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: P1449780

Luminaire Tested: **AXCS3ARL-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:	P1449780
	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:	AXCS3ARL-W
Description:	3A AXCENT LED REFRACTIVE LENS WALLPACK WITH 3000K 80CRI LEDS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3182 lumens
Efficiency:	N/A
Efficacy:	138.3 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 - G2

Input Watts (W):	23
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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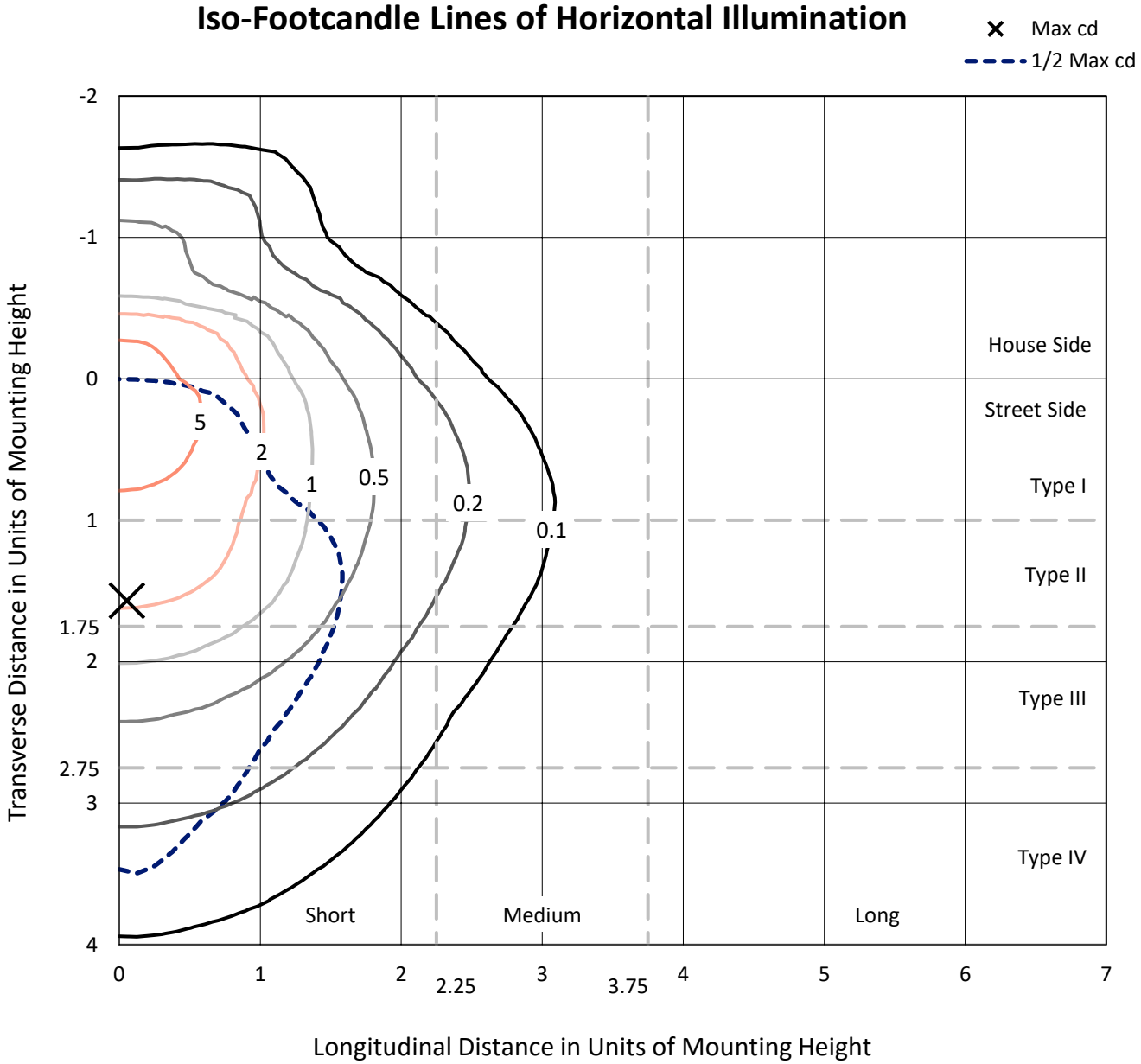
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
Type IV - Short - N/A

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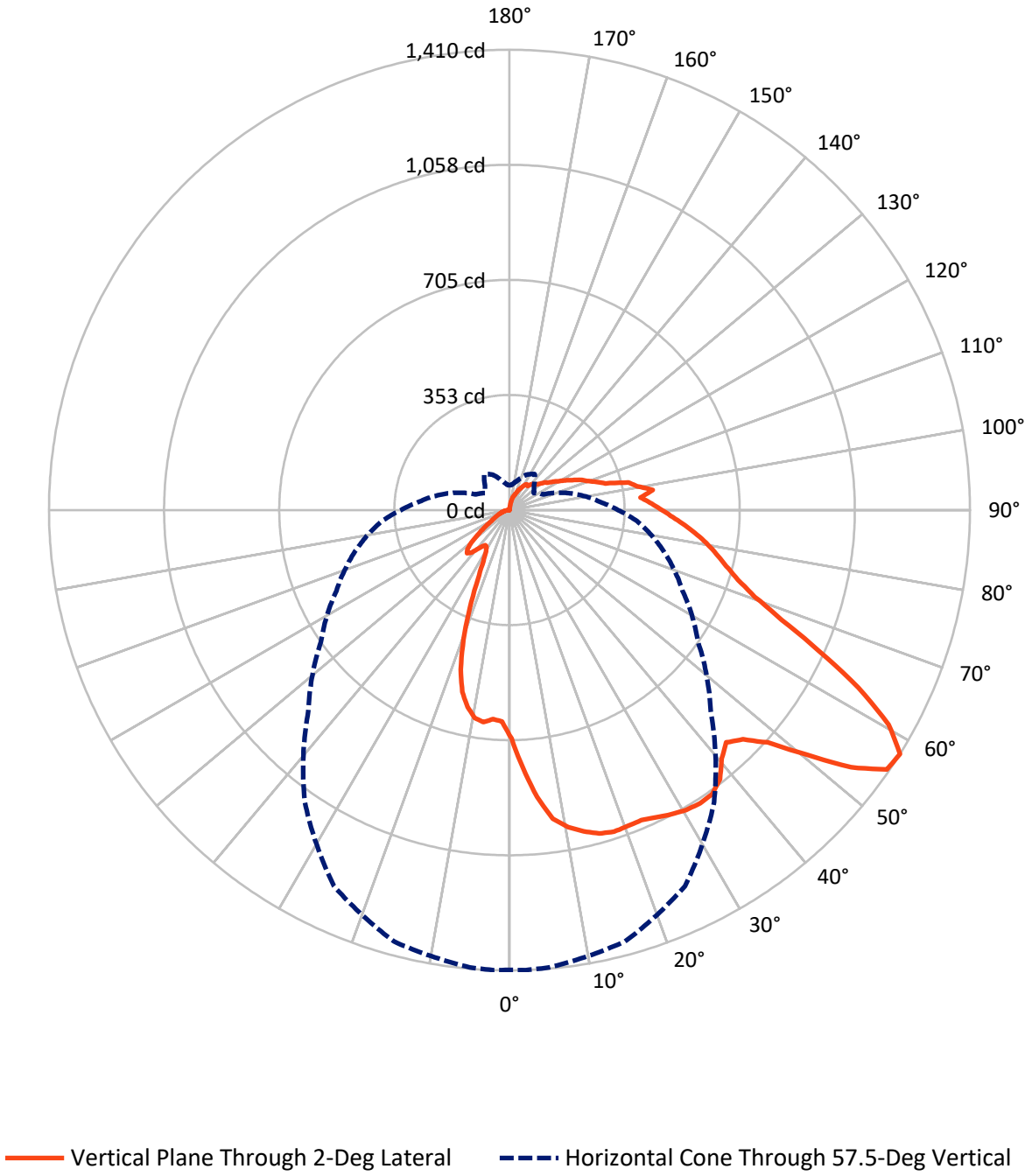
Luminous Intensity Polar Plot



