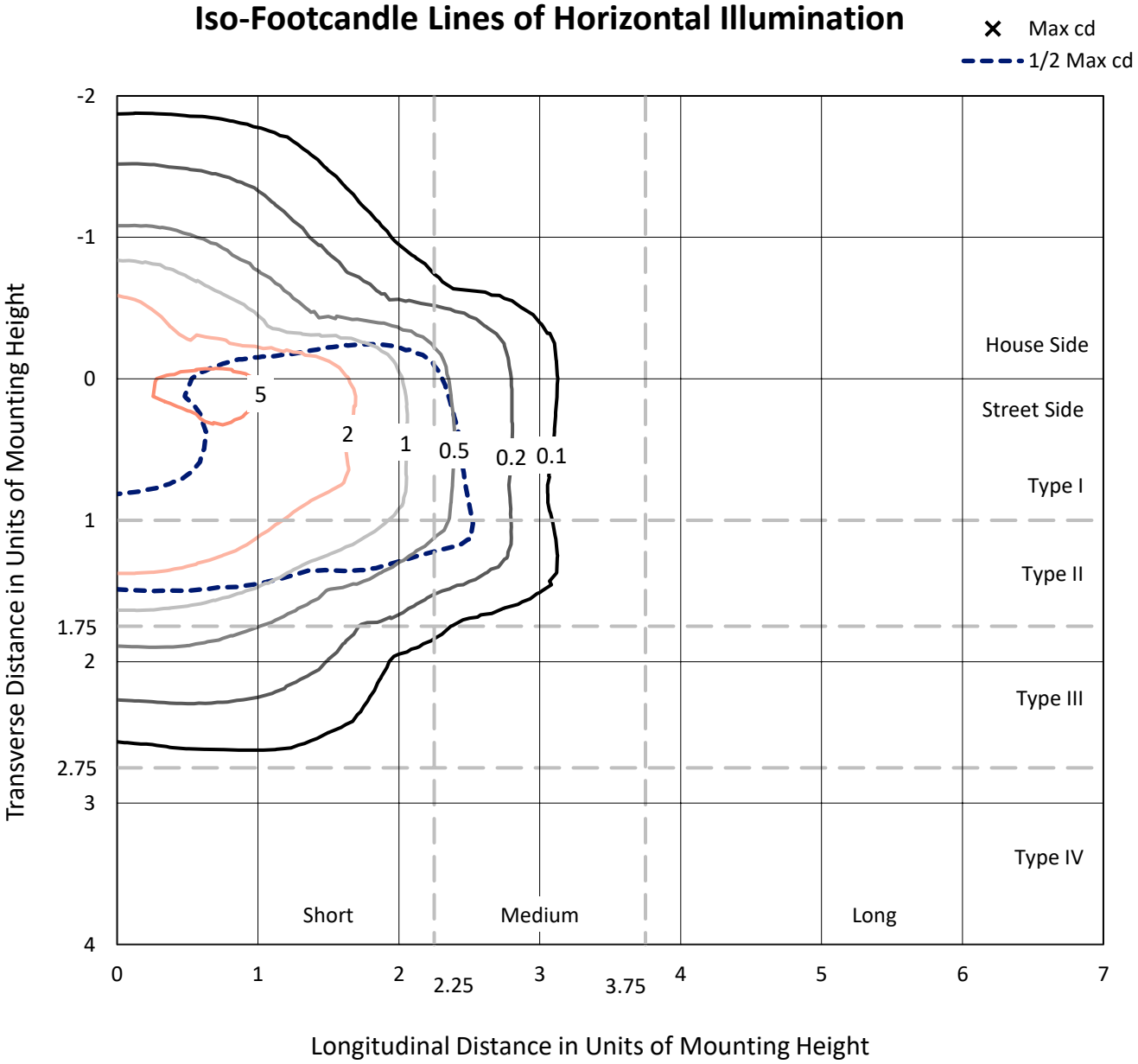
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



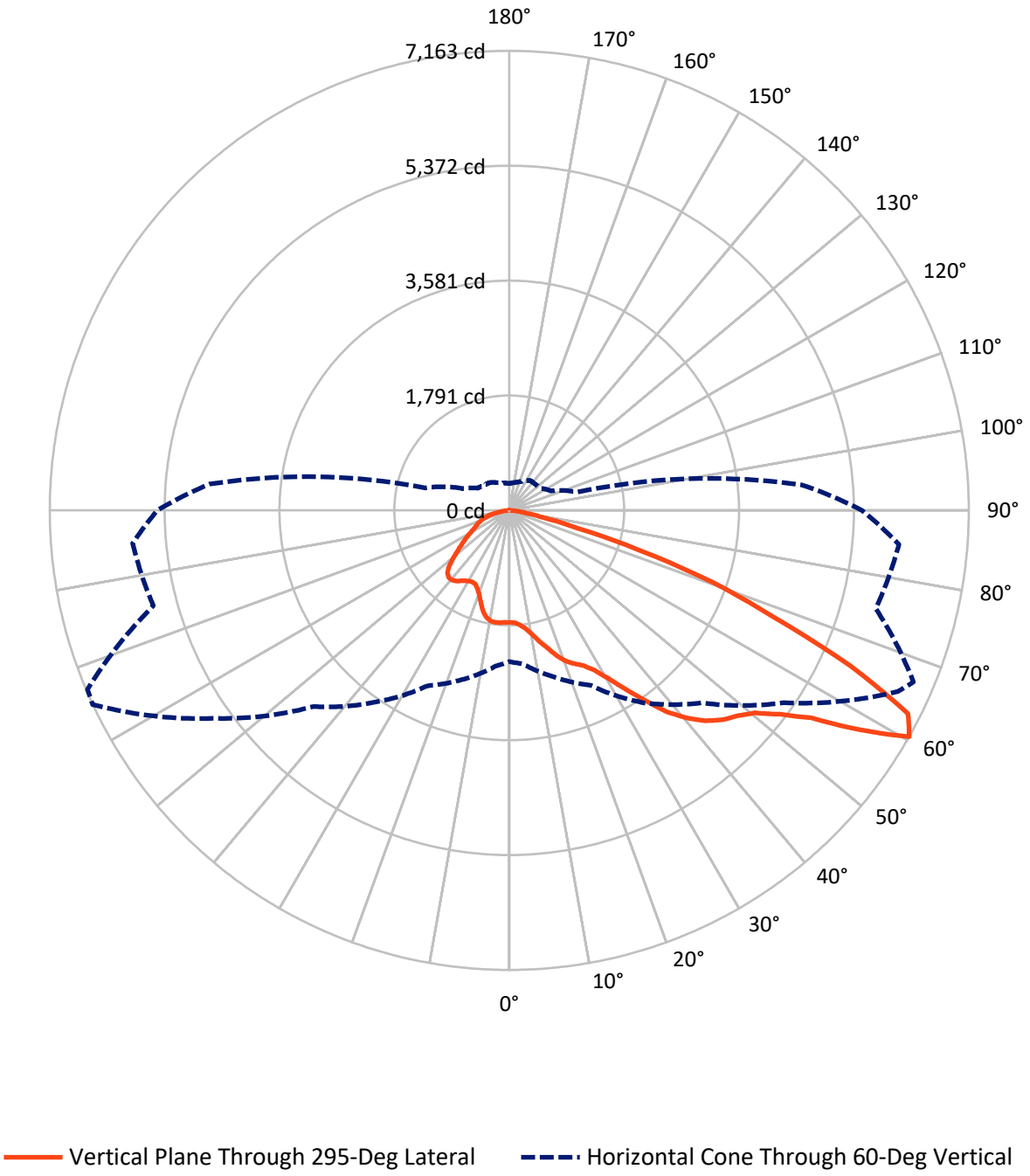
Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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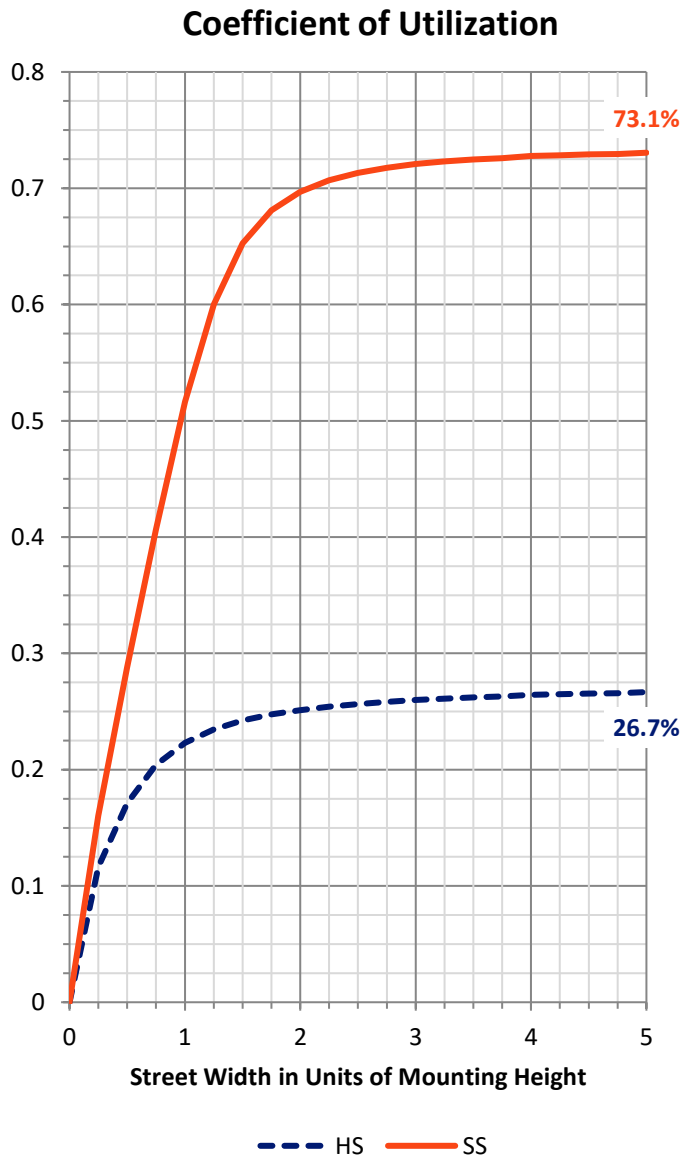
REPORT NUMBER: P1501501
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2919.5	0.0	2919.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7937.1	0.0	7937.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	10856.6	0.0	10856.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.5
10°-20°	472.1	4.3
20°-30°	894.3	8.2
30°-40°	1576.6	14.5
40°-50°	2331.6	21.5
50°-60°	2738.0	25.2
60°-70°	1983.8	18.3
70°-80°	611.8	5.6
80°-90°	84.2	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°	10856.6	100.0
0°-180°	10856.6	100.0



