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: P1449802

Luminaire Tested: **AXCS5ARL-GRF-W**

Issue Date: 5/12/2026

Report Generated By 670246072

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449802
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1901-095-3)
Test Lab:	INNOVATION CENTER
Issue Date:	5/12/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	AXCS5ARL-GRF-W
Description:	5A AXCENT LED REFRACTIVE LENS WALLPACK WITH 3000K 80CRI LEDS AND GLARE REDUCTING LENS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5474 lumens
Efficiency:	N/A
Efficacy:	122.7 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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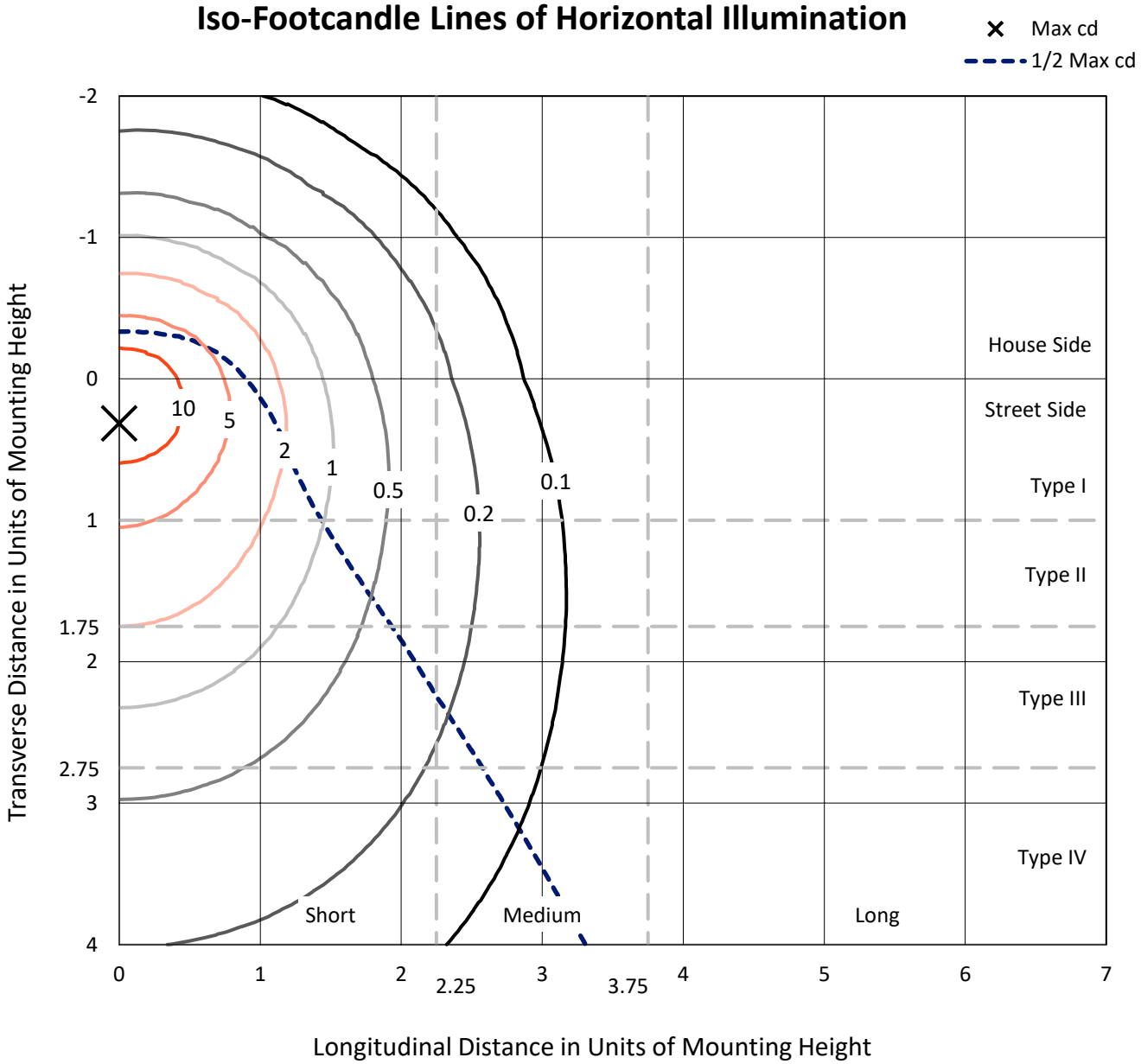
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
Type IV - Short - N/A

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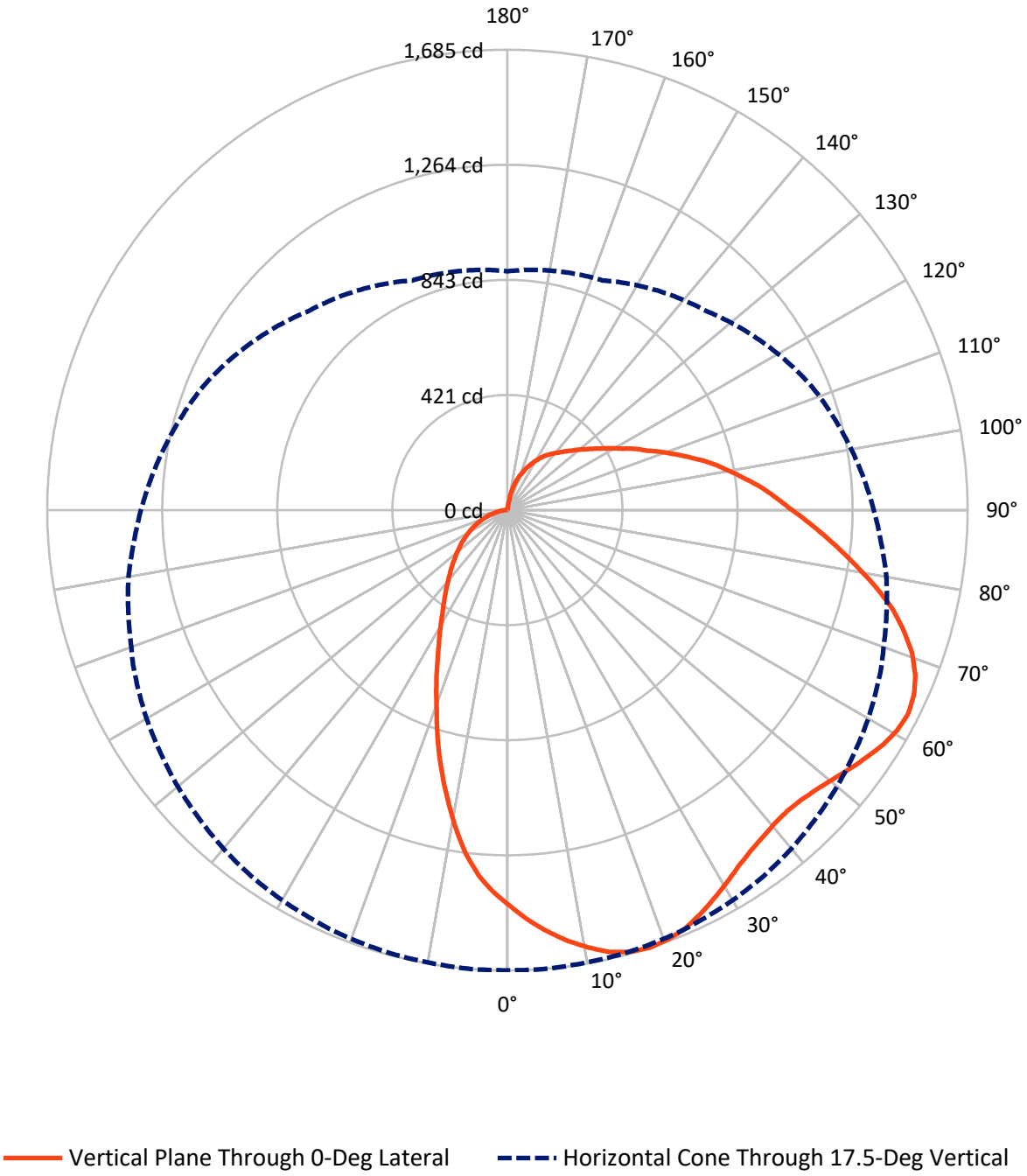
Luminous Intensity Polar Plot



