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: P1501570

Luminaire Tested: GSS-SB2B-840-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:	P1501570
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2B-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9985.4 lumens
Efficiency:	N/A
Efficacy:	134.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

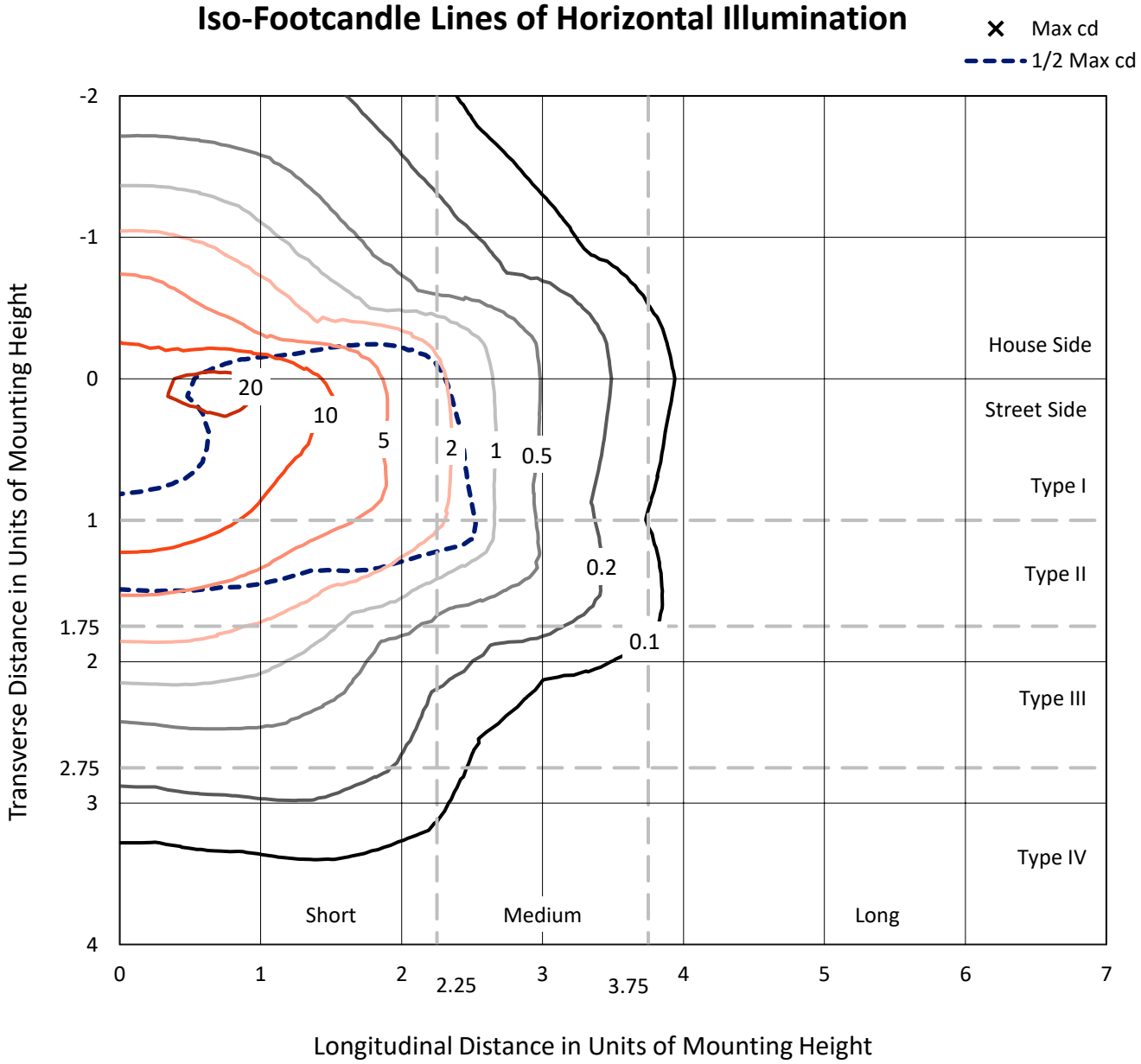
Input Watts (W):	74
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



