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: P1501328

Luminaire Tested: GSS-SB1D-740-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501328
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1D-740-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 76W 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(26) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9805.7 lumens
Efficiency:	N/A
Efficacy:	129.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

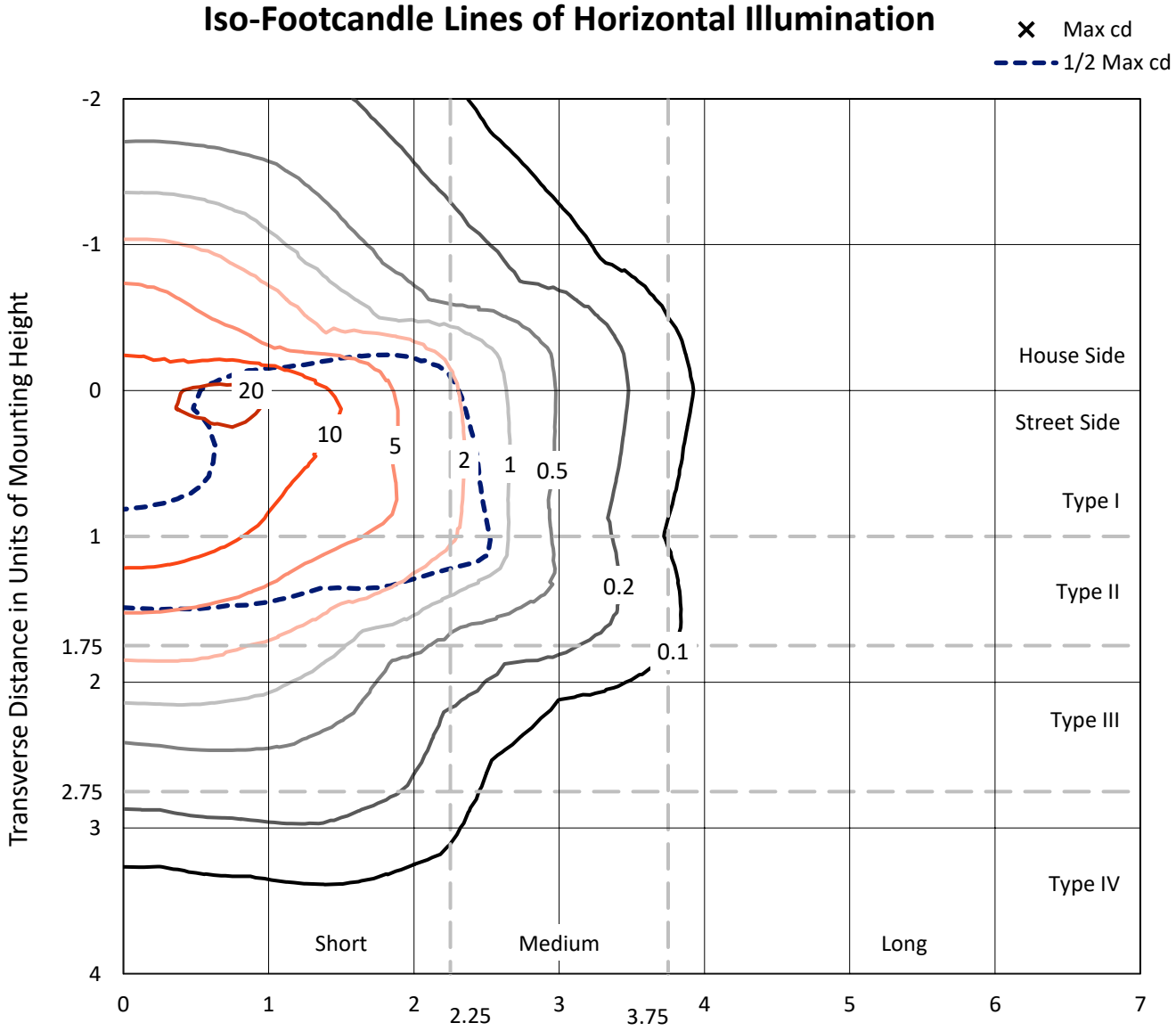
Input Watts (W):	76
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



