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: P1501737

Luminaire Tested: GSS-SB2A-722-U-T2LG-HSS

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:	P1501737
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2A-722-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 58W 70CRI 2200K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(52) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5573.1 lumens
Efficiency:	N/A
Efficacy:	96.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

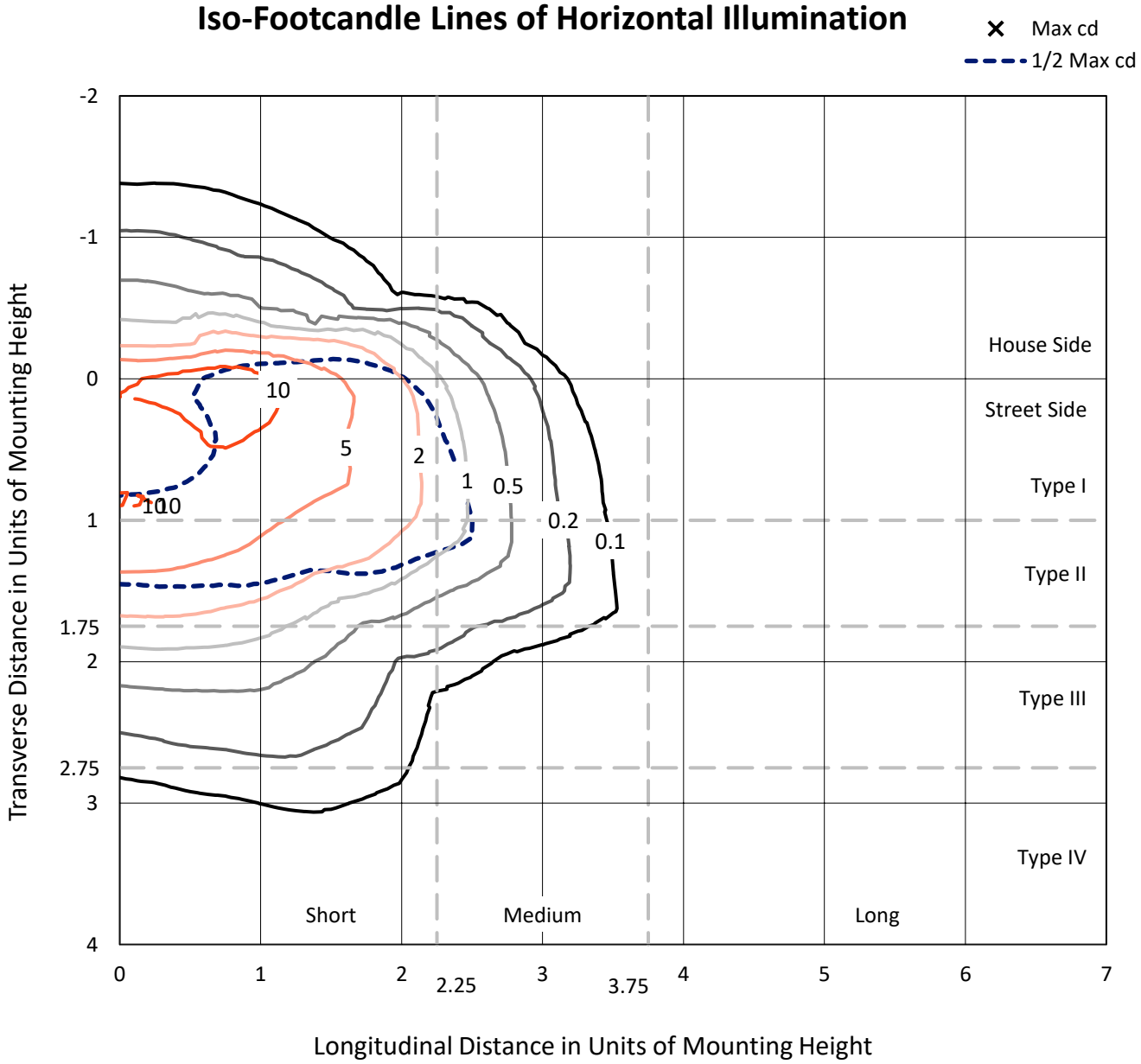
Input Watts (W):	58
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



