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: P1501402

Luminaire Tested: GSS-SB2B-730-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501402
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2B-730-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 70CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10438.3 lumens
Efficiency:	N/A
Efficacy:	141.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

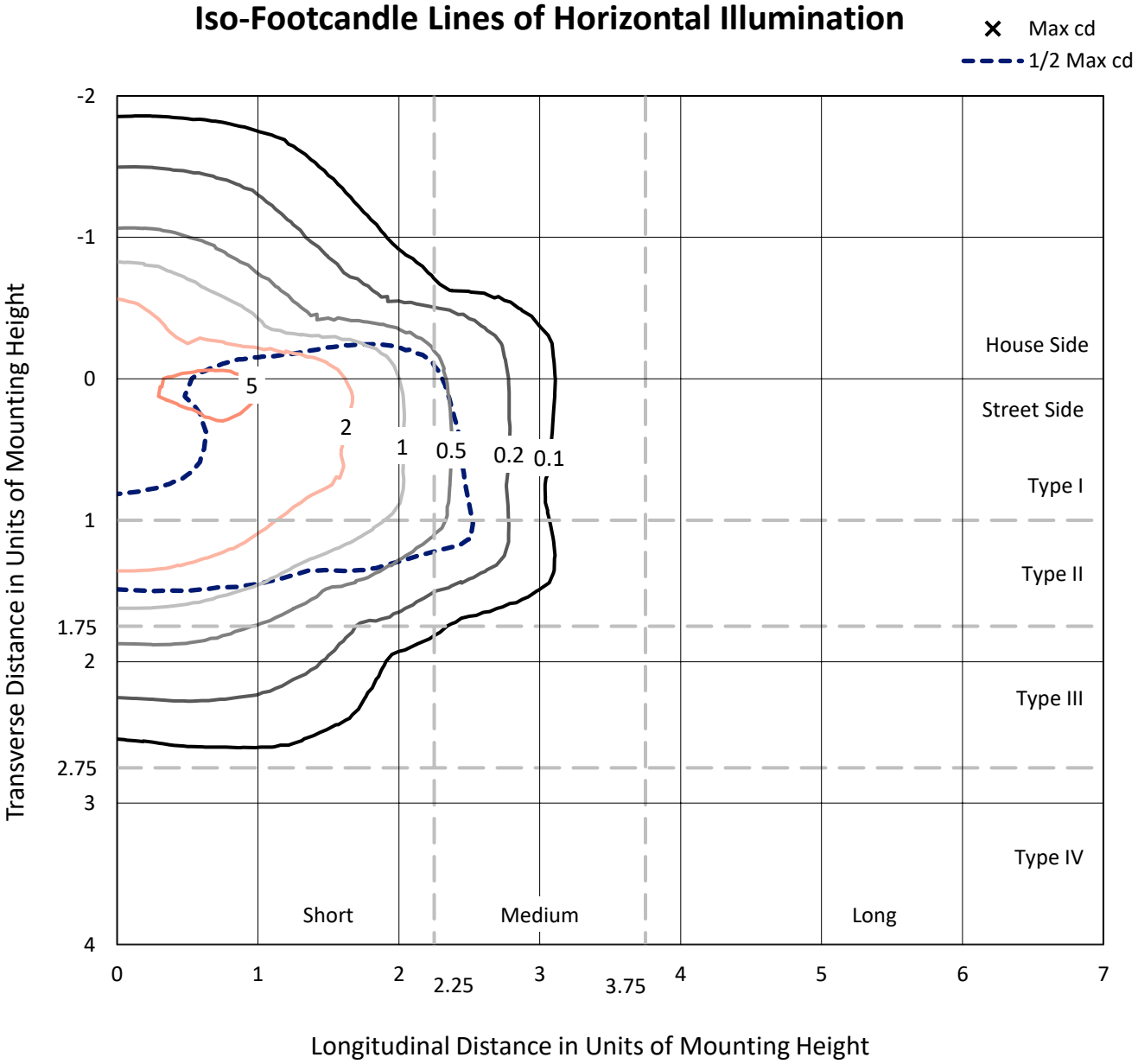
Input Watts (W):	74
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



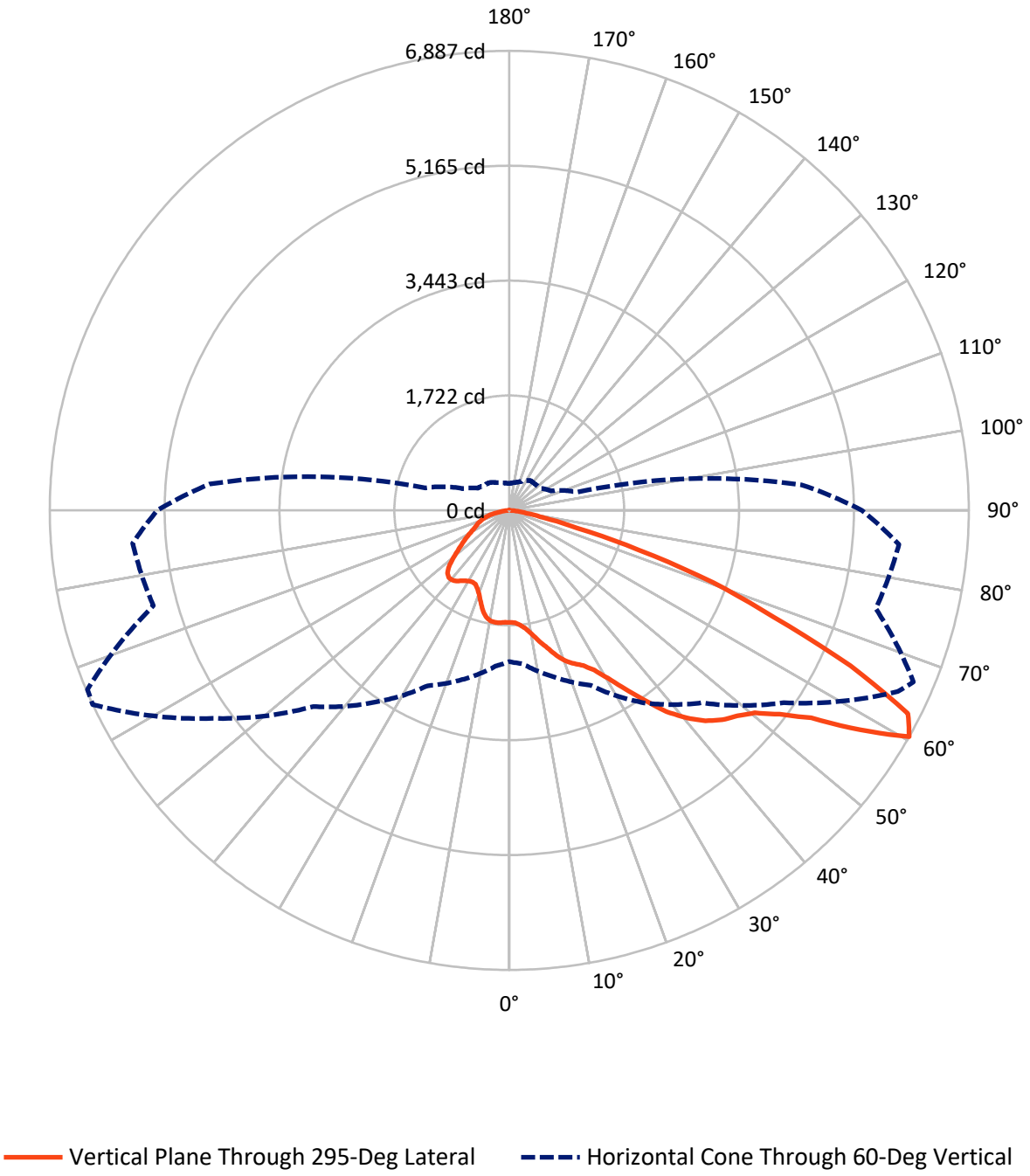
Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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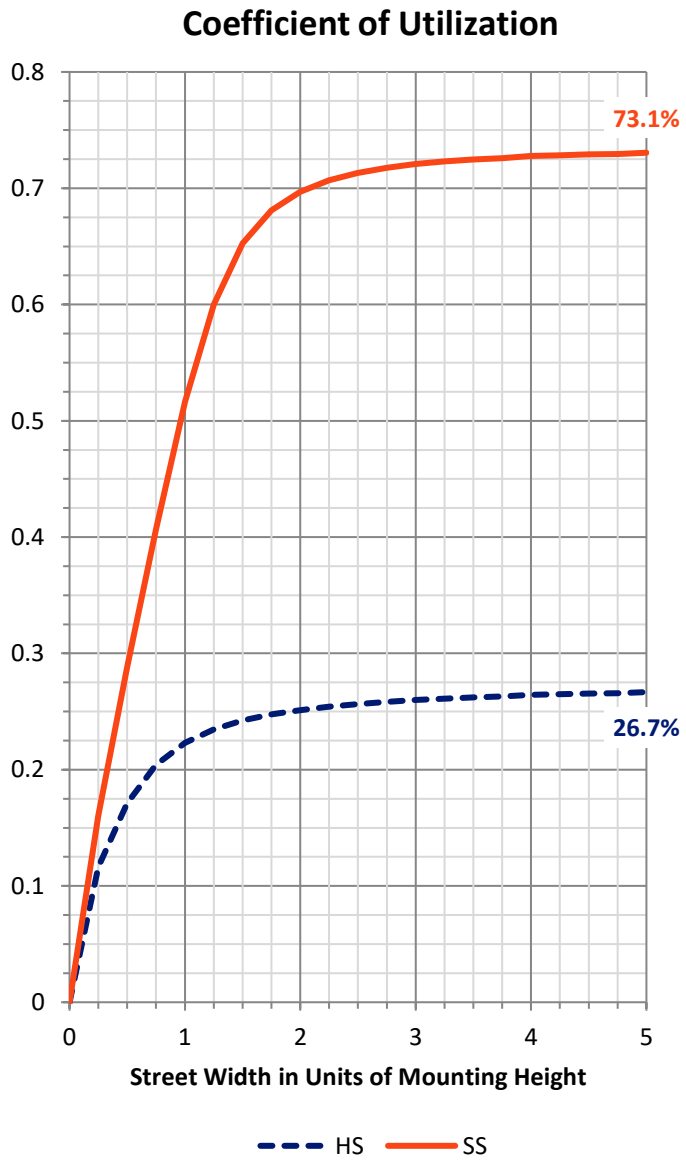
REPORT NUMBER: P1501402
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2807.0	0.0	2807.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7631.3	0.0	7631.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	10438.3	0.0	10438.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.5
10°-20°	453.9	4.3
20°-30°	859.8	8.2
30°-40°	1515.8	14.5
40°-50°	2241.8	21.5
50°-60°	2632.5	25.2
60°-70°	1907.3	18.3
70°-80°	588.2	5.6
80°-90°	81.0	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°	10438.3	100.0
0°-180°	10438.3	100.0



