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: P1449790

Luminaire Tested: **AXCS4ARL-GRF-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:	P1449790
	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:	AXCS4ARL-GRF-W
Description:	4A 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:	4743 lumens
Efficiency:	N/A
Efficacy:	126.1 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):	37.6
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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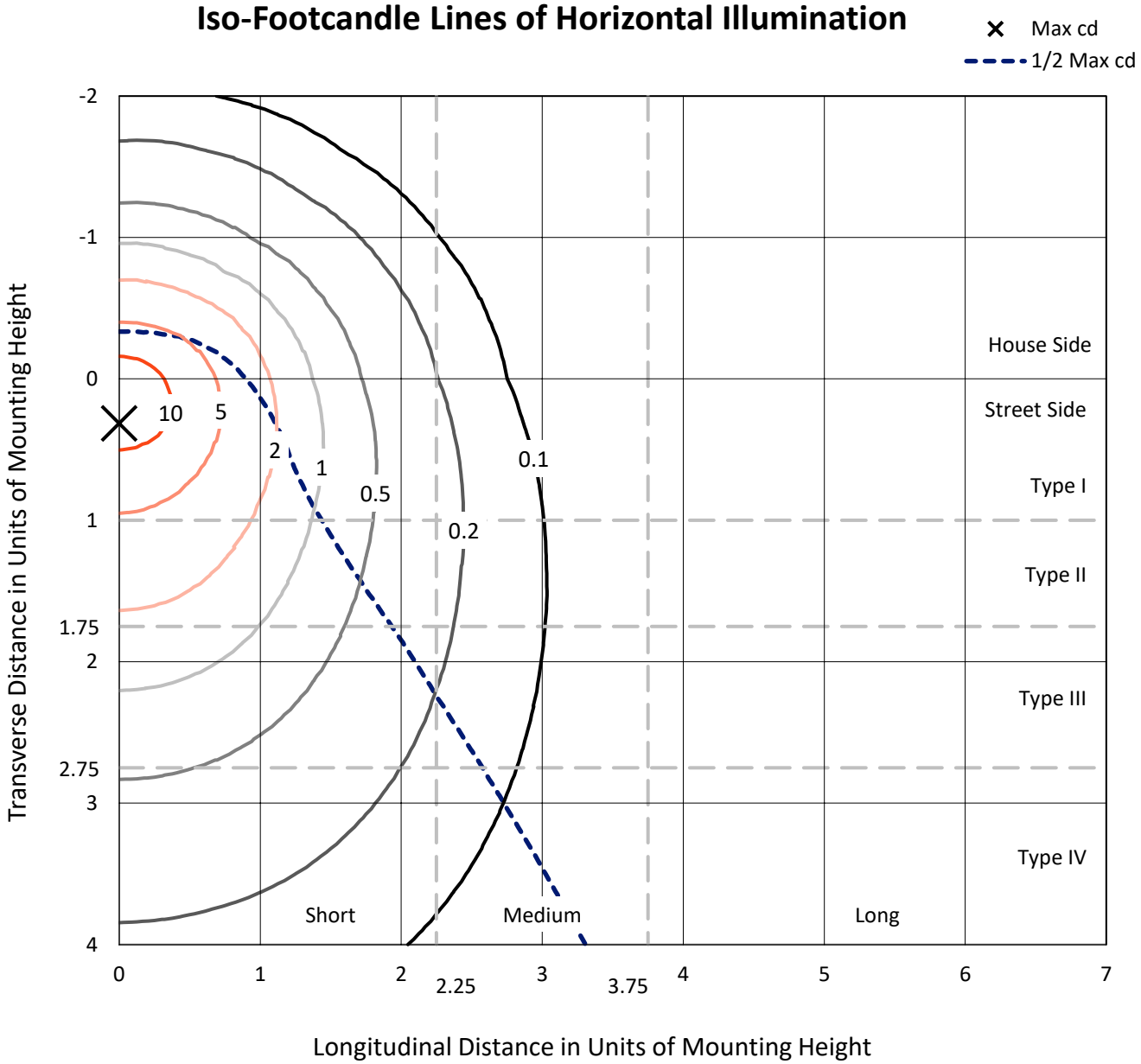
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Short - N/A

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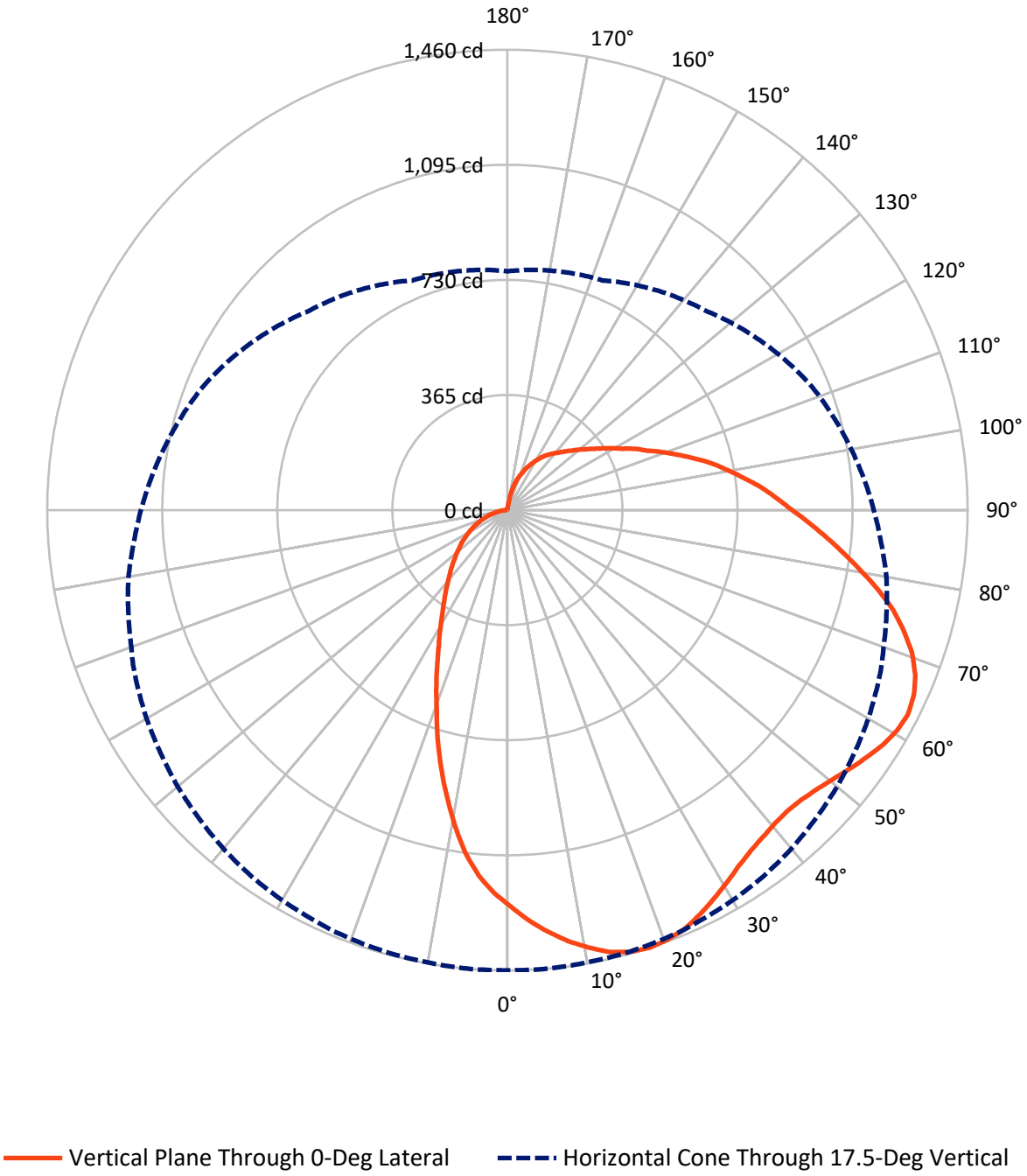
Luminous Intensity Polar Plot