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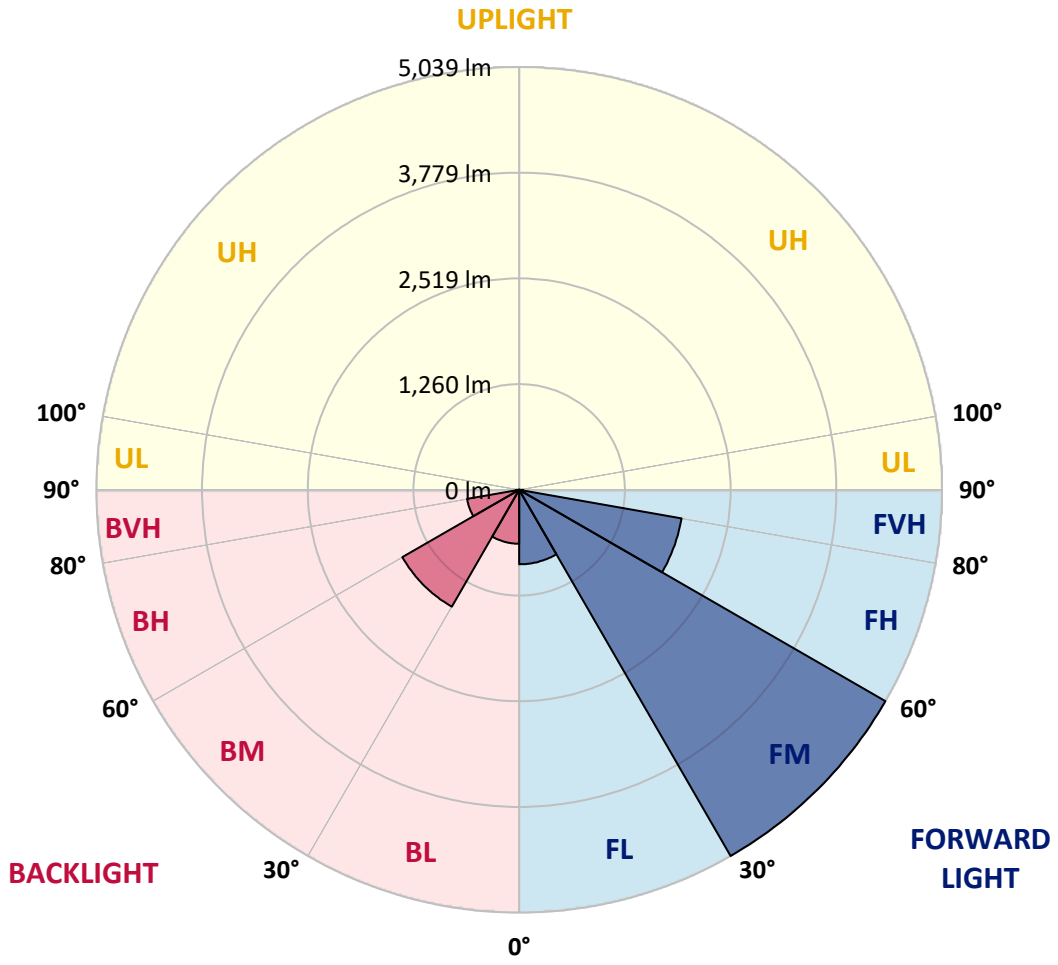
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	887.7	8.2			
FM	(30°-60°)	5038.6	46.4			
FH	(60°-80°)	1965.4	18.1			G2/5000
FVH	(80°-90°)	45.4	0.4			G1/100
BL	(0°-30°)	643.0	5.9	B2/1000		
BM	(30°-60°)	1607.6	14.8	B2/2500		
BH	(60°-80°)	630.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	38.8	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°	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8
2.5°	1781.4	1786.4	1778.9	1783.9	1783.9	1776.5	1774.0	1764.1	1769.0	1766.6	1764.1
5°	1823.5	1826.0	1821.0	1828.4	1828.4	1830.9	1828.4	1816.1	1816.1	1816.1	1811.1
7.5°	1811.1	1811.1	1813.6	1838.3	1863.1	1895.2	1895.2	1890.3	1895.2	1892.8	1870.5
10°	1707.2	1717.1	1739.4	1801.2	1860.6	1929.9	1976.9	1991.7	1991.7	1994.2	1957.1
12.5°	1521.6	1529.0	1581.0	1675.0	1798.7	1924.9	2038.7	2113.0	2120.4	2132.8	2083.3
15°	1355.9	1360.8	1397.9	1494.4	1635.4	1858.1	2073.4	2226.8	2251.5	2303.5	2229.2
17.5°	1370.7	1368.2	1378.1	1415.2	1516.7	1749.3	2065.9	2360.4	2404.9	2496.5	2432.1
20°	1459.8	1459.8	1467.2	1474.6	1511.7	1670.1	2011.5	2469.2	2555.8	2734.0	2659.8
22.5°	1600.8	1600.8	1598.3	1610.7	1610.7	1704.7	2014.0	2550.9	2679.5	2998.7	2927.0
25°	1796.3	1786.4	1786.4	1791.3	1769.0	1835.8	2075.8	2635.0	2803.3	3312.9	3251.1
27.5°	2016.5	2023.9	2018.9	2001.6	1971.9	2023.9	2224.3	2766.1	2941.8	3644.5	3619.7
30°	2256.5	2258.9	2263.9	2254.0	2229.2	2266.4	2456.9	2964.1	3124.9	3990.9	4045.3
32.5°	2491.5	2526.1	2513.8	2489.0	2498.9	2565.7	2743.9	3231.3	3397.1	4312.5	4505.5
35°	2790.9	2803.3	2852.7	2761.2	2763.7	2877.5	3110.1	3582.6	3743.4	4646.5	4965.7
37.5°	3226.3	3248.6	3226.3	3082.8	3060.6	3218.9	3466.3	3929.0	4045.3	4898.9	5393.7
40°	3654.4	3681.6	3718.7	3550.5	3409.4	3540.6	3802.8	4193.7	4315.0	5037.4	5678.3
42.5°	4008.2	4052.7	4013.1	3963.6	3835.0	3859.7	4037.9	4399.1	4520.3	5213.1	5965.3
45°	4307.6	4315.0	4332.3	4297.7	4233.3	4211.1	4238.3	4579.7	4713.3	5292.3	6106.3
47.5°	4431.3	4463.4	4478.3	4537.7	4604.5	4559.9	4409.0	4663.8	4785.1	5287.3	6150.8
50°	4364.5	4396.6	4475.8	4616.8	4777.7	4856.8	4609.4	4780.1	4916.2	5376.4	6242.4
52.5°	4188.8	4223.4	4352.1	4512.9	4782.6	4963.2	4891.5	5022.6	5153.7	5534.8	6395.8
55°	3763.2	3815.2	3995.8	4263.0	4634.2	4906.3	5188.4	5378.9	5522.4	5725.3	6554.1
57.5°	3144.7	3199.1	3402.0	3802.8	4359.5	4671.3	5275.0	6046.9	6111.2	5952.9	6569.0
60°	*2355.4*	*2400.0*	*2687.0*	*3008.6*	*3661.8*	*4240.8*	*5225.5*	*6680.3*	*6843.6*	*5913.3*	*6096.4*
62.5°	1865.5	1920.0	2174.8	2323.3	2790.9	3503.5	5052.3	6856.0	6997.0	5586.7	5438.3
65°	1457.3	1494.4	1731.9	1944.7	2058.5	2392.5	4329.8	5997.4	6123.6	5054.8	4488.2
67.5°	962.5	1019.4	1301.4	1593.4	1652.8	1521.6	2978.9	4614.4	4673.7	4018.1	3374.8
70°	690.3	717.5	927.8	1239.6	1328.6	1019.4	1623.1	3493.6	3510.9	2696.9	2273.8
72.5°	470.1	475.0	630.9	950.1	1059.0	739.8	893.2	2301.0	2241.6	1331.1	1301.4
75°	319.2	324.1	403.3	633.4	749.7	514.6	581.4	1254.4	1204.9	734.8	789.3
77.5°	215.3	220.2	277.1	425.6	499.8	356.3	425.6	663.1	650.7	487.4	423.1
80°	163.3	170.7	205.4	272.2	348.9	207.8	242.5	314.2	319.2	259.8	215.3
82.5°	91.5	101.4	123.7	138.6	225.2	116.3	116.3	188.0	180.6	160.8	116.3
85°	39.6	42.1	49.5	52.0	91.5	49.5	42.1	81.6	84.1	79.2	37.1
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.9	9.9	9.9	9.9
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°	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8
2.5°	1751.7	1766.6	1751.7	1744.3	1744.3	1731.9	1727.0	1727.0	1709.7	1717.1	1712.1
5°	1791.3	1796.3	1778.9	1756.7	1727.0	1702.2	1667.6	1623.1	1595.9	1593.4	1595.9
7.5°	1853.2	1855.6	1808.6	1759.1	1684.9	1595.9	1489.5	1402.9	1326.2	1313.8	1328.6
10°	1939.8	1934.8	1865.5	1749.3	1593.4	1405.3	1242.0	1162.9	1118.3	1115.9	1113.4
12.5°	2056.1	2023.9	1917.5	1707.2	1435.0	1217.3	1133.2	1128.2	1140.6	1150.5	1153.0
15°	2189.7	2147.6	1959.6	1625.5	1274.2	1148.0	1153.0	1195.0	1209.9	1219.8	1219.8
