

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: P1449778

Luminaire Tested: **AXCS3ARL-GRF-W**

Issue Date: 5/12/2026

Test Information

Test Method: LM-79-08
Report Number: P1449778
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: AXCS3ARL-GRF-W
Description: 3A 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: 3062 lumens
Efficiency: N/A
Efficacy: 133.1 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

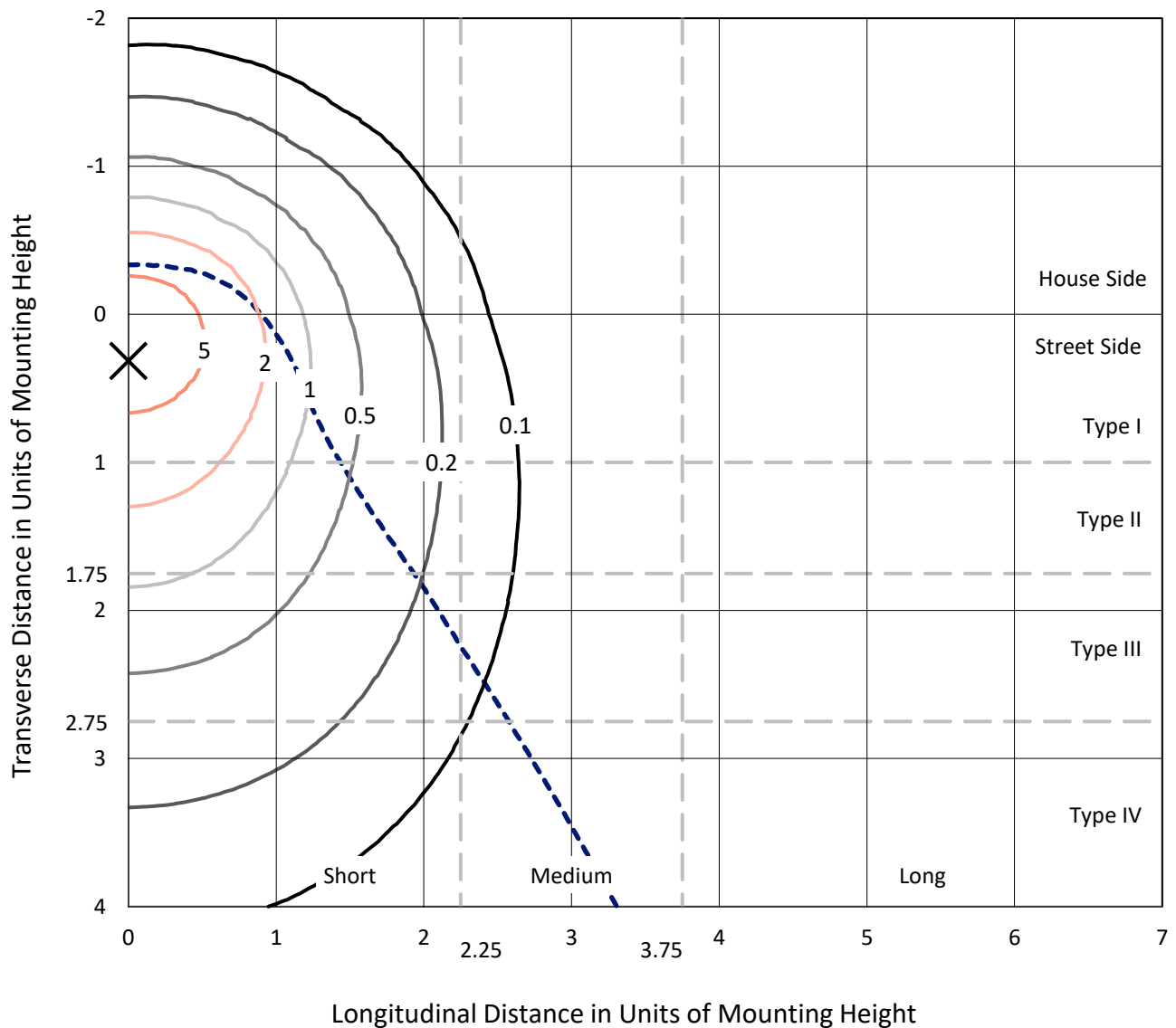
Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

