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: P1501378

Luminaire Tested: GSS-SB2B-727-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501378
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2B-727-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9687.2 lumens
Efficiency:	N/A
Efficacy:	130.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

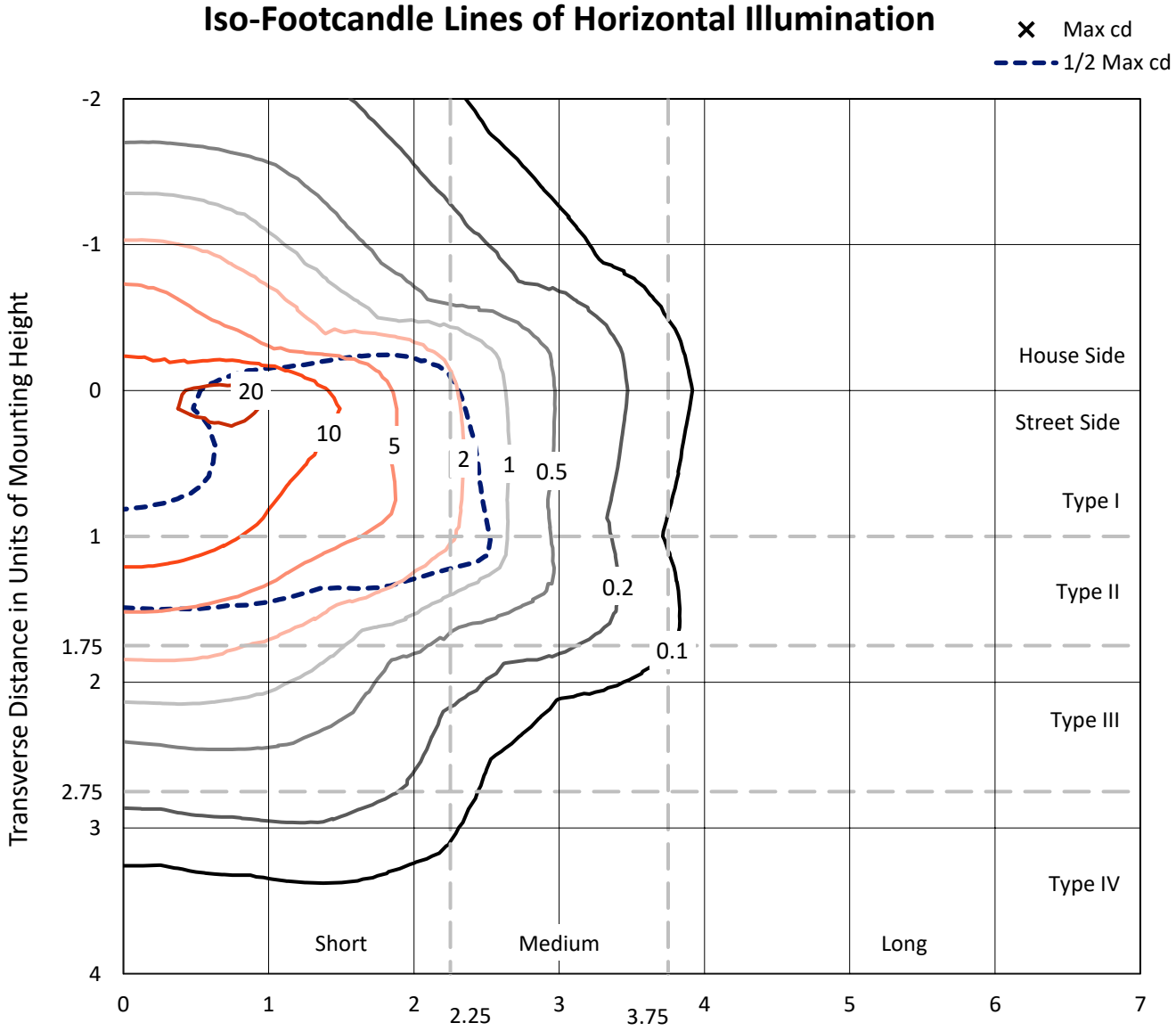
Input Watts (W):	74
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



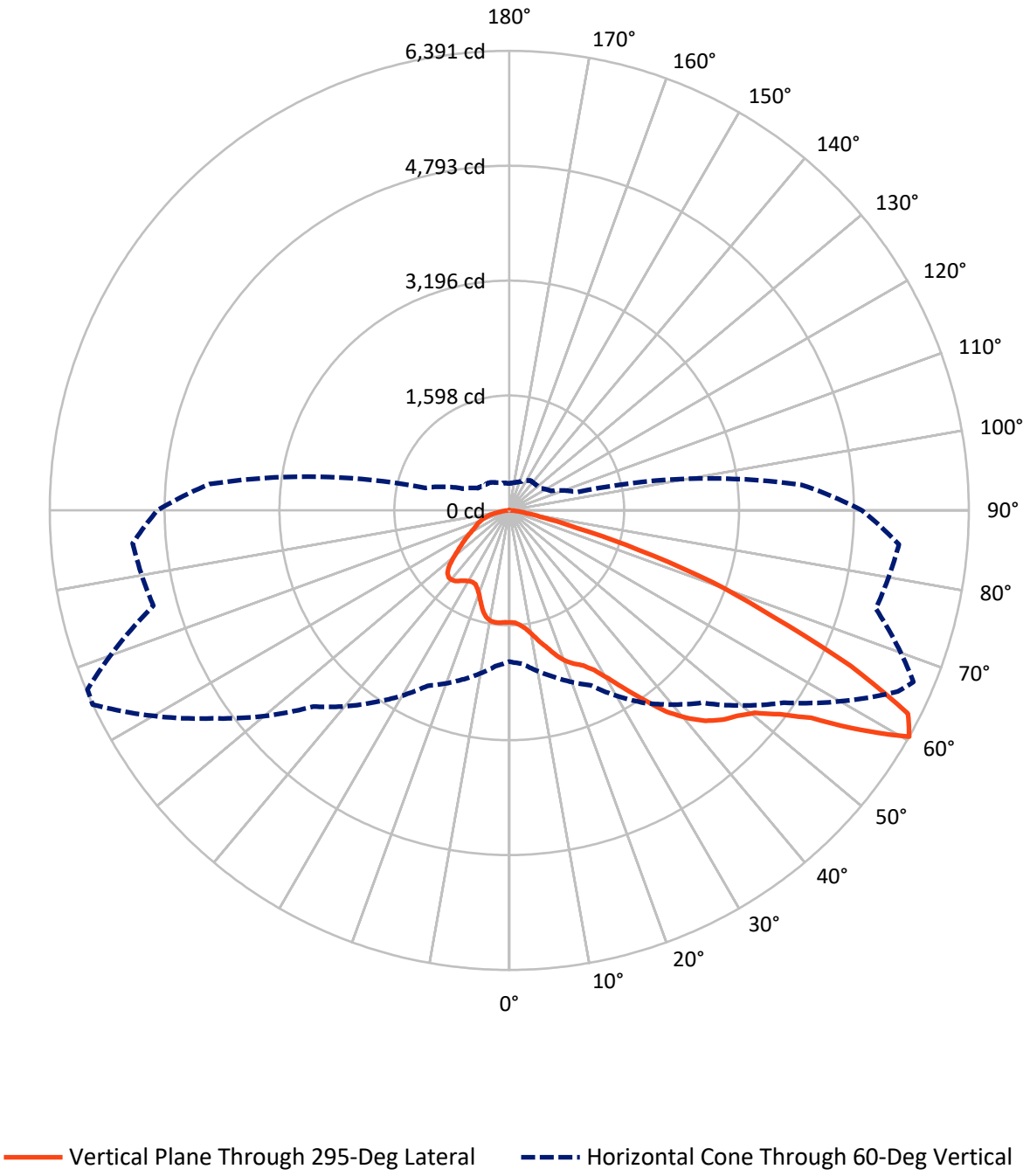
Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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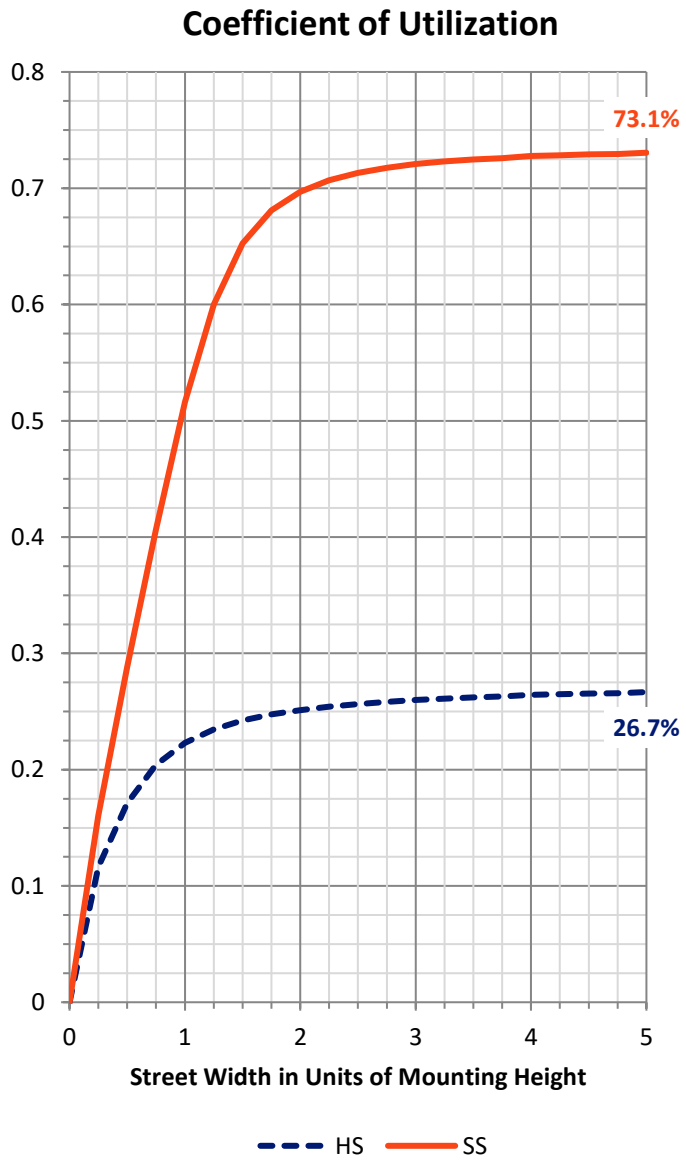
REPORT NUMBER: P1501378
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.0	0.0	2605.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7082.2	0.0	7082.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	9687.2	0.0	9687.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.5
10°-20°	421.3	4.3
20°-30°	798.0	8.2
30°-40°	1406.8	14.5
40°-50°	2080.5	21.5
50°-60°	2443.0	25.2
60°-70°	1770.1	18.3
70°-80°	545.9	5.6
80°-90°	75.1	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°	9687.2	100.0
0°-180°	9687.2	100.0