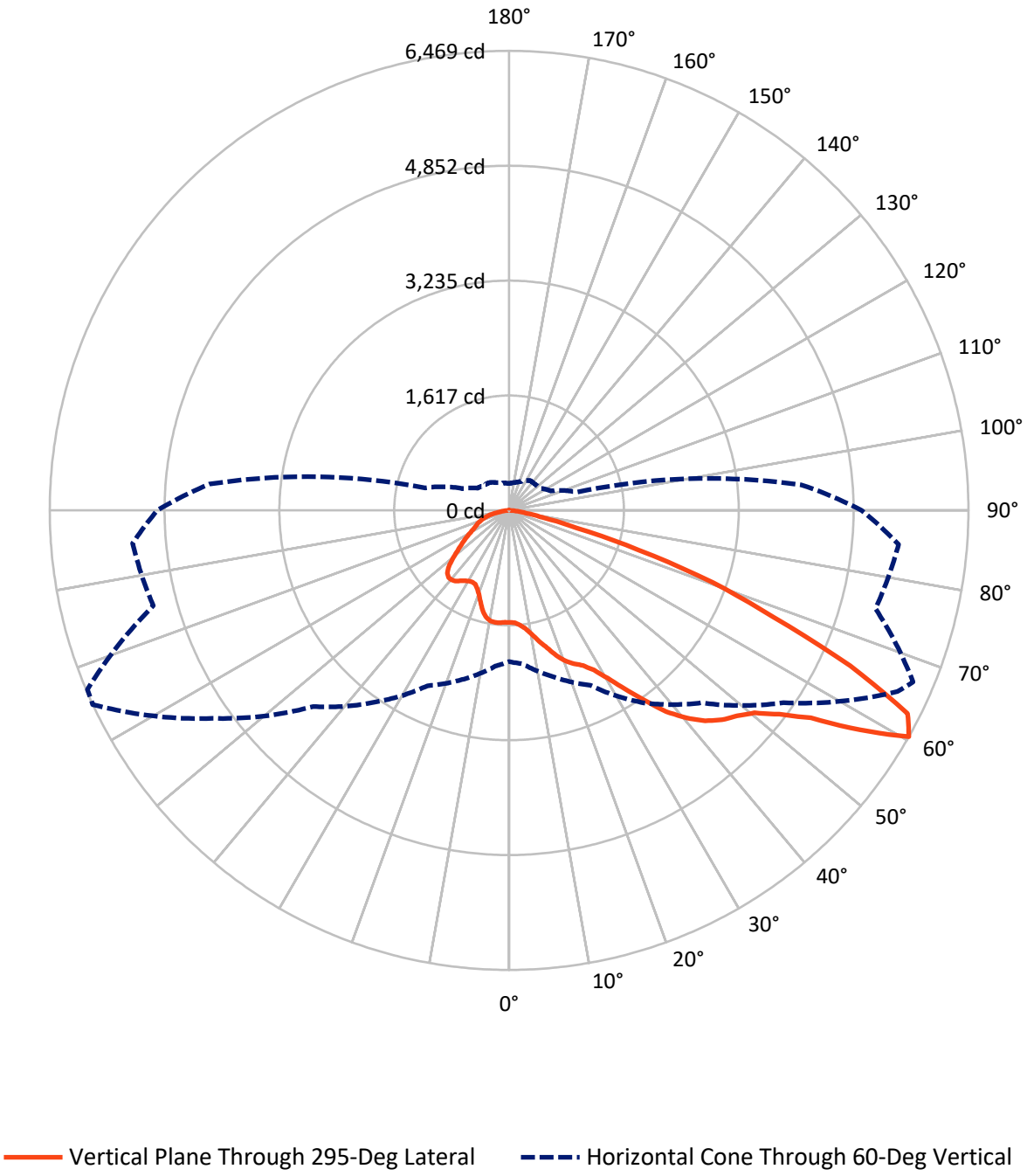
Based on 10 foot mounting height. Maximum calculated value = 23.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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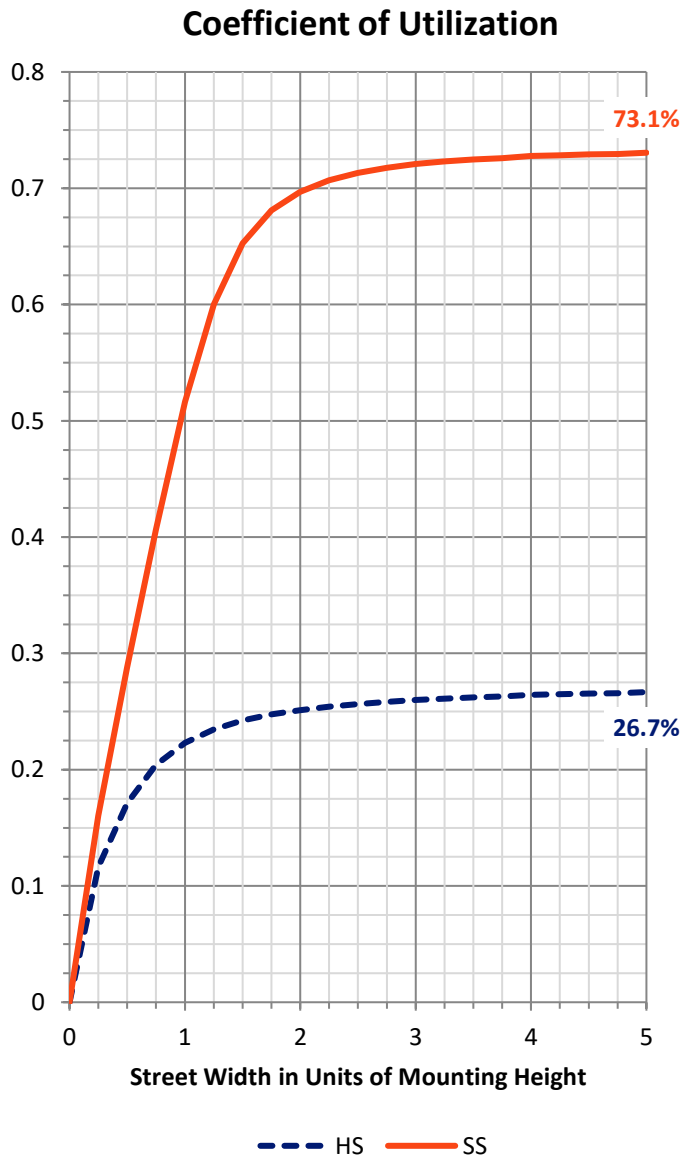
REPORT NUMBER: P1501328
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2636.9	0.0	2636.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7168.8	0.0	7168.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	9805.7	0.0	9805.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.5
10°-20°	426.4	4.3
20°-30°	807.7	8.2
30°-40°	1424.0	14.5
40°-50°	2105.9	21.5
50°-60°	2472.9	25.2
60°-70°	1791.7	18.3
70°-80°	552.6	5.6
80°-90°	76.1	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°	9805.7	100.0
0°-180°	9805.7	100.0



