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: LUMARK

Report Number: P1449804

Luminaire Tested: **AXCS5ARL-W**

Issue Date: 5/12/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449804
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-196-6)
Test Lab:	INNOVATION CENTER
Issue Date:	5/12/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	AXCS5ARL-W
Description:	5A AXCENT LED REFRACTIVE LENS WALLPACK WITH 3000K 80CRI LEDS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5688 lumens
Efficiency:	N/A
Efficacy:	127.5 lumens/watt
Luminous Opening:	Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	44.6
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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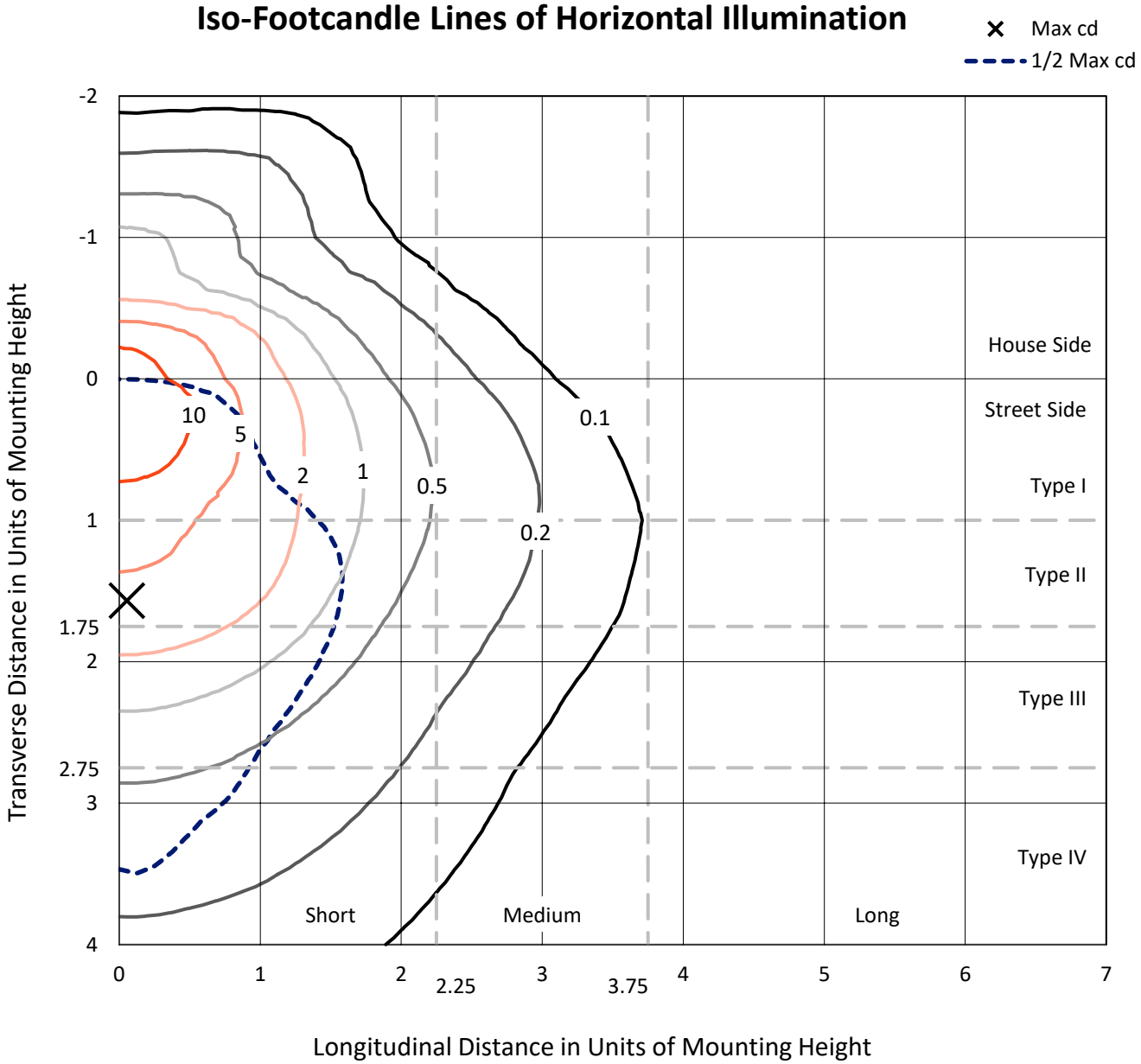
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
Type IV - Short - N/A

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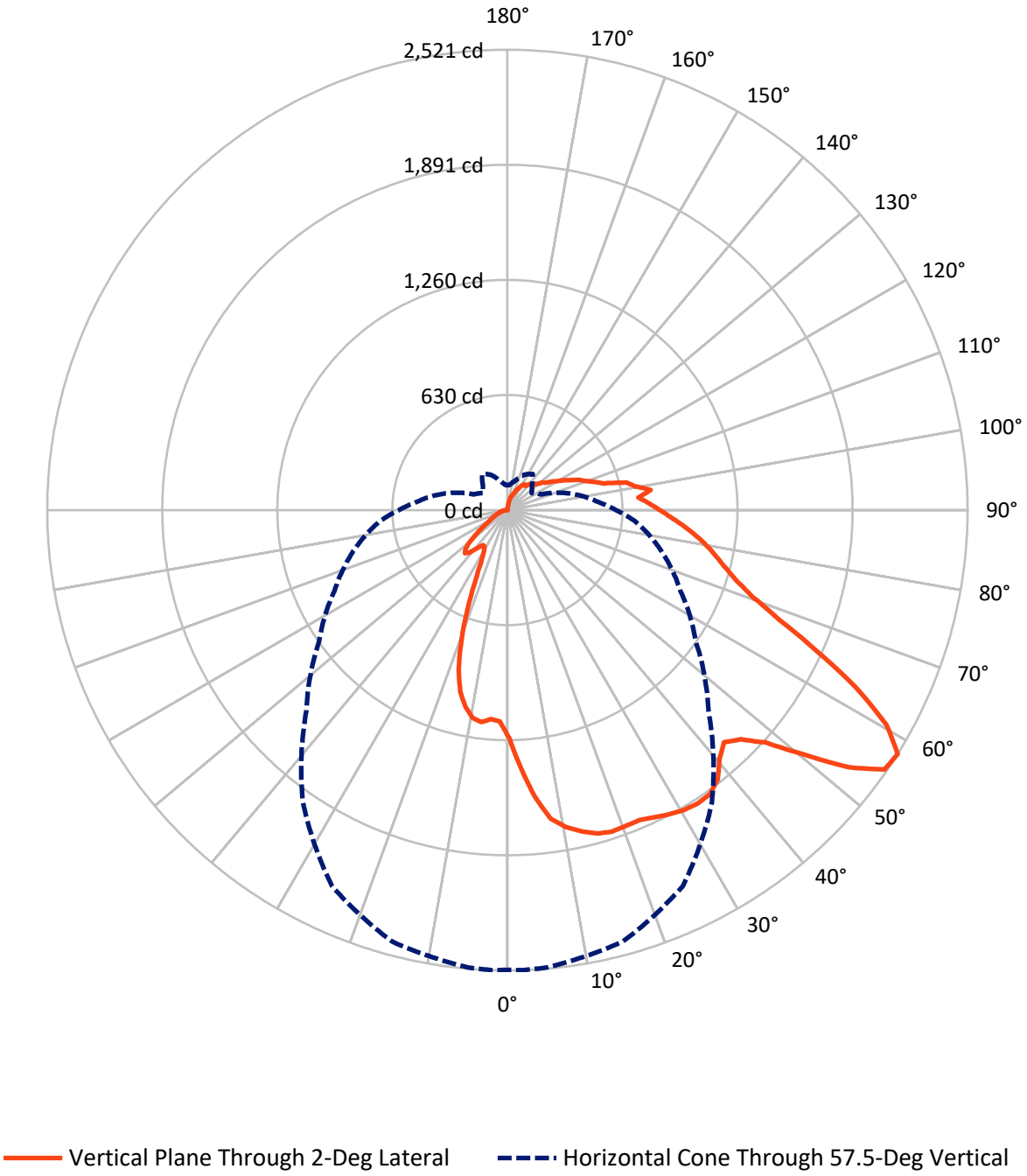
Luminous Intensity Polar Plot