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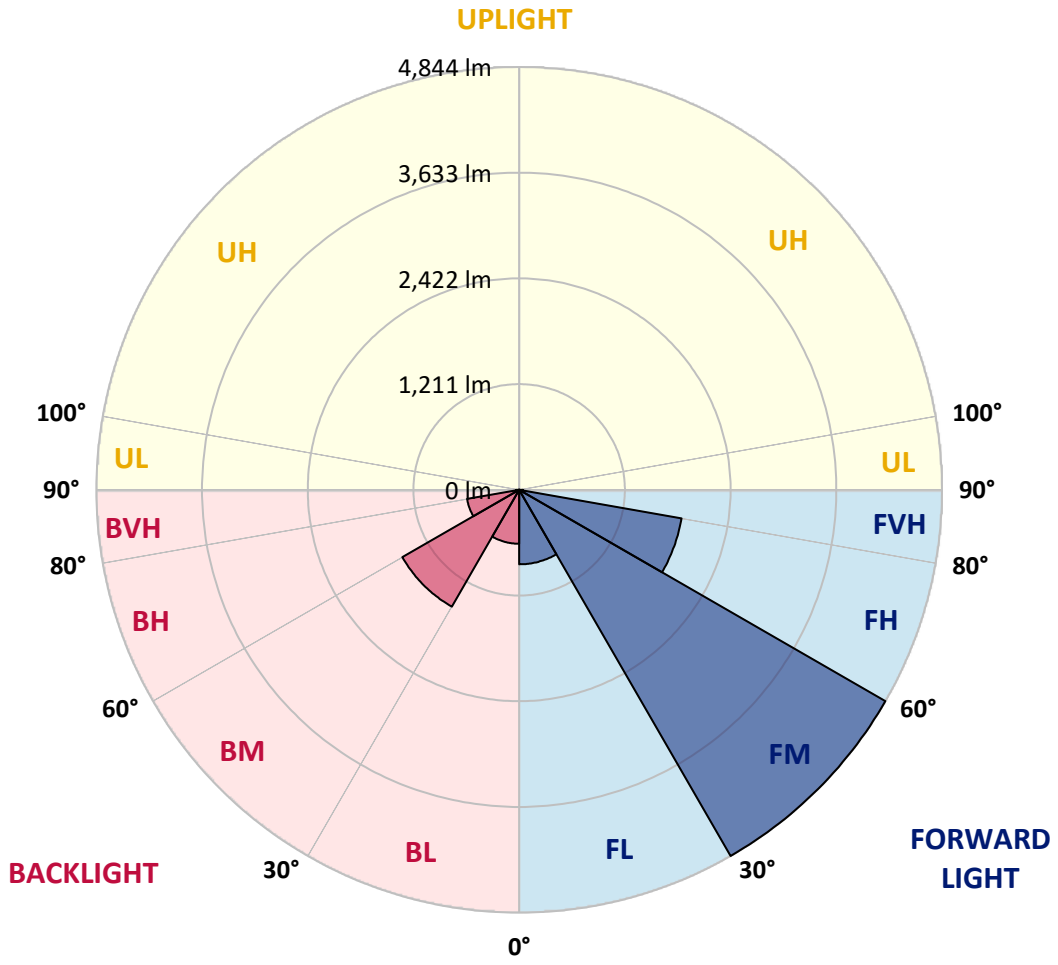
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	853.5	8.2			
FM	(30°-60°)	4844.5	46.4			
FH	(60°-80°)	1889.7	18.1			G2/5000
FVH	(80°-90°)	43.7	0.4			G1/100
BL	(0°-30°)	618.2	5.9	B2/1000		
BM	(30°-60°)	1545.6	14.8	B2/2500		
BH	(60°-80°)	605.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	37.3	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°	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5
2.5°	1712.8	1717.5	1710.4	1715.2	1715.2	1708.0	1705.6	1696.1	1700.9	1698.5	1696.1
5°	1753.2	1755.6	1750.8	1758.0	1758.0	1760.4	1758.0	1746.1	1746.1	1746.1	1741.3
7.5°	1741.3	1741.3	1743.7	1767.5	1791.3	1822.2	1822.2	1817.4	1822.2	1819.8	1798.4
10°	1641.4	1650.9	1672.3	1731.8	1788.9	1855.5	1900.7	1915.0	1915.0	1917.4	1881.7
12.5°	1463.0	1470.1	1520.1	1610.5	1729.4	1850.8	1960.2	2031.5	2038.7	2050.6	2003.0
15°	1303.6	1308.4	1344.1	1436.8	1572.4	1786.5	1993.5	2141.0	2164.8	2214.7	2143.4
17.5°	1317.9	1315.5	1325.0	1360.7	1458.2	1681.9	1986.3	2269.4	2312.2	2400.3	2338.4
20°	1403.5	1403.5	1410.7	1417.8	1453.5	1605.7	1934.0	2374.1	2457.4	2628.6	2557.3
22.5°	1539.1	1539.1	1536.7	1548.6	1548.6	1639.0	1936.4	2452.6	2576.3	2883.2	2814.2
25°	1727.1	1717.5	1717.5	1722.3	1700.9	1765.1	1995.9	2533.5	2695.2	3185.3	3125.8
27.5°	1938.8	1945.9	1941.1	1924.5	1895.9	1945.9	2138.6	2659.6	2828.5	3504.1	3480.3
30°	2169.5	2171.9	2176.7	2167.1	2143.4	2179.0	2362.2	2849.9	3004.5	3837.1	3889.4
32.5°	2395.5	2428.8	2416.9	2393.1	2402.6	2466.9	2638.2	3106.8	3266.2	4146.3	4331.9
35°	2683.4	2695.2	2742.8	2654.8	2657.2	2766.6	2990.2	3444.6	3599.2	4467.5	4774.4
37.5°	3102.0	3123.4	3102.0	2964.1	2942.6	3094.9	3332.8	3777.6	3889.4	4710.1	5185.9
40°	3513.6	3539.7	3575.4	3413.7	3278.1	3404.1	3656.3	4032.2	4148.7	4843.4	5459.5
42.5°	3853.7	3896.6	3858.5	3810.9	3687.2	3711.0	3882.3	4229.6	4346.2	5012.3	5735.4
45°	4141.6	4148.7	4165.4	4132.1	4070.2	4048.8	4075.0	4403.3	4531.7	5088.4	5871.0
47.5°	4260.5	4291.5	4305.7	4362.8	4427.1	4384.2	4239.1	4484.1	4600.7	5083.6	5913.8
50°	4196.3	4227.2	4303.4	4438.9	4593.6	4669.7	4431.8	4596.0	4726.8	5169.3	6001.9
52.5°	4027.4	4060.7	4184.4	4339.0	4598.3	4772.0	4703.0	4829.1	4955.2	5321.5	6149.3
55°	3618.2	3668.2	3841.9	4098.8	4455.6	4717.3	4988.5	5171.6	5309.6	5504.7	6301.6
57.5°	3023.5	3075.9	3270.9	3656.3	4191.5	4491.3	5071.7	5813.9	5875.8	5723.5	6315.9
60°	*2264.7*	*2307.5*	*2583.4*	*2892.7*	*3520.7*	*4077.4*	*5024.1*	*6422.9*	*6579.9*	*5685.5*	*5861.5*
62.5°	1793.7	1846.0	2091.0	2233.7	2683.4	3368.5	4857.6	6591.8	6727.4	5371.5	5228.7
65°	1401.1	1436.8	1665.2	1869.8	1979.2	2300.4	4163.0	5766.4	5887.7	4860.0	4315.2
67.5°	925.4	980.1	1251.3	1532.0	1589.1	1463.0	2864.1	4436.6	4493.7	3863.3	3244.8
70°	663.7	689.9	892.1	1191.8	1277.4	980.1	1560.5	3358.9	3375.6	2593.0	2186.2
72.5°	452.0	456.7	606.6	913.5	1018.2	711.3	858.8	2212.3	2155.2	1279.8	1251.3
75°	306.9	311.6	387.8	609.0	720.8	494.8	559.0	1206.1	1158.5	706.5	758.9
77.5°	207.0	211.7	266.4	409.2	480.5	342.6	409.2	637.5	625.6	468.6	406.8
80°	157.0	164.1	197.4	261.7	335.4	199.8	233.1	302.1	306.9	249.8	207.0
82.5°	88.0	97.5	118.9	133.2	216.5	111.8	111.8	180.8	173.7	154.6	111.8
85°	38.1	40.4	47.6	50.0	88.0	47.6	40.4	78.5	80.9	76.1	35.7
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	9.5	9.5	9.5
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°	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5
2.5°	1684.2	1698.5	1684.2	1677.1	1677.1	1665.2	1660.4	1660.4	1643.8	1650.9	1646.2
5°	1722.3	1727.1	1710.4	1689.0	1660.4	1636.7	1603.4	1560.5	1534.4	1532.0	1534.4
7.5°	1781.8	1784.1	1738.9	1691.4	1620.0	1534.4	1432.1	1348.8	1275.1	1263.2	1277.4
10°	1865.0	1860.3	1793.7	1681.9	1532.0	1351.2	1194.2	1118.1	1075.2	1072.9	1070.5
12.5°	1976.8	1945.9	1843.6	1641.4	1379.7	1170.4	1089.5	1084.8	1096.7	1106.2	1108.5
15°	2105.3	2064.8	1884.1	1562.9	1225.1	1103.8	1108.5	1149.0	1163.3	1172.8	1172.8
17.5°	2264.7	2212.3	1929.3	1451.1	1146.6	1118.1	1151.4	1189.4	1213.2	1222.7	1220.4
20°	2476.4	2367.0	1964.9	1344.1	1125.2	1141.9	1170.4	1208.5	1232.2	1244.1	1244.1
22.5°	2688.1	2552.5	1972.1	1270.3	1125.2	1144.2	1170.4	1208.5	1234.6	1246.5	1244.1
25°	2976.0	2790.4	1974.5	1218.0	1127.6	1132.3	1156.1	1189.4	1227.5	1239.4	1244.1
27.5°	3282.8	3052.1	1986.3	1206.1	1118.1	1115.7	1132.3	1163.3	1201.3	1232.2	1234.6
30°	3663.4	3347.1	1991.1	1218.0	1120.4	1089.5	1101.4	1132.3	1172.8	1203.7	1213.2
32.5°	4036.9	3620.6	1981.6	1244.1	1125.2	1072.9	1075.2	1094.3	1137.1	1158.5	1175.2
35°	4431.8	3910.8	1964.9	1279.8	1127.6	1065.7	1044.3	1053.8	1082.4	1084.8	1091.9
37.5°	4741.1	4127.3	1915.0	1327.4	1132.3	1039.6	996.7	989.6	977.7	953.9	958.7
40°	4995.6	4272.4	1831.7	1351.2	1120.4	1008.6	937.3	904.0	858.8	823.1	830.2
42.5°	5178.8	4370.0	1731.8	1355.9	1101.4	956.3	868.3	811.2	761.2	723.2	725.6
45°	5259.7	4360.4	1624.8	1320.3	1056.2	892.1	804.1	749.3	694.6	654.2	649.4
47.5°	5262.0	4267.7	1477.3	1234.6	980.1	818.3	744.6	685.1	639.9	611.4	609.0
50°	5281.1	4215.3	1339.3	1110.9	880.2	739.8	692.2	632.8	606.6	566.2	554.3
52.5°	5400.0	4301.0	1244.1	975.3	787.4	682.7	647.0	594.7	551.9	525.7	523.3
55°	5592.7	4448.5	1191.8	873.0	699.4	628.0	604.2	559.0	521.0	494.8	487.7
57.5°	5616.5	4524.6	1130.0	777.9	628.0	585.2	575.7	525.7	471.0	452.0	444.8
60°	*5283.4*	*4396.1*	*1053.8*	*689.9*	*575.7*	*551.9*	*547.1*	*480.5*	*435.3*	*411.5*	*402.0*
62.5°	4829.1	4075.0	937.3	609.0	535.2	518.6	499.6	447.2	390.1	364.0	356.8
65°	3946.5	3425.6	796.9	554.3	494.8	475.8	471.0	399.6	361.6	347.3	344.9
67.5°	2990.2	2752.3	701.8	513.8	452.0	444.8	428.2	404.4	387.8	371.1	366.3
70°	2114.8	1986.3	597.1	461.5	409.2	397.3	466.3	440.1	380.6	359.2	356.8
72.5°	1282.2	1246.5	516.2	413.9	352.1	371.1	430.6	397.3	342.6	316.4	306.9
75°	808.8	739.8	433.0	352.1	280.7	302.1	375.9	354.4	295.0	268.8	261.7
77.5°	440.1	409.2	325.9	287.8	221.2	245.0	328.3	292.6	235.5	256.9	228.4
80°	192.7	214.1	216.5	166.5	147.5	180.8	235.5	228.4	180.8	183.2	152.2
