

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: P1449766

Luminaire Tested: **AXCS2ARL-GRF-W**

Issue Date: 5/12/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449766  
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: AXCS2ARL-GRF-W  
Description: 2A 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: 2233 lumens  
Efficiency: N/A  
Efficacy: 144.1 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 - G2

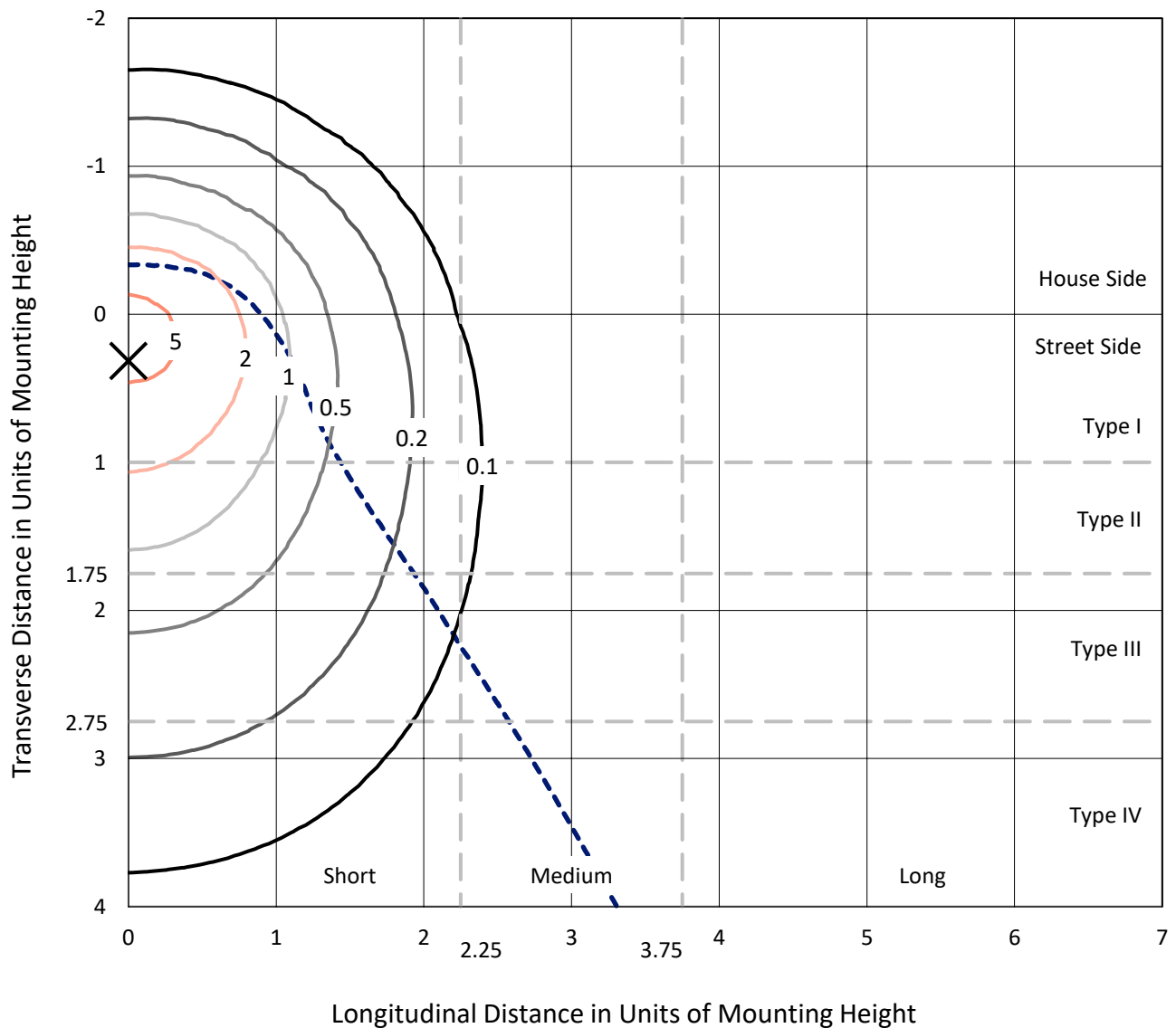
Input Watts (W): 15.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

