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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1365275

Luminaire Tested: **GSS-SB2A-740-U-SLL-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1365275
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-740-U-SLL-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 58W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator LETT OPTIC OPTIC AND HOUSE SIDE SHIELD
Light Source:	(52) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6653.4 lumens
Efficiency:	N/A
Efficacy:	114.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

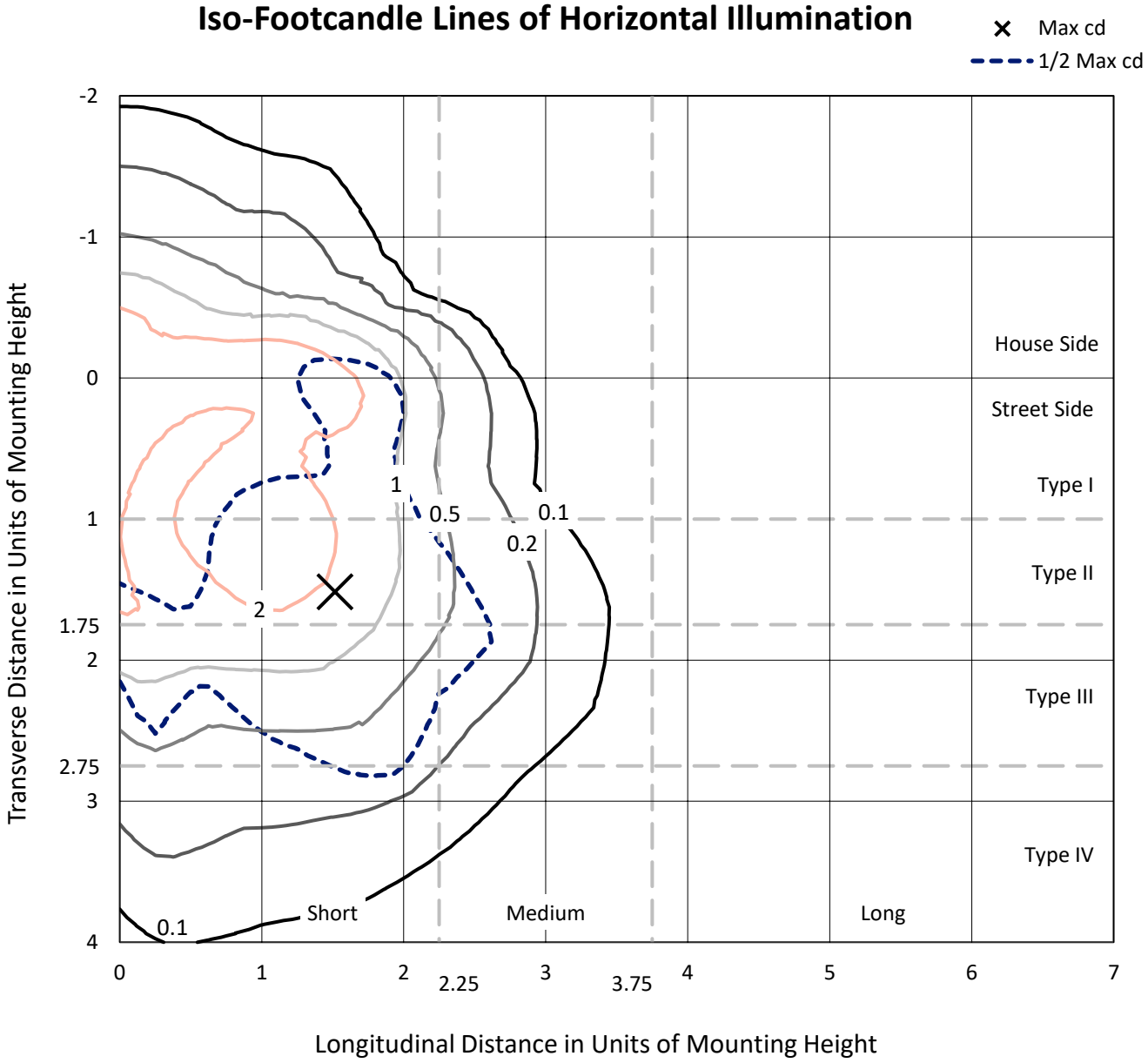
Input Watts (W):	58
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