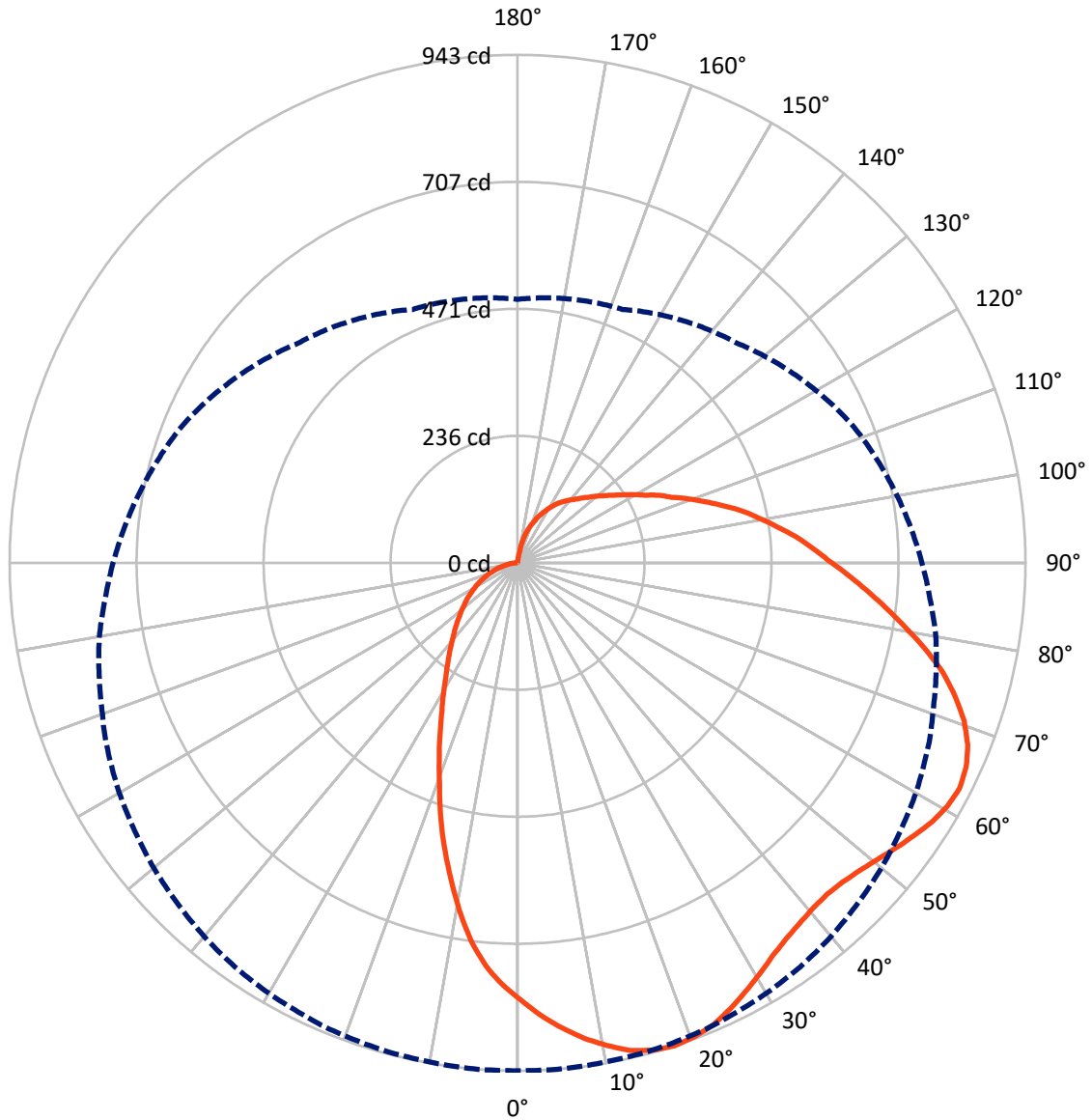
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 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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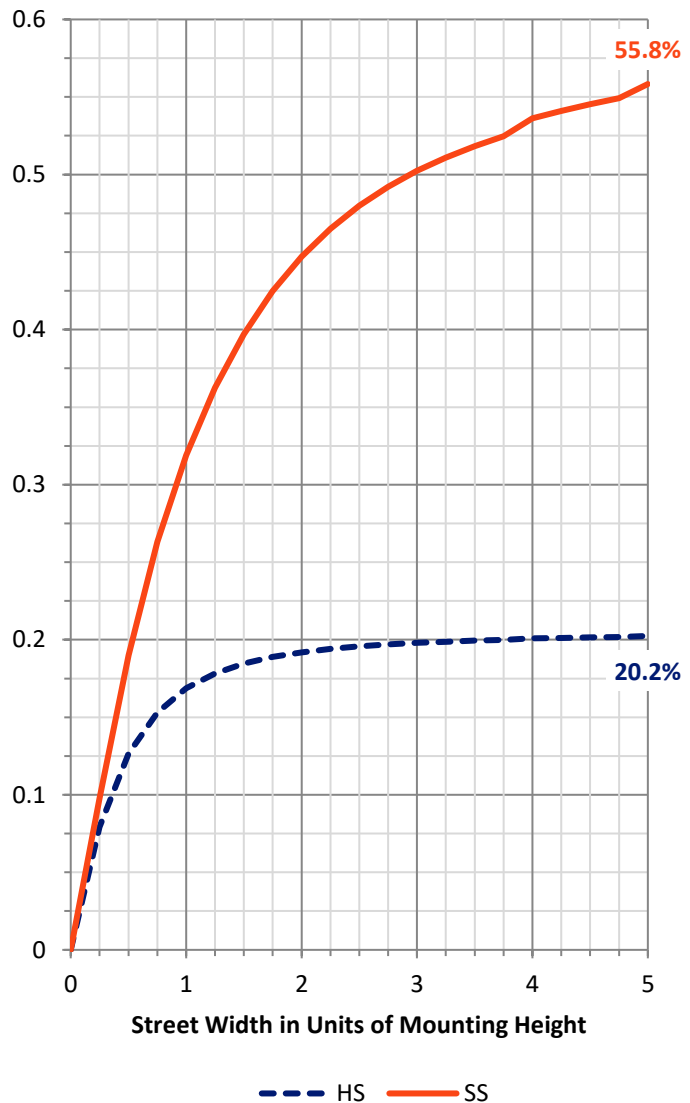
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.5	43.1	673.6
	% Fixture	20.6	1.4	22.0
Street Side	Lumens	1853.6	534.8	2388.4
	% Fixture	60.5	17.5	78.0
Total	Lumens	2484.1	578.0	3062.0
	% Fixture	81.1	18.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	2.5
10°-20°	212.7	6.9
20°-30°	303.9	9.9
30°-40°	346.0	11.3
40°-50°	356.0	11.6
50°-60°	352.6	11.5
60°-70°	333.6	10.9
70°-80°	284.3	9.3
80°-90°	218.6	7.1
90°-100°	172.9	5.6
100°-110°	135.9	4.4
110°-120°	99.8	3.3
120°-130°	70.8	2.3
130°-140°	48.5	1.6
140°-150°	30.2	1.0
150°-160°	15.2	0.5
160°-170°	4.4	0.1
170°-180°	0.2	0.0
0°-90°	2484.1	81.1
0°-180°	3062.0	100.0