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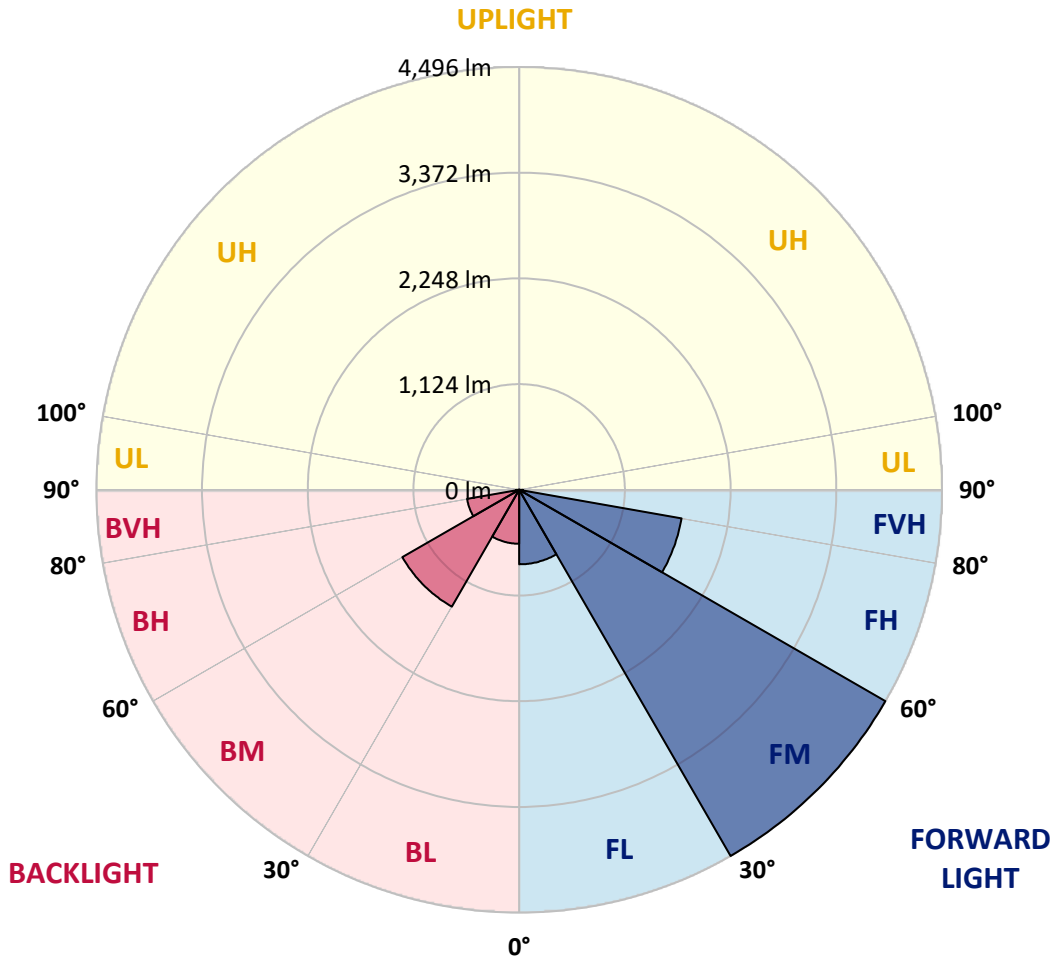
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	792.1	8.2			
FM	(30°-60°)	4495.9	46.4			
FH	(60°-80°)	1753.7	18.1			G1/1800
FVH	(80°-90°)	40.5	0.4			G1/100
BL	(0°-30°)	573.7	5.9	B2/1000		
BM	(30°-60°)	1434.4	14.8	B2/2500		
BH	(60°-80°)	562.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	34.6	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°	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1589.5	1593.9	1587.3	1591.7	1591.7	1585.1	1582.9	1574.1	1578.5	1576.3	1574.1
5°	1627.1	1629.3	1624.9	1631.5	1631.5	1633.7	1631.5	1620.4	1620.4	1620.4	1616.0
7.5°	1616.0	1616.0	1618.2	1640.3	1662.4	1691.1	1691.1	1686.7	1691.1	1688.9	1669.0
10°	1523.3	1532.1	1552.0	1607.2	1660.2	1722.0	1763.9	1777.2	1777.2	1779.4	1746.3
12.5°	1357.7	1364.3	1410.7	1494.6	1605.0	1717.6	1819.1	1885.4	1892.0	1903.0	1858.9
15°	1209.8	1214.2	1247.3	1333.4	1459.3	1658.0	1850.0	1986.9	2009.0	2055.4	1989.1
17.5°	1223.1	1220.8	1229.7	1262.8	1353.3	1560.8	1843.4	2106.1	2145.9	2227.5	2170.2
20°	1302.5	1302.5	1309.2	1315.8	1348.9	1490.2	1794.8	2203.3	2280.5	2439.5	2373.3
22.5°	1428.4	1428.4	1426.2	1437.2	1437.2	1521.1	1797.1	2276.1	2390.9	2675.7	2611.7
25°	1602.8	1593.9	1593.9	1598.4	1578.5	1638.1	1852.2	2351.2	2501.3	2956.1	2900.9
27.5°	1799.3	1805.9	1801.5	1786.0	1759.5	1805.9	1984.7	2468.2	2624.9	3251.9	3229.8
30°	2013.4	2015.6	2020.0	2011.2	1989.1	2022.2	2192.2	2644.8	2788.3	3561.0	3609.6
32.5°	2223.1	2254.0	2243.0	2220.9	2229.8	2289.4	2448.3	2883.2	3031.1	3848.0	4020.2
35°	2490.3	2501.3	2545.5	2463.8	2466.0	2567.5	2775.1	3196.7	3340.2	4146.0	4430.8
37.5°	2878.8	2898.7	2878.8	2750.8	2730.9	2872.2	3093.0	3505.8	3609.6	4371.2	4812.7
40°	3260.7	3285.0	3318.1	3168.0	3042.2	3159.2	3393.2	3742.0	3850.2	4494.8	5066.6
42.5°	3576.4	3616.2	3580.9	3536.7	3421.9	3444.0	3602.9	3925.3	4033.4	4651.6	5322.7
45°	3843.6	3850.2	3865.6	3834.7	3777.3	3757.5	3781.8	4086.4	4205.6	4722.2	5448.6
47.5°	3954.0	3982.7	3995.9	4048.9	4108.5	4068.8	3934.1	4161.5	4269.7	4717.8	5488.3
50°	3894.3	3923.0	3993.7	4119.5	4263.0	4333.7	4112.9	4265.2	4386.7	4797.3	5570.0
52.5°	3737.6	3768.5	3883.3	4026.8	4267.4	4428.6	4364.6	4481.6	4598.6	4938.6	5706.9
55°	3357.9	3404.2	3565.4	3803.8	4135.0	4377.8	4629.5	4799.5	4927.5	5108.6	5848.1
57.5°	2806.0	2854.5	3035.6	3393.2	3889.9	4168.1	4706.8	5395.6	5453.0	5311.7	5861.4
60°	*2101.7*	*2141.5*	*2397.5*	*2684.5*	*3267.4*	*3784.0*	*4662.6*	*5960.7*	*6106.4*	*5276.4*	*5439.7*
62.5°	1664.6	1713.2	1940.6	2073.0	2490.3	3126.1	4508.1	6117.5	6243.3	4984.9	4852.5
65°	1300.3	1333.4	1545.4	1735.2	1836.8	2134.8	3863.4	5351.4	5464.0	4510.3	4004.7
67.5°	858.8	909.6	1161.2	1421.7	1474.7	1357.7	2658.0	4117.3	4170.3	3585.3	3011.3
70°	615.9	640.2	827.9	1106.0	1185.5	909.6	1448.2	3117.2	3132.7	2406.4	2028.9
72.5°	419.5	423.9	563.0	847.7	944.9	660.1	797.0	2053.1	2000.2	1187.7	1161.2
75°	284.8	289.2	359.9	565.2	668.9	459.2	518.8	1119.3	1075.1	655.7	704.3
77.5°	192.1	196.5	247.3	379.7	446.0	317.9	379.7	591.7	580.6	434.9	377.5
80°	145.7	152.3	183.2	242.8	311.3	185.4	216.4	280.4	284.8	231.8	192.1
82.5°	81.7	90.5	110.4	123.6	200.9	103.8	103.8	167.8	161.2	143.5	103.8
85°	35.3	37.5	44.2	46.4	81.7	44.2	37.5	72.9	75.1	70.6	33.1
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8	8.8	8.8
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°	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1563.0	1576.3	1563.0	1556.4	1556.4	1545.4	1541.0	1541.0	1525.5	1532.1	1527.7
5°	1598.4	1602.8	1587.3	1567.5	1541.0	1518.9	1488.0	1448.2	1424.0	1421.7	1424.0
7.5°	1653.6	1655.8	1613.8	1569.7	1503.4	1424.0	1329.0	1251.8	1183.3	1172.3	1185.5
10°	1730.8	1726.4	1664.6	1560.8	1421.7	1254.0	1108.3	1037.6	997.9	995.7	993.5
12.5°	1834.6	1805.9	1711.0	1523.3	1280.5	1086.2	1011.1	1006.7	1017.7	1026.6	1028.8
15°	1953.8	1916.3	1748.5	1450.4	1137.0	1024.4	1028.8	1066.3	1079.6	1088.4	1088.4
17.5°	2101.7	2053.1	1790.4	1346.7	1064.1	1037.6	1068.5	1103.8	1125.9	1134.7	1132.5
20°	2298.2	2196.6	1823.5	1247.3	1044.2	1059.7	1086.2	1121.5	1143.6	1154.6	1154.6
22.5°	2494.7	2368.8	1830.2	1178.9	1044.2	1061.9	1086.2	1121.5	1145.8	1156.8	1154.6
25°	2761.8	2589.6	1832.4	1130.3	1046.4	1050.9	1072.9	1103.8	1139.2	1150.2	1154.6
27.5°	3046.6	2832.5	1843.4	1119.3	1037.6	1035.4	1050.9	1079.6	1114.9	1143.6	1145.8
30°	3399.8	3106.2	1847.8	1130.3	1039.8	1011.1	1022.2	1050.9	1088.4	1117.1	1125.9
32.5°	3746.4	3360.1	1839.0	1154.6	1044.2	995.7	997.9	1015.5	1055.3	1075.1	1090.6
35°	4112.9	3629.4	1823.5	1187.7	1046.4	989.0	969.2	978.0	1004.5	1006.7	1013.3
37.5°	4399.9	3830.3	1777.2	1231.9	1050.9	964.8	925.0	918.4	907.4	885.3	889.7
40°	4636.1	3965.0	1699.9	1254.0	1039.8	936.1	869.8	838.9	797.0	763.9	770.5
42.5°	4806.1	4055.5	1607.2	1258.4	1022.2	887.5	805.8	752.8	706.5	671.1	673.3
45°	4881.2	4046.7	1507.8	1225.3	980.2	827.9	746.2	695.4	644.6	607.1	602.7
47.5°	4883.4	3960.6	1371.0	1145.8	909.6	759.4	691.0	635.8	593.9	567.4	565.2
50°	4901.1	3912.0	1242.9	1031.0	816.8	686.6	642.4	587.2	563.0	525.4	514.4
52.5°	5011.4	3991.5	1154.6	905.1	730.7	633.6	600.5	551.9	512.2	487.9	485.7
55°	5190.3	4128.4	1106.0	810.2	649.1	582.8	560.8	518.8	483.5	459.2	452.6
57.5°	5212.3	4199.0	1048.6	721.9	582.8	543.1	534.3	487.9	437.1	419.5	412.8
60°	*4903.3*	*4079.8*	*978.0*	*640.2*	*534.3*	*512.2*	*507.8*	*446.0*	*404.0*	*381.9*	*373.1*
62.5°	4481.6	3781.8	869.8	565.2	496.7	481.3	463.6	415.0	362.1	337.8	331.2
65°	3662.5	3179.1	739.6	514.4	459.2	441.5	437.1	370.9	335.6	322.3	320.1
67.5°	2775.1	2554.3	651.3	476.9	419.5	412.8	397.4	375.3	359.9	344.4	340.0
70°	1962.6	1843.4	554.1	428.3	379.7	368.7	432.7	408.4	353.2	333.4	331.2
72.5°	1189.9	1156.8	479.1	384.1	326.7	344.4	399.6	368.7	317.9	293.6	284.8
75°	750.6	686.6	401.8	326.7	260.5	280.4	348.8	328.9	273.8	249.5	242.8
77.5°	408.4	379.7	302.5	267.1	205.3	227.4	304.7	271.5	218.6	238.4	211.9
80°	178.8	198.7	200.9	154.5	136.9	167.8	218.6	211.9	167.8	170.0	141.3