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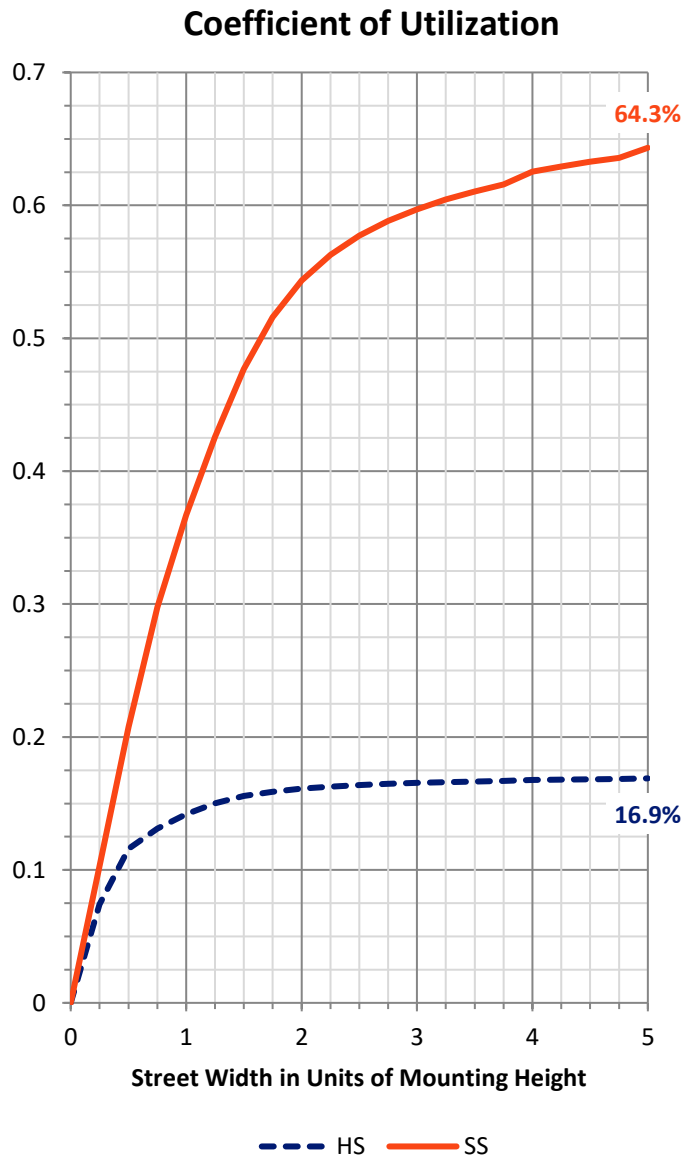
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.4	72.9	1053.4
	% Fixture	17.2	1.3	18.5
Street Side	Lumens	3875.7	758.9	4634.6
	% Fixture	68.1	13.3	81.5
Total	Lumens	4856.1	831.9	5688.0
	% Fixture	85.4	14.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.2
10°-20°	388.1	6.8
20°-30°	564.4	9.9
30°-40°	667.1	11.7
40°-50°	726.3	12.8
50°-60°	830.6	14.6
60°-70°	720.9	12.7
70°-80°	483.9	8.5
80°-90°	347.5	6.1
90°-100°	268.1	4.7
100°-110°	200.2	3.5
110°-120°	137.6	2.4
120°-130°	93.1	1.6
130°-140°	63.5	1.1
140°-150°	41.0	0.7
150°-160°	20.8	0.4
160°-170°	7.0	0.1
170°-180°	0.6	0.0
0°-90°	4856.1	85.4
0°-180°	5688.0	100.0



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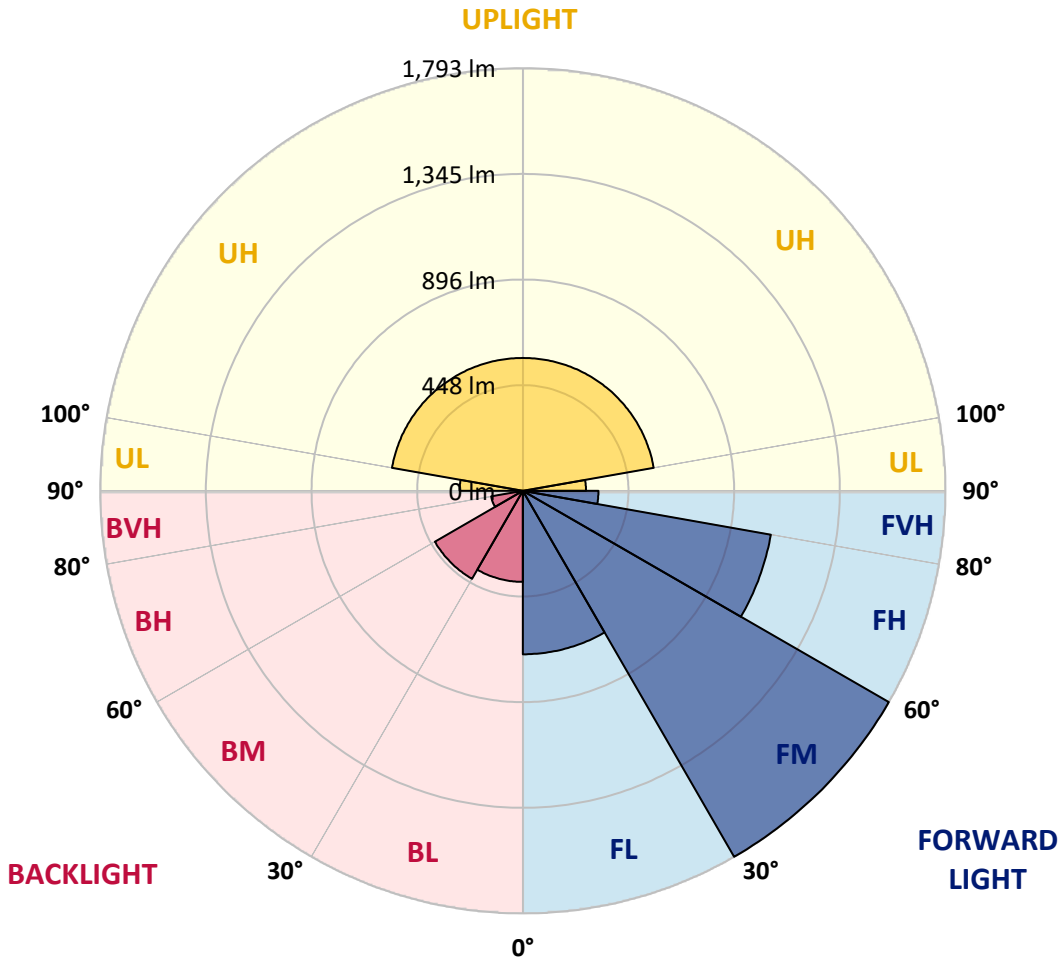
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	693.6	12.2			
FM	(30°-60°)	1792.8	31.5			
FH	(60°-80°)	1068.5	18.8			G1/1800
FVH	(80°-90°)	320.7	5.6			G3/500
BL	(0°-30°)	386.3	6.8	B1/500		
BM	(30°-60°)	431.1	7.6	B1/1000		
BH	(60°-80°)	136.3	2.4	B1/500		G1/500
BVH	(80°-90°)	26.7	0.5			G1/100
UL	(90°-100°)	268.1	4.7		U3/500	
UH	(100°-180°)	563.7	9.9		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1251.1	*1251.1*	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1419.4	*1414.7*	1412.4	1410.1	1398.4	1384.3	1363.3	1339.9	1314.2	1283.8	1253.4
5°	1580.8	*1578.4*	1576.1	1566.7	1548.0	1522.3	1477.9	1440.5	1386.7	1325.9	1269.8
7.5°	1709.4	*1707.0*	1704.7	1695.4	1674.3	1634.6	1583.1	1527.0	1452.2	1368.0	1281.5
10°	1765.5	*1765.5*	1765.5	1758.5	1742.1	1714.1	1665.0	1594.8	1505.9	1400.7	1283.8
12.5°	1805.3	*1805.3*	1802.9	1795.9	1779.5	1751.5	1716.4	1655.6	1555.0	1428.8	1288.5
15°	1835.7	*1838.0*	1838.0	1828.6	1812.3	1781.9	1746.8	1693.0	1599.5	1456.8	1295.5
17.5°	1849.7	*1852.0*	1849.7	1842.7	1826.3	1795.9	1758.5	1709.4	1622.9	1475.5	1293.1
20°	1847.4	*1847.4*	1845.0	1838.0	1824.0	1795.9	1758.5	1704.7	1625.2	1480.2	1283.8
22.5°	1845.0	*1845.0*	1845.0	1833.3	1812.3	1784.2	1749.1	1695.4	1618.2	1480.2	1269.8
25°	1863.7	*1863.7*	1861.4	1845.0	1817.0	1777.2	1735.1	1681.3	1604.2	1475.5	1255.7
27.5°	1884.8	*1887.1*	1882.4	1866.1	1828.6	1774.9	1721.1	1662.6	1585.4	1461.5	1241.7
30°	1905.8	*1905.8*	1903.5	1882.4	1838.0	1777.2	1704.7	1634.6	1555.0	1440.5	1218.3
32.5°	1915.2	*1915.2*	1912.8	1894.1	1847.4	1774.9	1690.7	1601.8	1520.0	1407.7	1185.6