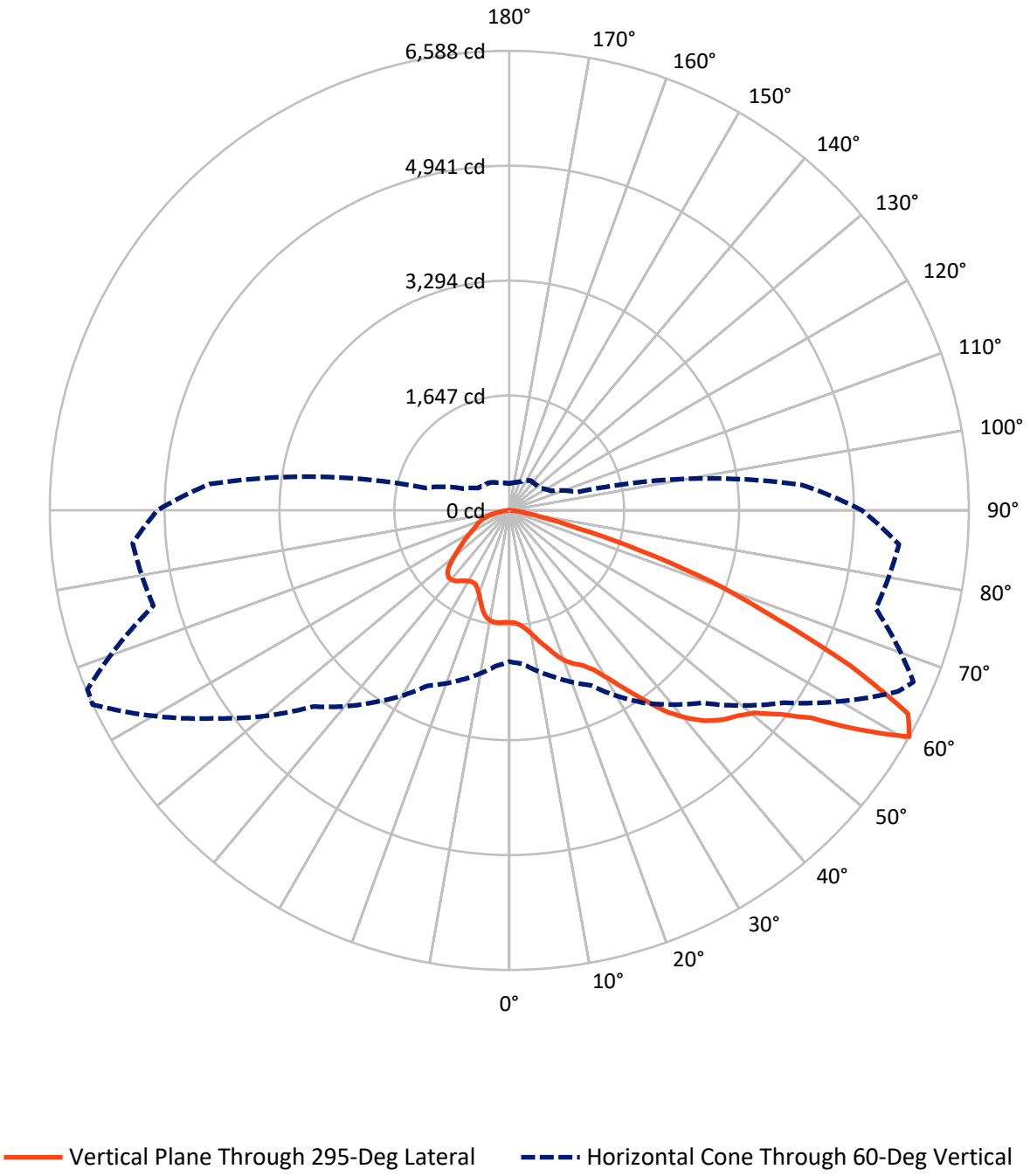
Based on 10 foot mounting height. Maximum calculated value = 24.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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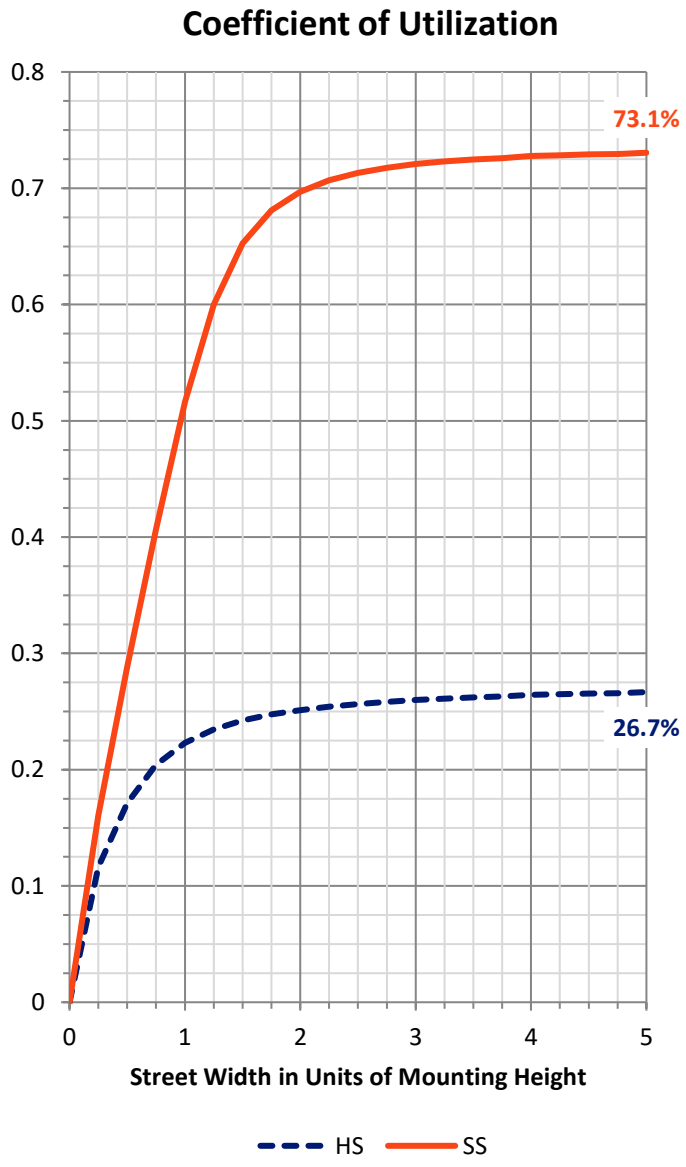
REPORT NUMBER: P1501570
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2685.2	0.0	2685.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7300.2	0.0	7300.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	9985.4	0.0	9985.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	1.5
10°-20°	434.2	4.3
20°-30°	822.5	8.2
30°-40°	1450.1	14.5
40°-50°	2144.5	21.5
50°-60°	2518.3	25.2
60°-70°	1824.6	18.3
70°-80°	562.7	5.6
80°-90°	77.5	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°	9985.4	100.0
0°-180°	9985.4	100.0