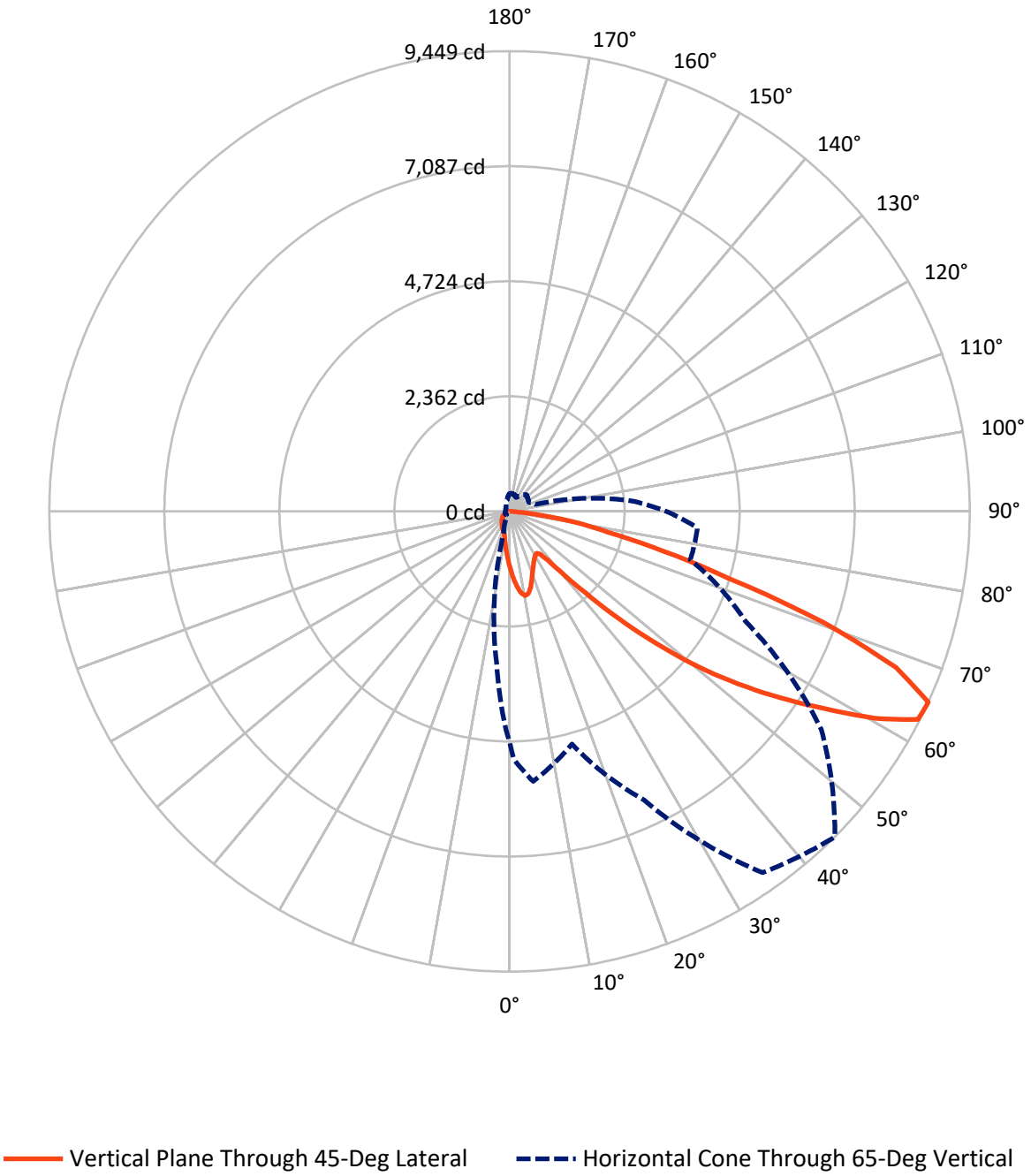
Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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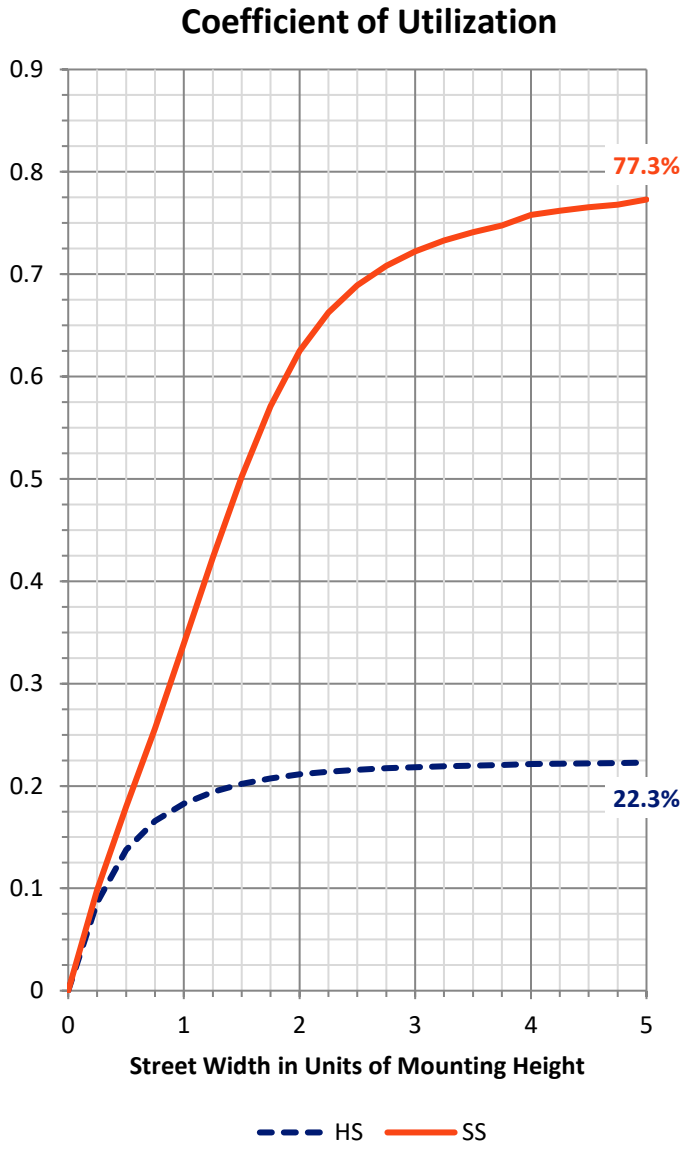
REPORT NUMBER: P1365275
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1496.7	0.0	1496.7
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5156.8	0.0	5156.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	6653.4	0.0	6653.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.7
10°-20°	305.5	4.6
20°-30°	437.6	6.6
30°-40°	548.9	8.3
40°-50°	901.7	13.6
50°-60°	1628.1	24.5
60°-70°	1807.4	27.2
70°-80°	817.0	12.3
80°-90°	96.7	1.5
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°	6653.4	100.0
0°-180°	6653.4	100.0