82.5°	92.8	121.3	140.4	114.2	83.3	107.0	157.0	130.8	121.3	114.2	109.4
85°	28.5	45.2	61.9	54.7	38.1	45.2	73.7	71.4	85.6	73.7	69.0
87.5°	9.5	9.5	7.1	7.1	7.1	9.5	11.9	7.1	2.4	2.4	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°	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5
2.5°	1643.8	1646.2	1646.2	1648.5	1648.5	1655.7	1665.2	1674.7	1667.6	1677.1	1679.5
5°	1529.6	1541.5	1551.0	1586.7	1615.2	1639.0	1665.2	1689.0	1696.1	1700.9	1712.8
7.5°	1260.8	1294.1	1355.9	1436.8	1527.2	1615.2	1674.7	1736.6	1746.1	1758.0	1774.6
10°	1072.9	1087.1	1130.0	1213.2	1375.0	1548.6	1693.7	1791.3	1831.7	1855.5	1872.2
12.5°	1103.8	1094.3	1087.1	1099.0	1203.7	1427.3	1681.9	1869.8	1945.9	1972.1	1993.5
15°	1177.5	1168.0	1141.9	1108.5	1120.4	1298.9	1641.4	1943.5	2064.8	2107.7	2152.9
17.5°	1220.4	1210.8	1189.4	1153.7	1122.8	1191.8	1565.3	2010.1	2252.8	2305.1	2369.3
20°	1244.1	1234.6	1213.2	1177.5	1141.9	1151.4	1467.8	2093.4	2466.9	2550.1	2645.3
22.5°	1248.9	1237.0	1213.2	1177.5	1156.1	1149.0	1375.0	2143.4	2697.6	2826.1	2935.5
25°	1246.5	1225.1	1194.2	1168.0	1156.1	1153.7	1310.8	2171.9	2947.4	3152.0	3275.7
27.5°	1229.9	1203.7	1172.8	1153.7	1149.0	1163.3	1282.2	2205.2	3240.0	3501.7	3699.1
30°	1210.8	1172.8	1134.7	1127.6	1139.5	1184.7	1306.0	2217.1	3546.9	3882.3	4084.5
32.5°	1160.9	1132.3	1094.3	1091.9	1120.4	1201.3	1360.7	2200.4	3818.1	4262.9	4517.5
35°	1089.5	1072.9	1051.5	1058.6	1103.8	1215.6	1398.8	2148.1	4065.5	4617.4	4914.7
37.5°	963.4	975.3	987.2	1003.9	1061.0	1213.2	1415.4	2064.8	4270.0	4900.4	5281.1
40°	823.1	863.5	901.6	944.4	1020.5	1194.2	1420.2	1962.6	4389.0	5114.5	5607.0
42.5°	735.1	773.1	820.7	882.6	965.8	1151.4	1415.4	1848.4	4427.1	5262.0	5813.9
45°	654.2	699.4	758.9	823.1	918.2	1089.5	1372.6	1724.7	4446.1	5331.0	5901.9
47.5°	611.4	637.5	692.2	756.5	856.4	1013.4	1289.3	1634.3	4417.5	5345.3	6009.0
50°	561.4	597.1	632.8	694.6	792.2	918.2	1189.4	1581.9	4465.1	5485.6	6177.9
52.5°	523.3	542.4	580.4	637.5	708.9	830.2	1094.3	1539.1	4596.0	5628.4	6353.9
55°	494.8	516.2	540.0	587.6	642.3	742.2	996.7	1474.9	4748.2	5780.6	6530.0
57.5°	449.6	463.9	497.2	547.1	582.8	656.6	882.6	1398.8	4736.3	5661.7	6225.5
60°	*409.2*	*423.4*	*459.1*	*509.1*	*530.5*	*580.4*	*770.7*	*1301.2*	*4507.9*	*5273.9*	*5664.1*
62.5°	364.0	380.6	423.4	459.1	478.2	516.2	654.2	1122.8	4032.2	4691.1	5007.5
65°	344.9	354.4	383.0	425.8	423.4	459.1	551.9	882.6	3244.8	3584.9	3872.8
67.5°	366.3	380.6	375.9	387.8	380.6	399.6	494.8	708.9	2550.1	2700.0	2866.5
70°	361.6	394.9	411.5	387.8	333.0	354.4	428.2	566.2	1824.6	1810.3	1803.2
72.5°	316.4	349.7	397.3	421.1	325.9	295.0	371.1	490.0	1170.4	1165.6	1053.8
75°	268.8	292.6	349.7	380.6	280.7	237.9	318.8	416.3	699.4	708.9	632.8
77.5°	247.4	235.5	292.6	335.4	228.4	183.2	256.9	314.0	385.4	390.1	361.6
80°	178.4	171.3	218.9	245.0	173.7	130.8	145.1	195.1	207.0	185.6	192.7
82.5°	114.2	116.6	130.8	157.0	107.0	71.4	99.9	130.8	111.8	90.4	107.0
85°	73.7	83.3	69.0	80.9	33.3	33.3	42.8	57.1	38.1	26.2	28.5
87.5°	0.0	0.0	4.8	9.5	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: P1501402
CATALOG NUMBER: GSS-SB2B-730-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1679.5	1679.5	*1679.5*	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5	1679.5
2.5°	1686.6	1684.2	*1684.2*	1689.0	1700.9	1705.6	1712.8	1710.4	1717.5	1712.8
5°	1719.9	1722.3	*1729.4*	1731.8	1738.9	1748.5	1750.8	1748.5	1753.2	1753.2
7.5°	1786.5	1796.0	*1791.3*	1803.2	1793.7	1781.8	1762.7	1748.5	1736.6	1741.3
10°	1898.3	1893.6	*1891.2*	1869.8	1827.0	1765.1	1715.2	1660.4	1650.9	1641.4
12.5°	2022.0	2017.3	*2017.3*	1943.5	1822.2	1693.7	1579.6	1493.9	1465.4	1463.0
15°	2195.7	2164.8	*2136.2*	1981.6	1738.9	1520.1	1386.9	1320.3	1303.6	1303.6
17.5°	2412.2	2331.3	*2283.7*	1953.0	1603.4	1405.9	1327.4	1310.8	1306.0	1317.9
20°	2681.0	2476.4	*2407.4*	1888.8	1553.4	1420.2	1382.1	1384.5	1386.9	1403.5
22.5°	2976.0	2609.6	*2495.4*	1888.8	1603.4	1510.6	1491.5	1517.7	1524.8	1539.1
25°	3304.2	2728.5	*2573.9*	1988.7	1750.8	1681.9	1658.1	1684.2	1703.3	1727.1
27.5°	3673.0	2852.3	*2709.5*	2169.5	1941.1	1898.3	1872.2	1884.1	1910.2	1938.8
30°	4003.6	3059.2	*2916.5*	2445.5	2200.4	2148.1	2102.9	2121.9	2150.5	2169.5
32.5°	4296.2	3311.4	*3190.0*	2735.7	2497.8	2407.4	2357.4	2352.7	2409.8	2395.5
35°	4565.0	3608.7	*3492.2*	3066.3	2799.9	2688.1	2621.5	2707.1	2669.1	2683.4
37.5°	4776.7	3918.0	*3825.2*	3382.7	3113.9	2961.7	2921.2	3025.9	3085.4	3102.0
40°	4950.4	4186.8	*4089.3*	3696.7	3401.8	3290.0	3354.2	3527.8	3520.7	3513.6
42.5°	5083.6	4417.5	*4310.5*	3934.6	3677.7	3699.1	3749.1	3865.6	3894.2	3853.7
45°	5143.1	4562.6	*4477.0*	4122.6	3991.7	4115.4	4136.8	4186.8	4167.8	4141.6
47.5°	5212.1	4691.1	*4600.7*	4293.8	4331.9	4453.2	4410.4	4370.0	4301.0	4260.5
50°	5328.6	4843.4	*4767.2*	4543.6	4681.6	4641.2	4474.6	4384.2	4243.9	4196.3
52.5°	5549.9	5131.2	*5074.1*	4938.5	4845.7	4612.6	4410.4	4248.6	4091.6	4027.4
55°	5747.3	5521.3	*5488.0*	5307.2	4795.8	4462.7	4191.5	3941.8	3673.0	3618.2
57.5°	5861.5	6168.4	*6206.4*	5464.2	4567.4	4122.6	3722.9	3323.3	3068.7	3023.5
60°	*5521.3*	*6867.8*	*6886.8*	*5433.3*	*4155.9*	*3508.8*	*2899.8*	*2616.7*	*2343.2*	*2264.7*
62.5°	5052.7	6722.7	*6706.0*	5247.8	3309.0	2559.7	2202.8	2069.6	1857.9	1793.7
65°	4343.8	5599.8	*5618.9*	4534.1	2200.4	1850.8	1850.8	1681.9	1446.3	1401.1
67.5°	3539.7	4317.6	*4274.8*	2940.3	1351.2	1482.0	1553.4	1310.8	980.1	925.4
70°	2300.4	3297.1	*3237.6*	1696.1	849.3	1234.6	1222.7	984.8	701.8	663.7
72.5°	989.6	1905.5	*2026.8*	865.9	639.9	994.4	975.3	689.9	468.6	452.0
75°	597.1	958.7	*1044.3*	551.9	466.3	749.3	675.6	437.7	318.8	306.9
77.5°	378.2	525.7	*521.0*	413.9	349.7	506.7	454.4	302.1	216.5	207.0
80°	218.9	259.3	*268.8*	259.3	235.5	361.6	290.2	218.9	168.9	157.0
82.5°	140.4	161.8	*164.1*	126.1	130.8	233.1	157.0	128.5	97.5	88.0
85°	61.9	69.0	*66.6*	42.8	42.8	95.2	54.7	52.3	38.1	38.1
87.5°	2.4	4.8	*2.4*	2.4	2.4	9.5	4.8	7.1	7.1	7.1
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

