

Signify Classified - Internal  
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: P1449754

Luminaire Tested: **AXCS1ARL-GRF-W**

Issue Date: 5/12/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449754  
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: AXCS1ARL-GRF-W  
Description: 1A 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: 1540 lumens  
Efficiency: N/A  
Efficacy: 136.3 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

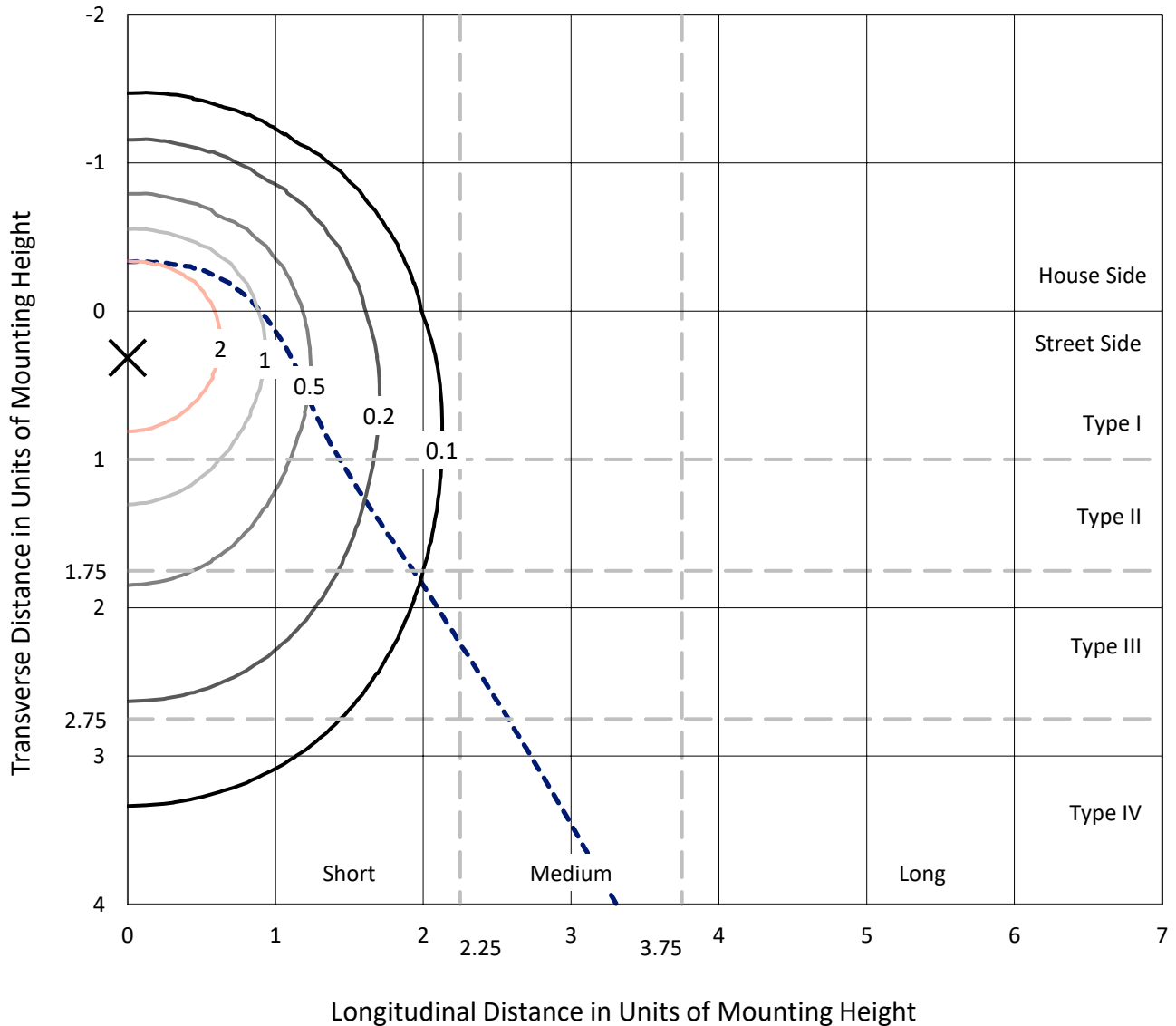
Input Watts (W): 11.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

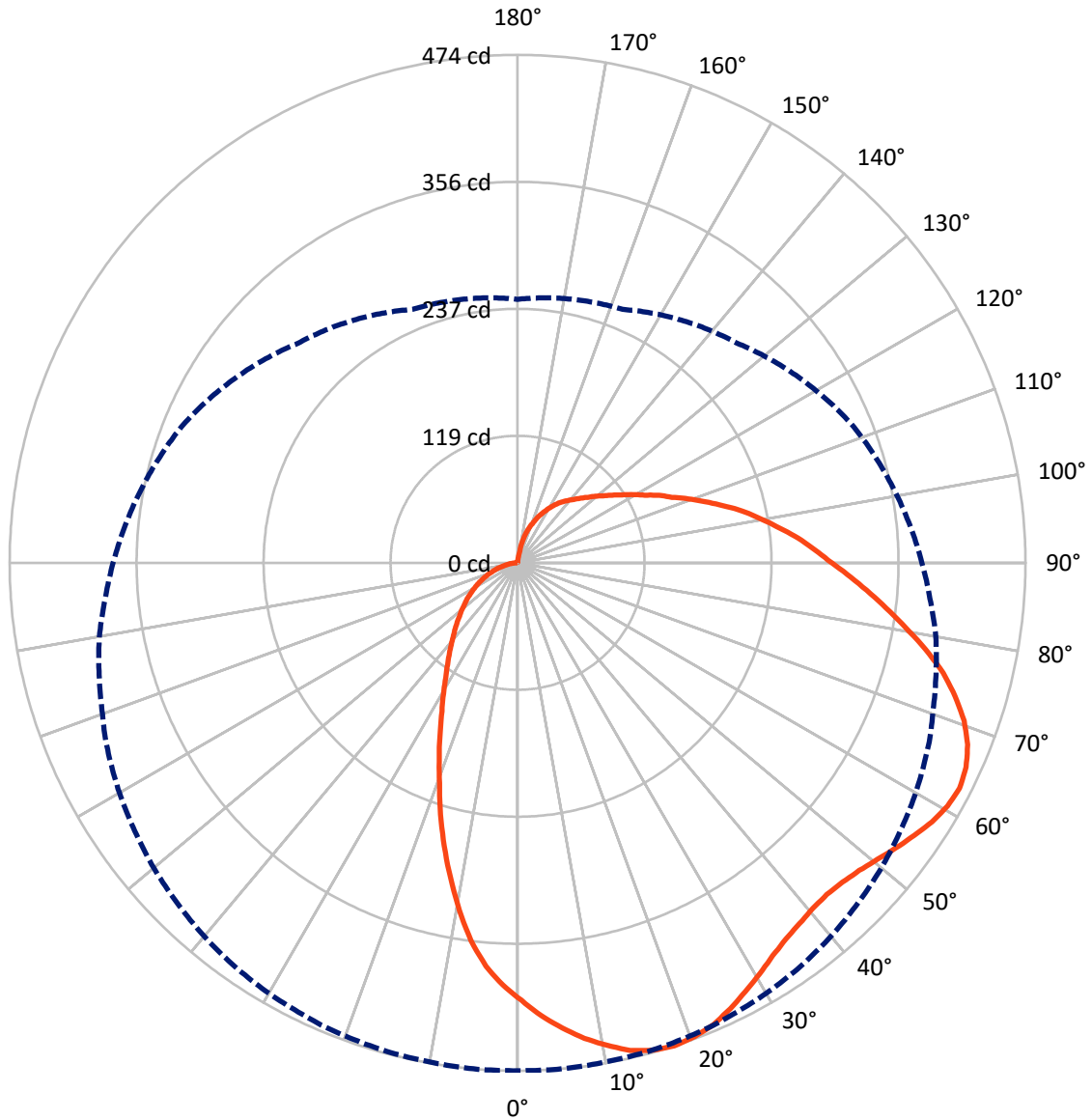
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 17.5-Deg Vertical