17.5°	2355.4	2301.0	2006.6	1509.3	1192.6	1162.9	1197.5	1237.1	1261.8	1271.7	1269.3
20°	2575.6	2461.8	2043.7	1397.9	1170.3	1187.6	1217.3	1256.9	1281.6	1294.0	1294.0
22.5°	2795.8	2654.8	2051.1	1321.2	1170.3	1190.1	1217.3	1256.9	1284.1	1296.5	1294.0
25°	3095.2	2902.2	2053.6	1266.8	1172.8	1177.7	1202.5	1237.1	1276.7	1289.1	1294.0
27.5°	3414.4	3174.4	2065.9	1254.4	1162.9	1160.4	1177.7	1209.9	1249.5	1281.6	1284.1
30°	3810.2	3481.2	2070.9	1266.8	1165.3	1133.2	1145.5	1177.7	1219.8	1251.9	1261.8
32.5°	4198.7	3765.7	2061.0	1294.0	1170.3	1115.9	1118.3	1138.1	1182.7	1204.9	1222.2
35°	4609.4	4067.6	2043.7	1331.1	1172.8	1108.4	1086.2	1096.1	1125.8	1128.2	1135.7
37.5°	4931.1	4292.7	1991.7	1380.6	1177.7	1081.2	1036.7	1029.3	1016.9	992.1	997.1
40°	5195.8	4443.6	1905.1	1405.3	1165.3	1049.1	974.8	940.2	893.2	856.1	863.5
42.5°	5386.3	4545.1	1801.2	1410.3	1145.5	994.6	903.1	843.7	791.7	752.2	754.6
45°	5470.4	4535.2	1689.9	1373.2	1098.5	927.8	836.3	779.4	722.5	680.4	675.5
47.5°	5472.9	4438.7	1536.5	1284.1	1019.4	851.1	774.4	712.6	665.6	635.9	633.4
50°	5492.7	4384.3	1393.0	1155.4	915.4	769.5	720.0	658.1	630.9	588.9	576.5
52.5°	5616.4	4473.3	1294.0	1014.4	819.0	710.1	673.0	618.5	574.0	546.8	544.3
55°	5816.8	4626.7	1239.6	908.0	727.4	653.2	628.4	581.4	541.8	514.6	507.2
57.5°	5841.6	4705.9	1175.2	809.1	653.2	608.7	598.8	546.8	489.9	470.1	462.7
60°	*5495.2*	*4572.3*	*1096.1*	*717.5*	*598.8*	*574.0*	*569.1*	*499.8*	*452.8*	*428.0*	*418.1*
62.5°	5022.6	4238.3	974.8	633.4	556.7	539.4	519.6	465.1	405.8	378.6	371.1
65°	4104.7	3562.8	828.9	576.5	514.6	494.8	489.9	415.7	376.1	361.2	358.8
67.5°	3110.1	2862.6	729.9	534.4	470.1	462.7	445.4	420.6	403.3	386.0	381.0
70°	2199.6	2065.9	621.0	480.0	425.6	413.2	484.9	457.7	395.9	373.6	371.1
72.5°	1333.6	1296.5	536.9	430.5	366.2	386.0	447.8	413.2	356.3	329.1	319.2
75°	841.2	769.5	450.3	366.2	292.0	314.2	390.9	368.7	306.8	279.6	272.2
77.5°	457.7	425.6	339.0	299.4	230.1	254.8	341.4	304.3	244.9	267.2	237.5
80°	200.4	222.7	225.2	173.2	153.4	188.0	244.9	237.5	188.0	190.5	158.3
82.5°	96.5	126.2	146.0	118.8	86.6	111.3	163.3	136.1	126.2	118.8	113.8
85°	29.7	47.0	64.3	56.9	39.6	47.0	76.7	74.2	89.1	76.7	71.8
87.5°	9.9	9.9	7.4	7.4	7.4	9.9	12.4	7.4	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°	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8
2.5°	1709.7	1712.1	1712.1	1714.6	1714.6	1722.0	1731.9	1741.8	1734.4	1744.3	1746.8
5°	1590.9	1603.3	1613.2	1650.3	1680.0	1704.7	1731.9	1756.7	1764.1	1769.0	1781.4
7.5°	1311.3	1346.0	1410.3	1494.4	1588.4	1680.0	1741.8	1806.2	1816.1	1828.4	1845.7
10°	1115.9	1130.7	1175.2	1261.8	1430.1	1610.7	1761.6	1863.1	1905.1	1929.9	1947.2
12.5°	1148.0	1138.1	1130.7	1143.1	1251.9	1484.5	1749.3	1944.7	2023.9	2051.1	2073.4
15°	1224.7	1214.8	1187.6	1153.0	1165.3	1350.9	1707.2	2021.4	2147.6	2192.1	2239.1
17.5°	1269.3	1259.4	1237.1	1200.0	1167.8	1239.6	1628.0	2090.7	2343.1	2397.5	2464.3
20°	1294.0	1284.1	1261.8	1224.7	1187.6	1197.5	1526.6	2177.3	2565.7	2652.3	2751.3
22.5°	1298.9	1286.6	1261.8	1224.7	1202.5	1195.0	1430.1	2229.2	2805.7	2939.3	3053.1
25°	1296.5	1274.2	1242.0	1214.8	1202.5	1200.0	1363.3	2258.9	3065.5	3278.3	3407.0
27.5°	1279.2	1251.9	1219.8	1200.0	1195.0	1209.9	1333.6	2293.6	3369.8	3642.0	3847.4
30°	1259.4	1219.8	1180.2	1172.8	1185.1	1232.1	1358.3	2305.9	3689.0	4037.9	4248.2
32.5°	1207.4	1177.7	1138.1	1135.7	1165.3	1249.5	1415.2	2288.6	3971.1	4433.7	4698.5
35°	1133.2	1115.9	1093.6	1101.0	1148.0	1264.3	1454.8	2234.2	4228.4	4802.4	5111.7
37.5°	1002.0	1014.4	1026.8	1044.1	1103.5	1261.8	1472.1	2147.6	4441.2	5096.8	5492.7
40°	856.1	898.1	937.7	982.3	1061.4	1242.0	1477.1	2041.2	4564.9	5319.5	5831.7
42.5°	764.5	804.1	853.6	917.9	1004.5	1197.5	1472.1	1922.4	4604.5	5472.9	6046.9
45°	680.4	727.4	789.3	856.1	955.0	1133.2	1427.6	1793.8	4624.3	5544.7	6138.5
47.5°	635.9	663.1	720.0	786.8	890.7	1054.0	1341.0	1699.8	4594.6	5559.5	6249.8
50°	583.9	621.0	658.1	722.5	823.9	955.0	1237.1	1645.3	4644.1	5705.5	6425.5