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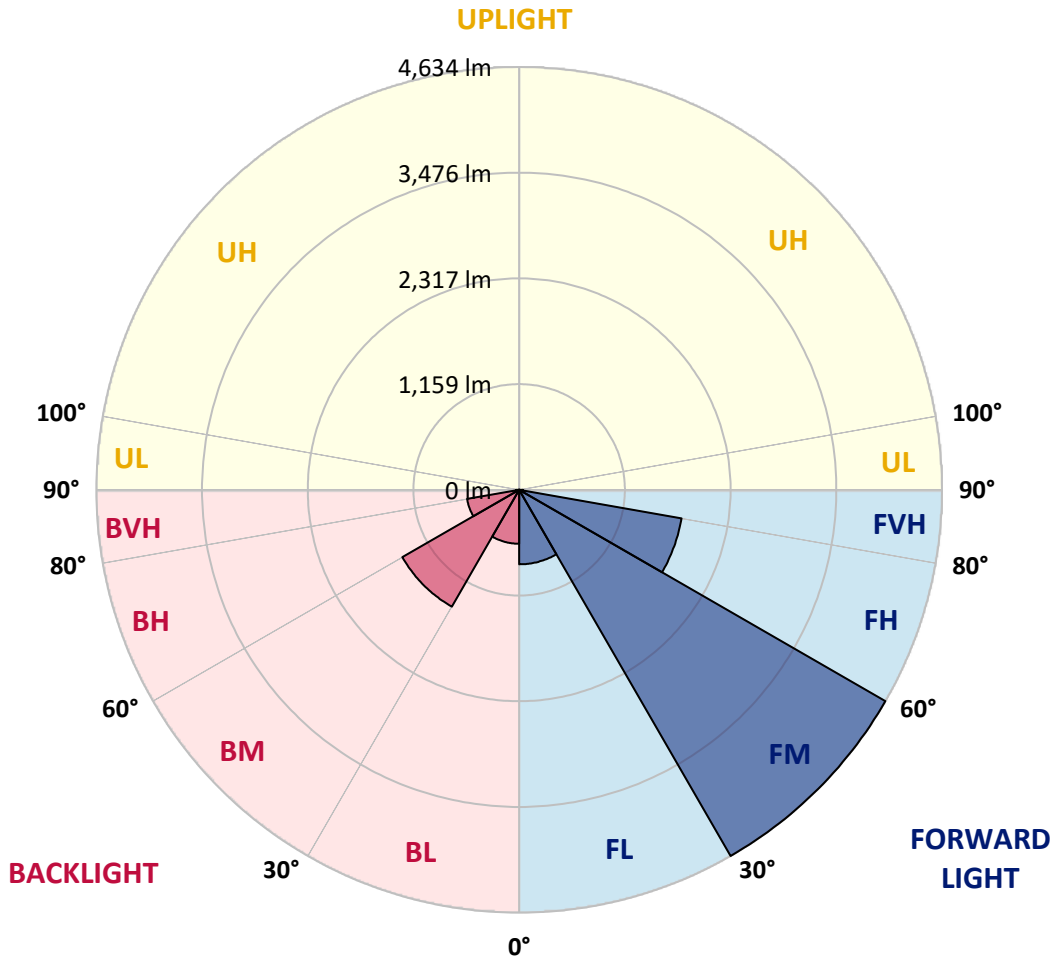
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	816.5	8.2			
FM	(30°-60°)	4634.3	46.4			
FH	(60°-80°)	1807.7	18.1			G2/5000
FVH	(80°-90°)	41.8	0.4			G1/100
BL	(0°-30°)	591.4	5.9	B2/1000		
BM	(30°-60°)	1478.6	14.8	B2/2500		
BH	(60°-80°)	579.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	35.7	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1638.5	1643.0	1636.2	1640.7	1640.7	1633.9	1631.6	1622.5	1627.1	1624.8	1622.5
5°	1677.2	1679.4	1674.9	1681.7	1681.7	1684.0	1681.7	1670.3	1670.3	1670.3	1665.8
7.5°	1665.8	1665.8	1668.0	1690.8	1713.6	1743.1	1743.1	1738.6	1743.1	1740.9	1720.4
10°	1570.2	1579.3	1599.8	1656.7	1711.3	1775.0	1818.2	1831.9	1831.9	1834.2	1800.0
12.5°	1399.5	1406.4	1454.1	1540.6	1654.4	1770.5	1875.1	1943.4	1950.2	1961.6	1916.1
15°	1247.1	1251.6	1285.7	1374.5	1504.2	1709.0	1907.0	2048.1	2070.8	2118.6	2050.4
17.5°	1260.7	1258.4	1267.5	1301.7	1395.0	1608.9	1900.2	2171.0	2211.9	2296.1	2237.0
20°	1342.6	1342.6	1349.5	1356.3	1390.4	1536.1	1850.1	2271.1	2350.7	2514.6	2446.3
22.5°	1472.3	1472.3	1470.1	1481.4	1481.4	1567.9	1852.4	2346.2	2464.5	2758.1	2692.1
25°	1652.1	1643.0	1643.0	1647.6	1627.1	1688.5	1909.3	2423.6	2578.3	3047.1	2990.2
27.5°	1854.7	1861.5	1856.9	1841.0	1813.7	1861.5	2045.8	2544.2	2705.7	3352.0	3329.3
30°	2075.4	2077.7	2082.2	2073.1	2050.4	2084.5	2259.7	2726.2	2874.1	3670.6	3720.7
32.5°	2291.6	2323.4	2312.1	2289.3	2298.4	2359.8	2523.7	2972.0	3124.5	3966.5	4144.0
35°	2566.9	2578.3	2623.8	2539.6	2541.9	2646.6	2860.5	3295.1	3443.1	4273.7	4567.2
37.5°	2967.4	2987.9	2967.4	2835.5	2815.0	2960.6	3188.2	3613.7	3720.7	4505.8	4960.9
40°	3361.1	3386.2	3420.3	3265.6	3135.8	3256.5	3497.7	3857.2	3968.7	4633.2	5222.6
42.5°	3686.5	3727.5	3691.1	3645.6	3527.3	3550.0	3713.9	4046.1	4157.6	4794.8	5486.6
45°	3961.9	3968.7	3984.7	3952.8	3893.6	3873.2	3898.2	4212.2	4335.1	4867.6	5616.3
47.5°	4075.7	4105.3	4118.9	4173.5	4235.0	4194.0	4055.2	4289.6	4401.1	4863.1	5657.3
50°	4014.2	4043.8	4116.6	4246.4	4394.3	4467.1	4239.5	4396.6	4521.7	4945.0	5741.5
52.5°	3852.7	3884.5	4002.9	4150.8	4398.8	4564.9	4499.0	4619.6	4740.2	5090.6	5882.6
55°	3461.3	3509.0	3675.2	3920.9	4262.3	4512.6	4772.0	4947.3	5079.2	5265.8	6028.2
57.5°	2892.3	2942.4	3129.0	3497.7	4009.7	4296.4	4851.7	5561.7	5620.9	5475.2	6041.8
60°	*2166.4*	*2207.4*	*2471.4*	*2767.2*	*3368.0*	*3900.5*	*4806.2*	*6144.2*	*6294.4*	*5438.8*	*5607.2*
62.5°	1715.8	1765.9	2000.3	2136.8	2566.9	3222.3	4646.9	6305.8	6435.5	5138.4	5001.9
65°	1340.4	1374.5	1593.0	1788.7	1893.3	2200.6	3982.4	5516.2	5632.2	4649.1	4128.0
67.5°	885.2	937.6	1197.0	1465.5	1520.1	1399.5	2739.9	4244.1	4298.7	3695.7	3104.0
70°	634.9	659.9	853.4	1140.1	1222.0	937.6	1492.8	3213.2	3229.1	2480.5	2091.3
72.5°	432.4	436.9	580.3	873.8	974.0	680.4	821.5	2116.4	2061.7	1224.3	1197.0
75°	293.6	298.1	370.9	582.6	689.5	473.3	534.8	1153.8	1108.2	675.9	725.9
77.5°	198.0	202.5	254.9	391.4	459.7	327.7	391.4	609.9	598.5	448.3	389.1
80°	150.2	157.0	188.9	250.3	320.9	191.2	223.0	289.0	293.6	238.9	198.0
82.5°	84.2	93.3	113.8	127.4	207.1	107.0	107.0	172.9	166.1	147.9	107.0
85°	36.4	38.7	45.5	47.8	84.2	45.5	38.7	75.1	77.4	72.8	34.1
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	9.1	9.1	9.1
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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1611.2	1624.8	1611.2	1604.3	1604.3	1593.0	1588.4	1588.4	1572.5	1579.3	1574.7
5°	1647.6	1652.1	1636.2	1615.7	1588.4	1565.6	1533.8	1492.8	1467.8	1465.5	1467.8
7.5°	1704.5	1706.7	1663.5	1618.0	1549.7	1467.8	1369.9	1290.3	1219.7	1208.4	1222.0
10°	1784.1	1779.6	1715.8	1608.9	1465.5	1292.6	1142.4	1069.6	1028.6	1026.3	1024.0
12.5°	1891.1	1861.5	1763.6	1570.2	1319.9	1119.6	1042.2	1037.7	1049.1	1058.2	1060.5
15°	2013.9	1975.3	1802.3	1495.1	1172.0	1055.9	1060.5	1099.1	1112.8	1121.9	1121.9
17.5°	2166.4	2116.4	1845.6	1388.1	1096.9	1069.6	1101.4	1137.8	1160.6	1169.7	1167.4
20°	2368.9	2264.3	1879.7	1285.7	1076.4	1092.3	1119.6	1156.0	1178.8	1190.2	1190.2
22.5°	2571.5	2441.8	1886.5	1215.2	1076.4	1094.6	1119.6	1156.0	1181.1	1192.4	1190.2
25°	2846.8	2669.3	1888.8	1165.1	1078.7	1083.2	1106.0	1137.8	1174.2	1185.6	1190.2
27.5°	3140.4	2919.7	1900.2	1153.8	1069.6	1067.3	1083.2	1112.8	1149.2	1178.8	1181.1
30°	3504.5	3201.8	1904.7	1165.1	1071.8	1042.2	1053.6	1083.2	1121.9	1151.5	1160.6
32.5°	3861.8	3463.5	1895.6	1190.2	1076.4	1026.3	1028.6	1046.8	1087.8	1108.2	1124.2