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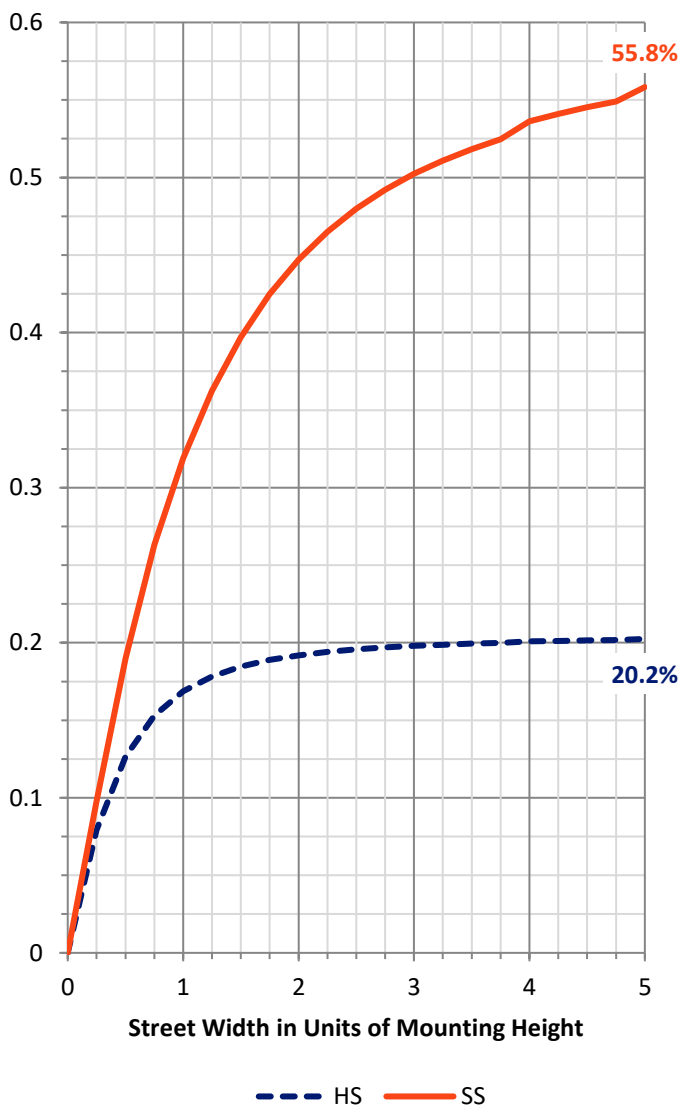
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	317.1	21.7	338.8
	% Fixture	20.6	1.4	22.0
<b>Street Side</b>	Lumens	932.2	269.0	1201.2
	% Fixture	60.5	17.5	78.0
<b>Total</b>	Lumens	1249.3	290.7	1540.0
	% Fixture	81.1	18.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	2.5
10°-20°	107.0	6.9
20°-30°	152.8	9.9
30°-40°	174.0	11.3
40°-50°	179.0	11.6
50°-60°	177.3	11.5
60°-70°	167.8	10.9
70°-80°	143.0	9.3
80°-90°	110.0	7.1
90°-100°	87.0	5.6
100°-110°	68.3	4.4
110°-120°	50.2	3.3
120°-130°	35.6	2.3
130°-140°	24.4	1.6
140°-150°	15.2	1.0
150°-160°	7.6	0.5
160°-170°	2.2	0.1
170°-180°	0.1	0.0
0°-90°	1249.3	81.1
0°-180°	1540.0	100.0

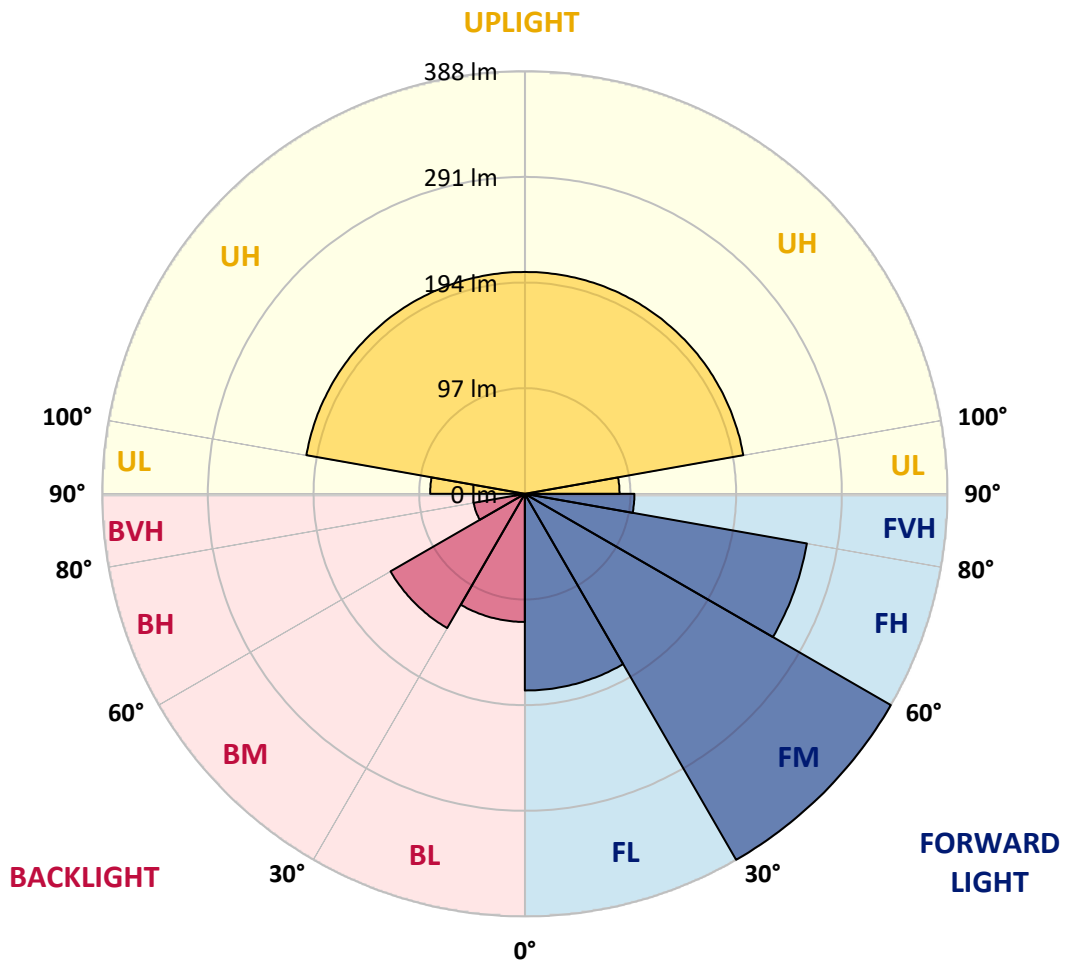


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.6	11.7			
FM (30°-60°)	388.0	25.2			
FH (60°-80°)	263.0	17.1			G0/660
FVH (80°-90°)	100.6	6.5			G2/225
BL (0°-30°)	117.6	7.6	B1/500		
BM (30°-60°)	142.4	9.2	B0/220		
BH (60°-80°)	47.7	3.1	B0/110		G0/110
BVH (80°-90°)	9.4	0.6			G0/10
UL (90°-100°)	87.0	5.6		U3/500	
UH (100°-180°)	203.7	13.2		U3/500	