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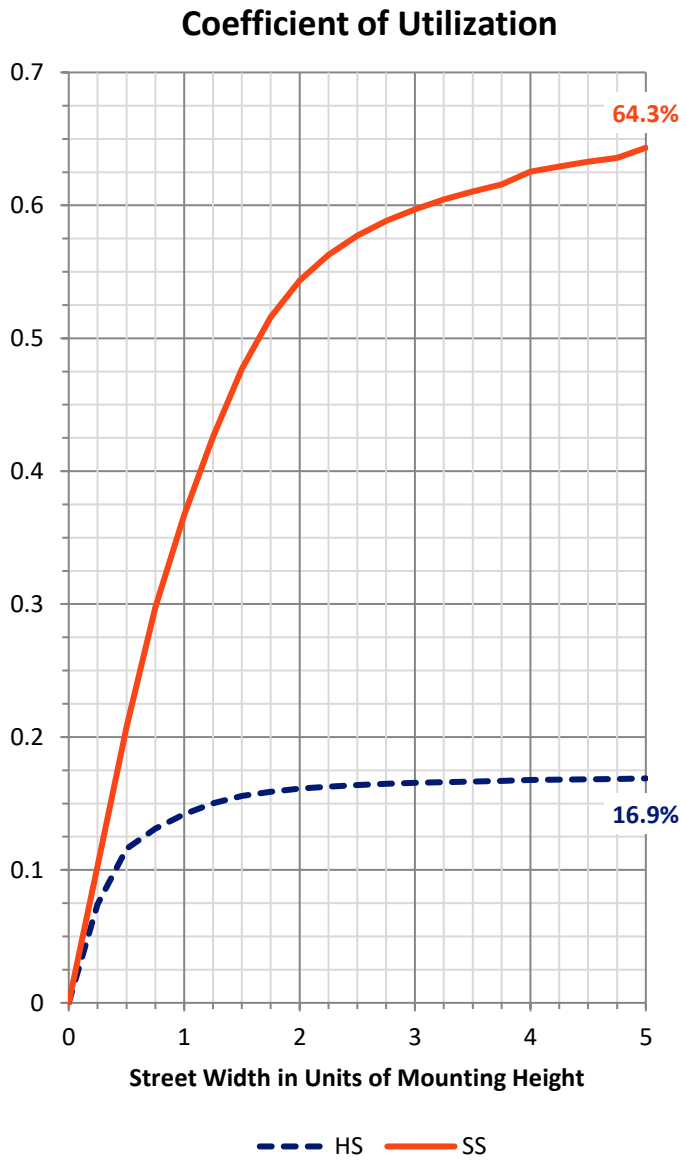
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.5	40.8	589.3
	% Fixture	17.2	1.3	18.5
Street Side	Lumens	2168.2	424.6	2592.7
	% Fixture	68.1	13.3	81.5
Total	Lumens	2716.6	465.4	3182.0
	% Fixture	85.4	14.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	2.2
10°-20°	217.1	6.8
20°-30°	315.8	9.9
30°-40°	373.2	11.7
40°-50°	406.3	12.8
50°-60°	464.6	14.6
60°-70°	403.3	12.7
70°-80°	270.7	8.5
80°-90°	194.4	6.1
90°-100°	150.0	4.7
100°-110°	112.0	3.5
110°-120°	77.0	2.4
120°-130°	52.1	1.6
130°-140°	35.5	1.1
140°-150°	22.9	0.7
150°-160°	11.6	0.4
160°-170°	3.9	0.1
170°-180°	0.3	0.0
0°-90°	2716.6	85.4
0°-180°	3182.0	100.0