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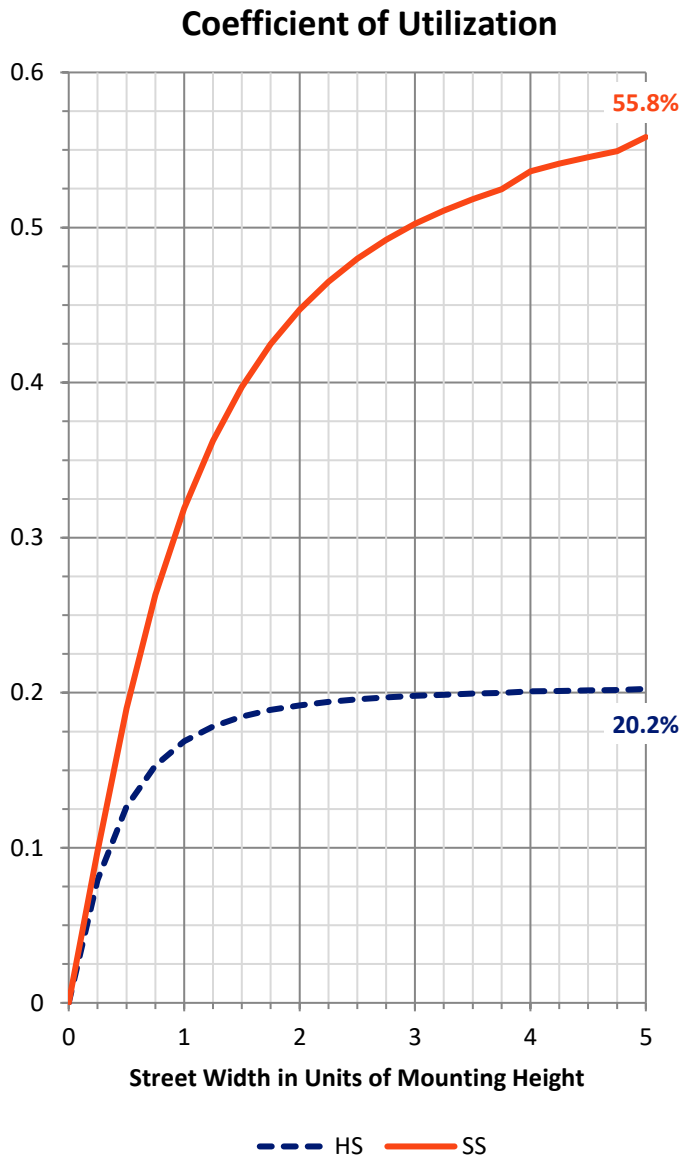
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.6	66.8	1043.4
	% Fixture	20.6	1.4	22.0
Street Side	Lumens	2871.1	828.4	3699.6
	% Fixture	60.5	17.5	78.0
Total	Lumens	3847.7	895.2	4743.0
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	2.5
10°-20°	329.4	6.9
20°-30°	470.7	9.9
30°-40°	536.0	11.3
40°-50°	551.4	11.6
50°-60°	546.1	11.5
60°-70°	516.7	10.9
70°-80°	440.3	9.3
80°-90°	338.6	7.1
90°-100°	267.8	5.6
100°-110°	210.5	4.4
110°-120°	154.6	3.3
120°-130°	109.7	2.3
130°-140°	75.2	1.6
140°-150°	46.8	1.0
150°-160°	23.5	0.5
160°-170°	6.9	0.1
170°-180°	0.4	0.0
0°-90°	3847.7	81.1
0°-180°	4743.0	100.0