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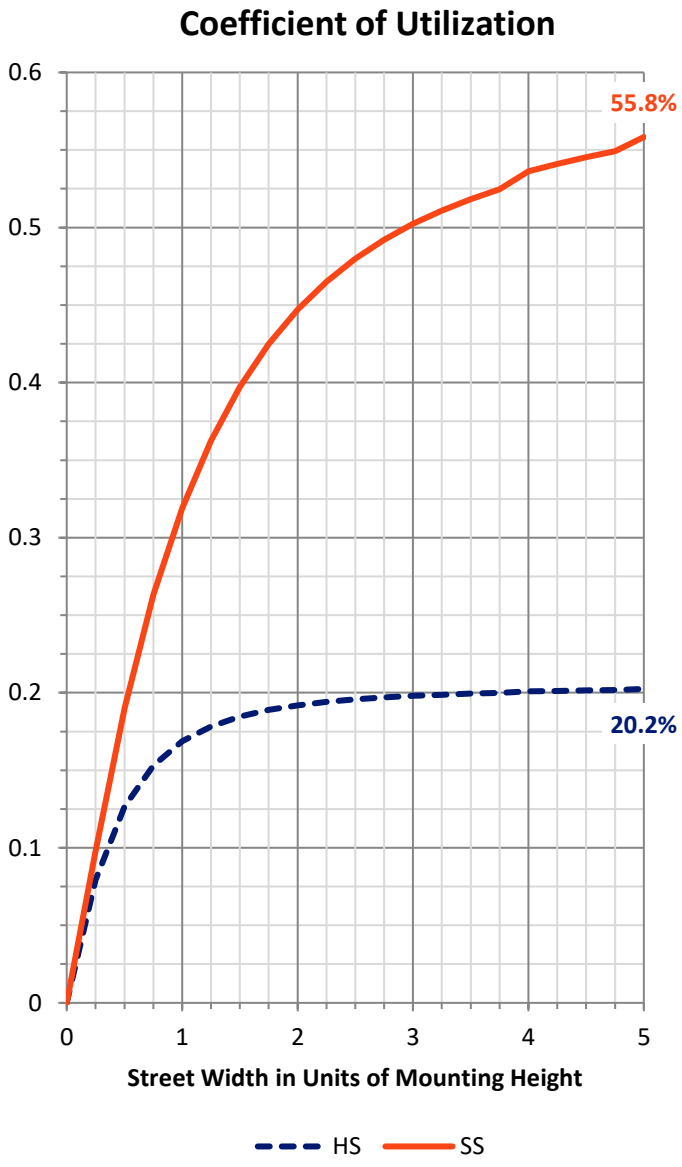
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.1	77.1	1204.2
	% Fixture	20.6	1.4	22.0
Street Side	Lumens	3313.6	956.1	4269.7
	% Fixture	60.5	17.5	78.0
Total	Lumens	4440.8	1033.2	5474.0
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	2.5
10°-20°	380.2	6.9
20°-30°	543.2	9.9
30°-40°	618.6	11.3
40°-50°	636.4	11.6
50°-60°	630.3	11.5
60°-70°	596.4	10.9
70°-80°	508.2	9.3
80°-90°	390.8	7.1
90°-100°	309.1	5.6
100°-110°	242.9	4.4
110°-120°	178.4	3.3
120°-130°	126.6	2.3
130°-140°	86.8	1.6
140°-150°	54.0	1.0
150°-160°	27.1	0.5
160°-170°	7.9	0.1
170°-180°	0.4	0.0
0°-90°	4440.8	81.1
0°-180°	5474.0	100.0