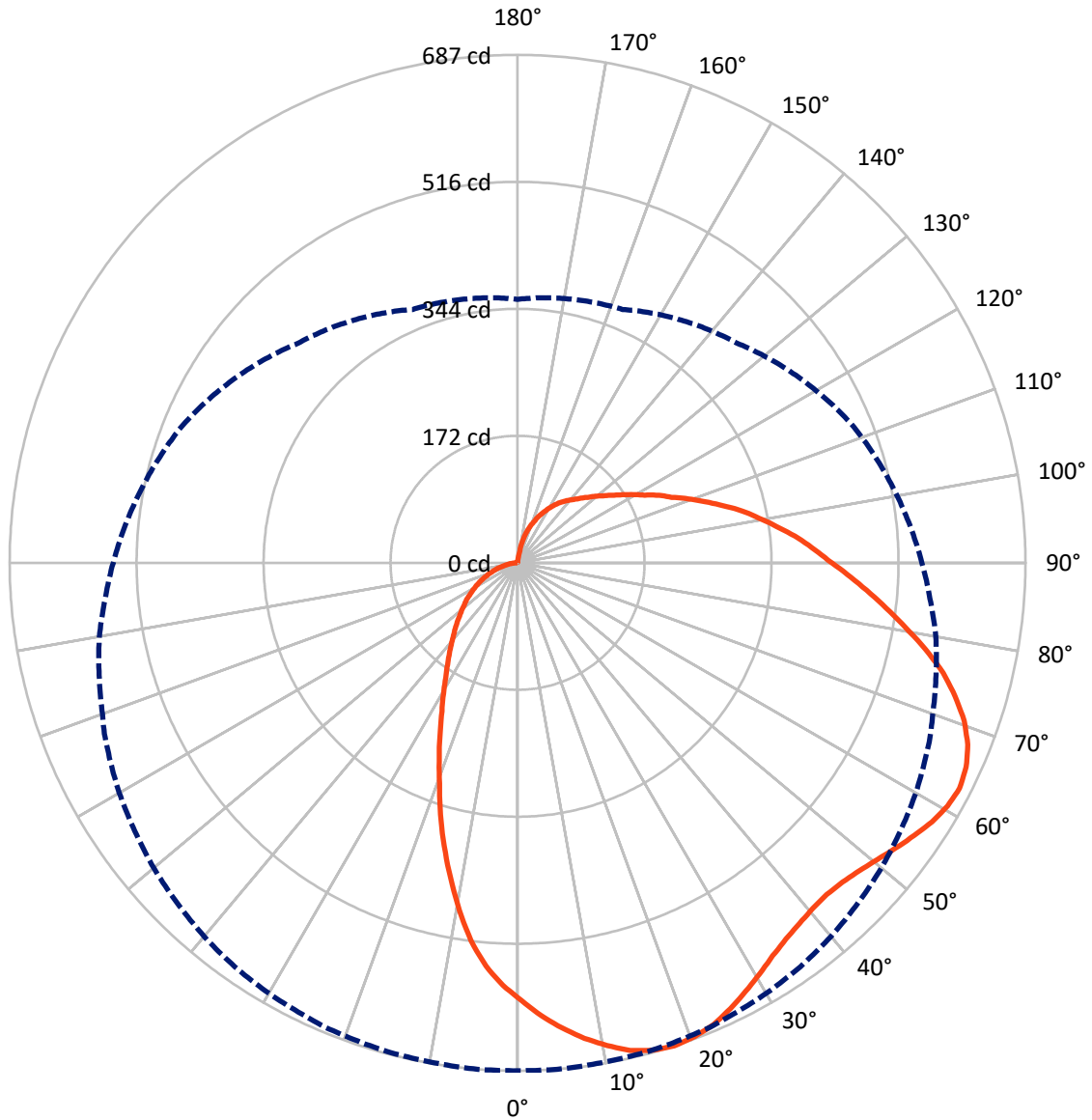
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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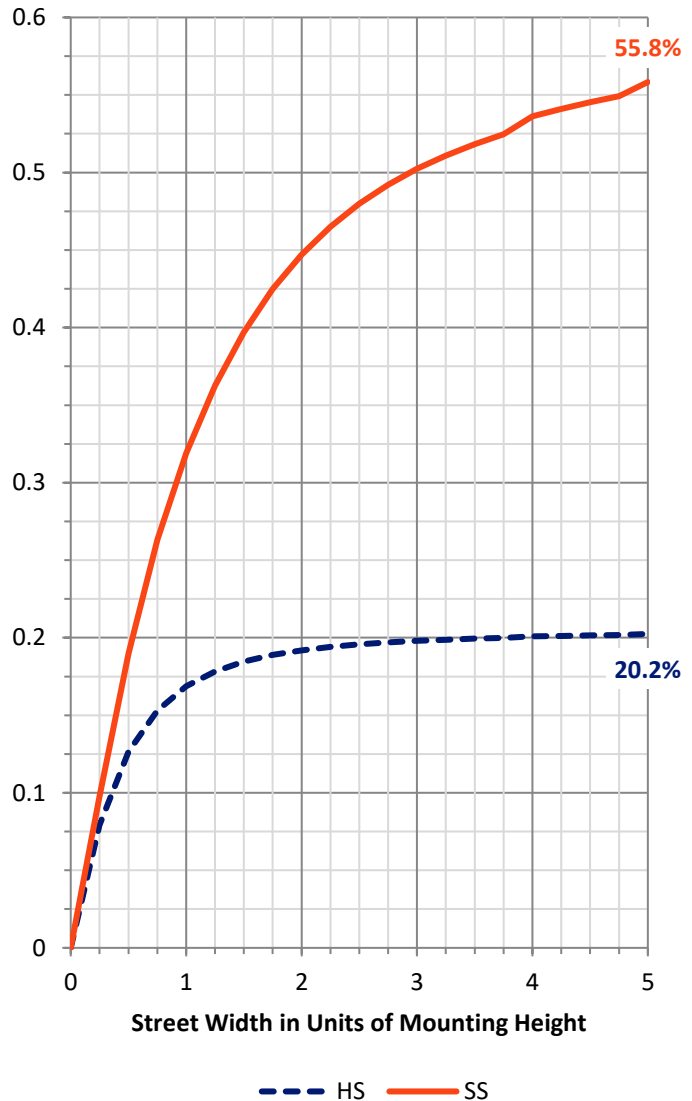
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	459.8	31.4	491.2
	% Fixture	20.6	1.4	22.0
<b>Street Side</b>	Lumens	1351.7	390.0	1741.8
	% Fixture	60.5	17.5	78.0
<b>Total</b>	Lumens	1811.5	421.5	2233.0
	% Fixture	81.1	18.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	2.5
10°-20°	155.1	6.9
20°-30°	221.6	9.9
30°-40°	252.3	11.3
40°-50°	259.6	11.6
50°-60°	257.1	11.5
60°-70°	243.3	10.9
70°-80°	207.3	9.3
80°-90°	159.4	7.1
90°-100°	126.1	5.6
100°-110°	99.1	4.4
110°-120°	72.8	3.3
120°-130°	51.6	2.3
130°-140°	35.4	1.6
140°-150°	22.0	1.0
150°-160°	11.1	0.5
160°-170°	3.2	0.1
170°-180°	0.2	0.0
0°-90°	1811.5	81.1
0°-180°	2233.0	100.0

