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: P1449792

Luminaire Tested: **AXCS4ARL-W**

Issue Date: 5/12/2026

Report Generated By 670246072

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449792
	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:	AXCS4ARL-W
Description:	4A AXCENT LED REFRACTIVE LENS WALLPACK WITH 3000K 80CRI LEDS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4928 lumens
Efficiency:	N/A
Efficacy:	131.1 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 - U3 - 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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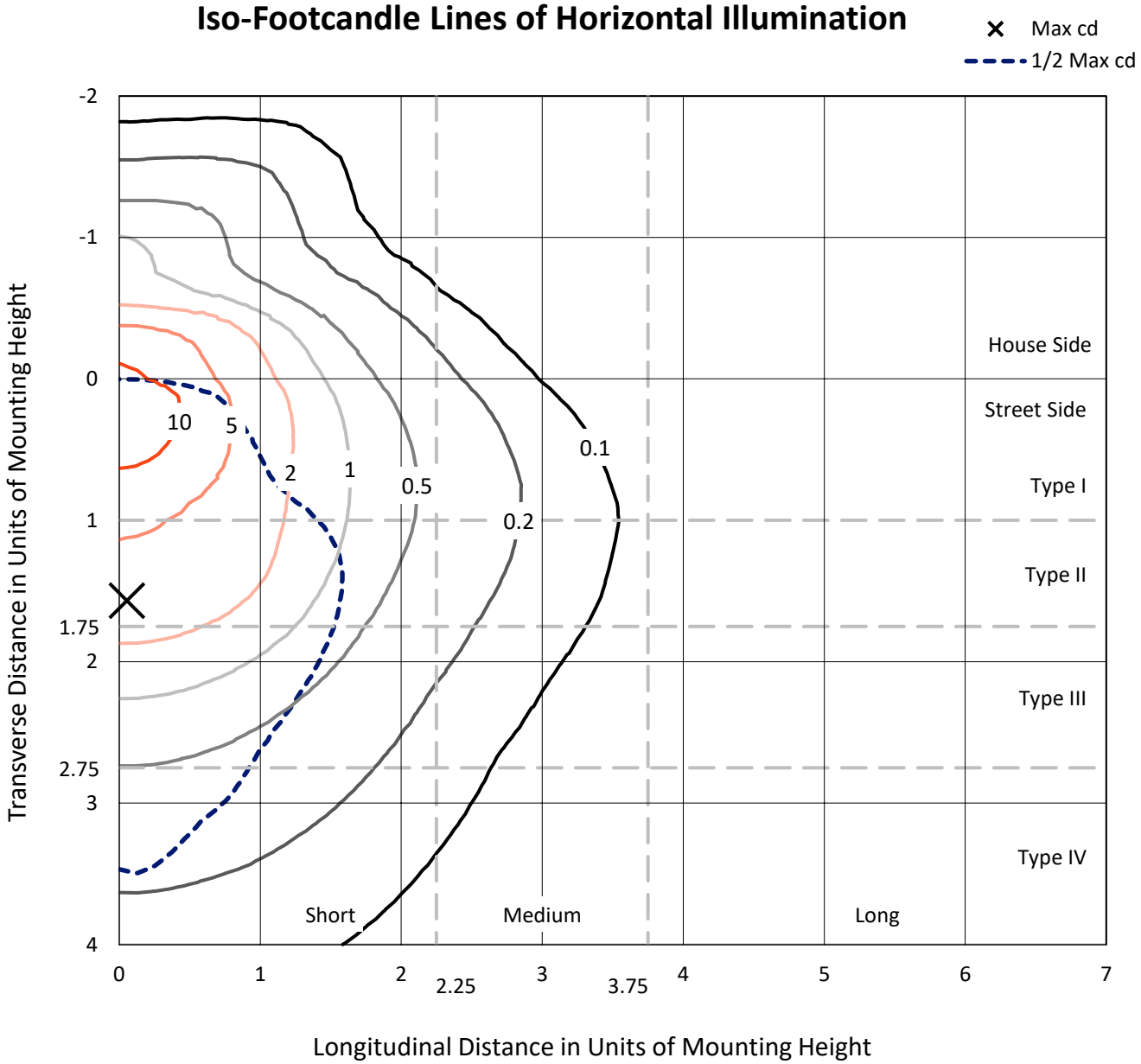
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
Type IV - Short - N/A

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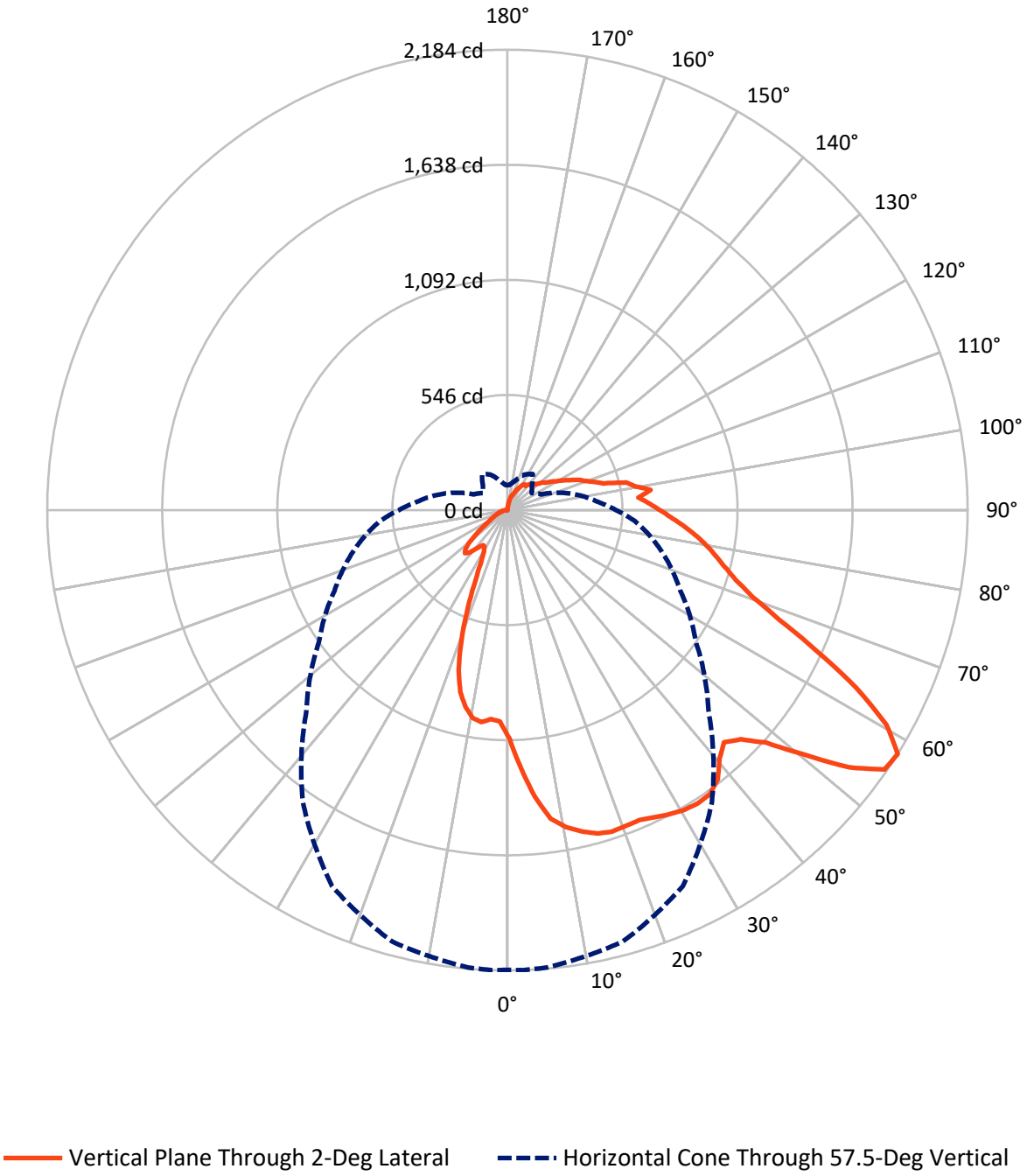
Luminous Intensity Polar Plot