35°	1908.2	*1910.5*	1910.5	1894.1	1856.7	1781.9	1681.3	1573.8	1480.2	1368.0	1148.2
37.5°	1870.7	*1870.7*	1870.7	1866.1	1845.0	1786.6	1674.3	1545.7	1435.8	1318.9	1103.7
40°	1784.2	*1788.9*	1788.9	1788.9	1791.2	1767.8	1674.3	1520.0	1384.3	1265.1	1054.6
42.5°	1739.8	*1739.8*	1739.8	1721.1	1707.0	1702.4	1648.6	1498.9	1330.6	1204.3	1000.8
45°	1791.2	*1791.2*	1788.9	1753.8	1676.6	1622.9	1585.4	1461.5	1279.1	1141.1	947.1
47.5°	1908.2	*1901.1*	1898.8	1838.0	1739.8	1604.2	1510.6	1400.7	1225.3	1085.0	900.3
50°	2109.3	*2102.2*	2095.2	2008.7	1845.0	1662.6	1475.5	1332.9	1164.5	1028.9	844.2
52.5°	2347.8	*2340.8*	2324.4	2228.5	2015.7	1751.5	1489.6	1281.5	1110.7	968.1	790.4
55°	2506.8	*2506.8*	2495.1	2406.2	2186.4	1866.1	1527.0	1262.7	1073.3	914.3	746.0
57.5°	*2518.5*	*2520.8*	*2513.8*	*2446.0*	*2272.9*	*1952.6*	*1557.4*	*1260.4*	*1045.3*	*874.6*	*701.5*
60°	2380.5	*2385.2*	2387.5	2322.1	2198.1	1938.6	1548.0	1241.7	1024.2	839.5	657.1
62.5°	2137.3	*2144.3*	2146.7	2081.2	1978.3	1788.9	1463.9	1197.3	1000.8	811.4	619.7
65°	1854.4	*1861.4*	1861.4	1791.2	1690.7	1545.7	1307.2	1113.1	961.1	788.0	579.9
67.5°	1601.8	*1606.5*	1606.5	1531.7	1424.1	1286.1	1117.8	991.5	905.0	764.7	547.2
70°	1419.4	*1424.1*	1419.4	1351.6	1223.0	1078.0	935.4	865.2	832.5	724.9	507.4
72.5°	1302.5	*1307.2*	1297.8	1225.3	1089.7	935.4	792.7	748.3	746.0	678.1	470.0
75°	1220.7	*1225.3*	1216.0	1138.8	1000.8	841.8	694.5	654.8	675.8	633.7	432.6
77.5°	1152.8	*1157.5*	1148.2	1071.0	930.7	776.4	629.0	589.3	622.0	577.6	383.5
80°	1087.4	*1092.0*	1082.7	1005.5	872.2	729.6	577.6	530.8	549.5	500.4	322.7
82.5°	1019.6	*1021.9*	1012.5	942.4	823.1	689.8	542.5	493.4	509.8	449.0	257.2
85°	944.7	*949.4*	942.4	876.9	771.7	654.8	509.8	467.7	474.7	390.5	194.1
87.5°	876.9	*881.6*	874.6	816.1	724.9	617.3	484.1	439.6	439.6	346.1	147.3
90°	820.8	*823.1*	816.1	767.0	682.8	586.9	460.7	413.9	404.5	306.3	116.9
92.5°	771.7	*769.3*	762.3	722.6	645.4	558.9	442.0	395.2	369.5	268.9	102.9
95°	717.9	*720.2*	715.6	678.1	612.7	528.5	425.6	374.1	332.1	226.8	91.2
97.5°	792.7	*792.7*	790.4	748.3	666.4	558.9	437.3	362.5	299.3	196.4	86.5
100°	720.2	*710.9*	710.9	678.1	617.3	530.8	418.6	336.7	268.9	173.0	84.2
102.5°	664.1	*668.8*	666.4	631.4	570.6	486.4	374.1	294.6	231.5	154.3	86.5
105°	554.2	*544.9*	537.8	514.5	472.4	416.2	332.1	266.6	208.1	145.0	88.9
107.5°	502.8	*498.1*	495.7	477.0	442.0	388.2	313.3	254.9	198.8	138.0	91.2
110°	456.0	*453.7*	451.3	434.9	404.5	353.1	292.3	243.2	189.4	131.0	91.2