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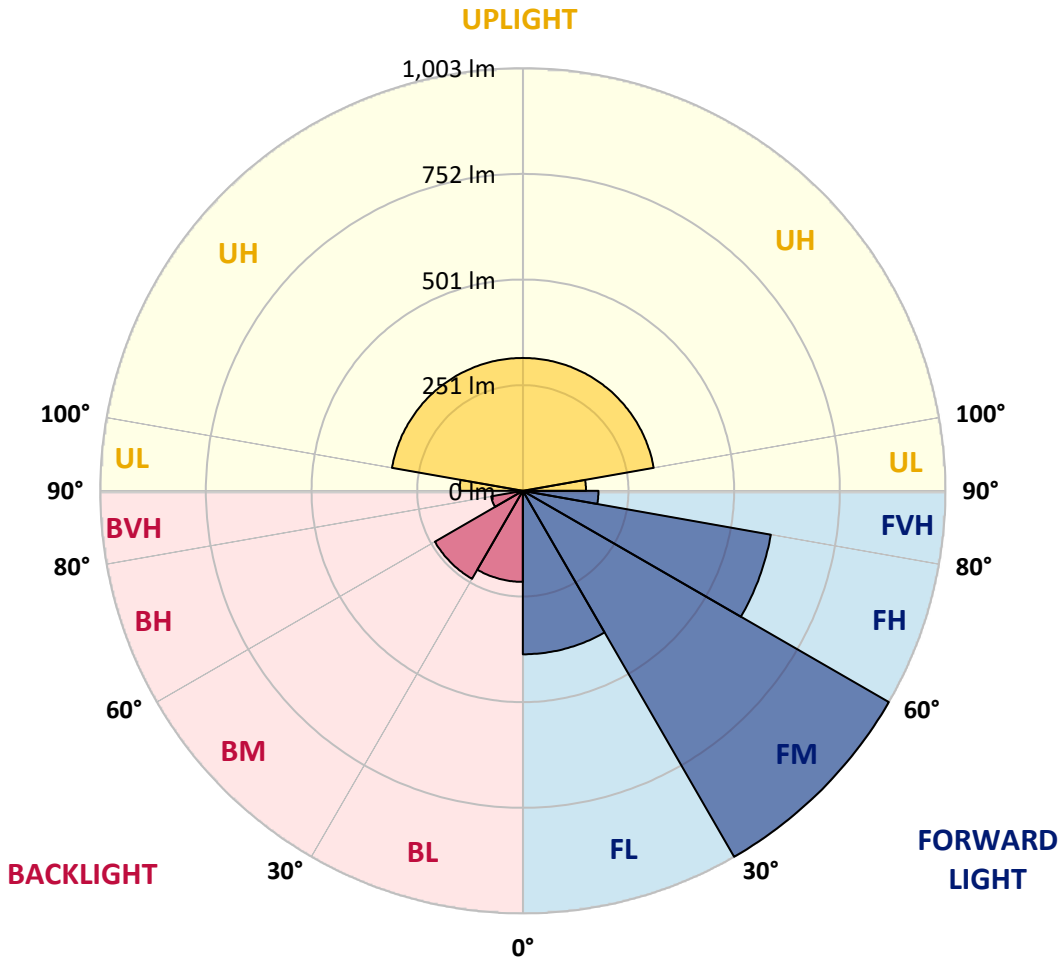
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	388.0	12.2			
FM	(30°-60°)	1003.0	31.5			
FH	(60°-80°)	597.8	18.8			G0/660
FVH	(80°-90°)	179.4	5.6			G2/225
BL	(0°-30°)	216.1	6.8	B1/500		
BM	(30°-60°)	241.2	7.6	B1/1000		
BH	(60°-80°)	76.2	2.4	B0/110		G0/110
BVH	(80°-90°)	14.9	0.5			G1/100
UL	(90°-100°)	150.0	4.7		U3/500	
UH	(100°-180°)	315.4	9.9		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	699.9	*699.9*	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9
2.5°	794.1	*791.4*	790.1	788.8	782.3	774.4	762.7	749.6	735.2	718.2	701.2
5°	884.3	*883.0*	881.7	876.5	866.0	851.6	826.8	805.8	775.7	741.7	710.3
7.5°	956.3	*955.0*	953.7	948.4	936.6	914.4	885.6	854.2	812.4	765.3	716.9
10°	987.7	*987.7*	987.7	983.7	974.6	958.9	931.4	892.2	842.5	783.6	718.2
12.5°	1009.9	*1009.9*	1008.6	1004.7	995.5	979.8	960.2	926.2	869.9	799.3	720.8
15°	1026.9	*1028.2*	1028.2	1023.0	1013.8	996.8	977.2	947.1	894.8	815.0	724.7
17.5°	1034.8	*1036.1*	1034.8	1030.8	1021.7	1004.7	983.7	956.3	907.9	825.5	723.4
20°	1033.5	*1033.5*	1032.1	1028.2	1020.4	1004.7	983.7	953.7	909.2	828.1	718.2
22.5°	1032.1	*1032.1*	1032.1	1025.6	1013.8	998.1	978.5	948.4	905.3	828.1	710.3
25°	1042.6	*1042.6*	1041.3	1032.1	1016.4	994.2	970.7	940.6	897.4	825.5	702.5
27.5°	1054.4	*1055.7*	1053.1	1043.9	1023.0	992.9	962.8	930.1	886.9	817.6	694.6
30°	1066.2	*1066.2*	1064.8	1053.1	1028.2	994.2	953.7	914.4	869.9	805.8	681.6
32.5°	1071.4	*1071.4*	1070.1	1059.6	1033.5	992.9	945.8	896.1	850.3	787.5	663.2
35°	1067.5	*1068.8*	1068.8	1059.6	1038.7	996.8	940.6	880.4	828.1	765.3	642.3
37.5°	1046.5	*1046.5*	1046.5	1043.9	1032.1	999.4	936.6	864.7	803.2	737.8	617.5
40°	998.1	*1000.7*	1000.7	1000.7	1002.1	989.0	936.6	850.3	774.4	707.7	590.0
42.5°	973.3	*973.3*	973.3	962.8	955.0	952.3	922.3	838.5	744.3	673.7	559.9
45°	1002.1	*1002.1*	1000.7	981.1	938.0	907.9	886.9	817.6	715.6	638.4	529.8
47.5°	1067.5	*1063.5*	1062.2	1028.2	973.3	897.4	845.1	783.6	685.5	607.0	503.6
50°	1180.0	*1176.0*	1172.1	1123.7	1032.1	930.1	825.5	745.7	651.5	575.6	472.2
52.5°	1313.4	*1309.5*	1300.3	1246.7	1127.6	979.8	833.3	716.9	621.4	541.6	442.2
55°	1402.4	*1402.4*	1395.8	1346.1	1223.1	1043.9	854.2	706.4	600.4	511.5	417.3
57.5°	*1408.9*	*1410.2*	*1406.3*	*1368.3*	*1271.5*	*1092.3*	*871.2*	*705.1*	*584.8*	*489.3*	*392.5*
60°	1331.7	*1334.3*	1335.6	1299.0	1229.7	1084.5	866.0	694.6	573.0	469.6	367.6
62.5°	1195.7	*1199.6*	1200.9	1164.3	1106.7	1000.7	818.9	669.8	559.9	453.9	346.7
65°	1037.4	*1041.3*	1041.3	1002.1	945.8	864.7	731.3	622.7	537.7	440.9	324.4
67.5°	896.1	*898.7*	898.7	856.8	796.7	719.5	625.3	554.7	506.3	427.8	306.1
70°	794.1	*796.7*	794.1	756.1	684.2	603.1	523.3	484.0	465.7	405.5	283.9
72.5°	728.6	*731.3*	726.0	685.5	609.6	523.3	443.5	418.6	417.3	379.4	262.9
75°	682.9	*685.5*	680.2	637.1	559.9	470.9	388.5	366.3	378.1	354.5	242.0
77.5°	644.9	*647.5*	642.3	599.1	520.7	434.3	351.9	329.7	348.0	323.1	214.5
80°	608.3	*610.9*	605.7	562.5	487.9	408.1	323.1	297.0	307.4	279.9	180.5
82.5°	570.4	*571.7*	566.4	527.2	460.5	385.9	303.5	276.0	285.2	251.2	143.9
85°	528.5	*531.1*	527.2	490.6	431.7	366.3	285.2	261.6	265.6	218.5	108.6
87.5°	490.6	*493.2*	489.3	456.6	405.5	345.4	270.8	245.9	245.9	193.6	82.4
90°	459.2	*460.5*	456.6	429.1	382.0	328.3	257.7	231.5	226.3	171.4	65.4
92.5°	431.7	*430.4*	426.5	404.2	361.1	312.7	247.2	221.1	206.7	150.4	57.6
95°	401.6	*402.9*	400.3	379.4	342.7	295.6	238.1	209.3	185.8	126.9	51.0
97.5°	443.5	*443.5*	442.2	418.6	372.8	312.7	244.6	202.8	167.4	109.9	48.4
100°	402.9	*397.7*	397.7	379.4	345.4	297.0	234.2	188.4	150.4	96.8	47.1
102.5°	371.5	*374.1*	372.8	353.2	319.2	272.1	209.3	164.8	129.5	86.3	48.4
105°	310.0	*304.8*	300.9	287.8	264.2	232.9	185.8	149.1	116.4	81.1	49.7
107.5°	281.3	*278.6*	277.3	266.9	247.2	217.2	175.3	142.6	111.2	77.2	51.0
110°	255.1	*253.8*	252.5	243.3	226.3	197.5	163.5	136.0	106.0	73.3	51.0