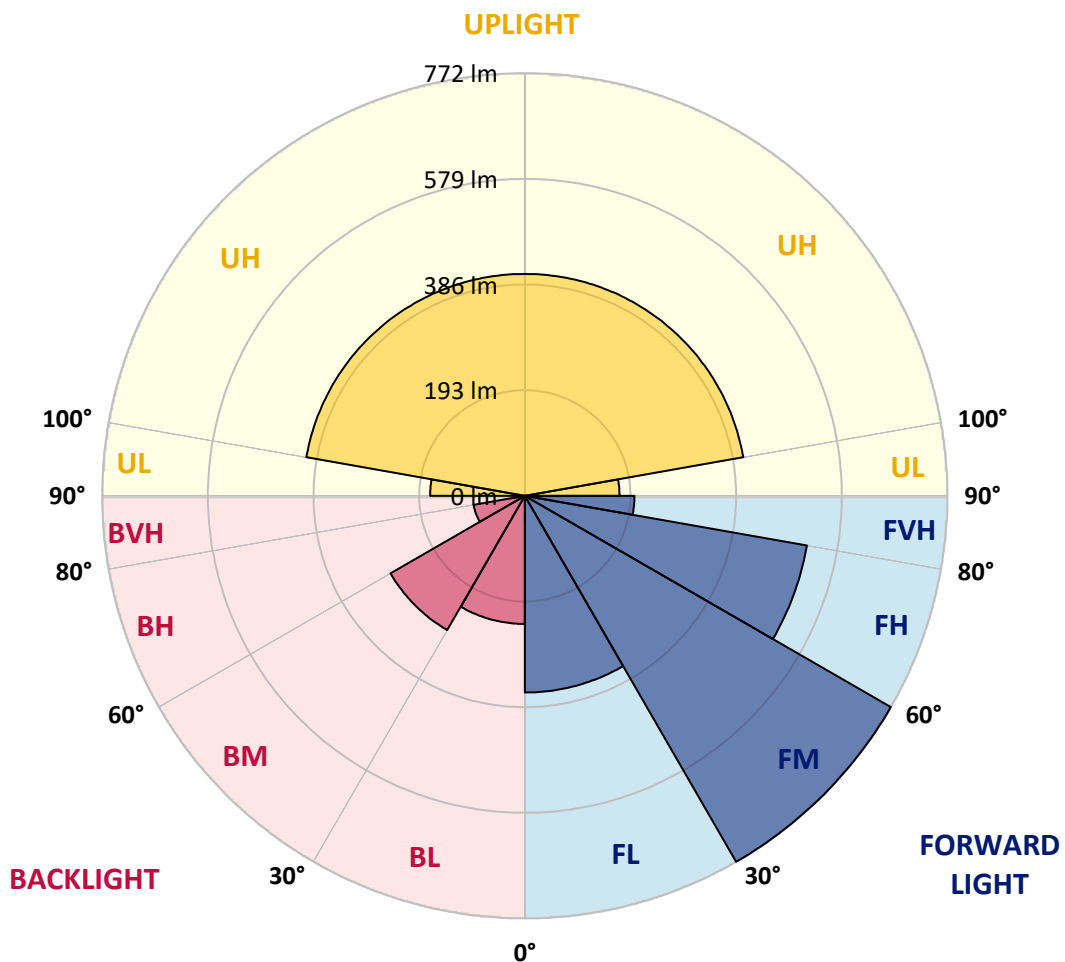


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.1	11.7			
FM (30°-60°)	771.5	25.2			
FH (60°-80°)	523.0	17.1			G0/660
FVH (80°-90°)	200.0	6.5			G2/225
BL (0°-30°)	233.9	7.6	B1/500		
BM (30°-60°)	283.1	9.2	B1/1000		
BH (60°-80°)	94.9	3.1	B0/110		G0/110
BVH (80°-90°)	18.6	0.6			G1/100
UL (90°-100°)	172.9	5.6		U3/500	
UH (100°-180°)	405.1	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°	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9
2.5°	841.6	841.6	841.6	839.6	839.6	839.6	839.6	839.6	835.6	835.6	833.7
5°	867.3	867.3	867.3	865.4	865.4	863.4	861.4	859.4	857.4	853.5	851.5
7.5°	891.1	889.1	889.1	887.1	885.2	885.2	883.2	879.2	875.3	869.3	865.4
10°	910.9	910.9	908.9	906.9	905.0	903.0	901.0	895.1	889.1	883.2	877.2
12.5°	928.7	926.7	926.7	922.8	918.8	916.8	914.9	910.9	903.0	895.1	885.2
15°	938.6	938.6	936.6	932.7	928.7	926.7	924.8	918.8	910.9	901.0	891.1
17.5°	942.6	942.6	940.6	938.6	934.7	932.7	928.7	922.8	914.9	905.0	893.1
20°	938.6	938.6	936.6	934.7	932.7	928.7	926.7	920.8	912.9	903.0	891.1
22.5°	930.7	930.7	928.7	926.7	922.8	920.8	918.8	912.9	905.0	895.1	883.2
25°	916.8	914.9	914.9	912.9	908.9	906.9	905.0	899.0	891.1	883.2	871.3
27.5°	901.0	899.0	897.0	895.1	893.1	889.1	887.1	883.2	875.3	865.4	853.5
30°	885.2	883.2	883.2	879.2	875.3	873.3	869.3	863.4	855.4	843.6	833.7
32.5°	869.3	869.3	865.4	863.4	857.4	853.5	851.5	841.6	833.7	821.8	807.9
35°	857.4	857.4	853.5	849.5	841.6	837.6	833.7	821.8	811.9	798.0	782.2
37.5°	849.5	847.5	843.6	835.6	827.7	823.8	817.8	804.0	790.1	774.3	758.4
40°	843.6	841.6	835.6	829.7	817.8	811.9	804.0	788.1	770.3	750.5	730.7
42.5°	841.6	839.6	833.7	823.8	809.9	802.0	792.1	772.3	752.5	728.7	705.0
45°	845.5	841.6	833.7	821.8	804.0	794.1	784.2	760.4	734.7	708.9	681.2
47.5°	853.5	849.5	839.6	825.7	805.9	792.1	780.2	752.5	720.8	691.1	657.4
50°	865.4	859.4	849.5	831.7	807.9	794.1	778.2	744.6	708.9	673.3	637.6
52.5°	879.2	873.3	861.4	841.6	813.9	798.0	780.2	740.6	701.0	659.4	617.8
55°	893.1	889.1	873.3	851.5	819.8	802.0	782.2	738.6	693.1	645.5	600.0
57.5°	906.9	901.0	887.1	861.4	827.7	807.9	784.2	736.6	685.2	633.7	584.2
60°	916.8	910.9	895.1	867.3	831.7	807.9	784.2	732.7	677.2	621.8	566.3
62.5°	920.8	912.9	897.0	869.3	829.7	807.9	782.2	726.7	667.3	605.9	550.5
65°	914.9	908.9	893.1	865.4	823.8	800.0	774.3	716.8	655.4	592.1	532.7
67.5°	901.0	895.1	879.2	851.5	811.9	786.1	760.4	701.0	637.6	574.3	512.9
70°	879.2	875.3	857.4	831.7	790.1	766.3	740.6	681.2	617.8	554.5	493.1
72.5°	849.5	845.5	829.7	802.0	764.4	740.6	714.9	657.4	596.0	532.7	469.3
75°	815.8	807.9	792.1	768.3	732.7	708.9	685.2	629.7	570.3	506.9	447.5
77.5°	774.3	770.3	754.5	732.7	695.1	675.3	651.5	598.0	540.6	481.2	423.8
80°	730.7	728.7	716.8	691.1	659.4	639.6	615.8	566.3	510.9	453.5	398.0
82.5°	689.1	687.1	675.3	651.5	619.8	602.0	582.2	532.7	481.2	427.7	376.2
85°	649.5	645.5	635.6	613.9	584.2	566.3	546.5	501.0	451.5	404.0	352.5
87.5°	611.9	607.9	596.0	576.2	550.5	530.7	512.9	471.3	425.7	380.2	334.7
90°	576.2	574.3	562.4	546.5	518.8	503.0	485.2	447.5	404.0	360.4	316.8
92.5°	546.5	544.6	534.7	514.9	491.1	477.2	459.4	425.7	386.1	344.6	306.9
95°	516.8	512.9	503.0	489.1	465.3	453.5	435.6	404.0	368.3	330.7	293.1
97.5°	485.2	483.2	475.2	459.4	439.6	427.7	413.9	382.2	350.5	316.8	283.2
100°	455.4	453.5	447.5	433.7	413.9	402.0	390.1	362.4	332.7	301.0	269.3
102.5°	427.7	423.8	417.8	404.0	388.1	376.2	366.3	340.6	312.9	283.2	257.4
105°	396.0	394.1	386.1	378.2	360.4	352.5	340.6	318.8	293.1	267.3	241.6
107.5°	366.3	364.4	358.4	350.5	336.6	326.7	316.8	297.0	275.2	251.5	227.7
110°	338.6	336.6	332.7	324.8	310.9	305.0	297.0	279.2	259.4	237.6	215.8