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REPORT NUMBER: P1449804
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CANDELA DISTRIBUTION (continued):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	423.3	*423.3*	418.6	404.5	371.8	322.7	271.3	231.5	175.4	126.3	91.2
115°	383.5	*381.2*	378.8	367.1	339.1	299.3	252.5	212.8	161.4	123.9	91.2
117.5°	346.1	*346.1*	346.1	332.1	306.3	271.3	238.5	198.8	152.0	119.3	88.9
120°	311.0	*311.0*	311.0	299.3	278.3	250.2	219.8	184.7	142.6	116.9	84.2
122.5°	287.6	*285.3*	285.3	273.6	254.9	229.2	203.4	173.0	138.0	112.2	79.5
125°	259.6	*257.2*	257.2	247.9	233.8	212.8	196.4	166.0	135.6	109.9	74.8
127.5°	247.9	*245.5*	245.5	236.2	222.1	203.4	187.1	156.7	131.0	102.9	70.2
130°	222.1	*222.1*	222.1	215.1	203.4	194.1	173.0	149.7	123.9	98.2	65.5
132.5°	205.8	*205.8*	203.4	201.1	196.4	187.1	163.7	145.0	119.3	91.2	60.8
135°	194.1	*194.1*	194.1	198.8	191.8	175.4	156.7	138.0	112.2	84.2	56.1
137.5°	194.1	*191.8*	191.8	189.4	180.1	166.0	154.3	131.0	105.2	79.5	51.4
140°	180.1	*180.1*	177.7	173.0	166.0	163.7	147.3	123.9	98.2	74.8	44.4
142.5°	163.7	*163.7*	163.7	163.7	168.4	156.7	138.0	116.9	91.2	67.8	42.1
145°	170.7	*170.7*	170.7	166.0	161.4	149.7	128.6	107.6	86.5	63.1	37.4
147.5°	163.7	*163.7*	163.7	159.0	149.7	135.6	116.9	98.2	79.5	58.5	32.7
150°	152.0	*149.7*	149.7	145.0	135.6	121.6	107.6	91.2	74.8	51.4	28.1
152.5°	133.3	*133.3*	133.3	128.6	121.6	112.2	95.9	84.2	65.5	46.8	25.7
155°	121.6	*121.6*	119.3	116.9	107.6	95.9	86.5	74.8	58.5	39.8	21.0
157.5°	102.9	*102.9*	102.9	98.2	93.5	86.5	79.5	65.5	49.1	35.1	16.4
160°	91.2	*91.2*	91.2	88.9	86.5	79.5	70.2	56.1	44.4	30.4	14.0
162.5°	81.8	*81.8*	81.8	79.5	74.8	67.8	58.5	46.8	35.1	23.4	11.7
165°	70.2	*70.2*	67.8	65.5	60.8	56.1	46.8	37.4	28.1	18.7	9.4
167.5°	53.8	*53.8*	53.8	51.4	49.1	44.4	37.4	30.4	21.0	11.7	7.0
170°	39.8	*39.8*	39.8	37.4	35.1	30.4	23.4	18.7	11.7	7.0	4.7
172.5°	25.7	*21.0*	18.7	16.4	16.4	14.0	11.7	9.4	4.7	4.7	4.7
175°	0.0	*0.0*	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
177.5°	0.0	*0.0*	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
180°	2.3	*2.3*	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1241.7	1230.0	1213.6	1194.9	1180.9	1169.2	1164.5	1162.2	1159.9	1159.9	1157.5
5°	1241.7	1223.0	1190.3	1166.9	1152.8	1145.8	1145.8	1145.8	1148.2	1148.2	1148.2
7.5°	1241.7	1209.0	1171.5	1148.2	1138.8	1143.5	1152.8	1159.9	1166.9	1169.2	1171.5
10°	1230.0	1187.9	1148.2	1131.8	1134.1	1148.2	1162.2	1162.2	1159.9	1155.2	1152.8
12.5°	1220.7	1171.5	1129.5	1122.4	1138.8	1148.2	1136.5	1124.8	1113.1	1103.7	1101.4
15°	1213.6	1155.2	1113.1	1120.1	1136.5	1120.1	1094.4	1068.7	1045.3	1031.2	1026.6
17.5°	1197.3	1134.1	1096.7	1110.7	1103.7	1071.0	1026.6	982.1	944.7	916.7	909.6
20°	1176.2	1108.4	1073.3	1092.0	1059.3	1007.9	933.0	862.9	802.1	760.0	748.3
22.5°	1152.8	1080.4	1050.0	1057.0	1005.5	926.0	813.8	710.9	624.4	575.3	579.9
25°	1131.8	1054.6	1026.6	1012.5	940.0	827.8	671.1	542.5	458.3	413.9	416.2
27.5°	1108.4	1026.6	1000.8	970.4	869.9	708.5	519.1	404.5	341.4	311.0	313.3
30°	1080.4	996.2	965.8	909.6	776.4	577.6	399.9	313.3	275.9	261.9	259.6
32.5°	1047.6	958.8	926.0	846.5	678.1	456.0	318.0	264.2	243.2	238.5	236.2
35°	1010.2	921.3	879.2	778.7	572.9	362.5	268.9	240.9	233.8	233.8	233.8
37.5°	965.8	876.9	827.8	703.9	470.0	297.0	240.9	231.5	238.5	247.9	250.2
40°	919.0	832.5	774.0	622.0	385.8	254.9	226.8	236.2	259.6	278.3	280.6
42.5°	874.6	790.4	717.9	540.2	320.4	229.2	222.1	250.2	287.6	311.0	315.7
45°	825.5	748.3	659.4	458.3	268.9	212.8	224.5	271.3	313.3	329.7	332.1
47.5°	778.7	699.2	596.3	388.2	233.8	203.4	233.8	292.3	318.0	313.3	315.7
50°	731.9	650.1	528.5	325.0	208.1	196.4	243.2	297.0	294.6	275.9	273.6
52.5°	682.8	605.7	465.3	275.9	187.1	191.8	252.5	280.6	252.5	222.1	219.8
55°	633.7	554.2	406.9	236.2	173.0	189.4	252.5	250.2	205.8	175.4	173.0
57.5°	*594.0*	*500.4*	*350.8*	*203.4*	*161.4*	*189.4*	*240.9*	*212.8*	*166.0*	*138.0*	*135.6*
60°	542.5	453.7	301.7	180.1	152.0	184.7	219.8	175.4	133.3	112.2	109.9
62.5°	495.7	411.6	259.6	159.0	142.6	180.1	191.8	145.0	109.9	93.5	93.5
65°	453.7	369.5	222.1	145.0	135.6	168.4	166.0	119.3	91.2	79.5	79.5
67.5°	418.6	327.4	189.4	131.0	128.6	156.7	140.3	98.2	79.5	67.8	67.8
70°	378.8	287.6	161.4	119.3	119.3	140.3	116.9	84.2	67.8	58.5	56.1
72.5°	336.7	243.2	138.0	109.9	109.9	123.9	95.9	70.2	56.1	49.1	46.8
75°	292.3	196.4	119.3	100.6	102.9	107.6	79.5	60.8	49.1	42.1	39.8
77.5°	245.5	152.0	102.9	93.5	93.5	91.2	65.5	51.4	39.8	35.1	32.7
80°	194.1	116.9	86.5	84.2	84.2	77.2	53.8	42.1	32.7	28.1	25.7
82.5°	142.6	88.9	74.8	77.2	74.8	63.1	44.4	35.1	25.7	21.0	18.7
85°	102.9	70.2	65.5	70.2	65.5	53.8	37.4	28.1	18.7	14.0	11.7
87.5°	79.5	58.5	58.5	65.5	58.5	42.1	30.4	21.0	11.7	7.0	4.7
90°	65.5	53.8	53.8	58.5	46.8	32.7	21.0	14.0	7.0	2.3	2.3
92.5°	63.1	51.4	53.8	56.1	46.8	32.7	21.0	11.7	7.0	2.3	2.3
95°	60.8	53.8	53.8	53.8	44.4	30.4	18.7	11.7	7.0	2.3	0.0
97.5°	63.1	56.1	56.1	53.8	44.4	30.4	18.7	11.7	7.0	2.3	0.0
100°	65.5	58.5	56.1	53.8	44.4	30.4	18.7	11.7	4.7	2.3	0.0
102.5°	70.2	63.1	58.5	53.8	42.1	30.4	18.7	11.7	4.7	2.3	0.0
105°	72.5	65.5	58.5	53.8	42.1	28.1	18.7	11.7	4.7	2.3	0.0
107.5°	74.8	65.5	58.5	51.4	42.1	28.1	18.7	11.7	4.7	2.3	0.0
110°	74.8	67.8	56.1	51.4	39.8	28.1	16.4	9.4	4.7	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1449804
CATALOG NUMBER: AXCS5ARL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	74.8	65.5	56.1	49.1	39.8	28.1	16.4	9.4	4.7	0.0	0.0
115°	74.8	65.5	53.8	46.8	37.4	25.7	16.4	9.4	4.7	0.0	0.0
117.5°	72.5	63.1	51.4	44.4	35.1	25.7	16.4	9.4	4.7	0.0	0.0
120°	67.8	60.8	49.1	42.1	35.1	23.4	14.0	9.4	4.7	0.0	0.0
122.5°	65.5	56.1	46.8	39.8	32.7	23.4	14.0	9.4	4.7	0.0	0.0
125°	60.8	53.8	44.4	37.4	30.4	21.0	14.0	9.4	4.7	0.0	0.0
127.5°	56.1	49.1	42.1	35.1	30.4	21.0	11.7	7.0	4.7	0.0	0.0
130°	51.4	46.8	39.8	32.7	28.1	18.7	11.7	7.0	4.7	0.0	0.0
132.5°	49.1	44.4	37.4	32.7	25.7	18.7	11.7	7.0	4.7	0.0	0.0
135°	44.4	39.8	32.7	28.1	23.4	16.4	11.7	7.0	2.3	0.0	0.0
137.5°	39.8	37.4	30.4	28.1	21.0	16.4	9.4	4.7	2.3	0.0	0.0
140°	37.4	32.7	28.1	25.7	21.0	14.0	9.4	4.7	2.3	0.0	0.0
142.5°	32.7	30.4	25.7	23.4	18.7	14.0	9.4	4.7	2.3	0.0	0.0
145°	30.4	28.1	23.4	21.0	16.4	11.7	7.0	4.7	2.3	0.0	0.0
147.5°	28.1	25.7	21.0	18.7	16.4	11.7	7.0	4.7	2.3	0.0	0.0
150°	25.7	23.4	21.0	16.4	14.0	9.4	4.7	2.3	2.3	0.0	0.0
152.5°	21.0	21.0	18.7	16.4	11.7	9.4	4.7	2.3	2.3	0.0	0.0
155°	18.7	18.7	16.4	14.0	9.4	7.0	4.7	2.3	0.0	0.0	0.0
157.5°	16.4	16.4	14.0	11.7	9.4	7.0	4.7	2.3	0.0	0.0	0.0
160°	14.0	14.0	11.7	9.4	7.0	4.7	2.3	2.3	0.0	0.0	0.0
162.5°	11.7	11.7	9.4	7.0	7.0	4.7	2.3	0.0	0.0	0.0	0.0
165°	9.4	9.4	7.0	7.0	4.7	2.3	2.3	0.0	0.0	0.0	0.0
167.5°	7.0	7.0	7.0	4.7	4.7	2.3	2.3	2.3	0.0	0.0	0.0
170°	4.7	4.7	4.7	4.7	2.3	2.3	2.3	0.0	0.0	0.0	0.0
172.5°	4.7	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0
175°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0
177.5°	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