35°	4239.5	3741.2	1879.7	1224.3	1078.7	1019.5	999.0	1008.1	1035.4	1037.7	1044.5
37.5°	4535.4	3948.2	1831.9	1269.8	1083.2	994.5	953.5	946.7	935.3	912.5	917.1
40°	4778.9	4087.1	1752.2	1292.6	1071.8	964.9	896.6	864.7	821.5	787.4	794.2
42.5°	4954.1	4180.4	1656.7	1297.1	1053.6	914.8	830.6	776.0	728.2	691.8	694.1
45°	5031.5	4171.3	1554.3	1263.0	1010.4	853.4	769.2	716.8	664.5	625.8	621.3
47.5°	5033.7	4082.5	1413.2	1181.1	937.6	782.8	712.3	655.4	612.1	584.8	582.6
50°	5051.9	4032.4	1281.2	1062.7	842.0	707.7	662.2	605.3	580.3	541.6	530.2
52.5°	5165.7	4114.4	1190.2	933.0	753.2	653.1	619.0	568.9	528.0	502.9	500.6
55°	5350.0	4255.5	1140.1	835.2	669.0	600.8	578.0	534.8	498.4	473.3	466.5
57.5°	5372.8	4328.3	1080.9	744.1	600.8	559.8	550.7	502.9	450.6	432.4	425.5
60°	*5054.2*	*4205.4*	*1008.1*	*659.9*	*550.7*	*528.0*	*523.4*	*459.7*	*416.4*	*393.7*	*384.6*
62.5°	4619.6	3898.2	896.6	582.6	512.0	496.1	477.9	427.8	373.2	348.2	341.3
65°	3775.3	3276.9	762.3	530.2	473.3	455.1	450.6	382.3	345.9	332.2	330.0
67.5°	2860.5	2632.9	671.3	491.5	432.4	425.5	409.6	386.9	370.9	355.0	350.4
70°	2023.1	1900.2	571.2	441.5	391.4	380.0	446.0	421.0	364.1	343.6	341.3
72.5°	1226.6	1192.4	493.8	396.0	336.8	355.0	411.9	380.0	327.7	302.7	293.6
75°	773.7	707.7	414.2	336.8	268.5	289.0	359.6	339.1	282.2	257.1	250.3
77.5°	421.0	391.4	311.8	275.4	211.6	234.4	314.0	279.9	225.3	245.8	218.5
80°	184.3	204.8	207.1	159.3	141.1	172.9	225.3	218.5	172.9	175.2	145.6
82.5°	88.8	116.1	134.3	109.2	79.6	102.4	150.2	125.2	116.1	109.2	104.7
85°	27.3	43.2	59.2	52.3	36.4	43.2	70.5	68.3	81.9	70.5	66.0
87.5°	9.1	9.1	6.8	6.8	6.8	9.1	11.4	6.8	2.3	2.3	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1572.5	1574.7	1574.7	1577.0	1577.0	1583.9	1593.0	1602.1	1595.2	1604.3	1606.6
5°	1463.2	1474.6	1483.7	1517.9	1545.2	1567.9	1593.0	1615.7	1622.5	1627.1	1638.5
7.5°	1206.1	1238.0	1297.1	1374.5	1461.0	1545.2	1602.1	1661.2	1670.3	1681.7	1697.6
10°	1026.3	1040.0	1080.9	1160.6	1315.3	1481.4	1620.3	1713.6	1752.2	1775.0	1790.9
12.5°	1055.9	1046.8	1040.0	1051.3	1151.5	1365.4	1608.9	1788.7	1861.5	1886.5	1907.0
15°	1126.4	1117.3	1092.3	1060.5	1071.8	1242.5	1570.2	1859.2	1975.3	2016.2	2059.5
17.5°	1167.4	1158.3	1137.8	1103.7	1074.1	1140.1	1497.4	1922.9	2155.0	2205.1	2266.5
20°	1190.2	1181.1	1160.6	1126.4	1092.3	1101.4	1404.1	2002.6	2359.8	2439.5	2530.5
22.5°	1194.7	1183.3	1160.6	1126.4	1106.0	1099.1	1315.3	2050.4	2580.6	2703.5	2808.1
25°	1192.4	1172.0	1142.4	1117.3	1106.0	1103.7	1253.9	2077.7	2819.5	3015.2	3133.6
27.5°	1176.5	1151.5	1121.9	1103.7	1099.1	1112.8	1226.6	2109.5	3099.4	3349.8	3538.6
30°	1158.3	1121.9	1085.5	1078.7	1090.0	1133.3	1249.3	2120.9	3393.0	3713.9	3907.3
32.5°	1110.5	1083.2	1046.8	1044.5	1071.8	1149.2	1301.7	2105.0	3652.4	4078.0	4321.5
35°	1042.2	1026.3	1005.8	1012.7	1055.9	1162.9	1338.1	2054.9	3889.1	4417.0	4701.5
37.5°	921.6	933.0	944.4	960.3	1014.9	1160.6	1354.0	1975.3	4084.8	4687.8	5051.9
40°	787.4	826.1	862.5	903.4	976.3	1142.4	1358.6	1877.4	4198.6	4892.6	5363.7
42.5°	703.2	739.6	785.1	844.3	923.9	1101.4	1354.0	1768.2	4235.0	5033.7	5561.7
45°	625.8	669.0	725.9	787.4	878.4	1042.2	1313.0	1649.8	4253.2	5099.7	5645.9
47.5°	584.8	609.9	662.2	723.7	819.2	969.4	1233.4	1563.4	4225.9	5113.4	5748.3
50°	537.1	571.2	605.3	664.5	757.8	878.4	1137.8	1513.3	4271.4	5247.6	5909.9
52.5°	500.6	518.8	555.3	609.9	678.1	794.2	1046.8	1472.3	4396.6	5384.2	6078.3
55°	473.3	493.8	516.6	562.1	614.4	710.0	953.5	1410.9	4542.2	5529.8	6246.7
57.5°	430.1	443.8	475.6	523.4	557.5	628.1	844.3	1338.1	4530.8	5416.0	5955.4
60°	*391.4*	*405.1*	*439.2*	*487.0*	*507.5*	*555.3*	*737.3*	*1244.8*	*4312.4*	*5045.1*	*5418.3*
62.5°	348.2	364.1	405.1	439.2	457.4	493.8	625.8	1074.1	3857.2	4487.6	4790.2
65°	330.0	339.1	366.4	407.3	405.1	439.2	528.0	844.3	3104.0	3429.4	3704.8
67.5°	350.4	364.1	359.6	370.9	364.1	382.3	473.3	678.1	2439.5	2582.9	2742.2
70°	345.9	377.8	393.7	370.9	318.6	339.1	409.6	541.6	1745.4	1731.8	1724.9
72.5°	302.7	334.5	380.0	402.8	311.8	282.2	355.0	468.8	1119.6	1115.1	1008.1
75°	257.1	279.9	334.5	364.1	268.5	227.6	304.9	398.2	669.0	678.1	605.3
77.5°	236.7	225.3	279.9	320.9	218.5	175.2	245.8	300.4	368.7	373.2	345.9
80°	170.7	163.8	209.4	234.4	166.1	125.2	138.8	186.6	198.0	177.5	184.3
82.5°	109.2	111.5	125.2	150.2	102.4	68.3	95.6	125.2	107.0	86.5	102.4
85°	70.5	79.6	66.0	77.4	31.9	31.9	41.0	54.6	36.4	25.0	27.3
87.5°	0.0	0.0	4.6	9.1	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