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 CATALOG NUMBER: AXCS3ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	310.9	310.9	306.9	301.0	289.1	281.2	275.2	259.4	241.6	223.8	204.0
115°	291.1	287.1	285.1	277.2	269.3	263.4	257.4	241.6	227.7	209.9	194.1
117.5°	267.3	267.3	263.4	257.4	249.5	243.6	239.6	225.7	211.9	198.0	182.2
120°	249.5	247.5	245.5	239.6	231.7	227.7	223.8	211.9	200.0	186.1	172.3
122.5°	231.7	229.7	227.7	223.8	217.8	213.9	209.9	200.0	188.1	176.2	164.4
125°	215.8	215.8	213.9	209.9	204.0	200.0	196.0	188.1	178.2	166.3	154.5
127.5°	202.0	202.0	200.0	196.0	192.1	188.1	184.2	178.2	168.3	158.4	148.5
130°	190.1	188.1	188.1	184.2	180.2	176.2	174.3	166.3	158.4	150.5	140.6
132.5°	178.2	178.2	176.2	172.3	170.3	166.3	164.4	158.4	150.5	142.6	132.7
135°	168.3	168.3	166.3	164.4	160.4	158.4	156.4	150.5	142.6	134.7	126.7
137.5°	158.4	158.4	156.4	154.5	152.5	150.5	146.5	142.6	134.7	126.7	118.8
140°	150.5	150.5	148.5	146.5	142.6	140.6	138.6	134.7	128.7	120.8	112.9
142.5°	142.6	142.6	140.6	138.6	134.7	132.7	130.7	126.7	120.8	112.9	105.0
145°	134.7	132.7	132.7	130.7	126.7	124.8	122.8	118.8	112.9	105.0	97.0
147.5°	124.8	124.8	122.8	120.8	116.8	114.9	112.9	108.9	103.0	97.0	89.1
150°	114.9	114.9	112.9	110.9	108.9	106.9	105.0	101.0	95.0	89.1	81.2
152.5°	105.0	105.0	103.0	101.0	99.0	97.0	95.0	91.1	85.1	81.2	75.2
155°	95.0	95.0	93.1	91.1	89.1	87.1	85.1	81.2	77.2	71.3	67.3
157.5°	83.2	83.2	83.2	81.2	79.2	77.2	75.2	71.3	67.3	63.4	59.4
160°	73.3	73.3	71.3	71.3	69.3	67.3	65.3	63.4	59.4	55.4	51.5
162.5°	63.4	61.4	61.4	59.4	59.4	57.4	55.4	53.5	49.5	47.5	37.6
165°	51.5	51.5	51.5	49.5	47.5	47.5	45.5	41.6	33.7	27.7	21.8
167.5°	35.6	35.6	33.7	29.7	27.7	25.7	23.8	19.8	17.8	15.8	15.8
170°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	11.9	11.9
172.5°	9.9	9.9	9.9	7.9	7.9	7.9	7.9	7.9	7.9	5.9	5.9
175°	2.0	2.0	2.0	2.0	4.0	2.0	4.0	4.0	2.0	2.0	2.0
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°	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9
2.5°	831.7	827.7	827.7	823.8	823.8	821.8	819.8	815.8	813.9	811.9	798.0
5°	847.5	843.6	837.6	833.7	831.7	827.7	823.8	817.8	813.9	807.9	784.2
7.5°	859.4	853.5	845.5	839.6	835.6	831.7	823.8	817.8	809.9	802.0	768.3
10°	869.3	861.4	853.5	843.6	839.6	833.7	823.8	813.9	804.0	792.1	748.5
12.5°	877.2	867.3	855.4	843.6	839.6	833.7	819.8	807.9	796.0	782.2	724.8
15°	881.2	869.3	855.4	841.6	835.6	827.7	813.9	798.0	784.2	768.3	699.0
17.5°	881.2	867.3	853.5	837.6	829.7	819.8	804.0	788.1	768.3	750.5	671.3
20°	877.2	861.4	845.5	827.7	819.8	809.9	792.1	772.3	752.5	730.7	639.6
22.5°	869.3	853.5	835.6	815.8	805.9	796.0	776.2	754.5	732.7	708.9	605.9
25°	855.4	839.6	819.8	802.0	790.1	778.2	756.4	732.7	708.9	683.2	570.3
27.5°	839.6	821.8	804.0	782.2	770.3	758.4	732.7	708.9	683.2	657.4	536.6
30°	817.8	800.0	780.2	758.4	746.5	734.7	708.9	683.2	655.4	625.7	503.0
32.5°	794.1	776.2	754.5	732.7	718.8	706.9	681.2	653.5	625.7	596.0	465.3
35°	768.3	748.5	726.7	703.0	691.1	677.2	649.5	621.8	594.1	564.4	431.7
37.5°	738.6	718.8	697.0	673.3	659.4	647.5	617.8	590.1	560.4	528.7	398.0
40°	710.9	689.1	665.3	641.6	627.7	613.9	586.1	556.4	524.8	495.1	368.3
42.5°	681.2	657.4	633.7	607.9	594.1	578.2	550.5	520.8	491.1	459.4	336.6
45°	653.5	627.7	600.0	574.3	560.4	546.5	514.9	487.1	455.4	425.7	308.9
47.5°	627.7	598.0	570.3	540.6	526.7	512.9	483.2	453.5	423.8	396.0	283.2
50°	602.0	570.3	538.6	508.9	495.1	481.2	449.5	421.8	390.1	362.4	259.4
52.5°	578.2	542.6	508.9	479.2	463.4	449.5	419.8	388.1	360.4	332.7	235.6
55°	556.4	516.8	481.2	447.5	433.7	419.8	388.1	358.4	330.7	303.0	215.8
57.5°	536.6	493.1	455.4	421.8	404.0	390.1	360.4	330.7	303.0	275.2	196.0
60°	516.8	471.3	429.7	394.1	378.2	362.4	332.7	305.0	277.2	251.5	178.2
62.5°	495.1	449.5	405.9	370.3	352.5	336.6	306.9	279.2	251.5	225.7	160.4
65°	475.2	427.7	384.2	346.5	328.7	312.9	283.2	255.4	227.7	204.0	144.6
67.5°	455.4	405.9	362.4	322.8	305.0	289.1	259.4	231.7	205.9	184.2	128.7
70°	435.6	384.2	338.6	303.0	285.1	267.3	237.6	209.9	184.2	162.4	114.9
72.5°	413.9	364.4	320.8	281.2	263.4	247.5	217.8	190.1	164.4	144.6	101.0
75°	392.1	342.6	299.0	261.4	243.6	227.7	196.0	170.3	144.6	124.8	89.1
77.5°	368.3	320.8	279.2	241.6	225.7	207.9	178.2	150.5	126.7	108.9	75.2
80°	348.5	301.0	261.4	223.8	207.9	192.1	160.4	134.7	110.9	95.0	65.3
82.5°	326.7	281.2	241.6	205.9	190.1	174.3	144.6	118.8	95.0	79.2	55.4
85°	306.9	265.3	225.7	192.1	176.2	160.4	132.7	105.0	83.2	69.3	47.5
87.5°	291.1	251.5	213.9	180.2	164.4	150.5	120.8	95.0	73.3	59.4	41.6
90°	277.2	239.6	204.0	172.3	158.4	142.6	114.9	89.1	67.3	55.4	35.6
92.5°	269.3	233.7	200.0	170.3	154.5	140.6	112.9	87.1	65.3	53.5	35.6
95°	259.4	225.7	194.1	164.4	150.5	136.6	108.9	85.1	65.3	53.5	35.6
97.5°	249.5	217.8	188.1	160.4	146.5	132.7	106.9	83.2	63.4	51.5	33.7
100°	239.6	209.9	180.2	154.5	140.6	128.7	103.0	81.2	61.4	49.5	33.7
102.5°	227.7	200.0	174.3	148.5	136.6	122.8	101.0	79.2	61.4	49.5	33.7
105°	215.8	190.1	166.3	142.6	130.7	118.8	97.0	75.2	59.4	47.5	31.7
107.5°	205.9	182.2	158.4	136.6	124.8	114.9	93.1	73.3	57.4	45.5	31.7
110°	194.1	172.3	152.5	130.7	120.8	110.9	91.1	71.3	55.4	43.6	31.7