**BUG Rating: B1-U3-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3
2.5°	423.3	423.3	423.3	422.3	422.3	422.3	422.3	422.3	420.3	420.3	419.3
5°	436.2	436.2	436.2	435.2	435.2	434.2	433.2	432.2	431.2	429.2	428.2
7.5°	448.2	447.2	447.2	446.2	445.2	445.2	444.2	442.2	440.2	437.2	435.2
10°	458.1	458.1	457.1	456.1	455.1	454.1	453.1	450.2	447.2	444.2	441.2
12.5°	467.1	466.1	466.1	464.1	462.1	461.1	460.1	458.1	454.1	450.2	445.2
15°	472.1	472.1	471.1	469.1	467.1	466.1	465.1	462.1	458.1	453.1	448.2
17.5°	474.1	474.1	473.1	472.1	470.1	469.1	467.1	464.1	460.1	455.1	449.2
20°	472.1	472.1	471.1	470.1	469.1	467.1	466.1	463.1	459.1	454.1	448.2
22.5°	468.1	468.1	467.1	466.1	464.1	463.1	462.1	459.1	455.1	450.2	444.2
25°	461.1	460.1	460.1	459.1	457.1	456.1	455.1	452.1	448.2	444.2	438.2
27.5°	453.1	452.1	451.2	450.2	449.2	447.2	446.2	444.2	440.2	435.2	429.2
30°	445.2	444.2	444.2	442.2	440.2	439.2	437.2	434.2	430.2	424.3	419.3
32.5°	437.2	437.2	435.2	434.2	431.2	429.2	428.2	423.3	419.3	413.3	406.3
35°	431.2	431.2	429.2	427.3	423.3	421.3	419.3	413.3	408.3	401.4	393.4
37.5°	427.3	426.3	424.3	420.3	416.3	414.3	411.3	404.3	397.4	389.4	381.4
40°	424.3	423.3	420.3	417.3	411.3	408.3	404.3	396.4	387.4	377.5	367.5
42.5°	423.3	422.3	419.3	414.3	407.3	403.3	398.4	388.4	378.5	366.5	354.5
45°	425.3	423.3	419.3	413.3	404.3	399.4	394.4	382.4	369.5	356.5	342.6
47.5°	429.2	427.3	422.3	415.3	405.3	398.4	392.4	378.5	362.5	347.6	330.6
50°	435.2	432.2	427.3	418.3	406.3	399.4	391.4	374.5	356.5	338.6	320.7
52.5°	442.2	439.2	433.2	423.3	409.3	401.4	392.4	372.5	352.6	331.6	310.7
55°	449.2	447.2	439.2	428.2	412.3	403.3	393.4	371.5	348.6	324.7	301.8
57.5°	456.1	453.1	446.2	433.2	416.3	406.3	394.4	370.5	344.6	318.7	293.8
60°	461.1	458.1	450.2	436.2	418.3	406.3	394.4	368.5	340.6	312.7	284.8
62.5°	463.1	459.1	451.2	437.2	417.3	406.3	393.4	365.5	335.6	304.8	276.9
65°	460.1	457.1	449.2	435.2	414.3	402.4	389.4	360.5	329.7	297.8	267.9
67.5°	453.1	450.2	442.2	428.2	408.3	395.4	382.4	352.6	320.7	288.8	257.9
70°	442.2	440.2	431.2	418.3	397.4	385.4	372.5	342.6	310.7	278.9	248.0
72.5°	427.3	425.3	417.3	403.3	384.4	372.5	359.5	330.6	299.8	267.9	236.0
75°	410.3	406.3	398.4	386.4	368.5	356.5	344.6	316.7	286.8	255.0	225.1
77.5°	389.4	387.4	379.4	368.5	349.6	339.6	327.7	300.8	271.9	242.0	213.1
80°	367.5	366.5	360.5	347.6	331.6	321.7	309.7	284.8	256.9	228.1	200.2
82.5°	346.6	345.6	339.6	327.7	311.7	302.8	292.8	267.9	242.0	215.1	189.2
85°	326.7	324.7	319.7	308.7	293.8	284.8	274.9	252.0	227.1	203.2	177.3
87.5°	307.7	305.7	299.8	289.8	276.9	266.9	257.9	237.0	214.1	191.2	168.3
90°	289.8	288.8	282.8	274.9	260.9	253.0	244.0	225.1	203.2	181.3	159.3
92.5°	274.9	273.9	268.9	258.9	247.0	240.0	231.1	214.1	194.2	173.3	154.4
95°	259.9	257.9	253.0	246.0	234.0	228.1	219.1	203.2	185.2	166.3	147.4
97.5°	244.0	243.0	239.0	231.1	221.1	215.1	208.1	192.2	176.3	159.3	142.4
100°	229.1	228.1	225.1	218.1	208.1	202.2	196.2	182.3	167.3	151.4	135.4
102.5°	215.1	213.1	210.1	203.2	195.2	189.2	184.2	171.3	157.4	142.4	129.5
105°	199.2	198.2	194.2	190.2	181.3	177.3	171.3	160.3	147.4	134.4	121.5
107.5°	184.2	183.2	180.3	176.3	169.3	164.3	159.3	149.4	138.4	126.5	114.5
110°	170.3	169.3	167.3	163.3	156.4	153.4	149.4	140.4	130.5	119.5	108.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	156.4	156.4	154.4	151.4	145.4	141.4	138.4	130.5	121.5	112.5	102.6
115°	146.4	144.4	143.4	139.4	135.4	132.5	129.5	121.5	114.5	105.6	97.6
117.5°	134.4	134.4	132.5	129.5	125.5	122.5	120.5	113.5	106.6	99.6	91.6
120°	125.5	124.5	123.5	120.5	116.5	114.5	112.5	106.6	100.6	93.6	86.6
122.5°	116.5	115.5	114.5	112.5	109.6	107.6	105.6	100.6	94.6	88.6	82.7
125°	108.6	108.6	107.6	105.6	102.6	100.6	98.6	94.6	89.6	83.7	77.7
127.5°	101.6	101.6	100.6	98.6	96.6	94.6	92.6	89.6	84.7	79.7	74.7
130°	95.6	94.6	94.6	92.6	90.6	88.6	87.6	83.7	79.7	75.7	70.7
132.5°	89.6	89.6	88.6	86.6	85.6	83.7	82.7	79.7	75.7	71.7	66.7
135°	84.7	84.7	83.7	82.7	80.7	79.7	78.7	75.7	71.7	67.7	63.7
137.5°	79.7	79.7	78.7	77.7	76.7	75.7	73.7	71.7	67.7	63.7	59.8
140°	75.7	75.7	74.7	73.7	71.7	70.7	69.7	67.7	64.7	60.8	56.8
142.5°	71.7	71.7	70.7	69.7	67.7	66.7	65.7	63.7	60.8	56.8	52.8
145°	67.7	66.7	66.7	65.7	63.7	62.7	61.7	59.8	56.8	52.8	48.8
147.5°	62.7	62.7	61.7	60.8	58.8	57.8	56.8	54.8	51.8	48.8	44.8
150°	57.8	57.8	56.8	55.8	54.8	53.8	52.8	50.8	47.8	44.8	40.8
152.5°	52.8	52.8	51.8	50.8	49.8	48.8	47.8	45.8	42.8	40.8	37.8
155°	47.8	47.8	46.8	45.8	44.8	43.8	42.8	40.8	38.8	35.9	33.9
157.5°	41.8	41.8	41.8	40.8	39.8	38.8	37.8	35.9	33.9	31.9	29.9
160°	36.8	36.8	35.9	35.9	34.9	33.9	32.9	31.9	29.9	27.9	25.9
162.5°	31.9	30.9	30.9	29.9	29.9	28.9	27.9	26.9	24.9	23.9	18.9
165°	25.9	25.9	25.9	24.9	23.9	23.9	22.9	20.9	16.9	13.9	11.0
167.5°	17.9	17.9	16.9	14.9	13.9	12.9	12.0	10.0	9.0	8.0	8.0
170°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0
172.5°	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0
175°	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
0°	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3	408.3
2.5°	418.3	416.3	416.3	414.3	414.3	413.3	412.3	410.3	409.3	408.3	401.4
5°	426.3	424.3	421.3	419.3	418.3	416.3	414.3	411.3	409.3	406.3	394.4
7.5°	432.2	429.2	425.3	422.3	420.3	418.3	414.3	411.3	407.3	403.3	386.4
10°	437.2	433.2	429.2	424.3	422.3	419.3	414.3	409.3	404.3	398.4	376.5
12.5°	441.2	436.2	430.2	424.3	422.3	419.3	412.3	406.3	400.4	393.4	364.5
15°	443.2	437.2	430.2	423.3	420.3	416.3	409.3	401.4	394.4	386.4	351.6
17.5°	443.2	436.2	429.2	421.3	417.3	412.3	404.3	396.4	386.4	377.5	337.6
20°	441.2	433.2	425.3	416.3	412.3	407.3	398.4	388.4	378.5	367.5	321.7
22.5°	437.2	429.2	420.3	410.3	405.3	400.4	390.4	379.4	368.5	356.5	304.8
25°	430.2	422.3	412.3	403.3	397.4	391.4	380.4	368.5	356.5	343.6	286.8
27.5°	422.3	413.3	404.3	393.4	387.4	381.4	368.5	356.5	343.6	330.6	269.9
30°	411.3	402.4	392.4	381.4	375.5	369.5	356.5	343.6	329.7	314.7	253.0
32.5°	399.4	390.4	379.4	368.5	361.5	355.5	342.6	328.7	314.7	299.8	234.0
35°	386.4	376.5	365.5	353.6	347.6	340.6	326.7	312.7	298.8	283.8	217.1
37.5°	371.5	361.5	350.6	338.6	331.6	325.7	310.7	296.8	281.8	265.9	200.2
40°	357.5	346.6	334.6	322.7	315.7	308.7	294.8	279.9	263.9	249.0	185.2
42.5°	342.6	330.6	318.7	305.7	298.8	290.8	276.9	261.9	247.0	231.1	169.3
45°	328.7	315.7	301.8	288.8	281.8	274.9	258.9	245.0	229.1	214.1	155.4
47.5°	315.7	300.8	286.8	271.9	264.9	257.9	243.0	228.1	213.1	199.2	142.4
50°	302.8	286.8	270.9	256.0	249.0	242.0	226.1	212.1	196.2	182.3	130.5
52.5°	290.8	272.9	256.0	241.0	233.0	226.1	211.1	195.2	181.3	167.3	118.5
55°	279.9	259.9	242.0	225.1	218.1	211.1	195.2	180.3	166.3	152.4	108.6
57.5°	269.9	248.0	229.1	212.1	203.2	196.2	181.3	166.3	152.4	138.4	98.6
60°	259.9	237.0	216.1	198.2	190.2	182.3	167.3	153.4	139.4	126.5	89.6
62.5°	249.0	226.1	204.2	186.2	177.3	169.3	154.4	140.4	126.5	113.5	80.7
65°	239.0	215.1	193.2	174.3	165.3	157.4	142.4	128.5	114.5	102.6	72.7
67.5°	229.1	204.2	182.3	162.3	153.4	145.4	130.5	116.5	103.6	92.6	64.7
70°	219.1	193.2	170.3	152.4	143.4	134.4	119.5	105.6	92.6	81.7	57.8
72.5°	208.1	183.2	161.3	141.4	132.5	124.5	109.6	95.6	82.7	72.7	50.8
75°	197.2	172.3	150.4	131.5	122.5	114.5	98.6	85.6	72.7	62.7	44.8
77.5°	185.2	161.3	140.4	121.5	113.5	104.6	89.6	75.7	63.7	54.8	37.8
80°	175.3	151.4	131.5	112.5	104.6	96.6	80.7	67.7	55.8	47.8	32.9
82.5°	164.3	141.4	121.5	103.6	95.6	87.6	72.7	59.8	47.8	39.8	27.9
85°	154.4	133.5	113.5	96.6	88.6	80.7	66.7	52.8	41.8	34.9	23.9
87.5°	146.4	126.5	107.6	90.6	82.7	75.7	60.8	47.8	36.8	29.9	20.9
90°	139.4	120.5	102.6	86.6	79.7	71.7	57.8	44.8	33.9	27.9	17.9
92.5°	135.4	117.5	100.6	85.6	77.7	70.7	56.8	43.8	32.9	26.9	17.9
95°	130.5	113.5	97.6	82.7	75.7	68.7	54.8	42.8	32.9	26.9	17.9
97.5°	125.5	109.6	94.6	80.7	73.7	66.7	53.8	41.8	31.9	25.9	16.9
100°	120.5	105.6	90.6	77.7	70.7	64.7	51.8	40.8	30.9	24.9	16.9
102.5°	114.5	100.6	87.6	74.7	68.7	61.7	50.8	39.8	30.9	24.9	16.9
105°	108.6	95.6	83.7	71.7	65.7	59.8	48.8	37.8	29.9	23.9	15.9
107.5°	103.6	91.6	79.7	68.7	62.7	57.8	46.8	36.8	28.9	22.9	15.9
110°	97.6	86.6	76.7	65.7	60.8	55.8	45.8	35.9	27.9	21.9	15.9