82.5°	86.1	112.6	130.3	106.0	77.3	99.3	145.7	121.4	112.6	106.0	101.6
85°	26.5	41.9	57.4	50.8	35.3	41.9	68.4	66.2	79.5	68.4	64.0
87.5°	8.8	8.8	6.6	6.6	6.6	8.8	11.0	6.6	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°	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1525.5	1527.7	1527.7	1529.9	1529.9	1536.5	1545.4	1554.2	1547.6	1556.4	1558.6
5°	1419.5	1430.6	1439.4	1472.5	1499.0	1521.1	1545.4	1567.5	1574.1	1578.5	1589.5
7.5°	1170.1	1201.0	1258.4	1333.4	1417.3	1499.0	1554.2	1611.6	1620.4	1631.5	1646.9
10°	995.7	1008.9	1048.6	1125.9	1276.0	1437.2	1571.9	1662.4	1699.9	1722.0	1737.4
12.5°	1024.4	1015.5	1008.9	1019.9	1117.1	1324.6	1560.8	1735.2	1805.9	1830.2	1850.0
15°	1092.8	1084.0	1059.7	1028.8	1039.8	1205.4	1523.3	1803.7	1916.3	1956.0	1998.0
17.5°	1132.5	1123.7	1103.8	1070.7	1042.0	1106.0	1452.7	1865.5	2090.7	2139.2	2198.8
20°	1154.6	1145.8	1125.9	1092.8	1059.7	1068.5	1362.1	1942.8	2289.4	2366.6	2454.9
22.5°	1159.0	1148.0	1125.9	1092.8	1072.9	1066.3	1276.0	1989.1	2503.5	2622.7	2724.3
25°	1156.8	1137.0	1108.3	1084.0	1072.9	1070.7	1216.4	2015.6	2735.3	2925.2	3040.0
27.5°	1141.4	1117.1	1088.4	1070.7	1066.3	1079.6	1189.9	2046.5	3006.9	3249.7	3432.9
30°	1123.7	1088.4	1053.1	1046.4	1057.5	1099.4	1212.0	2057.6	3291.7	3602.9	3790.6
32.5°	1077.3	1050.9	1015.5	1013.3	1039.8	1114.9	1262.8	2042.1	3543.3	3956.2	4192.4
35°	1011.1	995.7	975.8	982.4	1024.4	1128.1	1298.1	1993.5	3772.9	4285.1	4561.1
37.5°	894.1	905.1	916.2	931.6	984.6	1125.9	1313.6	1916.3	3962.8	4547.8	4901.1
40°	763.9	801.4	836.7	876.4	947.1	1108.3	1318.0	1821.3	4073.2	4746.5	5203.5
42.5°	682.2	717.5	761.6	819.0	896.3	1068.5	1313.6	1715.4	4108.5	4883.4	5395.6
45°	607.1	649.1	704.3	763.9	852.2	1011.1	1273.8	1600.6	4126.2	4947.4	5477.3
47.5°	567.4	591.7	642.4	702.0	794.8	940.5	1196.6	1516.7	4099.7	4960.7	5576.6
50°	521.0	554.1	587.2	644.6	735.2	852.2	1103.8	1468.1	4143.8	5090.9	5733.3
52.5°	485.7	503.4	538.7	591.7	657.9	770.5	1015.5	1428.4	4265.2	5223.4	5896.7
55°	459.2	479.1	501.1	545.3	596.1	688.8	925.0	1368.8	4406.5	5364.7	6060.1
57.5°	417.3	430.5	461.4	507.8	540.9	609.3	819.0	1298.1	4395.5	5254.3	5777.5
60°	*379.7*	*393.0*	*426.1*	*472.4*	*492.3*	*538.7*	*715.3*	*1207.6*	*4183.6*	*4894.4*	*5256.5*
62.5°	337.8	353.2	393.0	426.1	443.7	479.1	607.1	1042.0	3742.0	4353.5	4647.2
65°	320.1	328.9	355.4	395.2	393.0	426.1	512.2	819.0	3011.3	3327.0	3594.1
67.5°	340.0	353.2	348.8	359.9	353.2	370.9	459.2	657.9	2366.6	2505.7	2660.3
70°	335.6	366.5	381.9	359.9	309.1	328.9	397.4	525.4	1693.3	1680.0	1673.4
72.5°	293.6	324.5	368.7	390.8	302.5	273.8	344.4	454.8	1086.2	1081.8	978.0
75°	249.5	271.5	324.5	353.2	260.5	220.8	295.8	386.3	649.1	657.9	587.2
77.5°	229.6	218.6	271.5	311.3	211.9	170.0	238.4	291.4	357.6	362.1	335.6
80°	165.6	159.0	203.1	227.4	161.2	121.4	134.7	181.0	192.1	172.2	178.8
82.5°	106.0	108.2	121.4	145.7	99.3	66.2	92.7	121.4	103.8	83.9	99.3
85°	68.4	77.3	64.0	75.1	30.9	30.9	39.7	53.0	35.3	24.3	26.5
87.5°	0.0	0.0	4.4	8.8	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: P1501378
CATALOG NUMBER: GSS-SB2B-727-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1558.6	1558.6	*1558.6*	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6	1558.6
2.5°	1565.2	1563.0	*1563.0*	1567.5	1578.5	1582.9	1589.5	1587.3	1593.9	1589.5
5°	1596.2	1598.4	*1605.0*	1607.2	1613.8	1622.6	1624.9	1622.6	1627.1	1627.1
7.5°	1658.0	1666.8	*1662.4*	1673.4	1664.6	1653.6	1635.9	1622.6	1611.6	1616.0
10°	1761.7	1757.3	*1755.1*	1735.2	1695.5	1638.1	1591.7	1541.0	1532.1	1523.3
12.5°	1876.5	1872.1	*1872.1*	1803.7	1691.1	1571.9	1465.9	1386.4	1359.9	1357.7
15°	2037.7	2009.0	*1982.5*	1839.0	1613.8	1410.7	1287.1	1225.3	1209.8	1209.8
17.5°	2238.6	2163.5	*2119.4*	1812.5	1488.0	1304.7	1231.9	1216.4	1212.0	1223.1
20°	2488.1	2298.2	*2234.2*	1752.9	1441.6	1318.0	1282.7	1284.9	1287.1	1302.5
22.5°	2761.8	2421.8	*2315.9*	1752.9	1488.0	1401.9	1384.2	1408.5	1415.1	1428.4
25°	3066.5	2532.2	*2388.7*	1845.6	1624.9	1560.8	1538.8	1563.0	1580.7	1602.8
27.5°	3408.7	2647.0	*2514.5*	2013.4	1801.5	1761.7	1737.4	1748.5	1772.8	1799.3
30°	3715.5	2839.1	*2706.6*	2269.5	2042.1	1993.5	1951.6	1969.3	1995.7	2013.4
32.5°	3987.1	3073.1	*2960.5*	2538.8	2318.1	2234.2	2187.8	2183.4	2236.4	2223.1
35°	4236.5	3349.1	*3240.9*	2845.7	2598.4	2494.7	2432.9	2512.3	2477.0	2490.3
37.5°	4433.0	3636.0	*3550.0*	3139.3	2889.9	2748.6	2711.0	2808.2	2863.4	2878.8
40°	4594.2	3885.5	*3795.0*	3430.7	3157.0	3053.2	3112.8	3274.0	3267.4	3260.7
42.5°	4717.8	4099.7	*4000.3*	3651.5	3413.1	3432.9	3479.3	3587.5	3614.0	3576.4
45°	4773.0	4234.3	*4154.9*	3825.9	3704.5	3819.3	3839.2	3885.5	3867.9	3843.6
47.5°	4837.0	4353.5	*4269.7*	3984.9	4020.2	4132.8	4093.0	4055.5	3991.5	3954.0
50°	4945.2	4494.8	*4424.2*	4216.7	4344.7	4307.2	4152.6	4068.8	3938.5	3894.3
52.5°	5150.5	4762.0	*4709.0*	4583.1	4497.0	4280.7	4093.0	3942.9	3797.2	3737.6
55°	5333.8	5124.0	*5093.1*	4925.3	4450.7	4141.6	3889.9	3658.1	3408.7	3357.9
57.5°	5439.7	5724.5	*5759.8*	5071.0	4238.7	3825.9	3455.0	3084.1	2847.9	2806.0
60°	*5124.0*	*6373.6*	*6391.2*	*5042.3*	*3856.8*	*3256.3*	*2691.2*	*2428.4*	*2174.6*	*2101.7*
62.5°	4689.1	6238.9	*6223.5*	4870.1	3070.9	2375.5	2044.3	1920.7	1724.2	1664.6
65°	4031.2	5196.9	*5214.5*	4207.8	2042.1	1717.6	1717.6	1560.8	1342.3	1300.3
67.5°	3285.0	4006.9	*3967.2*	2728.7	1254.0	1375.4	1441.6	1216.4	909.6	858.8
70°	2134.8	3059.8	*3004.7*	1574.1	788.1	1145.8	1134.7	914.0	651.3	615.9
72.5°	918.4	1768.4	*1880.9*	803.6	593.9	922.8	905.1	640.2	434.9	419.5
75°	554.1	889.7	*969.2*	512.2	432.7	695.4	627.0	406.2	295.8	284.8
77.5°	351.0	487.9	*483.5*	384.1	324.5	470.2	421.7	280.4	200.9	192.1
80°	203.1	240.6	*249.5*	240.6	218.6	335.6	269.3	203.1	156.7	145.7
82.5°	130.3	150.1	*152.3*	117.0	121.4	216.4	145.7	119.2	90.5	81.7
85°	57.4	64.0	*61.8*	39.7	39.7	88.3	50.8	48.6	35.3	35.3
87.5°	2.2	4.4	*2.2*	2.2	2.2	8.8	4.4	6.6	6.6	6.6
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