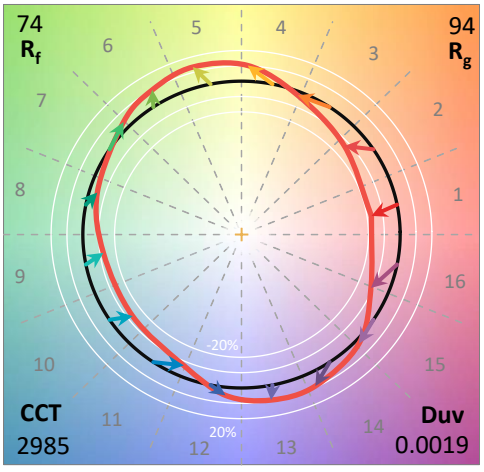
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-4
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-730-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

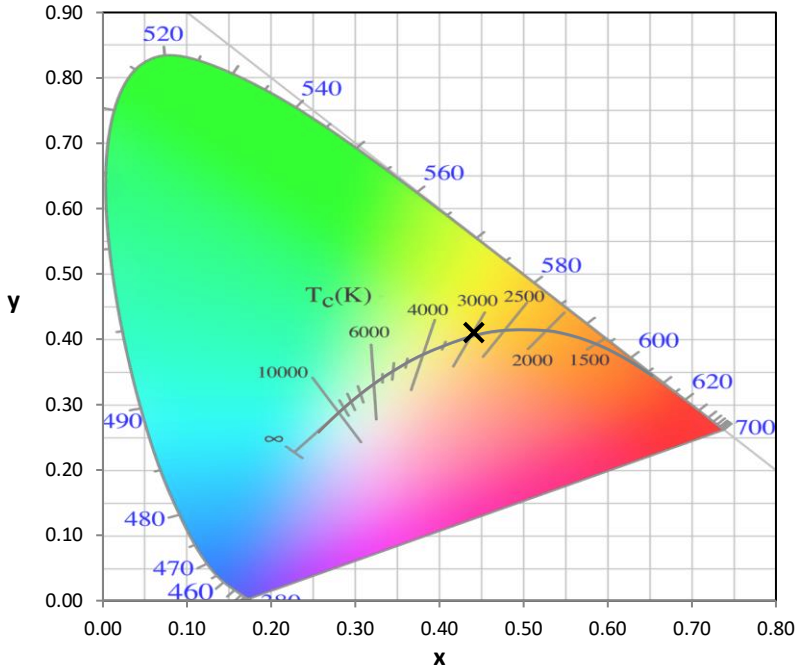
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