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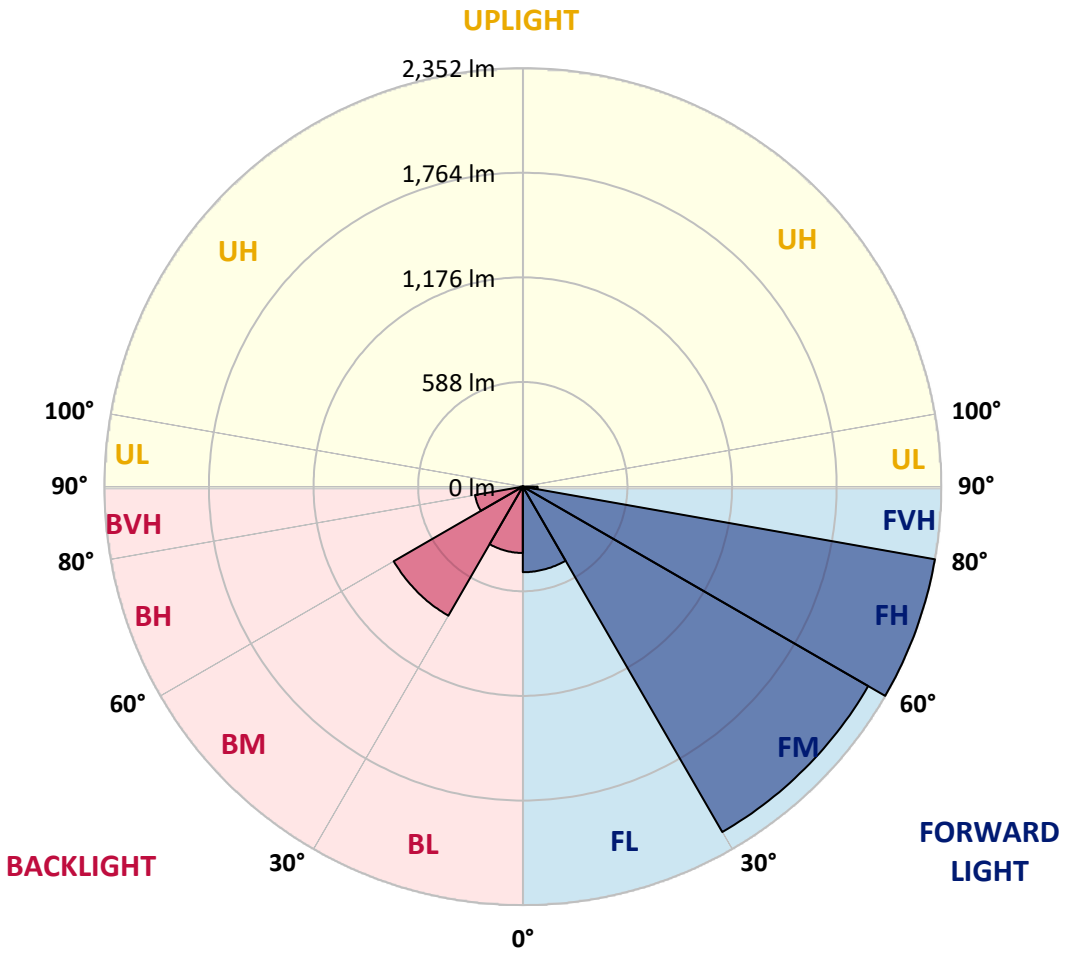
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	480.6	7.2			
FM	(30°-60°)	2241.3	33.7			
FH	(60°-80°)	2351.8	35.3			G2/5000
FVH	(80°-90°)	83.0	1.2			G1/100
BL	(0°-30°)	373.0	5.6	B1/500		
BM	(30°-60°)	837.4	12.6	B1/1000		
BH	(60°-80°)	272.6	4.1	B1/500		G1/500
BVH	(80°-90°)	13.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1265.8	1282.2	1280.1	1302.6	1323.0	1337.3	1349.5	1345.5	1335.3	1314.8	1300.5
5°	1398.5	1410.8	1431.2	1474.1	1506.8	1535.3	1531.3	1535.3	1504.7	1474.1	1437.3
7.5°	1512.9	1527.2	1555.8	1617.0	1657.8	1692.5	1688.5	1676.2	1641.5	1590.5	1535.3
10°	1584.3	1594.5	1625.2	1694.6	1741.5	1770.1	1759.9	1739.5	1694.6	1643.5	1578.2
12.5°	1615.0	1627.2	1653.8	1708.9	1739.5	1733.4	1729.3	1725.2	1702.8	1664.0	1604.8
15°	1619.0	1627.2	1647.6	1672.1	1659.9	1625.2	1617.0	1647.6	1676.2	1668.0	1619.0
17.5°	1619.0	1631.3	1635.4	1610.9	1547.6	1484.3	1476.1	1527.2	1606.8	1670.1	1641.5
20°	1625.2	1631.3	1623.1	1543.5	1425.1	1355.7	1341.4	1404.7	1523.1	1647.6	1664.0
22.5°	1633.3	1639.5	1604.8	1463.9	1325.0	1251.5	1243.4	1290.3	1429.2	1615.0	1688.5
25°	1649.7	1645.6	1592.5	1394.5	1237.3	1167.8	1155.6	1216.8	1351.6	1582.3	1729.3
27.5°	1670.1	1651.7	1576.2	1337.3	1174.0	1100.5	1092.3	1151.5	1286.3	1541.5	1764.0
30°	1696.6	1678.3	1574.1	1292.4	1127.0	1053.5	1043.3	1108.6	1241.3	1512.9	1813.0
32.5°	1733.4	1706.8	1576.2	1257.7	1100.5	1031.0	1024.9	1094.3	1223.0	1496.5	1864.0
35°	1782.4	1743.6	1584.3	1245.4	1108.6	1061.7	1076.0	1129.0	1241.3	1508.8	1947.8
37.5°	1843.6	1806.9	1625.2	1272.0	1198.5	1231.1	1267.9	1288.3	1329.1	1566.0	2082.5
40°	1945.7	1894.7	1686.4	1357.7	1439.4	1592.5	1664.0	1655.8	1561.9	1696.6	2272.4
42.5°	2088.6	2041.7	1811.0	1576.2	1841.6	2166.2	2286.7	2217.3	1933.5	1904.9	2584.8
45°	2307.1	2229.5	1978.4	1900.8	2327.5	2860.4	3131.9	2893.0	2405.1	2233.6	3029.8
47.5°	2586.8	2509.2	2239.7	2225.4	2870.6	3717.9	4040.5	3570.9	2872.6	2664.4	3562.7
50°	3036.0	2950.2	2623.5	2556.2	3470.8	4573.3	5004.1	4246.7	3348.3	3121.7	4220.1
52.5°	3652.5	3595.4	3232.0	2897.1	4007.8	5516.6	5888.2	4953.1	3715.8	3644.4	4936.8
55°	4512.1	4457.0	4024.1	3276.9	4516.2	6461.9	6762.0	5596.2	4036.4	4256.9	5686.0
57.5°	5486.0	5577.8	5108.3	3783.2	5051.1	7223.4	7642.0	6180.1	4469.2	5075.6	6519.0
60°	6120.9	6410.8	6351.6	4667.3	5882.0	8170.8	8626.0	6962.1	5102.1	5677.9	6500.7
62.5°	5569.7	5859.6	6312.8	5692.2	6682.4	9028.3	9412.1	7784.9	5731.0	5198.1	5459.4
65°	4726.5	5087.8	5565.6	4944.9	6541.5	9054.8	9448.8	7815.5	5347.1	3842.4	3871.0
67.5°	4073.1	4393.7	4981.7	4207.9	5798.3	8246.3	8556.6	6972.3	4420.2	2548.0	2525.5
70°	3399.4	3693.4	4436.5	3746.5	5079.7	7107.0	6839.6	5861.6	3736.3	1692.5	1402.6
72.5°	2897.1	3168.7	3942.5	3366.7	4030.3	5759.5	4714.2	4863.3	3040.0	1076.0	955.5
75°	2396.9	2646.0	3352.4	3048.2	3334.0	3593.3	3258.5	3454.5	2505.1	912.6	737.0
77.5°	1682.3	1837.5	2352.0	2425.5	2595.0	2127.4	2066.2	2419.4	1782.4	453.3	310.3
80°	828.9	924.9	1227.0	1443.5	1227.0	1206.6	1376.1	1610.9	924.9	277.7	171.5
82.5°	371.6	441.0	565.5	873.8	443.0	481.8	608.4	857.5	420.6	165.4	73.5
85°	59.2	65.3	110.3	147.0	120.5	185.8	177.6	167.4	89.8	44.9	20.4
87.5°	2.0	2.0	2.0	4.1	6.1	8.2	10.2	10.2	10.2	10.2	10.2
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°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1296.5	1290.3	1259.7	1229.1	1202.5	1176.0	1149.5	1112.7	1084.1	1059.6	1049.4
5°	1419.0	1386.3	1339.3	1288.3	1243.4	1192.3	1143.3	1088.2	1043.3	996.3	971.8
7.5°	1502.7	1470.0	1392.4	1314.8	1259.7	1204.6	1153.5	1092.3	1033.1	965.7	929.0
10°	1541.5	1504.7	1421.0	1331.2	1263.8	1208.7	1161.7	1110.7	1051.5	967.8	918.8
12.5°	1568.0	1523.1	1427.1	1335.3	1267.9	1210.7	1165.8	1129.0	1094.3	1012.7	955.5
15°	1584.3	1543.5	1443.5	1337.3	1261.8	1194.4	1151.5	1139.3	1145.4	1106.6	1037.2
17.5°	1608.8	1570.0	1463.9	1349.5	1251.5	1159.7	1112.7	1139.3	1194.4	1206.6	1151.5
20°	1641.5	1600.7	1490.4	1359.8	1220.9	1094.3	1049.4	1116.8	1208.7	1272.0	1241.3
22.5°	1678.3	1645.6	1521.0	1370.0	1176.0	1008.6	988.2	1069.8	1167.8	1249.5	1251.5
25°	1723.2	1692.5	1563.9	1380.2	1114.8	935.1	939.2	1008.6	1086.2	1169.9	1184.2
27.5°	1784.4	1755.8	1617.0	1392.4	1051.5	875.9	896.3	947.3	1000.4	1051.5	1071.9
30°	1851.8	1829.3	1680.3	1416.9	992.3	841.2	853.4	888.1	931.0	961.6	971.8
32.5°	1943.7	1906.9	1739.5	1414.9	947.3	824.8	812.6	822.8	857.5	888.1	890.2
35°	2058.0	2029.4	1800.8	1378.1	906.5	816.7	773.8	767.7	788.1	818.7	816.7
37.5°	2225.4	2200.9	1900.8	1321.0	855.5	796.3	733.0	712.5	726.8	747.3	753.4
40°	2476.5	2413.3	2015.1	1257.7	804.4	759.5	684.0	655.4	665.6	688.0	692.1
42.5°	2817.5	2697.0	2168.3	1171.9	755.4	704.4	635.0	604.3	610.5	630.9	635.0
45°	3254.4	3072.7	2378.5	1082.1	716.6	647.2	583.9	551.3	557.4	579.8	590.0
47.5°	3764.8	3515.8	2599.0	986.1	694.2	602.3	532.9	508.4	522.7	545.1	549.2
50°	4367.1	4116.0	2739.9	908.5	679.9	567.6	485.9	475.7	494.1	512.5	516.5
52.5°	5024.5	4667.3	2650.1	845.3	667.6	555.3	453.3	457.3	471.6	490.0	496.1
55°	5663.6	4869.4	2352.0	763.6	653.3	563.5	428.8	439.0	457.3	471.6	475.7
57.5°	6080.1	4699.9	1894.7	677.8	637.0	569.6	416.5	424.7	445.1	461.4	463.5
60°	5716.7	4328.3	1419.0	604.3	602.3	559.4	412.4	400.2	428.8	443.0	445.1
62.5°	4683.6	3540.3	906.5	534.9	537.0	537.0	410.4	359.3	396.1	408.3	406.3
65°	*3217.7*	*2503.1*	*561.5*	*436.9*	*457.3*	*488.0*	*398.1*	*316.5*	*359.3*	*371.6*	*367.5*
67.5°	2115.2	1590.5	347.1	336.9	375.7	422.6	373.6	283.8	322.6	330.8	318.5
70°	1147.4	749.3	228.7	220.5	294.0	332.8	316.5	255.2	287.9	296.0	283.8