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

Lumark

Report Number: SP1-2512-637-1

Test Date: 01/12/2026

Luminaire Tested: AXCS4A-W

Data in this report applies to families of products including AXCS4A-W

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

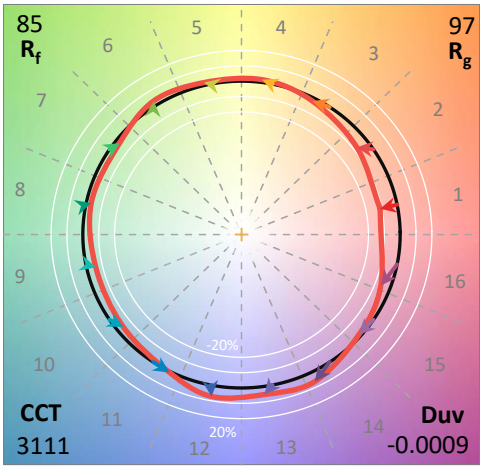
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2512-637-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	01/13/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**AXCS4A-W**
Description:	4A AXCENT SMALL WALLPACK, FULL CUTOFF, 3000K

Spectral Parameters

CCT (K):	3111
CIE u':	0.2472
CIE v':	0.5179
Duv:	-0.0009
CIE x:	0.4280
CIE y:	0.3986
CIE z:	0.1733
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	582
Purity:	48.11977
Rf:	85.3
Rg:	96.7

CRI (Ra):	83.4
R1:	82.0
R2:	91.4
R3:	96.3
R4:	81.9
R5:	82.5
R6:	89.7
R7:	83.1
R8:	60.2
R9:	8.9
R10:	80.6
R11:	81.8
R12:	73.2
R13:	84.3
R14:	98.6
R15:	74.6



Test Conditions

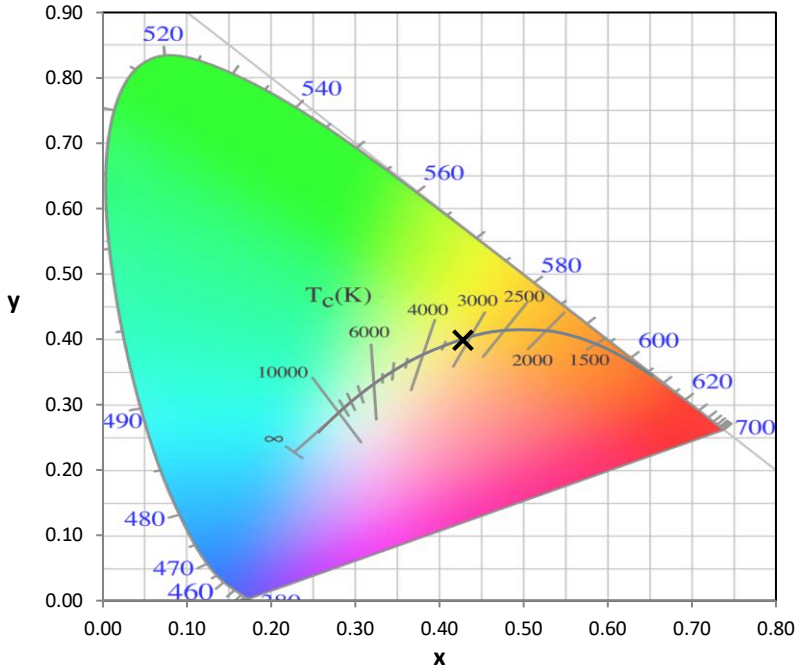
Stabilization Time:	52M
Operation Time:	1H 52M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2512-637-1

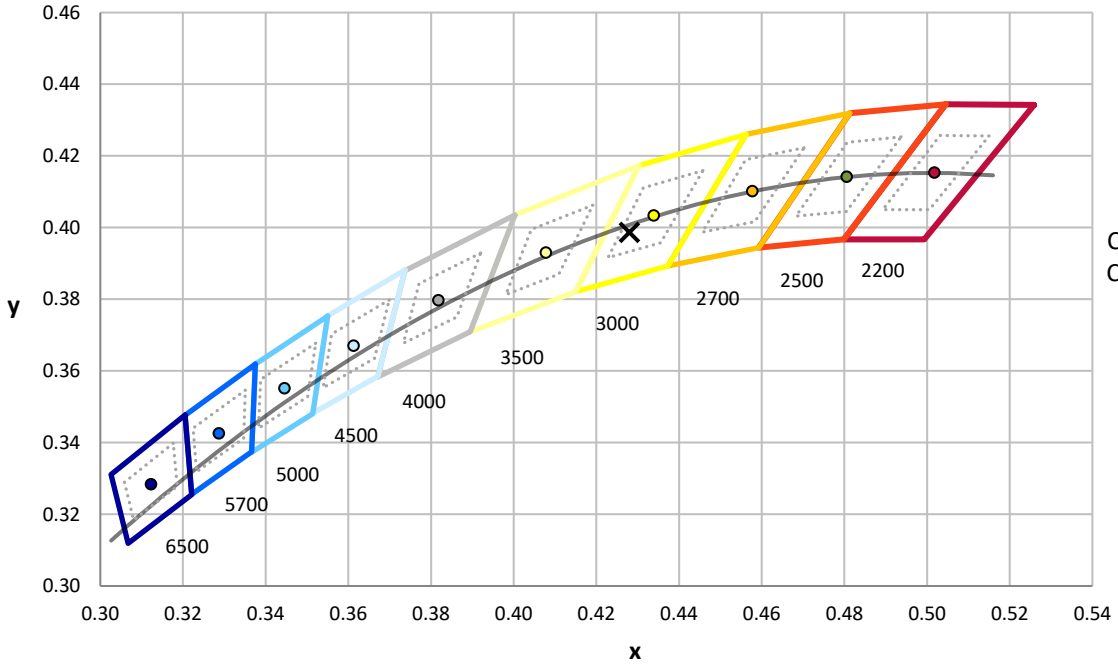
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2512-637-1

CIE 1931 Chromaticity Diagram



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

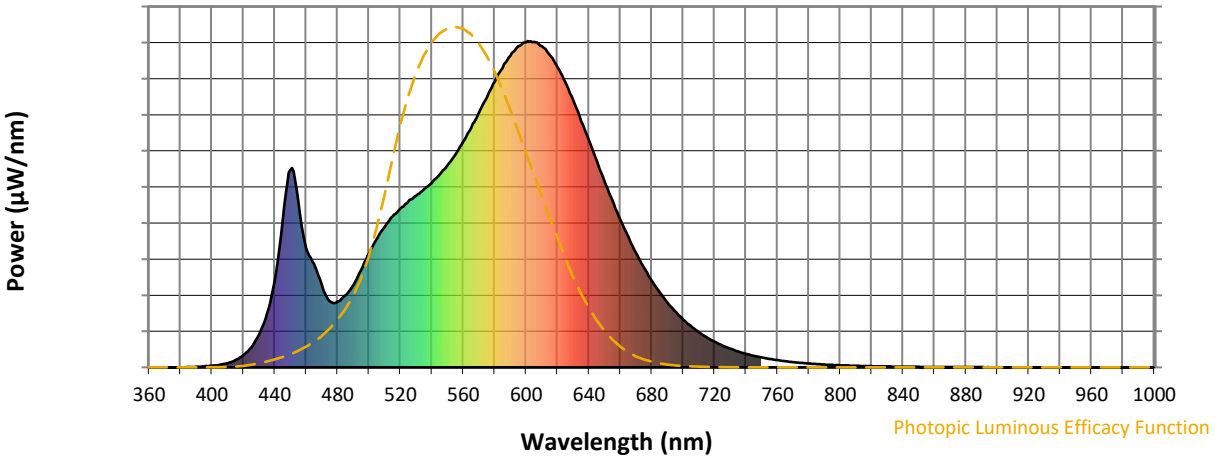


CCT = 3111K
CIE x = 0.4280
CIE y = 0.3986
Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