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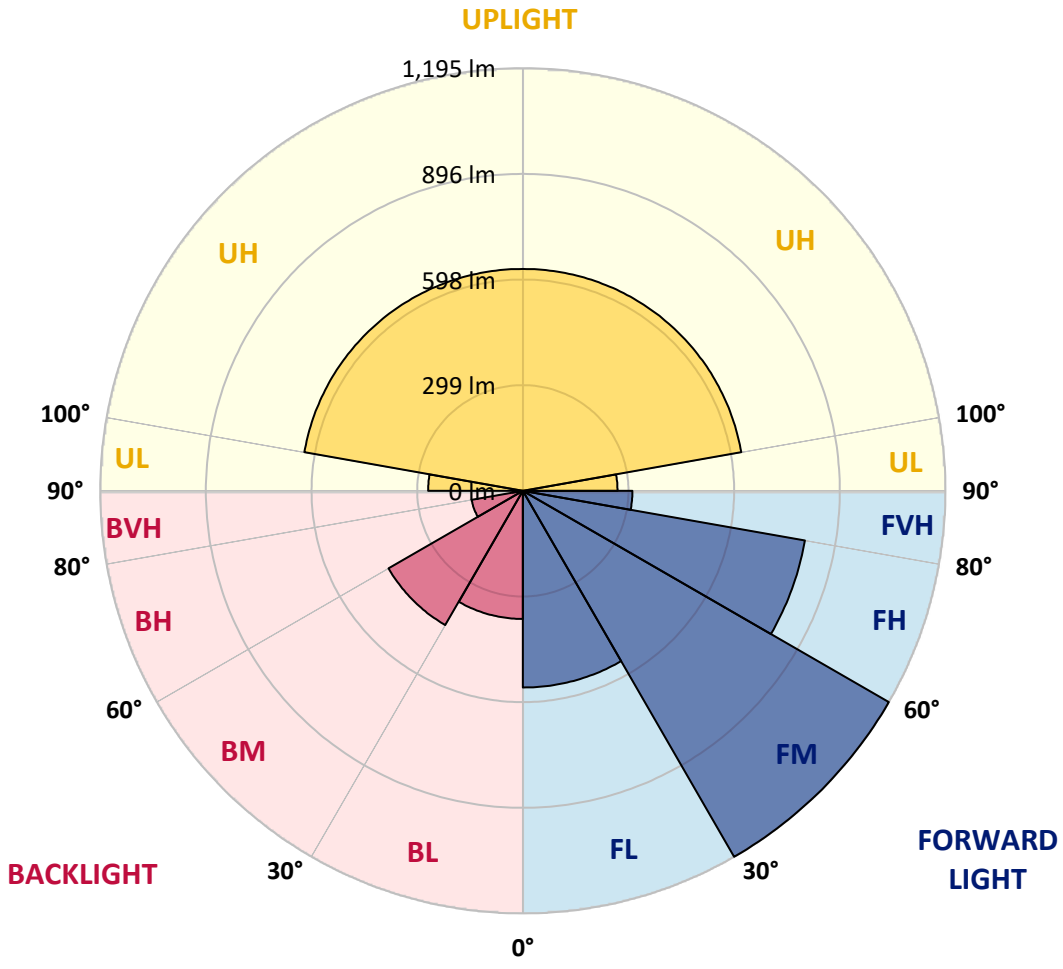
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	556.2	11.7			
FM	(30°-60°)	1195.1	25.2			
FH	(60°-80°)	810.1	17.1			G1/1800
FVH	(80°-90°)	309.8	6.5			G3/500
BL	(0°-30°)	362.3	7.6	B1/500		
BM	(30°-60°)	438.4	9.2	B1/1000		
BH	(60°-80°)	147.0	3.1	B1/500		G1/500
BVH	(80°-90°)	28.9	0.6			G1/100
UL	(90°-100°)	267.8	5.6		U3/500	
UH	(100°-180°)	627.4	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°	*1257.6*	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	*1303.6*	1303.6	1303.6	1300.5	1300.5	1300.5	1300.5	1300.5	1294.4	1294.4	1291.3
5°	*1343.5*	1343.5	1343.5	1340.4	1340.4	1337.3	1334.3	1331.2	1328.1	1322.0	1318.9
7.5°	*1380.3*	1377.2	1377.2	1374.2	1371.1	1371.1	1368.0	1361.9	1355.8	1346.6	1340.4
10°	*1411.0*	1411.0	1407.9	1404.8	1401.8	1398.7	1395.6	1386.4	1377.2	1368.0	1358.8
12.5°	*1438.6*	1435.5	1435.5	1429.4	1423.2	1420.2	1417.1	1411.0	1398.7	1386.4	1371.1
15°	*1453.9*	1453.9	1450.8	1444.7	1438.6	1435.5	1432.4	1423.2	1411.0	1395.6	1380.3
17.5°	*1460.0*	*1460.0*	*1457.0*	*1453.9*	*1447.8*	*1444.7*	*1438.6*	*1429.4*	*1417.1*	*1401.8*	*1383.4*
20°	*1453.9*	1453.9	1450.8	1447.8	1444.7	1438.6	1435.5	1426.3	1414.0	1398.7	1380.3
22.5°	*1441.6*	1441.6	1438.6	1435.5	1429.4	1426.3	1423.2	1414.0	1401.8	1386.4	1368.0
25°	*1420.2*	1417.1	1417.1	1414.0	1407.9	1404.8	1401.8	1392.6	1380.3	1368.0	1349.6
27.5°	*1395.6*	1392.6	1389.5	1386.4	1383.4	1377.2	1374.2	1368.0	1355.8	1340.4	1322.0
30°	*1371.1*	1368.0	1368.0	1361.9	1355.8	1352.7	1346.6	1337.3	1325.1	1306.7	1291.3
32.5°	*1346.6*	1346.6	1340.4	1337.3	1328.1	1322.0	1318.9	1303.6	1291.3	1272.9	1251.5
35°	*1328.1*	1328.1	1322.0	1315.9	1303.6	1297.5	1291.3	1272.9	1257.6	1236.1	1211.6
37.5°	*1315.9*	1312.8	1306.7	1294.4	1282.1	1276.0	1266.8	1245.3	1223.9	1199.3	1174.8
40°	*1306.7*	1303.6	1294.4	1285.2	1266.8	1257.6	1245.3	1220.8	1193.2	1162.5	1131.8
42.5°	*1303.6*	1300.5	1291.3	1276.0	1254.5	1242.3	1226.9	1196.3	1165.6	1128.8	1092.0
45°	*1309.7*	1303.6	1291.3	1272.9	1245.3	1230.0	1214.7	1177.8	1138.0	1098.1	1055.2
47.5°	*1322.0*	1315.9	1300.5	1279.1	1248.4	1226.9	1208.5	1165.6	1116.5	1070.5	1018.3
50°	*1340.4*	1331.2	1315.9	1288.3	1251.5	1230.0	1205.5	1153.3	1098.1	1042.9	987.7
52.5°	*1361.9*	1352.7	1334.3	1303.6	1260.7	1236.1	1208.5	1147.2	1085.8	1021.4	957.0
55°	*1383.4*	1377.2	1352.7	1318.9	1269.9	1242.3	1211.6	1144.1	1073.6	999.9	929.4
57.5°	*1404.8*	1395.6	1374.2	1334.3	1282.1	1251.5	1214.7	1141.0	1061.3	981.5	904.9
60°	*1420.2*	1411.0	1386.4	1343.5	1288.3	1251.5	1214.7	1134.9	1049.0	963.1	877.3
62.5°	*1426.3*	1414.0	1389.5	1346.6	1285.2	1251.5	1211.6	1125.7	1033.7	938.6	852.7
65°	*1417.1*	1407.9	1383.4	1340.4	1276.0	1239.2	1199.3	1110.4	1015.3	917.1	825.1
67.5°	*1395.6*	1386.4	1361.9	1318.9	1257.6	1217.7	1177.8	1085.8	987.7	889.5	794.4
70°	*1361.9*	1355.8	1328.1	1288.3	1223.9	1187.1	1147.2	1055.2	957.0	858.8	763.8
72.5°	*1315.9*	1309.7	1285.2	1242.3	1184.0	1147.2	1107.3	1018.3	923.3	825.1	727.0
75°	*1263.7*	1251.5	1226.9	1190.1	1134.9	1098.1	1061.3	975.4	883.4	785.2	693.2
77.5°	*1199.3*	1193.2	1168.6	1134.9	1076.6	1046.0	1009.1	926.3	837.4	745.4	656.4
80°	*1131.8*	1128.8	1110.4	1070.5	1021.4	990.7	953.9	877.3	791.4	702.4	616.5
82.5°	*1067.4*	1064.4	1046.0	1009.1	960.1	932.5	901.8	825.1	745.4	662.5	582.8
85°	*1006.1*	999.9	984.6	950.9	904.9	877.3	846.6	776.0	699.3	625.7	546.0
87.5°	*947.8*	941.7	923.3	892.6	852.7	822.0	794.4	730.0	659.5	588.9	518.4
90°	*892.6*	889.5	871.1	846.6	803.6	779.1	751.5	693.2	625.7	558.3	490.8
92.5°	*846.6*	843.5	828.2	797.5	760.7	739.2	711.6	659.5	598.1	533.7	475.4
95°	*800.6*	794.4	779.1	757.6	720.8	702.4	674.8	625.7	570.5	512.2	454.0
97.5°	*751.5*	748.4	736.2	711.6	680.9	662.5	641.1	592.0	542.9	490.8	438.6
100°	*705.5*	702.4	693.2	671.7	641.1	622.7	604.3	561.3	515.3	466.2	417.2
102.5°	*662.5*	656.4	647.2	625.7	601.2	582.8	567.5	527.6	484.6	438.6	398.8
105°	*613.5*	610.4	598.1	585.9	558.3	546.0	527.6	493.8	454.0	414.1	374.2
107.5°	*567.5*	564.4	555.2	542.9	521.4	506.1	490.8	460.1	426.4	389.5	352.7
110°	*524.5*	521.4	515.3	503.0	481.6	472.4	460.1	432.5	401.8	368.1	334.3