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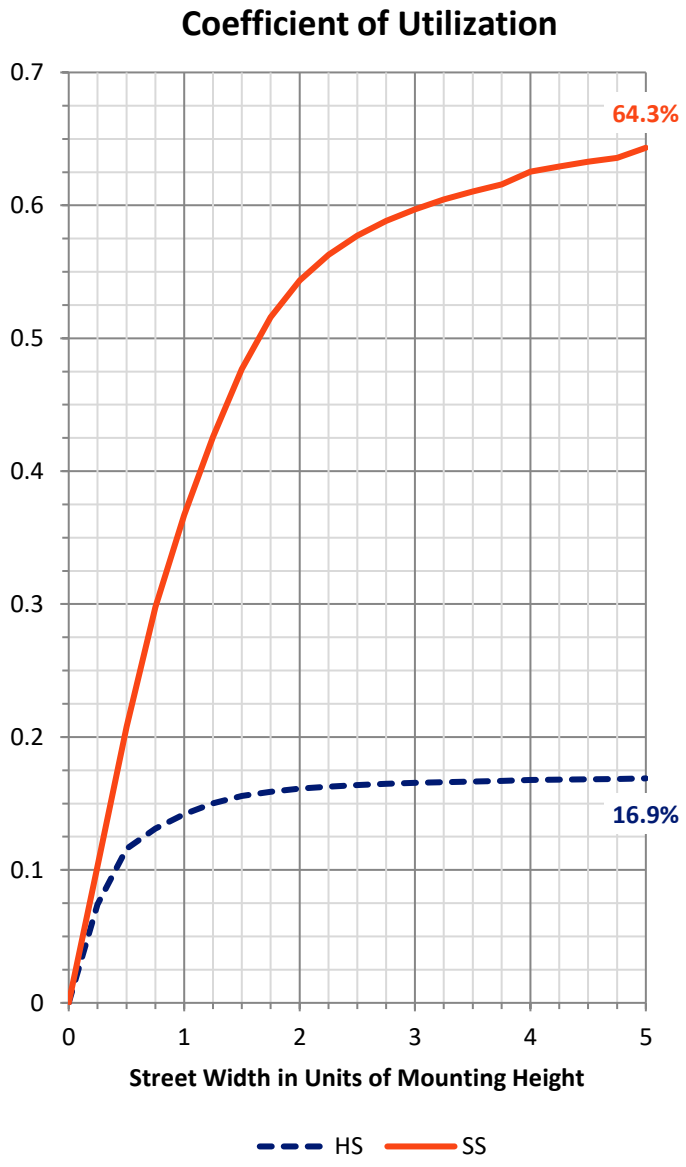
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	849.4	63.2	912.6
	% Fixture	17.2	1.3	18.5
Street Side	Lumens	3357.8	657.5	4015.4
	% Fixture	68.1	13.3	81.5
Total	Lumens	4207.3	720.7	4928.0
	% Fixture	85.4	14.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	2.2
10°-20°	336.3	6.8
20°-30°	489.0	9.9
30°-40°	578.0	11.7
40°-50°	629.2	12.8
50°-60°	719.6	14.6
60°-70°	624.6	12.7
70°-80°	419.2	8.5
80°-90°	301.0	6.1
90°-100°	232.3	4.7
100°-110°	173.4	3.5
110°-120°	119.2	2.4
120°-130°	80.7	1.6
130°-140°	55.0	1.1
140°-150°	35.5	0.7
150°-160°	18.0	0.4
160°-170°	6.1	0.1
170°-180°	0.5	0.0
0°-90°	4207.3	85.4
0°-180°	4928.0	100.0



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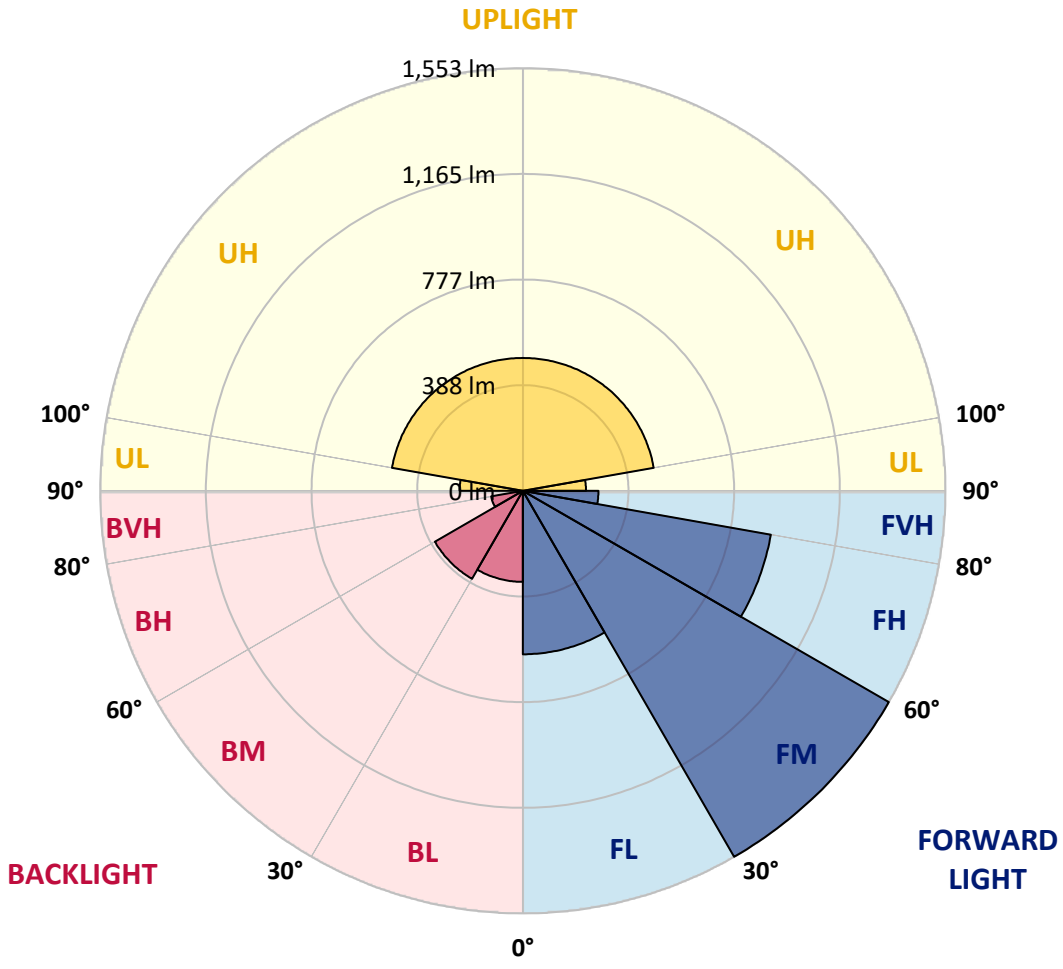
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	600.9	12.2			
FM	(30°-60°)	1553.3	31.5			
FH	(60°-80°)	925.7	18.8			G1/1800
FVH	(80°-90°)	277.9	5.6			G3/500
BL	(0°-30°)	334.7	6.8	B1/500		
BM	(30°-60°)	373.5	7.6	B1/1000		
BH	(60°-80°)	118.1	2.4	B1/500		G1/500
BVH	(80°-90°)	23.2	0.5			G1/100
UL	(90°-100°)	232.3	4.7		U3/500	
UH	(100°-180°)	488.4	9.9		U3/500	