Photopic Flux vs. Wavelength

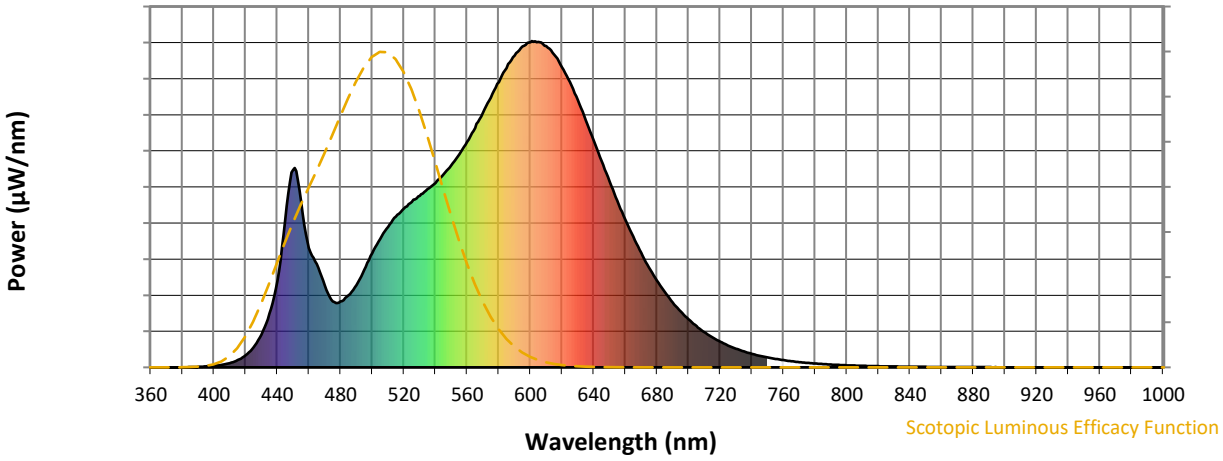


Photopic Lumens: NR

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	252	NR	620	920	NR	750	30	NR	880	1	NR
365	0	NR	495	298	NR	625	875	NR	755	26	NR	885	1	NR
370	0	NR	500	349	NR	630	819	NR	760	22	NR	890	1	NR
375	0	NR	505	394	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	431	NR	640	696	NR	770	16	NR	900	1	NR
385	1	NR	515	462	NR	645	633	NR	775	14	NR	905	0	NR
390	2	NR	520	487	NR	650	570	NR	780	12	NR	910	0	NR
395	3	NR	525	507	NR	655	511	NR	785	10	NR	915	0	NR
400	5	NR	530	525	NR	660	453	NR	790	9	NR	920	0	NR
405	8	NR	535	546	NR	665	401	NR	795	7	NR	925	0	NR
410	13	NR	540	565	NR	670	352	NR	800	6	NR	930	0	NR
415	22	NR	545	591	NR	675	306	NR	805	6	NR	935	0	NR
420	38	NR	550	619	NR	680	266	NR	810	5	NR	940	0	NR
425	61	NR	555	652	NR	685	230	NR	815	4	NR	945	0	NR
430	100	NR	560	691	NR	690	199	NR	820	4	NR	950	0	NR
435	165	NR	565	734	NR	695	171	NR	825	3	NR	955	0	NR
440	265	NR	570	780	NR	700	147	NR	830	3	NR	960	0	NR
445	450	NR	575	826	NR	705	126	NR	835	2	NR	965	0	NR
450	605	NR	580	874	NR	710	108	NR	840	2	NR	970	0	NR
455	508	NR	585	917	NR	715	92	NR	845	2	NR	975	0	NR
460	366	NR	590	956	NR	720	79	NR	850	2	NR	980	0	NR
465	317	NR	595	983	NR	725	67	NR	855	1	NR	985	0	NR
470	251	NR	600	997	NR	730	57	NR	860	1	NR	990	0	NR
475	202	NR	605	997	NR	735	49	NR	865	1	NR	995	0	NR
480	202	NR	610	984	NR	740	42	NR	870	1	NR	1000	0	NR
485	220	NR	615	958	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2512-637-1

Scotopic Flux vs. Wavelength

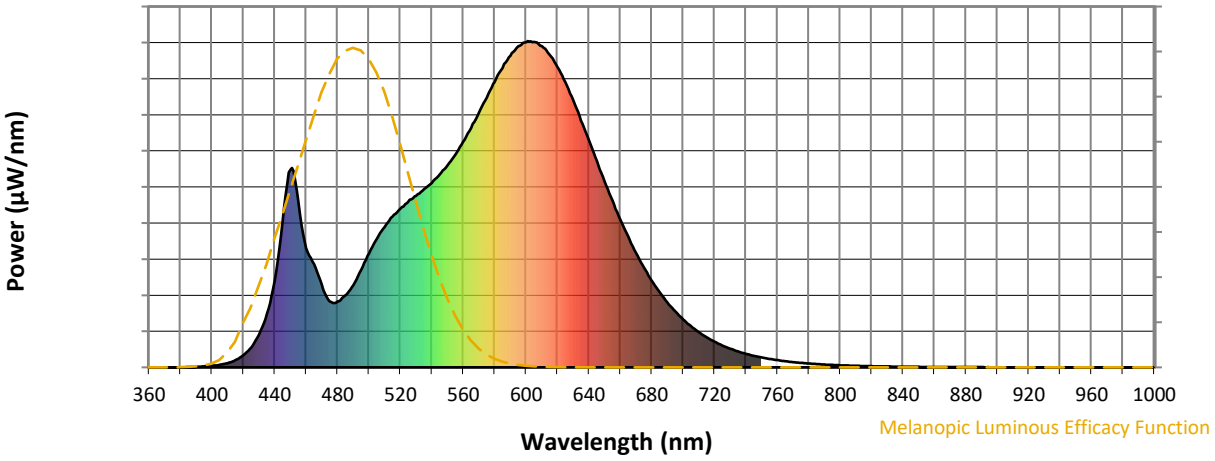


Scotopic Lumens: NR **S/P: 1.4**

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	252	NR	620	920	NR	750	30	NR	880	1	NR
365	0	NR	495	298	NR	625	875	NR	755	26	NR	885	1	NR
370	0	NR	500	349	NR	630	819	NR	760	22	NR	890	1	NR
375	0	NR	505	394	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	431	NR	640	696	NR	770	16	NR	900	1	NR
385	1	NR	515	462	NR	645	633	NR	775	14	NR	905	0	NR
390	2	NR	520	487	NR	650	570	NR	780	12	NR	910	0	NR
395	3	NR	525	507	NR	655	511	NR	785	10	NR	915	0	NR
400	5	NR	530	525	NR	660	453	NR	790	9	NR	920	0	NR
405	8	NR	535	546	NR	665	401	NR	795	7	NR	925	0	NR
410	13	NR	540	565	NR	670	352	NR	800	6	NR	930	0	NR
415	22	NR	545	591	NR	675	306	NR	805	6	NR	935	0	NR
420	38	NR	550	619	NR	680	266	NR	810	5	NR	940	0	NR
425	61	NR	555	652	NR	685	230	NR	815	4	NR	945	0	NR
430	100	NR	560	691	NR	690	199	NR	820	4	NR	950	0	NR
435	165	NR	565	734	NR	695	171	NR	825	3	NR	955	0	NR
440	265	NR	570	780	NR	700	147	NR	830	3	NR	960	0	NR
445	450	NR	575	826	NR	705	126	NR	835	2	NR	965	0	NR
450	605	NR	580	874	NR	710	108	NR	840	2	NR	970	0	NR
455	508	NR	585	917	NR	715	92	NR	845	2	NR	975	0	NR
460	366	NR	590	956	NR	720	79	NR	850	2	NR	980	0	NR
465	317	NR	595	983	NR	725	67	NR	855	1	NR	985	0	NR
470	251	NR	600	997	NR	730	57	NR	860	1	NR	990	0	NR
475	202	NR	605	997	NR	735	49	NR	865	1	NR	995	0	NR
480	202	NR	610	984	NR	740	42	NR	870	1	NR	1000	0	NR
485	220	NR	615	958	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2512-637-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.73**

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	252	NR	620	920	NR	750	30	NR	880	1	NR
365	0	NR	495	298	NR	625	875	NR	755	26	NR	885	1	NR
370	0	NR	500	349	NR	630	819	NR	760	22	NR	890	1	NR
375	0	NR	505	394	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	431	NR	640	696	NR	770	16	NR	900	1	NR
385	1	NR	515	462	NR	645	633	NR	775	14	NR	905	0	NR
390	2	NR	520	487	NR	650	570	NR	780	12	NR	910	0	NR
395	3	NR	525	507	NR	655	511	NR	785	10	NR	915	0	NR
400	5	NR	530	525	NR	660	453	NR	790	9	NR	920	0	NR
405	8	NR	535	546	NR	665	401	NR	795	7	NR	925	0	NR
410	13	NR	540	565	NR	670	352	NR	800	6	NR	930	0	NR
415	22	NR	545	591	NR	675	306	NR	805	6	NR	935	0	NR
420	38	NR	550	619	NR	680	266	NR	810	5	NR	940	0	NR
425	61	NR	555	652	NR	685	230	NR	815	4	NR	945	0	NR
430	100	NR	560	691	NR	690	199	NR	820	4	NR	950	0	NR
435	165	NR	565	734	NR	695	171	NR	825	3	NR	955	0	NR
440	265	NR	570	780	NR	700	147	NR	830	3	NR	960	0	NR
445	450	NR	575	826	NR	705	126	NR	835	2	NR	965	0	NR
450	605	NR	580	874	NR	710	108	NR	840	2	NR	970	0	NR
455	508	NR	585	917	NR	715	92	NR	845	2	NR	975	0	NR
460	366	NR	590	956	NR	720	79	NR	850	2	NR	980	0	NR
465	317	NR	595	983	NR	725	67	NR	855	1	NR	985	0	NR
470	251	NR	600	997	NR	730	57	NR	860	1	NR	990	0	NR
475	202	NR	605	997	NR	735	49	NR	865	1	NR	995	0	NR
480	202	NR	610	984	NR	740	42	NR	870	1	NR	1000	0	NR
485	220	NR	615	958	NR	745	35	NR	875	1	NR			