72.5°	757.5	430.8	161.3	161.3	230.7	232.8	259.3	228.7	255.2	263.4	251.1
75°	569.6	277.7	112.3	124.5	147.0	181.7	185.8	191.9	216.4	226.6	214.4
77.5°	261.3	102.1	67.4	91.9	102.1	138.8	118.4	142.9	161.3	165.4	155.2
80°	151.1	57.2	44.9	59.2	65.3	114.3	69.4	85.8	114.3	120.5	108.2
82.5°	63.3	28.6	30.6	36.8	38.8	63.3	49.0	55.1	75.5	73.5	65.3
85°	18.4	18.4	20.4	22.5	22.5	36.8	34.7	32.7	34.7	34.7	28.6
87.5°	12.3	12.3	12.3	14.3	14.3	16.3	18.4	20.4	20.4	20.4	18.4
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°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1035.1	1016.8	990.2	986.1	971.8	961.6	971.8	982.0	1000.4	1002.5	1010.6
5°	949.4	906.5	873.8	837.1	818.7	816.7	812.6	824.8	851.4	867.7	880.0
7.5°	892.2	814.6	757.5	706.4	688.0	673.8	686.0	684.0	718.7	733.0	745.2
10°	861.6	753.4	667.6	604.3	579.8	565.5	563.5	567.6	588.0	602.3	616.6
12.5°	882.0	728.9	602.3	528.8	502.3	485.9	471.6	471.6	475.7	494.1	500.2
15°	949.4	743.2	571.7	492.0	457.3	430.8	412.4	398.1	400.2	402.2	408.3
17.5°	1047.4	779.9	561.5	469.6	432.8	400.2	381.8	365.5	361.4	361.4	359.3
20°	1141.3	808.5	553.3	451.2	404.3	375.7	359.3	345.0	338.9	338.9	338.9
22.5°	1180.1	833.0	543.1	428.8	375.7	349.1	334.8	324.6	322.6	322.6	320.5
25°	1149.5	824.8	530.8	406.3	349.1	328.7	316.5	306.3	304.2	306.3	304.2
27.5°	1053.5	796.3	514.5	387.9	328.7	310.3	300.1	289.9	287.9	289.9	289.9
30°	951.4	747.3	488.0	373.6	312.4	292.0	281.8	271.5	271.5	273.6	275.6
32.5°	869.8	698.3	457.3	355.3	294.0	275.6	265.4	255.2	255.2	259.3	259.3
35°	800.3	659.5	426.7	336.9	277.7	257.3	249.1	240.9	238.9	243.0	245.0
37.5°	745.2	624.8	394.0	318.5	261.3	243.0	234.8	224.6	222.5	226.6	230.7
40°	688.0	586.0	365.5	296.0	245.0	226.6	218.5	206.2	206.2	210.3	214.4
42.5°	632.9	551.3	347.1	275.6	228.7	208.3	200.1	189.9	189.9	194.0	198.0
45°	588.0	518.6	336.9	255.2	210.3	191.9	181.7	173.5	175.6	179.7	183.8
47.5°	545.1	483.9	338.9	245.0	198.0	173.5	163.3	157.2	161.3	167.4	171.5
50°	512.5	459.4	341.0	228.7	181.7	159.3	149.0	145.0	151.1	157.2	161.3
52.5°	492.0	434.9	328.7	208.3	169.5	145.0	138.8	138.8	145.0	149.0	153.1
55°	471.6	394.0	302.2	185.8	157.2	134.8	130.7	130.7	136.8	140.9	142.9
57.5°	455.3	351.2	271.5	167.4	142.9	124.5	124.5	124.5	126.6	128.6	132.7
60°	424.7	306.3	232.8	153.1	128.6	116.4	114.3	114.3	112.3	114.3	120.5
62.5°	371.6	257.3	198.0	136.8	116.4	106.2	104.1	98.0	91.9	93.9	98.0
65°	*314.4*	*204.2*	*165.4*	*118.4*	*100.0*	*93.9*	*91.9*	*81.7*	*73.5*	*75.5*	*81.7*
67.5°	251.1	153.1	138.8	102.1	85.8	79.6	79.6	73.5	67.4	67.4	71.5
70°	196.0	128.6	104.1	81.7	67.4	67.4	71.5	65.3	57.2	57.2	63.3
72.5°	159.3	104.1	83.7	63.3	53.1	57.2	59.2	53.1	47.0	47.0	51.0
75°	124.5	81.7	65.3	47.0	40.8	42.9	47.0	42.9	36.8	38.8	40.8
77.5°	85.8	55.1	42.9	34.7	30.6	32.7	32.7	30.6	28.6	28.6	30.6
80°	57.2	36.8	28.6	24.5	22.5	22.5	20.4	20.4	22.5	22.5	24.5
82.5°	40.8	26.5	22.5	18.4	14.3	14.3	16.3	16.3	18.4	18.4	20.4
85°	24.5	18.4	16.3	12.3	10.2	12.3	12.3	14.3	16.3	16.3	18.4
87.5°	18.4	14.3	12.3	10.2	8.2	8.2	10.2	10.2	12.3	14.3	14.3
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: P1365275
CATALOG NUMBER: GSS-SB2A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1031.0	1055.5	1090.3	1120.9	1157.6	1194.4	1229.1	1261.8	1263.8	1265.8
5°	918.8	967.8	1024.9	1094.3	1167.8	1239.3	1314.8	1376.1	1390.4	1398.5
7.5°	794.2	865.7	953.5	1051.5	1161.7	1272.0	1378.1	1470.0	1504.7	1512.9
10°	663.5	751.3	857.5	984.1	1133.1	1280.1	1423.0	1535.3	1576.2	1584.3
12.5°	547.2	618.6	741.1	894.3	1073.9	1267.9	1439.4	1563.9	1604.8	1615.0
15°	447.1	514.5	628.8	790.1	992.3	1225.0	1427.1	1570.0	1610.9	1619.0
17.5°	369.5	412.4	516.5	692.1	918.8	1169.9	1410.8	1574.1	1612.9	1619.0
20°	338.9	347.1	402.2	573.7	841.2	1129.0	1400.6	1580.3	1619.0	1625.2
22.5°	324.6	324.6	336.9	436.9	733.0	1086.2	1396.5	1598.6	1627.2	1633.3
25°	310.3	310.3	314.4	343.0	604.3	1033.1	1404.7	1631.3	1649.7	1649.7
27.5°	296.0	296.0	300.1	306.3	449.2	945.3	1406.7	1668.0	1676.2	1670.1
30°	281.8	285.8	285.8	289.9	330.8	835.0	1394.5	1708.9	1708.9	1696.6
32.5°	267.5	269.5	273.6	275.6	287.9	692.1	1374.0	1759.9	1749.7	1733.4
35°	255.2	257.3	257.3	261.3	273.6	553.3	1351.6	1829.3	1800.8	1782.4
37.5°	238.9	240.9	243.0	247.0	259.3	439.0	1318.9	1888.5	1868.1	1843.6
40°	224.6	226.6	228.7	232.8	245.0	377.7	1278.1	1978.4	1974.3	1945.7
42.5°	208.3	212.3	214.4	216.4	232.8	345.0	1249.5	2123.3	2123.3	2088.6
45°	194.0	198.0	198.0	202.1	224.6	316.5	1312.8	2323.4	2339.8	2307.1
47.5°	181.7	183.8	183.8	185.8	212.3	292.0	1482.3	2629.7	2609.3	2586.8
50°	169.5	173.5	169.5	171.5	202.1	306.3	1762.0	3021.7	3074.8	3036.0
52.5°	161.3	163.3	155.2	155.2	187.8	324.6	1990.6	3521.9	3699.5	3652.5
55°	151.1	153.1	142.9	142.9	165.4	281.8	2004.9	4091.5	4481.5	4512.1
57.5°	140.9	140.9	132.7	130.7	142.9	228.7	1778.3	4532.5	5416.5	5486.0
60°	128.6	126.6	122.5	118.4	130.7	210.3	1355.7	4473.3	5880.0	6120.9
62.5°	110.3	114.3	112.3	104.1	118.4	196.0	884.0	3871.0	5357.3	5569.7
65°	*91.9*	*98.0*	*98.0*	*91.9*	*130.7*	*171.5*	*465.5*	*3099.3*	*4471.3*	*4726.5*
67.5°	81.7	85.8	83.7	79.6	116.4	108.2	224.6	2376.5	3828.1	4073.1
70°	71.5	75.5	69.4	65.3	93.9	77.6	132.7	1590.5	3160.5	3399.4
72.5°	59.2	63.3	57.2	51.0	69.4	59.2	87.8	1035.1	2631.7	2897.1
75°	49.0	51.0	47.0	40.8	51.0	47.0	61.3	675.8	2200.9	2396.9
77.5°	34.7	38.8	36.8	30.6	36.8	32.7	42.9	385.9	1535.3	1682.3
80°	26.5	26.5	26.5	24.5	22.5	22.5	28.6	173.5	745.2	828.9
82.5°	22.5	22.5	20.4	18.4	16.3	14.3	16.3	51.0	351.2	371.6
85°	20.4	16.3	14.3	12.3	10.2	6.1	6.1	14.3	71.5	59.2
87.5°	12.3	10.2	8.2	4.1	2.0	2.0	0.0	2.0	2.0	2.0
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