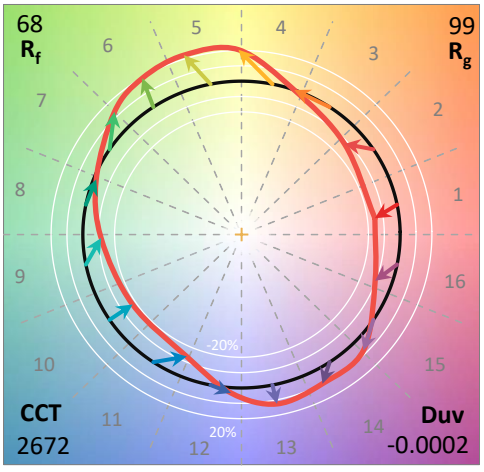
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-3
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-727-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672
CIE u':	0.2638
CIE v':	0.5276
Duv:	-0.0002
CIE x:	0.4619
CIE y:	0.4106
CIE z:	0.1275
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	584
Purity:	61.88407
Rf:	67.9
Rg:	98.6

CRI (Ra):	71.1
R1:	68.3
R2:	79.8
R3:	91.2
R4:	69.4
R5:	66.5
R6:	72.6
R7:	77.0
R8:	44.1
R9:	-27.8
R10:	54.4
R11:	65.8
R12:	45.6
R13:	69.8
R14:	94.5
R15:	60.1