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REPORT NUMBER: P1449790
CATALOG NUMBER: AXCS4ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	*481.6*	481.6	475.4	466.2	447.8	435.6	426.4	401.8	374.2	346.6	315.9
115°	*450.9*	444.8	441.7	429.4	417.2	408.0	398.8	374.2	352.7	325.1	300.6
117.5°	*414.1*	414.1	408.0	398.8	386.5	377.3	371.1	349.7	328.2	306.7	282.2
120°	*386.5*	383.4	380.3	371.1	358.9	352.7	346.6	328.2	309.8	288.3	266.9
122.5°	*358.9*	355.8	352.7	346.6	337.4	331.3	325.1	309.8	291.4	273.0	254.6
125°	*334.3*	334.3	331.3	325.1	315.9	309.8	303.7	291.4	276.1	257.7	239.3
127.5°	*312.9*	312.9	309.8	303.7	297.5	291.4	285.3	276.1	260.7	245.4	230.0
130°	*294.5*	291.4	291.4	285.3	279.1	273.0	269.9	257.7	245.4	233.1	217.8
132.5°	*276.1*	276.1	273.0	266.9	263.8	257.7	254.6	245.4	233.1	220.8	205.5
135°	*260.7*	260.7	257.7	254.6	248.5	245.4	242.3	233.1	220.8	208.6	196.3
137.5°	*245.4*	245.4	242.3	239.3	236.2	233.1	227.0	220.8	208.6	196.3	184.0
140°	*233.1*	233.1	230.0	227.0	220.8	217.8	214.7	208.6	199.4	187.1	174.8
142.5°	*220.8*	220.8	217.8	214.7	208.6	205.5	202.4	196.3	187.1	174.8	162.6
145°	*208.6*	205.5	205.5	202.4	196.3	193.2	190.2	184.0	174.8	162.6	150.3
147.5°	*193.2*	193.2	190.2	187.1	181.0	177.9	174.8	168.7	159.5	150.3	138.0
150°	*177.9*	177.9	174.8	171.8	168.7	165.6	162.6	156.4	147.2	138.0	125.8
152.5°	*162.6*	162.6	159.5	156.4	153.4	150.3	147.2	141.1	131.9	125.8	116.6
155°	*147.2*	147.2	144.2	141.1	138.0	135.0	131.9	125.8	119.6	110.4	104.3
157.5°	*128.8*	128.8	128.8	125.8	122.7	119.6	116.6	110.4	104.3	98.2	92.0
160°	*113.5*	113.5	110.4	110.4	107.4	104.3	101.2	98.2	92.0	85.9	79.8
162.5°	*98.2*	95.1	95.1	92.0	92.0	89.0	85.9	82.8	76.7	73.6	58.3
165°	*79.8*	79.8	79.8	76.7	73.6	73.6	70.5	64.4	52.1	42.9	33.7
167.5°	*55.2*	55.2	52.1	46.0	42.9	39.9	36.8	30.7	27.6	24.5	24.5
170°	*21.5*	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.4	18.4
172.5°	*15.3*	15.3	15.3	12.3	12.3	12.3	12.3	12.3	12.3	9.2	9.2
175°	*3.1*	3.1	3.1	3.1	6.1	3.1	6.1	6.1	3.1	3.1	3.1
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°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1288.3	1282.1	1282.1	1276.0	1276.0	1272.9	1269.9	1263.7	1260.7	1257.6	1236.1
5°	1312.8	1306.7	1297.5	1291.3	1288.3	1282.1	1276.0	1266.8	1260.7	1251.5	1214.7
7.5°	1331.2	1322.0	1309.7	1300.5	1294.4	1288.3	1276.0	1266.8	1254.5	1242.3	1190.1
10°	1346.6	1334.3	1322.0	1306.7	1300.5	1291.3	1276.0	1260.7	1245.3	1226.9	1159.4
12.5°	1358.8	1343.5	1325.1	1306.7	1300.5	1291.3	1269.9	1251.5	1233.1	1211.6	1122.6
15°	1365.0	1346.6	1325.1	1303.6	1294.4	1282.1	1260.7	1236.1	1214.7	1190.1	1082.8
17.5°	*1365.0*	*1343.5*	*1322.0*	*1297.5*	*1285.2*	*1269.9*	*1245.3*	*1220.8*	*1190.1*	*1162.5*	*1039.8*
20°	1358.8	1334.3	1309.7	1282.1	1269.9	1254.5	1226.9	1196.3	1165.6	1131.8	990.7
22.5°	1346.6	1322.0	1294.4	1263.7	1248.4	1233.1	1202.4	1168.6	1134.9	1098.1	938.6
25°	1325.1	1300.5	1269.9	1242.3	1223.9	1205.5	1171.7	1134.9	1098.1	1058.2	883.4
27.5°	1300.5	1272.9	1245.3	1211.6	1193.2	1174.8	1134.9	1098.1	1058.2	1018.3	831.2
30°	1266.8	1239.2	1208.5	1174.8	1156.4	1138.0	1098.1	1058.2	1015.3	969.3	779.1
32.5°	1230.0	1202.4	1168.6	1134.9	1113.4	1095.0	1055.2	1012.2	969.3	923.3	720.8
35°	1190.1	1159.4	1125.7	1088.9	1070.5	1049.0	1006.1	963.1	920.2	874.2	668.7
37.5°	1144.1	1113.4	1079.7	1042.9	1021.4	1003.0	957.0	914.1	868.1	819.0	616.5
40°	1101.2	1067.4	1030.6	993.8	972.3	950.9	907.9	861.9	812.8	766.8	570.5
42.5°	1055.2	1018.3	981.5	941.7	920.2	895.7	852.7	806.7	760.7	711.6	521.4
45°	1012.2	972.3	929.4	889.5	868.1	846.6	797.5	754.6	705.5	659.5	478.5
47.5°	972.3	926.3	883.4	837.4	815.9	794.4	748.4	702.4	656.4	613.5	438.6
50°	932.5	883.4	834.3	788.3	766.8	745.4	696.3	653.3	604.3	561.3	401.8
52.5°	895.7	840.4	788.3	742.3	717.8	696.3	650.3	601.2	558.3	515.3	365.0
55°	861.9	800.6	745.4	693.2	671.7	650.3	601.2	555.2	512.2	469.3	334.3
57.5°	831.2	763.8	705.5	653.3	625.7	604.3	558.3	512.2	469.3	426.4	303.7
60°	800.6	730.0	665.6	610.4	585.9	561.3	515.3	472.4	429.4	389.5	276.1
62.5°	766.8	696.3	628.8	573.6	546.0	521.4	475.4	432.5	389.5	349.7	248.5
65°	736.2	662.5	595.1	536.8	509.2	484.6	438.6	395.7	352.7	315.9	223.9
67.5°	705.5	628.8	561.3	500.0	472.4	447.8	401.8	358.9	319.0	285.3	199.4
70°	674.8	595.1	524.5	469.3	441.7	414.1	368.1	325.1	285.3	251.5	177.9
72.5°	641.1	564.4	496.9	435.6	408.0	383.4	337.4	294.5	254.6	223.9	156.4
75°	607.3	530.6	463.2	404.9	377.3	352.7	303.7	263.8	223.9	193.2	138.0
77.5°	570.5	496.9	432.5	374.2	349.7	322.1	276.1	233.1	196.3	168.7	116.6
80°	539.8	466.2	404.9	346.6	322.1	297.5	248.5	208.6	171.8	147.2	101.2
82.5°	506.1	435.6	374.2	319.0	294.5	269.9	223.9	184.0	147.2	122.7	85.9
85°	475.4	411.0	349.7	297.5	273.0	248.5	205.5	162.6	128.8	107.4	73.6
87.5°	450.9	389.5	331.3	279.1	254.6	233.1	187.1	147.2	113.5	92.0	64.4
90°	429.4	371.1	315.9	266.9	245.4	220.8	177.9	138.0	104.3	85.9	55.2
92.5°	417.2	361.9	309.8	263.8	239.3	217.8	174.8	135.0	101.2	82.8	55.2
95°	401.8	349.7	300.6	254.6	233.1	211.6	168.7	131.9	101.2	82.8	55.2
97.5°	386.5	337.4	291.4	248.5	227.0	205.5	165.6	128.8	98.2	79.8	52.1
100°	371.1	325.1	279.1	239.3	217.8	199.4	159.5	125.8	95.1	76.7	52.1
102.5°	352.7	309.8	269.9	230.0	211.6	190.2	156.4	122.7	95.1	76.7	52.1
105°	334.3	294.5	257.7	220.8	202.4	184.0	150.3	116.6	92.0	73.6	49.1
107.5°	319.0	282.2	245.4	211.6	193.2	177.9	144.2	113.5	89.0	70.5	49.1
110°	300.6	266.9	236.2	202.4	187.1	171.8	141.1	110.4	85.9	67.5	49.1