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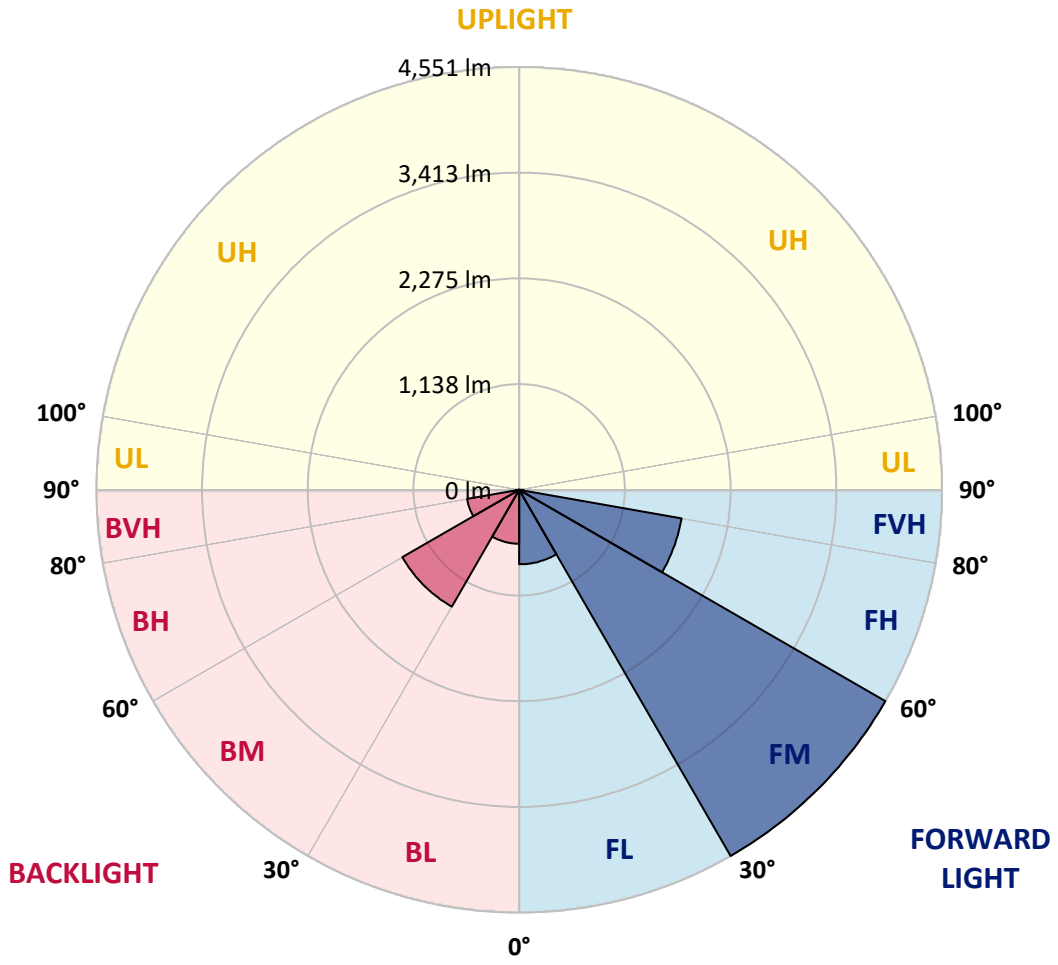
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	801.8	8.2			
FM	(30°-60°)	4550.9	46.4			
FH	(60°-80°)	1775.1	18.1			G1/1800
FVH	(80°-90°)	41.0	0.4			G1/100
BL	(0°-30°)	580.7	5.9	B2/1000		
BM	(30°-60°)	1451.9	14.8	B2/2500		
BH	(60°-80°)	569.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	35.0	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°	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7
2.5°	1609.0	1613.4	1606.7	1611.2	1611.2	1604.5	1602.3	1593.3	1597.8	1595.6	1593.3
5°	1647.0	1649.2	1644.7	1651.4	1651.4	1653.7	1651.4	1640.3	1640.3	1640.3	1635.8
7.5°	1635.8	1635.8	1638.0	1660.4	1682.7	1711.8	1711.8	1707.3	1711.8	1709.5	1689.4
10°	1541.9	1550.9	1571.0	1626.8	1680.5	1743.1	1785.5	1798.9	1798.9	1801.2	1767.6
12.5°	1374.3	1381.0	1428.0	1512.9	1624.6	1738.6	1841.4	1908.4	1915.1	1926.3	1881.6
15°	1224.6	1229.1	1262.6	1349.7	1477.1	1678.2	1872.7	2011.2	2033.6	2080.5	2013.4
17.5°	1238.0	1235.8	1244.7	1278.2	1369.9	1579.9	1866.0	2131.9	2172.1	2254.8	2196.7
20°	1318.5	1318.5	1325.2	1331.9	1365.4	1508.4	1816.8	2230.2	2308.4	2469.3	2402.3
22.5°	1445.8	1445.8	1443.6	1454.8	1454.8	1539.7	1819.0	2304.0	2420.2	2708.4	2643.6
25°	1622.4	1613.4	1613.4	1617.9	1597.8	1658.1	1874.9	2379.9	2531.9	2992.2	2936.4
27.5°	1821.3	1828.0	1823.5	1807.9	1781.0	1828.0	2009.0	2498.4	2657.0	3291.7	3269.3
30°	2038.0	2040.3	2044.7	2035.8	2013.4	2047.0	2219.0	2677.1	2822.4	3604.5	3653.7
32.5°	2250.3	2281.6	2270.4	2248.1	2257.0	2317.4	2478.3	2918.5	3068.2	3895.1	4069.4
35°	2520.7	2531.9	2576.6	2493.9	2496.1	2598.9	2809.0	3235.8	3381.1	4196.7	4485.0
37.5°	2914.0	2934.1	2914.0	2784.4	2764.3	2907.3	3130.8	3548.7	3653.7	4424.7	4871.6
40°	3300.6	3325.2	3358.7	3206.8	3079.4	3197.8	3434.7	3787.8	3897.3	4549.8	5128.6
42.5°	3620.2	3660.4	3624.7	3580.0	3463.8	3486.1	3647.0	3973.3	4082.8	4708.5	5387.8
45°	3890.6	3897.3	3912.9	3881.6	3823.5	3803.4	3828.0	4136.4	4257.1	4780.0	5515.2
47.5°	4002.3	4031.4	4044.8	4098.4	4158.7	4118.5	3982.2	4212.4	4321.9	4775.5	5555.4
50°	3942.0	3971.0	4042.5	4169.9	4315.2	4386.7	4163.2	4317.4	4440.3	4856.0	5638.1
52.5°	3783.3	3814.6	3930.8	4076.1	4319.6	4482.8	4418.0	4536.4	4654.8	4999.0	5776.7
55°	3399.0	3445.9	3609.0	3850.4	4185.6	4431.4	4686.1	4858.2	4987.8	5171.1	5919.7
57.5°	2840.3	2889.4	3072.7	3434.7	3937.5	4219.1	4764.3	5461.6	5519.7	5376.6	5933.1
60°	*2127.4*	*2167.6*	*2426.9*	*2717.4*	*3307.3*	*3830.2*	*4719.6*	*6033.6*	*6181.1*	*5340.9*	*5506.3*
62.5°	1685.0	1734.1	1964.3	2098.4	2520.7	3164.3	4563.2	6192.3	6319.7	5045.9	4911.8
65°	1316.2	1349.7	1564.3	1756.5	1859.3	2160.9	3910.7	5416.9	5530.8	4565.5	4053.7
67.5°	869.3	920.7	1175.4	1439.1	1492.8	1374.3	2690.6	4167.7	4221.3	3629.1	3048.1
70°	623.5	648.1	838.0	1119.6	1200.0	920.7	1466.0	3155.4	3171.0	2435.8	2053.7
72.5°	424.6	429.1	569.8	858.1	956.4	668.2	806.7	2078.3	2024.6	1202.3	1175.4
75°	288.3	292.7	364.3	572.1	677.1	464.8	525.2	1133.0	1088.3	663.7	712.9
77.5°	194.4	198.9	250.3	384.4	451.4	321.8	384.4	598.9	587.7	440.2	382.1
80°	147.5	154.2	185.5	245.8	315.1	187.7	219.0	283.8	288.3	234.6	194.4
82.5°	82.7	91.6	111.7	125.1	203.4	105.0	105.0	169.8	163.1	145.3	105.0
85°	35.8	38.0	44.7	46.9	82.7	44.7	38.0	73.7	76.0	71.5	33.5
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.9	8.9	8.9	8.9
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°	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7
2.5°	1582.2	1595.6	1582.2	1575.5	1575.5	1564.3	1559.8	1559.8	1544.2	1550.9	1546.4
5°	1617.9	1622.4	1606.7	1586.6	1559.8	1537.5	1506.2	1466.0	1441.4	1439.1	1441.4
7.5°	1673.8	1676.0	1633.6	1588.9	1521.8	1441.4	1345.3	1267.1	1197.8	1186.6	1200.0
10°	1752.0	1747.5	1685.0	1579.9	1439.1	1269.3	1121.8	1050.3	1010.1	1007.8	1005.6
12.5°	1857.0	1828.0	1731.9	1541.9	1296.1	1099.5	1023.5	1019.0	1030.2	1039.1	1041.4
15°	1977.7	1939.7	1769.9	1468.2	1150.9	1036.9	1041.4	1079.4	1092.8	1101.7	1101.7
17.5°	2127.4	2078.3	1812.3	1363.2	1077.1	1050.3	1081.6	1117.3	1139.7	1148.6	1146.4
20°	2326.3	2223.5	1845.8	1262.6	1057.0	1072.6	1099.5	1135.2	1157.6	1168.7	1168.7
22.5°	2525.2	2397.8	1852.6	1193.3	1057.0	1074.9	1099.5	1135.2	1159.8	1171.0	1168.7
25°	2795.6	2621.3	1854.8	1144.2	1059.2	1063.7	1086.1	1117.3	1153.1	1164.3	1168.7
27.5°	3083.9	2867.1	1866.0	1133.0	1050.3	1048.1	1063.7	1092.8	1128.5	1157.6	1159.8
30°	3441.4	3144.2	1870.4	1144.2	1052.5	1023.5	1034.7	1063.7	1101.7	1130.7	1139.7
32.5°	3792.3	3401.2	1861.5	1168.7	1057.0	1007.8	1010.1	1028.0	1068.2	1088.3	1103.9
35°	4163.2	3673.8	1845.8	1202.3	1059.2	1001.1	981.0	990.0	1016.8	1019.0	1025.7
37.5°	4453.7	3877.2	1798.9	1247.0	1063.7	976.6	936.3	929.6	918.5	896.1	900.6
40°	4692.8	4013.5	1720.7	1269.3	1052.5	947.5	880.5	849.2	806.7	773.2	779.9
42.5°	4864.9	4105.1	1626.8	1273.8	1034.7	898.3	815.7	762.0	715.1	679.3	681.6
45°	4940.9	4096.2	1526.3	1240.2	992.2	838.0	755.3	703.9	652.5	614.5	610.1
47.5°	4943.1	4009.0	1387.7	1159.8	920.7	768.7	699.5	643.6	601.1	574.3	572.1
50°	4961.0	3959.9	1258.1	1043.6	826.8	695.0	650.3	594.4	569.8	531.9	520.7
52.5°	5072.7	4040.3	1168.7	916.2	739.7	641.4	607.8	558.7	518.4	493.9	491.6
55°	5253.7	4178.9	1119.6	820.1	657.0	590.0	567.6	525.2	489.4	464.8	458.1
57.5°	5276.1	4250.4	1061.5	730.7	590.0	549.7	540.8	493.9	442.5	424.6	417.9
60°	*4963.2*	*4129.7*	*990.0*	*648.1*	*540.8*	*518.4*	*514.0*	*451.4*	*408.9*	*386.6*	*377.7*
62.5°	4536.4	3828.0	880.5	572.1	502.8	487.2	469.3	420.1	366.5	341.9	335.2
65°	3707.3	3217.9	748.6	520.7	464.8	446.9	442.5	375.4	339.7	326.3	324.0
67.5°	2809.0	2585.5	659.2	482.7	424.6	417.9	402.2	379.9	364.3	348.6	344.1
70°	1986.6	1866.0	560.9	433.5	384.4	373.2	438.0	413.4	357.5	337.4	335.2
72.5°	1204.5	1171.0	484.9	388.8	330.7	348.6	404.5	373.2	321.8	297.2	288.3
75°	759.8	695.0	406.7	330.7	263.7	283.8	353.1	333.0	277.1	252.5	245.8
77.5°	413.4	384.4	306.2	270.4	207.8	230.2	308.4	274.9	221.2	241.3	214.5