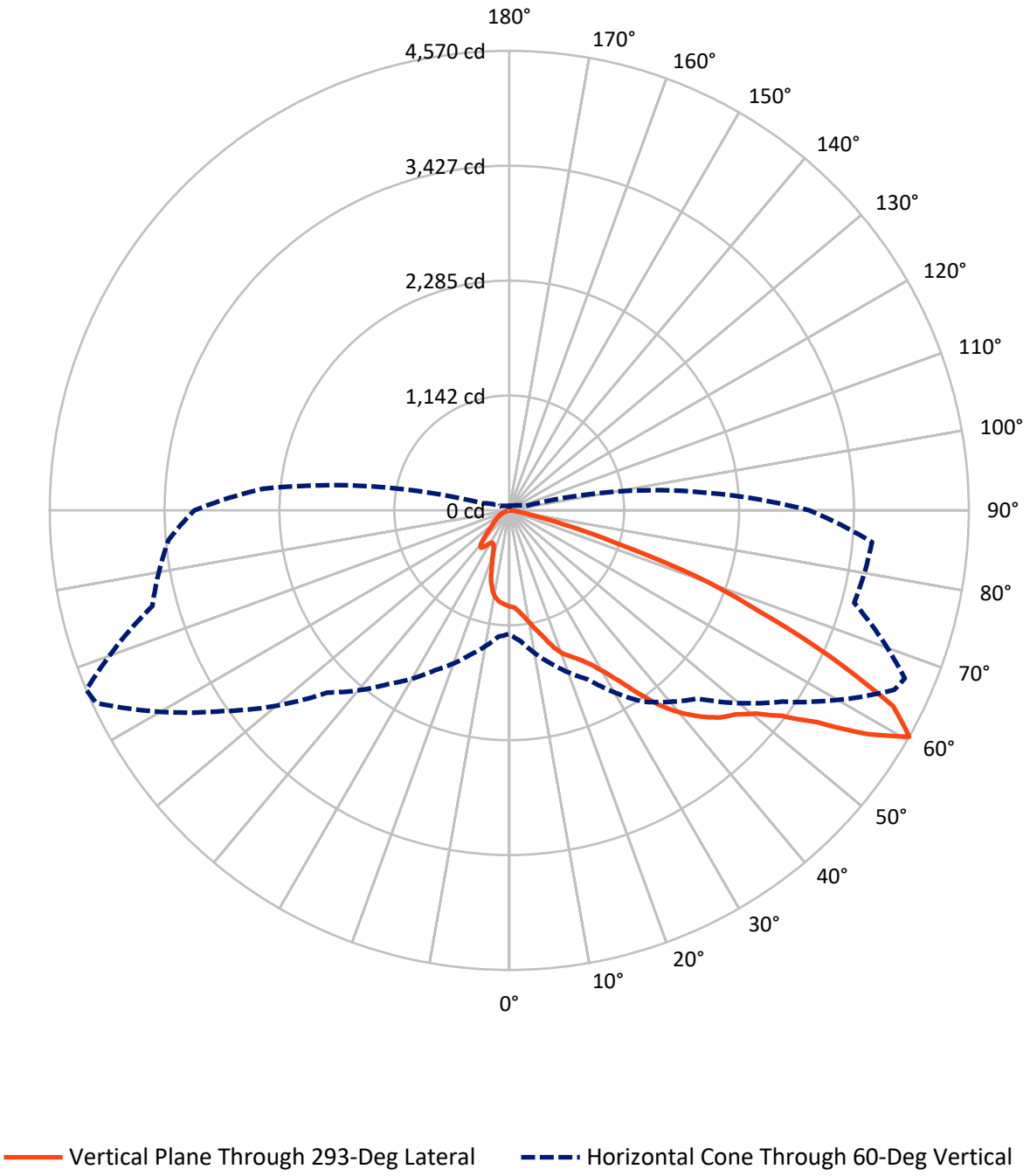
Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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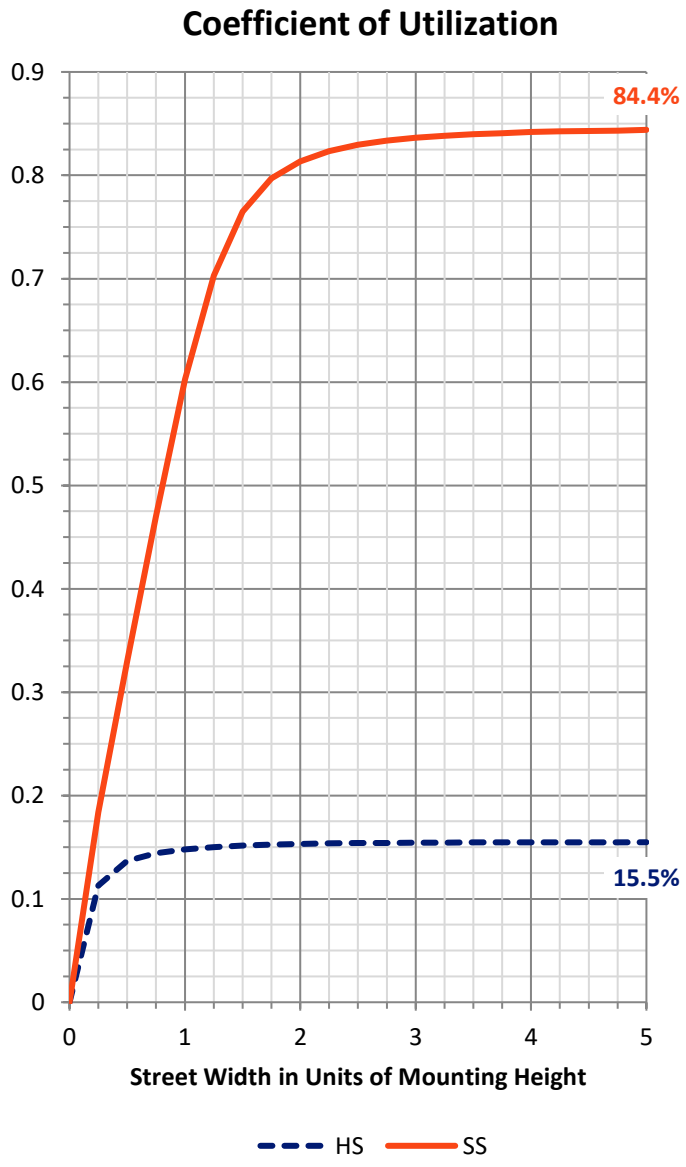
REPORT NUMBER: P1501737
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	869.5	0.0	869.5
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	4703.6	0.0	4703.6
	% Fixture	84.4	0.0	84.4
Total	Lumens	5573.1	0.0	5573.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	1.6
10°-20°	217.8	3.9
20°-30°	406.6	7.3
30°-40°	806.4	14.5
40°-50°	1285.7	23.1
50°-60°	1536.1	27.6
60°-70°	1007.0	18.1
70°-80°	211.0	3.8
80°-90°	16.0	0.3
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°	5573.1	100.0
0°-180°	5573.1	100.0