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

Scaled Data Report

REPORT NUMBER: P1449790
CATALOG NUMBER: AXCS4ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
112.5°	285.3	254.6	223.9	196.3	177.9	162.6	135.0	107.4	82.8	64.4	46.0
115°	269.9	242.3	214.7	187.1	171.8	156.4	128.8	101.2	76.7	61.3	42.9
117.5°	257.7	230.0	205.5	177.9	162.6	150.3	122.7	98.2	73.6	58.3	42.9
120°	245.4	220.8	196.3	168.7	156.4	144.2	116.6	92.0	70.5	55.2	39.9
122.5°	233.1	208.6	187.1	162.6	150.3	138.0	113.5	89.0	67.5	52.1	36.8
125°	220.8	199.4	177.9	156.4	144.2	131.9	107.4	85.9	64.4	49.1	36.8
127.5°	211.6	190.2	168.7	147.2	135.0	125.8	101.2	79.8	61.3	46.0	33.7
130°	199.4	181.0	162.6	141.1	128.8	119.6	95.1	76.7	55.2	42.9	33.7
132.5°	190.2	171.8	153.4	131.9	122.7	110.4	92.0	70.5	52.1	39.9	30.7
135°	181.0	162.6	144.2	125.8	113.5	104.3	85.9	67.5	49.1	39.9	27.6
137.5°	168.7	153.4	135.0	116.6	107.4	98.2	79.8	61.3	46.0	36.8	27.6
140°	159.5	144.2	125.8	110.4	101.2	92.0	73.6	58.3	39.9	33.7	24.5
142.5°	147.2	131.9	116.6	101.2	95.1	85.9	67.5	52.1	36.8	30.7	21.5
145°	138.0	125.8	110.4	95.1	85.9	79.8	64.4	49.1	33.7	27.6	21.5
147.5°	125.8	113.5	101.2	85.9	79.8	70.5	58.3	42.9	27.6	24.5	18.4
150°	116.6	104.3	92.0	79.8	70.5	64.4	52.1	39.9	24.5	21.5	15.3
152.5°	104.3	95.1	82.8	70.5	61.3	55.2	46.0	33.7	21.5	18.4	15.3
155°	95.1	85.9	73.6	58.3	52.1	49.1	39.9	30.7	18.4	15.3	12.3
157.5°	82.8	73.6	58.3	49.1	46.0	42.9	33.7	24.5	15.3	12.3	9.2
160°	70.5	55.2	42.9	39.9	39.9	36.8	27.6	18.4	12.3	12.3	9.2
162.5°	46.0	36.8	36.8	33.7	30.7	27.6	21.5	15.3	9.2	9.2	6.1
165°	30.7	30.7	27.6	24.5	24.5	21.5	15.3	9.2	9.2	6.1	6.1
167.5°	24.5	21.5	21.5	18.4	15.3	12.3	9.2	6.1	6.1	6.1	3.1
170°	15.3	15.3	12.3	9.2	9.2	9.2	6.1	3.1	3.1	3.1	3.1
172.5°	9.2	9.2	6.1	6.1	6.1	3.1	3.1	3.1	3.1	3.1	0.0
175°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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: P1449790
CATALOG NUMBER: AXCS4ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	1257.6	1257.6	1257.6
2.5°	1220.8	1211.6	1214.7
5°	1184.0	1162.5	1162.5
7.5°	1141.0	1104.2	1095.0
10°	1085.8	1027.6	1012.2
12.5°	1027.6	953.9	926.3
15°	960.1	868.1	840.4
17.5°	*892.6*	*788.3*	*757.6*
20°	825.1	711.6	671.7
22.5°	757.6	638.0	601.2
25°	693.2	573.6	536.8
27.5°	631.9	515.3	478.5
30°	573.6	466.2	432.5
32.5°	524.5	423.3	389.5
35°	475.4	380.3	355.8
37.5°	432.5	349.7	325.1
40°	398.8	322.1	297.5
42.5°	361.9	294.5	273.0
45°	331.3	269.9	251.5
47.5°	303.7	248.5	230.0
50°	279.1	230.0	211.6
52.5°	257.7	211.6	193.2
55°	233.1	193.2	177.9
57.5°	214.7	174.8	159.5
60°	196.3	159.5	144.2
62.5°	174.8	144.2	128.8
65°	159.5	128.8	113.5
67.5°	141.1	113.5	98.2
70°	125.8	98.2	82.8
72.5°	110.4	82.8	70.5
75°	95.1	70.5	58.3
77.5°	79.8	58.3	42.9
80°	67.5	46.0	33.7
82.5°	55.2	36.8	24.5
85°	46.0	27.6	15.3
87.5°	36.8	18.4	6.1
90°	27.6	6.1	0.0
92.5°	27.6	6.1	0.0
95°	27.6	6.1	0.0
97.5°	27.6	6.1	0.0
100°	27.6	6.1	0.0
102.5°	24.5	6.1	0.0
105°	24.5	6.1	0.0
107.5°	24.5	6.1	0.0
110°	24.5	6.1	0.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449790
CATALOG NUMBER: AXCS4ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	24.5	6.1	0.0
115°	21.5	6.1	0.0
117.5°	21.5	6.1	0.0
120°	21.5	3.1	0.0
122.5°	18.4	3.1	0.0
125°	18.4	3.1	0.0
127.5°	18.4	3.1	0.0
130°	15.3	3.1	0.0
132.5°	15.3	3.1	0.0
135°	15.3	3.1	0.0
137.5°	12.3	3.1	0.0
140°	12.3	0.0	0.0
142.5°	9.2	0.0	0.0
145°	9.2	0.0	0.0
147.5°	9.2	0.0	0.0
150°	6.1	0.0	0.0
152.5°	6.1	0.0	0.0
155°	6.1	0.0	0.0
157.5°	3.1	0.0	0.0
160°	3.1	0.0	0.0
162.5°	3.1	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

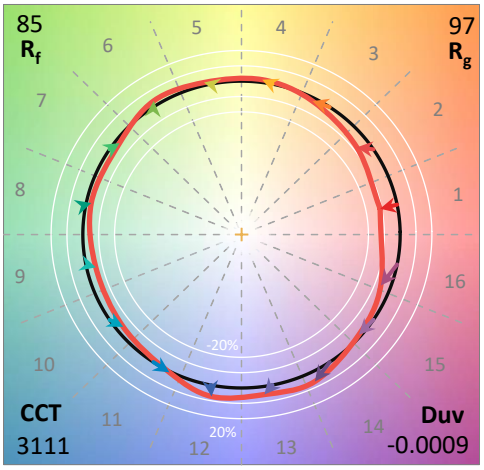
Test Information

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

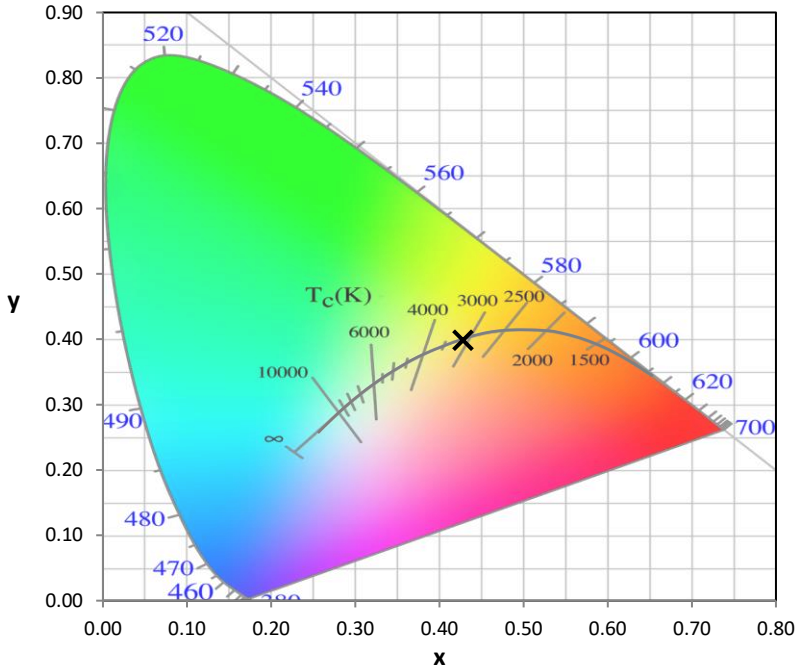
Stabilization Time:	52M
Operation Time:	1H 52M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2512-637-1