80°	181.0	201.1	203.4	156.4	138.6	169.8	221.2	214.5	169.8	172.1	143.0
82.5°	87.2	114.0	131.8	107.3	78.2	100.6	147.5	122.9	114.0	107.3	102.8
85°	26.8	42.5	58.1	51.4	35.8	42.5	69.3	67.0	80.4	69.3	64.8
87.5°	8.9	8.9	6.7	6.7	6.7	8.9	11.2	6.7	2.2	2.2	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°	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7
2.5°	1544.2	1546.4	1546.4	1548.6	1548.6	1555.3	1564.3	1573.2	1566.5	1575.5	1577.7
5°	1436.9	1448.1	1457.0	1490.5	1517.3	1539.7	1564.3	1586.6	1593.3	1597.8	1609.0
7.5°	1184.4	1215.7	1273.8	1349.7	1434.7	1517.3	1573.2	1631.3	1640.3	1651.4	1667.1
10°	1007.8	1021.2	1061.5	1139.7	1291.6	1454.8	1591.1	1682.7	1720.7	1743.1	1758.7
12.5°	1036.9	1028.0	1021.2	1032.4	1130.7	1340.8	1579.9	1756.5	1828.0	1852.6	1872.7
15°	1106.2	1097.2	1072.6	1041.4	1052.5	1220.1	1541.9	1825.7	1939.7	1979.9	2022.4
17.5°	1146.4	1137.5	1117.3	1083.8	1054.8	1119.6	1470.4	1888.3	2116.2	2165.4	2225.7
20°	1168.7	1159.8	1139.7	1106.2	1072.6	1081.6	1378.8	1966.5	2317.4	2395.6	2485.0
22.5°	1173.2	1162.0	1139.7	1106.2	1086.1	1079.4	1291.6	2013.4	2534.1	2654.8	2757.6
25°	1171.0	1150.9	1121.8	1097.2	1086.1	1083.8	1231.3	2040.3	2768.8	2961.0	3077.2
27.5°	1155.3	1130.7	1101.7	1083.8	1079.4	1092.8	1204.5	2071.6	3043.6	3289.5	3474.9
30°	1137.5	1101.7	1065.9	1059.2	1070.4	1112.9	1226.8	2082.7	3331.9	3647.0	3836.9
32.5°	1090.5	1063.7	1028.0	1025.7	1052.5	1128.5	1278.2	2067.1	3586.7	4004.6	4243.7
35°	1023.5	1007.8	987.7	994.4	1036.9	1141.9	1314.0	2017.9	3819.1	4337.5	4616.9
37.5°	905.0	916.2	927.4	943.0	996.7	1139.7	1329.6	1939.7	4011.3	4603.4	4961.0
40°	773.2	811.2	846.9	887.2	958.7	1121.8	1334.1	1843.6	4123.0	4804.6	5267.1
42.5°	690.5	726.3	771.0	829.1	907.3	1081.6	1329.6	1736.3	4158.7	4943.1	5461.6
45°	614.5	657.0	712.9	773.2	862.6	1023.5	1289.4	1620.1	4176.6	5007.9	5544.2
47.5°	574.3	598.9	650.3	710.6	804.5	952.0	1211.2	1535.2	4149.8	5021.3	5644.8
50°	527.4	560.9	594.4	652.5	744.1	862.6	1117.3	1486.1	4194.5	5153.2	5803.5
52.5°	491.6	509.5	545.3	598.9	665.9	779.9	1028.0	1445.8	4317.4	5287.3	5968.8
55°	464.8	484.9	507.3	552.0	603.4	697.2	936.3	1385.5	4460.4	5430.3	6134.2
57.5°	422.4	435.8	467.0	514.0	547.5	616.8	829.1	1314.0	4449.3	5318.5	5848.2
60°	*384.4*	*397.8*	*431.3*	*478.2*	*498.3*	*545.3*	*724.0*	*1222.4*	*4234.7*	*4954.3*	*5320.8*
62.5°	341.9	357.5	397.8	431.3	449.2	484.9	614.5	1054.8	3787.8	4406.8	4704.0
65°	324.0	333.0	359.8	400.0	397.8	431.3	518.4	829.1	3048.1	3367.7	3638.1
67.5°	344.1	357.5	353.1	364.3	357.5	375.4	464.8	665.9	2395.6	2536.4	2692.8
70°	339.7	371.0	386.6	364.3	312.9	333.0	402.2	531.9	1714.0	1700.6	1693.9
72.5°	297.2	328.5	373.2	395.5	306.2	277.1	348.6	460.3	1099.5	1095.0	990.0
75°	252.5	274.9	328.5	357.5	263.7	223.5	299.4	391.1	657.0	665.9	594.4
77.5°	232.4	221.2	274.9	315.1	214.5	172.1	241.3	295.0	362.0	366.5	339.7
80°	167.6	160.9	205.6	230.2	163.1	122.9	136.3	183.2	194.4	174.3	181.0
82.5°	107.3	109.5	122.9	147.5	100.6	67.0	93.9	122.9	105.0	84.9	100.6
85°	69.3	78.2	64.8	76.0	31.3	31.3	40.2	53.6	35.8	24.6	26.8
87.5°	0.0	0.0	4.5	8.9	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: P1501328
CATALOG NUMBER: GSS-SB1D-740-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1577.7	1577.7	*1577.7*	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7
2.5°	1584.4	1582.2	*1582.2*	1586.6	1597.8	1602.3	1609.0	1606.7	1613.4	1609.0
5°	1615.7	1617.9	*1624.6*	1626.8	1633.6	1642.5	1644.7	1642.5	1647.0	1647.0
7.5°	1678.2	1687.2	*1682.7*	1693.9	1685.0	1673.8	1655.9	1642.5	1631.3	1635.8
10°	1783.3	1778.8	*1776.6*	1756.5	1716.2	1658.1	1611.2	1559.8	1550.9	1541.9
12.5°	1899.5	1895.0	*1895.0*	1825.7	1711.8	1591.1	1483.8	1403.4	1376.6	1374.3
15°	2062.6	2033.6	*2006.7*	1861.5	1633.6	1428.0	1302.8	1240.2	1224.6	1224.6
17.5°	2266.0	2190.0	*2145.3*	1834.7	1506.2	1320.7	1247.0	1231.3	1226.8	1238.0
20°	2518.5	2326.3	*2261.5*	1774.3	1459.2	1334.1	1298.4	1300.6	1302.8	1318.5
22.5°	2795.6	2451.4	*2344.2*	1774.3	1506.2	1419.0	1401.1	1425.7	1432.4	1445.8
25°	3104.0	2563.2	*2417.9*	1868.2	1644.7	1579.9	1557.6	1582.2	1600.0	1622.4
27.5°	3450.3	2679.4	*2545.3*	2038.0	1823.5	1783.3	1758.7	1769.9	1794.4	1821.3
30°	3761.0	2873.8	*2739.7*	2297.3	2067.1	2017.9	1975.5	1993.3	2020.2	2038.0
32.5°	4035.8	3110.7	*2996.7*	2569.9	2346.4	2261.5	2214.6	2210.1	2263.7	2250.3
35°	4288.4	3390.0	*3280.5*	2880.5	2630.2	2525.2	2462.6	2543.1	2507.3	2520.7
37.5°	4487.2	3680.5	*3593.4*	3177.7	2925.2	2782.2	2744.2	2842.5	2898.4	2914.0
40°	4650.4	3933.0	*3841.4*	3472.7	3195.6	3090.6	3150.9	3314.0	3307.3	3300.6
42.5°	4775.5	4149.8	*4049.2*	3696.2	3454.8	3474.9	3521.9	3631.4	3658.2	3620.2
45°	4831.4	4286.1	*4205.7*	3872.7	3749.8	3866.0	3886.1	3933.0	3915.2	3890.6
47.5°	4896.2	4406.8	*4321.9*	4033.6	4069.4	4183.3	4143.1	4105.1	4040.3	4002.3
50°	5005.7	4549.8	*4478.3*	4268.2	4397.9	4359.9	4203.4	4118.5	3986.7	3942.0
52.5°	5213.5	4820.2	*4766.6*	4639.2	4552.0	4333.0	4143.1	3991.1	3843.7	3783.3
55°	5399.0	5186.7	*5155.4*	4985.6	4505.1	4192.3	3937.5	3702.9	3450.3	3399.0
57.5°	5506.3	5794.5	*5830.3*	5133.1	4290.6	3872.7	3497.3	3121.9	2882.7	2840.3
60°	*5186.7*	*6451.5*	*6469.4*	*5104.0*	*3904.0*	*3296.2*	*2724.1*	*2458.2*	*2201.2*	*2127.4*
62.5°	4746.5	6315.2	*6299.6*	4929.7	3108.4	2404.5	2069.3	1944.2	1745.3	1685.0
65°	4080.5	5260.4	*5278.3*	4259.3	2067.1	1738.6	1738.6	1579.9	1358.7	1316.2
67.5°	3325.2	4055.9	*4015.7*	2762.1	1269.3	1392.2	1459.2	1231.3	920.7	869.3
70°	2160.9	3097.3	*3041.4*	1593.3	797.8	1159.8	1148.6	925.2	659.2	623.5
72.5°	929.6	1790.0	*1903.9*	813.4	601.1	934.1	916.2	648.1	440.2	424.6
75°	560.9	900.6	*981.0*	518.4	438.0	703.9	634.6	411.2	299.4	288.3
77.5°	355.3	493.9	*489.4*	388.8	328.5	476.0	426.8	283.8	203.4	194.4
80°	205.6	243.6	*252.5*	243.6	221.2	339.7	272.6	205.6	158.7	147.5
82.5°	131.8	152.0	*154.2*	118.4	122.9	219.0	147.5	120.7	91.6	82.7
85°	58.1	64.8	*62.6*	40.2	40.2	89.4	51.4	49.2	35.8	35.8
87.5°	2.2	4.5	*2.2*	2.2	2.2	8.9	4.5	6.7	6.7	6.7
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