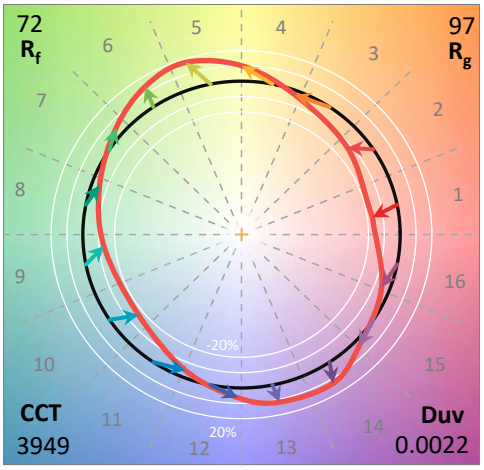
Test Information

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

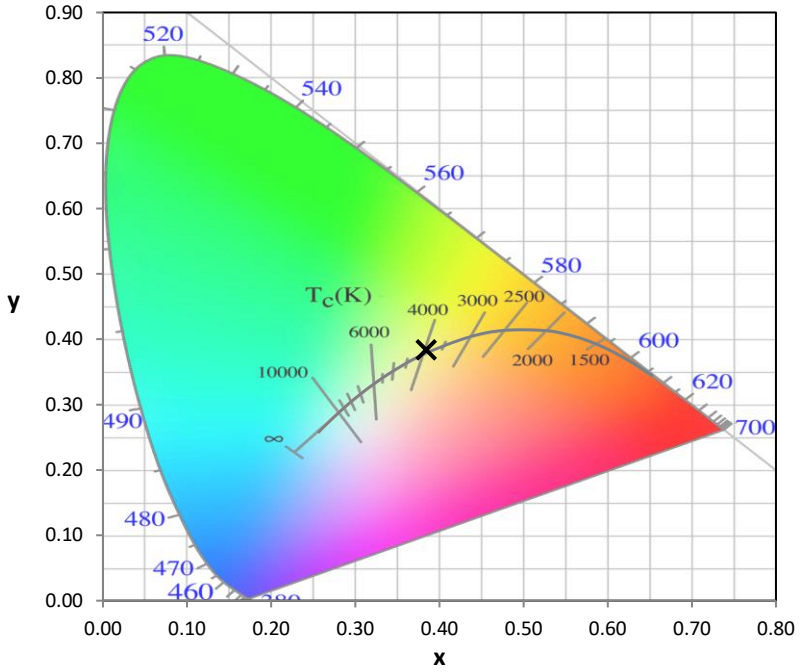
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

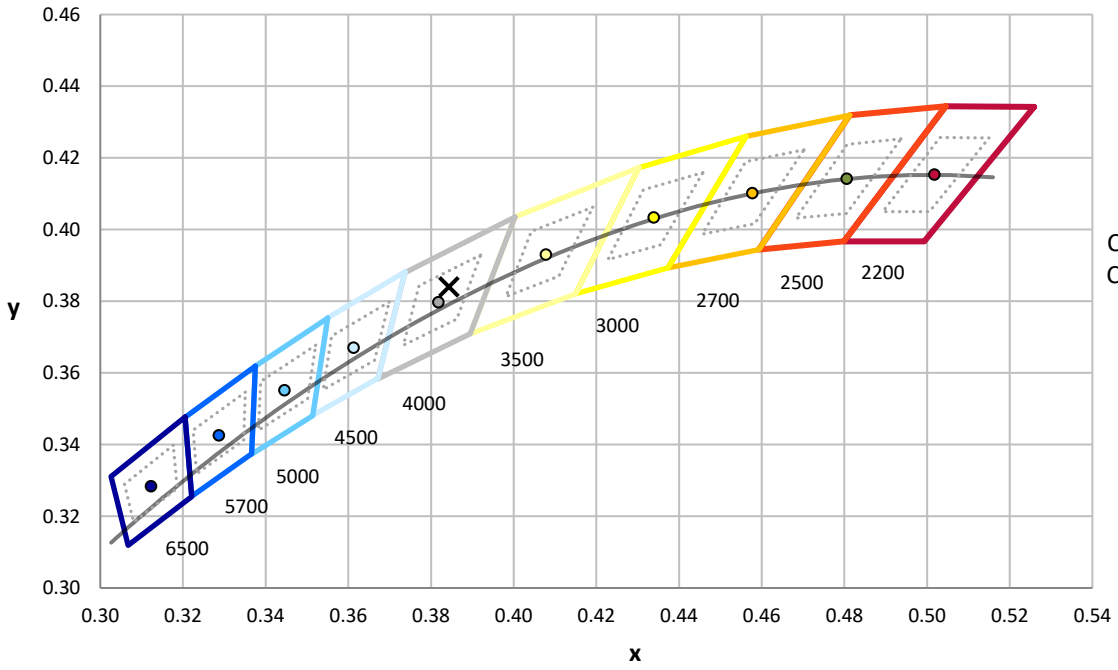
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