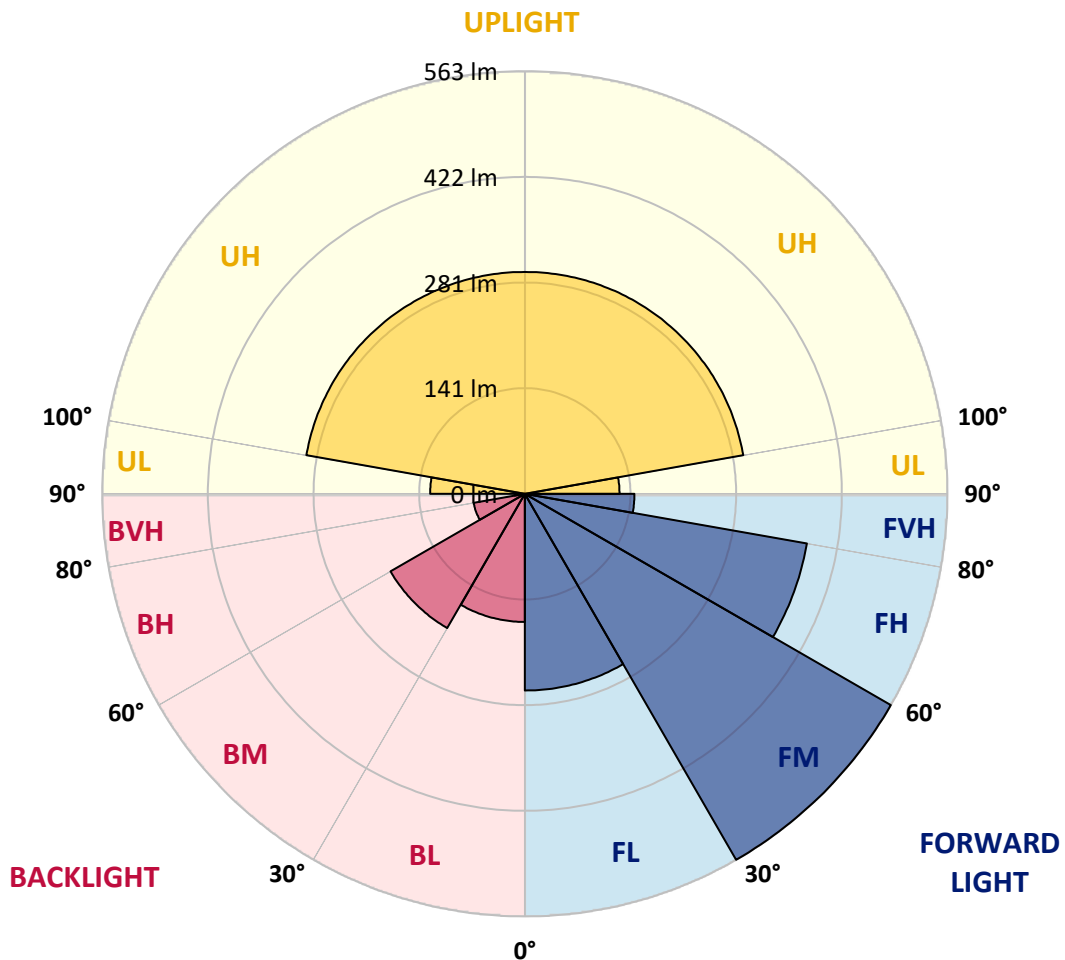


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.9	11.7			
FM (30°-60°)	562.6	25.2			
FH (60°-80°)	381.4	17.1			G0/660
FVH (80°-90°)	145.8	6.5			G2/225
BL (0°-30°)	170.6	7.6	B1/500		
BM (30°-60°)	206.4	9.2	B0/220		
BH (60°-80°)	69.2	3.1	B0/110		G0/110
BVH (80°-90°)	13.6	0.6			G1/100
UL (90°-100°)	126.1	5.6		U3/500	
UH (100°-180°)	295.4	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°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	613.7	613.7	613.7	612.3	612.3	612.3	612.3	612.3	609.4	609.4	608.0
5°	632.5	632.5	632.5	631.1	631.1	629.6	628.2	626.7	625.3	622.4	621.0
7.5°	649.8	648.4	648.4	647.0	645.5	645.5	644.1	641.2	638.3	634.0	631.1
10°	664.3	664.3	662.8	661.4	659.9	658.5	657.1	652.7	648.4	644.1	639.7
12.5°	677.3	675.8	675.8	672.9	670.1	668.6	667.2	664.3	658.5	652.7	645.5
15°	684.5	684.5	683.1	680.2	677.3	675.8	674.4	670.1	664.3	657.1	649.8
17.5°	687.4	687.4	685.9	684.5	681.6	680.2	677.3	672.9	667.2	659.9	651.3
20°	684.5	684.5	683.1	681.6	680.2	677.3	675.8	671.5	665.7	658.5	649.8
22.5°	678.7	678.7	677.3	675.8	672.9	671.5	670.1	665.7	659.9	652.7	644.1
25°	668.6	667.2	667.2	665.7	662.8	661.4	659.9	655.6	649.8	644.1	635.4
27.5°	657.1	655.6	654.2	652.7	651.3	648.4	647.0	644.1	638.3	631.1	622.4
30°	645.5	644.1	644.1	641.2	638.3	636.8	634.0	629.6	623.8	615.2	608.0
32.5°	634.0	634.0	631.1	629.6	625.3	622.4	621.0	613.7	608.0	599.3	589.2
35°	625.3	625.3	622.4	619.5	613.7	610.8	608.0	599.3	592.1	582.0	570.4
37.5°	619.5	618.1	615.2	609.4	603.6	600.7	596.4	586.3	576.2	564.6	553.1
40°	615.2	613.7	609.4	605.1	596.4	592.1	586.3	574.7	561.8	547.3	532.9
42.5°	613.7	612.3	608.0	600.7	590.6	584.9	577.6	563.2	548.8	531.4	514.1
45°	616.6	613.7	608.0	599.3	586.3	579.1	571.9	554.5	535.8	517.0	496.8
47.5°	622.4	619.5	612.3	602.2	587.7	577.6	569.0	548.8	525.6	504.0	479.4
50°	631.1	626.7	619.5	606.5	589.2	579.1	567.5	543.0	517.0	491.0	465.0
52.5°	641.2	636.8	628.2	613.7	593.5	582.0	569.0	540.1	511.2	480.9	450.6
55°	651.3	648.4	636.8	621.0	597.9	584.9	570.4	538.6	505.4	470.8	437.6
57.5°	661.4	657.1	647.0	628.2	603.6	589.2	571.9	537.2	499.7	462.1	426.0
60°	668.6	664.3	652.7	632.5	606.5	589.2	571.9	534.3	493.9	453.4	413.0
62.5°	671.5	665.7	654.2	634.0	605.1	589.2	570.4	530.0	486.7	441.9	401.5
65°	667.2	662.8	651.3	631.1	600.7	583.4	564.6	522.8	478.0	431.8	388.5
67.5°	657.1	652.7	641.2	621.0	592.1	573.3	554.5	511.2	465.0	418.8	374.0
70°	641.2	638.3	625.3	606.5	576.2	558.9	540.1	496.8	450.6	404.3	359.6
72.5°	619.5	616.6	605.1	584.9	557.4	540.1	521.3	479.4	434.7	388.5	342.2
75°	595.0	589.2	577.6	560.3	534.3	517.0	499.7	459.2	415.9	369.7	326.4
77.5°	564.6	561.8	550.2	534.3	506.9	492.4	475.1	436.1	394.2	350.9	309.0
80°	532.9	531.4	522.8	504.0	480.9	466.4	449.1	413.0	372.6	330.7	290.3
82.5°	502.5	501.1	492.4	475.1	452.0	439.0	424.6	388.5	350.9	311.9	274.4
85°	473.7	470.8	463.6	447.7	426.0	413.0	398.6	365.4	329.3	294.6	257.0
87.5°	446.2	443.3	434.7	420.2	401.5	387.0	374.0	343.7	310.5	277.3	244.1
90°	420.2	418.8	410.1	398.6	378.4	366.8	353.8	326.4	294.6	262.8	231.1
92.5°	398.6	397.1	389.9	375.5	358.1	348.0	335.0	310.5	281.6	251.3	223.8
95°	376.9	374.0	366.8	356.7	339.4	330.7	317.7	294.6	268.6	241.2	213.7
97.5°	353.8	352.4	346.6	335.0	320.6	311.9	301.8	278.7	255.6	231.1	206.5
100°	332.1	330.7	326.4	316.3	301.8	293.2	284.5	264.3	242.6	219.5	196.4
102.5°	311.9	309.0	304.7	294.6	283.0	274.4	267.2	248.4	228.2	206.5	187.7
105°	288.8	287.4	281.6	275.8	262.8	257.0	248.4	232.5	213.7	195.0	176.2
107.5°	267.2	265.7	261.4	255.6	245.5	238.3	231.1	216.6	200.7	183.4	166.1
110°	246.9	245.5	242.6	236.8	226.7	222.4	216.6	203.6	189.2	173.3	157.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	226.7	226.7	223.8	219.5	210.8	205.1	200.7	189.2	176.2	163.2	148.7
115°	212.3	209.4	207.9	202.2	196.4	192.1	187.7	176.2	166.1	153.1	141.5
117.5°	195.0	195.0	192.1	187.7	182.0	177.6	174.7	164.6	154.5	144.4	132.9
120°	182.0	180.5	179.1	174.7	169.0	166.1	163.2	154.5	145.9	135.7	125.6
122.5°	169.0	167.5	166.1	163.2	158.8	156.0	153.1	145.9	137.2	128.5	119.9
125°	157.4	157.4	156.0	153.1	148.7	145.9	143.0	137.2	130.0	121.3	112.6
127.5°	147.3	147.3	145.9	143.0	140.1	137.2	134.3	130.0	122.7	115.5	108.3
130°	138.6	137.2	137.2	134.3	131.4	128.5	127.1	121.3	115.5	109.8	102.5