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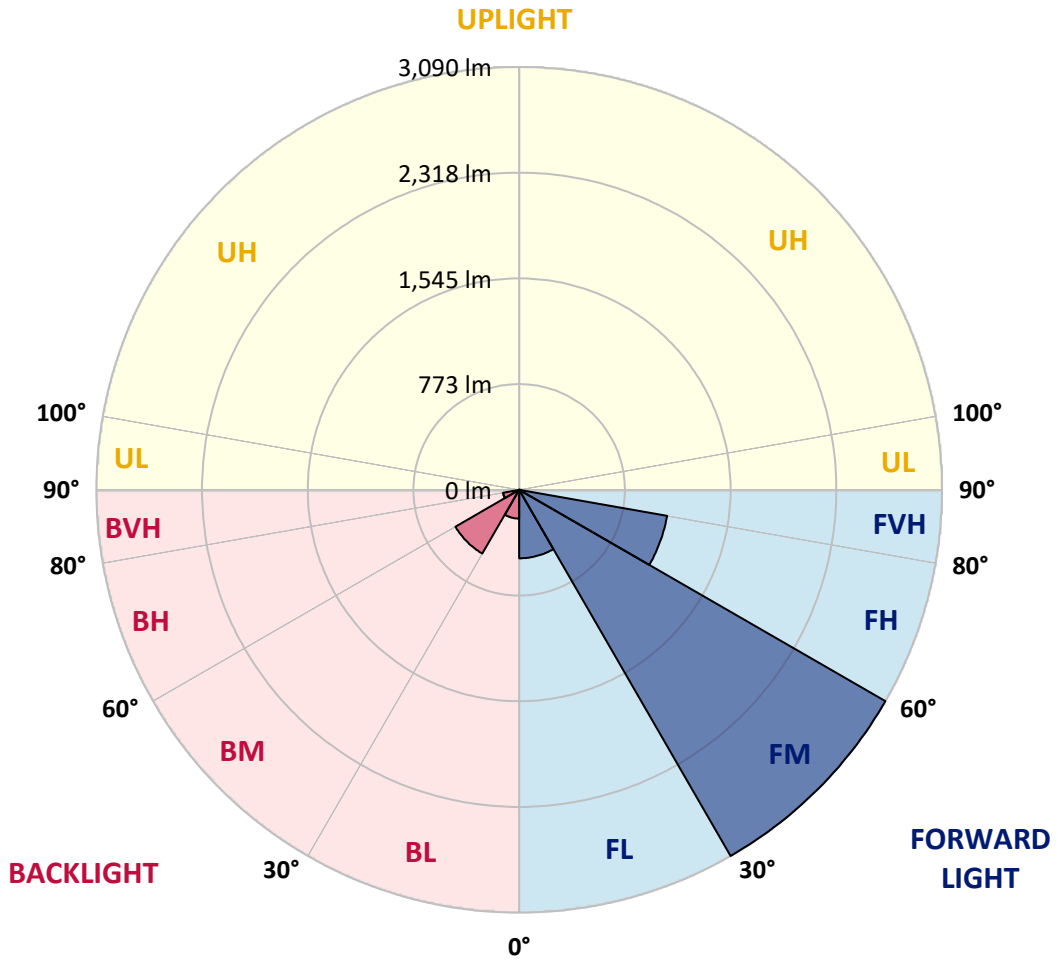
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	500.6	9.0			
FM	(30°-60°)	3090.5	55.5			
FH	(60°-80°)	1097.9	19.7			G1/1800
FVH	(80°-90°)	14.6	0.3			G1/100
BL	(0°-30°)	210.4	3.8	B1/500		
BM	(30°-60°)	537.7	9.6	B1/1000		
BH	(60°-80°)	120.1	2.2	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	1003.6	1000.4	995.8	997.3	995.8	989.5	980.1	972.3	978.6	969.2	963.0
5°	1033.2	1033.2	1030.1	1030.1	1031.6	1028.5	1022.3	1011.4	1012.9	1005.1	984.8
7.5°	1033.2	1028.5	1036.3	1044.1	1058.2	1066.0	1069.1	1062.9	1066.0	1050.4	1023.8
10°	972.3	969.2	989.5	1019.2	1059.7	1095.6	1119.0	1120.6	1125.3	1109.7	1078.5
12.5°	842.8	836.6	877.1	933.3	1016.0	1098.8	1164.3	1189.3	1200.2	1194.0	1150.3
15°	722.6	730.4	758.5	819.4	930.2	1056.6	1189.3	1272.0	1287.6	1295.4	1243.9
17.5°	710.1	711.7	721.1	750.7	835.0	987.9	1192.4	1357.8	1379.7	1414.0	1343.8
20°	744.5	741.4	750.7	760.1	800.7	927.1	1162.8	1440.6	1482.7	1556.1	1479.6
22.5°	808.5	808.5	813.1	819.4	839.7	922.4	1150.3	1517.0	1588.8	1738.7	1649.7
25°	916.2	903.7	906.8	899.0	916.2	978.6	1178.4	1577.9	1676.2	1941.6	1852.6
27.5°	1083.2	1087.8	1059.7	1017.6	1027.0	1080.0	1247.0	1646.6	1766.8	2152.3	2058.6
30°	1314.1	1306.3	1289.2	1206.5	1169.0	1215.8	1373.4	1759.0	1888.5	2419.1	2333.3
32.5°	1495.2	1517.0	1487.4	1429.6	1371.9	1385.9	1551.4	1940.0	2036.8	2664.2	2617.4
35°	1713.7	1713.7	1719.9	1638.8	1599.8	1596.6	1774.6	2136.7	2233.4	2885.8	2918.6
37.5°	2008.7	1988.4	1954.0	1863.5	1833.9	1872.9	1983.7	2339.5	2444.1	3065.3	3152.7
40°	2256.8	2270.9	2266.2	2135.1	2077.3	2119.5	2217.8	2512.8	2593.9	3180.8	3341.5
42.5°	2500.3	2508.1	2487.8	2425.4	2341.1	2344.2	2425.4	2643.9	2726.6	3291.6	3519.5
45°	2682.9	2681.3	2667.3	2651.7	2601.8	2550.2	2564.3	2789.0	2860.8	3327.5	3616.2
47.5°	2740.7	2753.1	2765.6	2809.3	2843.7	2762.5	2690.7	2867.1	2932.6	3321.3	3652.1
50°	2687.6	2714.1	2775.0	2840.5	2957.6	2951.4	2796.8	2951.4	3015.3	3355.6	3694.3
52.5°	2569.0	2595.5	2676.7	2795.3	2971.6	3059.0	2993.5	3093.4	3168.3	3443.0	3781.7
55°	2292.7	2303.7	2470.6	2626.7	2901.4	3012.2	3204.2	3333.7	3396.2	3549.1	3897.2
57.5°	1866.6	1893.2	2057.1	2311.5	2704.8	2888.9	3324.4	3744.2	3742.7	3650.6	3922.1
60°	*1228.3*	*1306.3*	*1573.2*	*1854.2*	*2323.9*	*2647.0*	*3316.6*	*4224.9*	*4273.3*	*3550.7*	*3620.9*
62.5°	938.0	970.8	1122.2	1356.3	1719.9	2194.4	3265.1	4368.5	4406.0	3282.2	3169.9
65°	705.5	746.0	891.2	1100.3	1214.3	1487.4	2927.9	3797.3	3848.8	2929.5	2464.4
67.5°	432.3	465.1	658.6	903.7	919.3	924.0	1975.9	2876.4	2895.2	2363.0	1659.1
70°	288.7	321.5	455.7	694.5	732.0	532.2	1084.7	2177.2	2175.7	1616.9	1008.2
72.5°	167.0	182.6	288.7	511.9	575.9	338.7	541.6	1384.4	1323.5	760.1	471.3
75°	95.2	106.1	159.2	329.3	404.2	215.4	213.8	741.4	655.5	391.7	257.5
77.5°	57.7	62.4	87.4	215.4	243.5	145.1	118.6	344.9	332.4	229.4	135.8
80°	28.1	32.8	53.1	126.4	156.1	78.0	71.8	135.8	145.1	126.4	71.8
82.5°	9.4	12.5	29.7	48.4	101.4	31.2	29.7	74.9	79.6	74.9	34.3
85°	4.7	6.2	14.0	15.6	39.0	15.6	10.9	32.8	40.6	25.0	14.0
87.5°	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1	3.1
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°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	958.3	955.2	948.9	938.0	936.4	928.6	916.2	908.3	902.1	906.8	908.3
5°	975.5	967.7	948.9	919.3	888.1	856.8	827.2	792.9	769.4	766.3	760.1
7.5°	1006.7	991.1	950.5	892.7	813.1	738.2	650.8	566.5	524.4	518.2	504.1
10°	1056.6	1030.1	963.0	845.9	693.0	536.9	404.2	313.7	262.2	252.8	256.0
12.5°	1115.9	1078.5	964.5	766.3	527.5	332.4	229.4	195.1	184.2	179.5	179.5
15°	1192.4	1137.8	963.0	663.3	355.8	213.8	184.2	170.1	165.4	162.3	162.3
17.5°	1289.2	1217.4	952.1	508.8	240.4	185.7	168.6	157.6	151.4	149.8	149.8
20°	1403.1	1306.3	927.1	379.3	201.3	173.2	159.2	145.1	140.5	137.3	137.3
22.5°	1548.3	1414.0	878.7	295.0	190.4	165.4	149.8	134.2	129.5	126.4	126.4
25°	1716.8	1551.4	814.7	265.3	188.8	159.2	140.5	124.9	120.2	118.6	117.1
27.5°	1916.6	1698.1	755.4	266.9	192.0	154.5	131.1	117.1	112.4	107.7	109.3
30°	2152.3	1849.5	707.0	285.6	195.1	149.8	124.9	112.4	107.7	101.4	101.4
32.5°	2384.8	2027.4	702.3	320.0	206.0	146.7	118.6	106.1	101.4	96.8	96.8
35°	2623.6	2189.7	728.9	365.2	227.9	142.0	110.8	99.9	95.2	92.1	90.5
37.5°	2851.5	2319.3	753.8	393.3	215.4	121.7	101.4	92.1	87.4	81.2	81.2
40°	3002.9	2389.5	758.5	371.5	177.9	109.3	92.1	82.7	76.5	73.4	71.8
42.5°	3113.7	2434.8	705.5	301.2	154.5	99.9	84.3	74.9	70.2	67.1	67.1
45°	3158.9	2419.1	614.9	229.4	142.0	92.1	76.5	68.7	65.6	62.4	62.4
47.5°	3152.7	2347.4	522.8	184.2	129.5	84.3	71.8	65.6	62.4	59.3	57.7
50°	3141.8	2280.2	429.2	163.9	115.5	79.6	67.1	62.4	57.7	54.6	53.1
52.5°	3213.6	2258.4	355.8	149.8	107.7	76.5	65.6	59.3	54.6	51.5	51.5
55°	3285.4	2267.8	279.4	140.5	99.9	74.9	64.0	57.7	53.1	48.4	48.4
57.5°	3280.7	2227.2	212.3	131.1	93.6	73.4	62.4	56.2	48.4	45.3	45.3
60°	*2982.6*	*1986.8*	*165.4*	*120.2*	*85.8*	*68.7*	*57.7*	*53.1*	*45.3*	*40.6*	*40.6*
62.5°	2522.2	1562.3	135.8	106.1	76.5	62.4	53.1	48.4	40.6	32.8	32.8
65°	1863.5	1126.9	109.3	92.1	70.2	54.6	48.4	42.1	32.8	26.5	25.0
67.5°	1261.1	693.0	87.4	76.5	62.4	46.8	40.6	35.9	29.7	21.9	20.3
70°	747.6	368.3	64.0	53.1	46.8	34.3	34.3	31.2	25.0	18.7	17.2
72.5°	355.8	128.0	46.8	39.0	35.9	25.0	26.5	26.5	20.3	14.0	12.5
75°	181.0	62.4	31.2	28.1	23.4	18.7	21.9	20.3	14.0	9.4	9.4
77.5°	103.0	43.7	21.9	18.7	15.6	12.5	14.0	12.5	7.8	4.7	4.7