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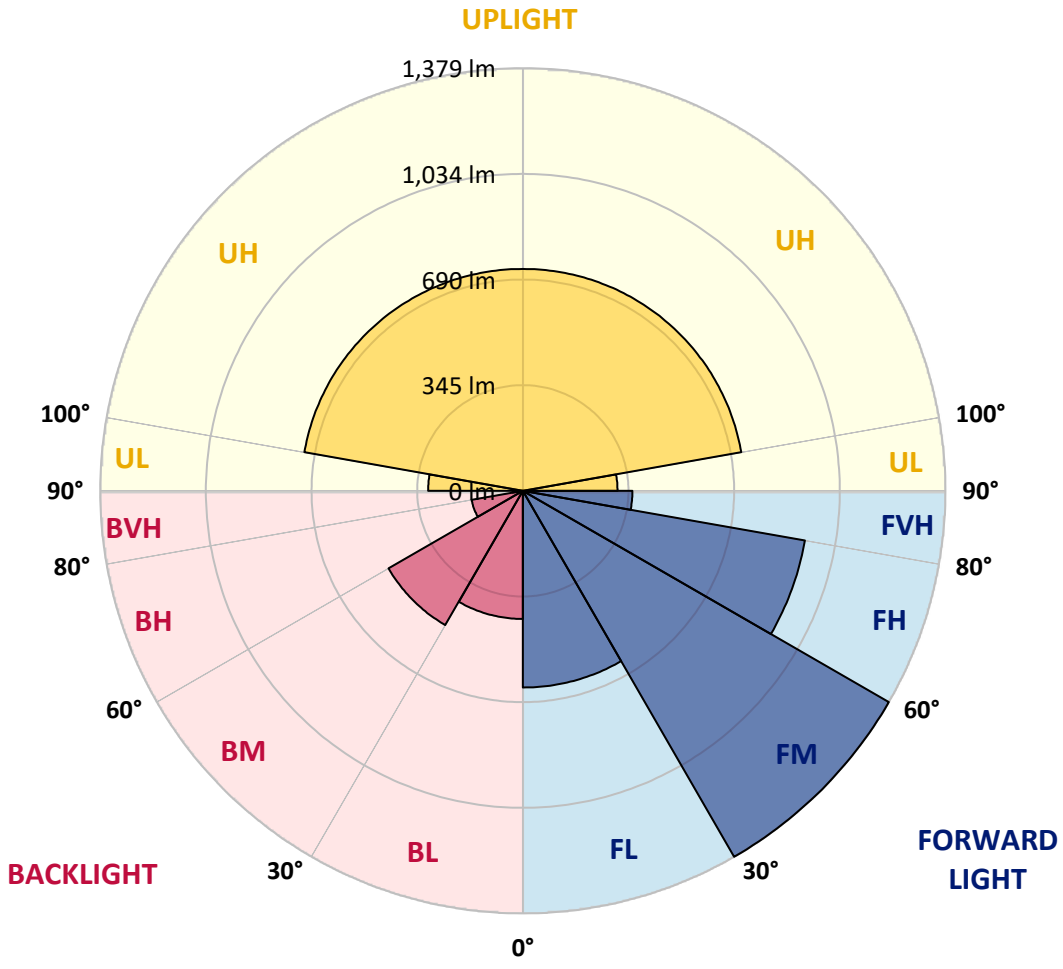
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	642.0	11.7			
FM	(30°-60°)	1379.3	25.2			
FH	(60°-80°)	934.9	17.1			G1/1800
FVH	(80°-90°)	357.5	6.5			G3/500
BL	(0°-30°)	418.2	7.6	B1/500		
BM	(30°-60°)	506.0	9.2	B1/1000		
BH	(60°-80°)	169.6	3.1	B1/500		G1/500
BVH	(80°-90°)	33.3	0.6			G1/100
UL	(90°-100°)	309.1	5.6		U3/500	
UH	(100°-180°)	724.1	13.2		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1504.5	1504.5	1504.5	1501.0	1501.0	1501.0	1501.0	1501.0	1493.9	1493.9	1490.4
5°	1550.5	1550.5	1550.5	1547.0	1547.0	1543.5	1539.9	1536.4	1532.8	1525.8	1522.2
7.5°	1593.0	1589.5	1589.5	1585.9	1582.4	1582.4	1578.9	1571.8	1564.7	1554.1	1547.0
10°	1628.4	1628.4	1624.9	1621.3	1617.8	1614.3	1610.7	1600.1	1589.5	1578.9	1568.2
12.5°	1660.3	1656.7	1656.7	1649.7	1642.6	1639.0	1635.5	1628.4	1614.3	1600.1	1582.4
15°	1678.0	1678.0	1674.4	1667.4	1660.3	1656.7	1653.2	1642.6	1628.4	1610.7	1593.0
17.5°	1685.1	1685.1	1681.5	1678.0	1670.9	1667.4	1660.3	1649.7	1635.5	1617.8	1596.6
20°	1678.0	1678.0	1674.4	1670.9	1667.4	1660.3	1656.7	1646.1	1632.0	1614.3	1593.0
22.5°	1663.8	1663.8	1660.3	1656.7	1649.7	1646.1	1642.6	1632.0	1617.8	1600.1	1578.9
25°	1639.0	1635.5	1635.5	1632.0	1624.9	1621.3	1617.8	1607.2	1593.0	1578.9	1557.6
27.5°	1610.7	1607.2	1603.6	1600.1	1596.6	1589.5	1585.9	1578.9	1564.7	1547.0	1525.8
30°	1582.4	1578.9	1578.9	1571.8	1564.7	1561.2	1554.1	1543.5	1529.3	1508.1	1490.4
32.5°	1554.1	1554.1	1547.0	1543.5	1532.8	1525.8	1522.2	1504.5	1490.4	1469.1	1444.3
35°	1532.8	1532.8	1525.8	1518.7	1504.5	1497.4	1490.4	1469.1	1451.4	1426.6	1398.3
37.5°	1518.7	1515.1	1508.1	1493.9	1479.7	1472.7	1462.0	1437.3	1412.5	1384.2	1355.8
40°	1508.1	1504.5	1493.9	1483.3	1462.0	1451.4	1437.3	1408.9	1377.1	1341.7	1306.3
42.5°	1504.5	1501.0	1490.4	1472.7	1447.9	1433.7	1416.0	1380.6	1345.2	1302.7	1260.3
45°	1511.6	1504.5	1490.4	1469.1	1437.3	1419.6	1401.9	1359.4	1313.4	1267.3	1217.8
47.5°	1525.8	1518.7	1501.0	1476.2	1440.8	1416.0	1394.8	1345.2	1288.6	1235.5	1175.3
50°	1547.0	1536.4	1518.7	1486.8	1444.3	1419.6	1391.2	1331.1	1267.3	1203.6	1139.9
52.5°	1571.8	1561.2	1539.9	1504.5	1455.0	1426.6	1394.8	1324.0	1253.2	1178.8	1104.5
55°	1596.6	1589.5	1561.2	1522.2	1465.6	1433.7	1398.3	1320.4	1239.0	1154.1	1072.6
57.5°	1621.3	1610.7	1585.9	1539.9	1479.7	1444.3	1401.9	1316.9	1224.9	1132.8	1044.3
60°	1639.0	1628.4	1600.1	1550.5	1486.8	1444.3	1401.9	1309.8	1210.7	1111.6	1012.5
62.5°	1646.1	1632.0	1603.6	1554.1	1483.3	1444.3	1398.3	1299.2	1193.0	1083.3	984.1
65°	1635.5	1624.9	1596.6	1547.0	1472.7	1430.2	1384.2	1281.5	1171.8	1058.5	952.3
67.5°	1610.7	1600.1	1571.8	1522.2	1451.4	1405.4	1359.4	1253.2	1139.9	1026.6	916.9
70°	1571.8	1564.7	1532.8	1486.8	1412.5	1370.0	1324.0	1217.8	1104.5	991.2	881.5
72.5°	1518.7	1511.6	1483.3	1433.7	1366.5	1324.0	1278.0	1175.3	1065.6	952.3	839.0
75°	1458.5	1444.3	1416.0	1373.5	1309.8	1267.3	1224.9	1125.7	1019.5	906.3	800.1
77.5°	1384.2	1377.1	1348.8	1309.8	1242.6	1207.2	1164.7	1069.1	966.4	860.2	757.6
80°	1306.3	1302.7	1281.5	1235.5	1178.8	1143.4	1101.0	1012.5	913.3	810.7	711.6
82.5°	1231.9	1228.4	1207.2	1164.7	1108.0	1076.2	1040.8	952.3	860.2	764.7	672.6
85°	1161.1	1154.1	1136.4	1097.4	1044.3	1012.5	977.1	895.6	807.1	722.2	630.1
87.5°	1093.9	1086.8	1065.6	1030.2	984.1	948.7	916.9	842.5	761.1	679.7	598.3
90°	1030.2	1026.6	1005.4	977.1	927.5	899.2	867.3	800.1	722.2	644.3	566.4
92.5°	977.1	973.5	955.8	920.4	877.9	853.2	821.3	761.1	690.3	616.0	548.7
95°	924.0	916.9	899.2	874.4	831.9	810.7	778.8	722.2	658.5	591.2	523.9
97.5°	867.3	863.8	849.6	821.3	785.9	764.7	739.9	683.2	626.6	566.4	506.2
100°	814.2	810.7	800.1	775.3	739.9	718.6	697.4	647.8	594.7	538.1	481.4
102.5°	764.7	757.6	747.0	722.2	693.9	672.6	654.9	608.9	559.3	506.2	460.2
105°	708.0	704.5	690.3	676.2	644.3	630.1	608.9	569.9	523.9	477.9	431.9
107.5°	654.9	651.4	640.8	626.6	601.8	584.1	566.4	531.0	492.1	449.6	407.1
110°	605.3	601.8	594.7	580.6	555.8	545.2	531.0	499.1	463.7	424.8	385.9