BUG Rating: B1-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1083.9	*1083.9*	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1229.8	*1225.7*	1223.7	1221.7	1211.5	1199.4	1181.1	1160.9	1138.6	1112.3	1085.9
5°	1369.6	*1367.5*	1365.5	1357.4	1341.2	1318.9	1280.4	1248.0	1201.4	1148.7	1100.1
7.5°	1481.0	*1479.0*	1476.9	1468.8	1450.6	1416.2	1371.6	1323.0	1258.1	1185.2	1110.2
10°	1529.6	*1529.6*	1529.6	1523.5	1509.4	1485.0	1442.5	1381.7	1304.7	1213.6	1112.3
12.5°	1564.1	*1564.1*	1562.0	1555.9	1541.8	1517.5	1487.1	1434.4	1347.3	1237.9	1116.3
15°	1590.4	*1592.4*	1592.4	1584.3	1570.1	1543.8	1513.4	1466.8	1385.8	1262.2	1122.4
17.5°	1602.5	*1604.6*	1602.5	1596.5	1582.3	1555.9	1523.5	1481.0	1406.0	1278.4	1120.4
20°	1600.5	*1600.5*	1598.5	1592.4	1580.3	1555.9	1523.5	1476.9	1408.1	1282.4	1112.3
22.5°	1598.5	*1598.5*	1598.5	1588.4	1570.1	1545.8	1515.4	1468.8	1402.0	1282.4	1100.1
25°	1614.7	*1614.7*	1612.7	1598.5	1574.2	1539.7	1503.3	1456.7	1389.8	1278.4	1087.9
27.5°	1632.9	*1635.0*	1630.9	1616.7	1584.3	1537.7	1491.1	1440.5	1373.6	1266.2	1075.8
30°	1651.2	*1651.2*	1649.1	1630.9	1592.4	1539.7	1476.9	1416.2	1347.3	1248.0	1055.5
32.5°	1659.3	*1659.3*	1657.2	1641.0	1600.5	1537.7	1464.8	1387.8	1316.9	1219.6	1027.2
35°	1653.2	*1655.2*	1655.2	1641.0	1608.6	1543.8	1456.7	1363.5	1282.4	1185.2	994.8
37.5°	1620.8	*1620.8*	1620.8	1616.7	1598.5	1547.8	1450.6	1339.2	1243.9	1142.6	956.3
40°	1545.8	*1549.9*	1549.9	1549.9	1551.9	1531.6	1450.6	1316.9	1199.4	1096.1	913.7
42.5°	1507.3	*1507.3*	1507.3	1491.1	1479.0	1474.9	1428.3	1298.6	1152.8	1043.4	867.1
45°	1551.9	*1551.9*	1549.9	1519.5	1452.6	1406.0	1373.6	1266.2	1108.2	988.7	820.5
47.5°	1653.2	*1647.1*	1645.1	1592.4	1507.3	1389.8	1308.8	1213.6	1061.6	940.1	780.0
50°	1827.4	*1821.4*	1815.3	1740.3	1598.5	1440.5	1278.4	1154.8	1008.9	891.4	731.4
52.5°	2034.1	*2028.0*	2013.8	1930.8	1746.4	1517.5	1290.5	1110.2	962.3	838.8	684.8
55°	2171.8	*2171.8*	2161.7	2084.7	1894.3	1616.7	1323.0	1094.0	929.9	792.2	646.3
57.5°	*2182.0*	*2184.0*	*2177.9*	*2119.2*	*1969.2*	*1691.7*	*1349.3*	*1092.0*	*905.6*	*757.7*	*607.8*
60°	2062.4	*2066.5*	2068.5	2011.8	1904.4	1679.5	1341.2	1075.8	887.4	727.3	569.3
62.5°	1851.7	*1857.8*	1859.8	1803.1	1714.0	1549.9	1268.3	1037.3	867.1	703.0	536.9
65°	1606.6	*1612.7*	1612.7	1551.9	1464.8	1339.2	1132.5	964.4	832.7	682.8	502.4
67.5°	1387.8	*1391.8*	1391.8	1327.0	1233.8	1114.3	968.4	859.0	784.1	662.5	474.1
70°	1229.8	*1233.8*	1229.8	1171.0	1059.6	934.0	810.4	749.6	721.2	628.1	439.6
72.5°	1128.5	*1132.5*	1124.4	1061.6	944.1	810.4	686.8	648.3	646.3	587.5	407.2
75°	1057.6	*1061.6*	1053.5	986.6	867.1	729.4	601.7	567.3	585.5	549.0	374.8
77.5°	998.8	*1002.9*	994.8	927.9	806.3	672.6	545.0	510.5	538.9	500.4	332.3
80°	942.1	*946.1*	938.0	871.2	755.7	632.1	500.4	459.9	476.1	433.6	279.6
82.5°	883.3	*885.4*	877.2	816.5	713.1	597.7	470.0	427.5	441.7	389.0	222.9
85°	818.5	*822.5*	816.5	759.7	668.6	567.3	441.7	405.2	411.3	338.3	168.2
87.5°	759.7	*763.8*	757.7	707.1	628.1	534.9	419.4	380.9	380.9	299.8	127.6
90°	711.1	*713.1*	707.1	664.5	591.6	508.5	399.1	358.6	350.5	265.4	101.3
92.5°	668.6	*666.5*	660.5	626.0	559.2	484.2	382.9	342.4	320.1	233.0	89.1
95°	622.0	*624.0*	619.9	587.5	530.8	457.9	368.7	324.2	287.7	196.5	79.0
97.5°	686.8	*686.8*	684.8	648.3	577.4	484.2	378.9	314.0	259.3	170.2	75.0
100°	624.0	*615.9*	615.9	587.5	534.9	459.9	362.6	291.7	233.0	149.9	72.9
102.5°	575.4	*579.4*	577.4	547.0	494.3	421.4	324.2	255.3	200.6	133.7	75.0
105°	480.2	*472.1*	466.0	445.7	409.2	360.6	287.7	231.0	180.3	125.6	77.0
107.5°	435.6	*431.5*	429.5	413.3	382.9	336.3	271.5	220.8	172.2	119.5	79.0
110°	395.1	*393.0*	391.0	376.8	350.5	305.9	253.2	210.7	164.1	113.5	79.0