Test Conditions

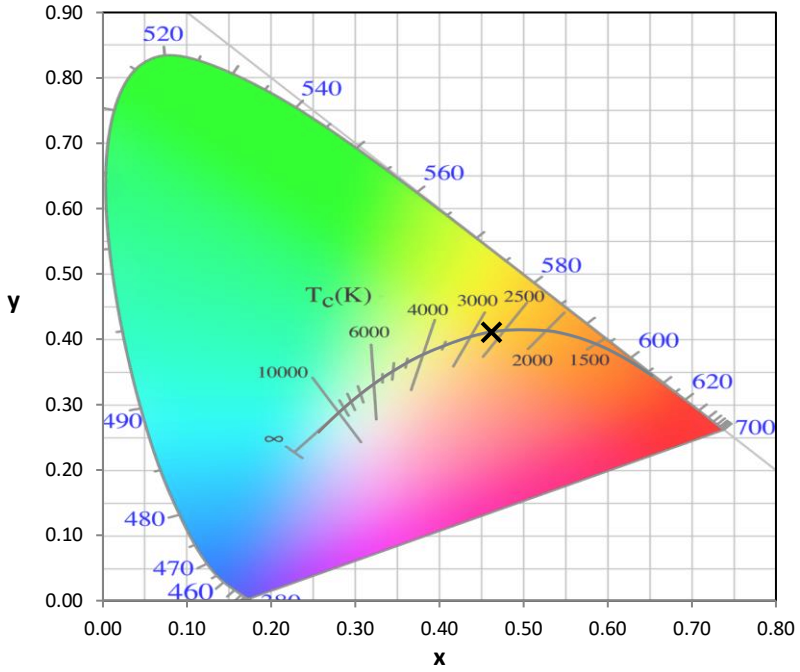
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

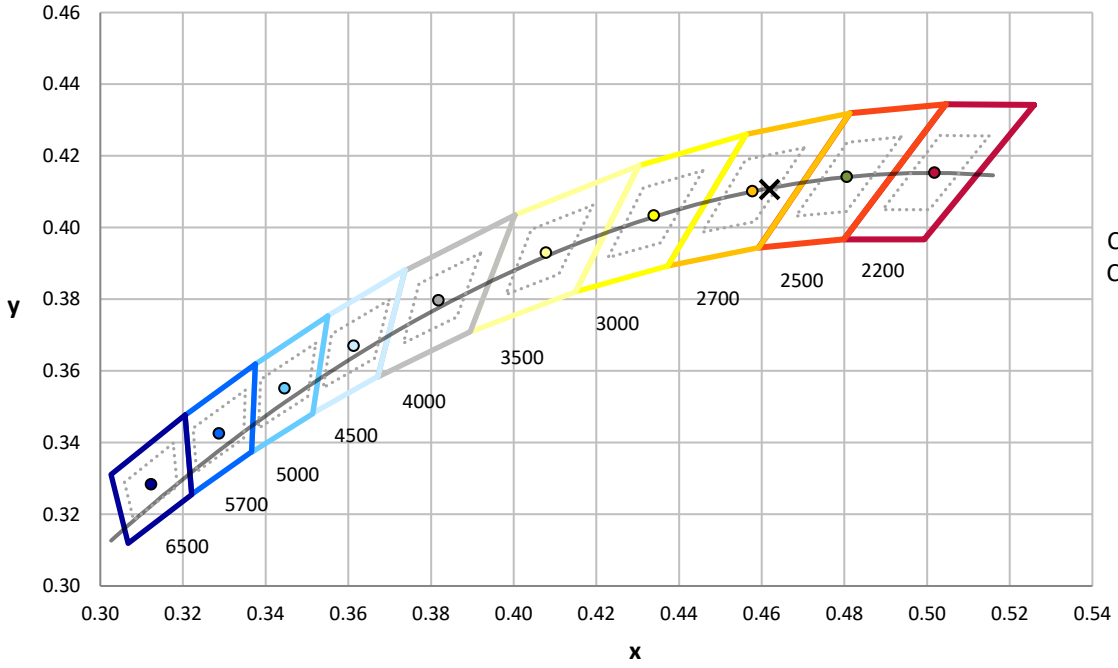
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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