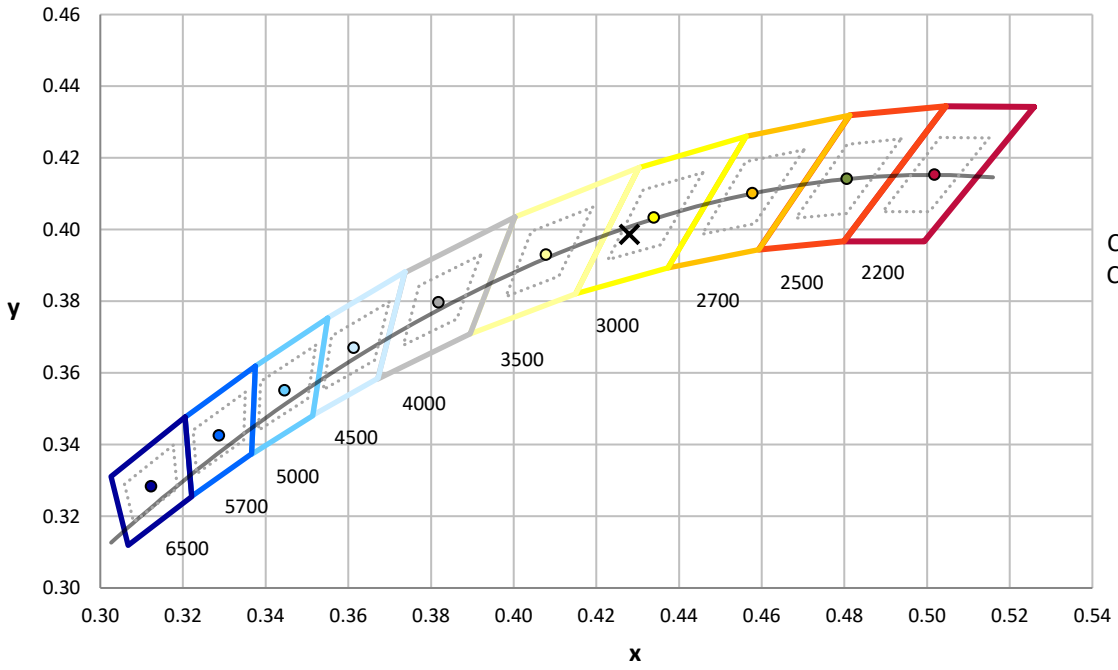
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

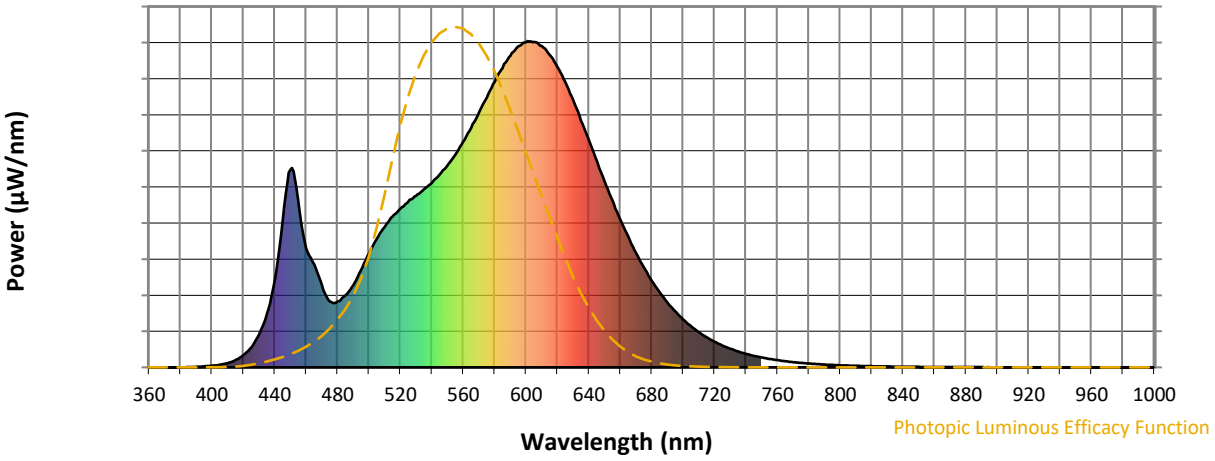


CCT = 3111K
CIE x = 0.4280
CIE y = 0.3986
Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