REPORT NUMBER: P1449778
 CATALOG NUMBER: AXCS3ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	112.5°
112.5°	184.2	164.4	144.6	126.7	114.9	105.0	87.1	69.3	53.5	41.6	29.7
115°	174.3	156.4	138.6	120.8	110.9	101.0	83.2	65.3	49.5	39.6	27.7
117.5°	166.3	148.5	132.7	114.9	105.0	97.0	79.2	63.4	47.5	37.6	27.7
120°	158.4	142.6	126.7	108.9	101.0	93.1	75.2	59.4	45.5	35.6	25.7
122.5°	150.5	134.7	120.8	105.0	97.0	89.1	73.3	57.4	43.6	33.7	23.8
125°	142.6	128.7	114.9	101.0	93.1	85.1	69.3	55.4	41.6	31.7	23.8
127.5°	136.6	122.8	108.9	95.0	87.1	81.2	65.3	51.5	39.6	29.7	21.8
130°	128.7	116.8	105.0	91.1	83.2	77.2	61.4	49.5	35.6	27.7	21.8
132.5°	122.8	110.9	99.0	85.1	79.2	71.3	59.4	45.5	33.7	25.7	19.8
135°	116.8	105.0	93.1	81.2	73.3	67.3	55.4	43.6	31.7	25.7	17.8
137.5°	108.9	99.0	87.1	75.2	69.3	63.4	51.5	39.6	29.7	23.8	17.8
140°	103.0	93.1	81.2	71.3	65.3	59.4	47.5	37.6	25.7	21.8	15.8
142.5°	95.0	85.1	75.2	65.3	61.4	55.4	43.6	33.7	23.8	19.8	13.9
145°	89.1	81.2	71.3	61.4	55.4	51.5	41.6	31.7	21.8	17.8	13.9
147.5°	81.2	73.3	65.3	55.4	51.5	45.5	37.6	27.7	17.8	15.8	11.9
150°	75.2	67.3	59.4	51.5	45.5	41.6	33.7	25.7	15.8	13.9	9.9
152.5°	67.3	61.4	53.5	45.5	39.6	35.6	29.7	21.8	13.9	11.9	9.9
155°	61.4	55.4	47.5	37.6	33.7	31.7	25.7	19.8	11.9	9.9	7.9
157.5°	53.5	47.5	37.6	31.7	29.7	27.7	21.8	15.8	9.9	7.9	5.9
160°	45.5	35.6	27.7	25.7	25.7	23.8	17.8	11.9	7.9	7.9	5.9
162.5°	29.7	23.8	23.8	21.8	19.8	17.8	13.9	9.9	5.9	5.9	4.0
165°	19.8	19.8	17.8	15.8	15.8	13.9	9.9	5.9	5.9	4.0	4.0
167.5°	15.8	13.9	13.9	11.9	9.9	7.9	5.9	4.0	4.0	4.0	2.0
170°	9.9	9.9	7.9	5.9	5.9	5.9	4.0	2.0	2.0	2.0	2.0
172.5°	5.9	5.9	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	0.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P1449778
 CATALOG NUMBER: AXCS3ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	811.9	811.9	811.9
2.5°	788.1	782.2	784.2
5°	764.4	750.5	750.5
7.5°	736.6	712.9	706.9
10°	701.0	663.4	653.5
12.5°	663.4	615.8	598.0
15°	619.8	560.4	542.6
17.5°	576.2	508.9	489.1
20°	532.7	459.4	433.7
22.5°	489.1	411.9	388.1
25°	447.5	370.3	346.5
27.5°	407.9	332.7	308.9
30°	370.3	301.0	279.2
32.5°	338.6	273.3	251.5
35°	306.9	245.5	229.7
37.5°	279.2	225.7	209.9
40°	257.4	207.9	192.1
42.5°	233.7	190.1	176.2
45°	213.9	174.3	162.4
47.5°	196.0	160.4	148.5
50°	180.2	148.5	136.6
52.5°	166.3	136.6	124.8
55°	150.5	124.8	114.9
57.5°	138.6	112.9	103.0
60°	126.7	103.0	93.1
62.5°	112.9	93.1	83.2
65°	103.0	83.2	73.3
67.5°	91.1	73.3	63.4
70°	81.2	63.4	53.5
72.5°	71.3	53.5	45.5
75°	61.4	45.5	37.6
77.5°	51.5	37.6	27.7
80°	43.6	29.7	21.8
82.5°	35.6	23.8	15.8
85°	29.7	17.8	9.9
87.5°	23.8	11.9	4.0
90°	17.8	4.0	0.0
92.5°	17.8	4.0	0.0
95°	17.8	4.0	0.0
97.5°	17.8	4.0	0.0
100°	17.8	4.0	0.0
102.5°	15.8	4.0	0.0
105°	15.8	4.0	0.0
107.5°	15.8	4.0	0.0
110°	15.8	4.0	0.0