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CANDELA DISTRIBUTION (continued):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	236.8	*236.8*	234.2	226.3	208.0	180.5	151.7	129.5	98.1	70.6	51.0
115°	214.5	*213.2*	211.9	205.4	189.7	167.4	141.3	119.0	90.3	69.3	51.0
117.5°	193.6	*193.6*	193.6	185.8	171.4	151.7	133.4	111.2	85.0	66.7	49.7
120°	174.0	*174.0*	174.0	167.4	155.7	140.0	123.0	103.3	79.8	65.4	47.1
122.5°	160.9	*159.6*	159.6	153.1	142.6	128.2	113.8	96.8	77.2	62.8	44.5
125°	145.2	*143.9*	143.9	138.7	130.8	119.0	109.9	92.9	75.9	61.5	41.9
127.5°	138.7	*137.4*	137.4	132.1	124.3	113.8	104.7	87.6	73.3	57.6	39.2
130°	124.3	*124.3*	124.3	120.4	113.8	108.6	96.8	83.7	69.3	54.9	36.6
132.5°	115.1	*115.1*	113.8	112.5	109.9	104.7	91.6	81.1	66.7	51.0	34.0
135°	108.6	*108.6*	108.6	111.2	107.3	98.1	87.6	77.2	62.8	47.1	31.4
137.5°	108.6	*107.3*	107.3	106.0	100.7	92.9	86.3	73.3	58.9	44.5	28.8
140°	100.7	*100.7*	99.4	96.8	92.9	91.6	82.4	69.3	54.9	41.9	24.9
142.5°	91.6	*91.6*	91.6	91.6	94.2	87.6	77.2	65.4	51.0	37.9	23.5
145°	95.5	*95.5*	95.5	92.9	90.3	83.7	71.9	60.2	48.4	35.3	20.9
147.5°	91.6	*91.6*	91.6	89.0	83.7	75.9	65.4	54.9	44.5	32.7	18.3
150°	85.0	*83.7*	83.7	81.1	75.9	68.0	60.2	51.0	41.9	28.8	15.7
152.5°	74.6	*74.6*	74.6	71.9	68.0	62.8	53.6	47.1	36.6	26.2	14.4
155°	68.0	*68.0*	66.7	65.4	60.2	53.6	48.4	41.9	32.7	22.2	11.8
157.5°	57.6	*57.6*	57.6	54.9	52.3	48.4	44.5	36.6	27.5	19.6	9.2
160°	51.0	*51.0*	51.0	49.7	48.4	44.5	39.2	31.4	24.9	17.0	7.8
162.5°	45.8	*45.8*	45.8	44.5	41.9	37.9	32.7	26.2	19.6	13.1	6.5
165°	39.2	*39.2*	37.9	36.6	34.0	31.4	26.2	20.9	15.7	10.5	5.2
167.5°	30.1	*30.1*	30.1	28.8	27.5	24.9	20.9	17.0	11.8	6.5	3.9
170°	22.2	*22.2*	22.2	20.9	19.6	17.0	13.1	10.5	6.5	3.9	2.6
172.5°	14.4	*11.8*	10.5	9.2	9.2	7.8	6.5	5.2	2.6	2.6	2.6
175°	0.0	*0.0*	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
177.5°	0.0	*0.0*	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
180°	1.3	*1.3*	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9
2.5°	694.6	688.1	678.9	668.5	660.6	654.1	651.5	650.2	648.9	648.9	647.5
5°	694.6	684.2	665.9	652.8	644.9	641.0	641.0	641.0	642.3	642.3	642.3
7.5°	694.6	676.3	655.4	642.3	637.1	639.7	644.9	648.9	652.8	654.1	655.4
10°	688.1	664.5	642.3	633.2	634.5	642.3	650.2	650.2	648.9	646.2	644.9
12.5°	682.9	655.4	631.8	627.9	637.1	642.3	635.8	629.2	622.7	617.5	616.1
15°	678.9	646.2	622.7	626.6	635.8	626.6	612.2	597.8	584.8	576.9	574.3
17.5°	669.8	634.5	613.5	621.4	617.5	599.1	574.3	549.4	528.5	512.8	508.9
20°	658.0	620.1	600.4	610.9	592.6	563.8	522.0	482.7	448.7	425.2	418.6
22.5°	644.9	604.4	587.4	591.3	562.5	518.0	455.2	397.7	349.3	321.8	324.4
25°	633.2	590.0	574.3	566.4	525.9	463.1	375.4	303.5	256.4	231.5	232.9
27.5°	620.1	574.3	559.9	542.9	486.6	396.4	290.4	226.3	191.0	174.0	175.3
30°	604.4	557.3	540.3	508.9	434.3	323.1	223.7	175.3	154.4	146.5	145.2
32.5°	586.1	536.3	518.0	473.6	379.4	255.1	177.9	147.8	136.0	133.4	132.1
35°	565.1	515.4	491.9	435.6	320.5	202.8	150.4	134.7	130.8	130.8	130.8
37.5°	540.3	490.6	463.1	393.8	262.9	166.1	134.7	129.5	133.4	138.7	140.0
40°	514.1	465.7	433.0	348.0	215.8	142.6	126.9	132.1	145.2	155.7	157.0
42.5°	489.3	442.2	401.6	302.2	179.2	128.2	124.3	140.0	160.9	174.0	176.6
45°	461.8	418.6	368.9	256.4	150.4	119.0	125.6	151.7	175.3	184.5	185.8
47.5°	435.6	391.1	333.6	217.2	130.8	113.8	130.8	163.5	177.9	175.3	176.6
50°	409.5	363.7	295.6	181.8	116.4	109.9	136.0	166.1	164.8	154.4	153.1
52.5°	382.0	338.8	260.3	154.4	104.7	107.3	141.3	157.0	141.3	124.3	123.0
55°	354.5	310.0	227.6	132.1	96.8	106.0	141.3	140.0	115.1	98.1	96.8
57.5°	*332.3*	*279.9*	*196.2*	*113.8*	*90.3*	*106.0*	*134.7*	*119.0*	*92.9*	*77.2*	*75.9*
60°	303.5	253.8	168.8	100.7	85.0	103.3	123.0	98.1	74.6	62.8	61.5
62.5°	277.3	230.2	145.2	89.0	79.8	100.7	107.3	81.1	61.5	52.3	52.3
65°	253.8	206.7	124.3	81.1	75.9	94.2	92.9	66.7	51.0	44.5	44.5
67.5°	234.2	183.1	106.0	73.3	71.9	87.6	78.5	54.9	44.5	37.9	37.9
70°	211.9	160.9	90.3	66.7	66.7	78.5	65.4	47.1	37.9	32.7	31.4
72.5°	188.4	136.0	77.2	61.5	61.5	69.3	53.6	39.2	31.4	27.5	26.2
75°	163.5	109.9	66.7	56.3	57.6	60.2	44.5	34.0	27.5	23.5	22.2
77.5°	137.4	85.0	57.6	52.3	52.3	51.0	36.6	28.8	22.2	19.6	18.3
80°	108.6	65.4	48.4	47.1	47.1	43.2	30.1	23.5	18.3	15.7	14.4
82.5°	79.8	49.7	41.9	43.2	41.9	35.3	24.9	19.6	14.4	11.8	10.5
85°	57.6	39.2	36.6	39.2	36.6	30.1	20.9	15.7	10.5	7.8	6.5
87.5°	44.5	32.7	32.7	36.6	32.7	23.5	17.0	11.8	6.5	3.9	2.6
90°	36.6	30.1	30.1	32.7	26.2	18.3	11.8	7.8	3.9	1.3	1.3
92.5°	35.3	28.8	30.1	31.4	26.2	18.3	11.8	6.5	3.9	1.3	1.3
95°	34.0	30.1	30.1	30.1	24.9	17.0	10.5	6.5	3.9	1.3	0.0
97.5°	35.3	31.4	31.4	30.1	24.9	17.0	10.5	6.5	3.9	1.3	0.0
100°	36.6	32.7	31.4	30.1	24.9	17.0	10.5	6.5	2.6	1.3	0.0
102.5°	39.2	35.3	32.7	30.1	23.5	17.0	10.5	6.5	2.6	1.3	0.0
105°	40.6	36.6	32.7	30.1	23.5	15.7	10.5	6.5	2.6	1.3	0.0
107.5°	41.9	36.6	32.7	28.8	23.5	15.7	10.5	6.5	2.6	1.3	0.0
110°	41.9	37.9	31.4	28.8	22.2	15.7	9.2	5.2	2.6	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1449780
CATALOG NUMBER: AXCS3ARL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	41.9	36.6	31.4	27.5	22.2	15.7	9.2	5.2	2.6	0.0	0.0
115°	41.9	36.6	30.1	26.2	20.9	14.4	9.2	5.2	2.6	0.0	0.0
117.5°	40.6	35.3	28.8	24.9	19.6	14.4	9.2	5.2	2.6	0.0	0.0
120°	37.9	34.0	27.5	23.5	19.6	13.1	7.8	5.2	2.6	0.0	0.0
122.5°	36.6	31.4	26.2	22.2	18.3	13.1	7.8	5.2	2.6	0.0	0.0
125°	34.0	30.1	24.9	20.9	17.0	11.8	7.8	5.2	2.6	0.0	0.0
127.5°	31.4	27.5	23.5	19.6	17.0	11.8	6.5	3.9	2.6	0.0	0.0
130°	28.8	26.2	22.2	18.3	15.7	10.5	6.5	3.9	2.6	0.0	0.0
132.5°	27.5	24.9	20.9	18.3	14.4	10.5	6.5	3.9	2.6	0.0	0.0
135°	24.9	22.2	18.3	15.7	13.1	9.2	6.5	3.9	1.3	0.0	0.0
137.5°	22.2	20.9	17.0	15.7	11.8	9.2	5.2	2.6	1.3	0.0	0.0
140°	20.9	18.3	15.7	14.4	11.8	7.8	5.2	2.6	1.3	0.0	0.0
142.5°	18.3	17.0	14.4	13.1	10.5	7.8	5.2	2.6	1.3	0.0	0.0
145°	17.0	15.7	13.1	11.8	9.2	6.5	3.9	2.6	1.3	0.0	0.0
147.5°	15.7	14.4	11.8	10.5	9.2	6.5	3.9	2.6	1.3	0.0	0.0
150°	14.4	13.1	11.8	9.2	7.8	5.2	2.6	1.3	1.3	0.0	0.0
152.5°	11.8	11.8	10.5	9.2	6.5	5.2	2.6	1.3	1.3	0.0	0.0
155°	10.5	10.5	9.2	7.8	5.2	3.9	2.6	1.3	0.0	0.0	0.0
157.5°	9.2	9.2	7.8	6.5	5.2	3.9	2.6	1.3	0.0	0.0	0.0
160°	7.8	7.8	6.5	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
162.5°	6.5	6.5	5.2	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0
165°	5.2	5.2	3.9	3.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0
167.5°	3.9	3.9	3.9	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
170°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0
172.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
175°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
177.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