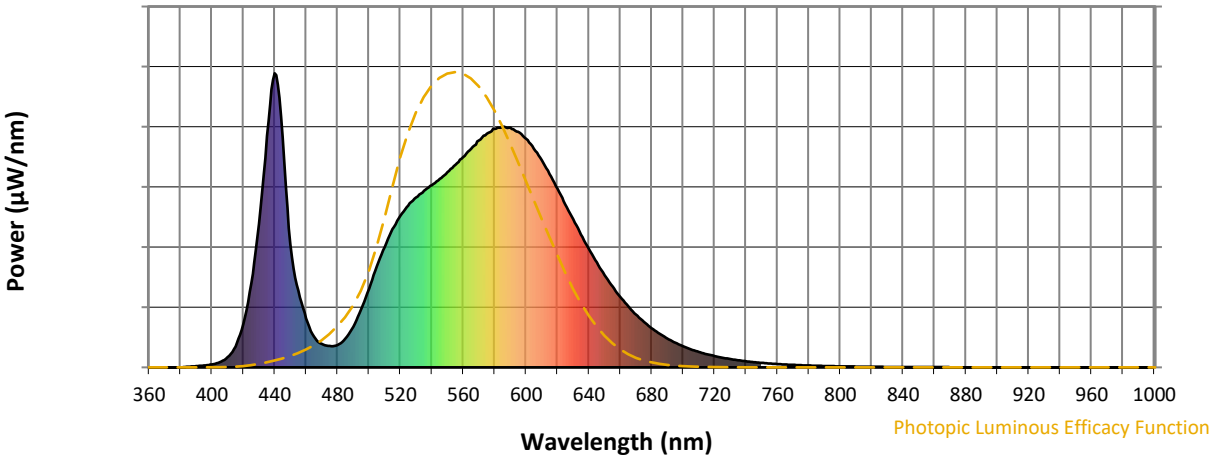


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

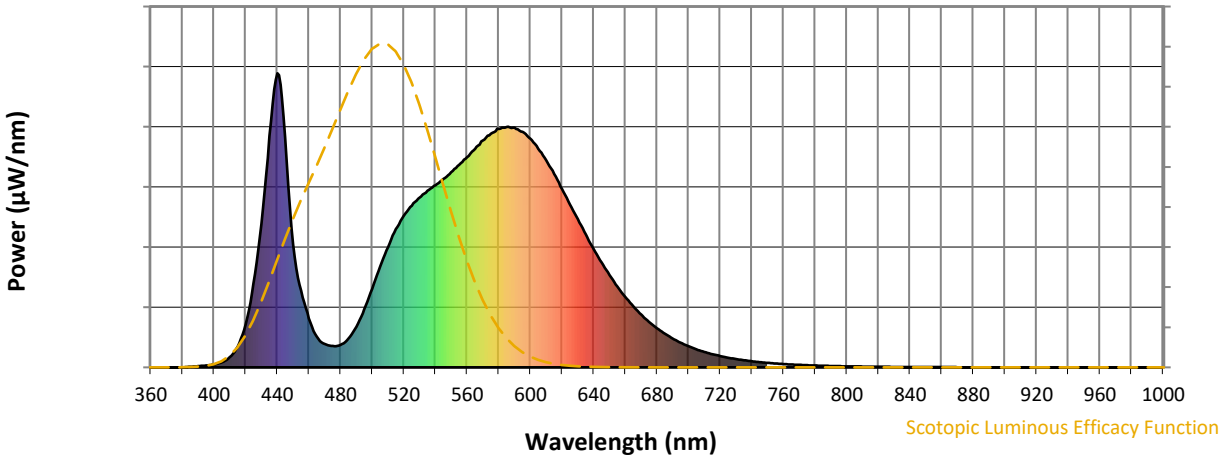


Photopic Lumens: NR

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

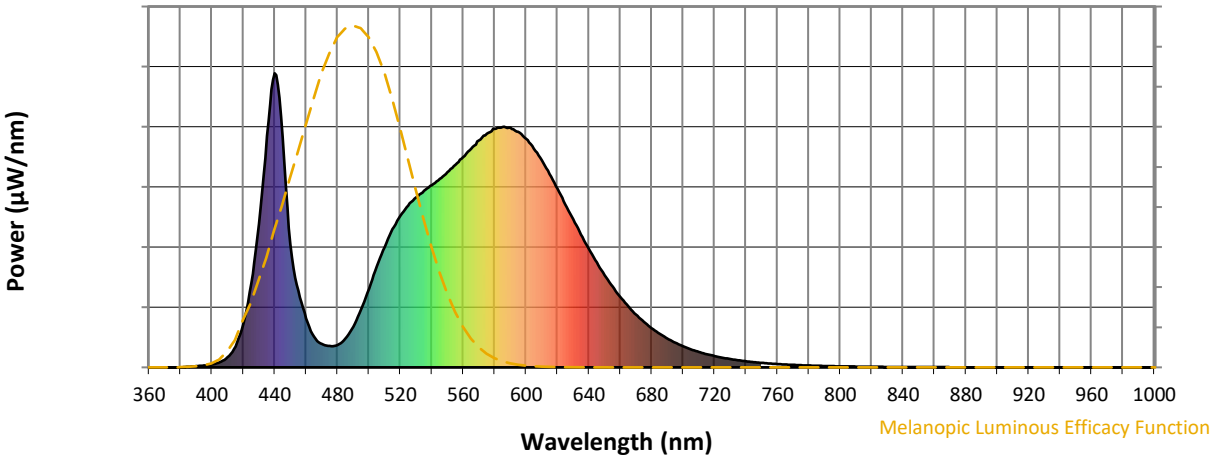


Scotopic Lumens: NR **S/P: 1.47**

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			

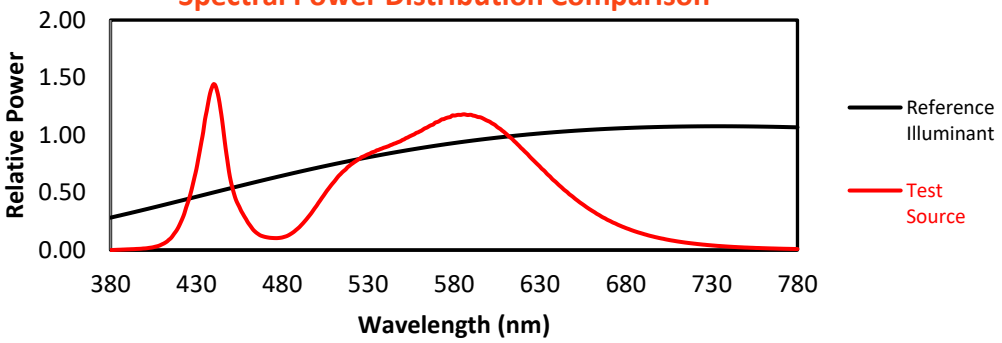
REPORT NUMBER: SP1-2407-184-1

TM-30-18

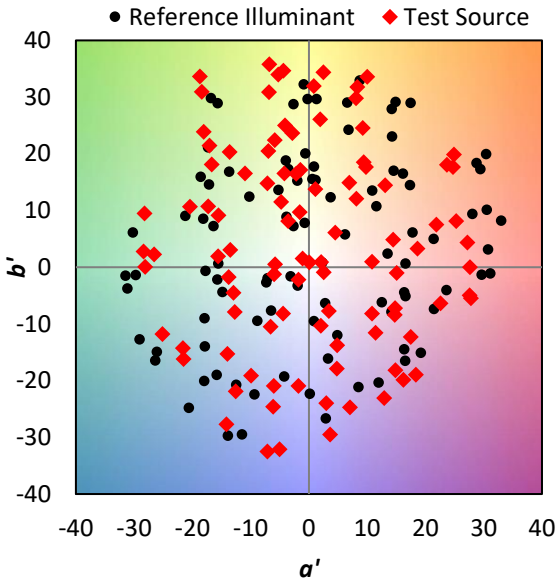
Summary

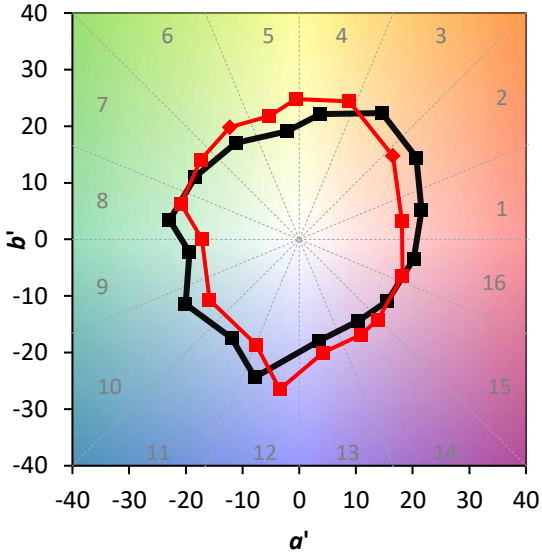