Photopic Flux vs. Wavelength

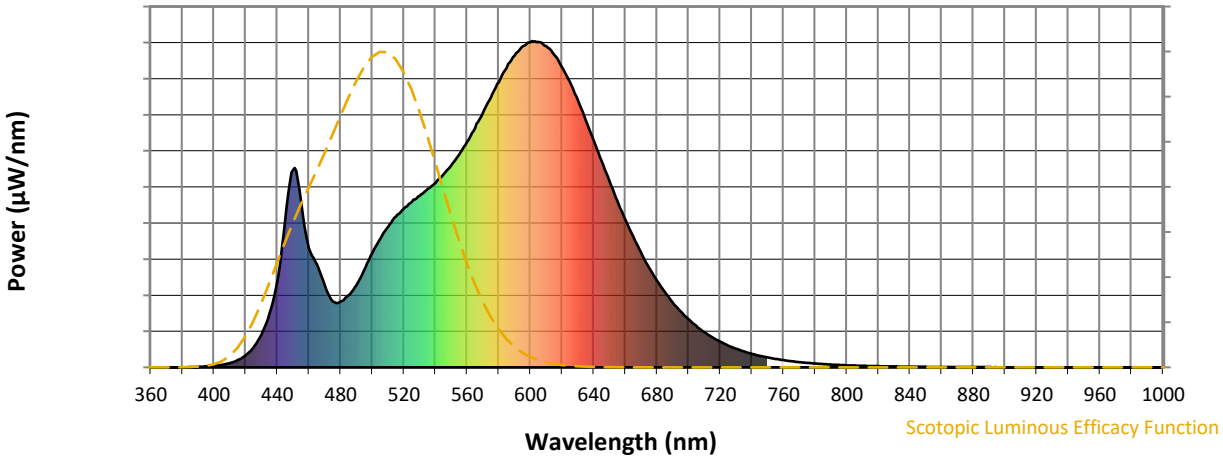


Photopic Lumens: NR

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

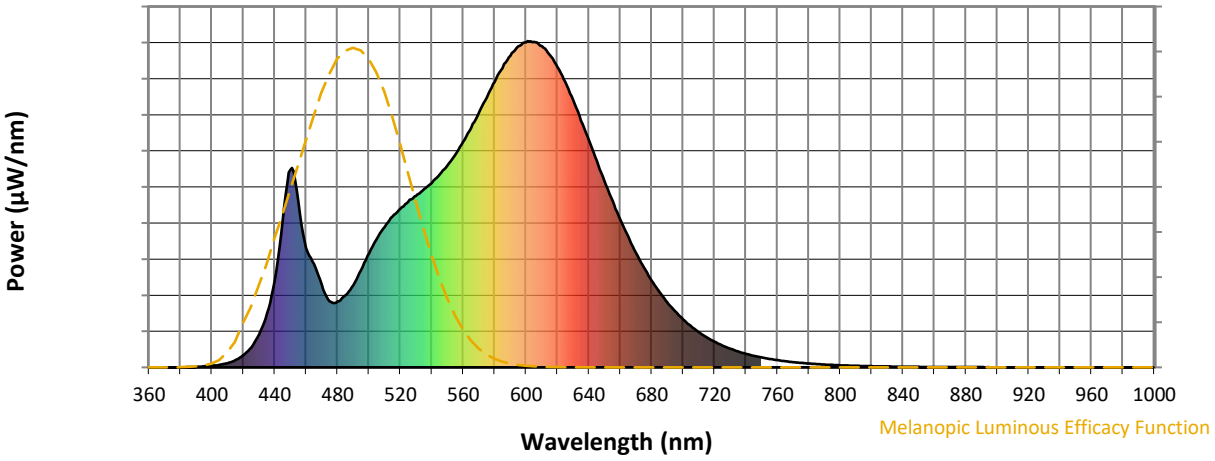


Scotopic Lumens: NR **S/P: 1.4**

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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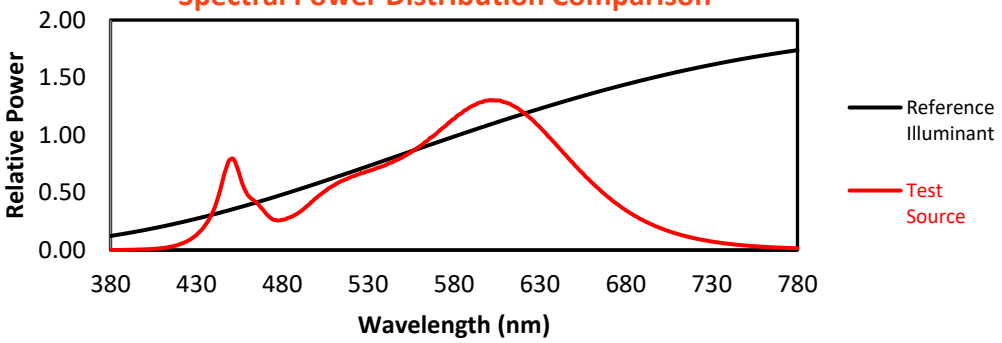
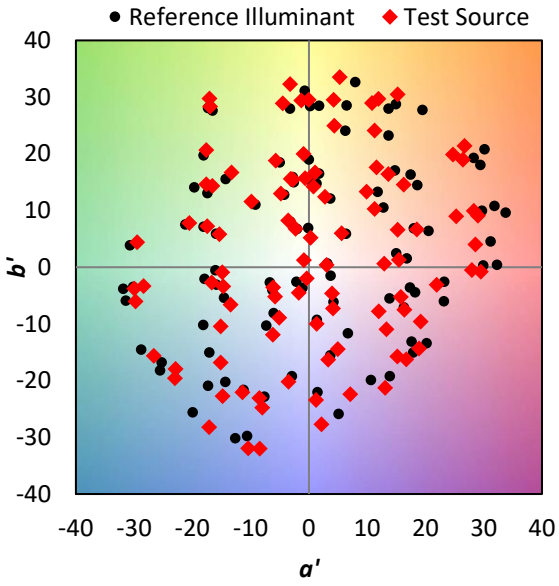
Summary

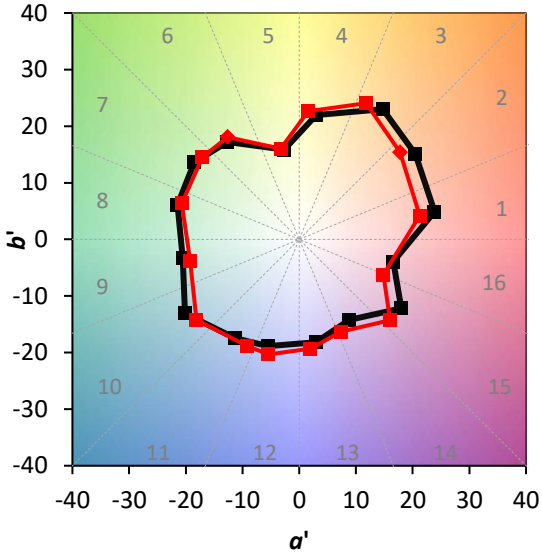
R_f = 85.3
R_g = 96.7
CIE R_a = 83.4
R_9 = 8.9

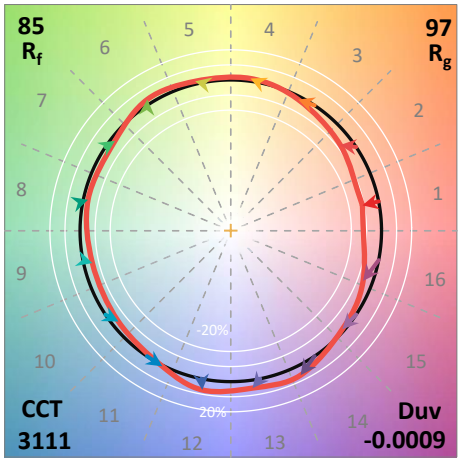
Spectral Power Distribution Comparison

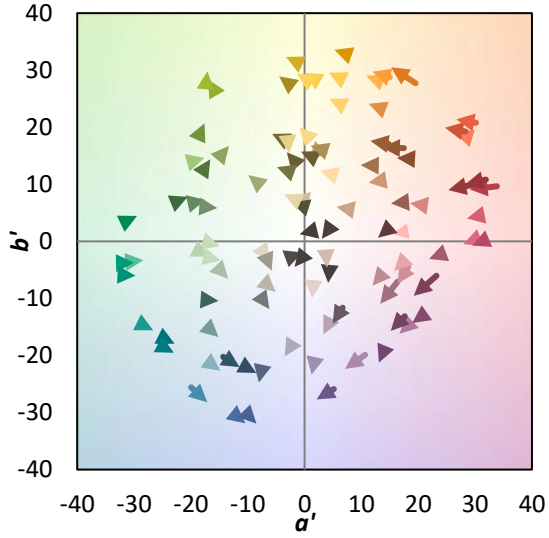


Color Vector Graphics









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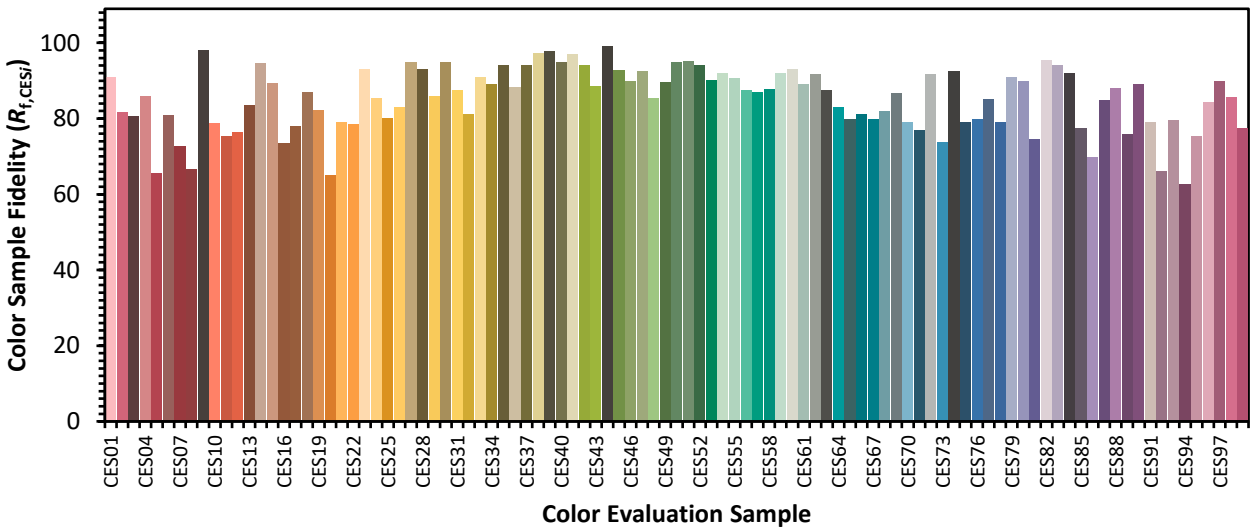
Individual Sample Fidelity Index ($R_{f,i}$)