REPORT NUMBER: P1449754  
 CATALOG NUMBER: AXCS1ARL-GRF-W

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
112.5°	92.6	82.7	72.7	63.7	57.8	52.8	43.8	34.9	26.9	20.9	14.9
115°	87.6	78.7	69.7	60.8	55.8	50.8	41.8	32.9	24.9	19.9	13.9
117.5°	83.7	74.7	66.7	57.8	52.8	48.8	39.8	31.9	23.9	18.9	13.9
120°	79.7	71.7	63.7	54.8	50.8	46.8	37.8	29.9	22.9	17.9	12.9
122.5°	75.7	67.7	60.8	52.8	48.8	44.8	36.8	28.9	21.9	16.9	12.0
125°	71.7	64.7	57.8	50.8	46.8	42.8	34.9	27.9	20.9	15.9	12.0
127.5°	68.7	61.7	54.8	47.8	43.8	40.8	32.9	25.9	19.9	14.9	11.0
130°	64.7	58.8	52.8	45.8	41.8	38.8	30.9	24.9	17.9	13.9	11.0
132.5°	61.7	55.8	49.8	42.8	39.8	35.9	29.9	22.9	16.9	12.9	10.0
135°	58.8	52.8	46.8	40.8	36.8	33.9	27.9	21.9	15.9	12.9	9.0
137.5°	54.8	49.8	43.8	37.8	34.9	31.9	25.9	19.9	14.9	12.0	9.0
140°	51.8	46.8	40.8	35.9	32.9	29.9	23.9	18.9	12.9	11.0	8.0
142.5°	47.8	42.8	37.8	32.9	30.9	27.9	21.9	16.9	12.0	10.0	7.0
145°	44.8	40.8	35.9	30.9	27.9	25.9	20.9	15.9	11.0	9.0	7.0
147.5°	40.8	36.8	32.9	27.9	25.9	22.9	18.9	13.9	9.0	8.0	6.0
150°	37.8	33.9	29.9	25.9	22.9	20.9	16.9	12.9	8.0	7.0	5.0
152.5°	33.9	30.9	26.9	22.9	19.9	17.9	14.9	11.0	7.0	6.0	5.0
155°	30.9	27.9	23.9	18.9	16.9	15.9	12.9	10.0	6.0	5.0	4.0
157.5°	26.9	23.9	18.9	15.9	14.9	13.9	11.0	8.0	5.0	4.0	3.0
160°	22.9	17.9	13.9	12.9	12.9	12.0	9.0	6.0	4.0	4.0	3.0
162.5°	14.9	12.0	12.0	11.0	10.0	9.0	7.0	5.0	3.0	3.0	2.0
165°	10.0	10.0	9.0	8.0	8.0	7.0	5.0	3.0	3.0	2.0	2.0
167.5°	8.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	2.0	2.0	1.0
170°	5.0	5.0	4.0	3.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
172.5°	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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