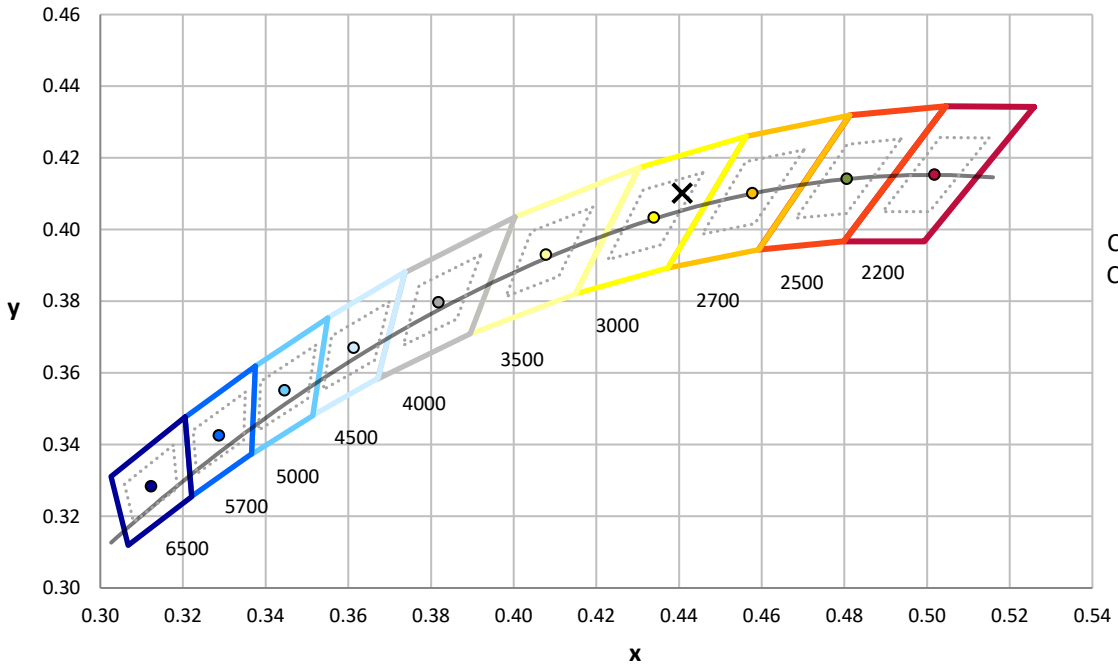
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