REPORT NUMBER: P1501570
CATALOG NUMBER: GSS-SB2B-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1606.6	1606.6	*1606.6*	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1613.4	1611.2	*1611.2*	1615.7	1627.1	1631.6	1638.5	1636.2	1643.0	1638.5
5°	1645.3	1647.6	*1654.4*	1656.7	1663.5	1672.6	1674.9	1672.6	1677.2	1677.2
7.5°	1709.0	1718.1	*1713.6*	1724.9	1715.8	1704.5	1686.3	1672.6	1661.2	1665.8
10°	1816.0	1811.4	*1809.1*	1788.7	1747.7	1688.5	1640.7	1588.4	1579.3	1570.2
12.5°	1934.3	1929.7	*1929.7*	1859.2	1743.1	1620.3	1511.0	1429.1	1401.8	1399.5
15°	2100.4	2070.8	*2043.5*	1895.6	1663.5	1454.1	1326.7	1263.0	1247.1	1247.1
17.5°	2307.5	2230.1	*2184.6*	1868.3	1533.8	1344.9	1269.8	1253.9	1249.3	1260.7
20°	2564.7	2368.9	*2303.0*	1806.9	1486.0	1358.6	1322.2	1324.4	1326.7	1342.6
22.5°	2846.8	2496.4	*2387.2*	1806.9	1533.8	1445.0	1426.8	1451.9	1458.7	1472.3
25°	3160.9	2610.2	*2462.3*	1902.4	1674.9	1608.9	1586.1	1611.2	1629.4	1652.1
27.5°	3513.6	2728.5	*2592.0*	2075.4	1856.9	1816.0	1790.9	1802.3	1827.3	1854.7
30°	3829.9	2926.5	*2789.9*	2339.4	2105.0	2054.9	2011.7	2029.9	2057.2	2075.4
32.5°	4109.8	3167.7	*3051.6*	2617.0	2389.4	2303.0	2255.2	2250.6	2305.2	2291.6
35°	4367.0	3452.2	*3340.7*	2933.3	2678.4	2571.5	2507.8	2589.7	2553.3	2566.9
37.5°	4569.5	3748.0	*3659.2*	3236.0	2978.8	2833.2	2794.5	2894.6	2951.5	2967.4
40°	4735.6	4005.1	*3911.8*	3536.4	3254.2	3147.2	3208.7	3374.8	3368.0	3361.1
42.5°	4863.1	4225.9	*4123.5*	3763.9	3518.2	3538.6	3586.4	3697.9	3725.2	3686.5
45°	4920.0	4364.7	*4282.8*	3943.7	3818.5	3936.9	3957.4	4005.1	3986.9	3961.9
47.5°	4985.9	4487.6	*4401.1*	4107.5	4144.0	4260.0	4219.1	4180.4	4114.4	4075.7
50°	5097.5	4633.2	*4560.4*	4346.5	4478.5	4439.8	4280.5	4194.0	4059.8	4014.2
52.5°	5309.1	4908.6	*4854.0*	4724.2	4635.5	4412.5	4219.1	4064.3	3914.1	3852.7
55°	5498.0	5281.8	*5249.9*	5077.0	4587.7	4269.1	4009.7	3770.7	3513.6	3461.3
57.5°	5607.2	5900.8	*5937.2*	5227.2	4369.2	3943.7	3561.4	3179.1	2935.6	2892.3
60°	*5281.8*	*6569.8*	*6588.0*	*5197.6*	*3975.6*	*3356.6*	*2774.0*	*2503.2*	*2241.5*	*2166.4*
62.5°	4833.5	6431.0	*6415.1*	5020.1	3165.4	2448.6	2107.3	1979.8	1777.3	1715.8
65°	4155.3	5356.9	*5375.1*	4337.4	2105.0	1770.5	1770.5	1608.9	1383.6	1340.4
67.5°	3386.2	4130.3	*4089.3*	2812.7	1292.6	1417.7	1486.0	1253.9	937.6	885.2
70°	2200.6	3154.0	*3097.2*	1622.5	812.4	1181.1	1169.7	942.1	671.3	634.9
72.5°	946.7	1822.8	*1938.9*	828.3	612.1	951.2	933.0	659.9	448.3	432.4
75°	571.2	917.1	*999.0*	528.0	446.0	716.8	646.3	418.7	304.9	293.6
77.5°	361.8	502.9	*498.4*	396.0	334.5	484.7	434.6	289.0	207.1	198.0
80°	209.4	248.0	*257.1*	248.0	225.3	345.9	277.6	209.4	161.6	150.2
82.5°	134.3	154.7	*157.0*	120.6	125.2	223.0	150.2	122.9	93.3	84.2
85°	59.2	66.0	*63.7*	41.0	41.0	91.0	52.3	50.1	36.4	36.4
87.5°	2.3	4.6	*2.3*	2.3	2.3	9.1	4.6	6.8	6.8	6.8
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