REPORT NUMBER: P1449778
 CATALOG NUMBER: AXCS3ARL-GRF-W

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
112.5°	15.8	4.0	0.0
115°	13.9	4.0	0.0
117.5°	13.9	4.0	0.0
120°	13.9	2.0	0.0
122.5°	11.9	2.0	0.0
125°	11.9	2.0	0.0
127.5°	11.9	2.0	0.0
130°	9.9	2.0	0.0
132.5°	9.9	2.0	0.0
135°	9.9	2.0	0.0
137.5°	7.9	2.0	0.0
140°	7.9	0.0	0.0
142.5°	5.9	0.0	0.0
145°	5.9	0.0	0.0
147.5°	5.9	0.0	0.0
150°	4.0	0.0	0.0
152.5°	4.0	0.0	0.0
155°	4.0	0.0	0.0
157.5°	2.0	0.0	0.0
160°	2.0	0.0	0.0
162.5°	2.0	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

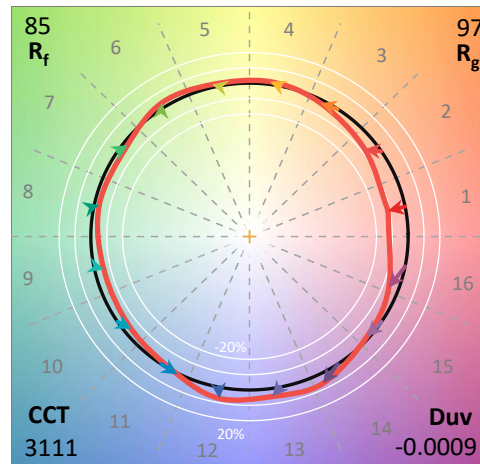
Test Information

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

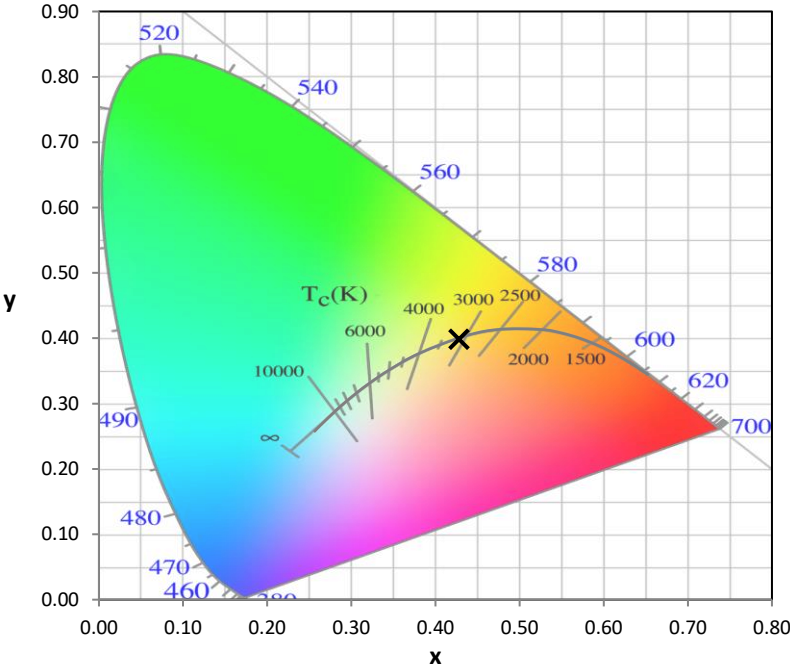
Stabilization Time: 52M
 Operation Time: 1H 52M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2512-637-1

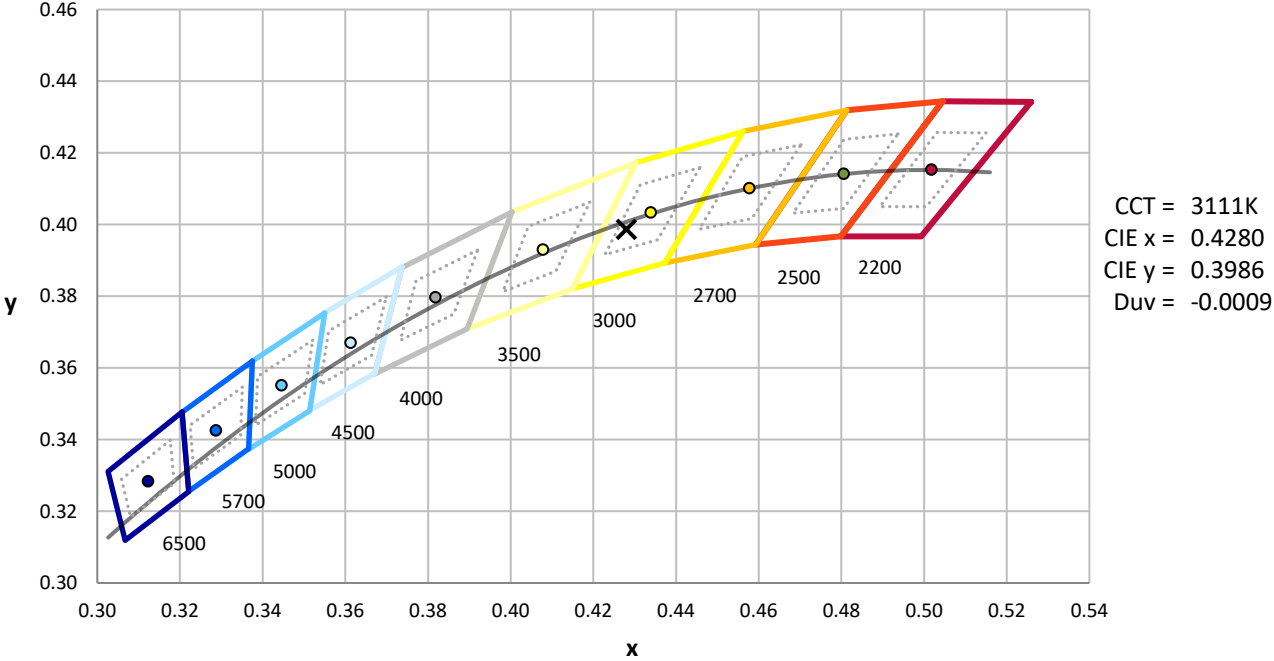
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