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CANDELA DISTRIBUTION (continued):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	366.7	*366.7*	362.6	350.5	322.1	279.6	235.0	200.6	151.9	109.4	79.0
115°	332.3	*330.2*	328.2	318.1	293.8	259.3	218.8	184.4	139.8	107.4	79.0
117.5°	299.8	*299.8*	299.8	287.7	265.4	235.0	206.6	172.2	131.7	103.3	77.0
120°	269.5	*269.5*	269.5	259.3	241.1	216.8	190.4	160.1	123.6	101.3	72.9
122.5°	249.2	*247.2*	247.2	237.0	220.8	198.5	176.3	149.9	119.5	97.2	68.9
125°	224.9	*222.9*	222.9	214.8	202.6	184.4	170.2	143.8	117.5	95.2	64.8
127.5°	214.8	*212.7*	212.7	204.6	192.5	176.3	162.1	135.7	113.5	89.1	60.8
130°	192.5	*192.5*	192.5	186.4	176.3	168.2	149.9	129.7	107.4	85.1	56.7
132.5°	178.3	*178.3*	176.3	174.2	170.2	162.1	141.8	125.6	103.3	79.0	52.7
135°	168.2	*168.2*	168.2	172.2	166.1	151.9	135.7	119.5	97.2	72.9	48.6
137.5°	168.2	*166.1*	166.1	164.1	156.0	143.8	133.7	113.5	91.2	68.9	44.6
140°	156.0	*156.0*	154.0	149.9	143.8	141.8	127.6	107.4	85.1	64.8	38.5
142.5°	141.8	*141.8*	141.8	141.8	145.9	135.7	119.5	101.3	79.0	58.8	36.5
145°	147.9	*147.9*	147.9	143.8	139.8	129.7	111.4	93.2	75.0	54.7	32.4
147.5°	141.8	*141.8*	141.8	137.8	129.7	117.5	101.3	85.1	68.9	50.6	28.4
150°	131.7	*129.7*	129.7	125.6	117.5	105.4	93.2	79.0	64.8	44.6	24.3
152.5°	115.5	*115.5*	115.5	111.4	105.4	97.2	83.1	72.9	56.7	40.5	22.3
155°	105.4	*105.4*	103.3	101.3	93.2	83.1	75.0	64.8	50.6	34.4	18.2
157.5°	89.1	*89.1*	89.1	85.1	81.0	75.0	68.9	56.7	42.5	30.4	14.2
160°	79.0	*79.0*	79.0	77.0	75.0	68.9	60.8	48.6	38.5	26.3	12.2
162.5°	70.9	*70.9*	70.9	68.9	64.8	58.8	50.6	40.5	30.4	20.3	10.1
165°	60.8	*60.8*	58.8	56.7	52.7	48.6	40.5	32.4	24.3	16.2	8.1
167.5°	46.6	*46.6*	46.6	44.6	42.5	38.5	32.4	26.3	18.2	10.1	6.1
170°	34.4	*34.4*	34.4	32.4	30.4	26.3	20.3	16.2	10.1	6.1	4.1
172.5°	22.3	*18.2*	16.2	14.2	14.2	12.2	10.1	8.1	4.1	4.1	4.1
175°	0.0	*0.0*	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	0.0	*0.0*	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	*2.0*	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1075.8	1065.7	1051.5	1035.3	1023.1	1013.0	1008.9	1006.9	1004.9	1004.9	1002.9
5°	1075.8	1059.6	1031.2	1011.0	998.8	992.7	992.7	992.7	994.8	994.8	994.8
7.5°	1075.8	1047.4	1015.0	994.8	986.6	990.7	998.8	1004.9	1011.0	1013.0	1015.0
10°	1065.7	1029.2	994.8	980.6	982.6	994.8	1006.9	1006.9	1004.9	1000.8	998.8
12.5°	1057.6	1015.0	978.5	972.5	986.6	994.8	984.6	974.5	964.4	956.3	954.2
15°	1051.5	1000.8	964.4	970.4	984.6	970.4	948.2	925.9	905.6	893.5	889.4
17.5°	1037.3	982.6	950.2	962.3	956.3	927.9	889.4	850.9	818.5	794.2	788.1
20°	1019.1	960.3	929.9	946.1	917.8	873.2	808.4	747.6	694.9	658.4	648.3
22.5°	998.8	936.0	909.7	915.7	871.2	802.3	705.0	615.9	540.9	498.4	502.4
25°	980.6	913.7	889.4	877.2	814.4	717.2	581.5	470.0	397.1	358.6	360.6
27.5°	960.3	889.4	867.1	840.8	753.7	613.9	449.8	350.5	295.8	269.5	271.5
30°	936.0	863.1	836.7	788.1	672.6	500.4	346.4	271.5	239.1	226.9	224.9
32.5°	907.6	830.6	802.3	733.4	587.5	395.1	275.5	228.9	210.7	206.6	204.6
35°	875.2	798.2	761.8	674.6	496.4	314.0	233.0	208.7	202.6	202.6	202.6
37.5°	836.7	759.7	717.2	609.8	407.2	257.3	208.7	200.6	206.6	214.8	216.8
40°	796.2	721.2	670.6	538.9	334.3	220.8	196.5	204.6	224.9	241.1	243.1
42.5°	757.7	684.8	622.0	468.0	277.6	198.5	192.5	216.8	249.2	269.5	273.5
45°	715.2	648.3	571.3	397.1	233.0	184.4	194.5	235.0	271.5	285.7	287.7
47.5°	674.6	605.8	516.6	336.3	202.6	176.3	202.6	253.2	275.5	271.5	273.5
50°	634.1	563.2	457.9	281.6	180.3	170.2	210.7	257.3	255.3	239.1	237.0
52.5°	591.6	524.7	403.2	239.1	162.1	166.1	218.8	243.1	218.8	192.5	190.4
55°	549.0	480.2	352.5	204.6	149.9	164.1	218.8	216.8	178.3	151.9	149.9
57.5°	*514.6*	*433.6*	*303.9*	*176.3*	*139.8*	*164.1*	*208.7*	*184.4*	*143.8*	*119.5*	*117.5*
60°	470.0	393.0	261.4	156.0	131.7	160.1	190.4	151.9	115.5	97.2	95.2
62.5°	429.5	356.6	224.9	137.8	123.6	156.0	166.1	125.6	95.2	81.0	81.0
65°	393.0	320.1	192.5	125.6	117.5	145.9	143.8	103.3	79.0	68.9	68.9
67.5°	362.6	283.6	164.1	113.5	111.4	135.7	121.6	85.1	68.9	58.8	58.8
70°	328.2	249.2	139.8	103.3	103.3	121.6	101.3	72.9	58.8	50.6	48.6
72.5°	291.7	210.7	119.5	95.2	95.2	107.4	83.1	60.8	48.6	42.5	40.5
75°	253.2	170.2	103.3	87.1	89.1	93.2	68.9	52.7	42.5	36.5	34.4
77.5°	212.7	131.7	89.1	81.0	81.0	79.0	56.7	44.6	34.4	30.4	28.4
80°	168.2	101.3	75.0	72.9	72.9	66.9	46.6	36.5	28.4	24.3	22.3
82.5°	123.6	77.0	64.8	66.9	64.8	54.7	38.5	30.4	22.3	18.2	16.2
85°	89.1	60.8	56.7	60.8	56.7	46.6	32.4	24.3	16.2	12.2	10.1
87.5°	68.9	50.6	50.6	56.7	50.6	36.5	26.3	18.2	10.1	6.1	4.1
90°	56.7	46.6	46.6	50.6	40.5	28.4	18.2	12.2	6.1	2.0	2.0
92.5°	54.7	44.6	46.6	48.6	40.5	28.4	18.2	10.1	6.1	2.0	2.0
95°	52.7	46.6	46.6	46.6	38.5	26.3	16.2	10.1	6.1	2.0	0.0
97.5°	54.7	48.6	48.6	46.6	38.5	26.3	16.2	10.1	6.1	2.0	0.0
100°	56.7	50.6	48.6	46.6	38.5	26.3	16.2	10.1	4.1	2.0	0.0
102.5°	60.8	54.7	50.6	46.6	36.5	26.3	16.2	10.1	4.1	2.0	0.0
105°	62.8	56.7	50.6	46.6	36.5	24.3	16.2	10.1	4.1	2.0	0.0
107.5°	64.8	56.7	50.6	44.6	36.5	24.3	16.2	10.1	4.1	2.0	0.0
110°	64.8	58.8	48.6	44.6	34.4	24.3	14.2	8.1	4.1	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1449792
CATALOG NUMBER: AXCS4ARL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	64.8	56.7	48.6	42.5	34.4	24.3	14.2	8.1	4.1	0.0	0.0
115°	64.8	56.7	46.6	40.5	32.4	22.3	14.2	8.1	4.1	0.0	0.0
117.5°	62.8	54.7	44.6	38.5	30.4	22.3	14.2	8.1	4.1	0.0	0.0
120°	58.8	52.7	42.5	36.5	30.4	20.3	12.2	8.1	4.1	0.0	0.0
122.5°	56.7	48.6	40.5	34.4	28.4	20.3	12.2	8.1	4.1	0.0	0.0
125°	52.7	46.6	38.5	32.4	26.3	18.2	12.2	8.1	4.1	0.0	0.0
127.5°	48.6	42.5	36.5	30.4	26.3	18.2	10.1	6.1	4.1	0.0	0.0
130°	44.6	40.5	34.4	28.4	24.3	16.2	10.1	6.1	4.1	0.0	0.0
132.5°	42.5	38.5	32.4	28.4	22.3	16.2	10.1	6.1	4.1	0.0	0.0
135°	38.5	34.4	28.4	24.3	20.3	14.2	10.1	6.1	2.0	0.0	0.0
137.5°	34.4	32.4	26.3	24.3	18.2	14.2	8.1	4.1	2.0	0.0	0.0
140°	32.4	28.4	24.3	22.3	18.2	12.2	8.1	4.1	2.0	0.0	0.0
142.5°	28.4	26.3	22.3	20.3	16.2	12.2	8.1	4.1	2.0	0.0	0.0
145°	26.3	24.3	20.3	18.2	14.2	10.1	6.1	4.1	2.0	0.0	0.0
147.5°	24.3	22.3	18.2	16.2	14.2	10.1	6.1	4.1	2.0	0.0	0.0
150°	22.3	20.3	18.2	14.2	12.2	8.1	4.1	2.0	2.0	0.0	0.0
152.5°	18.2	18.2	16.2	14.2	10.1	8.1	4.1	2.0	2.0	0.0	0.0
155°	16.2	16.2	14.2	12.2	8.1	6.1	4.1	2.0	0.0	0.0	0.0
157.5°	14.2	14.2	12.2	10.1	8.1	6.1	4.1	2.0	0.0	0.0	0.0
160°	12.2	12.2	10.1	8.1	6.1	4.1	2.0	2.0	0.0	0.0	0.0
162.5°	10.1	10.1	8.1	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0
165°	8.1	8.1	6.1	6.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
167.5°	6.1	6.1	6.1	4.1	4.1	2.0	2.0	2.0	0.0	0.0	0.0
170°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	0.0	0.0	0.0	0.0
172.5°	4.1	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