52.5°	544.3	564.1	603.7	663.1	737.3	863.5	1138.1	1600.8	4780.1	5853.9	6608.6
55°	514.6	536.9	561.6	611.1	668.0	771.9	1036.7	1534.0	4938.5	6012.3	6791.6
57.5°	467.6	482.5	517.1	569.1	606.2	682.9	917.9	1454.8	4926.1	5888.6	6475.0
60°	*425.6*	*440.4*	*477.5*	*529.5*	*551.7*	*603.7*	*801.6*	*1353.4*	*4688.6*	*5485.3*	*5891.0*
62.5°	378.6	395.9	440.4	477.5	497.3	536.9	680.4	1167.8	4193.7	4879.1	5208.2
65°	358.8	368.7	398.3	442.9	440.4	477.5	574.0	917.9	3374.8	3728.6	4028.0
67.5°	381.0	395.9	390.9	403.3	395.9	415.7	514.6	737.3	2652.3	2808.2	2981.4
70°	376.1	410.7	428.0	403.3	346.4	368.7	445.4	588.9	1897.7	1882.9	1875.4
72.5°	329.1	363.7	413.2	437.9	339.0	306.8	386.0	509.7	1217.3	1212.4	1096.1
75°	279.6	304.3	363.7	395.9	292.0	247.4	331.5	433.0	727.4	737.3	658.1
77.5°	257.3	244.9	304.3	348.9	237.5	190.5	267.2	326.6	400.8	405.8	376.1
80°	185.6	178.1	227.6	254.8	180.6	136.1	150.9	202.9	215.3	193.0	200.4
82.5°	118.8	121.2	136.1	163.3	111.3	74.2	103.9	136.1	116.3	94.0	111.3
85°	76.7	86.6	71.8	84.1	34.6	34.6	44.5	59.4	39.6	27.2	29.7
87.5°	0.0	0.0	4.9	9.9	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: P1501501
CATALOG NUMBER: GSS-SB3A-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1746.8	1746.8	*1746.8*	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8	1746.8
2.5°	1754.2	1751.7	*1751.7*	1756.7	1769.0	1774.0	1781.4	1778.9	1786.4	1781.4
5°	1788.8	1791.3	*1798.7*	1801.2	1808.6	1818.5	1821.0	1818.5	1823.5	1823.5
7.5°	1858.1	1868.0	*1863.1*	1875.4	1865.5	1853.2	1833.4	1818.5	1806.2	1811.1
10°	1974.4	1969.5	*1967.0*	1944.7	1900.2	1835.8	1783.9	1727.0	1717.1	1707.2
12.5°	2103.1	2098.1	*2098.1*	2021.4	1895.2	1761.6	1642.9	1553.8	1524.1	1521.6
15°	2283.7	2251.5	*2221.8*	2061.0	1808.6	1581.0	1442.5	1373.2	1355.9	1355.9
17.5°	2508.8	2424.7	*2375.2*	2031.3	1667.6	1462.2	1380.6	1363.3	1358.3	1370.7
20°	2788.4	2575.6	*2503.9*	1964.5	1615.6	1477.1	1437.5	1440.0	1442.5	1459.8
22.5°	3095.2	2714.2	*2595.4*	1964.5	1667.6	1571.1	1551.3	1578.5	1586.0	1600.8
25°	3436.6	2837.9	*2677.1*	2068.4	1821.0	1749.3	1724.5	1751.7	1771.5	1796.3
27.5°	3820.1	2966.6	*2818.1*	2256.5	2018.9	1974.4	1947.2	1959.6	1986.8	2016.5
30°	4164.1	3181.8	*3033.4*	2543.5	2288.6	2234.2	2187.2	2207.0	2236.7	2256.5
32.5°	4468.4	3444.1	*3317.9*	2845.3	2597.9	2503.9	2451.9	2447.0	2506.4	2491.5
35°	4748.0	3753.3	*3632.1*	3189.2	2912.1	2795.8	2726.6	2815.6	2776.0	2790.9
37.5°	4968.2	4075.0	*3978.5*	3518.3	3238.7	3080.4	3038.3	3147.2	3209.0	3226.3
40°	5148.8	4354.6	*4253.1*	3844.9	3538.1	3421.8	3488.6	3669.2	3661.8	3654.4
42.5°	5287.3	4594.6	*4483.2*	4092.3	3825.1	3847.4	3899.3	4020.6	4050.2	4008.2
45°	5349.2	4745.5	*4656.4*	4287.8	4151.7	4280.3	4302.6	4354.6	4334.8	4307.6
47.5°	5420.9	4879.1	*4785.1*	4465.9	4505.5	4631.7	4587.1	4545.1	4473.3	4431.3
50°	5542.2	5037.4	*4958.3*	4725.7	4869.2	4827.1	4653.9	4559.9	4414.0	4364.5
52.5°	5772.3	5336.8	*5277.4*	5136.4	5039.9	4797.5	4587.1	4418.9	4255.6	4188.8
55°	5977.6	5742.6	*5708.0*	5519.9	4988.0	4641.6	4359.5	4099.7	3820.1	3763.2
57.5°	6096.4	6415.6	*6455.2*	5683.2	4750.4	4287.8	3872.1	3456.4	3191.7	3144.7
60°	*5742.6*	*7143.0*	*7162.8*	*5651.0*	*4322.4*	*3649.4*	*3016.0*	*2721.6*	*2437.1*	*2355.4*
62.5°	5255.2	6992.1	*6974.7*	5458.1	3441.6	2662.2	2291.1	2152.5	1932.3	1865.5
65°	4517.9	5824.2	*5844.0*	4715.8	2288.6	1924.9	1924.9	1749.3	1504.3	1457.3
67.5°	3681.6	4490.7	*4446.1*	3058.1	1405.3	1541.4	1615.6	1363.3	1019.4	962.5
70°	2392.5	3429.2	*3367.4*	1764.1	883.3	1284.1	1271.7	1024.3	729.9	690.3
72.5°	1029.3	1981.8	*2108.0*	900.6	665.6	1034.2	1014.4	717.5	487.4	470.1
75°	621.0	997.1	*1086.2*	574.0	484.9	779.4	702.7	455.3	331.5	319.2
77.5°	393.4	546.8	*541.8*	430.5	363.7	527.0	472.6	314.2	225.2	215.3
80°	227.6	269.7	*279.6*	269.7	244.9	376.1	301.9	227.6	175.7	163.3
82.5°	146.0	168.2	*170.7*	131.1	136.1	242.5	163.3	133.6	101.4	91.5
85°	64.3	71.8	*69.3*	44.5	44.5	99.0	56.9	54.4	39.6	39.6
87.5°	2.5	4.9	*2.5*	2.5	2.5	9.9	4.9	7.4	7.4	7.4
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