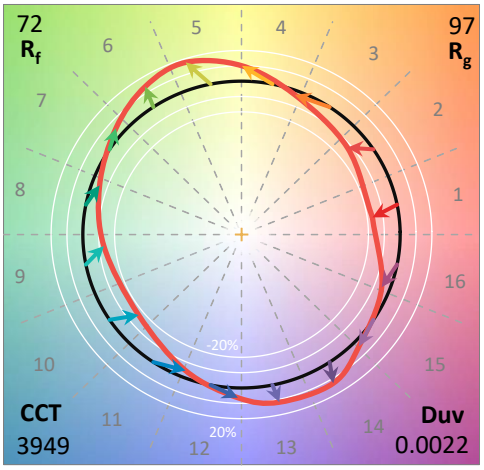
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

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

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



Test Conditions

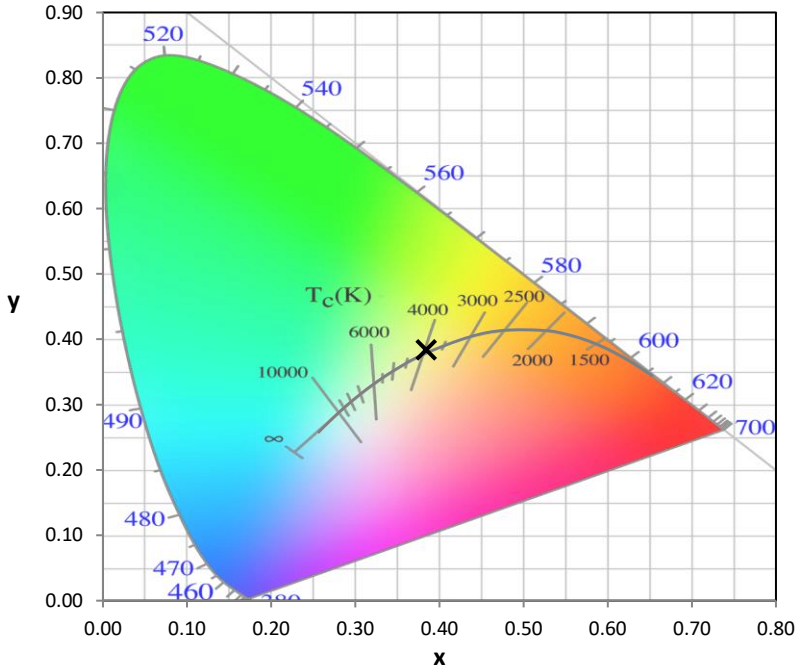
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

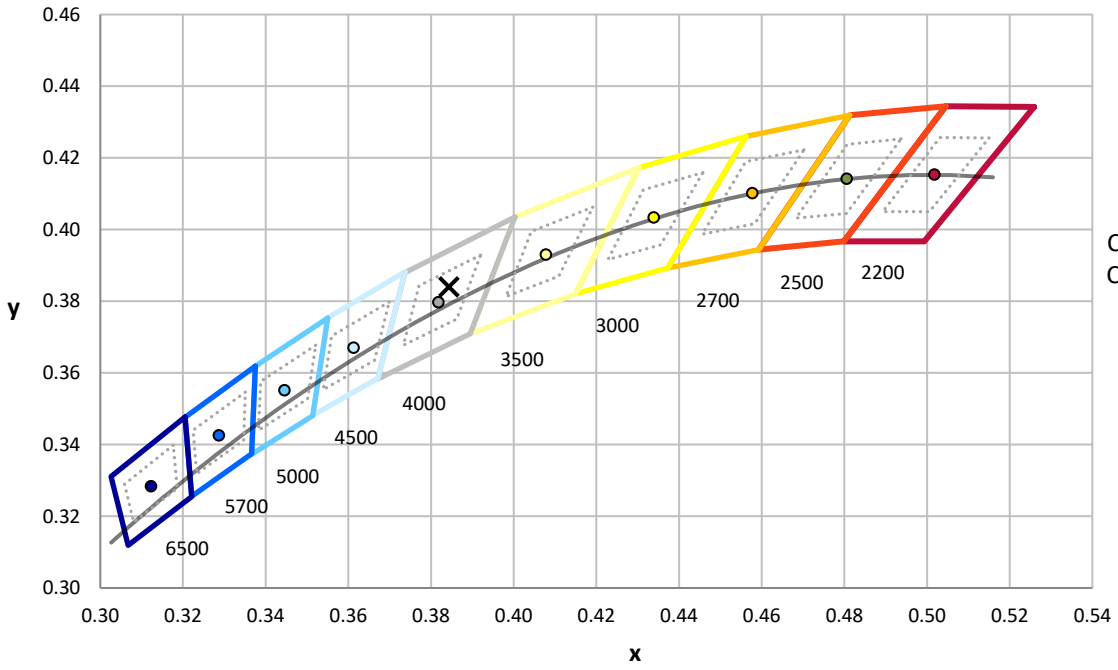
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