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REPORT NUMBER: P1449802
CATALOG NUMBER: AXCS5ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	*555.8*	555.8	548.7	538.1	516.8	502.7	492.1	463.7	431.9	400.0	364.6
115°	*520.4*	513.3	509.8	495.6	481.4	470.8	460.2	431.9	407.1	375.2	346.9
117.5°	*477.9*	477.9	470.8	460.2	446.0	435.4	428.3	403.6	378.8	354.0	325.7
120°	*446.0*	442.5	439.0	428.3	414.2	407.1	400.0	378.8	357.5	332.8	308.0
122.5°	*414.2*	410.6	407.1	400.0	389.4	382.3	375.2	357.5	336.3	315.1	293.8
125°	*385.9*	385.9	382.3	375.2	364.6	357.5	350.5	336.3	318.6	297.4	276.1
127.5°	*361.1*	361.1	357.5	350.5	343.4	336.3	329.2	318.6	300.9	283.2	265.5
130°	*339.8*	336.3	336.3	329.2	322.1	315.1	311.5	297.4	283.2	269.0	251.3
132.5°	*318.6*	318.6	315.1	308.0	304.4	297.4	293.8	283.2	269.0	254.9	237.2
135°	*300.9*	300.9	297.4	293.8	286.7	283.2	279.7	269.0	254.9	240.7	226.6
137.5°	*283.2*	283.2	279.7	276.1	272.6	269.0	262.0	254.9	240.7	226.6	212.4
140°	*269.0*	269.0	265.5	262.0	254.9	251.3	247.8	240.7	230.1	215.9	201.8
142.5°	*254.9*	254.9	251.3	247.8	240.7	237.2	233.6	226.6	215.9	201.8	187.6
145°	*240.7*	237.2	237.2	233.6	226.6	223.0	219.5	212.4	201.8	187.6	173.5
147.5°	*223.0*	223.0	219.5	215.9	208.9	205.3	201.8	194.7	184.1	173.5	159.3
150°	*205.3*	205.3	201.8	198.2	194.7	191.2	187.6	180.5	169.9	159.3	145.1
152.5°	*187.6*	187.6	184.1	180.5	177.0	173.5	169.9	162.8	152.2	145.1	134.5
155°	*169.9*	169.9	166.4	162.8	159.3	155.8	152.2	145.1	138.1	127.4	120.4
157.5°	*148.7*	148.7	148.7	145.1	141.6	138.1	134.5	127.4	120.4	113.3	106.2
160°	*131.0*	131.0	127.4	127.4	123.9	120.4	116.8	113.3	106.2	99.1	92.0
162.5°	*113.3*	109.7	109.7	106.2	106.2	102.7	99.1	95.6	88.5	85.0	67.3
165°	*92.0*	92.0	92.0	88.5	85.0	85.0	81.4	74.3	60.2	49.6	38.9
167.5°	*63.7*	63.7	60.2	53.1	49.6	46.0	42.5	35.4	31.9	28.3	28.3
170°	*24.8*	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	21.2	21.2
172.5°	*17.7*	17.7	17.7	14.2	14.2	14.2	14.2	14.2	14.2	10.6	10.6
175°	*3.5*	3.5	3.5	3.5	7.1	3.5	7.1	7.1	3.5	3.5	3.5
177.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	*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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
0°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1486.8	1479.7	1479.7	1472.7	1472.7	1469.1	1465.6	1458.5	1455.0	1451.4	1426.6
5°	1515.1	1508.1	1497.4	1490.4	1486.8	1479.7	1472.7	1462.0	1455.0	1444.3	1401.9
7.5°	1536.4	1525.8	1511.6	1501.0	1493.9	1486.8	1472.7	1462.0	1447.9	1433.7	1373.5
10°	1554.1	1539.9	1525.8	1508.1	1501.0	1490.4	1472.7	1455.0	1437.3	1416.0	1338.1
12.5°	1568.2	1550.5	1529.3	1508.1	1501.0	1490.4	1465.6	1444.3	1423.1	1398.3	1295.7
15°	1575.3	1554.1	1529.3	1504.5	1493.9	1479.7	1455.0	1426.6	1401.9	1373.5	1249.6
17.5°	*1575.3*	*1550.5*	*1525.8*	*1497.4*	*1483.3*	*1465.6*	*1437.3*	*1408.9*	*1373.5*	*1341.7*	*1200.1*
20°	1568.2	1539.9	1511.6	1479.7	1465.6	1447.9	1416.0	1380.6	1345.2	1306.3	1143.4
22.5°	1554.1	1525.8	1493.9	1458.5	1440.8	1423.1	1387.7	1348.8	1309.8	1267.3	1083.3
25°	1529.3	1501.0	1465.6	1433.7	1412.5	1391.2	1352.3	1309.8	1267.3	1221.3	1019.5
27.5°	1501.0	1469.1	1437.3	1398.3	1377.1	1355.8	1309.8	1267.3	1221.3	1175.3	959.4
30°	1462.0	1430.2	1394.8	1355.8	1334.6	1313.4	1267.3	1221.3	1171.8	1118.7	899.2
32.5°	1419.6	1387.7	1348.8	1309.8	1285.0	1263.8	1217.8	1168.2	1118.7	1065.6	831.9
35°	1373.5	1338.1	1299.2	1256.7	1235.5	1210.7	1161.1	1111.6	1062.0	1008.9	771.7
37.5°	1320.4	1285.0	1246.1	1203.6	1178.8	1157.6	1104.5	1054.9	1001.8	945.2	711.6
40°	1270.9	1231.9	1189.5	1147.0	1122.2	1097.4	1047.9	994.8	938.1	885.0	658.5
42.5°	1217.8	1175.3	1132.8	1086.8	1062.0	1033.7	984.1	931.0	877.9	821.3	601.8
45°	1168.2	1122.2	1072.6	1026.6	1001.8	977.1	920.4	870.9	814.2	761.1	552.2
47.5°	1122.2	1069.1	1019.5	966.4	941.7	916.9	863.8	810.7	757.6	708.0	506.2
50°	1076.2	1019.5	962.9	909.8	885.0	860.2	803.6	754.0	697.4	647.8	463.7
52.5°	1033.7	970.0	909.8	856.7	828.4	803.6	750.5	693.9	644.3	594.7	421.3
55°	994.8	924.0	860.2	800.1	775.3	750.5	693.9	640.8	591.2	541.6	385.9
57.5°	959.4	881.5	814.2	754.0	722.2	697.4	644.3	591.2	541.6	492.1	350.5
60°	924.0	842.5	768.2	704.5	676.2	647.8	594.7	545.2	495.6	449.6	318.6
62.5°	885.0	803.6	725.7	662.0	630.1	601.8	548.7	499.1	449.6	403.6	286.7
65°	849.6	764.7	686.8	619.5	587.6	559.3	506.2	456.7	407.1	364.6	258.4
67.5°	814.2	725.7	647.8	577.0	545.2	516.8	463.7	414.2	368.2	329.2	230.1
70°	778.8	686.8	605.3	541.6	509.8	477.9	424.8	375.2	329.2	290.3	205.3
72.5°	739.9	651.4	573.5	502.7	470.8	442.5	389.4	339.8	293.8	258.4	180.5
75°	700.9	612.4	534.5	467.3	435.4	407.1	350.5	304.4	258.4	223.0	159.3
77.5°	658.5	573.5	499.1	431.9	403.6	371.7	318.6	269.0	226.6	194.7	134.5
80°	623.0	538.1	467.3	400.0	371.7	343.4	286.7	240.7	198.2	169.9	116.8
82.5°	584.1	502.7	431.9	368.2	339.8	311.5	258.4	212.4	169.9	141.6	99.1
85°	548.7	474.4	403.6	343.4	315.1	286.7	237.2	187.6	148.7	123.9	85.0
87.5°	520.4	449.6	382.3	322.1	293.8	269.0	215.9	169.9	131.0	106.2	74.3
90°	495.6	428.3	364.6	308.0	283.2	254.9	205.3	159.3	120.4	99.1	63.7
92.5°	481.4	417.7	357.5	304.4	276.1	251.3	201.8	155.8	116.8	95.6	63.7
95°	463.7	403.6	346.9	293.8	269.0	244.3	194.7	152.2	116.8	95.6	63.7
97.5°	446.0	389.4	336.3	286.7	262.0	237.2	191.2	148.7	113.3	92.0	60.2
100°	428.3	375.2	322.1	276.1	251.3	230.1	184.1	145.1	109.7	88.5	60.2
102.5°	407.1	357.5	311.5	265.5	244.3	219.5	180.5	141.6	109.7	88.5	60.2
105°	385.9	339.8	297.4	254.9	233.6	212.4	173.5	134.5	106.2	85.0	56.6
107.5°	368.2	325.7	283.2	244.3	223.0	205.3	166.4	131.0	102.7	81.4	56.6
110°	346.9	308.0	272.6	233.6	215.9	198.2	162.8	127.4	99.1	77.9	56.6