132.5°	130.0	130.0	128.5	125.6	124.2	121.3	119.9	115.5	109.8	104.0	96.8
135°	122.7	122.7	121.3	119.9	117.0	115.5	114.1	109.8	104.0	98.2	92.4
137.5°	115.5	115.5	114.1	112.6	111.2	109.8	106.9	104.0	98.2	92.4	86.6
140°	109.8	109.8	108.3	106.9	104.0	102.5	101.1	98.2	93.9	88.1	82.3
142.5°	104.0	104.0	102.5	101.1	98.2	96.8	95.3	92.4	88.1	82.3	76.5
145°	98.2	96.8	96.8	95.3	92.4	91.0	89.5	86.6	82.3	76.5	70.8
147.5°	91.0	91.0	89.5	88.1	85.2	83.8	82.3	79.4	75.1	70.8	65.0
150°	83.8	83.8	82.3	80.9	79.4	78.0	76.5	73.6	69.3	65.0	59.2
152.5°	76.5	76.5	75.1	73.6	72.2	70.8	69.3	66.4	62.1	59.2	54.9
155°	69.3	69.3	67.9	66.4	65.0	63.5	62.1	59.2	56.3	52.0	49.1
157.5°	60.7	60.7	60.7	59.2	57.8	56.3	54.9	52.0	49.1	46.2	43.3
160°	53.4	53.4	52.0	52.0	50.5	49.1	47.7	46.2	43.3	40.4	37.5
162.5°	46.2	44.8	44.8	43.3	43.3	41.9	40.4	39.0	36.1	34.7	27.4
165°	37.5	37.5	37.5	36.1	34.7	34.7	33.2	30.3	24.5	20.2	15.9
167.5°	26.0	26.0	24.5	21.7	20.2	18.8	17.3	14.4	13.0	11.6	11.6
170°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	8.7	8.7
172.5°	7.2	7.2	7.2	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3
175°	1.4	1.4	1.4	1.4	2.9	1.4	2.9	2.9	1.4	1.4	1.4
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°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	606.5	603.6	603.6	600.7	600.7	599.3	597.9	595.0	593.5	592.1	582.0
5°	618.1	615.2	610.8	608.0	606.5	603.6	600.7	596.4	593.5	589.2	571.9
7.5°	626.7	622.4	616.6	612.3	609.4	606.5	600.7	596.4	590.6	584.9	560.3
10°	634.0	628.2	622.4	615.2	612.3	608.0	600.7	593.5	586.3	577.6	545.9
12.5°	639.7	632.5	623.8	615.2	612.3	608.0	597.9	589.2	580.5	570.4	528.5
15°	642.6	634.0	623.8	613.7	609.4	603.6	593.5	582.0	571.9	560.3	509.8
17.5°	642.6	632.5	622.4	610.8	605.1	597.9	586.3	574.7	560.3	547.3	489.5
20°	639.7	628.2	616.6	603.6	597.9	590.6	577.6	563.2	548.8	532.9	466.4
22.5°	634.0	622.4	609.4	595.0	587.7	580.5	566.1	550.2	534.3	517.0	441.9
25°	623.8	612.3	597.9	584.9	576.2	567.5	551.6	534.3	517.0	498.2	415.9
27.5°	612.3	599.3	586.3	570.4	561.8	553.1	534.3	517.0	498.2	479.4	391.3
30°	596.4	583.4	569.0	553.1	544.4	535.8	517.0	498.2	478.0	456.3	366.8
32.5°	579.1	566.1	550.2	534.3	524.2	515.5	496.8	476.5	456.3	434.7	339.4
35°	560.3	545.9	530.0	512.7	504.0	493.9	473.7	453.4	433.2	411.6	314.8
37.5°	538.6	524.2	508.3	491.0	480.9	472.2	450.6	430.3	408.7	385.6	290.3
40°	518.4	502.5	485.2	467.9	457.8	447.7	427.5	405.8	382.7	361.0	268.6
42.5°	496.8	479.4	462.1	443.3	433.2	421.7	401.5	379.8	358.1	335.0	245.5
45°	476.5	457.8	437.6	418.8	408.7	398.6	375.5	355.2	332.1	310.5	225.3
47.5°	457.8	436.1	415.9	394.2	384.1	374.0	352.4	330.7	309.0	288.8	206.5
50°	439.0	415.9	392.8	371.1	361.0	350.9	327.8	307.6	284.5	264.3	189.2
52.5°	421.7	395.7	371.1	349.5	337.9	327.8	306.1	283.0	262.8	242.6	171.8
55°	405.8	376.9	350.9	326.4	316.3	306.1	283.0	261.4	241.2	220.9	157.4
57.5°	391.3	359.6	332.1	307.6	294.6	284.5	262.8	241.2	220.9	200.7	143.0
60°	376.9	343.7	313.4	287.4	275.8	264.3	242.6	222.4	202.2	183.4	130.0
62.5°	361.0	327.8	296.0	270.0	257.0	245.5	223.8	203.6	183.4	164.6	117.0
65°	346.6	311.9	280.2	252.7	239.7	228.2	206.5	186.3	166.1	148.7	105.4
67.5°	332.1	296.0	264.3	235.4	222.4	210.8	189.2	169.0	150.2	134.3	93.9
70°	317.7	280.2	246.9	220.9	207.9	195.0	173.3	153.1	134.3	118.4	83.8
72.5°	301.8	265.7	233.9	205.1	192.1	180.5	158.8	138.6	119.9	105.4	73.6
75°	285.9	249.8	218.1	190.6	177.6	166.1	143.0	124.2	105.4	91.0	65.0
77.5°	268.6	233.9	203.6	176.2	164.6	151.6	130.0	109.8	92.4	79.4	54.9
80°	254.2	219.5	190.6	163.2	151.6	140.1	117.0	98.2	80.9	69.3	47.7
82.5°	238.3	205.1	176.2	150.2	138.6	127.1	105.4	86.6	69.3	57.8	40.4
85°	223.8	193.5	164.6	140.1	128.5	117.0	96.8	76.5	60.7	50.5	34.7
87.5°	212.3	183.4	156.0	131.4	119.9	109.8	88.1	69.3	53.4	43.3	30.3
90°	202.2	174.7	148.7	125.6	115.5	104.0	83.8	65.0	49.1	40.4	26.0
92.5°	196.4	170.4	145.9	124.2	112.6	102.5	82.3	63.5	47.7	39.0	26.0
95°	189.2	164.6	141.5	119.9	109.8	99.6	79.4	62.1	47.7	39.0	26.0
97.5°	182.0	158.8	137.2	117.0	106.9	96.8	78.0	60.7	46.2	37.5	24.5
100°	174.7	153.1	131.4	112.6	102.5	93.9	75.1	59.2	44.8	36.1	24.5
102.5°	166.1	145.9	127.1	108.3	99.6	89.5	73.6	57.8	44.8	36.1	24.5
105°	157.4	138.6	121.3	104.0	95.3	86.6	70.8	54.9	43.3	34.7	23.1
107.5°	150.2	132.9	115.5	99.6	91.0	83.8	67.9	53.4	41.9	33.2	23.1
110°	141.5	125.6	111.2	95.3	88.1	80.9	66.4	52.0	40.4	31.8	23.1