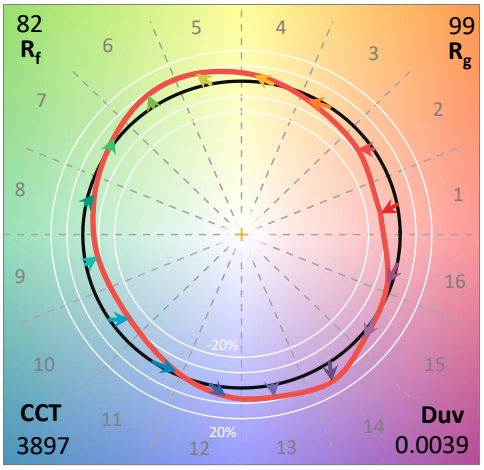
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

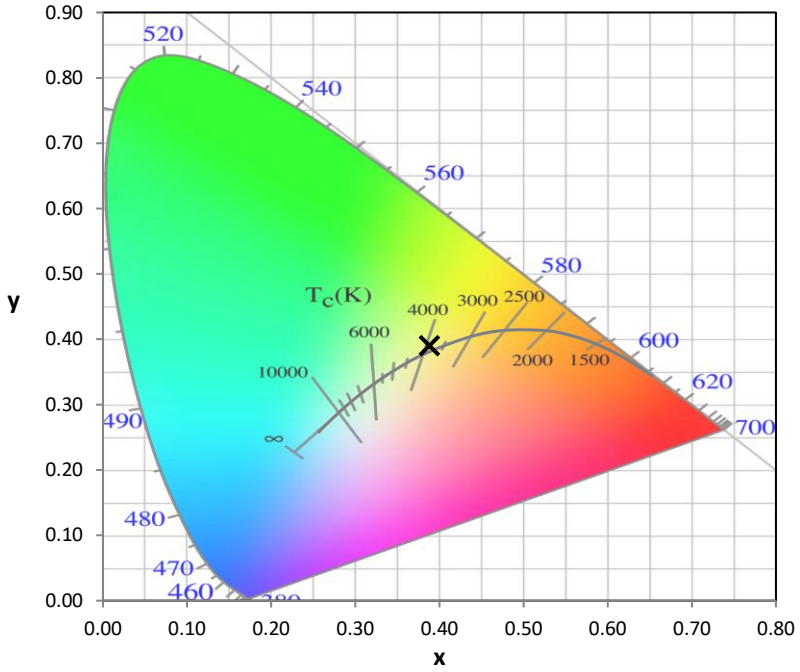
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

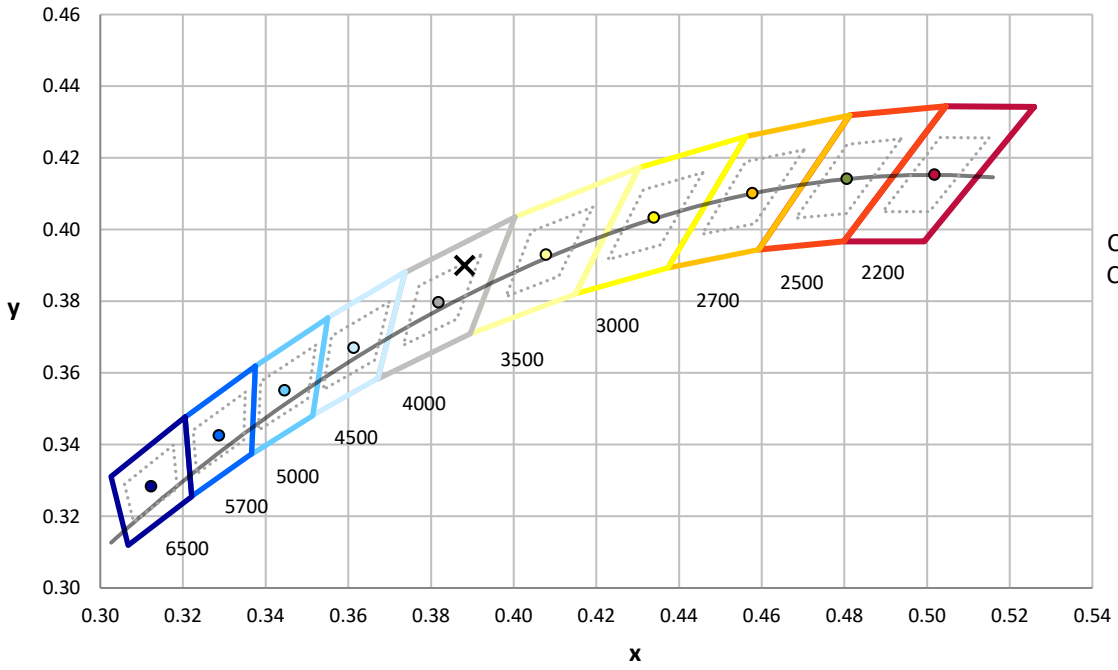
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