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

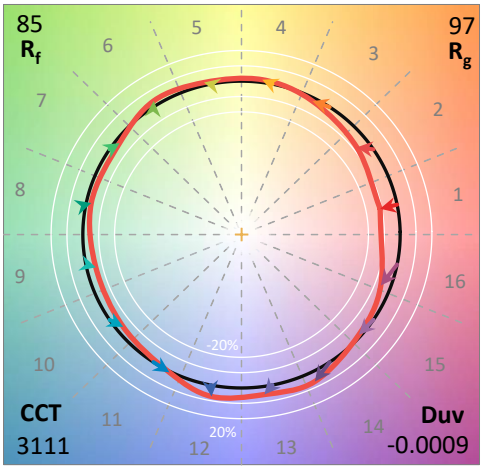
Test Information

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

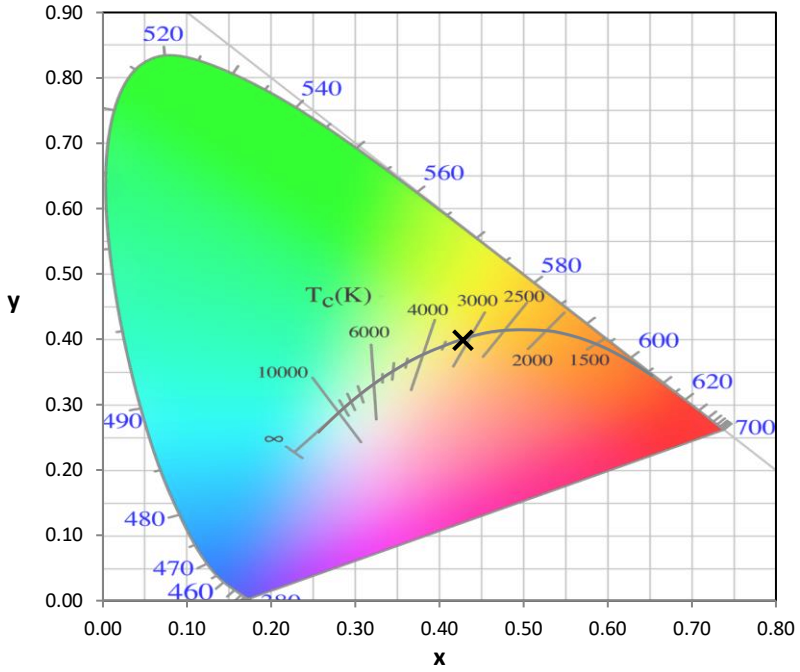
Stabilization Time:	52M
Operation Time:	1H 52M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2512-637-1

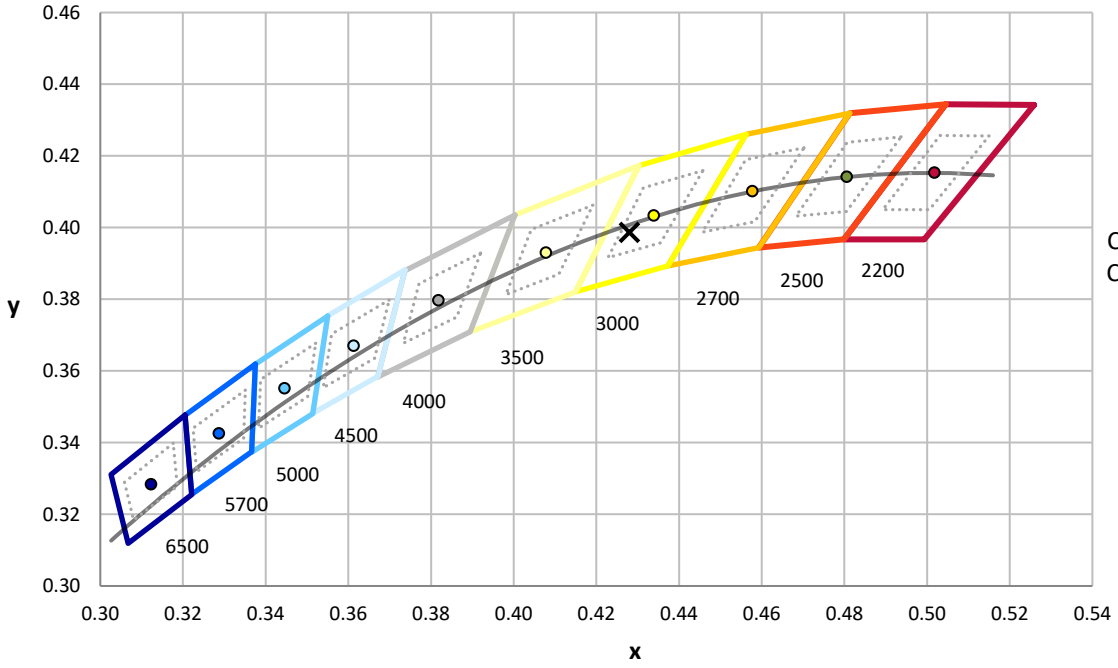
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