REPORT NUMBER: P1449754  
 CATALOG NUMBER: AXCS1ARL-GRF-W

**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
0°	408.3	408.3	408.3
2.5°	396.4	393.4	394.4
5°	384.4	377.5	377.5
7.5°	370.5	358.5	355.5
10°	352.6	333.6	328.7
12.5°	333.6	309.7	300.8
15°	311.7	281.8	272.9
17.5°	289.8	256.0	246.0
20°	267.9	231.1	218.1
22.5°	246.0	207.2	195.2
25°	225.1	186.2	174.3
27.5°	205.2	167.3	155.4
30°	186.2	151.4	140.4
32.5°	170.3	137.4	126.5
35°	154.4	123.5	115.5
37.5°	140.4	113.5	105.6
40°	129.5	104.6	96.6
42.5°	117.5	95.6	88.6
45°	107.6	87.6	81.7
47.5°	98.6	80.7	74.7
50°	90.6	74.7	68.7
52.5°	83.7	68.7	62.7
55°	75.7	62.7	57.8
57.5°	69.7	56.8	51.8
60°	63.7	51.8	46.8
62.5°	56.8	46.8	41.8
65°	51.8	41.8	36.8
67.5°	45.8	36.8	31.9
70°	40.8	31.9	26.9
72.5°	35.9	26.9	22.9
75°	30.9	22.9	18.9
77.5°	25.9	18.9	13.9
80°	21.9	14.9	11.0
82.5°	17.9	12.0	8.0
85°	14.9	9.0	5.0
87.5°	12.0	6.0	2.0
90°	9.0	2.0	0.0
92.5°	9.0	2.0	0.0
95°	9.0	2.0	0.0
97.5°	9.0	2.0	0.0
100°	9.0	2.0	0.0
102.5°	8.0	2.0	0.0
105°	8.0	2.0	0.0
107.5°	8.0	2.0	0.0
110°	8.0	2.0	0.0



REPORT NUMBER: P1449754  
CATALOG NUMBER: AXCS1ARL-GRF-W

**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
112.5°	8.0	2.0	0.0
115°	7.0	2.0	0.0
117.5°	7.0	2.0	0.0
120°	7.0	1.0	0.0
122.5°	6.0	1.0	0.0
125°	6.0	1.0	0.0
127.5°	6.0	1.0	0.0
130°	5.0	1.0	0.0
132.5°	5.0	1.0	0.0
135°	5.0	1.0	0.0
137.5°	4.0	1.0	0.0
140°	4.0	0.0	0.0
142.5°	3.0	0.0	0.0
145°	3.0	0.0	0.0
147.5°	3.0	0.0	0.0
150°	2.0	0.0	0.0
152.5°	2.0	0.0	0.0
155°	2.0	0.0	0.0
157.5°	1.0	0.0	0.0
160°	1.0	0.0	0.0
162.5°	1.0	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

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

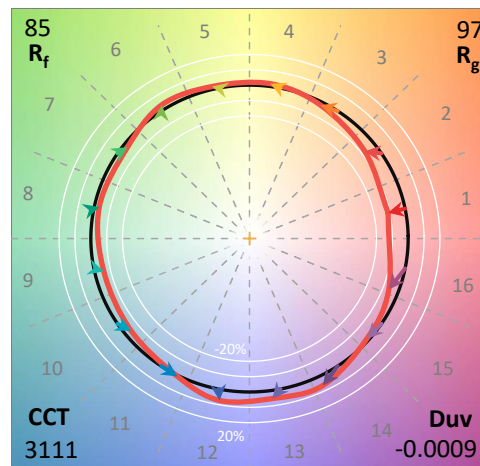
**Test Information**

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



**Test Conditions**

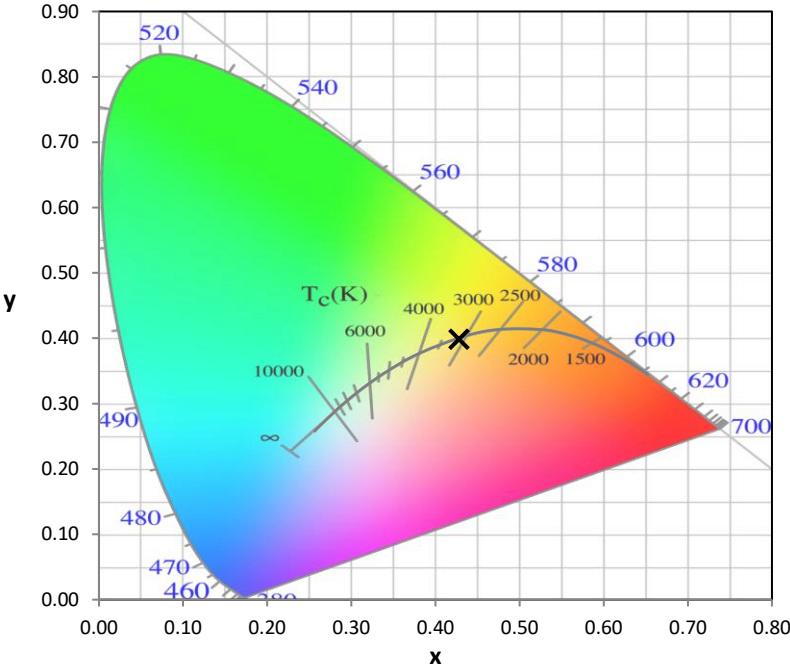
Stabilization Time: 52M  
 Operation Time: 1H 52M  
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2512-637-1

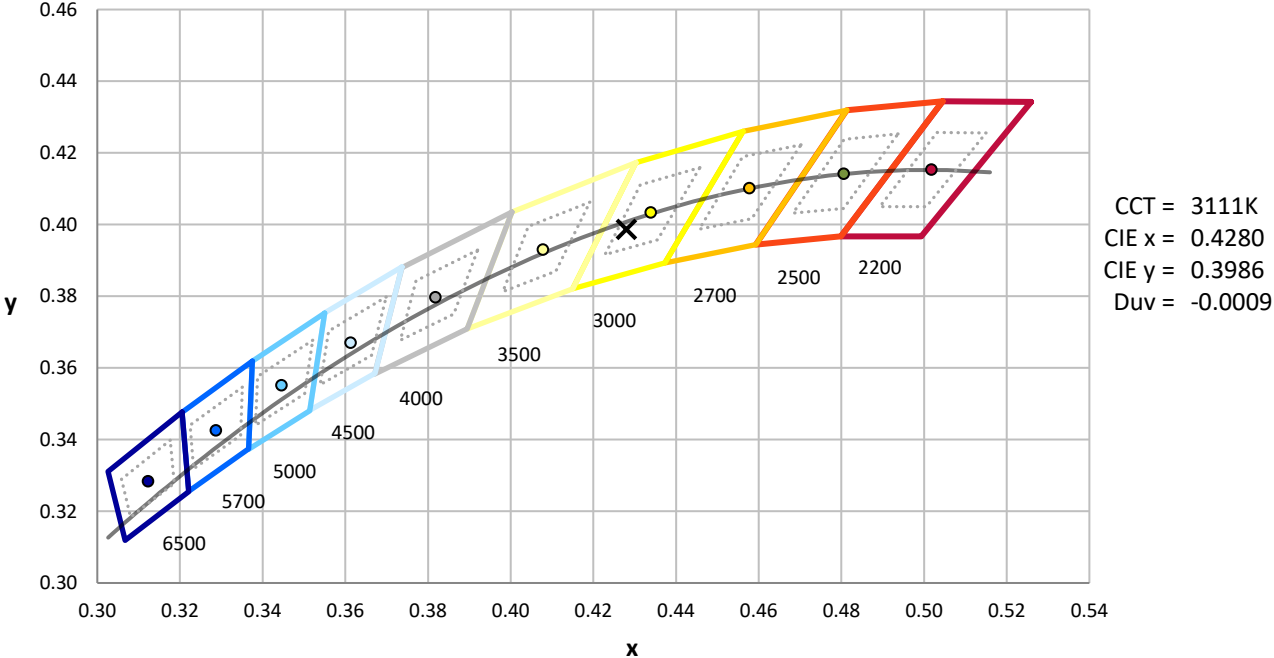
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