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

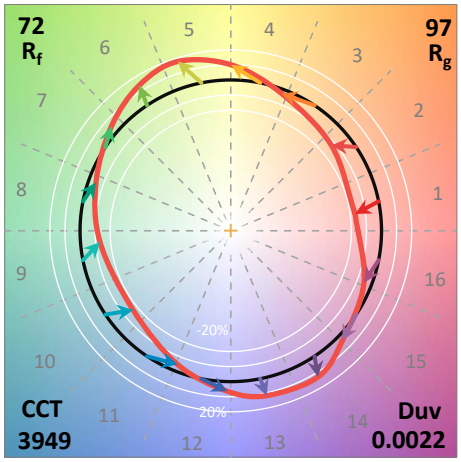
Spectral Power Distribution Comparison

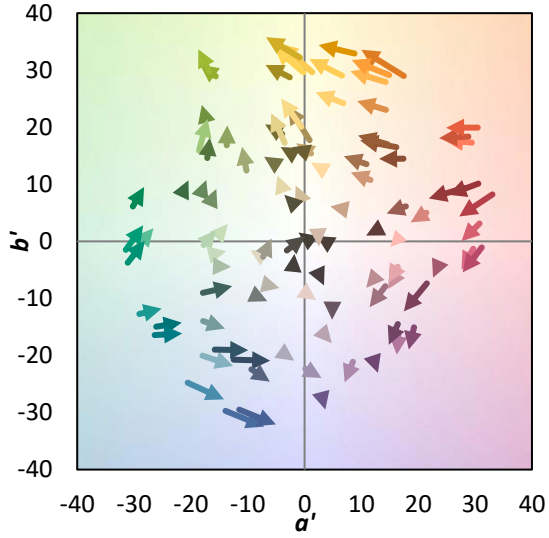


Color Vector Graphics







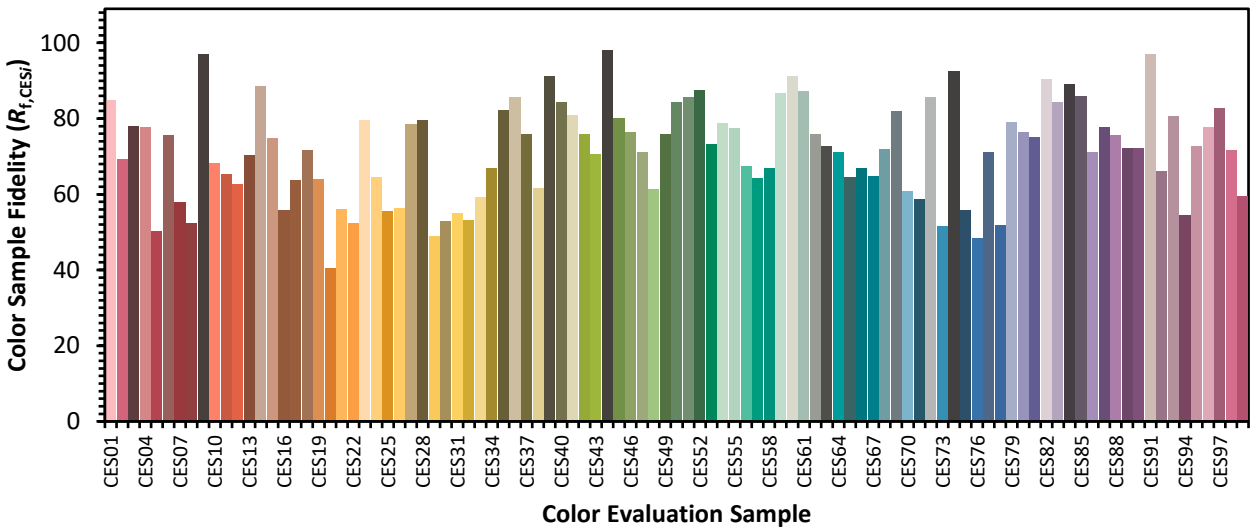


REPORT NUMBER: SP1-2407-184-1

TM-30-18

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

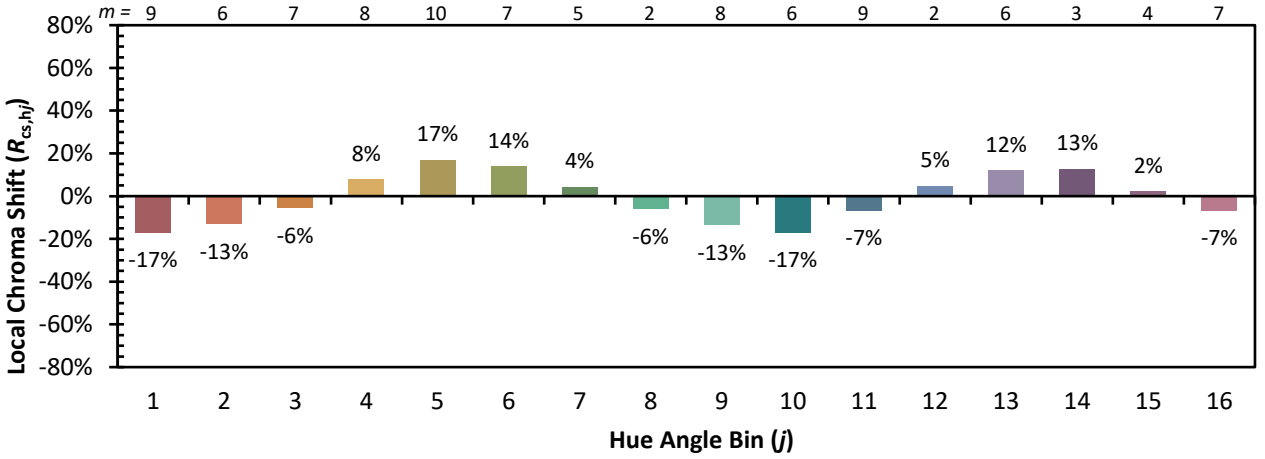
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 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	