REPORT NUMBER: P1449766  
 CATALOG NUMBER: AXCS2ARL-GRF-W

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
112.5°	134.3	119.9	105.4	92.4	83.8	76.5	63.5	50.5	39.0	30.3	21.7
115°	127.1	114.1	101.1	88.1	80.9	73.6	60.7	47.7	36.1	28.9	20.2
117.5°	121.3	108.3	96.8	83.8	76.5	70.8	57.8	46.2	34.7	27.4	20.2
120°	115.5	104.0	92.4	79.4	73.6	67.9	54.9	43.3	33.2	26.0	18.8
122.5°	109.8	98.2	88.1	76.5	70.8	65.0	53.4	41.9	31.8	24.5	17.3
125°	104.0	93.9	83.8	73.6	67.9	62.1	50.5	40.4	30.3	23.1	17.3
127.5°	99.6	89.5	79.4	69.3	63.5	59.2	47.7	37.5	28.9	21.7	15.9
130°	93.9	85.2	76.5	66.4	60.7	56.3	44.8	36.1	26.0	20.2	15.9
132.5°	89.5	80.9	72.2	62.1	57.8	52.0	43.3	33.2	24.5	18.8	14.4
135°	85.2	76.5	67.9	59.2	53.4	49.1	40.4	31.8	23.1	18.8	13.0
137.5°	79.4	72.2	63.5	54.9	50.5	46.2	37.5	28.9	21.7	17.3	13.0
140°	75.1	67.9	59.2	52.0	47.7	43.3	34.7	27.4	18.8	15.9	11.6
142.5°	69.3	62.1	54.9	47.7	44.8	40.4	31.8	24.5	17.3	14.4	10.1
145°	65.0	59.2	52.0	44.8	40.4	37.5	30.3	23.1	15.9	13.0	10.1
147.5°	59.2	53.4	47.7	40.4	37.5	33.2	27.4	20.2	13.0	11.6	8.7
150°	54.9	49.1	43.3	37.5	33.2	30.3	24.5	18.8	11.6	10.1	7.2
152.5°	49.1	44.8	39.0	33.2	28.9	26.0	21.7	15.9	10.1	8.7	7.2
155°	44.8	40.4	34.7	27.4	24.5	23.1	18.8	14.4	8.7	7.2	5.8
157.5°	39.0	34.7	27.4	23.1	21.7	20.2	15.9	11.6	7.2	5.8	4.3
160°	33.2	26.0	20.2	18.8	18.8	17.3	13.0	8.7	5.8	5.8	4.3
162.5°	21.7	17.3	17.3	15.9	14.4	13.0	10.1	7.2	4.3	4.3	2.9
165°	14.4	14.4	13.0	11.6	11.6	10.1	7.2	4.3	4.3	2.9	2.9
167.5°	11.6	10.1	10.1	8.7	7.2	5.8	4.3	2.9	2.9	2.9	1.4
170°	7.2	7.2	5.8	4.3	4.3	4.3	2.9	1.4	1.4	1.4	1.4
172.5°	4.3	4.3	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	0.0
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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: P1449766  
 CATALOG NUMBER: AXCS2ARL-GRF-W