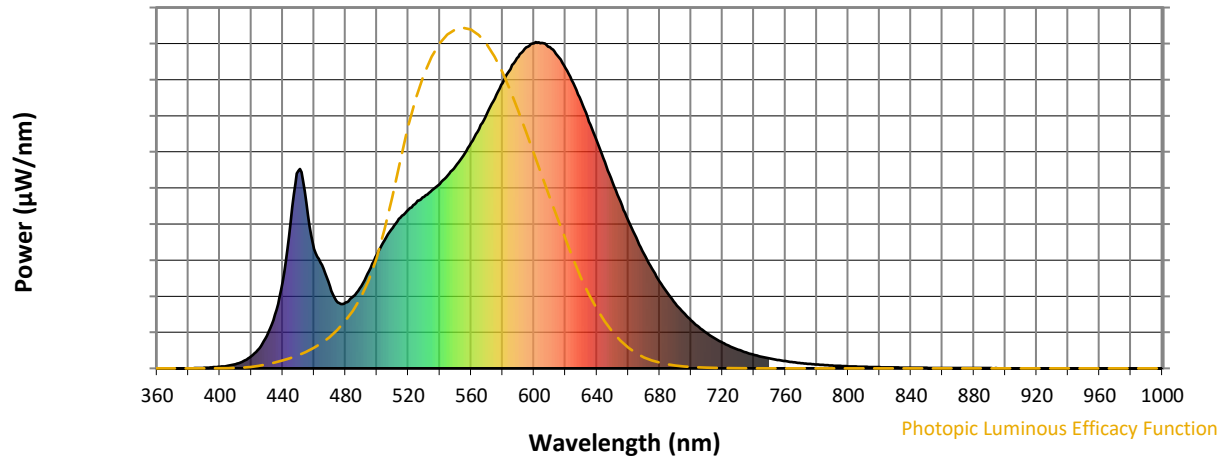


CCT = 3111K  
 CIE x = 0.4280  
 CIE y = 0.3986  
 Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