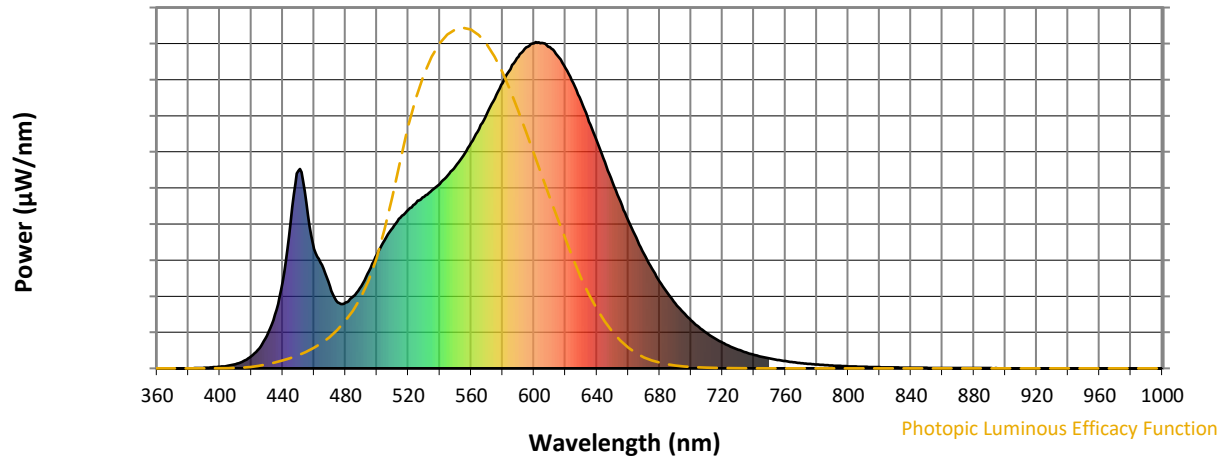
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2512-637-1