**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
0°	592.1	592.1	592.1
2.5°	574.7	570.4	571.9
5°	557.4	547.3	547.3
7.5°	537.2	519.9	515.5
10°	511.2	483.8	476.5
12.5°	483.8	449.1	436.1
15°	452.0	408.7	395.7
17.5°	420.2	371.1	356.7
20°	388.5	335.0	316.3
22.5°	356.7	300.4	283.0
25°	326.4	270.0	252.7
27.5°	297.5	242.6	225.3
30°	270.0	219.5	203.6
32.5°	246.9	199.3	183.4
35°	223.8	179.1	167.5
37.5°	203.6	164.6	153.1
40°	187.7	151.6	140.1
42.5°	170.4	138.6	128.5
45°	156.0	127.1	118.4
47.5°	143.0	117.0	108.3
50°	131.4	108.3	99.6
52.5°	121.3	99.6	91.0
55°	109.8	91.0	83.8
57.5°	101.1	82.3	75.1
60°	92.4	75.1	67.9
62.5°	82.3	67.9	60.7
65°	75.1	60.7	53.4
67.5°	66.4	53.4	46.2
70°	59.2	46.2	39.0
72.5°	52.0	39.0	33.2
75°	44.8	33.2	27.4
77.5°	37.5	27.4	20.2
80°	31.8	21.7	15.9
82.5°	26.0	17.3	11.6
85°	21.7	13.0	7.2
87.5°	17.3	8.7	2.9
90°	13.0	2.9	0.0
92.5°	13.0	2.9	0.0
95°	13.0	2.9	0.0
97.5°	13.0	2.9	0.0
100°	13.0	2.9	0.0
102.5°	11.6	2.9	0.0
105°	11.6	2.9	0.0
107.5°	11.6	2.9	0.0
110°	11.6	2.9	0.0



REPORT NUMBER: P1449766  
CATALOG NUMBER: AXCS2ARL-GRF-W

**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
112.5°	11.6	2.9	0.0
115°	10.1	2.9	0.0
117.5°	10.1	2.9	0.0
120°	10.1	1.4	0.0
122.5°	8.7	1.4	0.0
125°	8.7	1.4	0.0
127.5°	8.7	1.4	0.0
130°	7.2	1.4	0.0
132.5°	7.2	1.4	0.0
135°	7.2	1.4	0.0
137.5°	5.8	1.4	0.0
140°	5.8	0.0	0.0
142.5°	4.3	0.0	0.0
145°	4.3	0.0	0.0
147.5°	4.3	0.0	0.0
150°	2.9	0.0	0.0
152.5°	2.9	0.0	0.0
155°	2.9	0.0	0.0
157.5°	1.4	0.0	0.0
160°	1.4	0.0	0.0
162.5°	1.4	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

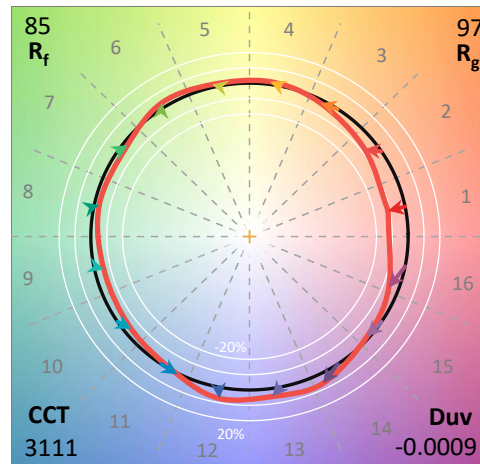
**Test Information**

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**

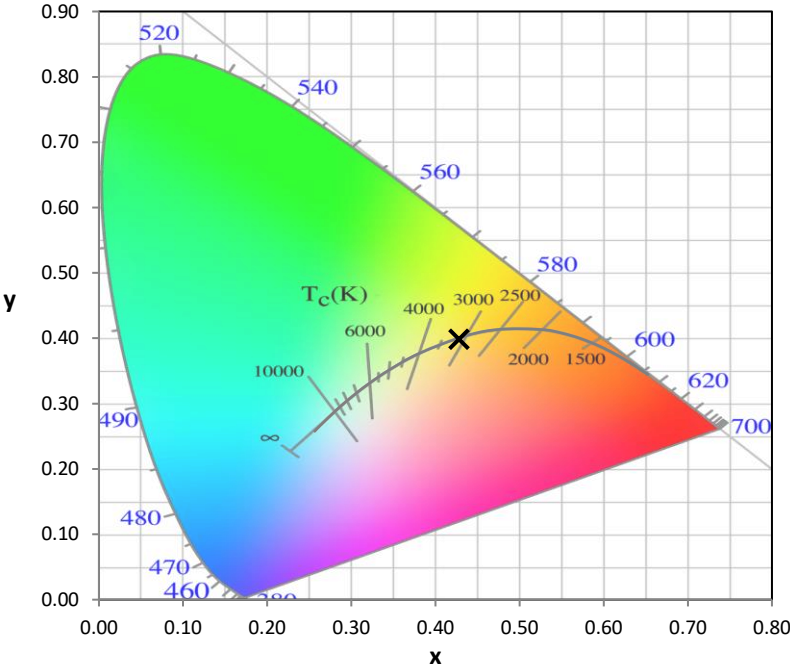
Stabilization Time: 52M  
 Operation Time: 1H 52M  
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2512-637-1

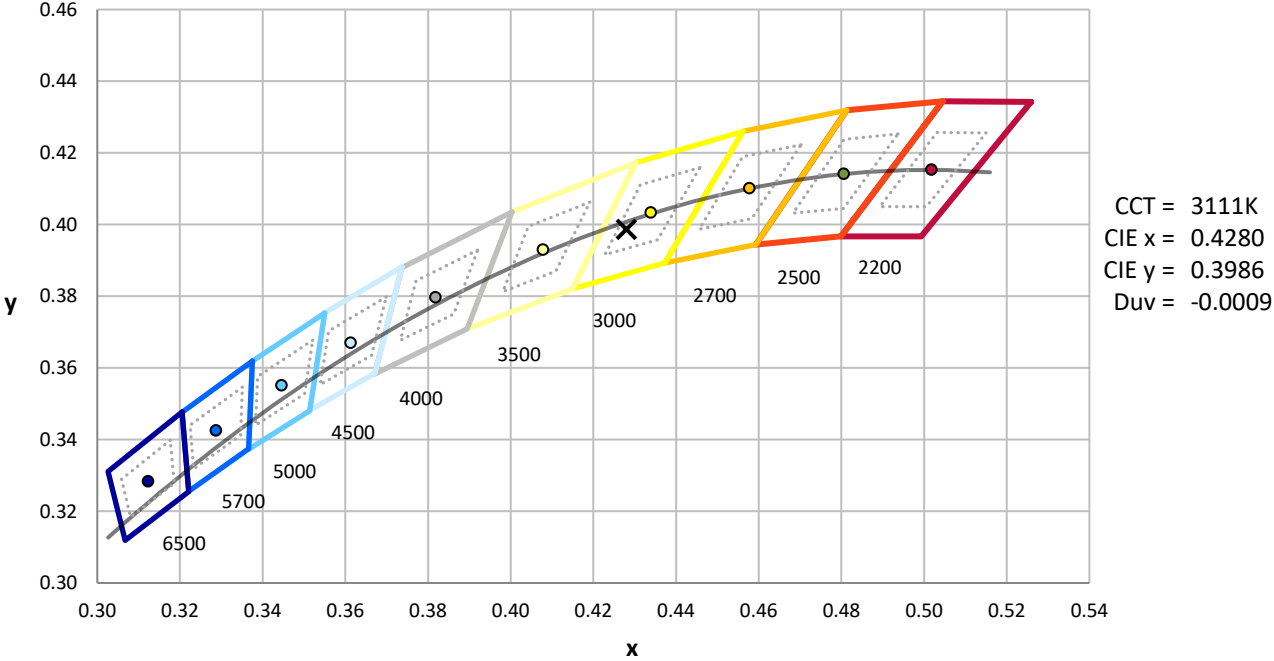
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