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

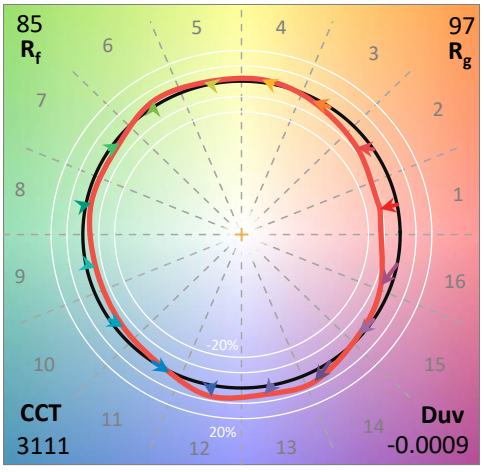
Test Information

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

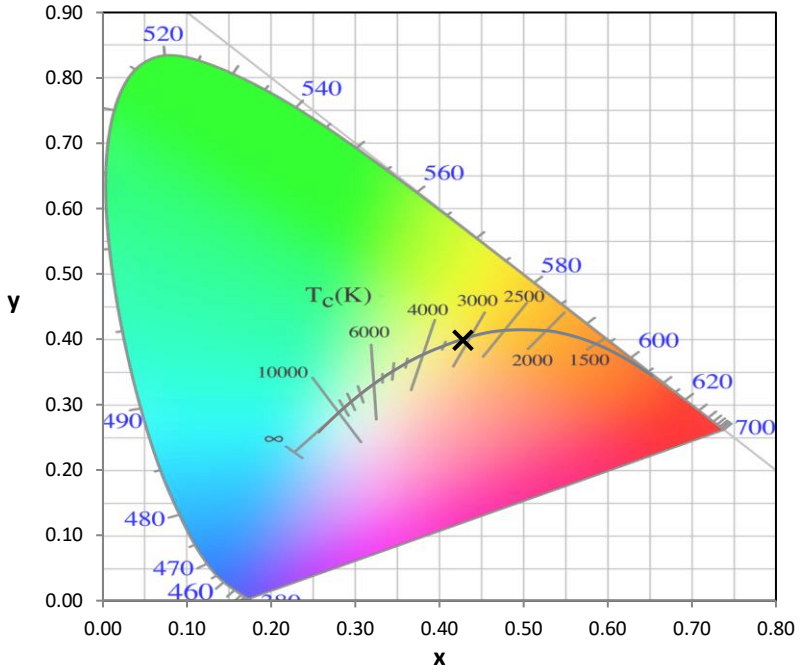
Stabilization Time:	52M
Operation Time:	1H 52M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2512-637-1

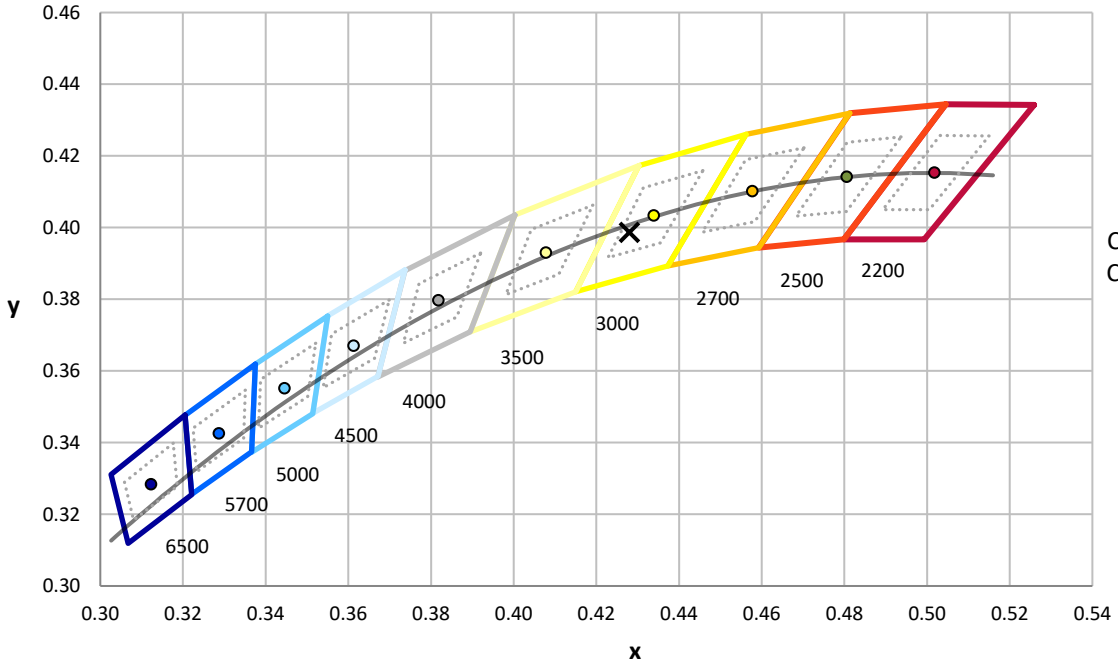
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