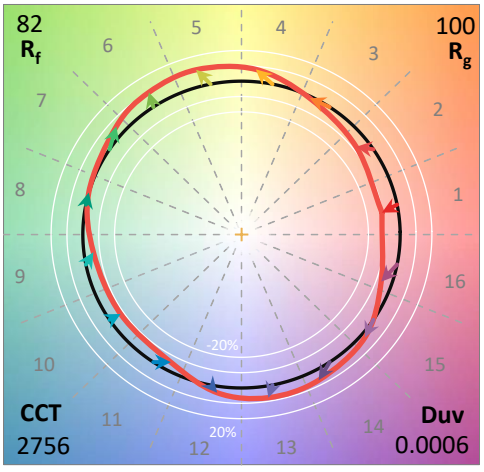
Test Information

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

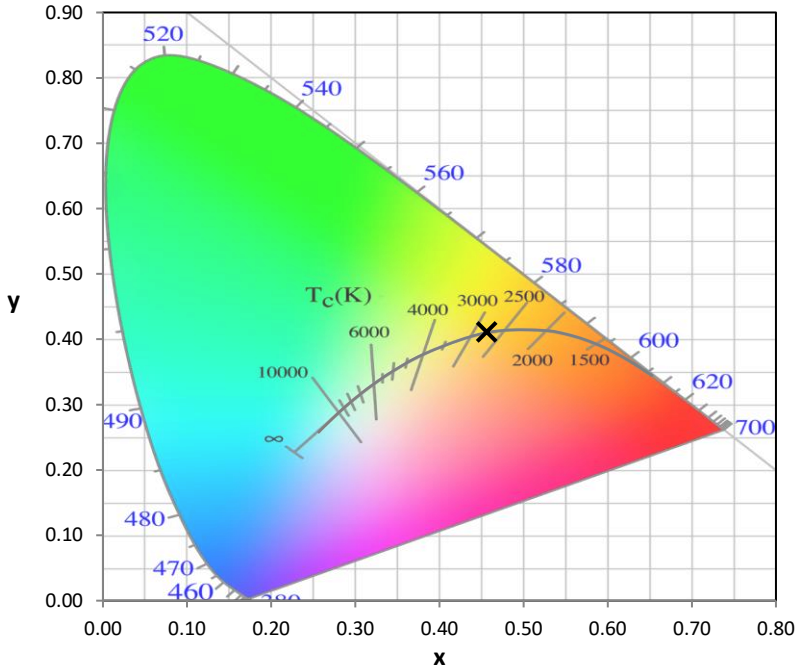
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

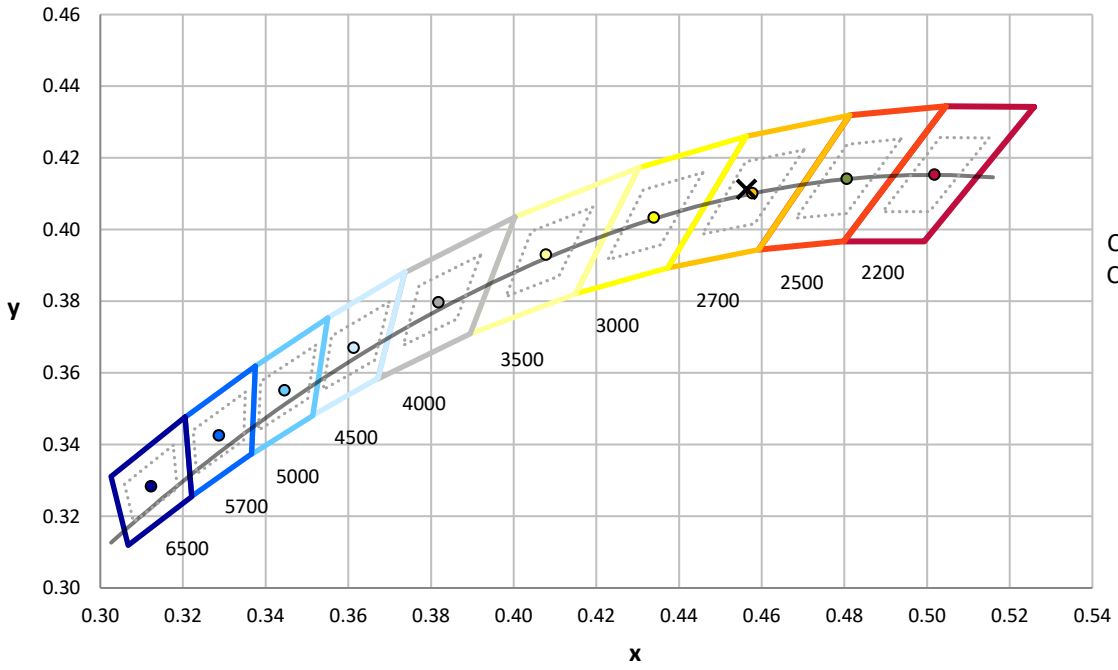
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