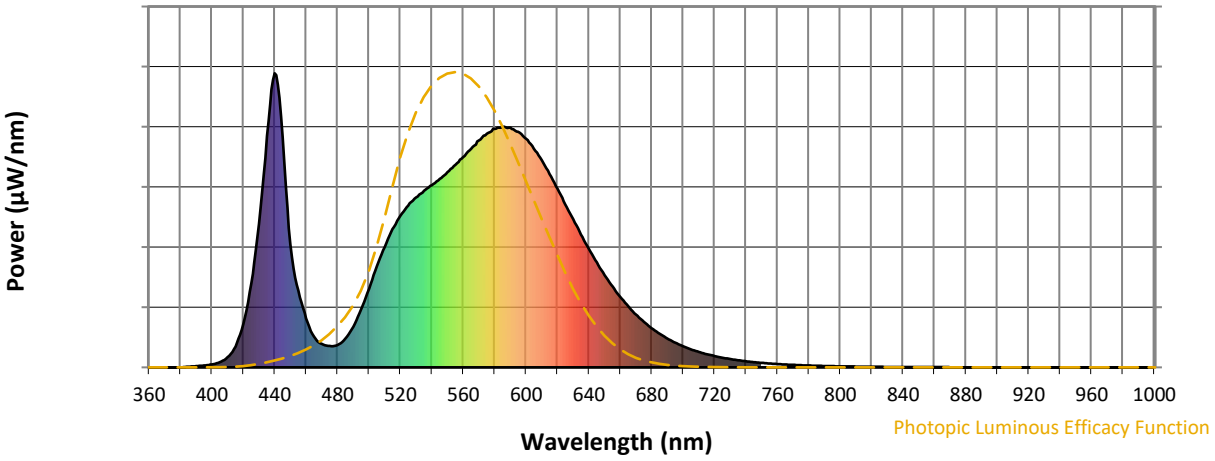


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

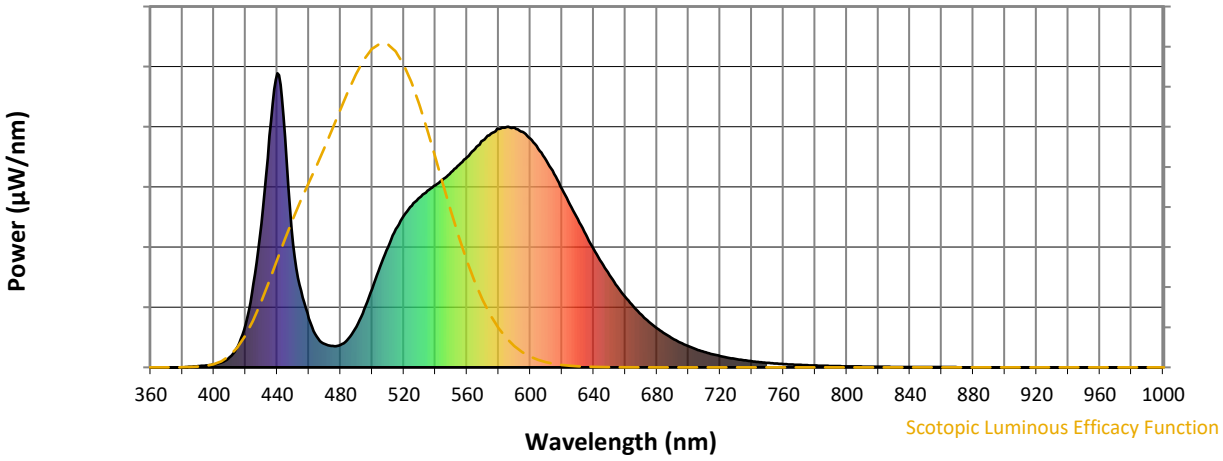


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

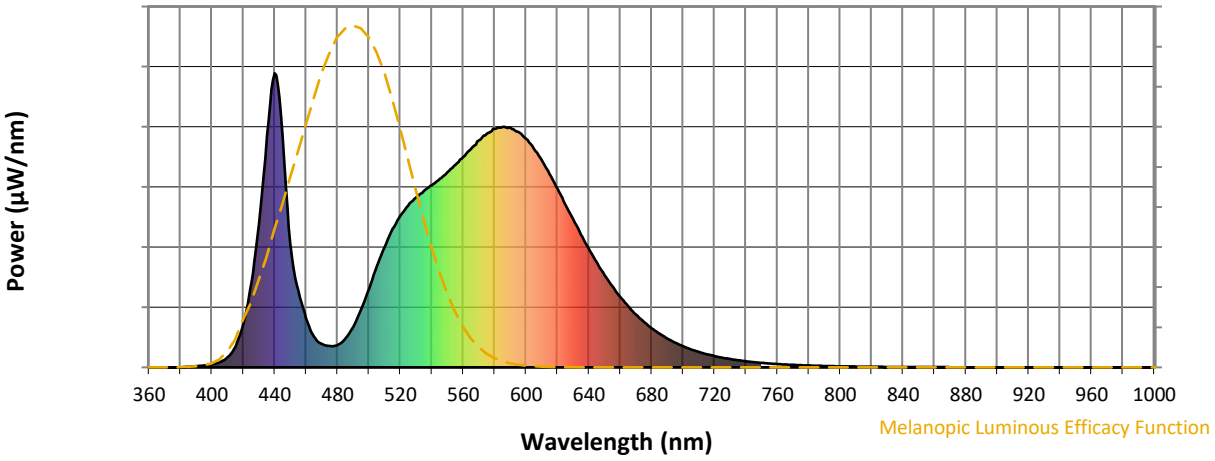


Scotopic Lumens: NR **S/P: 1.47**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