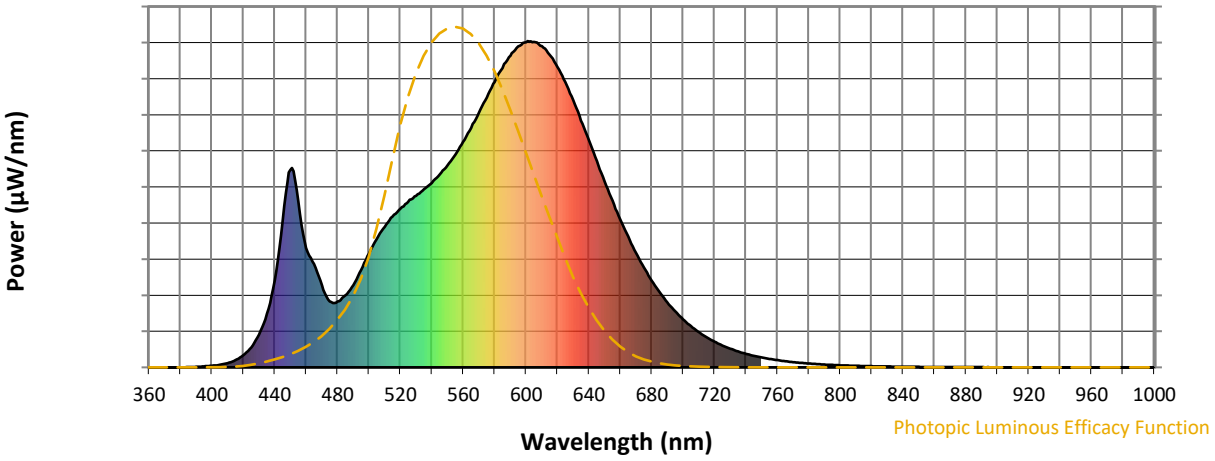


CCT = 3111K
CIE x = 0.4280
CIE y = 0.3986
Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