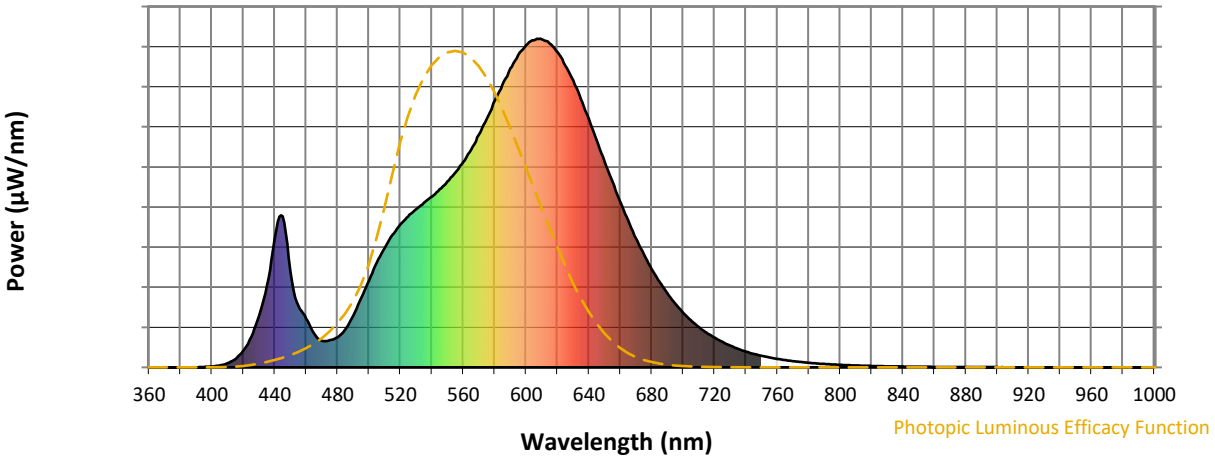


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

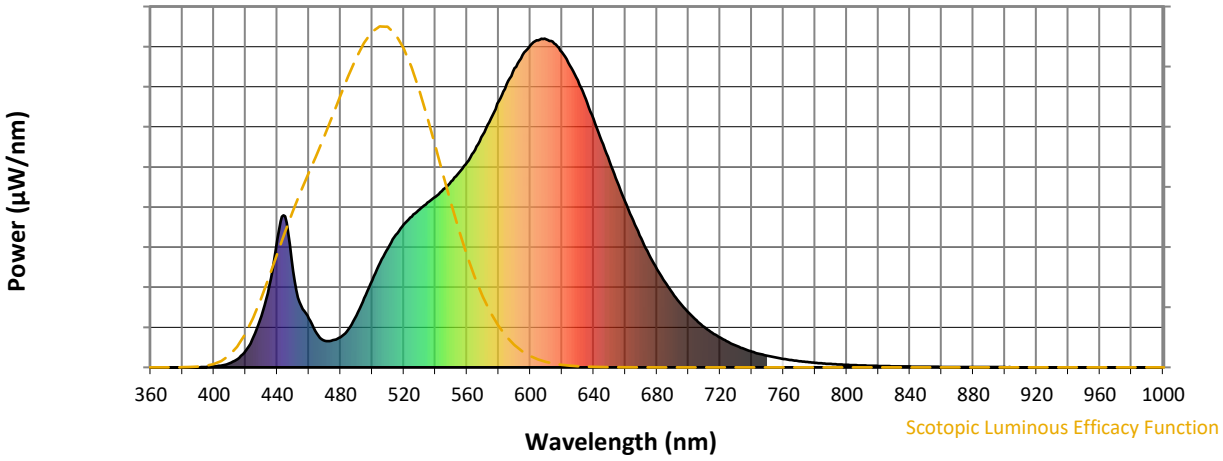


Photopic Lumens: NR

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

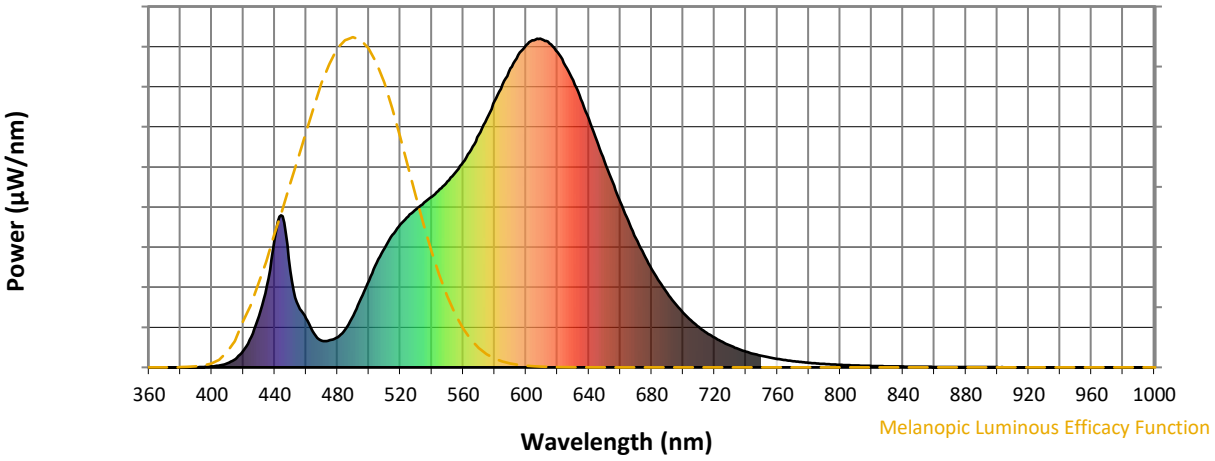


Scotopic Lumens: NR **S/P: 1.2**

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			

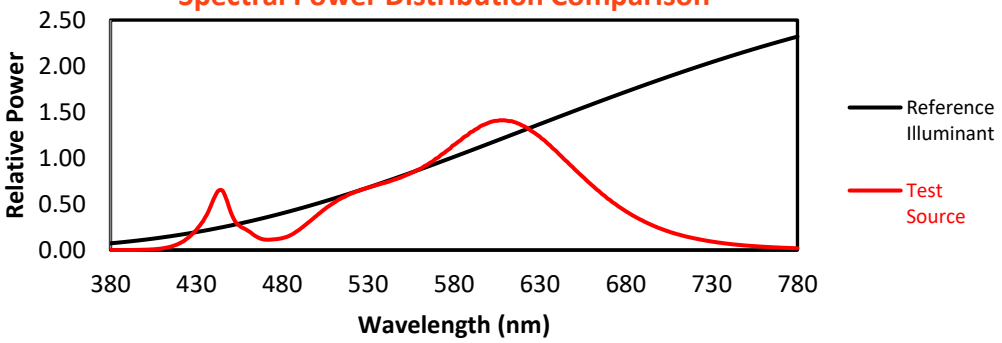
REPORT NUMBER: SP1-2407-184-8

TM-30-18

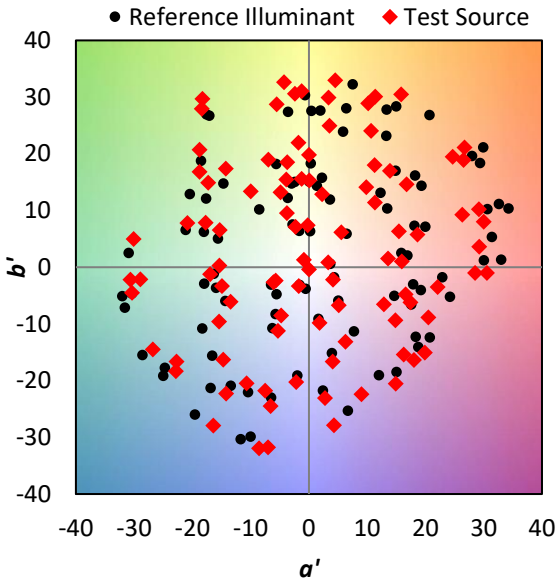
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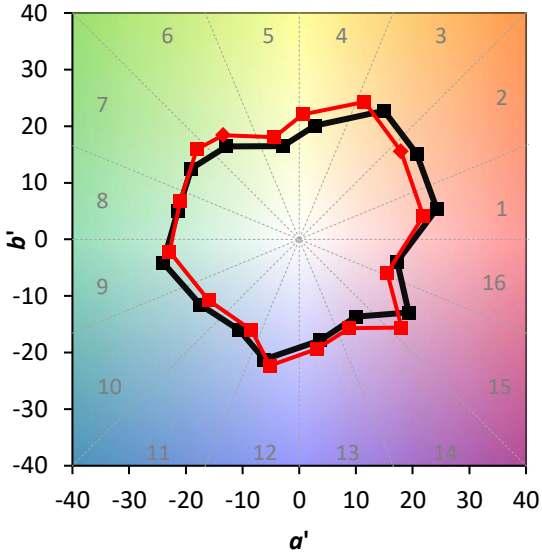