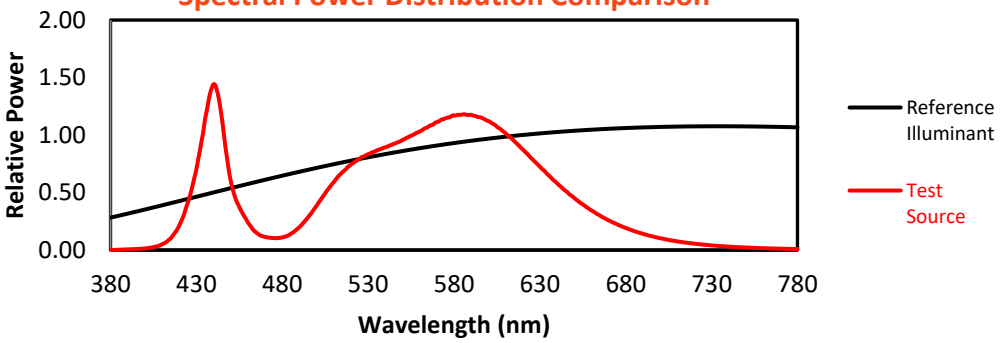
REPORT NUMBER: SP1-2407-184-1

TM-30-18

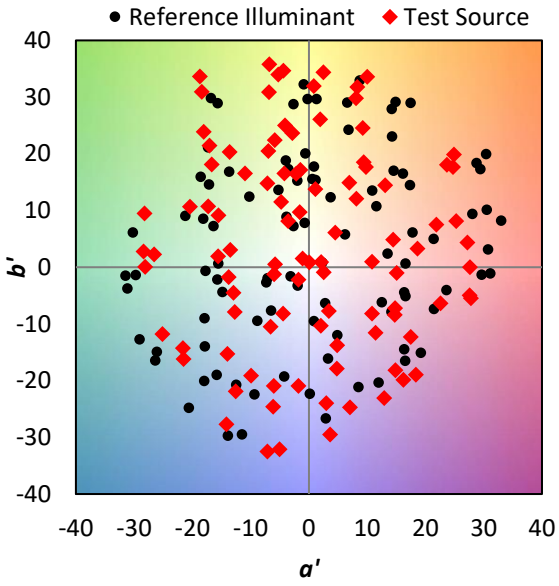
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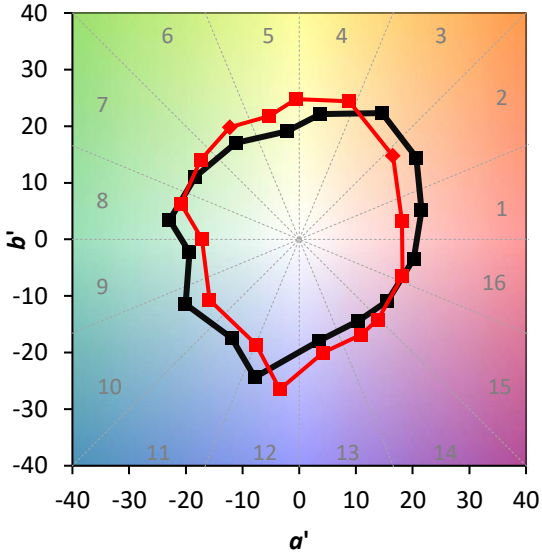
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

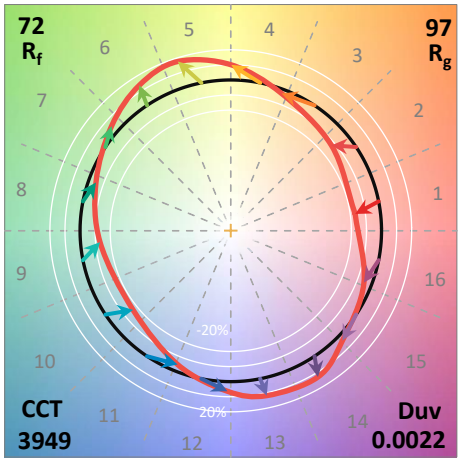
Spectral Power Distribution Comparison

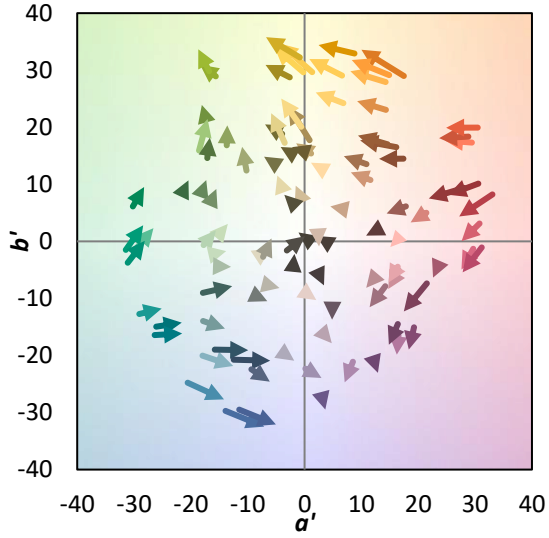


Color Vector Graphics







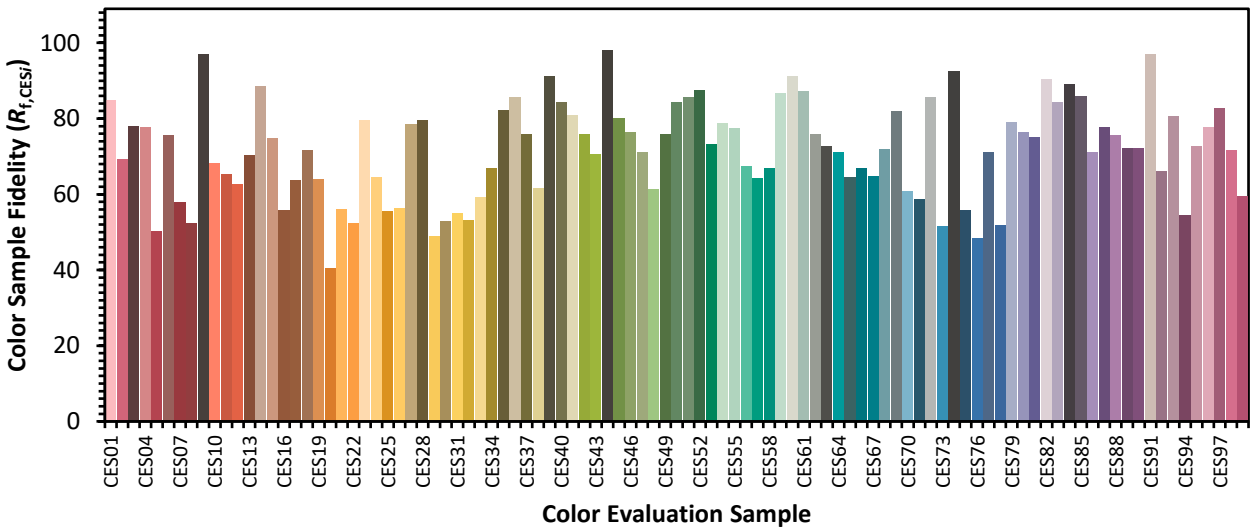


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Individual Sample Fidelity Index ($R_{f,i}$)

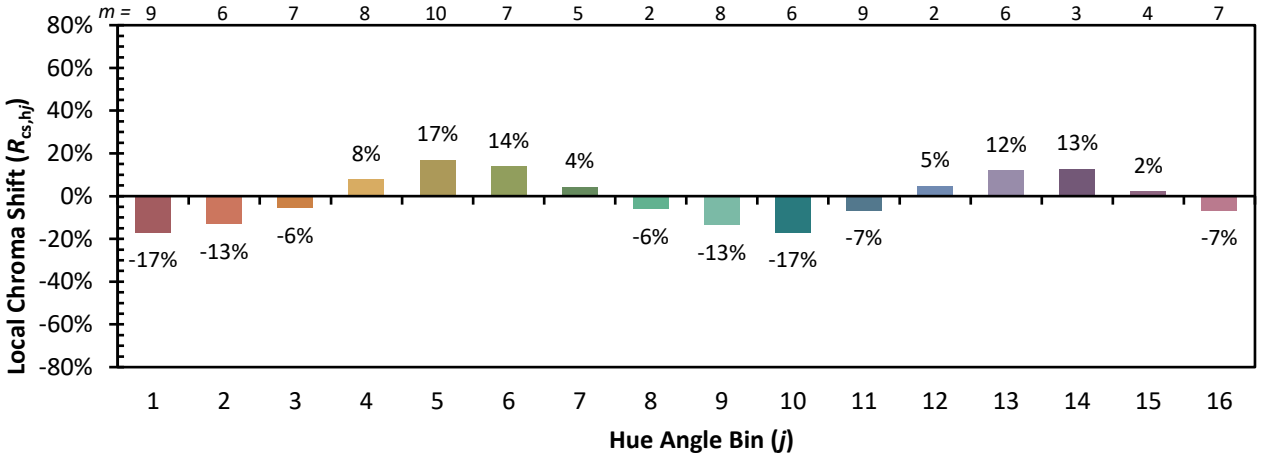
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82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