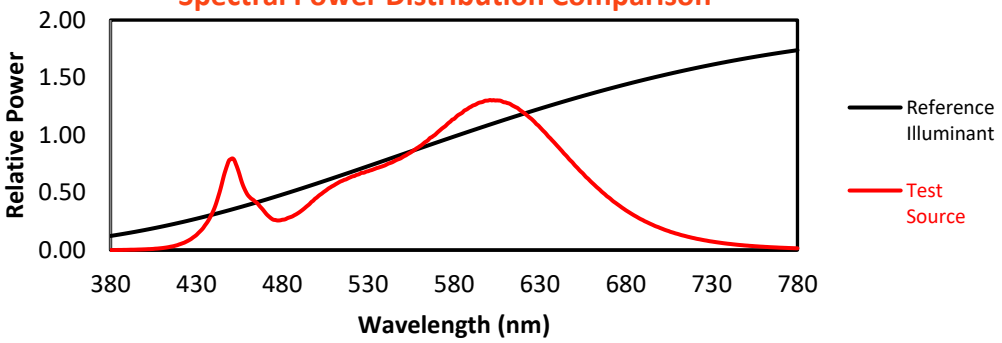
REPORT NUMBER: SP1-2512-637-1

TM-30-18

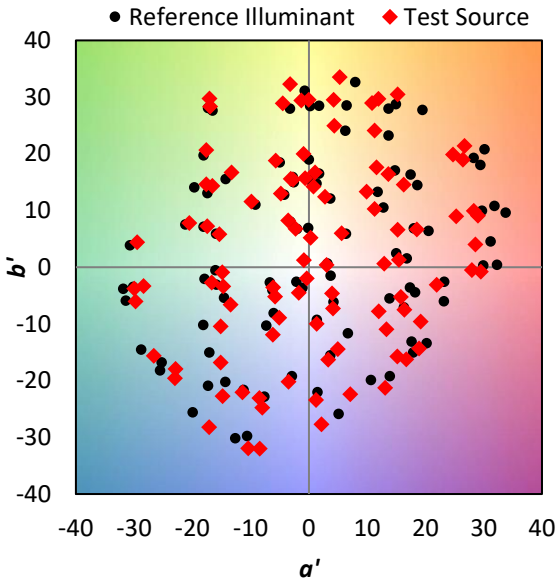
Summary

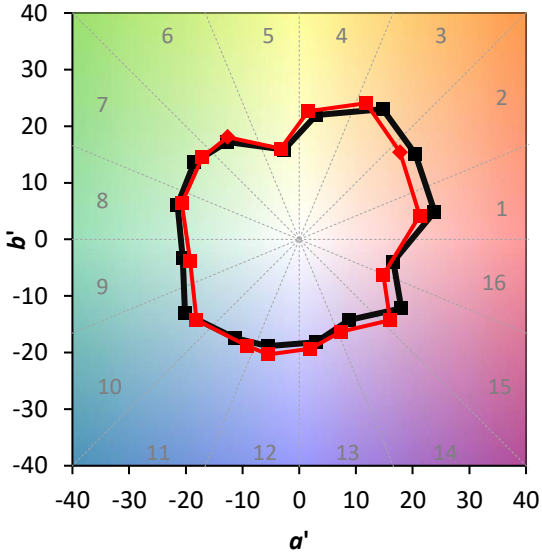
R_f = 85.3
R_g = 96.7
CIE R_a = 83.4
R_9 = 8.9

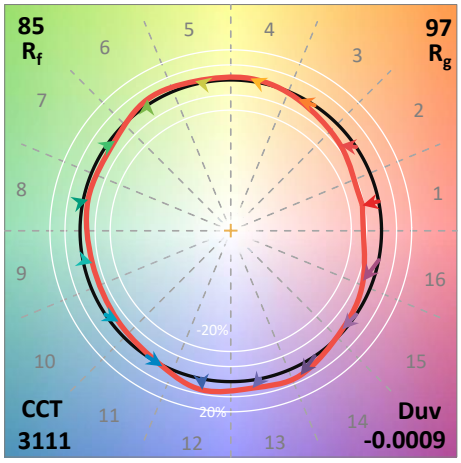
Spectral Power Distribution Comparison

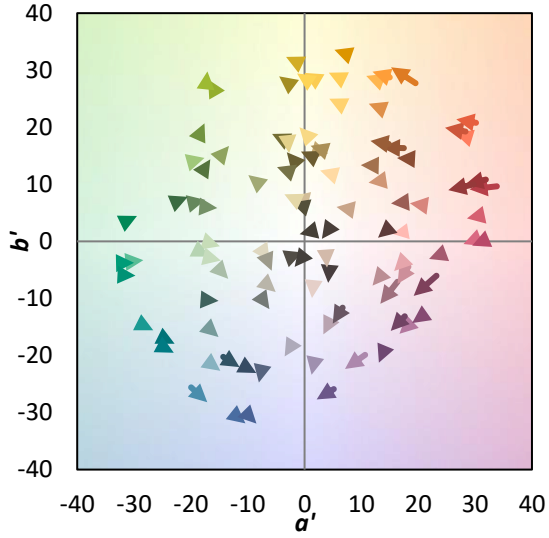


Color Vector Graphics







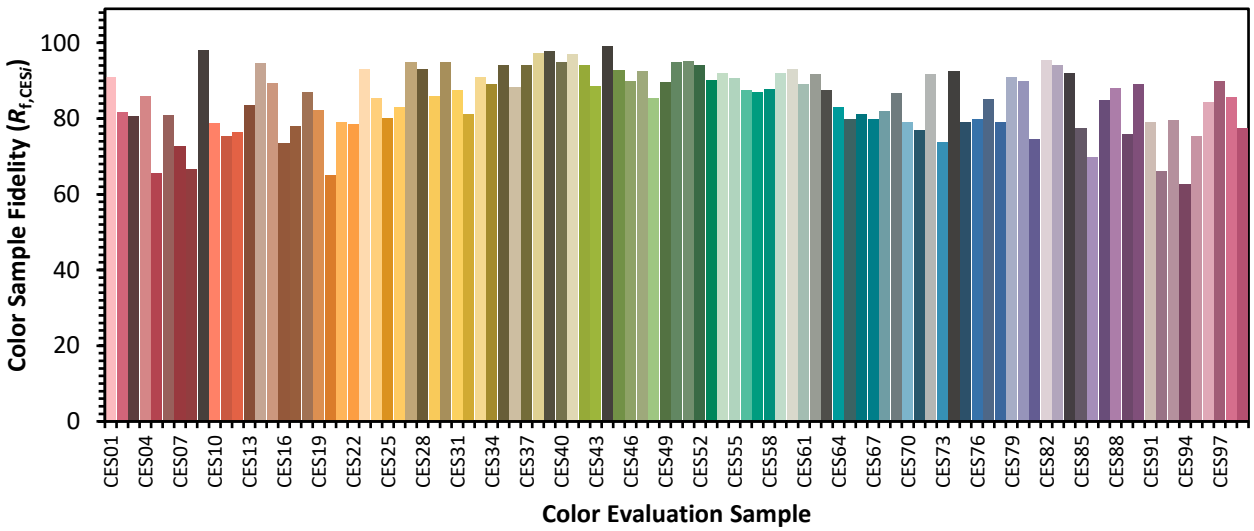


REPORT NUMBER: SP1-2512-637-1

TM-30-18

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

CES01 = 86	CES26 = 83	CES51 = 95	CES76 = 80
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 86	CES54 = 92	CES79 = 91
CES05 = 49	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 87	CES56 = 88	CES81 = 74
CES07 = 42	CES32 = 81	CES57 = 87	CES82 = 95
CES08 = 41	CES33 = 91	CES58 = 88	CES83 = 94
CES09 = 29	CES34 = 89	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 94	CES60 = 93	CES85 = 78
CES11 = 59	CES36 = 88	CES61 = 89	CES86 = 70
CES12 = 65	CES37 = 94	CES62 = 92	CES87 = 85
CES13 = 43	CES38 = 97	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 83	CES89 = 76
CES15 = 71	CES40 = 95	CES65 = 80	CES90 = 89
CES16 = 47	CES41 = 97	CES66 = 81	CES91 = 79
CES17 = 50	CES42 = 94	CES67 = 80	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 82	CES93 = 80
CES19 = 72	CES44 = 99	CES69 = 87	CES94 = 63
CES20 = 66	CES45 = 93	CES70 = 79	CES95 = 75
CES21 = 87	CES46 = 90	CES71 = 77	CES96 = 84
CES22 = 79	CES47 = 93	CES72 = 92	CES97 = 90
CES23 = 92	CES48 = 86	CES73 = 74	CES98 = 86
CES24 = 91	CES49 = 90	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 95	CES75 = 79	