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

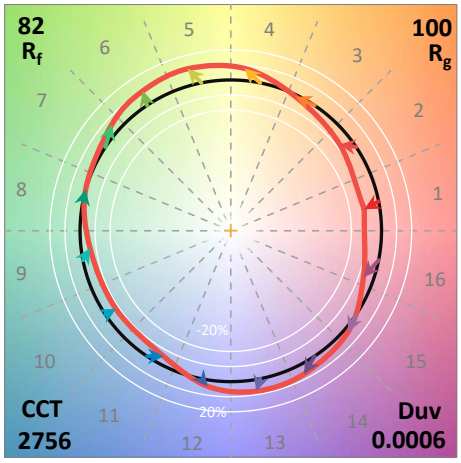
Spectral Power Distribution Comparison

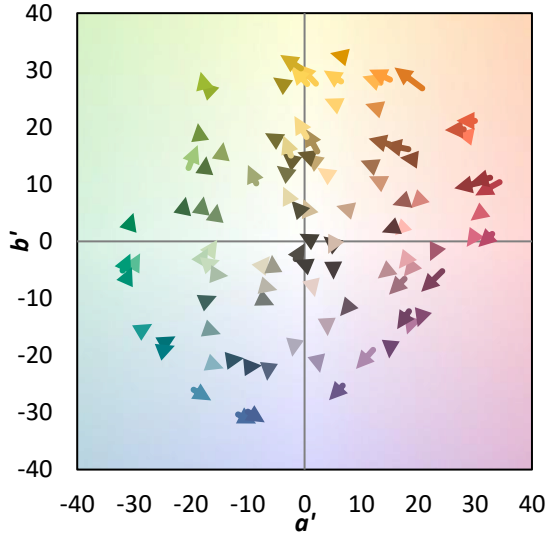


Color Vector Graphics







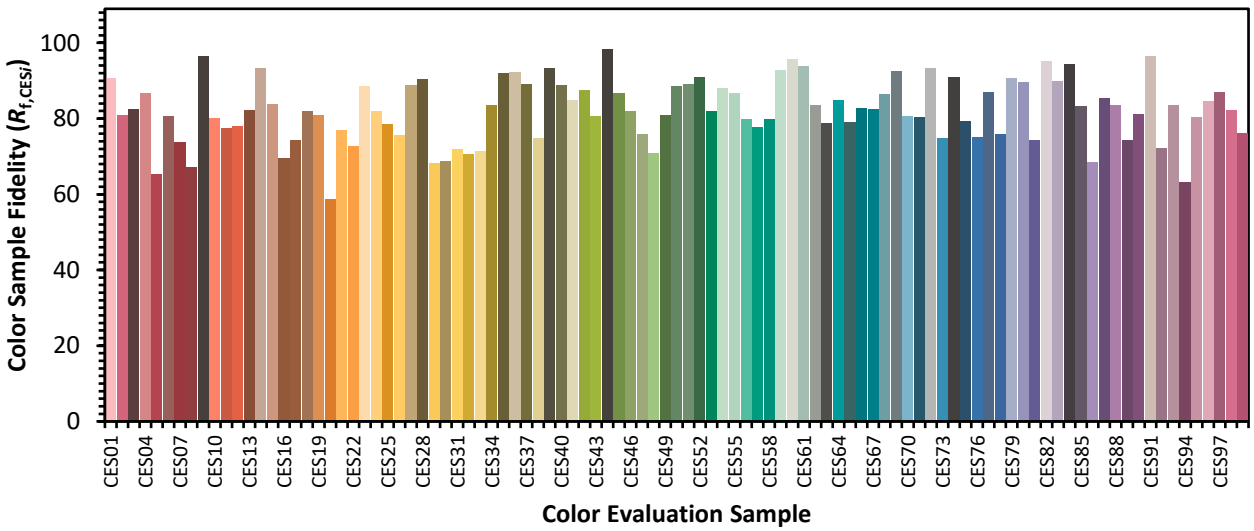


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Individual Sample Fidelity Index ($R_{f,i}$)

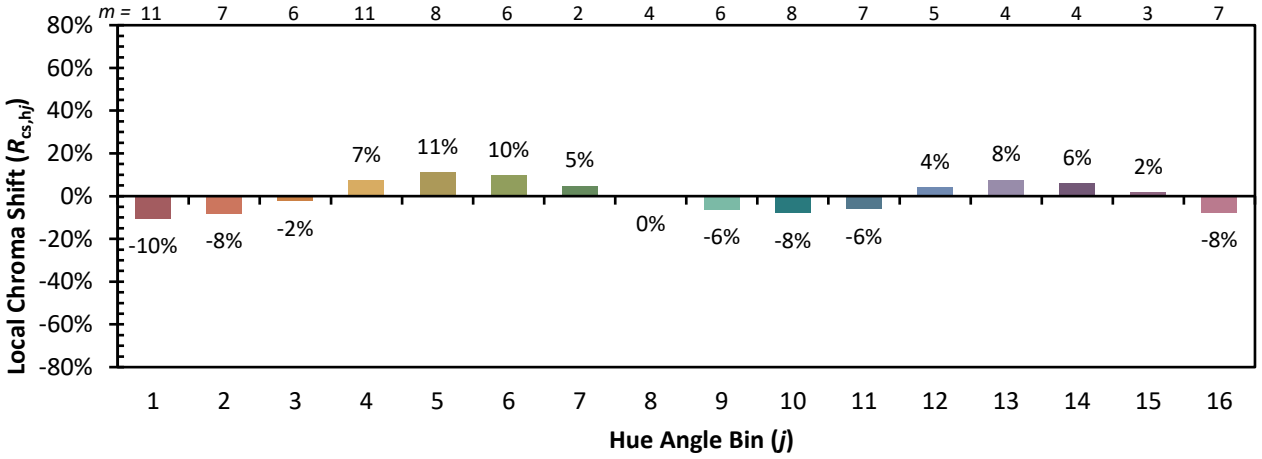
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 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	