80°	57.7	31.2	14.0	12.5	9.4	7.8	7.8	6.2	4.7	1.6	1.6
82.5°	21.9	18.7	9.4	6.2	4.7	4.7	3.1	3.1	1.6	0.0	0.0
85°	9.4	4.7	4.7	3.1	3.1	1.6	1.6	1.6	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	895.9	899.0	902.1	914.6	917.7	927.1	934.9	944.2	945.8	958.3	958.3
5°	772.6	771.0	797.5	836.6	861.5	895.9	922.4	950.5	966.1	986.4	995.8
7.5°	511.9	550.9	610.2	678.9	767.9	850.6	913.0	967.7	1005.1	1028.5	1037.9
10°	254.4	276.3	338.7	451.1	602.4	771.0	903.7	1005.1	1066.0	1092.5	1109.7
12.5°	179.5	184.2	195.1	256.0	401.1	639.9	874.0	1045.7	1130.0	1179.9	1201.8
15°	160.8	163.9	168.6	185.7	248.2	477.6	820.9	1091.0	1229.9	1287.6	1315.7
17.5°	148.3	149.8	154.5	168.6	195.1	324.6	735.1	1139.3	1350.0	1420.3	1473.3
20°	137.3	137.3	142.0	159.2	181.0	249.7	611.8	1194.0	1503.0	1604.4	1657.5
22.5°	124.9	128.0	131.1	149.8	176.4	227.9	496.3	1236.1	1673.1	1796.4	1858.8
25°	115.5	118.6	121.7	140.5	171.7	227.9	429.2	1262.6	1863.5	2010.2	2096.1
27.5°	107.7	110.8	115.5	134.2	167.0	237.2	402.7	1270.4	2071.1	2261.5	2377.0
30°	101.4	104.6	109.3	129.5	170.1	248.2	412.0	1259.5	2281.8	2520.6	2657.9
32.5°	95.2	98.3	103.0	124.9	170.1	262.2	443.2	1237.7	2486.3	2779.7	2948.2
35°	90.5	92.1	93.6	112.4	154.5	260.6	482.3	1215.8	2692.3	3035.6	3232.3
37.5°	81.2	82.7	85.8	96.8	123.3	237.2	490.1	1189.3	2854.6	3251.0	3468.0
40°	71.8	74.9	78.0	89.0	103.0	192.0	455.7	1133.1	2940.4	3416.5	3680.2
42.5°	65.6	67.1	70.2	81.2	95.2	153.0	382.4	1034.8	3016.9	3528.8	3834.7
45°	60.9	62.4	65.6	73.4	89.0	132.7	301.2	914.6	3023.2	3564.7	3909.6
47.5°	56.2	57.7	59.3	67.1	85.8	118.6	231.0	805.3	3021.6	3611.5	3973.6
50°	53.1	54.6	57.7	64.0	81.2	106.1	190.4	716.4	3087.1	3713.0	4103.2
52.5°	51.5	51.5	56.2	62.4	76.5	96.8	159.2	636.8	3121.5	3812.9	4196.8
55°	48.4	49.9	53.1	59.3	71.8	92.1	135.8	536.9	3137.1	3862.8	4214.0
57.5°	45.3	46.8	51.5	56.2	68.7	87.4	117.1	401.1	2913.9	3602.2	3926.8
60°	*40.6*	*43.7*	*49.9*	*54.6*	*64.0*	*79.6*	*103.0*	*271.6*	*2458.2*	*3130.8*	*3402.4*
62.5°	32.8	39.0	45.3	48.4	57.7	67.1	87.4	181.0	1963.4	2590.8	2899.9
65°	25.0	32.8	37.5	42.1	48.4	56.2	73.4	123.3	1309.5	1743.3	2091.4
67.5°	21.9	28.1	31.2	34.3	40.6	48.4	59.3	85.8	794.4	1047.3	1390.6
70°	17.2	23.4	26.5	25.0	31.2	37.5	42.1	57.7	405.8	568.1	791.3
72.5°	12.5	18.7	20.3	20.3	18.7	26.5	31.2	40.6	176.4	276.3	359.0
75°	9.4	12.5	14.0	12.5	10.9	17.2	21.9	26.5	115.5	165.4	209.1
77.5°	4.7	4.7	7.8	7.8	4.7	9.4	10.9	15.6	65.6	96.8	120.2
80°	1.6	0.0	0.0	1.6	0.0	3.1	4.7	7.8	34.3	51.5	74.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	17.2	15.6	39.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.4
87.5°	0.0	0.0	0.0	0.0	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: P1501737
CATALOG NUMBER: GSS-SB2A-722-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	955.2	*955.2*	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	966.1	*966.1*	972.3	981.7	986.4	989.5	991.1	994.2	1006.7	1003.6
5°	1006.7	*1009.8*	1014.5	1023.8	1034.8	1031.6	1031.6	1031.6	1039.5	1033.2
7.5°	1059.7	*1069.1*	1070.7	1081.6	1073.8	1058.2	1048.8	1034.8	1033.2	1033.2
10°	1145.6	*1142.5*	1142.5	1128.4	1100.3	1055.1	1014.5	986.4	970.8	972.3
12.5°	1237.7	*1225.2*	1226.7	1175.2	1095.6	995.8	913.0	852.2	847.5	842.8
15°	1351.6	*1318.8*	1312.6	1194.0	1025.4	872.5	791.3	742.9	727.3	722.6
17.5°	1513.9	*1431.2*	1401.5	1161.2	933.3	796.0	735.1	713.3	711.7	710.1
20°	1685.6	*1521.7*	1465.5	1112.8	902.1	797.5	752.3	746.0	742.9	744.5
22.5°	1885.4	*1579.5*	1507.7	1120.6	930.2	849.0	813.1	808.5	805.3	808.5
25°	2091.4	*1646.6*	1557.6	1183.0	1014.5	944.2	902.1	892.7	902.1	916.2
27.5°	2299.0	*1737.1*	1655.9	1306.3	1150.3	1073.8	1033.2	1067.5	1081.6	1083.2
30°	2483.1	*1863.5*	1788.6	1479.6	1304.8	1228.3	1236.1	1279.8	1297.0	1314.1
32.5°	2651.7	*2032.1*	1974.3	1676.2	1504.6	1459.3	1454.6	1487.4	1506.1	1495.2
35°	2821.8	*2252.1*	2196.0	1890.1	1749.6	1712.1	1673.1	1737.1	1730.9	1713.7
37.5°	2982.6	*2473.8*	2422.3	2119.5	1974.3	1908.8	1902.5	1960.3	2011.8	2008.7
40°	3098.1	*2653.3*	2590.8	2347.4	2210.0	2153.8	2186.6	2286.5	2274.0	2256.8
42.5°	3204.2	*2806.2*	2750.0	2547.1	2403.5	2428.5	2458.2	2525.3	2517.5	2500.3
45°	3254.1	*2937.3*	2888.9	2698.5	2628.3	2707.9	2706.3	2731.3	2689.2	2682.9
47.5°	3324.4	*3031.0*	2981.0	2834.3	2896.7	2929.5	2837.4	2810.9	2771.9	2740.7
50°	3453.9	*3176.1*	3126.2	3040.3	3093.4	2991.9	2879.6	2821.8	2742.2	2687.6
52.5°	3605.3	*3396.2*	3352.5	3318.1	3169.9	2960.7	2817.1	2712.6	2615.8	2569.0
55°	3795.7	*3720.8*	3689.6	3500.7	3101.2	2832.7	2664.2	2469.1	2336.4	2292.7
57.5°	3858.1	*4196.8*	4185.9	3530.4	2909.2	2600.2	2295.8	2032.1	1894.7	1866.6
60°	*3674.0*	*4569.8*	*4530.8*	*3480.4*	*2561.2*	*2110.1*	*1754.3*	*1484.3*	*1261.1*	*1228.3*
62.5°	3438.3	*4284.2*	4270.2	3229.2	1950.9	1512.4	1311.0	1058.2	963.0	938.0
65°	2945.1	*3505.4*	3511.7	2590.8	1234.5	1086.3	1076.9	841.2	724.2	705.5
67.5°	2267.8	*2689.2*	2645.5	1629.4	719.5	869.3	860.0	614.9	444.8	432.3
70°	1325.1	*2002.4*	1932.2	847.5	476.0	725.7	661.8	432.3	302.8	288.7
72.5°	585.3	*1101.9*	1183.0	373.0	335.6	577.5	477.6	265.3	170.1	167.0
75°	324.6	*546.3*	571.2	162.3	235.7	410.5	288.7	148.3	96.8	95.2
77.5°	195.1	*241.9*	235.7	104.6	176.4	262.2	174.8	84.3	60.9	57.7
80°	109.3	*110.8*	93.6	76.5	104.6	146.7	98.3	53.1	28.1	28.1
82.5°	67.1	*60.9*	48.4	23.4	28.1	89.0	35.9	29.7	9.4	9.4
85°	28.1	*18.7*	12.5	4.7	10.9	23.4	12.5	14.0	4.7	4.7
87.5°	0.0	*0.0*	0.0	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