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

Scaled Data Report

REPORT NUMBER: P1449802
CATALOG NUMBER: AXCS5ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
112.5°	329.2	293.8	258.4	226.6	205.3	187.6	155.8	123.9	95.6	74.3	53.1
115°	311.5	279.7	247.8	215.9	198.2	180.5	148.7	116.8	88.5	70.8	49.6
117.5°	297.4	265.5	237.2	205.3	187.6	173.5	141.6	113.3	85.0	67.3	49.6
120°	283.2	254.9	226.6	194.7	180.5	166.4	134.5	106.2	81.4	63.7	46.0
122.5°	269.0	240.7	215.9	187.6	173.5	159.3	131.0	102.7	77.9	60.2	42.5
125°	254.9	230.1	205.3	180.5	166.4	152.2	123.9	99.1	74.3	56.6	42.5
127.5°	244.3	219.5	194.7	169.9	155.8	145.1	116.8	92.0	70.8	53.1	38.9
130°	230.1	208.9	187.6	162.8	148.7	138.1	109.7	88.5	63.7	49.6	38.9
132.5°	219.5	198.2	177.0	152.2	141.6	127.4	106.2	81.4	60.2	46.0	35.4
135°	208.9	187.6	166.4	145.1	131.0	120.4	99.1	77.9	56.6	46.0	31.9
137.5°	194.7	177.0	155.8	134.5	123.9	113.3	92.0	70.8	53.1	42.5	31.9
140°	184.1	166.4	145.1	127.4	116.8	106.2	85.0	67.3	46.0	38.9	28.3
142.5°	169.9	152.2	134.5	116.8	109.7	99.1	77.9	60.2	42.5	35.4	24.8
145°	159.3	145.1	127.4	109.7	99.1	92.0	74.3	56.6	38.9	31.9	24.8
147.5°	145.1	131.0	116.8	99.1	92.0	81.4	67.3	49.6	31.9	28.3	21.2
150°	134.5	120.4	106.2	92.0	81.4	74.3	60.2	46.0	28.3	24.8	17.7
152.5°	120.4	109.7	95.6	81.4	70.8	63.7	53.1	38.9	24.8	21.2	17.7
155°	109.7	99.1	85.0	67.3	60.2	56.6	46.0	35.4	21.2	17.7	14.2
157.5°	95.6	85.0	67.3	56.6	53.1	49.6	38.9	28.3	17.7	14.2	10.6
160°	81.4	63.7	49.6	46.0	46.0	42.5	31.9	21.2	14.2	14.2	10.6
162.5°	53.1	42.5	42.5	38.9	35.4	31.9	24.8	17.7	10.6	10.6	7.1
165°	35.4	35.4	31.9	28.3	28.3	24.8	17.7	10.6	10.6	7.1	7.1
167.5°	28.3	24.8	24.8	21.2	17.7	14.2	10.6	7.1	7.1	7.1	3.5
170°	17.7	17.7	14.2	10.6	10.6	10.6	7.1	3.5	3.5	3.5	3.5
172.5°	10.6	10.6	7.1	7.1	7.1	3.5	3.5	3.5	3.5	3.5	0.0
175°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: P1449802
CATALOG NUMBER: AXCS5ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	1451.4	1451.4	1451.4
2.5°	1408.9	1398.3	1401.9
5°	1366.5	1341.7	1341.7
7.5°	1316.9	1274.4	1263.8
10°	1253.2	1185.9	1168.2
12.5°	1185.9	1101.0	1069.1
15°	1108.0	1001.8	970.0
17.5°	*1030.2*	*909.8*	*874.4*
20°	952.3	821.3	775.3
22.5°	874.4	736.3	693.9
25°	800.1	662.0	619.5
27.5°	729.3	594.7	552.2
30°	662.0	538.1	499.1
32.5°	605.3	488.5	449.6
35°	548.7	439.0	410.6
37.5°	499.1	403.6	375.2
40°	460.2	371.7	343.4
42.5°	417.7	339.8	315.1
45°	382.3	311.5	290.3
47.5°	350.5	286.7	265.5
50°	322.1	265.5	244.3
52.5°	297.4	244.3	223.0
55°	269.0	223.0	205.3
57.5°	247.8	201.8	184.1
60°	226.6	184.1	166.4
62.5°	201.8	166.4	148.7
65°	184.1	148.7	131.0
67.5°	162.8	131.0	113.3
70°	145.1	113.3	95.6
72.5°	127.4	95.6	81.4
75°	109.7	81.4	67.3
77.5°	92.0	67.3	49.6
80°	77.9	53.1	38.9
82.5°	63.7	42.5	28.3
85°	53.1	31.9	17.7
87.5°	42.5	21.2	7.1
90°	31.9	7.1	0.0
92.5°	31.9	7.1	0.0
95°	31.9	7.1	0.0
97.5°	31.9	7.1	0.0
100°	31.9	7.1	0.0
102.5°	28.3	7.1	0.0
105°	28.3	7.1	0.0
107.5°	28.3	7.1	0.0
110°	28.3	7.1	0.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449802
CATALOG NUMBER: AXCS5ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	28.3	7.1	0.0
115°	24.8	7.1	0.0
117.5°	24.8	7.1	0.0
120°	24.8	3.5	0.0
122.5°	21.2	3.5	0.0
125°	21.2	3.5	0.0
127.5°	21.2	3.5	0.0
130°	17.7	3.5	0.0
132.5°	17.7	3.5	0.0
135°	17.7	3.5	0.0
137.5°	14.2	3.5	0.0
140°	14.2	0.0	0.0
142.5°	10.6	0.0	0.0
145°	10.6	0.0	0.0
147.5°	10.6	0.0	0.0
150°	7.1	0.0	0.0
152.5°	7.1	0.0	0.0
155°	7.1	0.0	0.0
157.5°	3.5	0.0	0.0
160°	3.5	0.0	0.0
162.5°	3.5	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	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

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

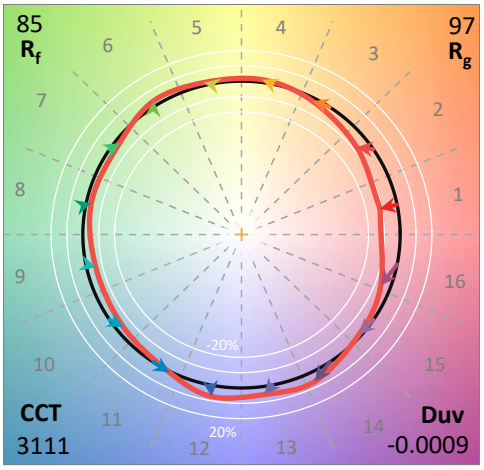
Test Information

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

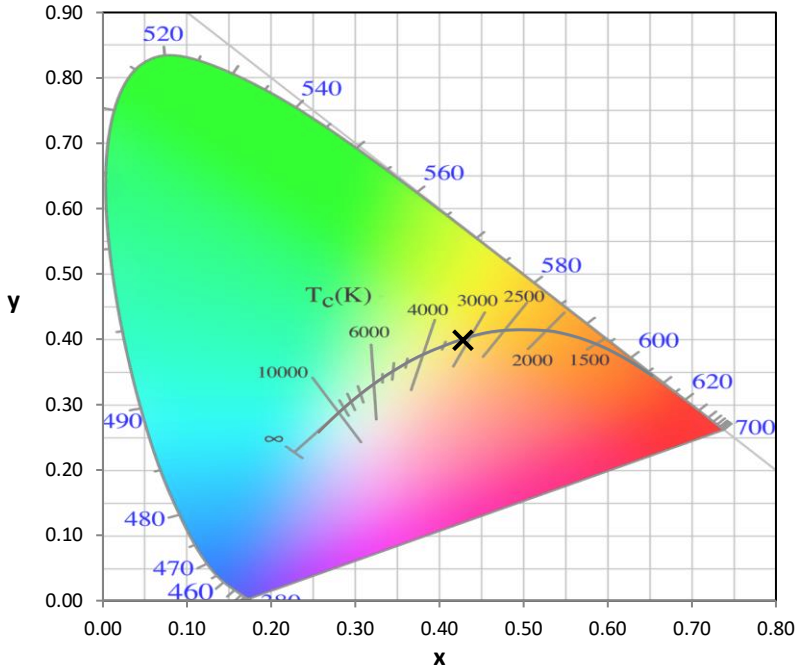
Stabilization Time:	52M
Operation Time:	1H 52M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2512-637-1