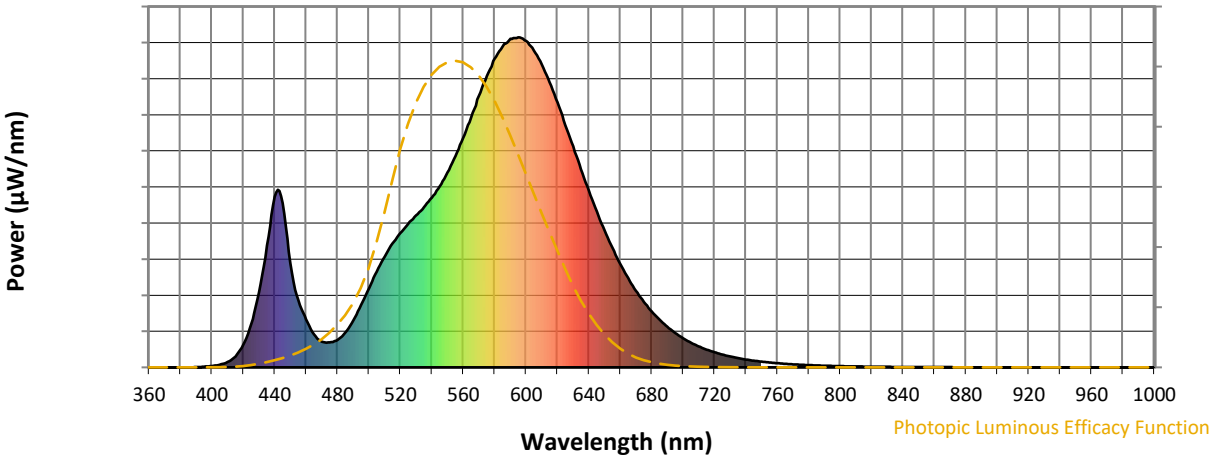


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

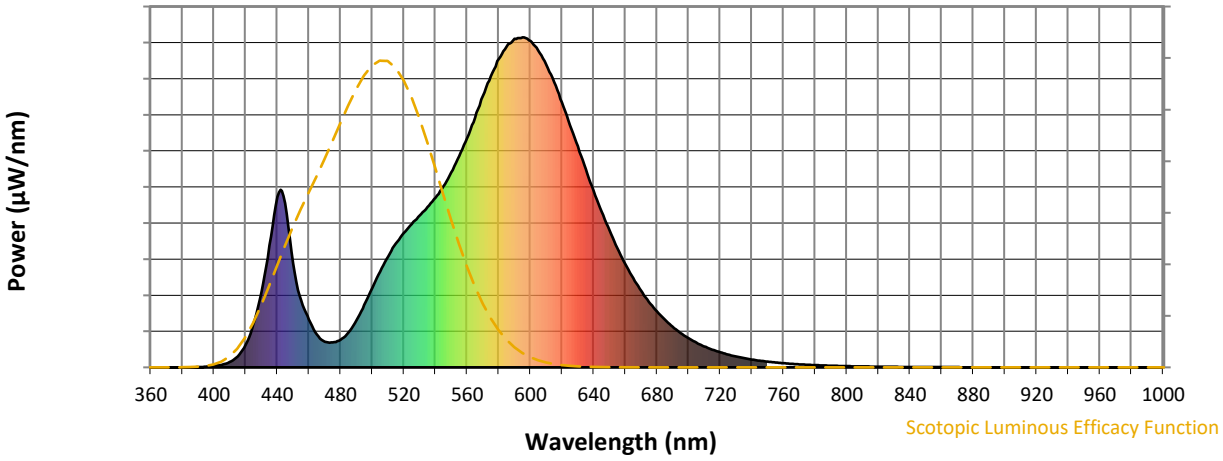


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength

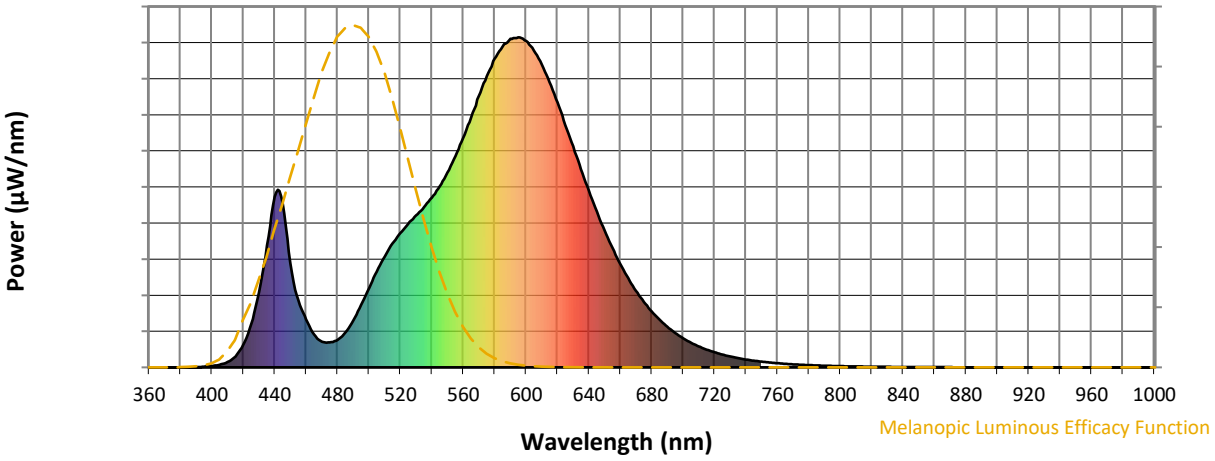


Scotopic Lumens: NR **S/P: 1.19**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