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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

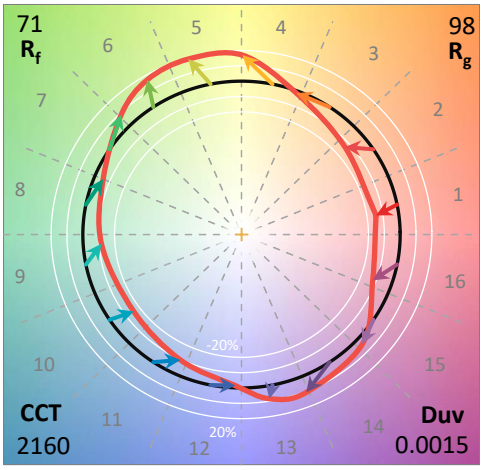
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-2
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-722-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160
CIE u':	0.2927
CIE v':	0.5388
Duv:	0.0015
CIE x:	0.5130
CIE y:	0.4197
CIE z:	0.0674
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	587
Purity:	79.96089
Rf:	70.6
Rg:	97.6

CRI (Ra):	71.9
R1:	68.7
R2:	82.6
R3:	95.5
R4:	66.4
R5:	65.4
R6:	75.9
R7:	77.2
R8:	43.5
R9:	-17.8
R10:	60.5
R11:	60.2
R12:	48.2
R13:	70.7
R14:	96.8
R15:	61.8



Test Conditions

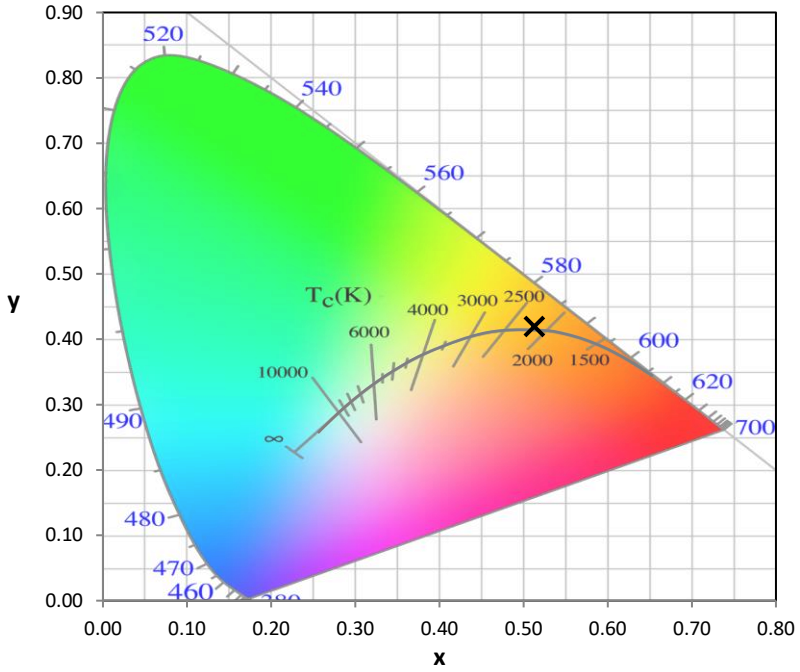
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-2

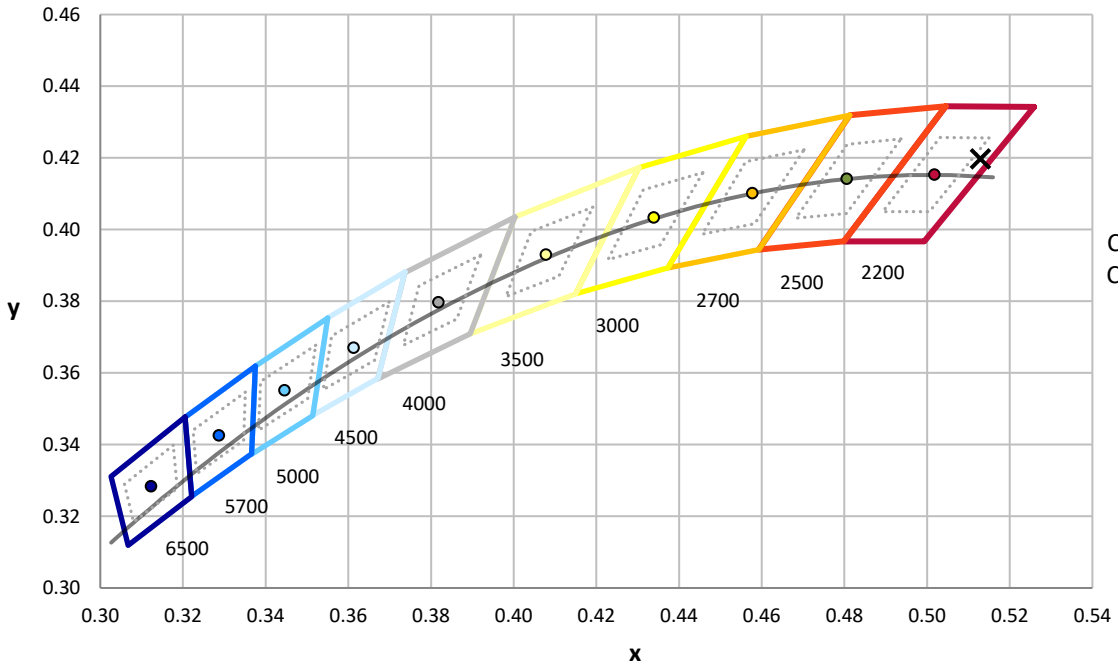
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