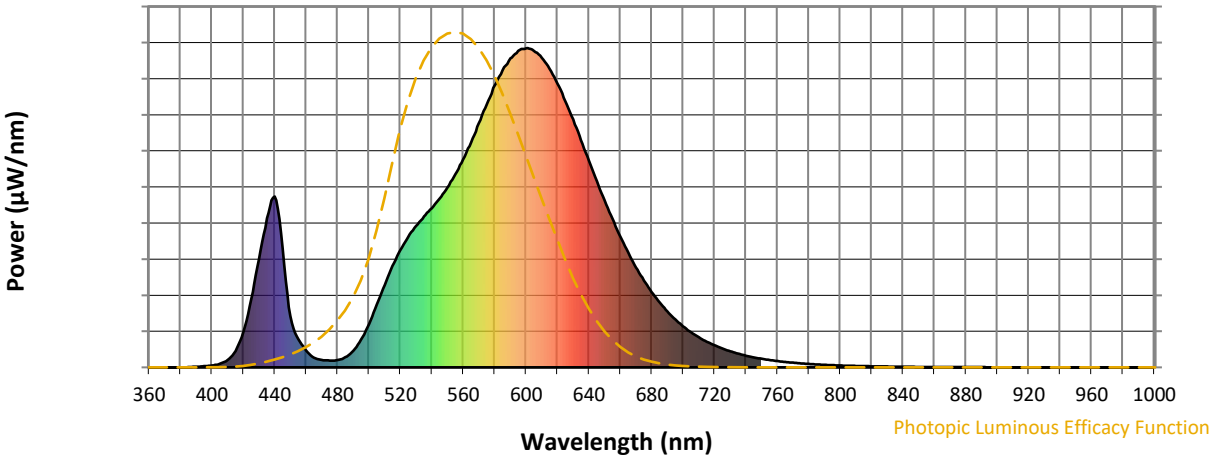


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

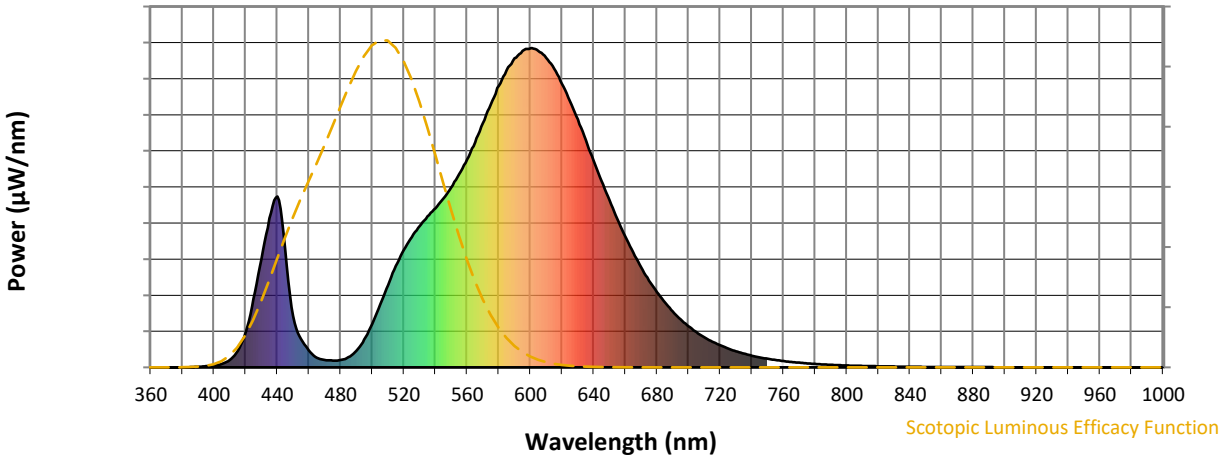


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength

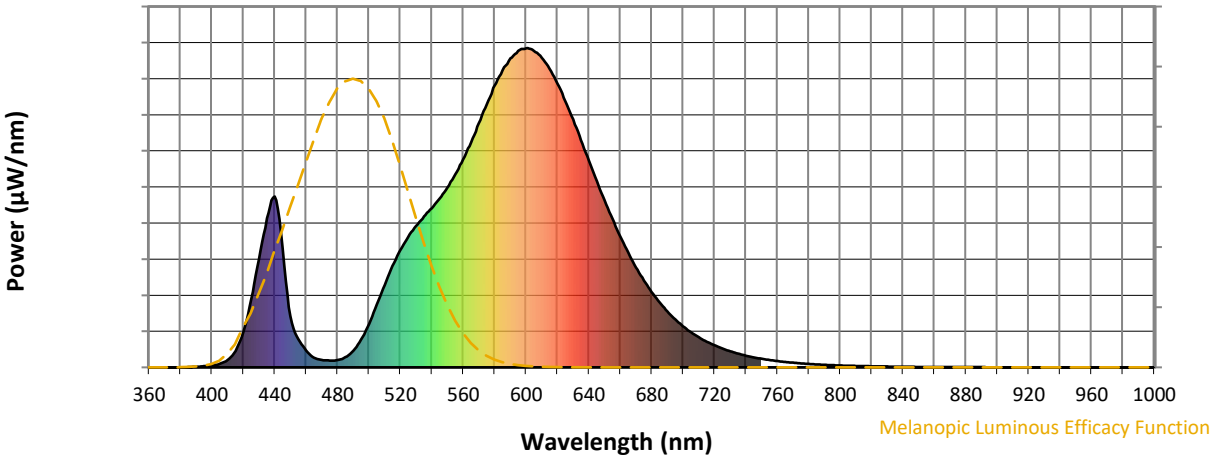


Scotopic Lumens: NR **S/P: 1.02**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.71**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