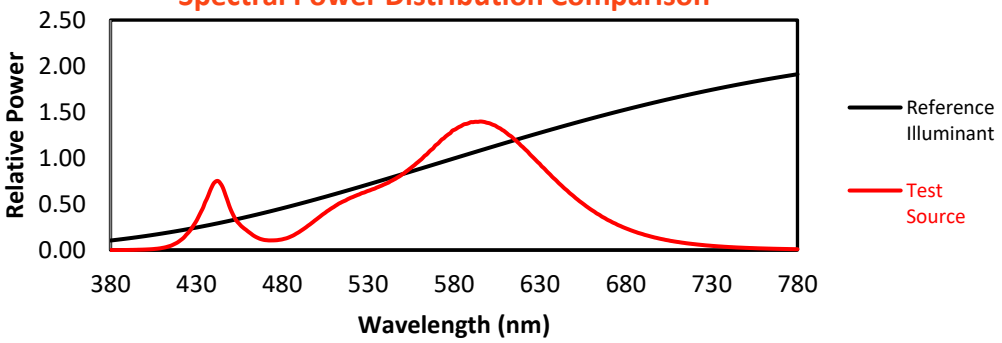
REPORT NUMBER: SP1-2407-184-4

TM-30-18

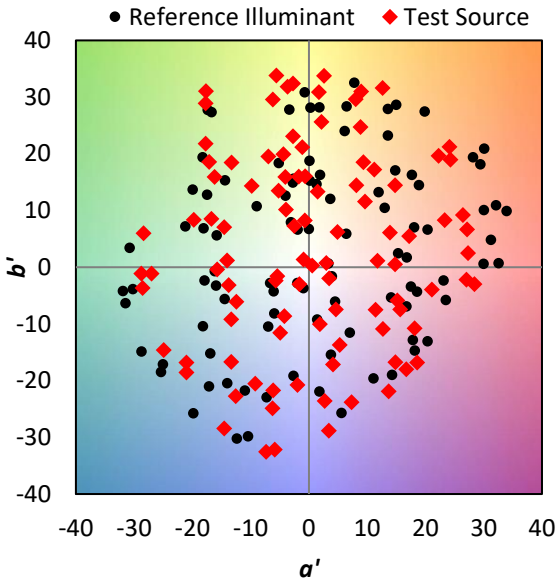
Summary

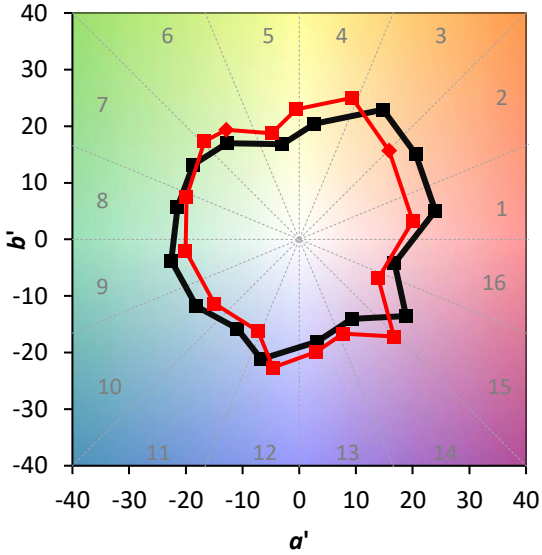
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R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

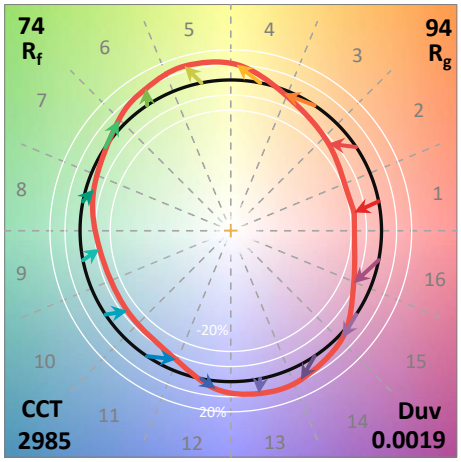
Spectral Power Distribution Comparison

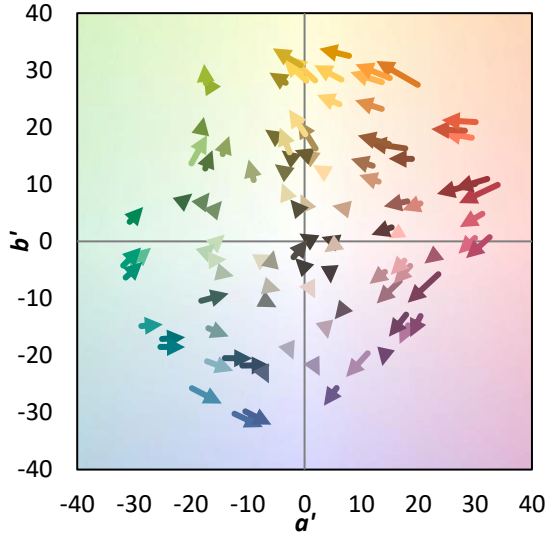


Color Vector Graphics







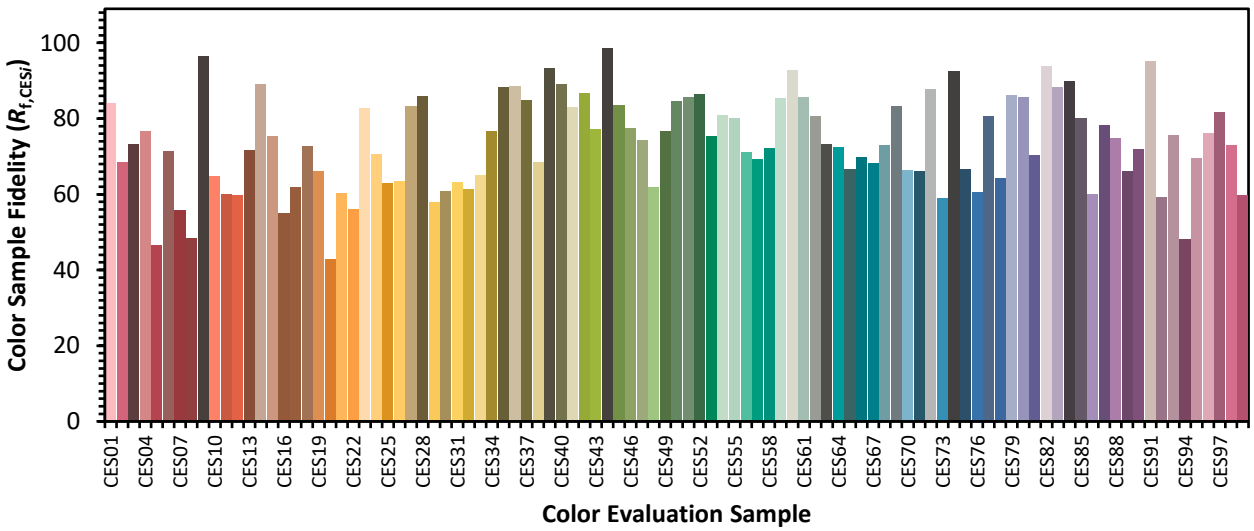


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Individual Sample Fidelity Index ($R_{f,i}$)