Photopic Flux vs. Wavelength

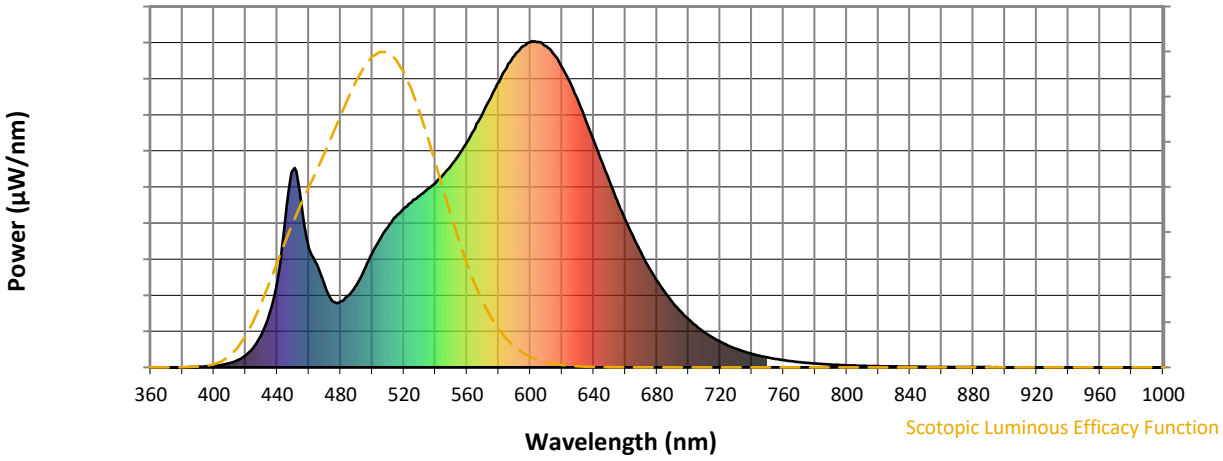


Photopic Lumens: NR

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

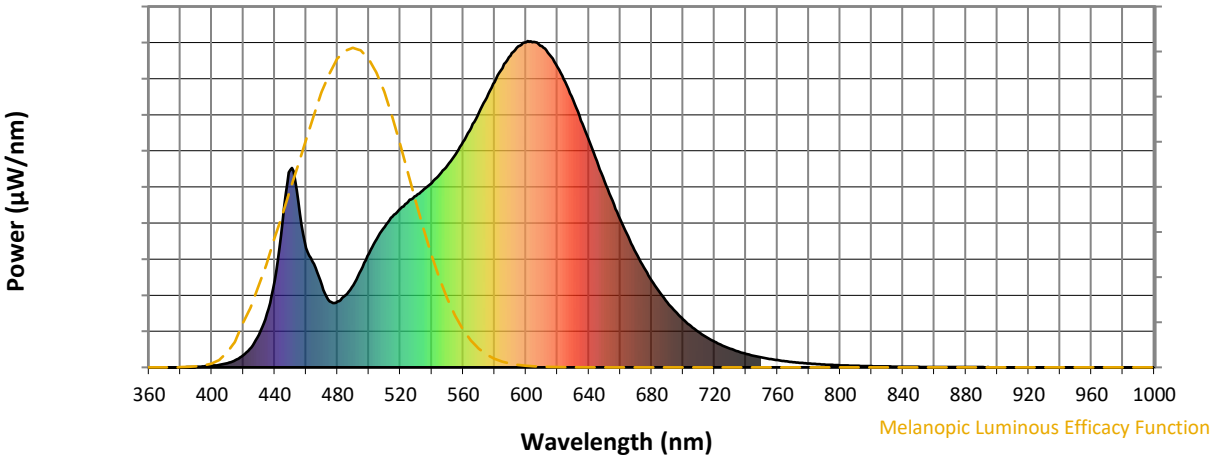


Scotopic Lumens: NR **S/P: 1.4**

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			

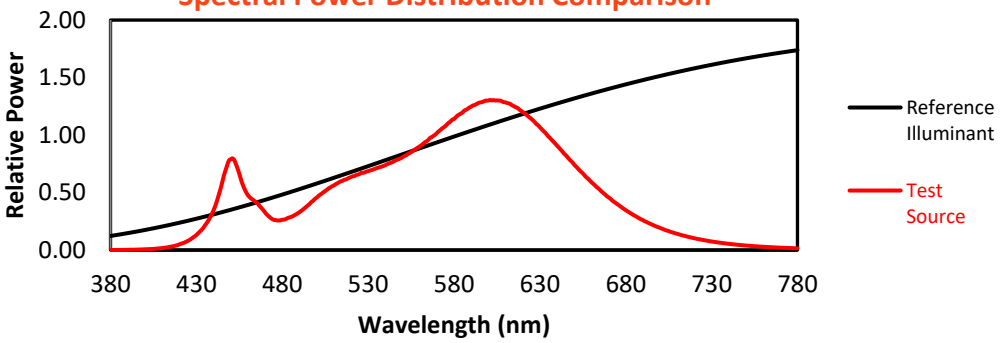
REPORT NUMBER: SP1-2512-637-1

TM-30-18

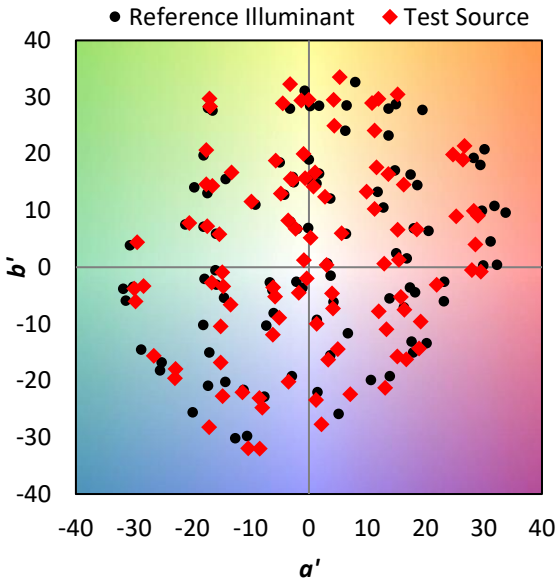
Summary

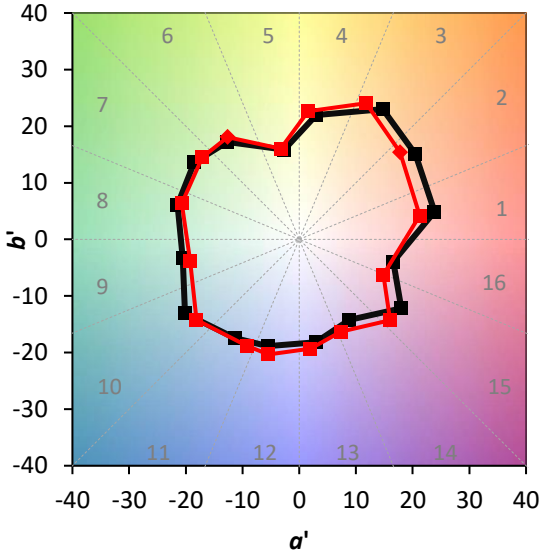
R_f = 85.3
R_g = 96.7
CIE R_a = 83.4
R_9 = 8.9

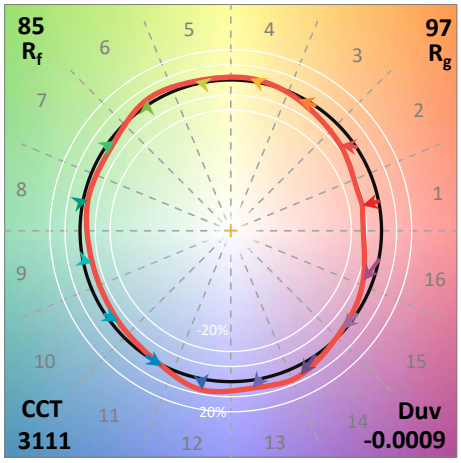
Spectral Power Distribution Comparison

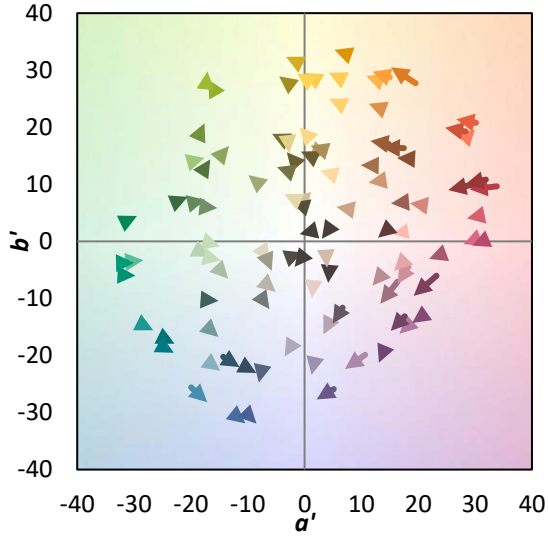


Color Vector Graphics







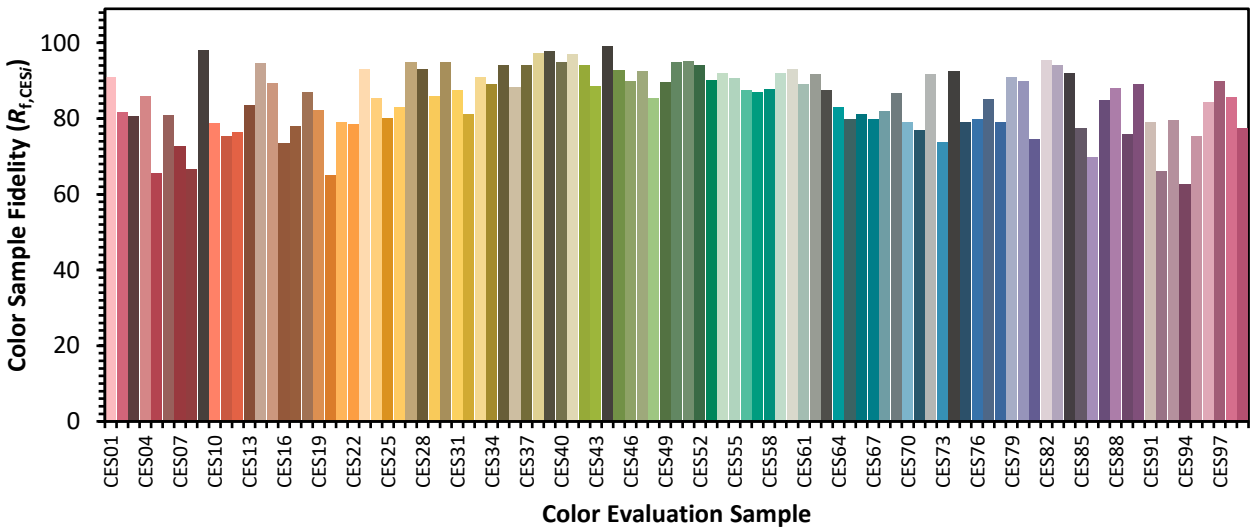


REPORT NUMBER: SP1-2512-637-1

TM-30-18

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

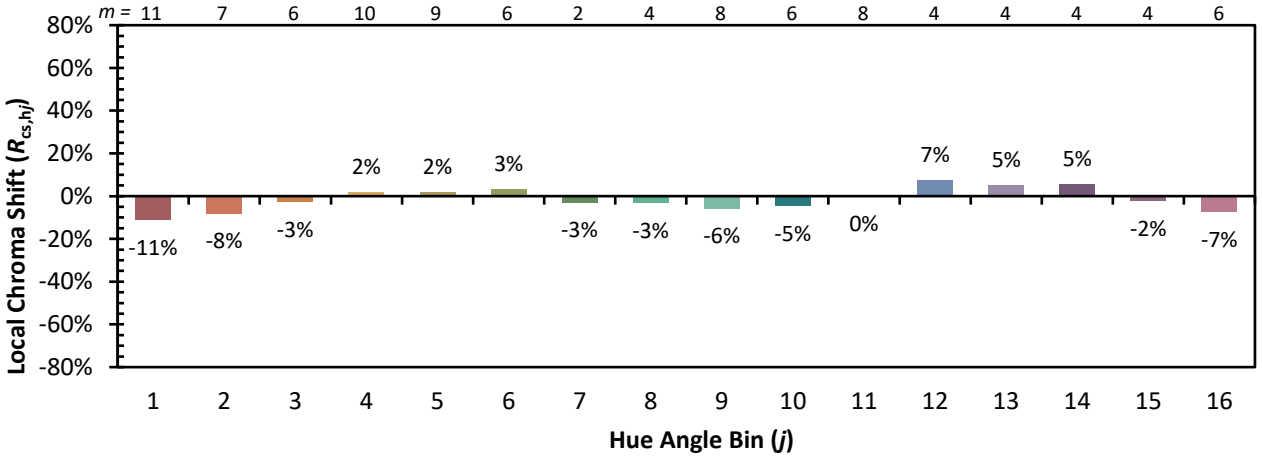
CES01 = 86	CES26 = 83	CES51 = 95	CES76 = 80
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 86	CES54 = 92	CES79 = 91
CES05 = 49	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 87	CES56 = 88	CES81 = 74
CES07 = 42	CES32 = 81	CES57 = 87	CES82 = 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	