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

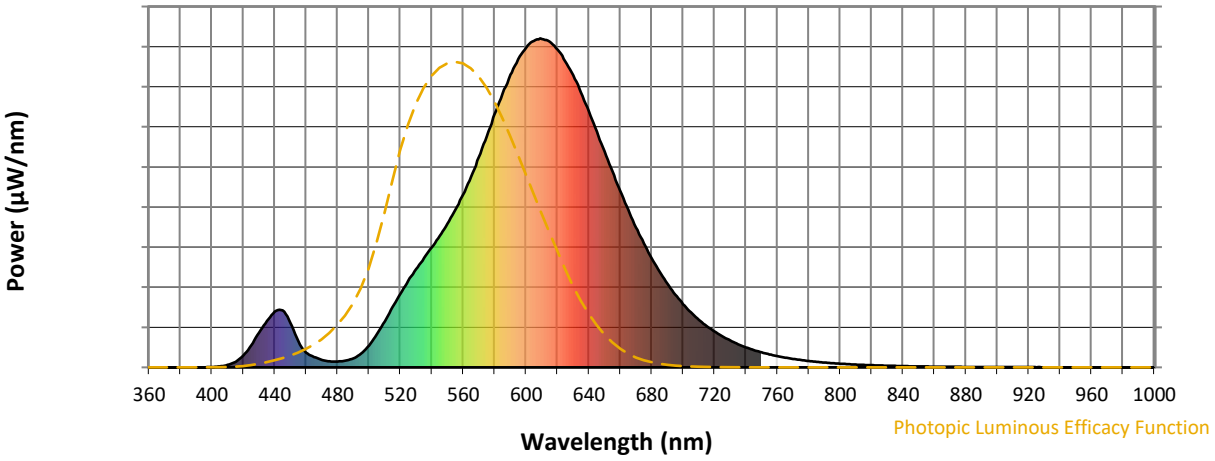


CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

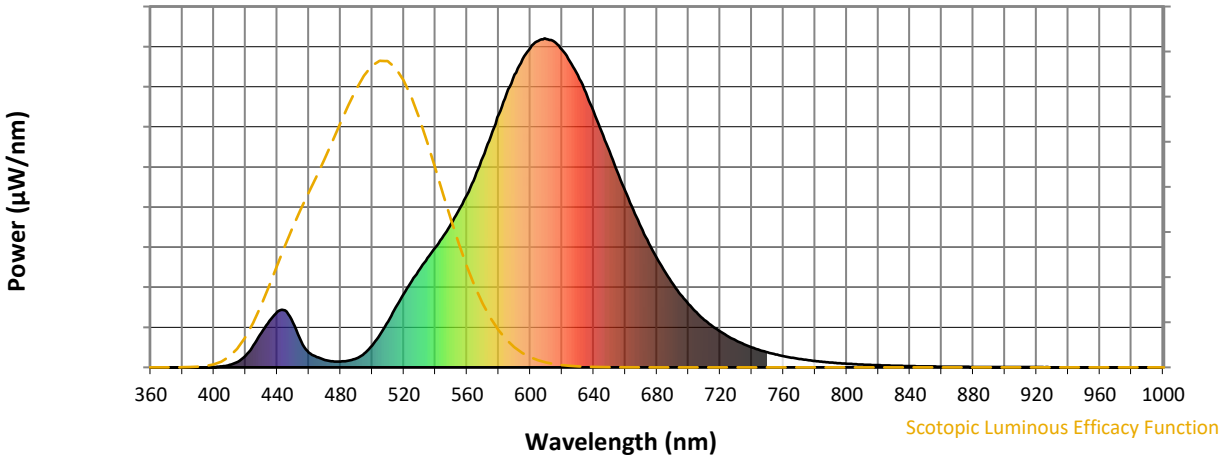


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength

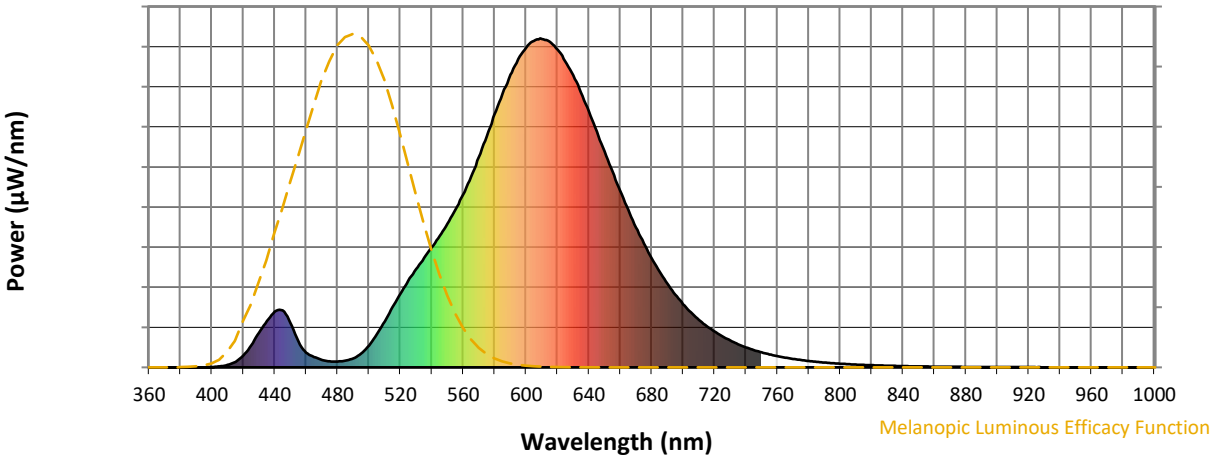


Scotopic Lumens: NR **S/P: 0.8**

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.21**

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

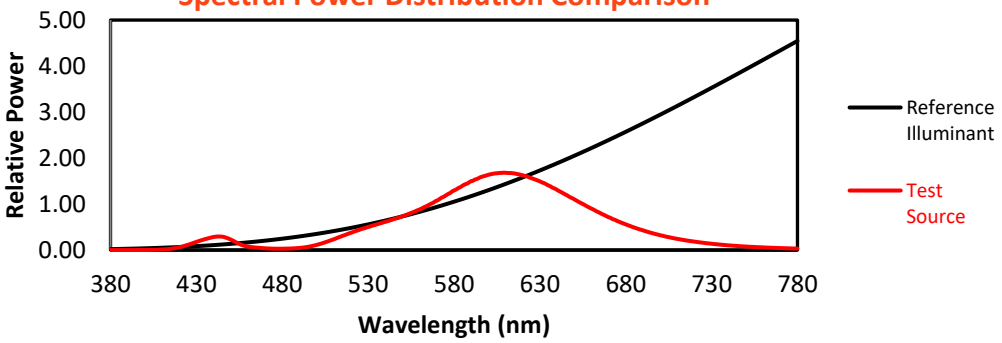
REPORT NUMBER: SP1-2407-184-2

TM-30-18

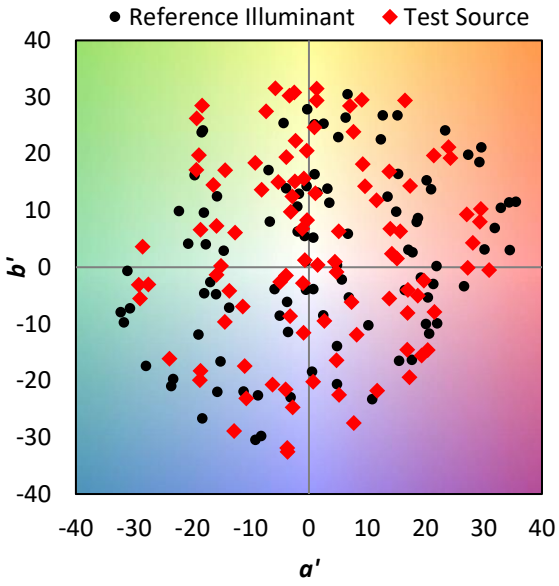
Summary