**Photopic Flux vs. Wavelength**

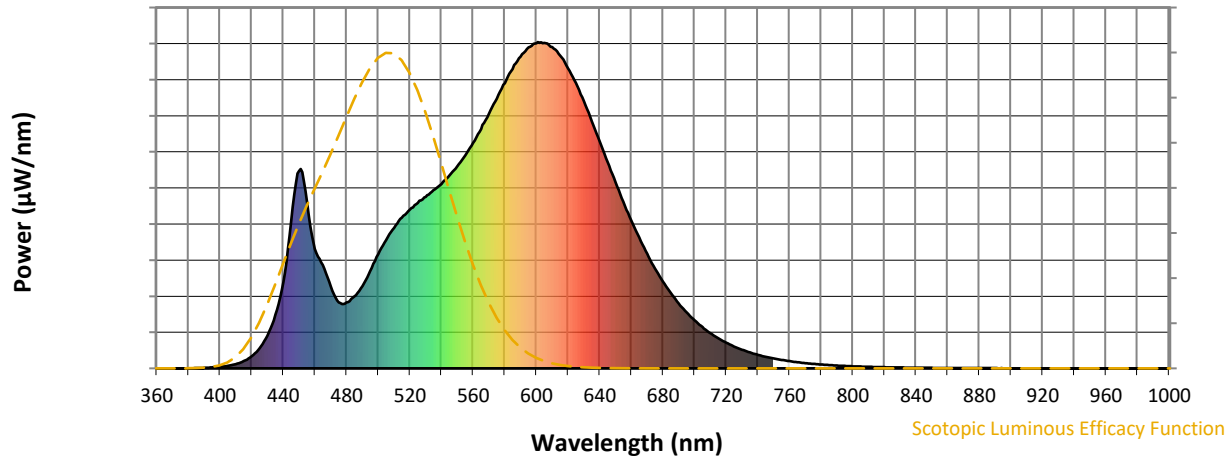


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



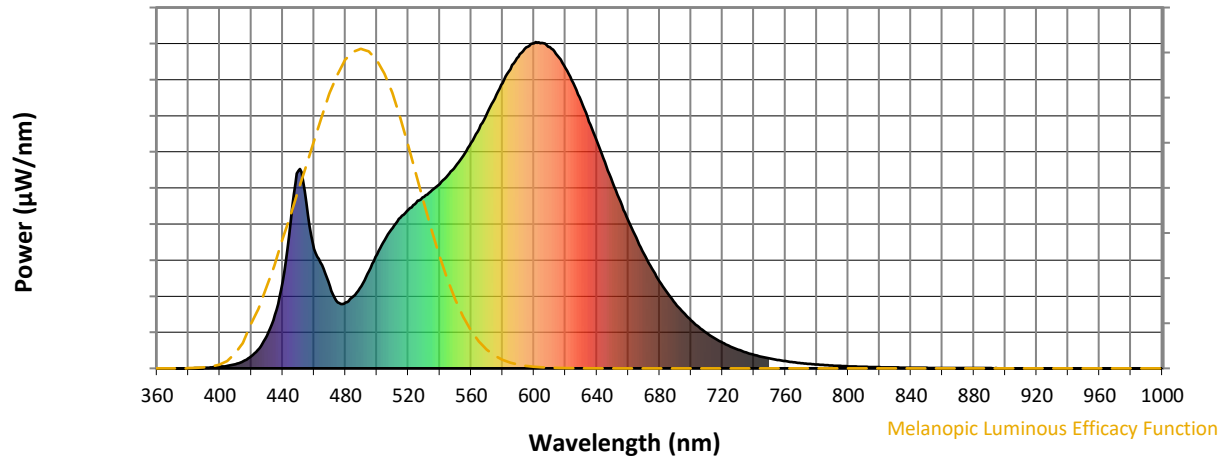
**Scotopic Lumens: NR**

**S/P: 1.4**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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**



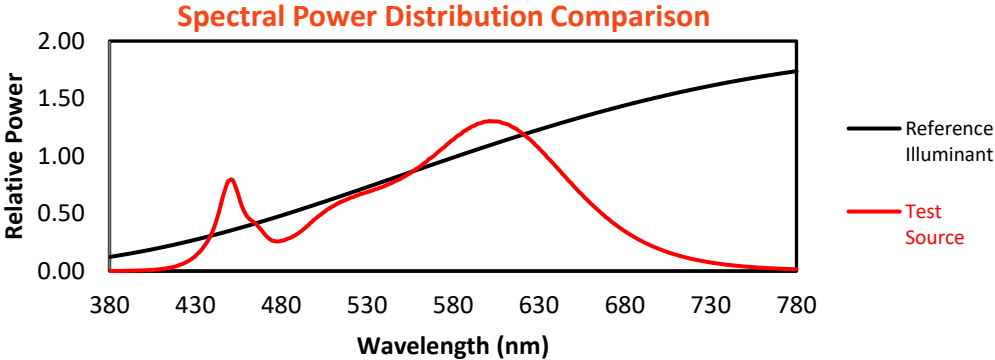
**Melanopic Lumens: NR**

**M/P: 2.73**

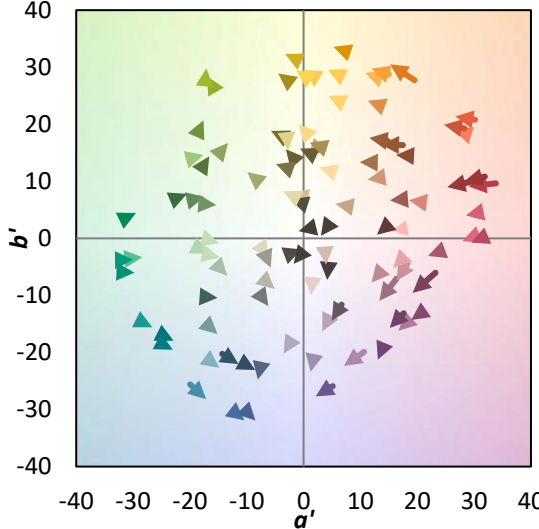
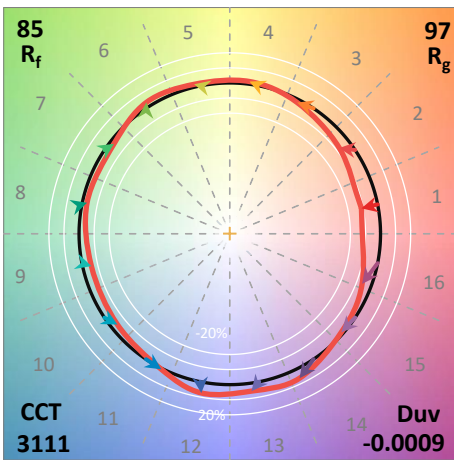
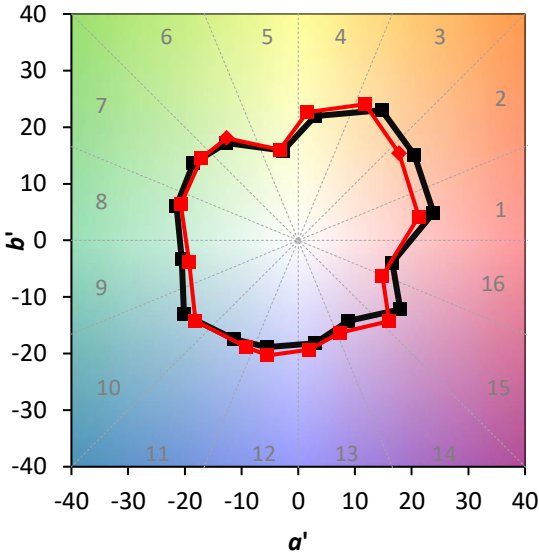
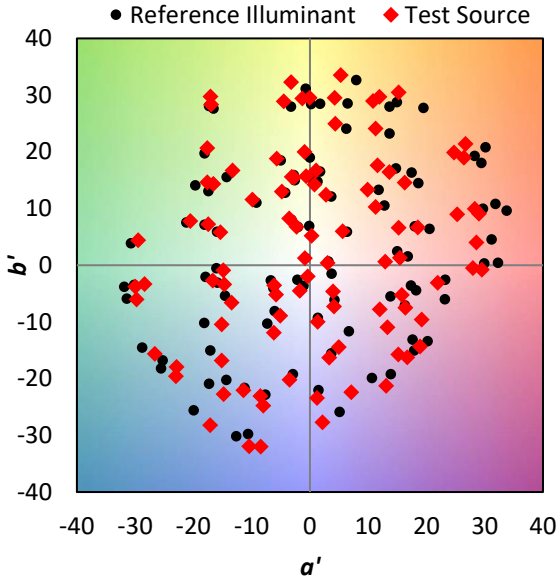
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	252	NR	620	920	NR	750	30	NR	880	1	NR
365	0	NR	495	298	NR	625	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			