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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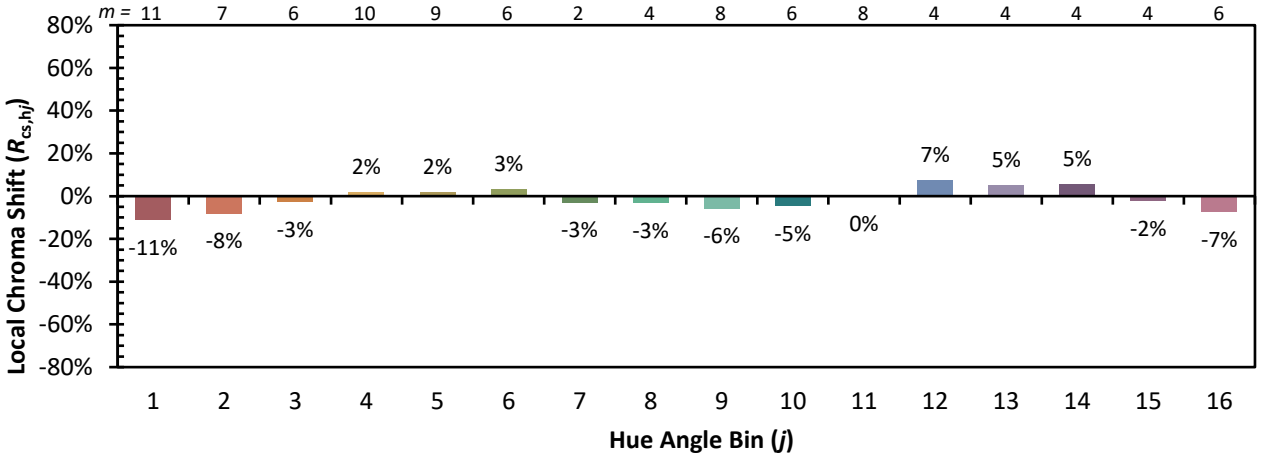
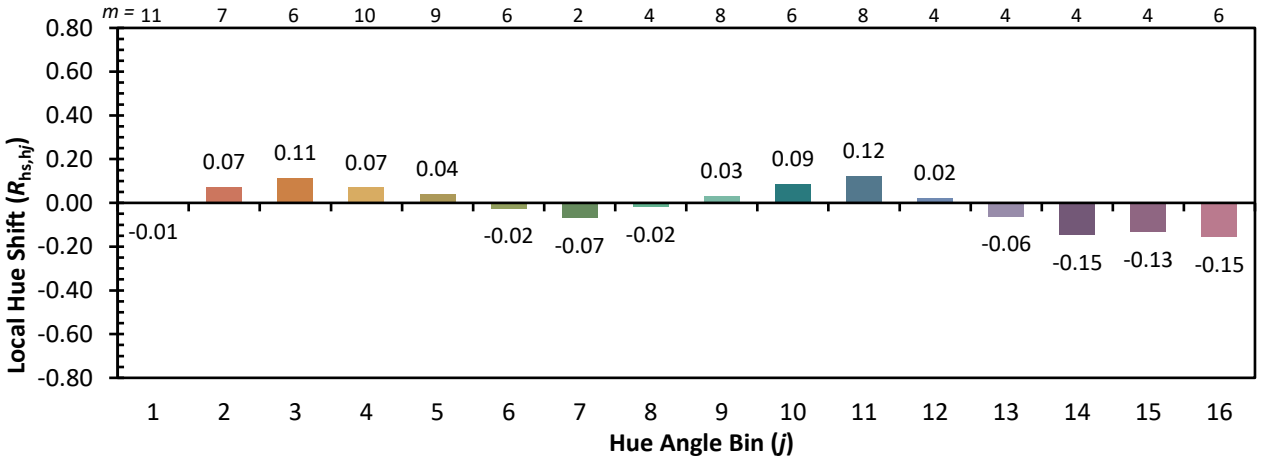
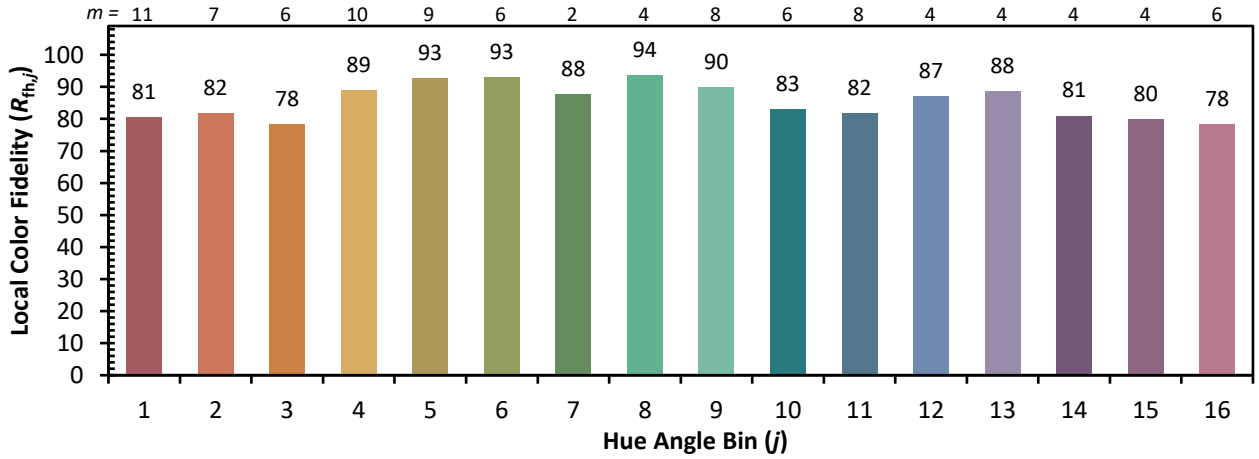
Color Rendition by Hue-Angle Bin







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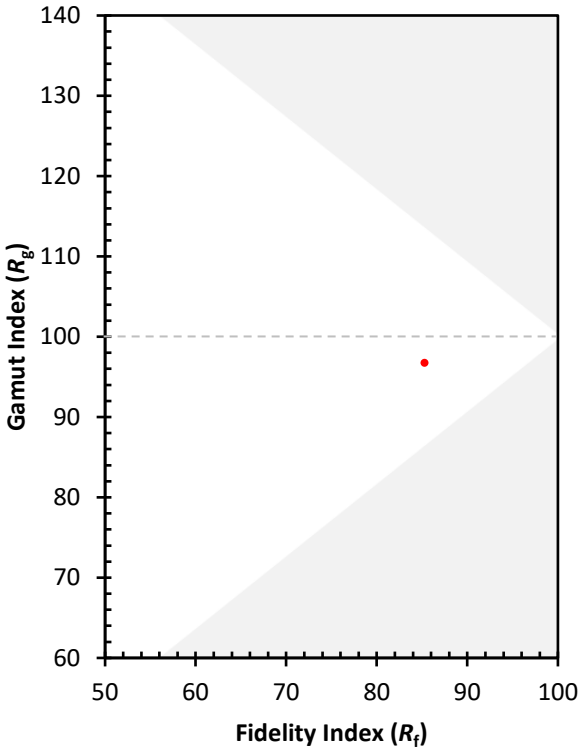
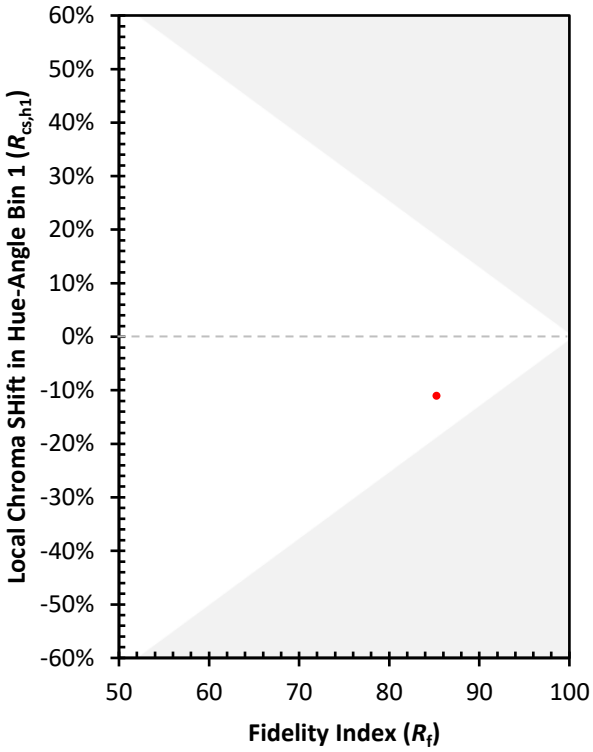
Measure Comparisons





(END OF REPORT)