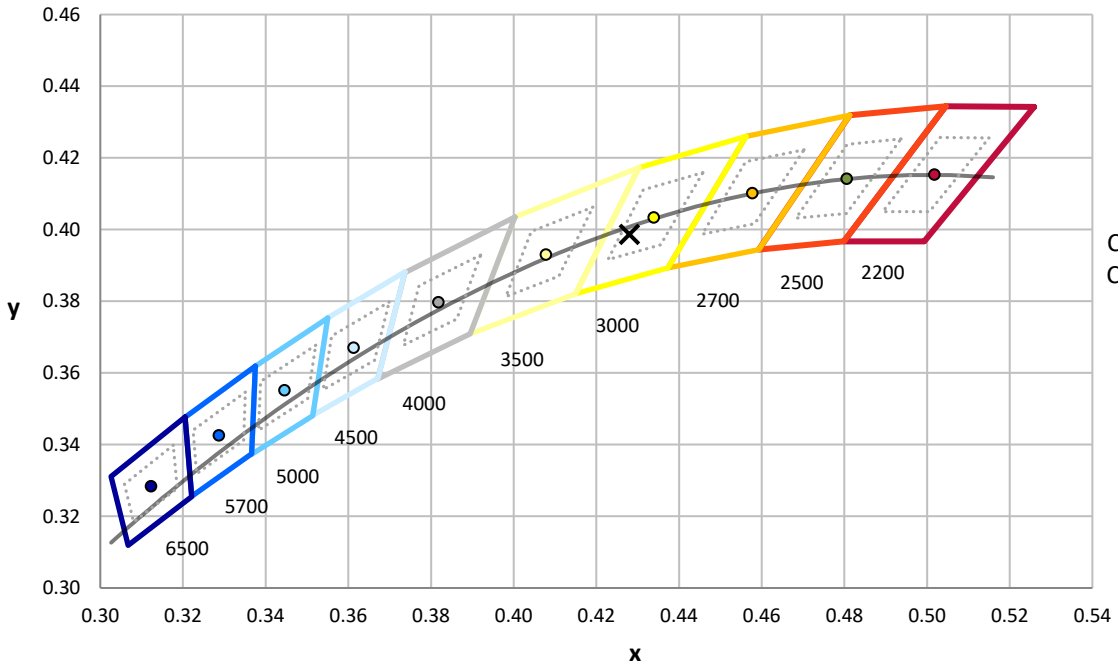
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

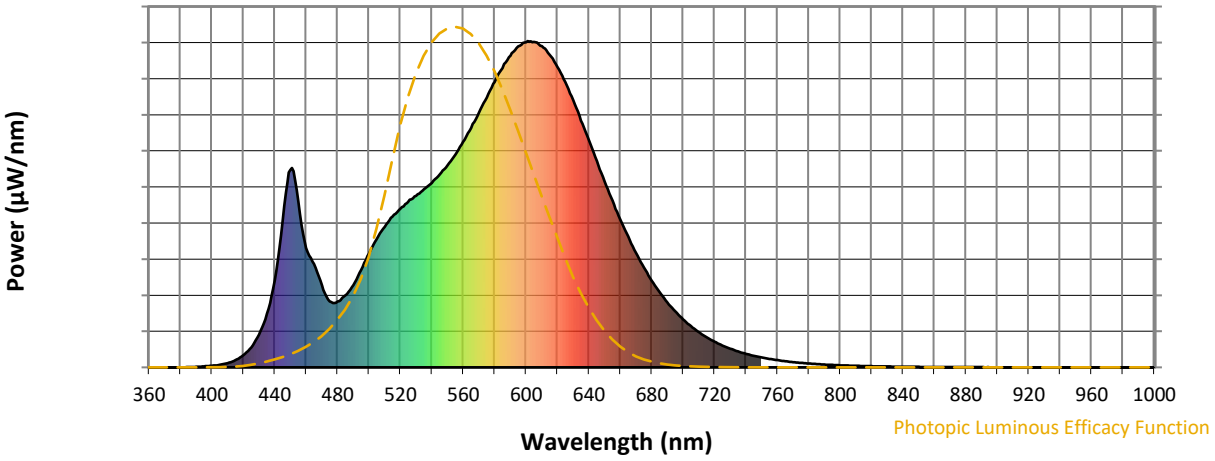


CCT = 3111K
CIE x = 0.4280
CIE y = 0.3986
Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