**Summary**

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

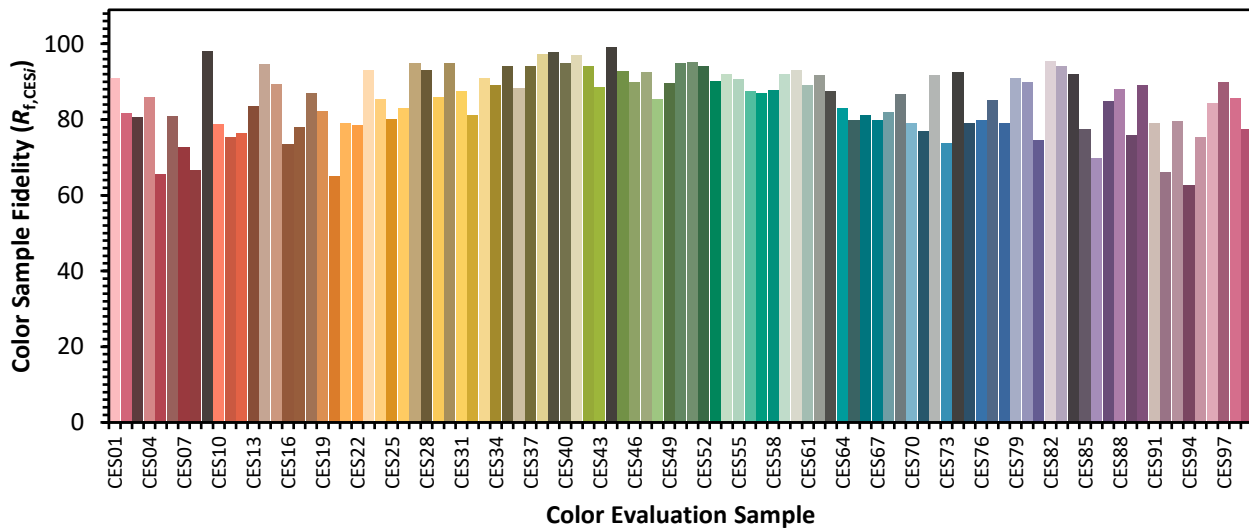


**Color Vector Graphics**

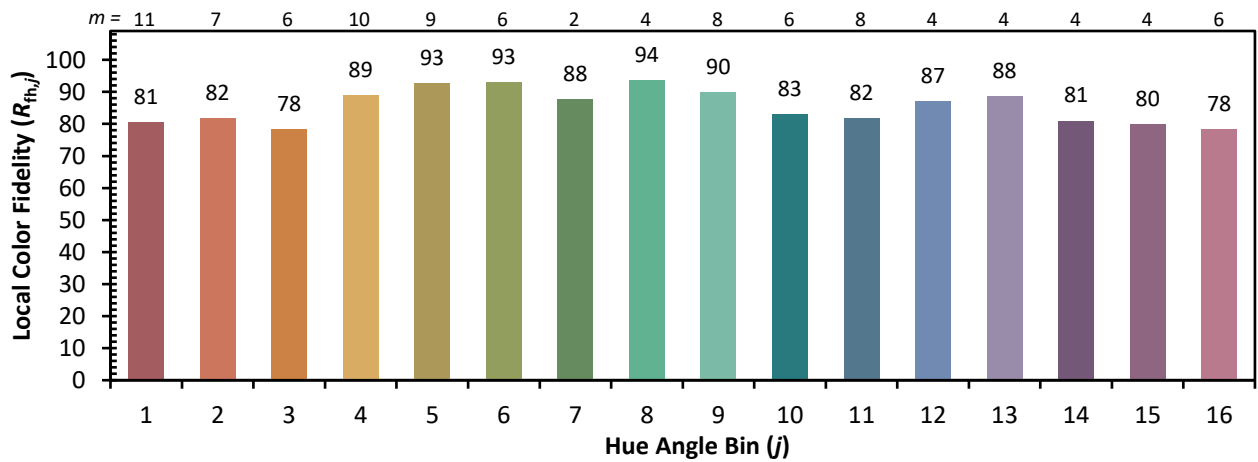
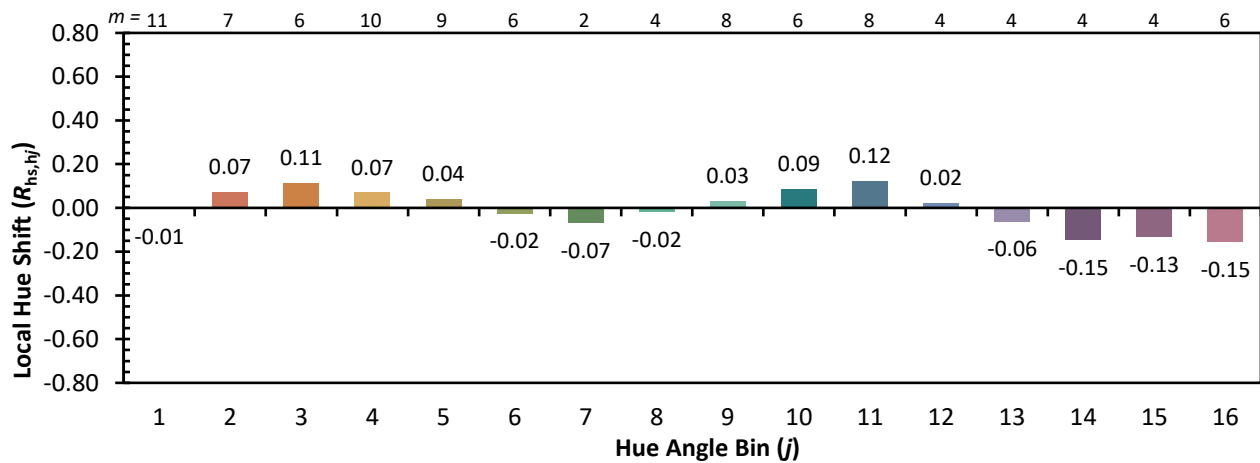
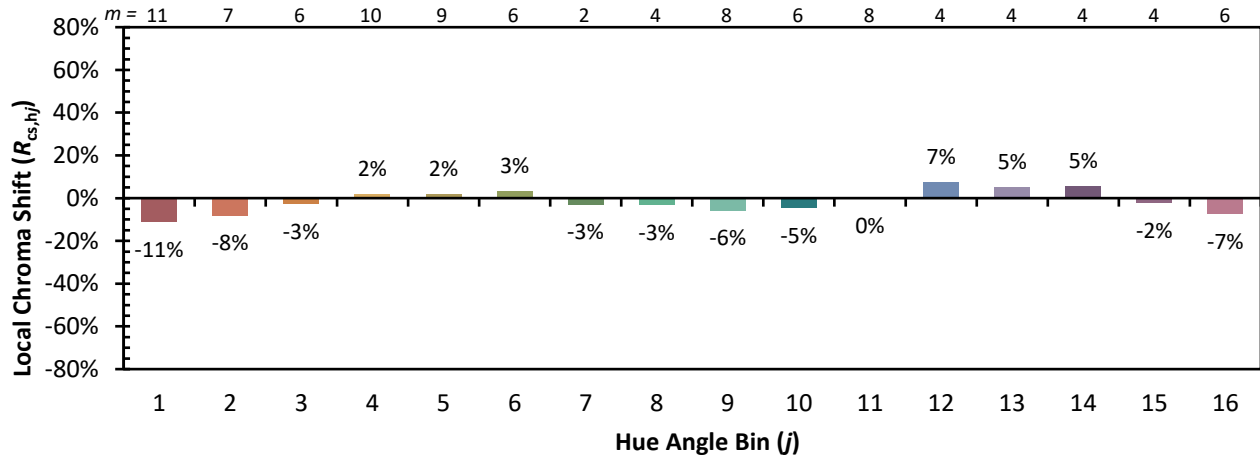


Individual Sample Fidelity Index ( $R_{f,i}$ )

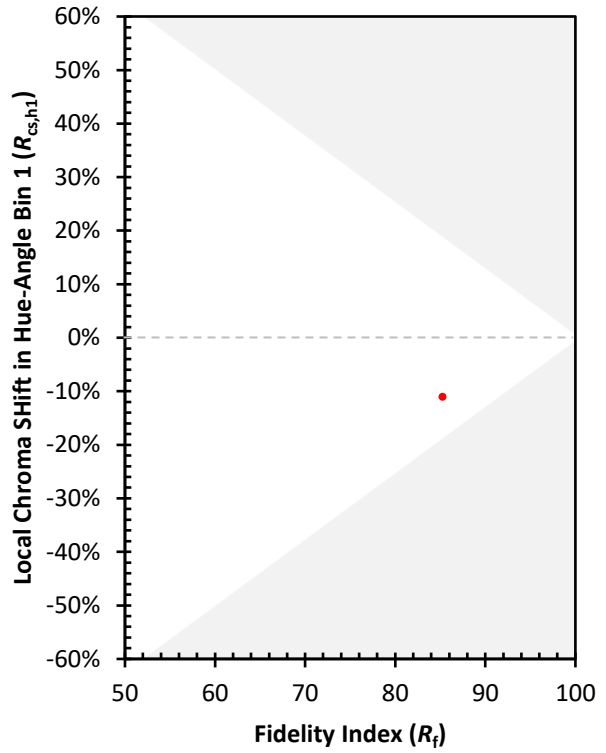
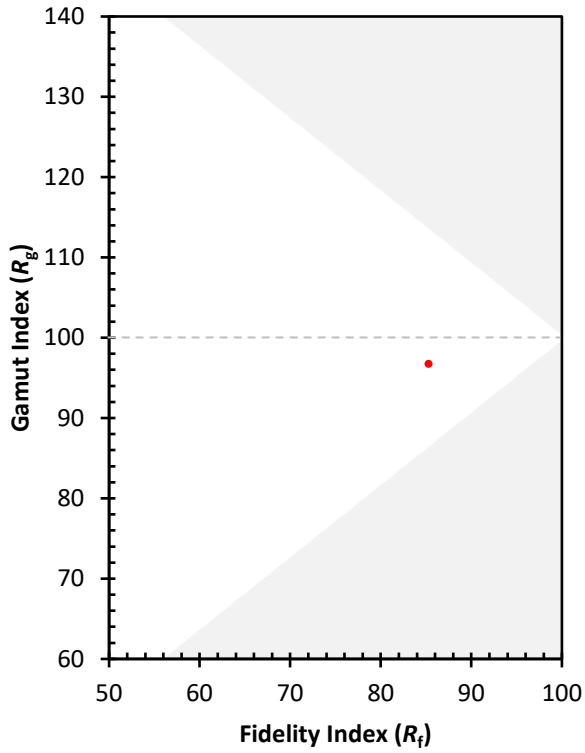
CES01 = 86	CES26 = 83	CES51 = 95	CES76 = 80
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 86	CES54 = 92	CES79 = 91
CES05 = 49	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 87	CES56 = 88	CES81 = 74
CES07 = 42	CES32 = 81	CES57 = 87	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)