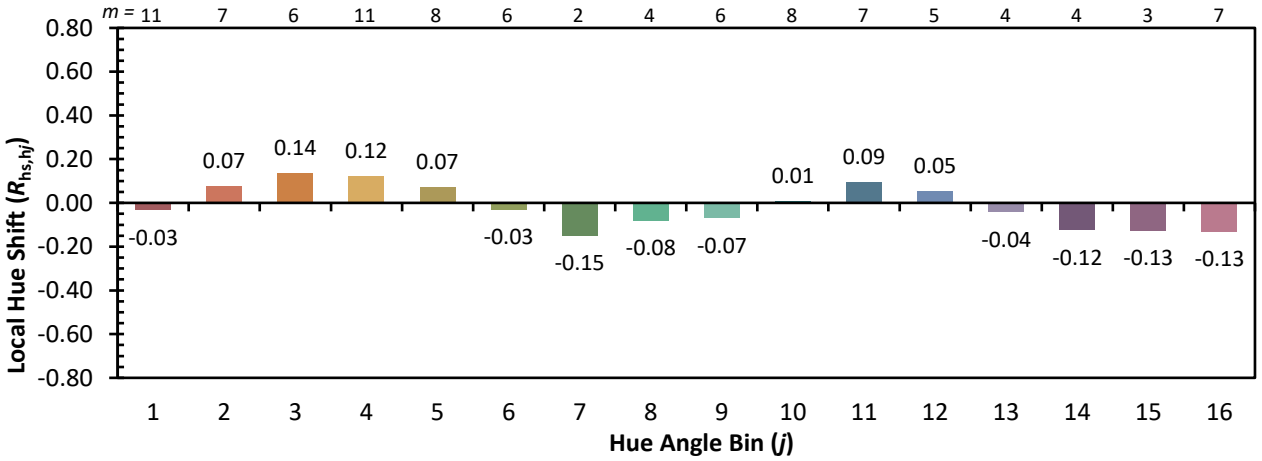


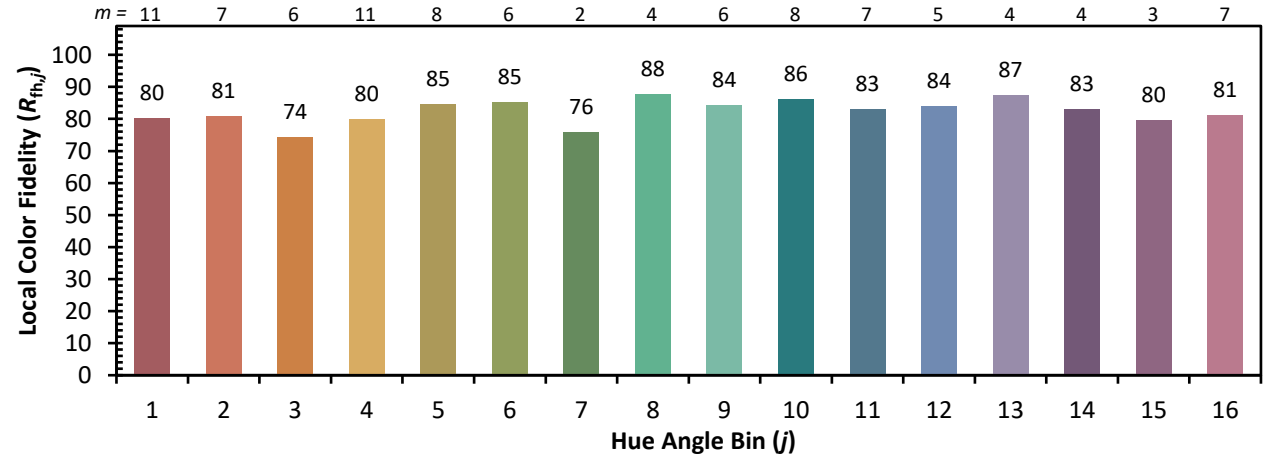
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Color Rendition by Hue-Angle Bin



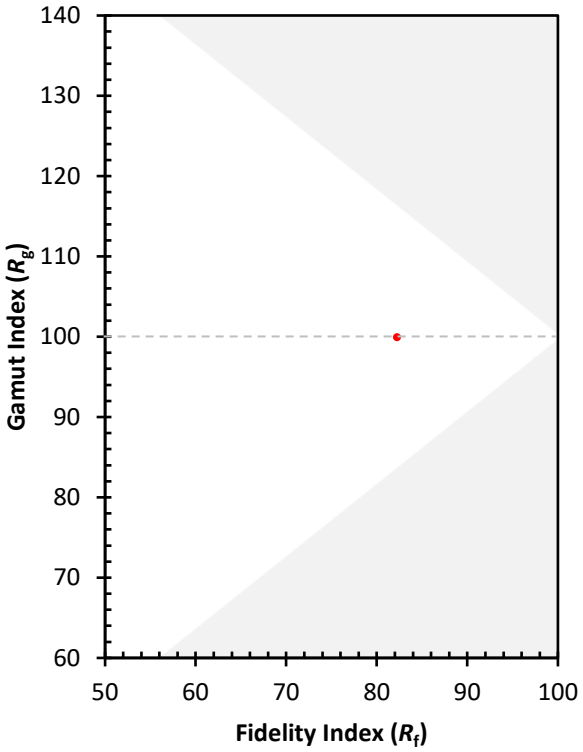


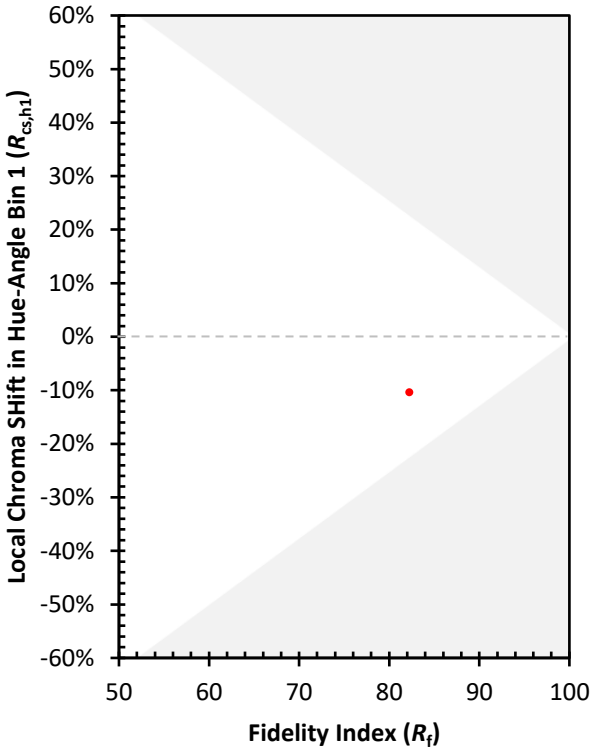


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Measure Comparisons





(END OF REPORT)