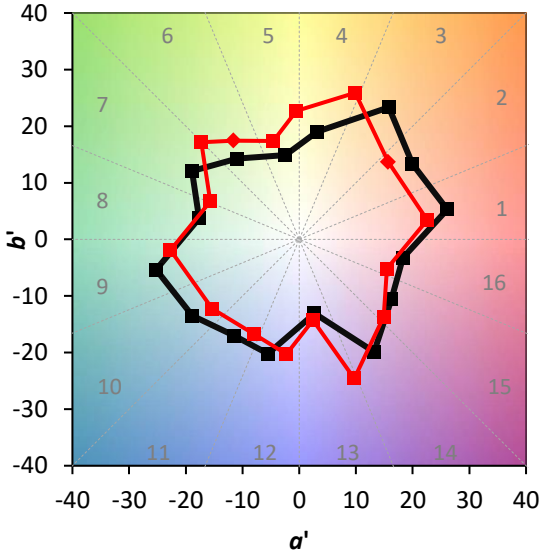
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R_g = 97.6
CIE R_a = 71.9
R_9 = -17.8

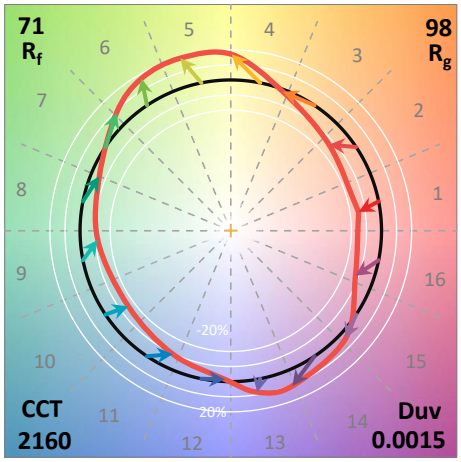
Spectral Power Distribution Comparison

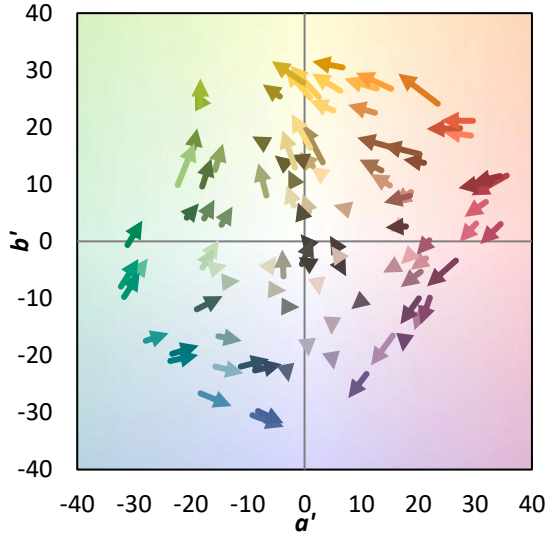


Color Vector Graphics







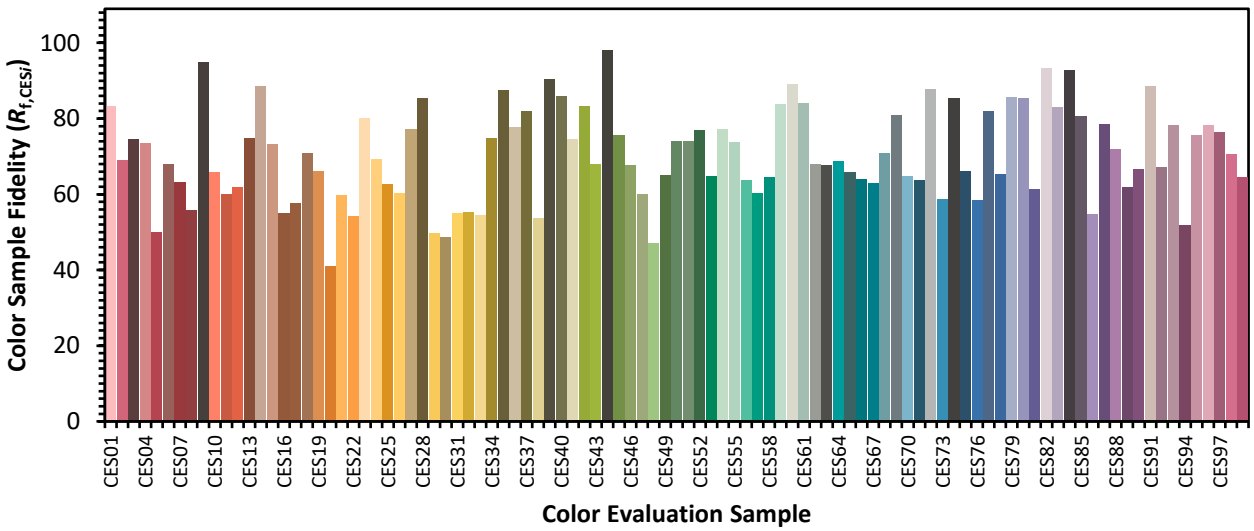


REPORT NUMBER: SP1-2407-184-2

TM-30-18

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

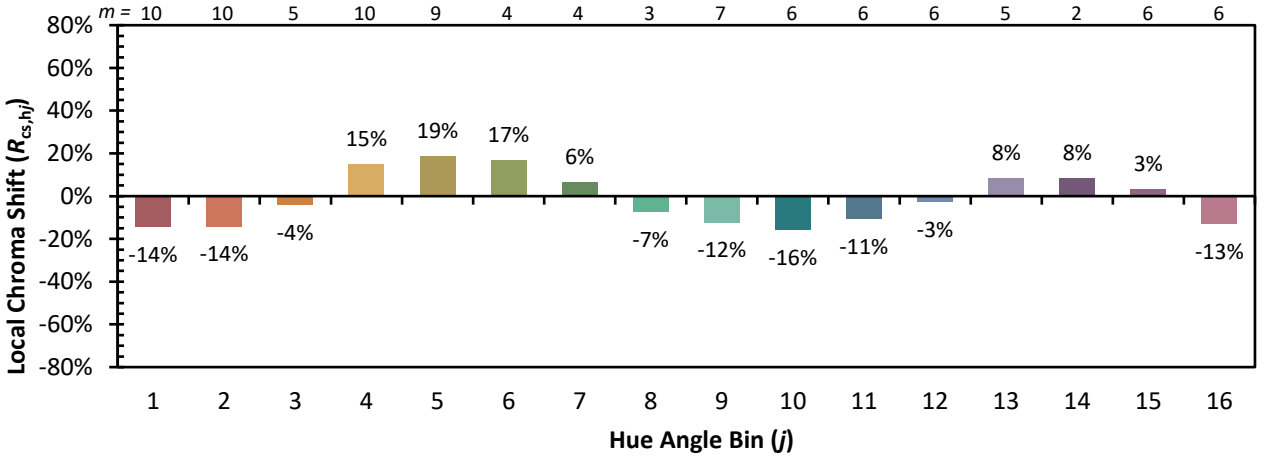
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CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	