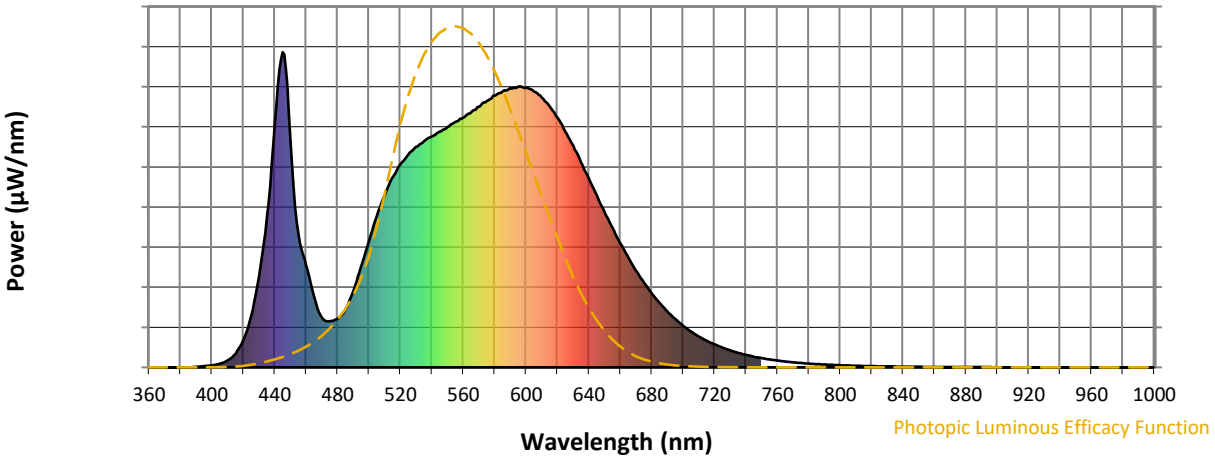


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

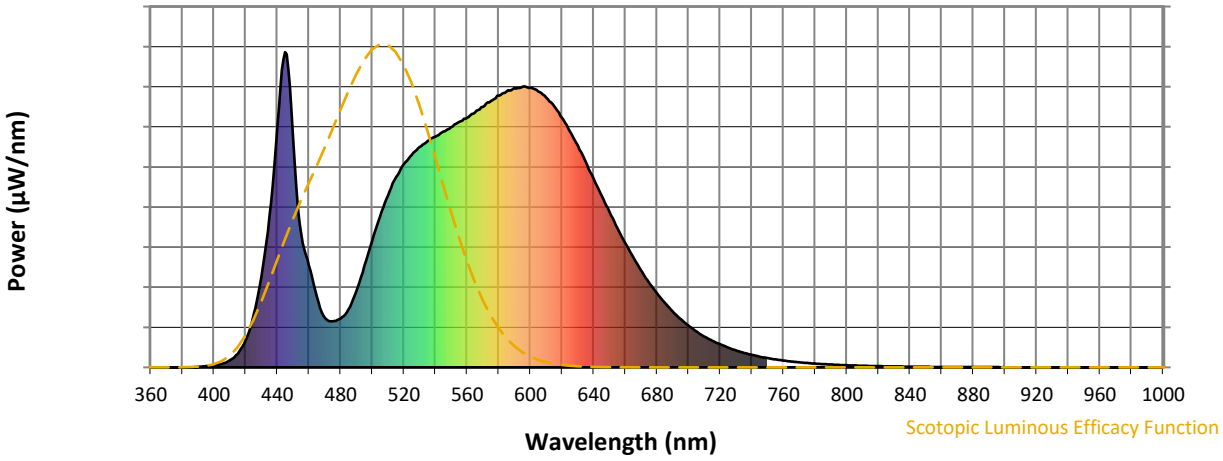


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

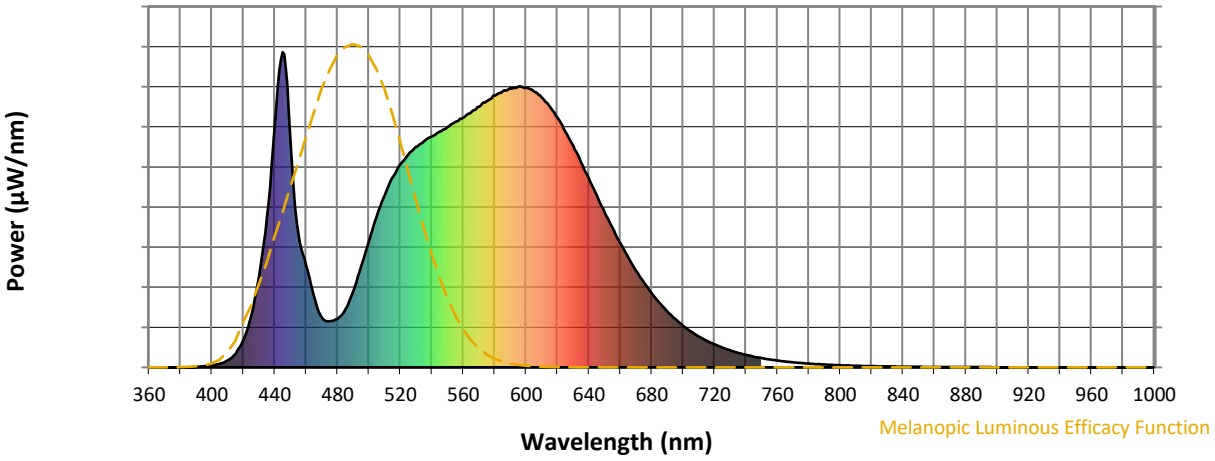


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

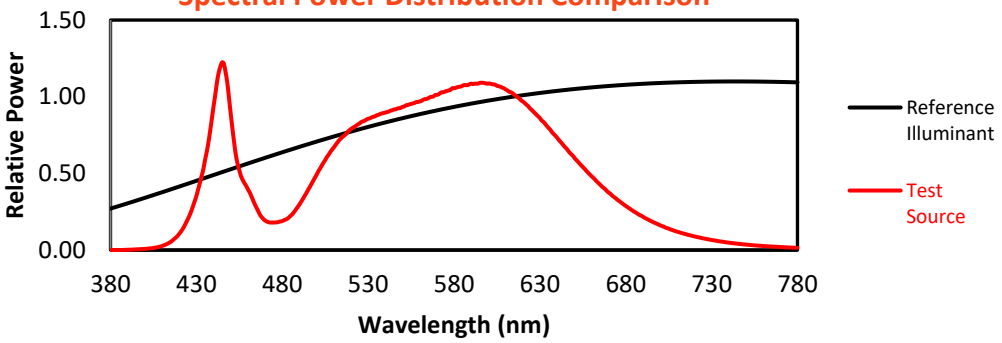
REPORT NUMBER: SP1-2407-184-11

TM-30-18

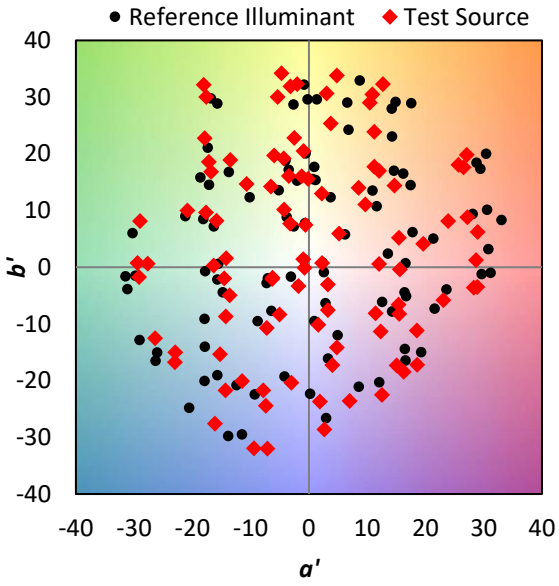
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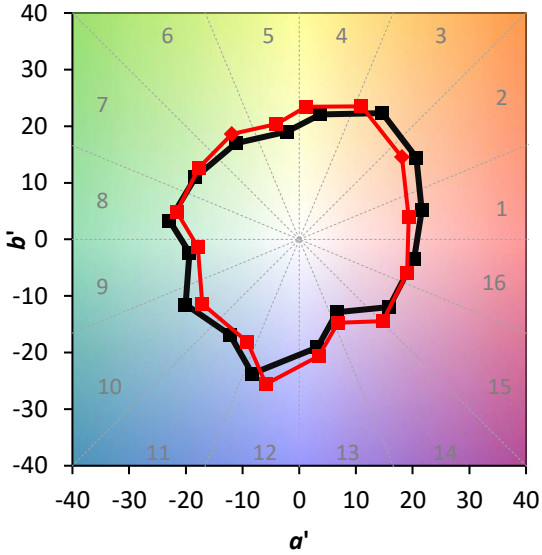
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

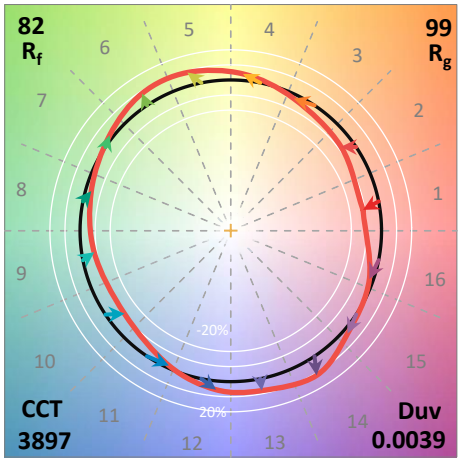
Spectral Power Distribution Comparison

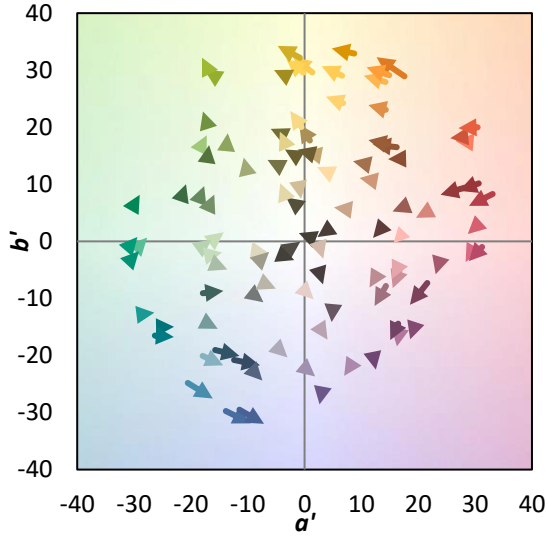


Color Vector Graphics







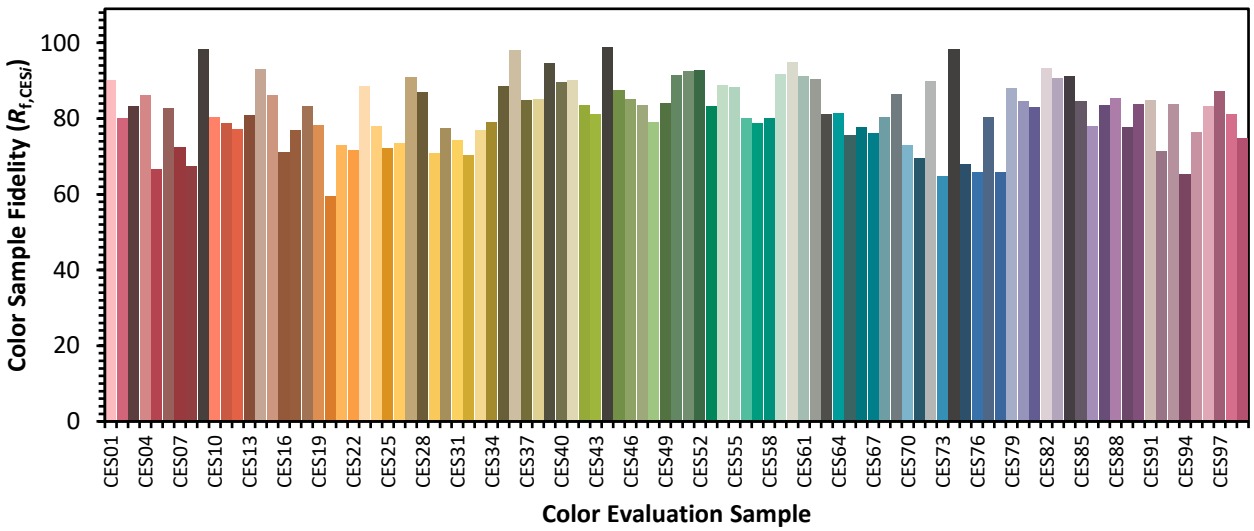


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Individual Sample Fidelity Index ($R_{f,i}$)

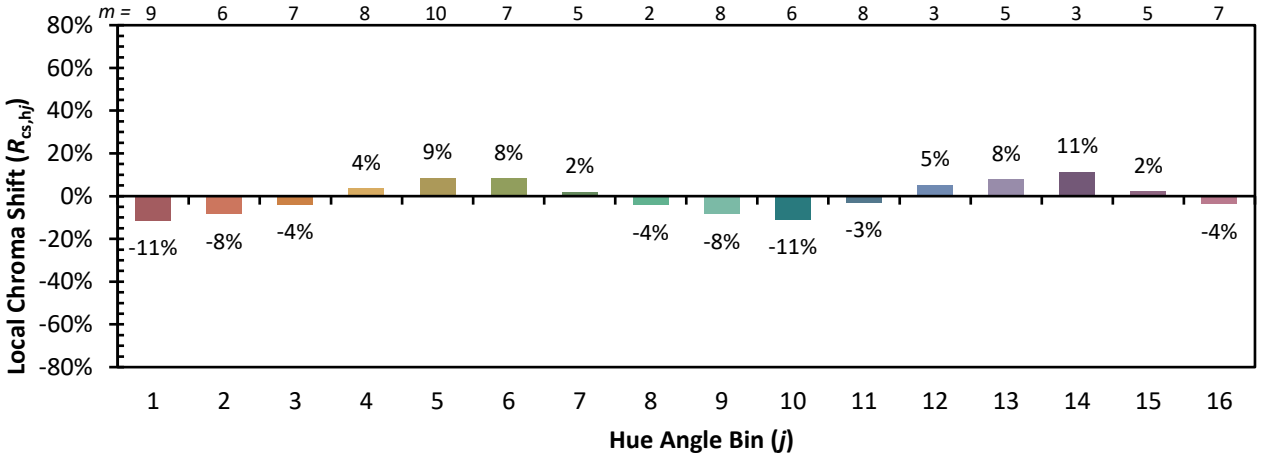
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