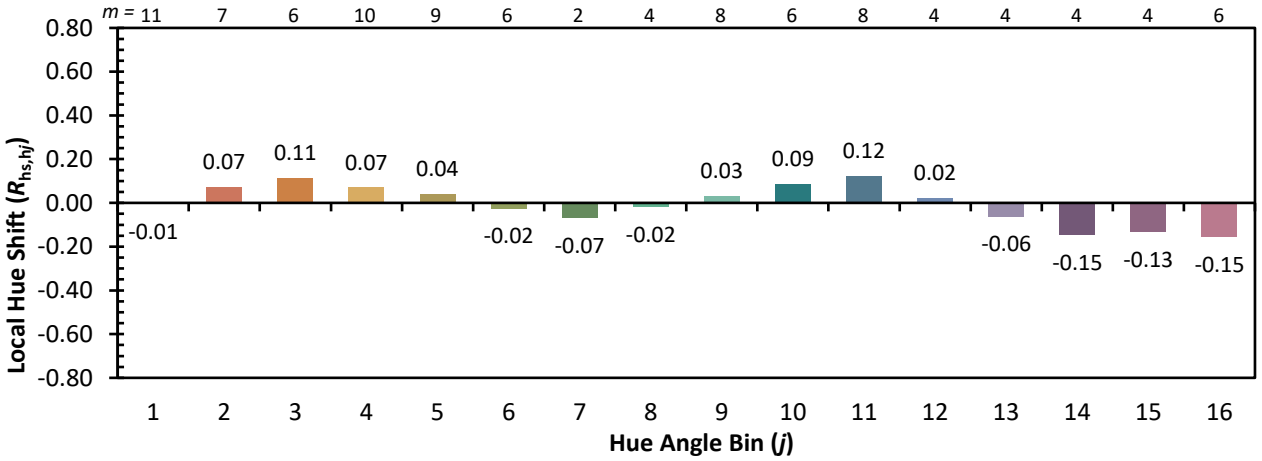


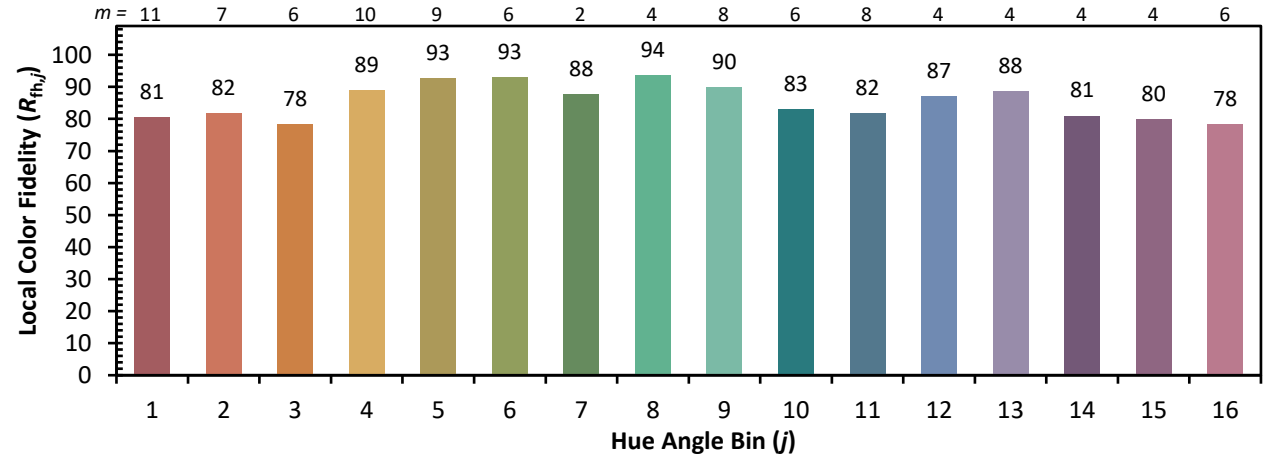
REPORT NUMBER: SP1-2512-637-1

TM-30-18

Color Rendition by Hue-Angle Bin







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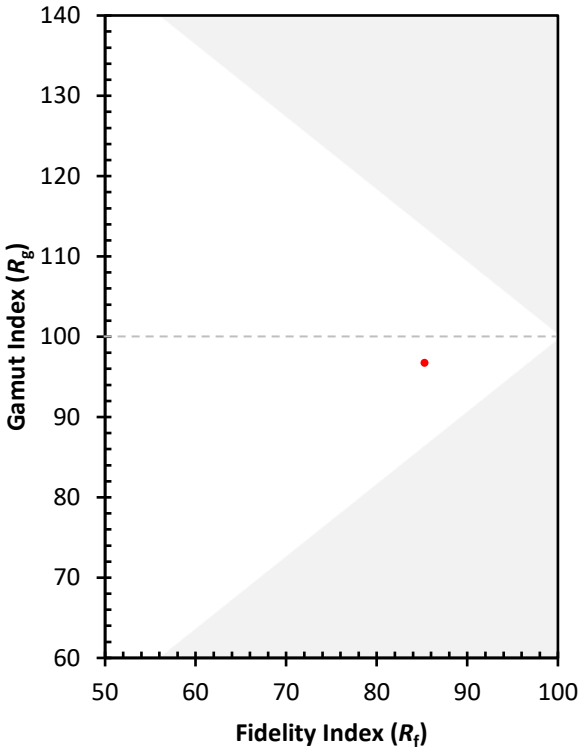
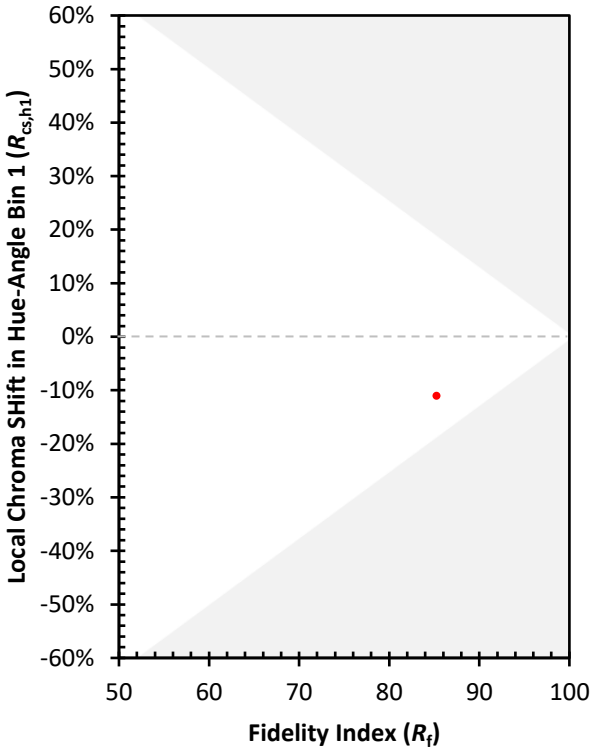
Measure Comparisons





(END OF REPORT)