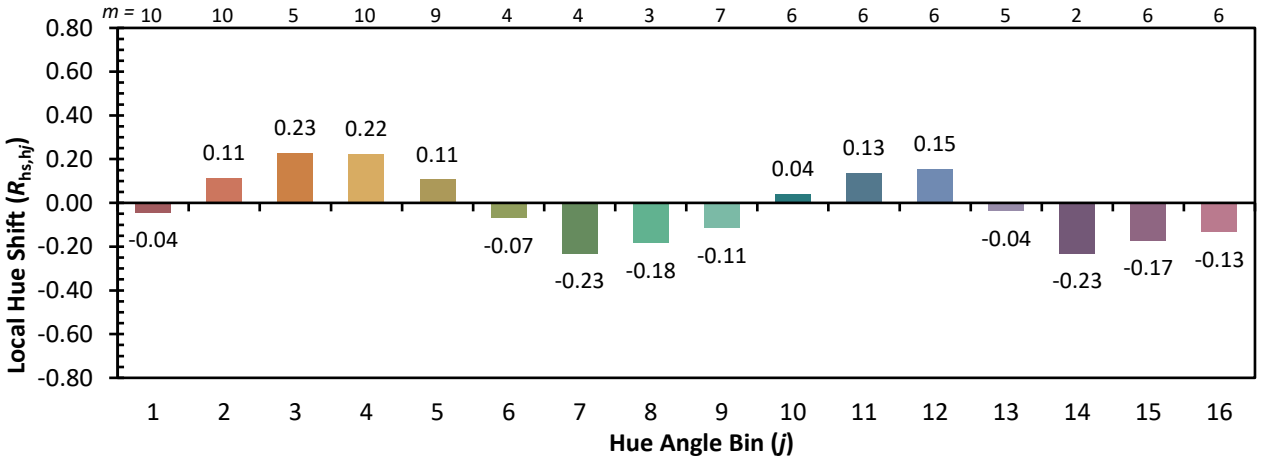


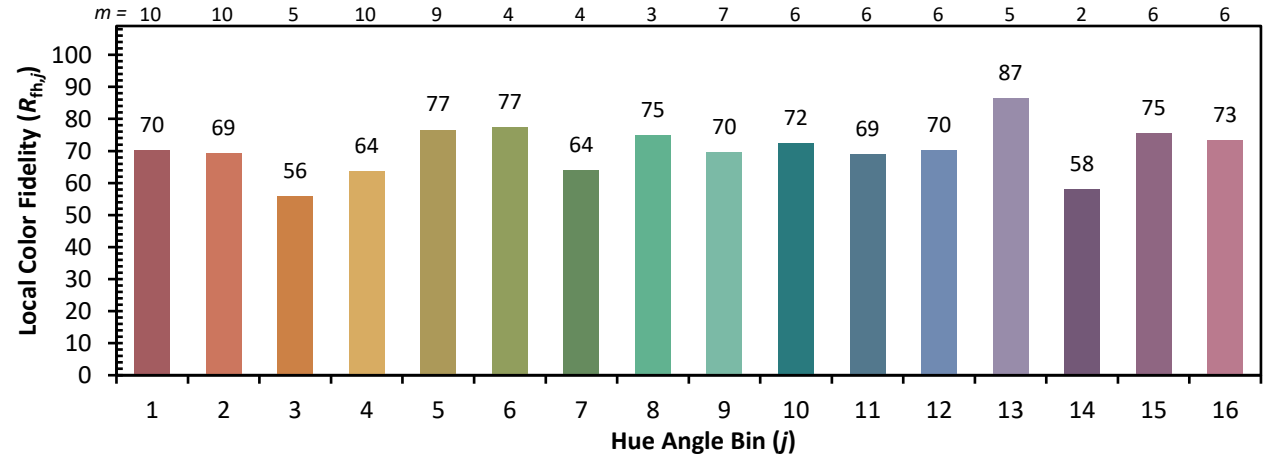
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Color Rendition by Hue-Angle Bin



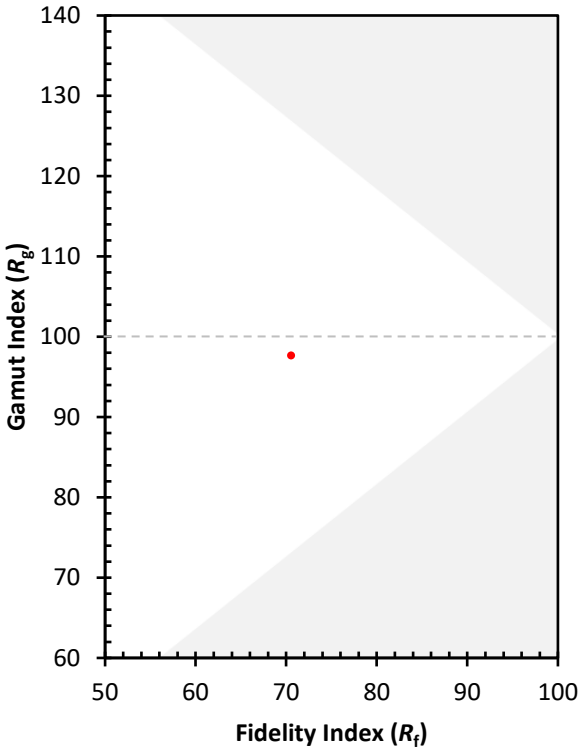


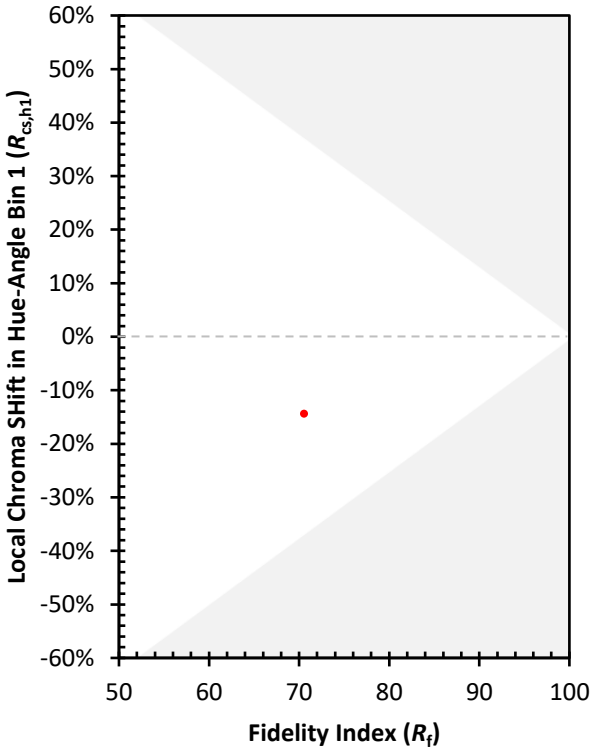


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Measure Comparisons





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