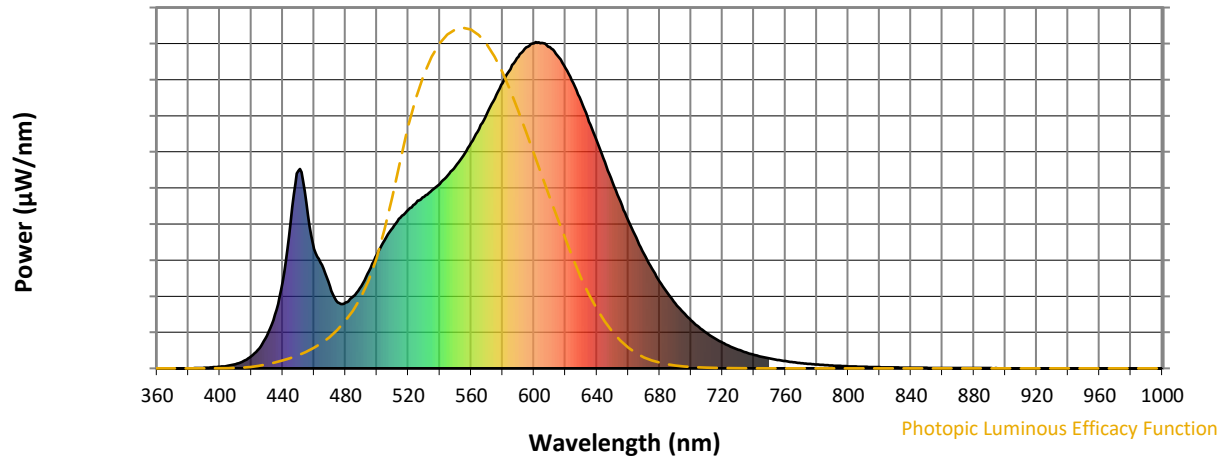


CCT = 3111K  
 CIE x = 0.4280  
 CIE y = 0.3986  
 Duv = -0.0009

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

**Photopic Flux vs. Wavelength**

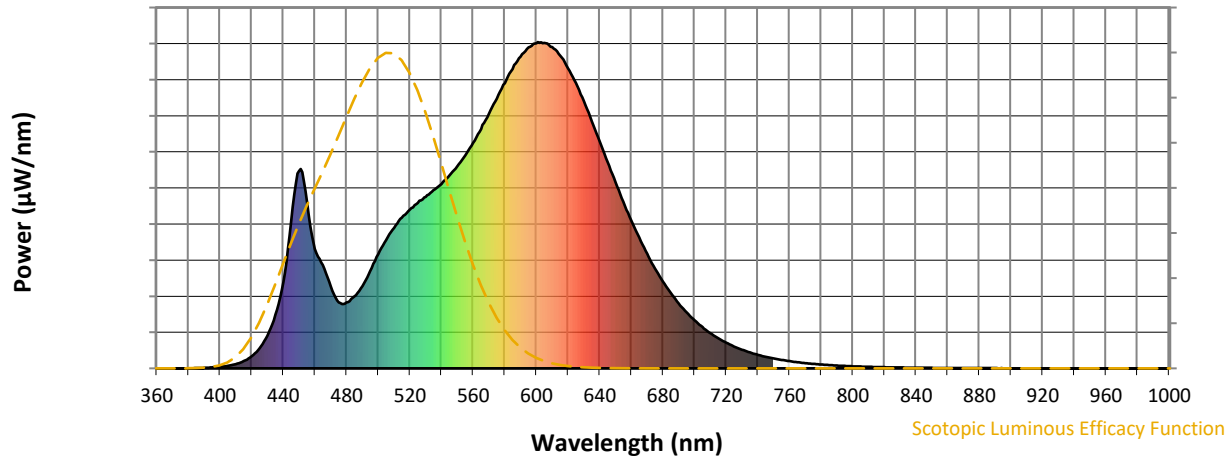


**Photopic Lumens: NR**

$\lambda$ (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



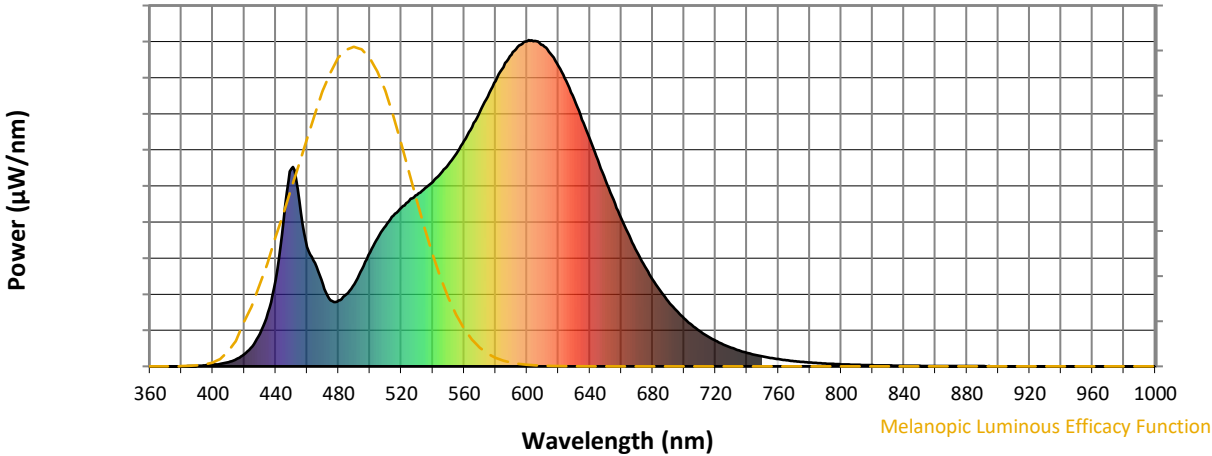
Scotopic Lumens: NR

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



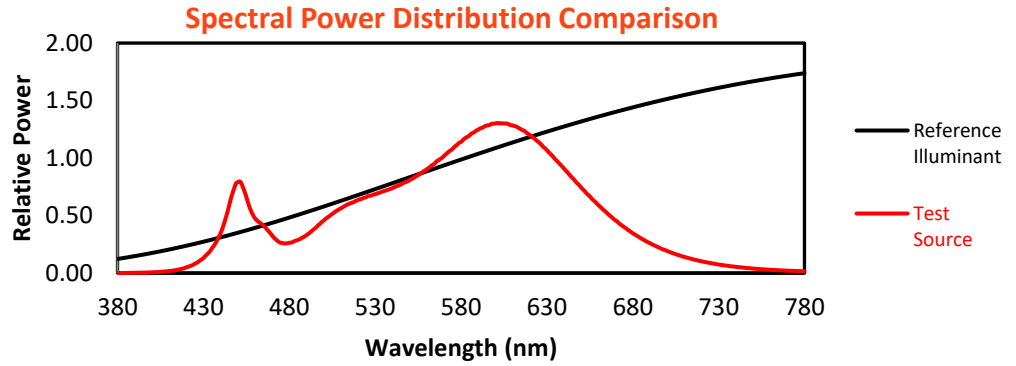
Melanopic Lumens: NR

M/P: 2.73

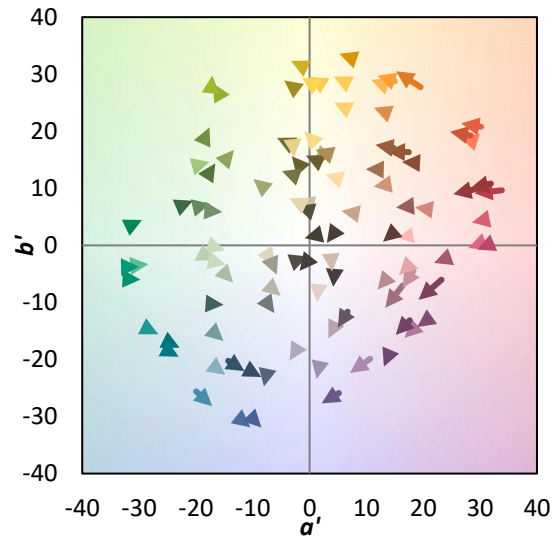
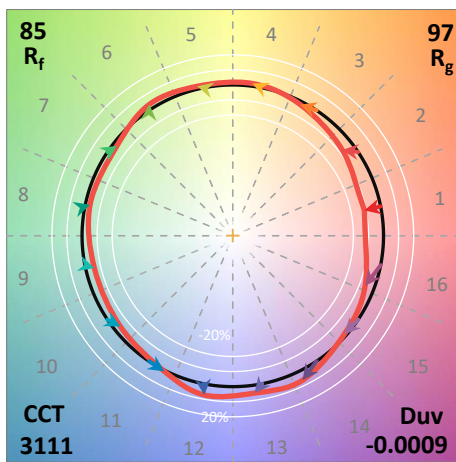
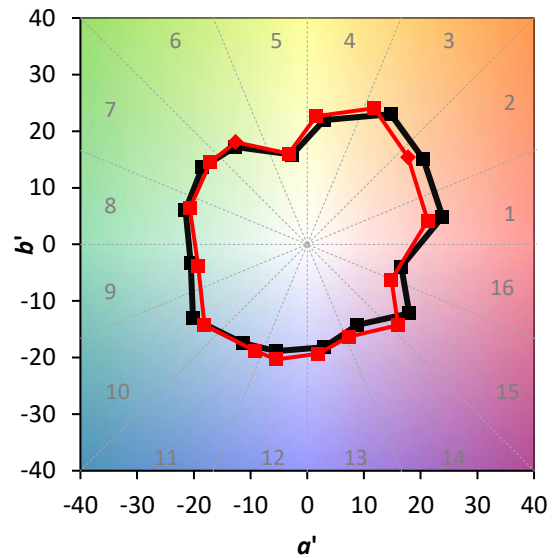
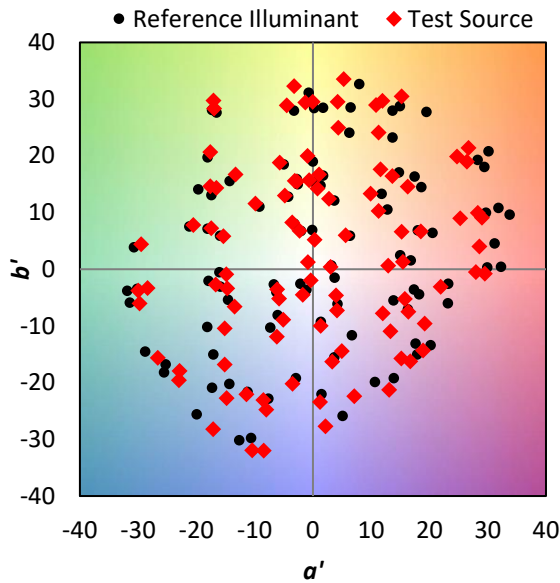
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	252	NR	620	920	NR	750	30	NR	880	1	NR
365	0	NR	495	298	NR	625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