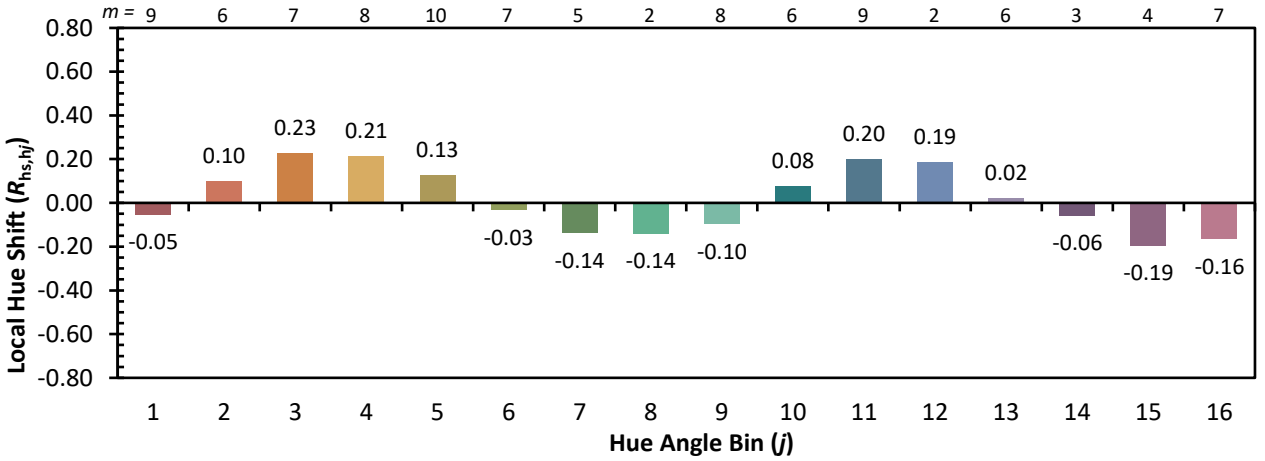


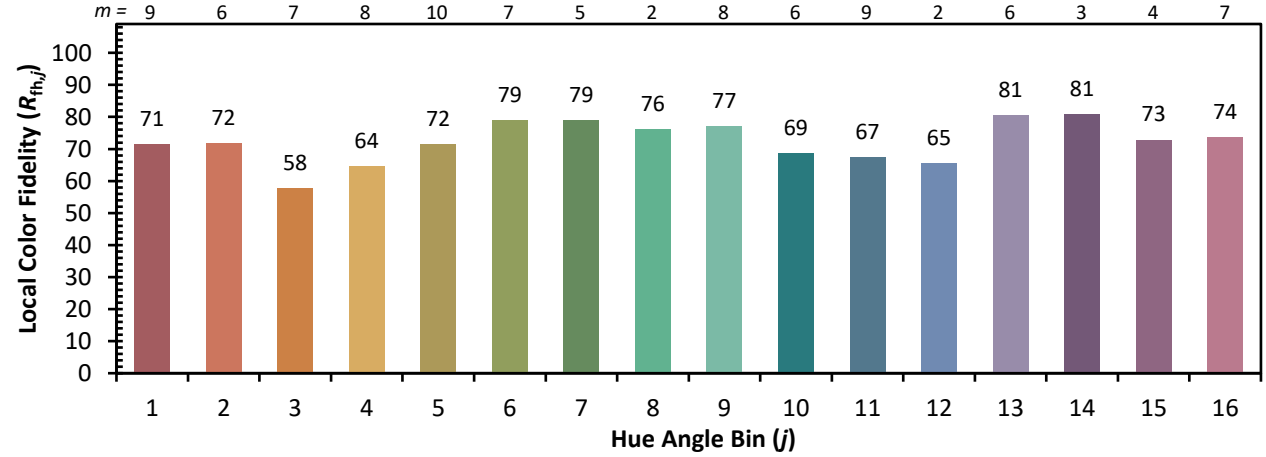
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Color Rendition by Hue-Angle Bin



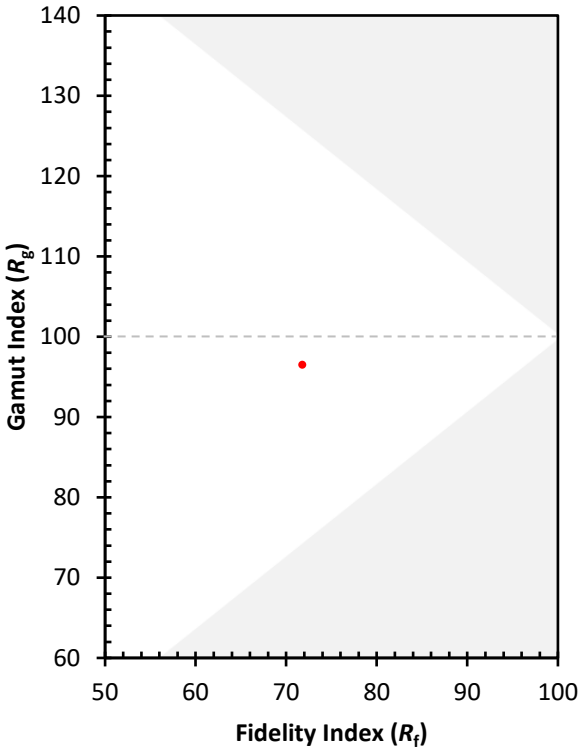


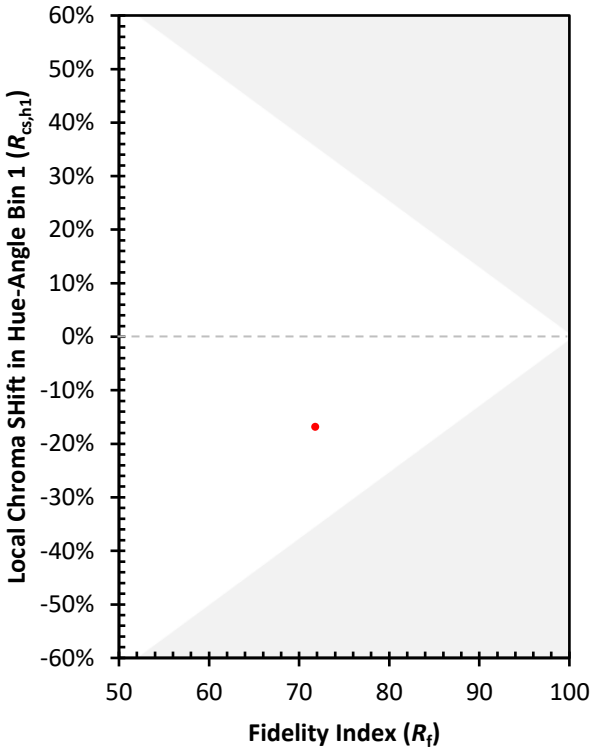


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Measure Comparisons





(END OF REPORT)