Photopic Flux vs. Wavelength

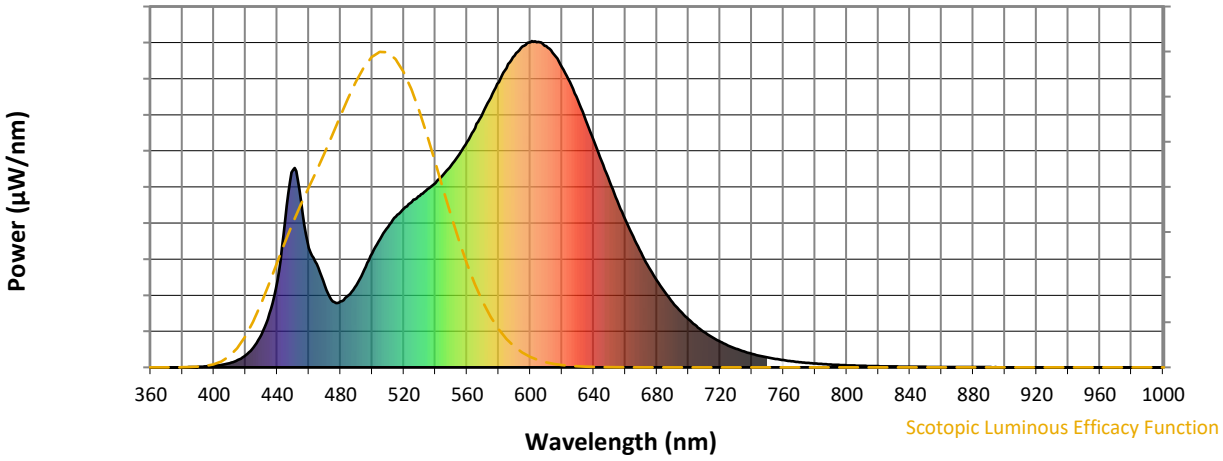


Photopic Lumens: NR

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

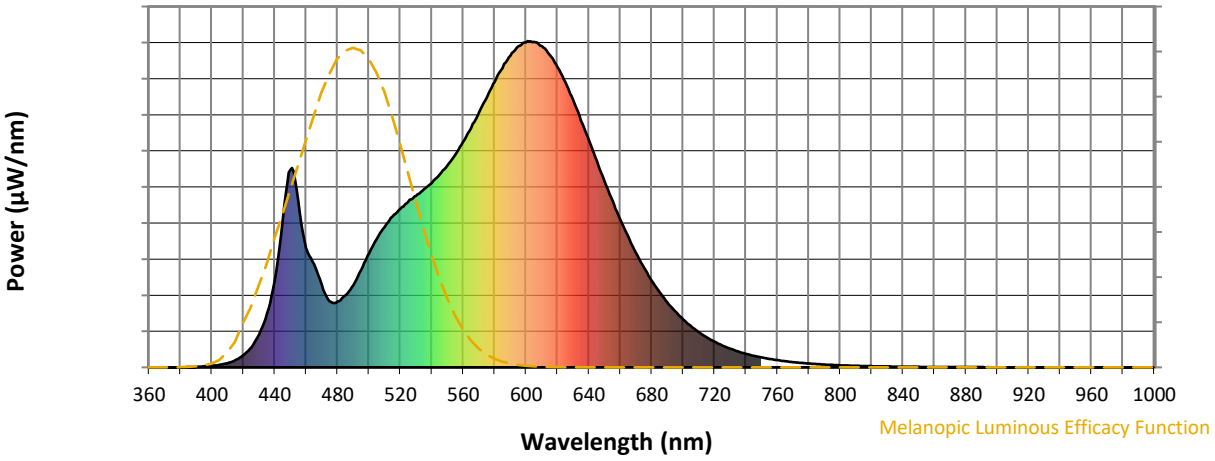


Scotopic Lumens: NR **S/P: 1.4**

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			

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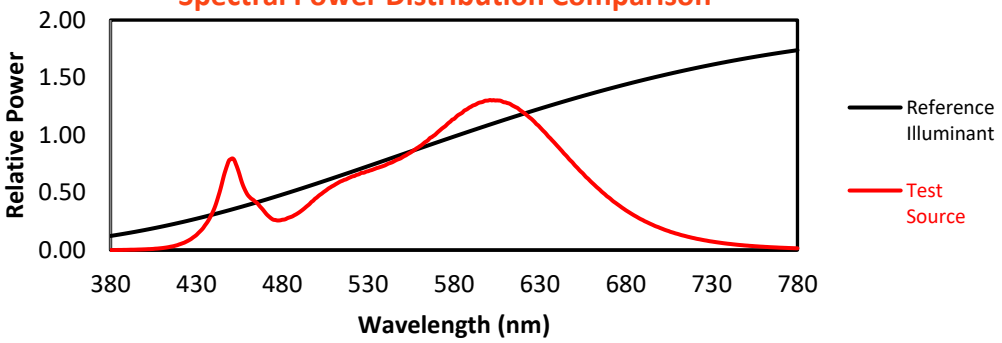
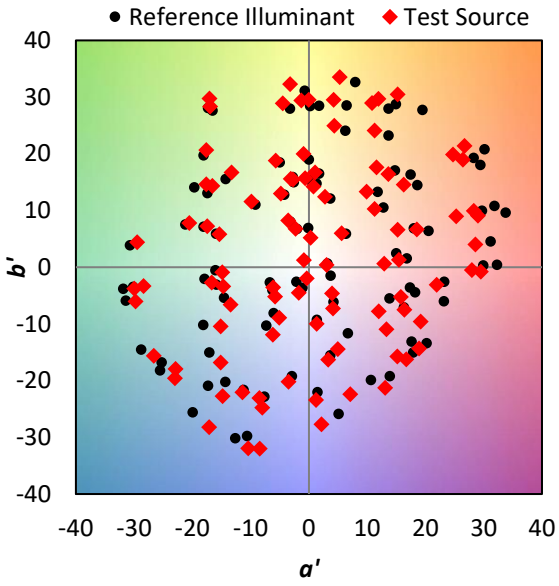
Summary

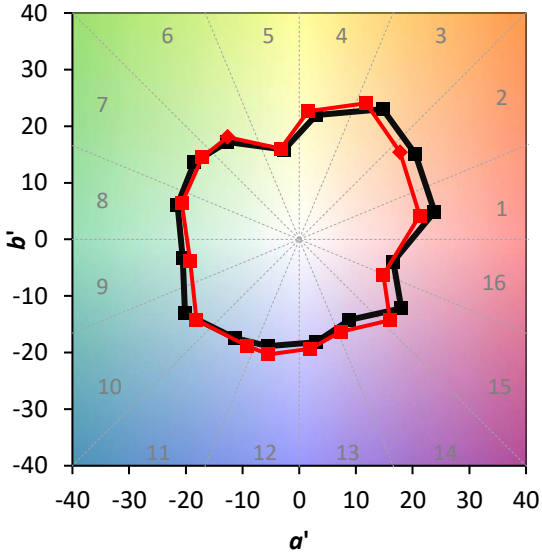
R_f = 85.3
R_g = 96.7
CIE R_a = 83.4
R_9 = 8.9

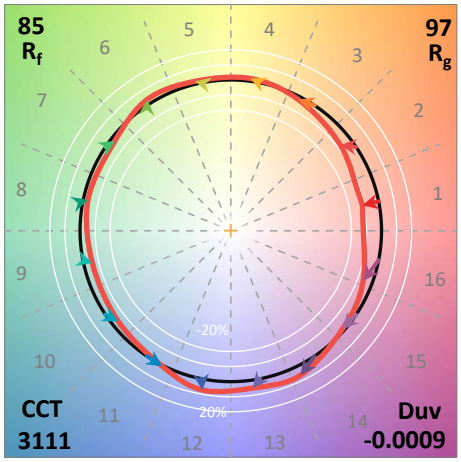
Spectral Power Distribution Comparison

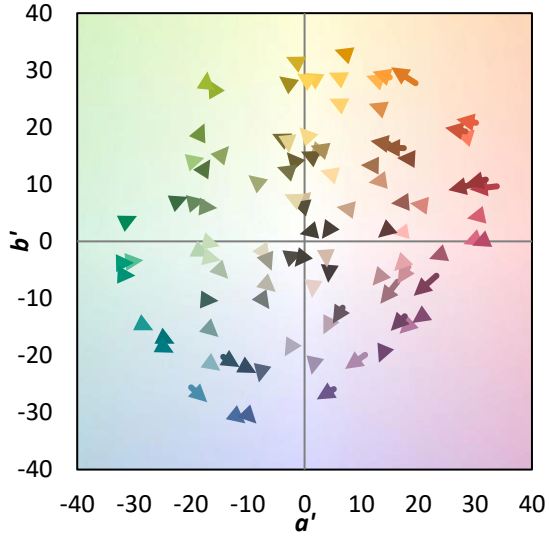


Color Vector Graphics









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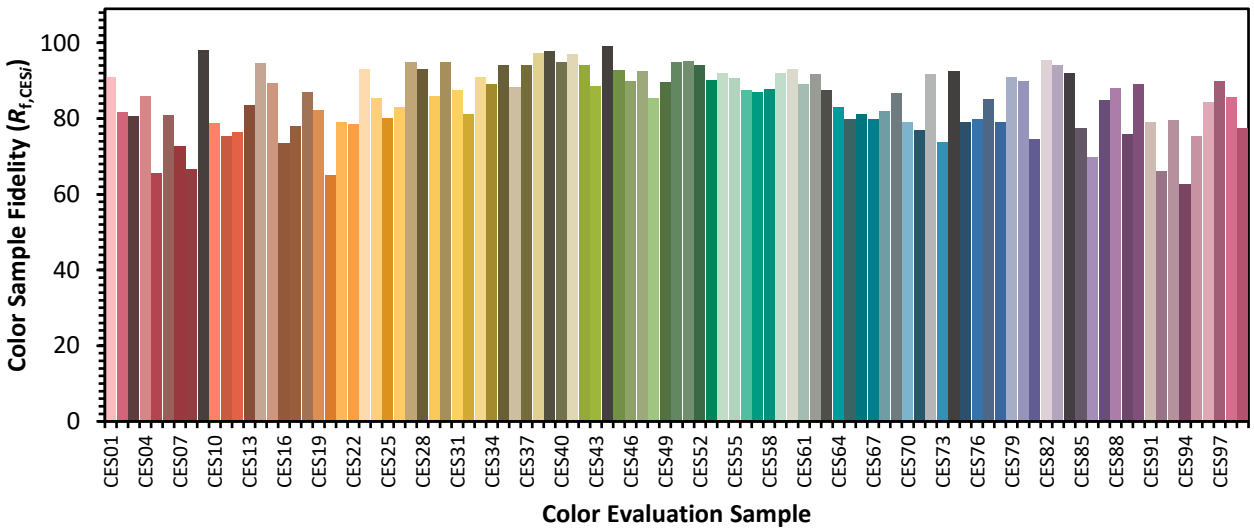
Individual Sample Fidelity Index ($R_{f,i}$)