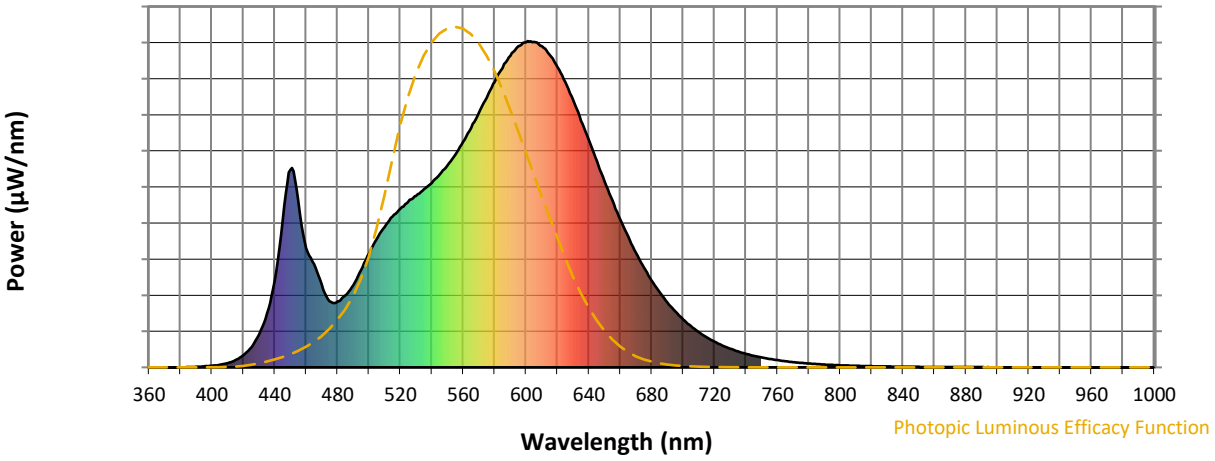


CCT = 3111K
CIE x = 0.4280
CIE y = 0.3986
Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