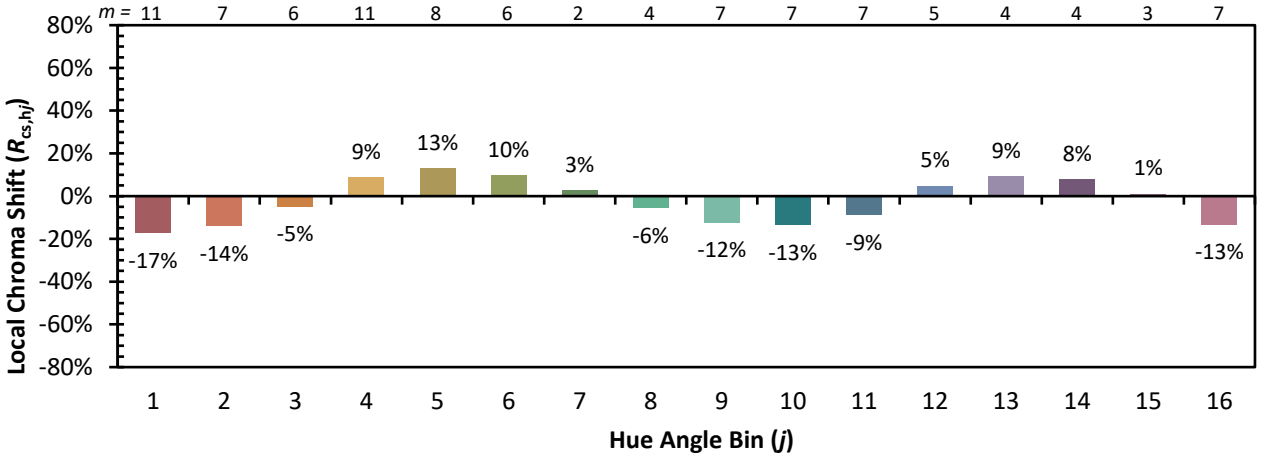
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CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
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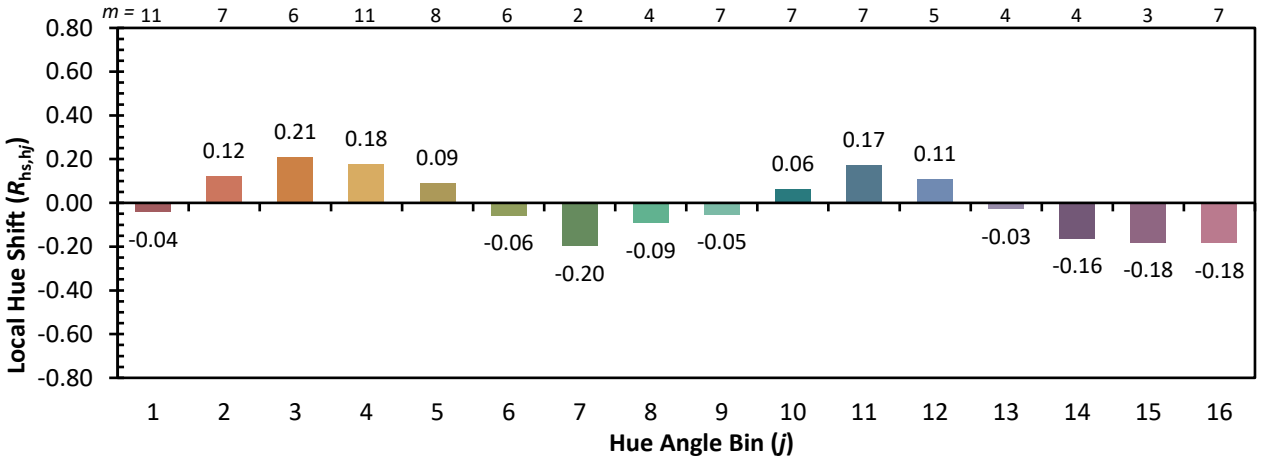


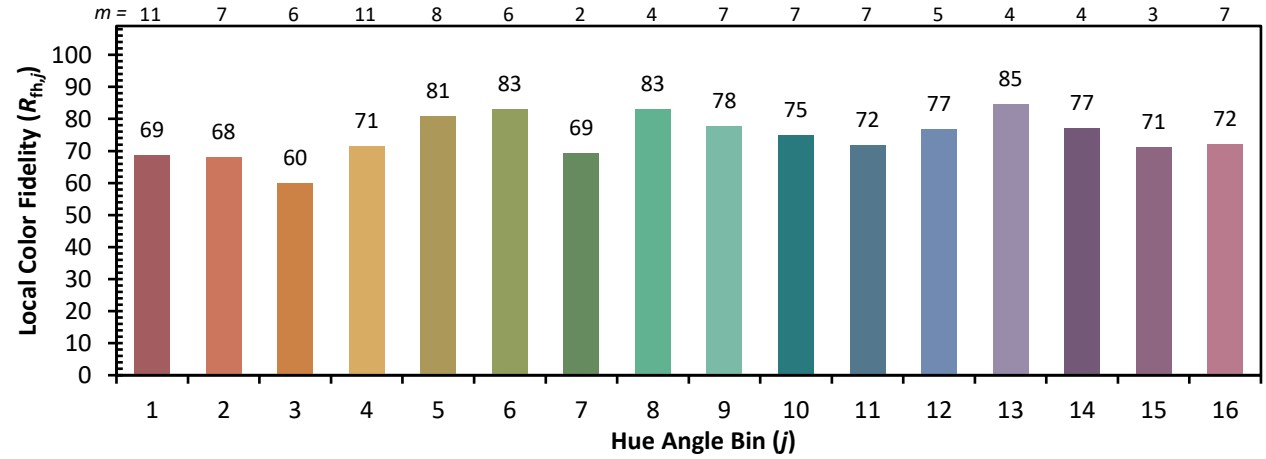
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Color Rendition by Hue-Angle Bin



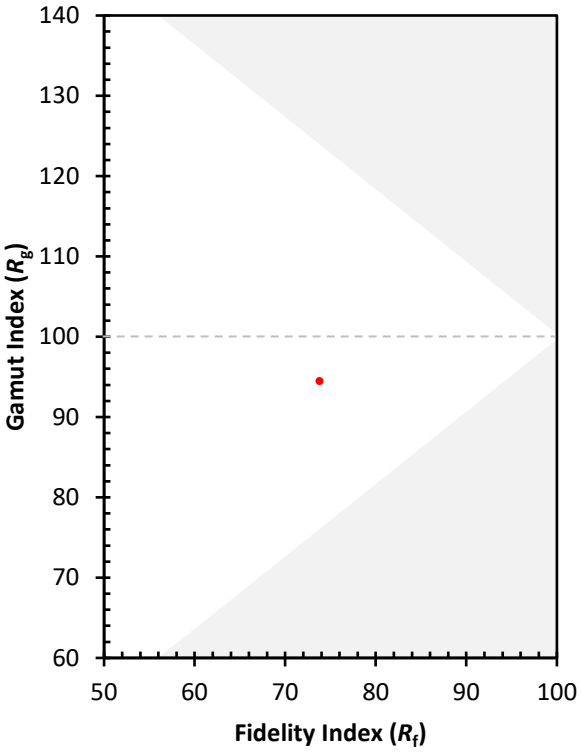


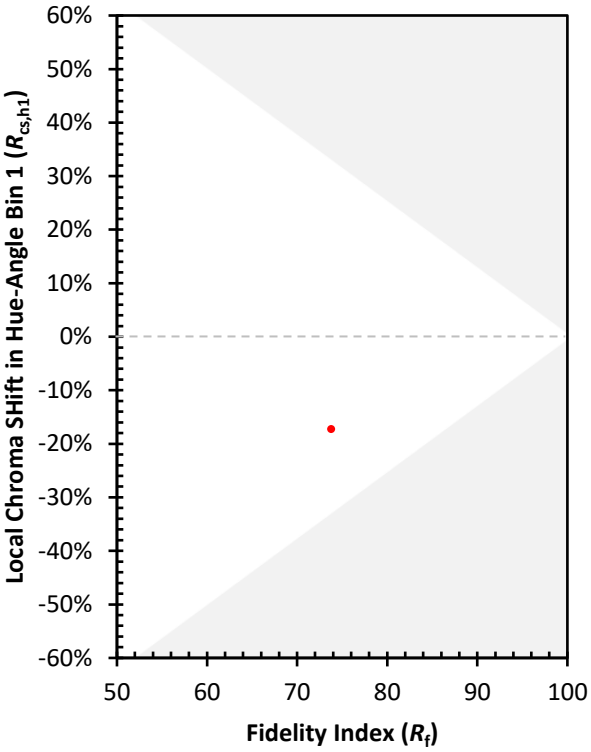


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Measure Comparisons





(END OF REPORT)