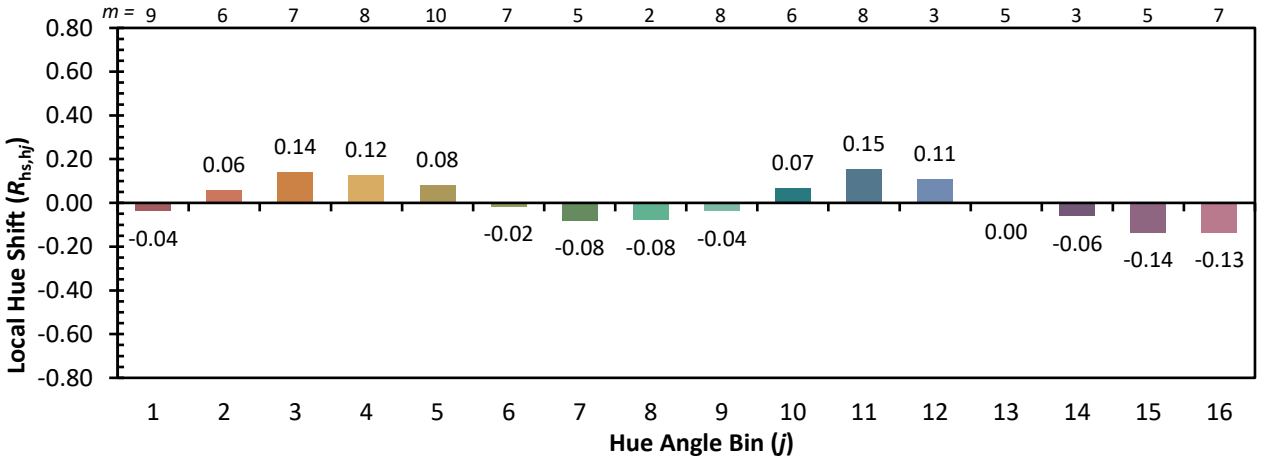


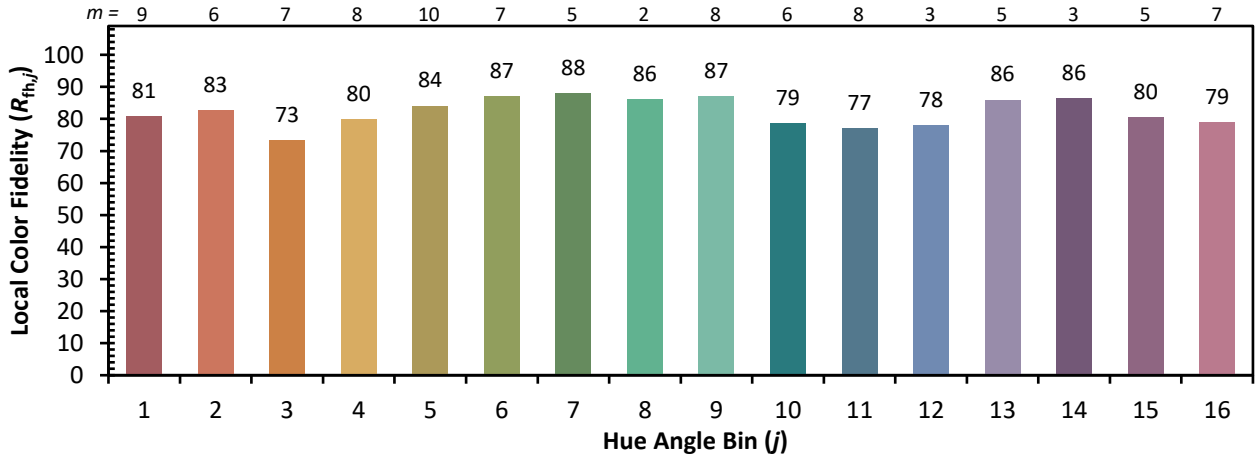
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Color Rendition by Hue-Angle Bin



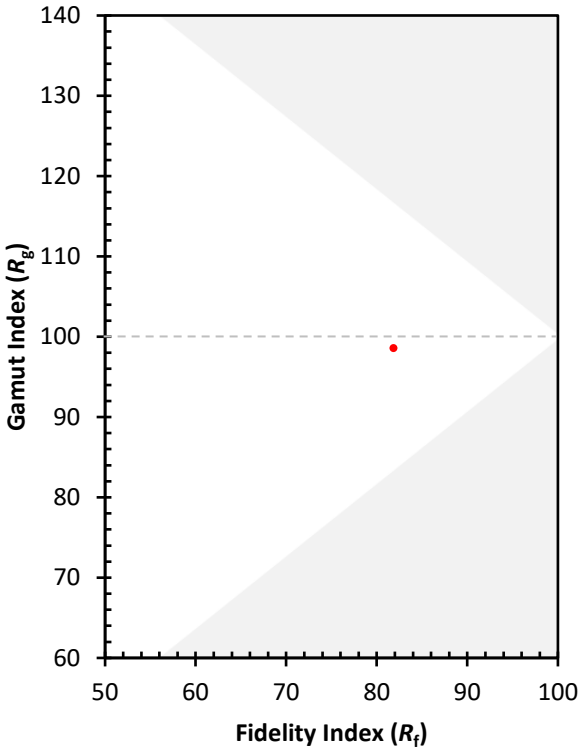


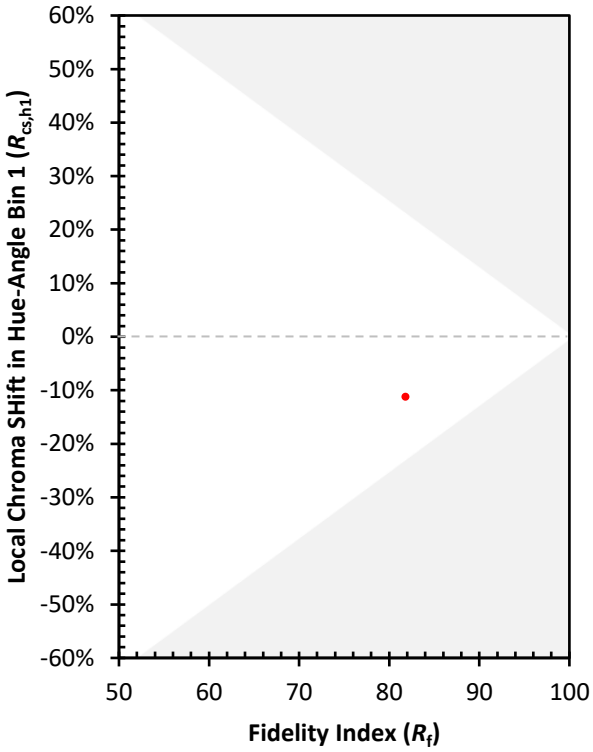


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Measure Comparisons





(END OF REPORT)