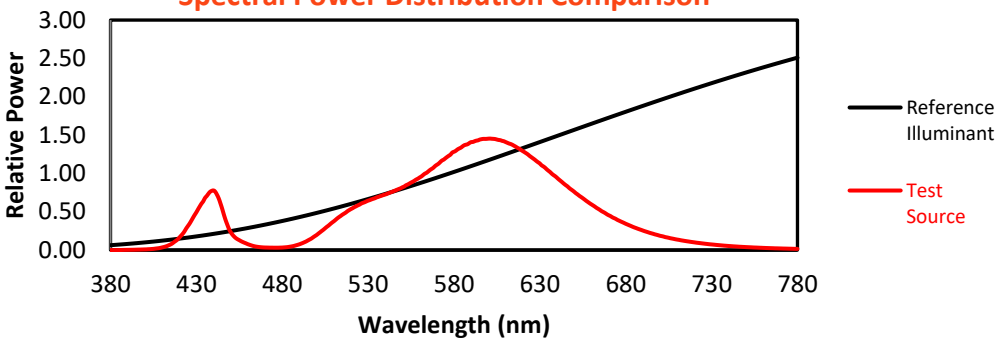
REPORT NUMBER: SP1-2407-184-3

TM-30-18

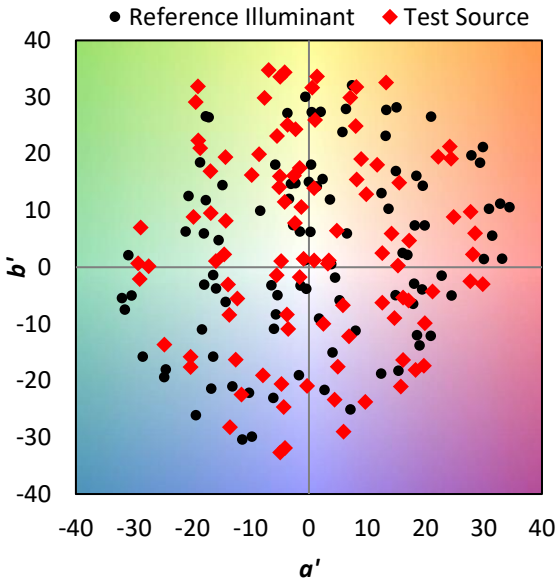
Summary

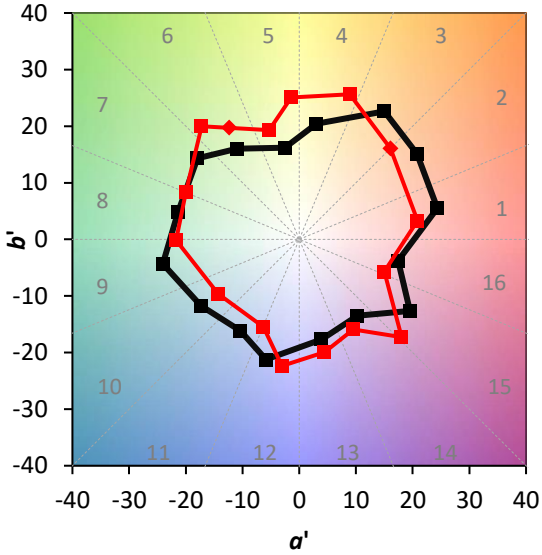
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R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

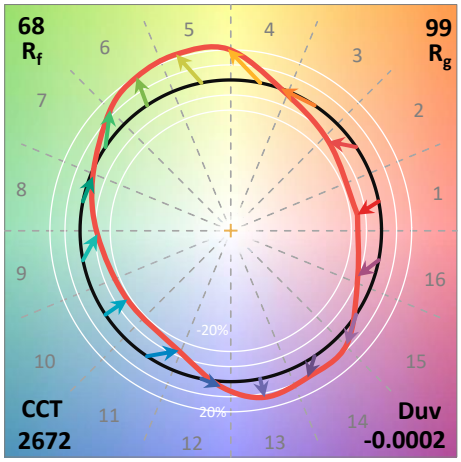
Spectral Power Distribution Comparison

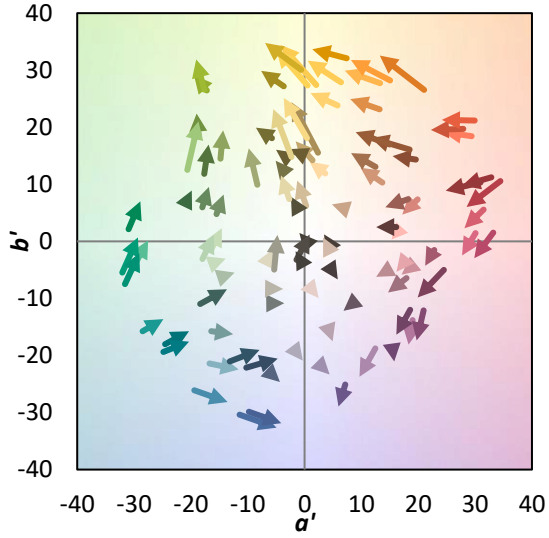


Color Vector Graphics







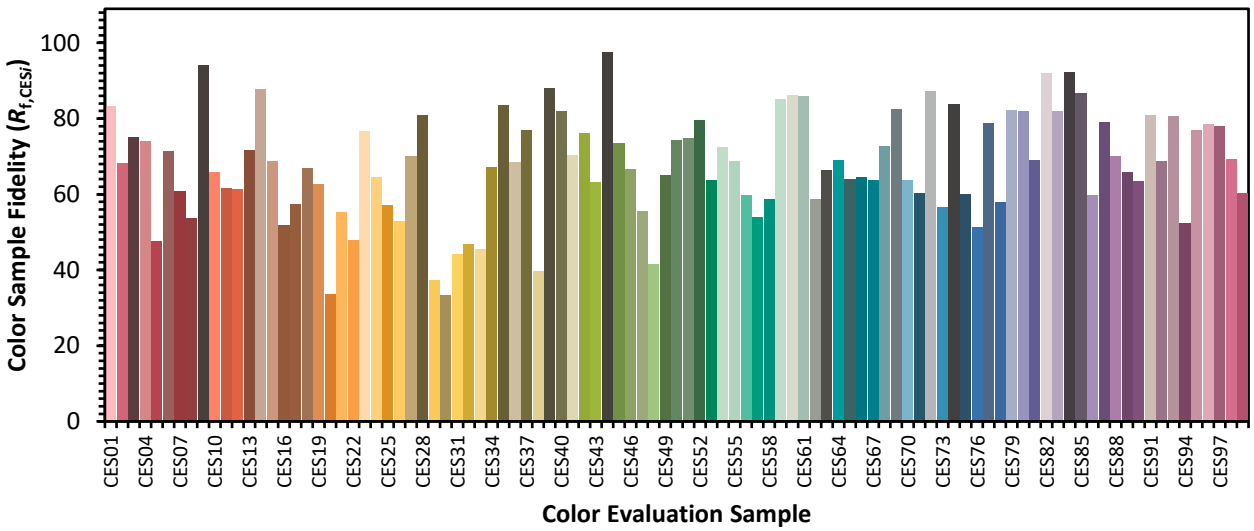


REPORT NUMBER: SP1-2407-184-3

TM-30-18

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

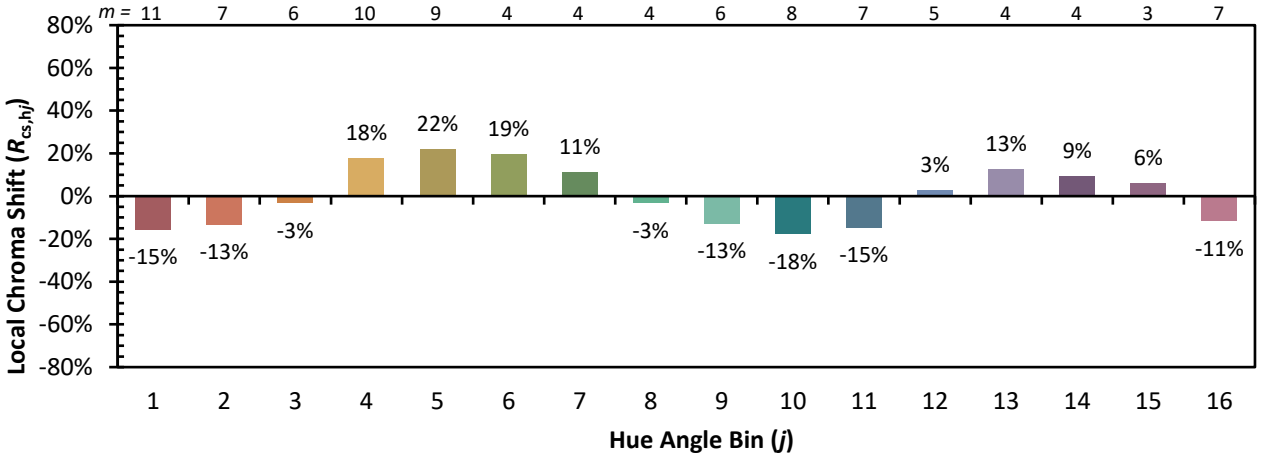
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CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	