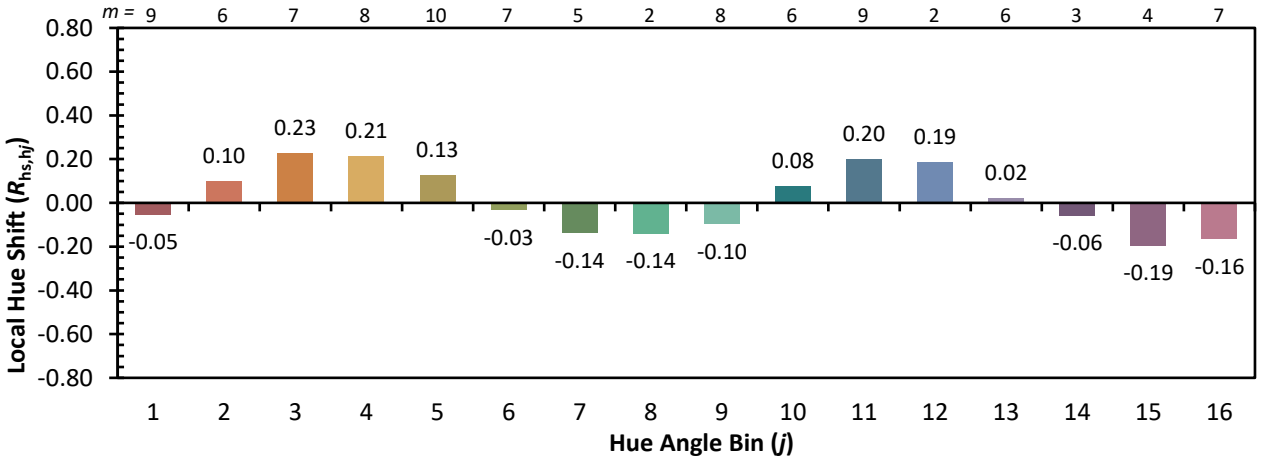


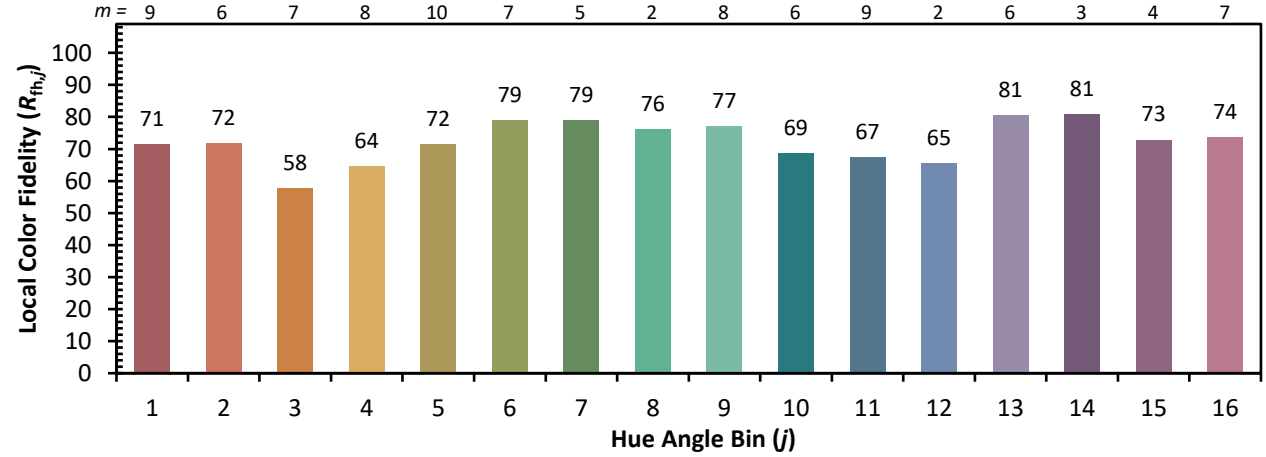
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Color Rendition by Hue-Angle Bin



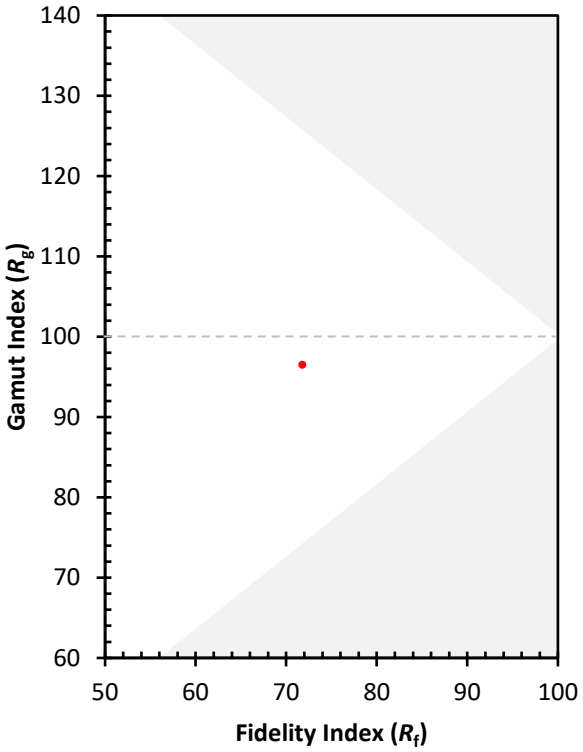


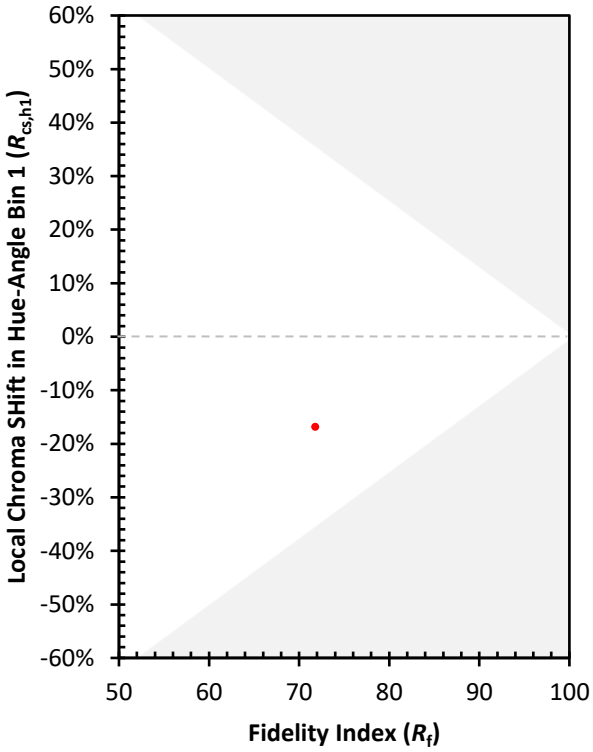


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Measure Comparisons





(END OF REPORT)