Photopic Flux vs. Wavelength

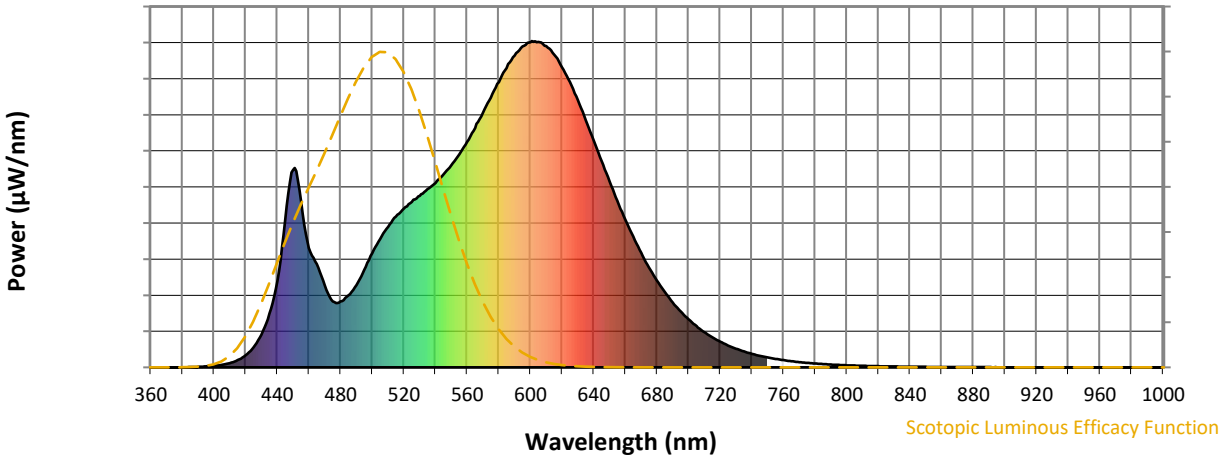


Photopic Lumens: NR

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

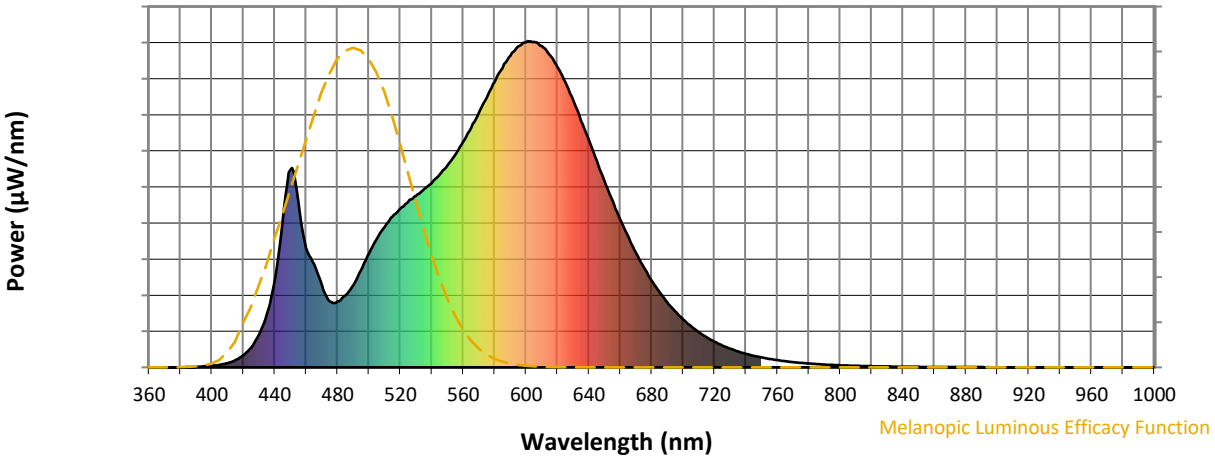


Scotopic Lumens: NR **S/P: 1.4**

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			

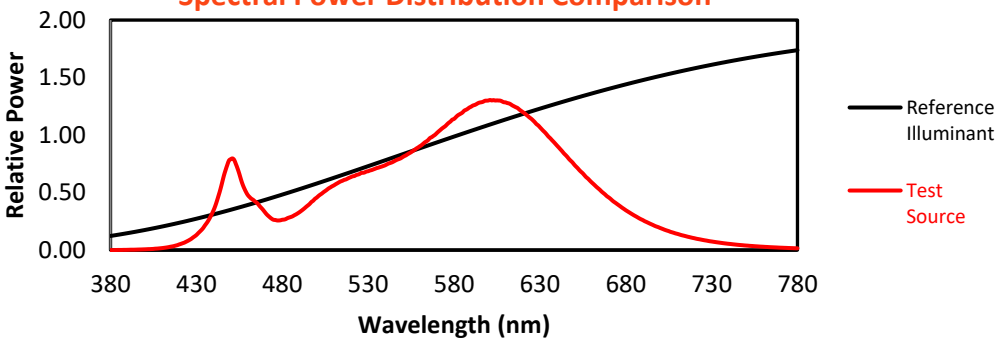
REPORT NUMBER: SP1-2512-637-1

TM-30-18

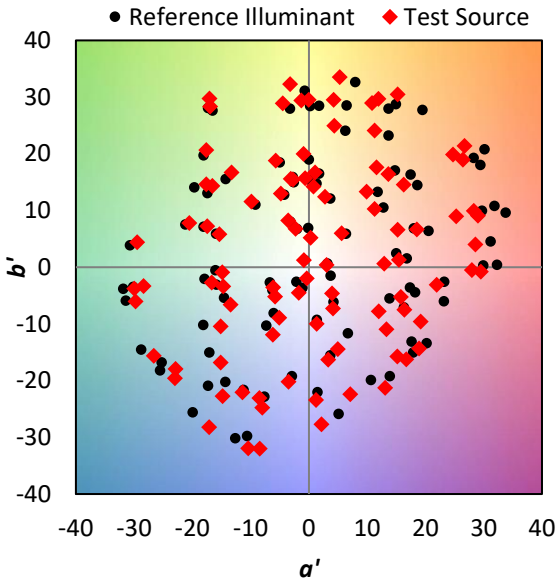
Summary

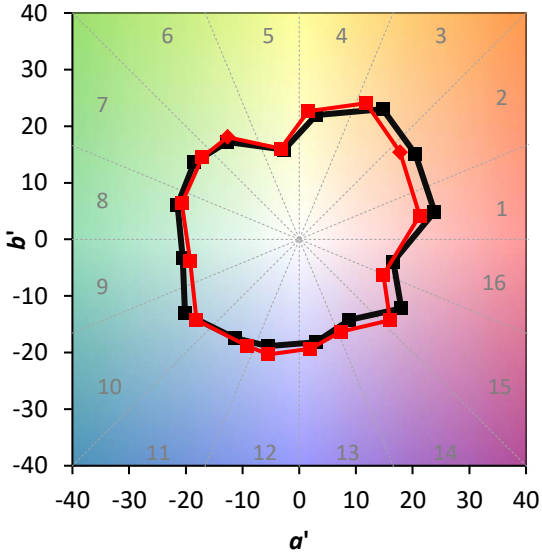
R_f = 85.3
R_g = 96.7
CIE R_a = 83.4
R_9 = 8.9

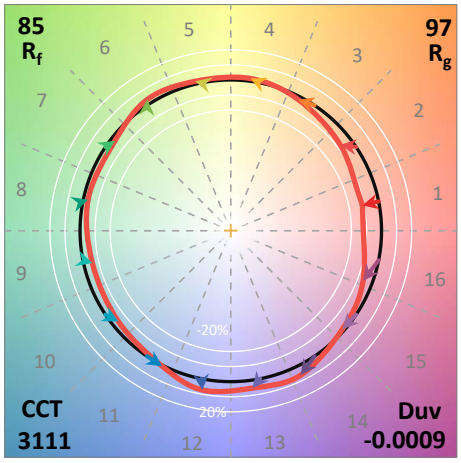
Spectral Power Distribution Comparison

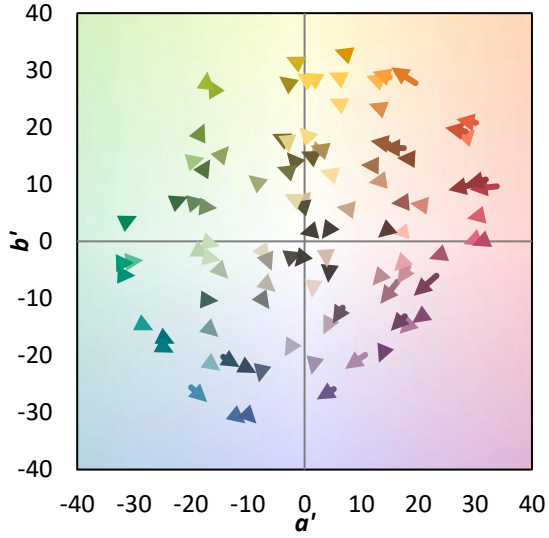


Color Vector Graphics







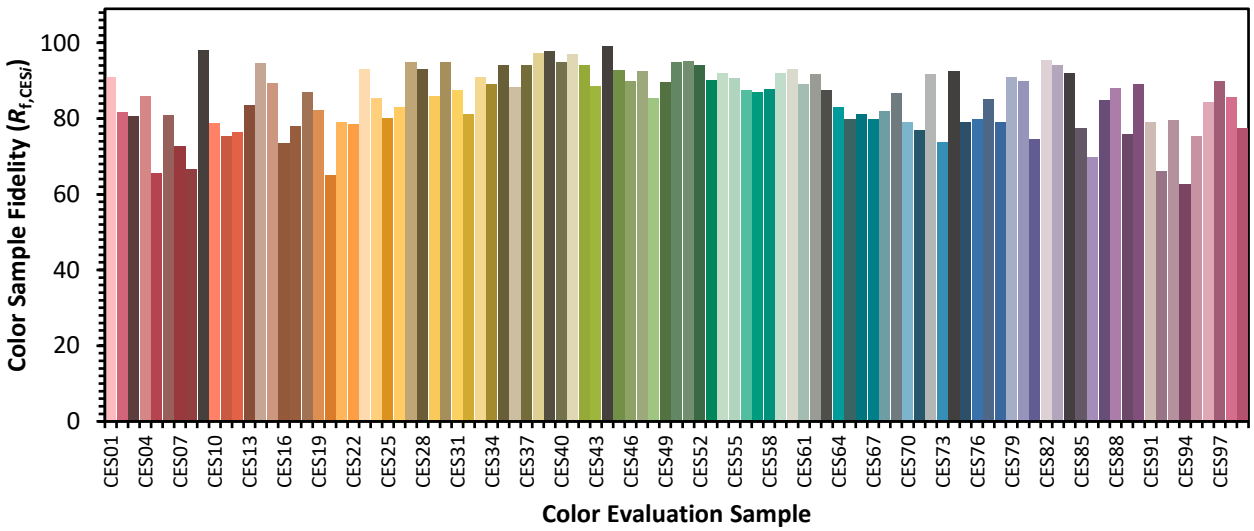


REPORT NUMBER: SP1-2512-637-1

TM-30-18

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

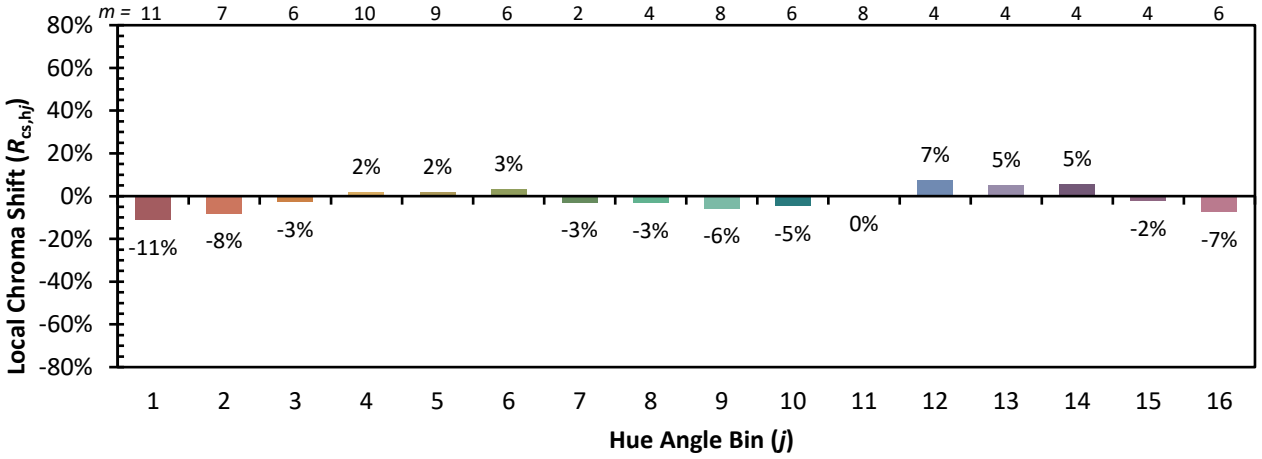
CES01 = 86	CES26 = 83	CES51 = 95	CES76 = 80
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 86	CES54 = 92	CES79 = 91
CES05 = 49	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 87	CES56 = 88	CES81 = 74
CES07 = 42	CES32 = 81	CES57 = 87	CES82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