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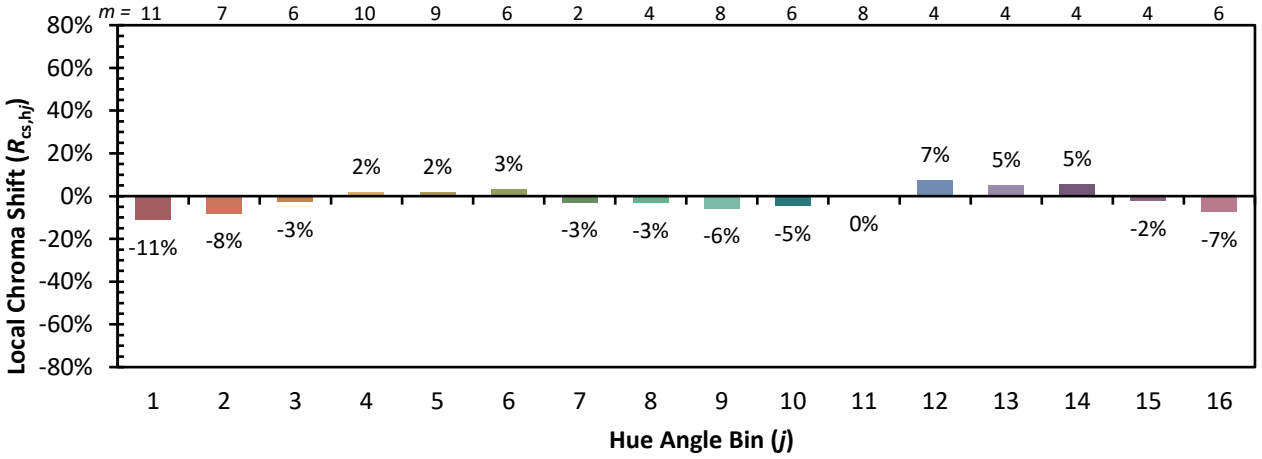
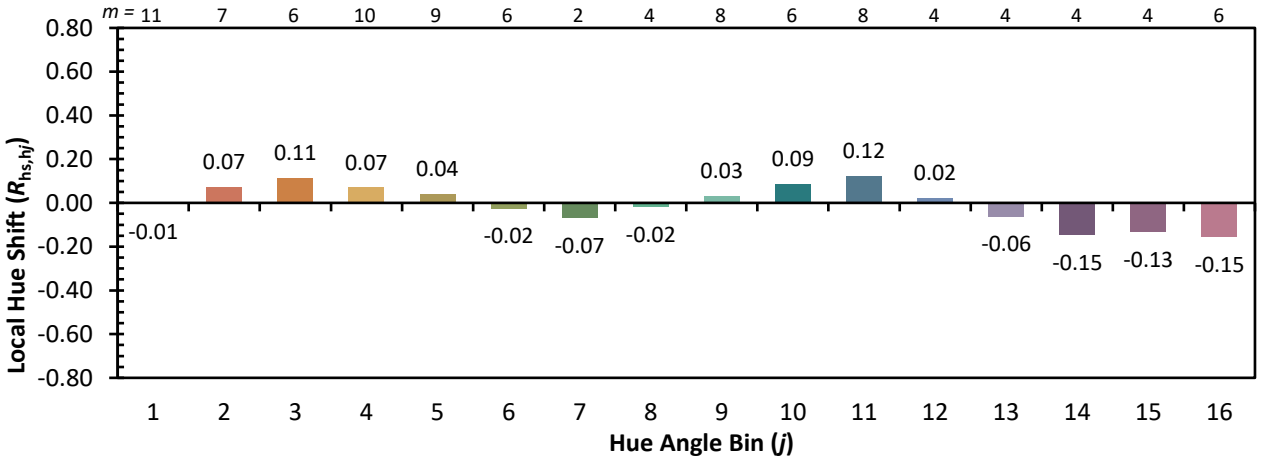
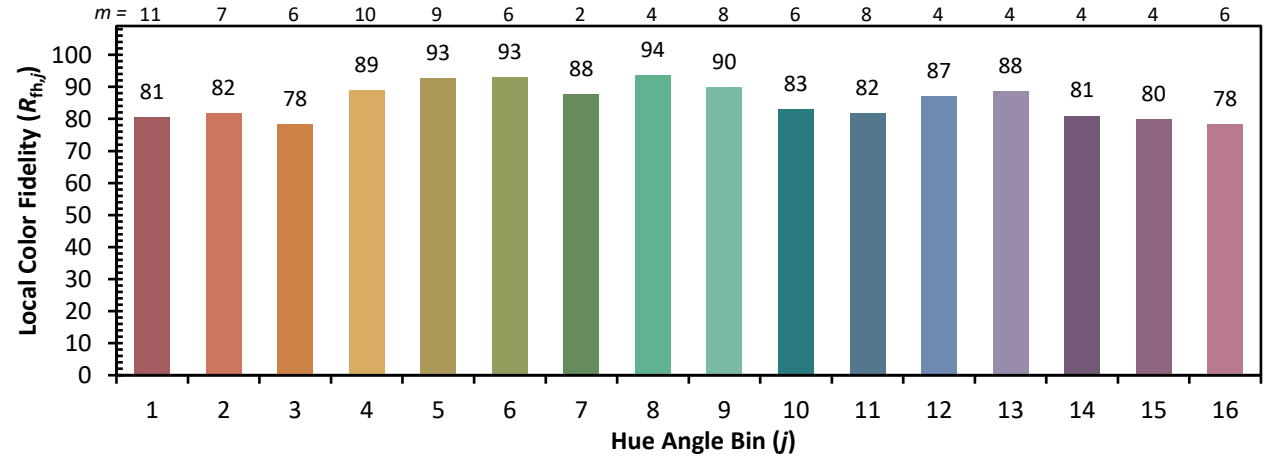
Color Rendition by Hue-Angle Bin







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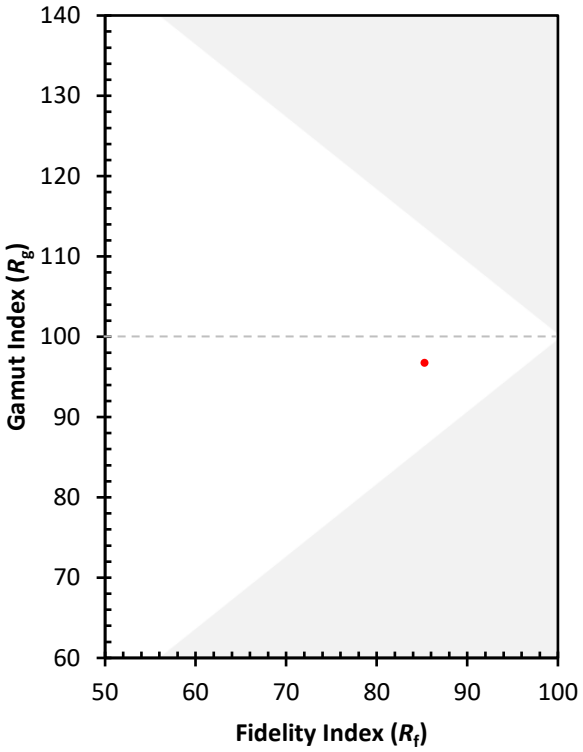
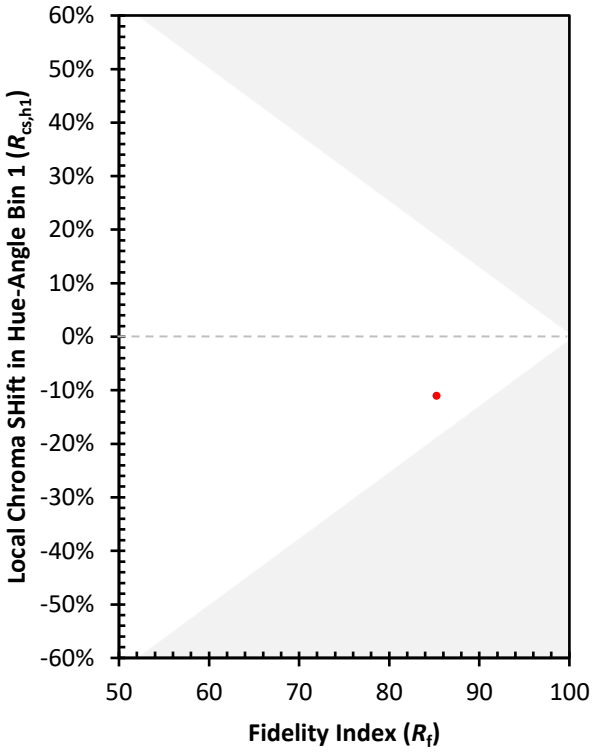
Measure Comparisons





(END OF REPORT)