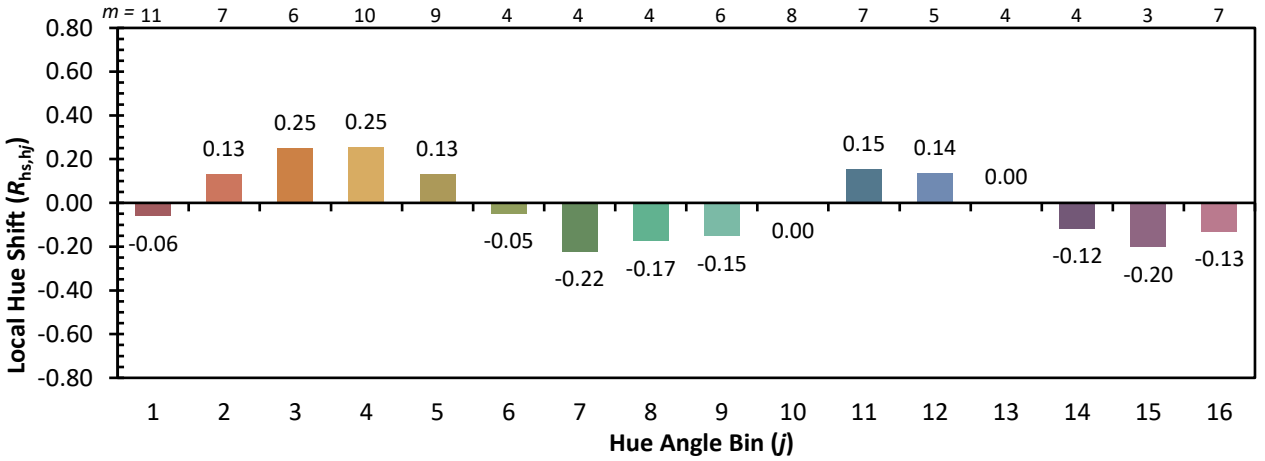


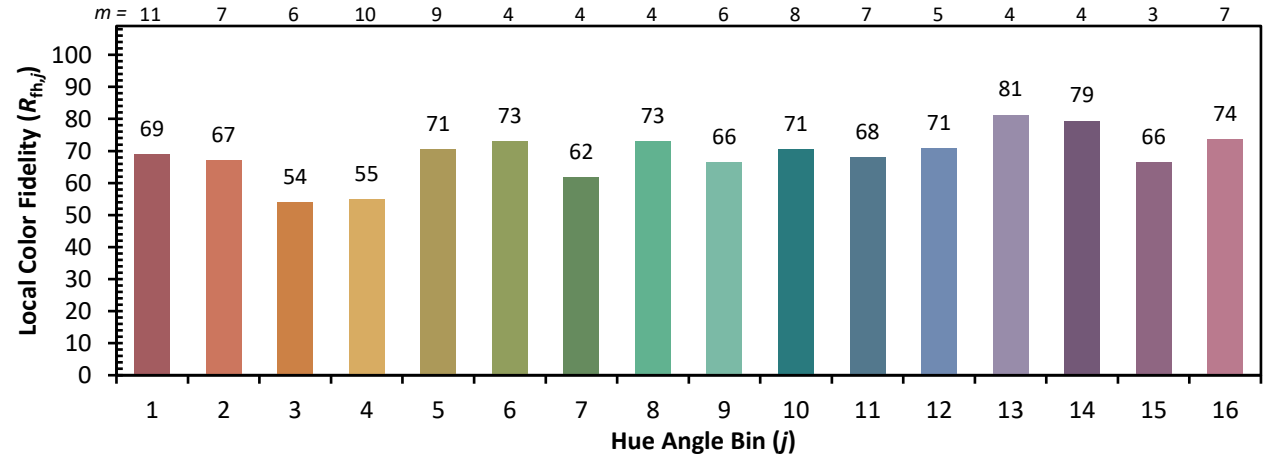
REPORT NUMBER: SP1-2407-184-3

TM-30-18

Color Rendition by Hue-Angle Bin



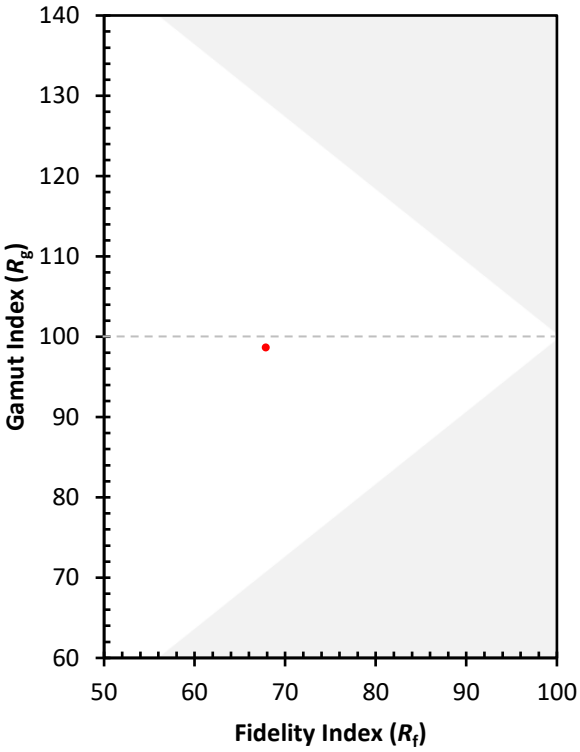


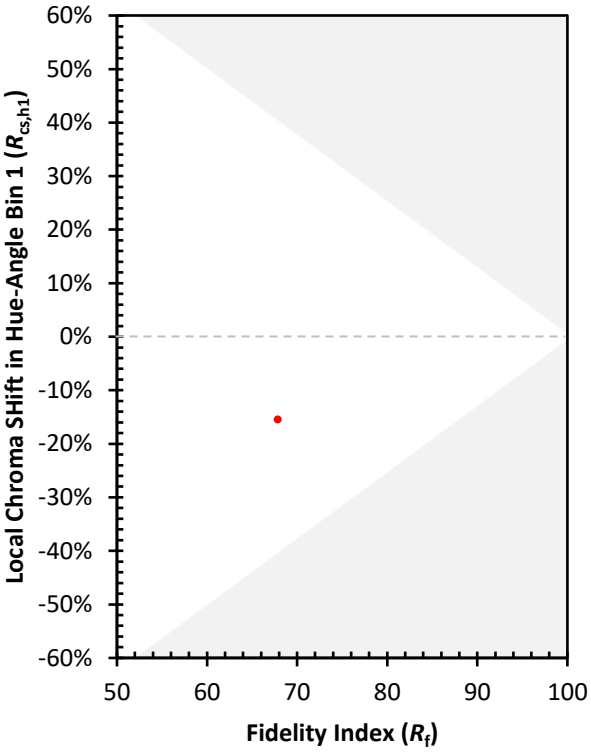


REPORT NUMBER: SP1-2407-184-3

TM-30-18

Measure Comparisons





(END OF REPORT)