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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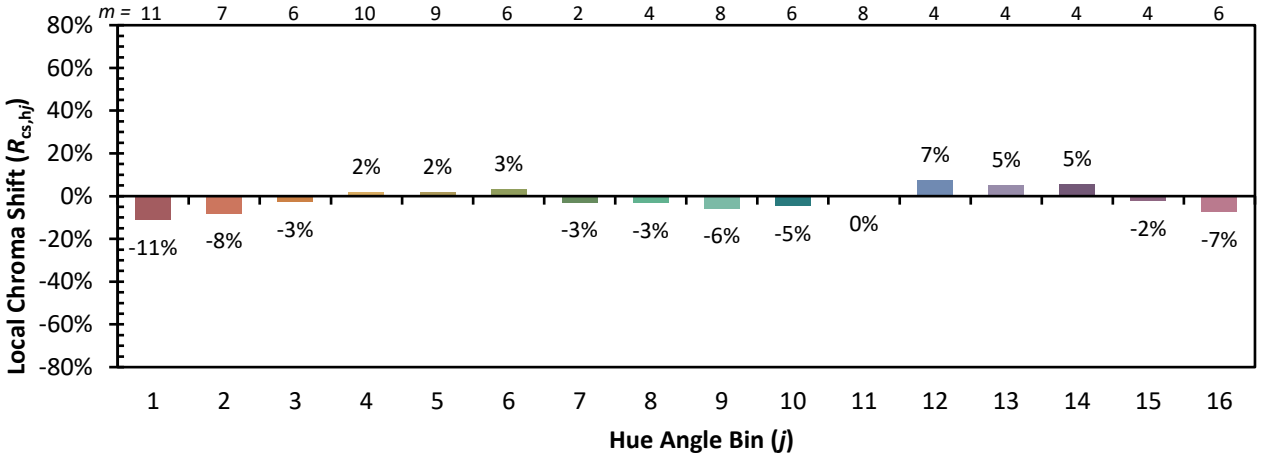
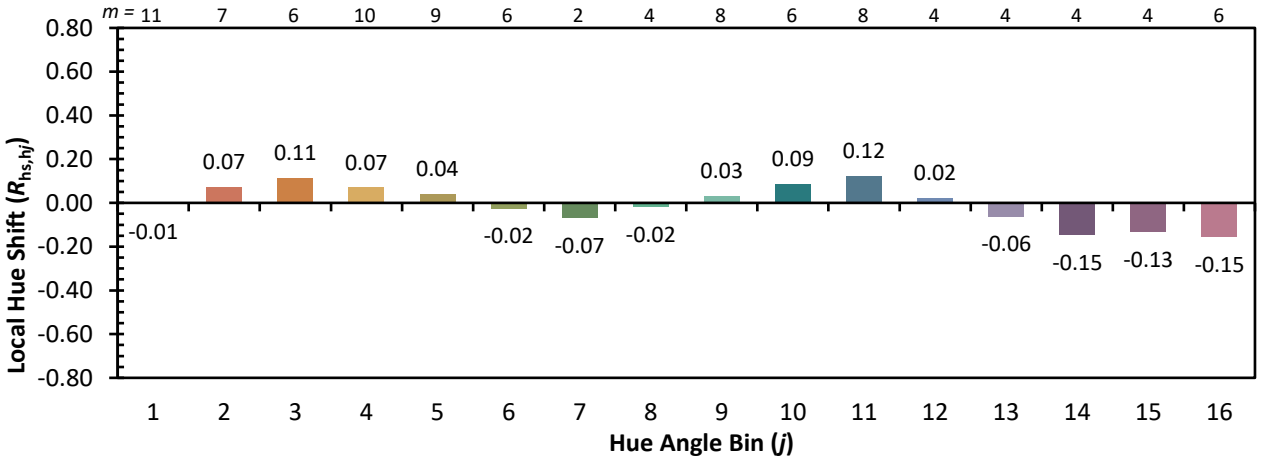
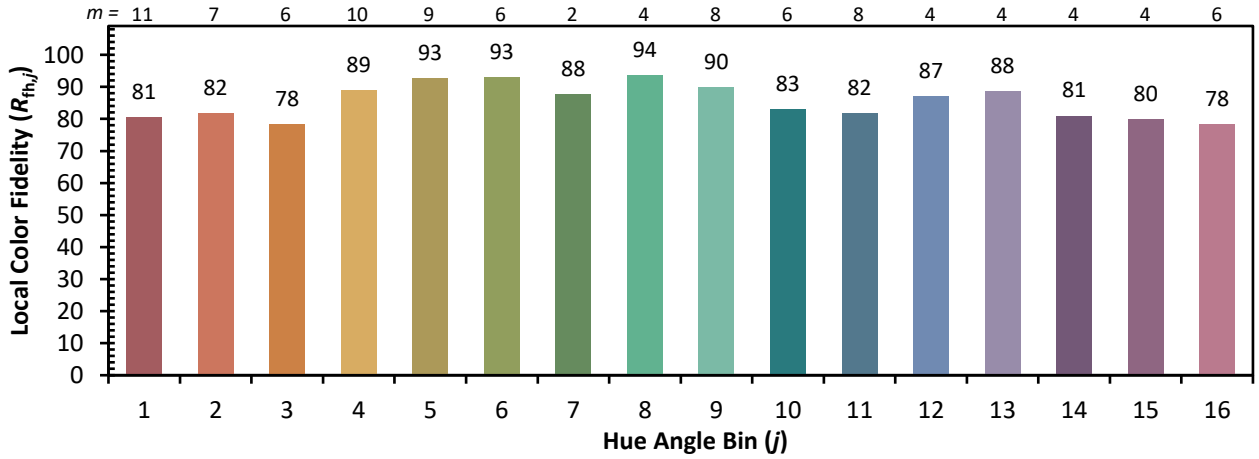
Color Rendition by Hue-Angle Bin







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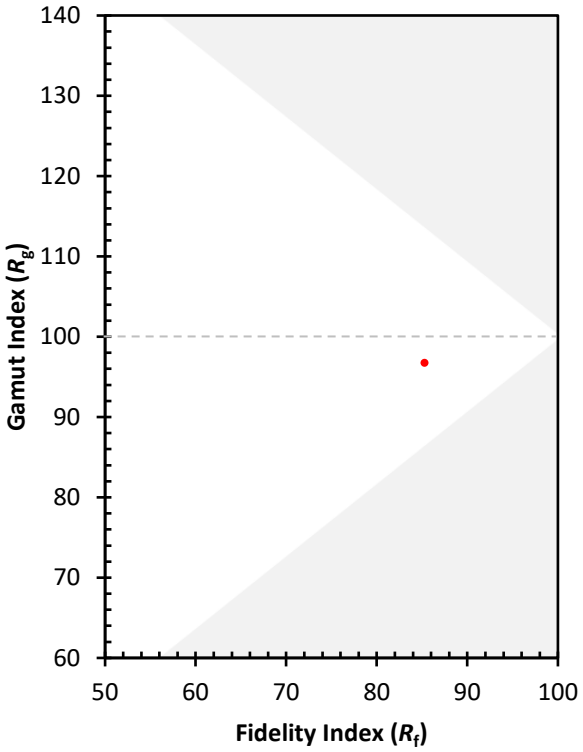
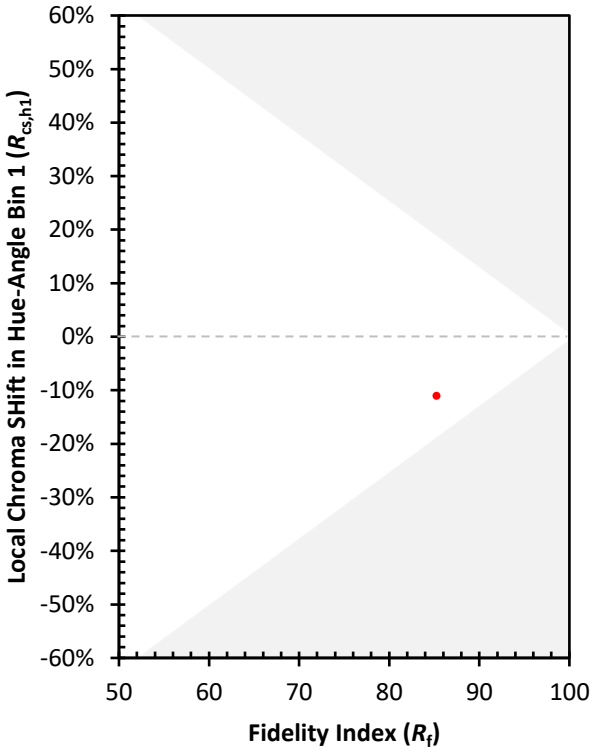
Measure Comparisons





(END OF REPORT)