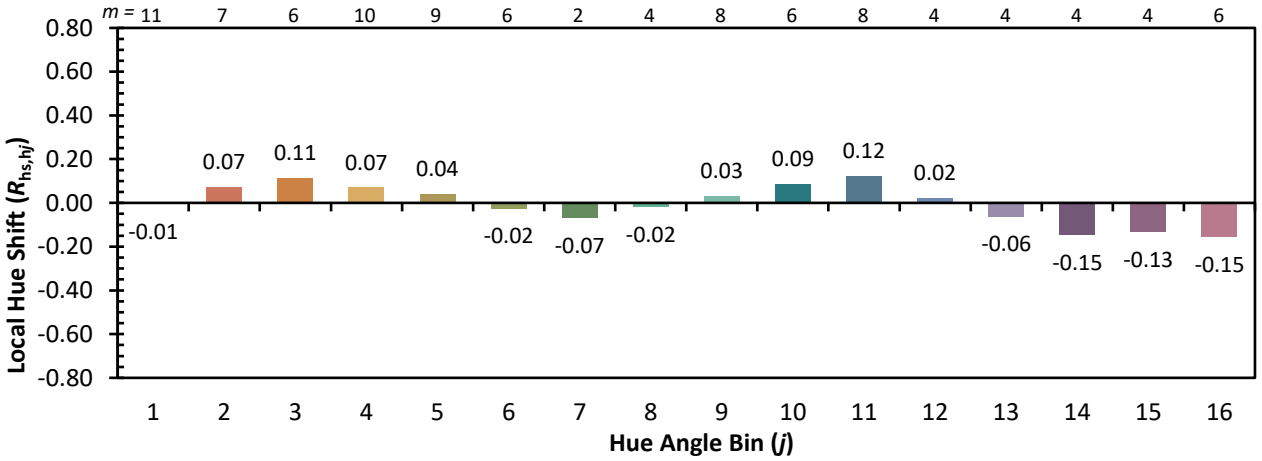


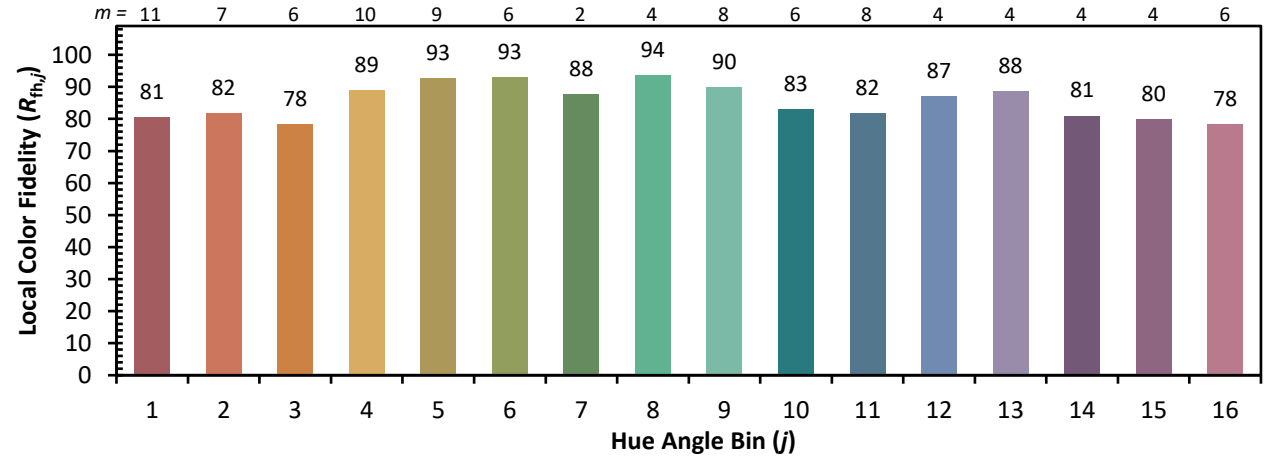
REPORT NUMBER: SP1-2512-637-1

TM-30-18

Color Rendition by Hue-Angle Bin







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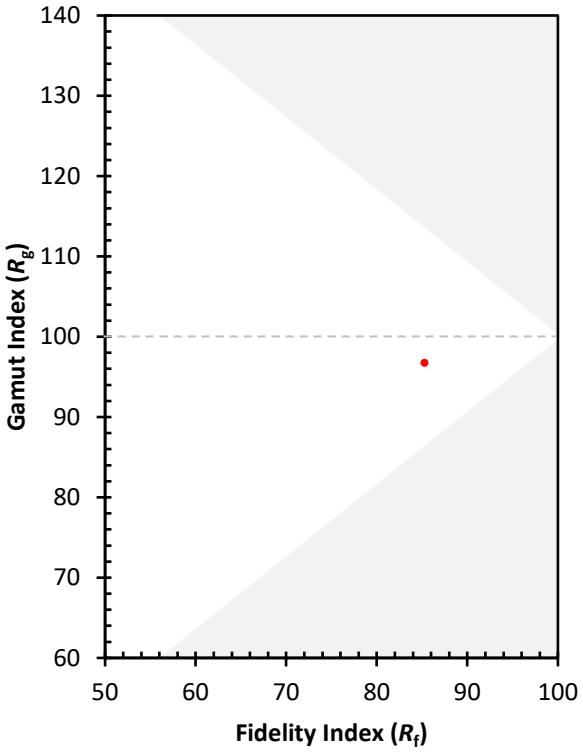
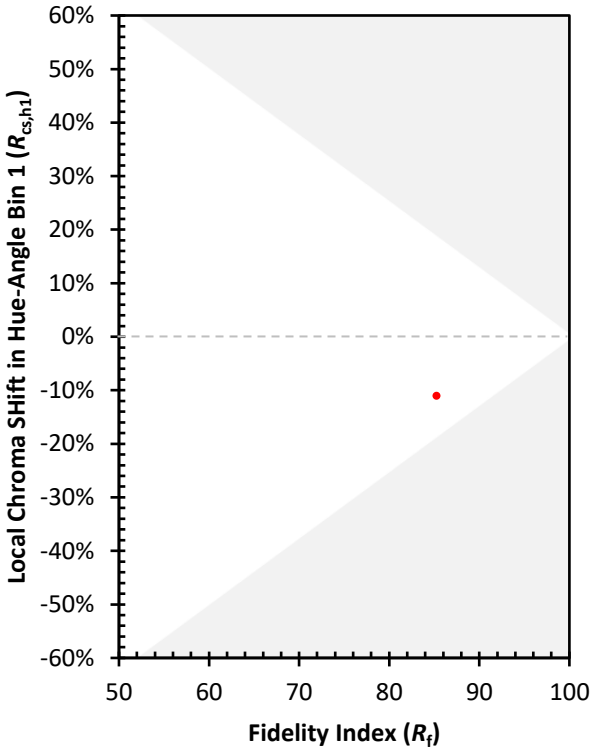
Measure Comparisons





(END OF REPORT)