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

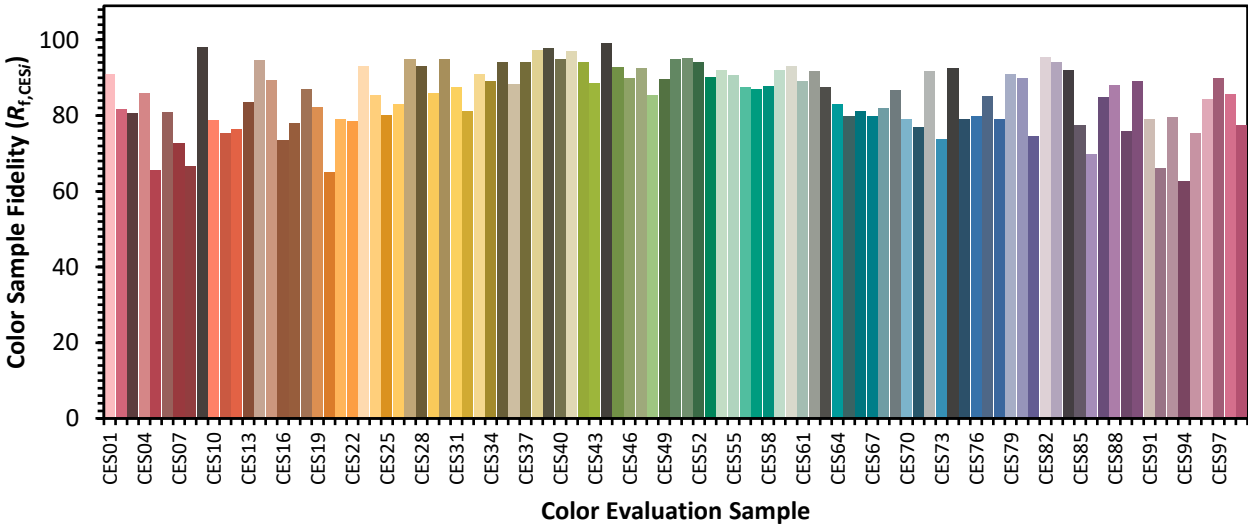


**Color Vector Graphics**

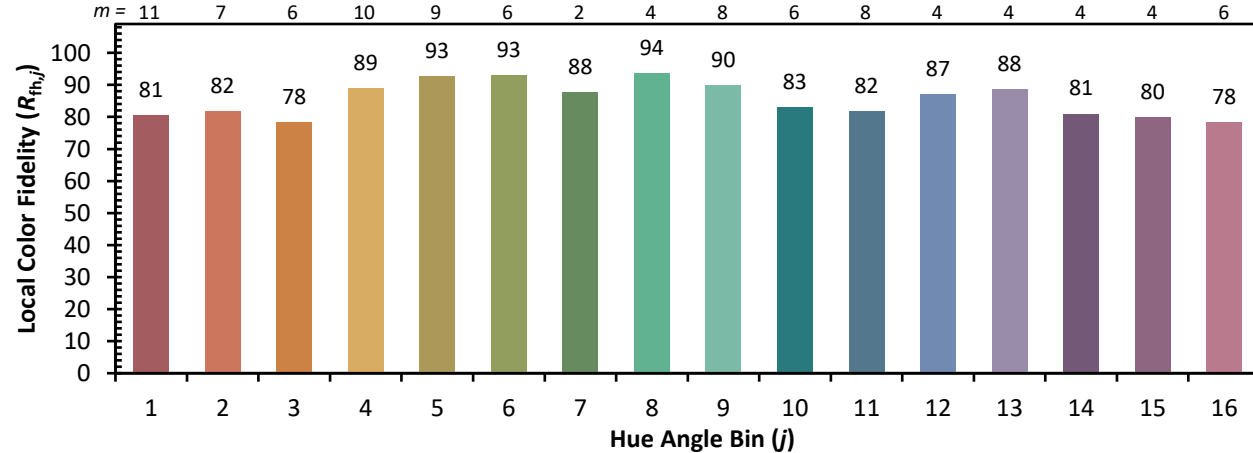
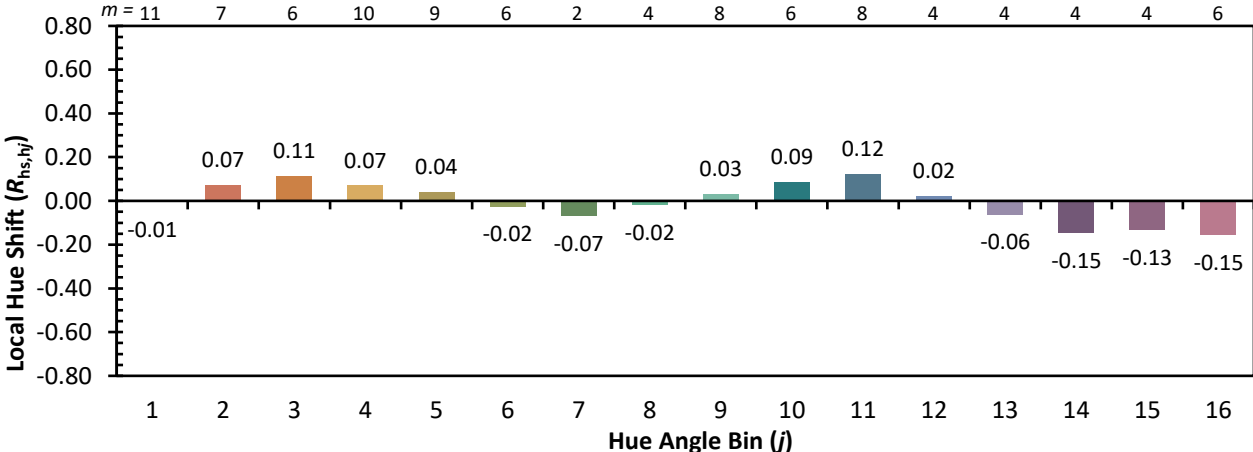
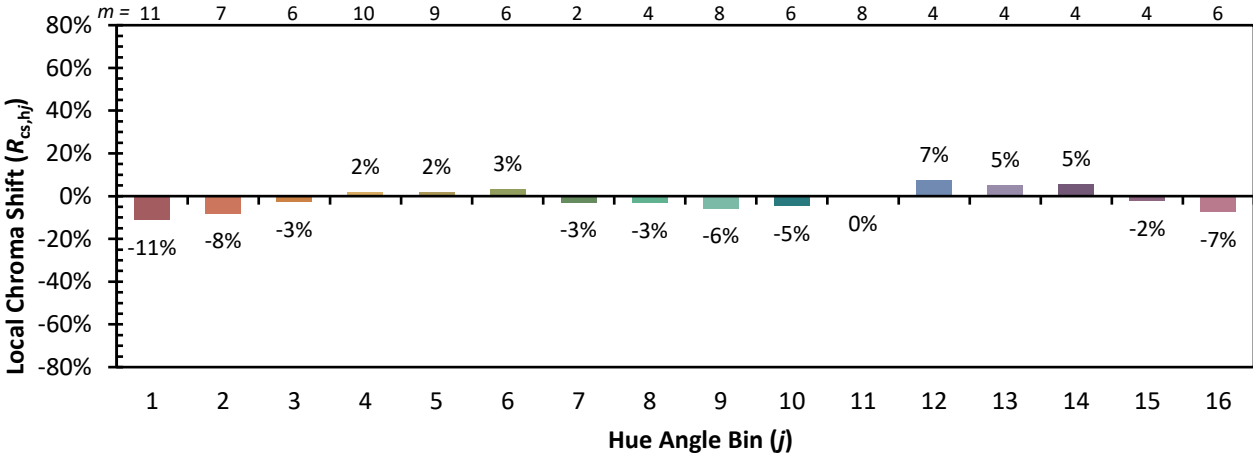


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

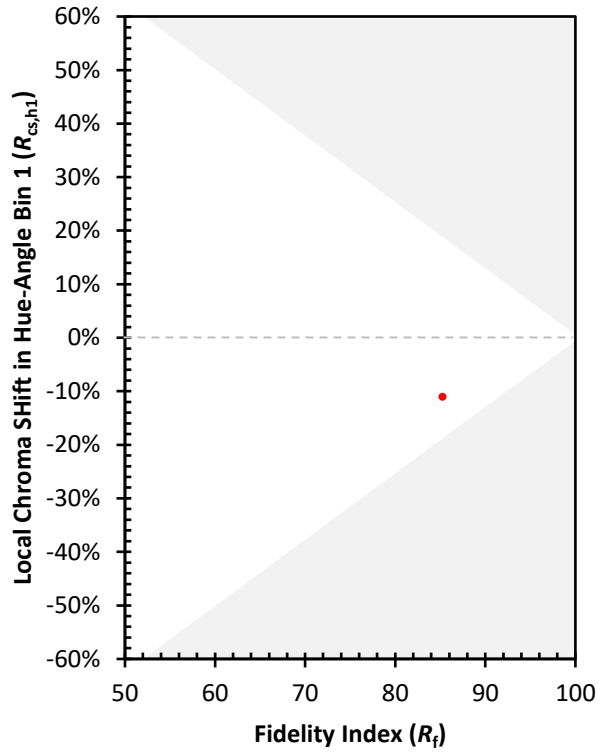
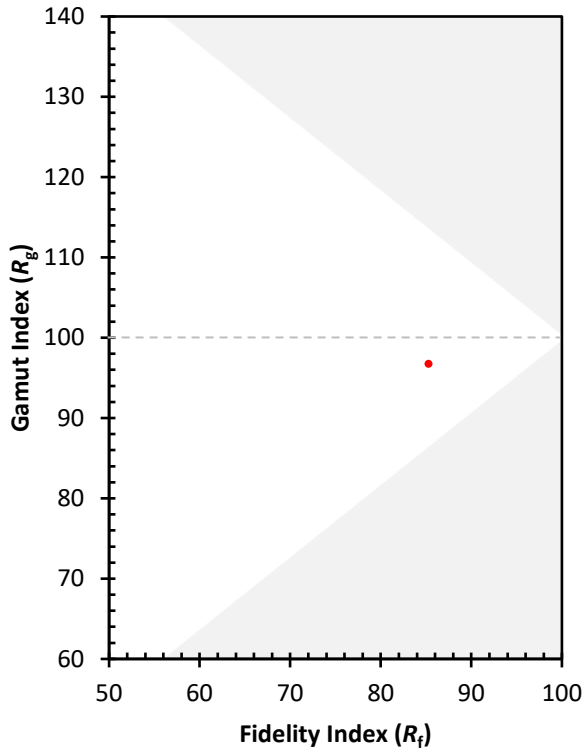
CES01 = 86	CES26 = 83	CES51 = 95	CES76 = 80
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 86	CES54 = 92	CES79 = 91
CES05 = 49	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 87	CES56 = 88	CES81 = 74
CES07 = 42	CES32 = 81	CES57 = 87	CES82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