Photopic Flux vs. Wavelength

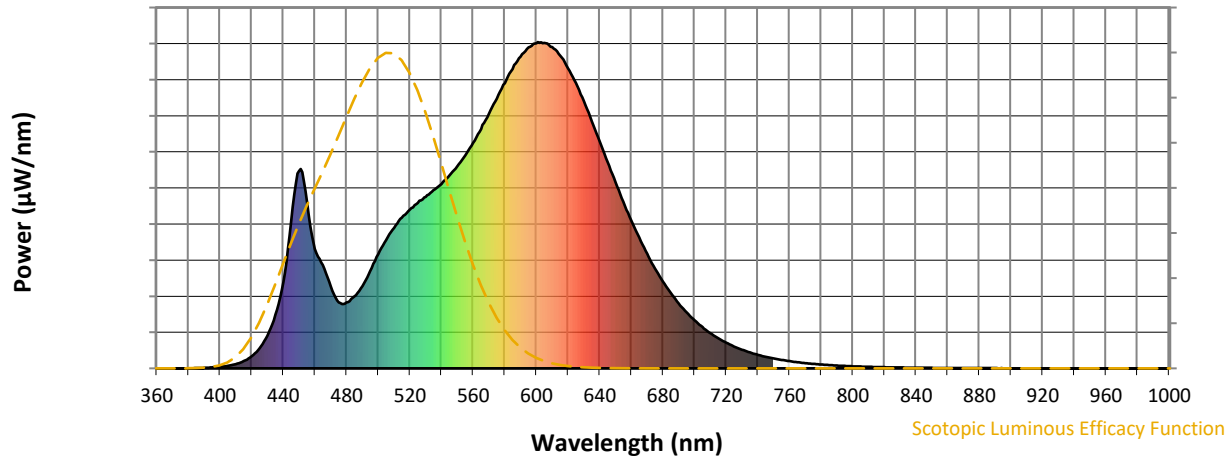


Photopic Lumens: NR

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



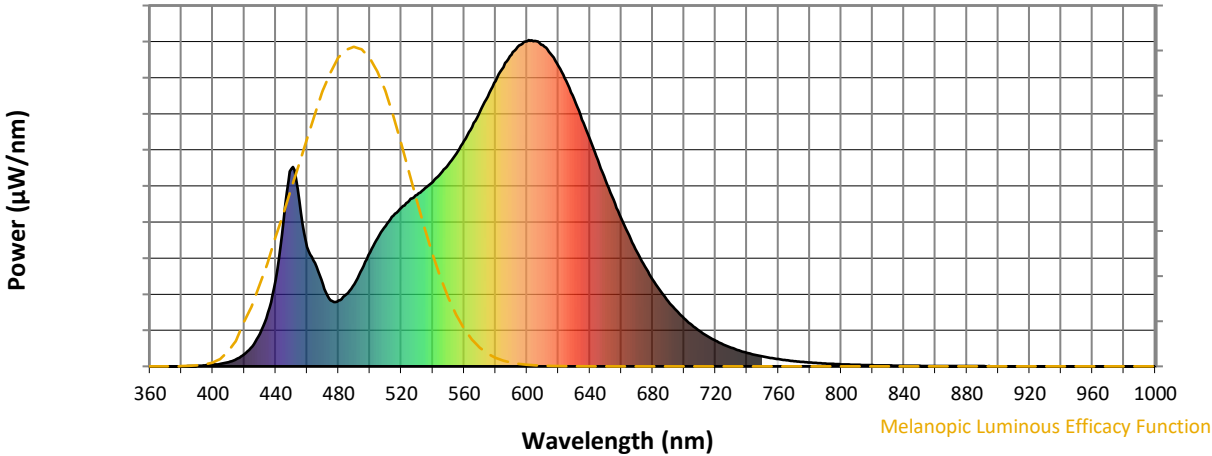
Scotopic Lumens: NR

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



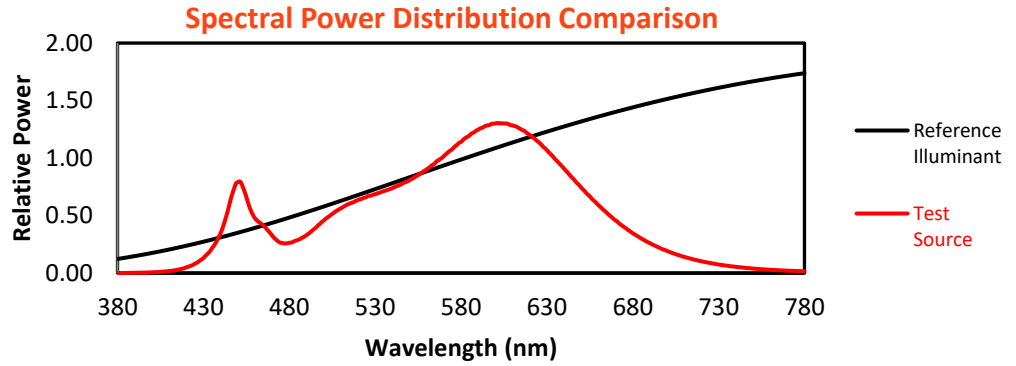
Melanopic Lumens: NR

M/P: 2.73

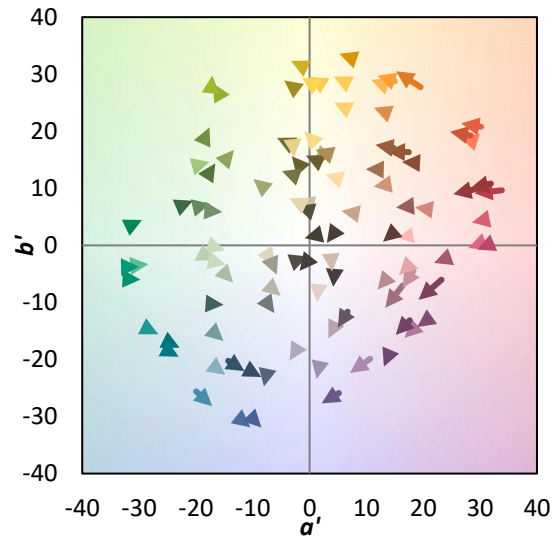
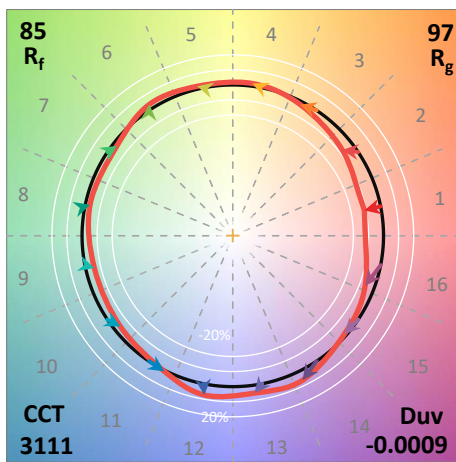
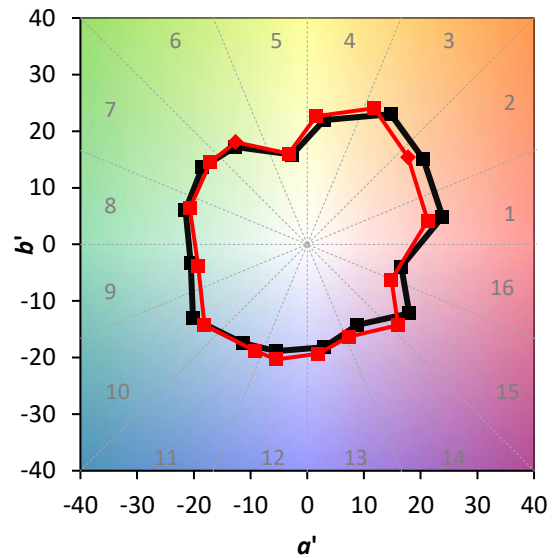
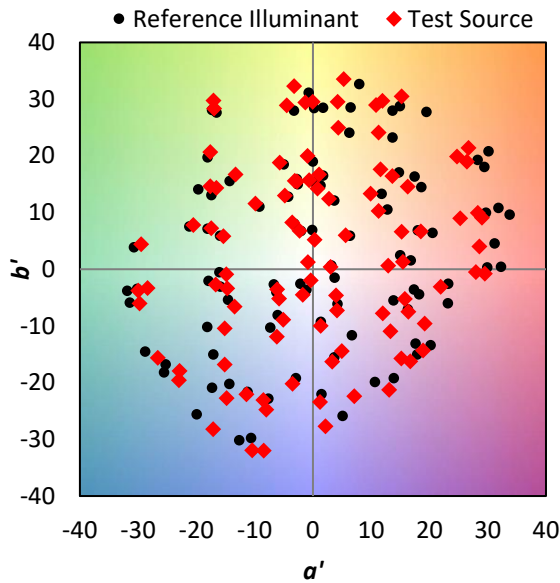
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	252	NR	620	920	NR	750	30	NR	880	1	NR
365	0	NR	495	298	NR	625	875	NR	755	26	NR	885	1	NR
370	0	NR	500	349	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			

Summary

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

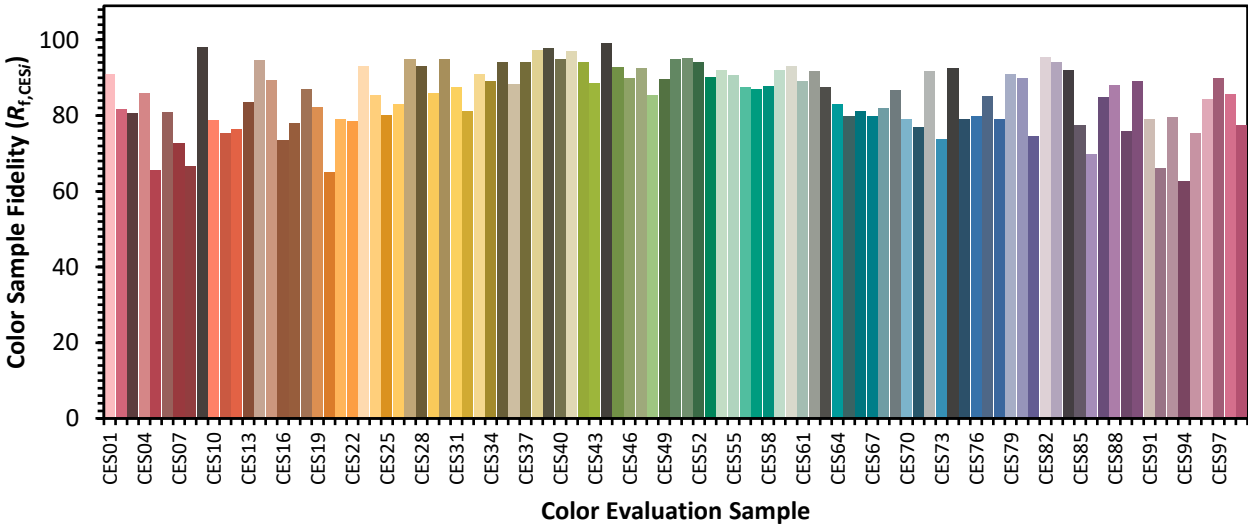


Color Vector Graphics

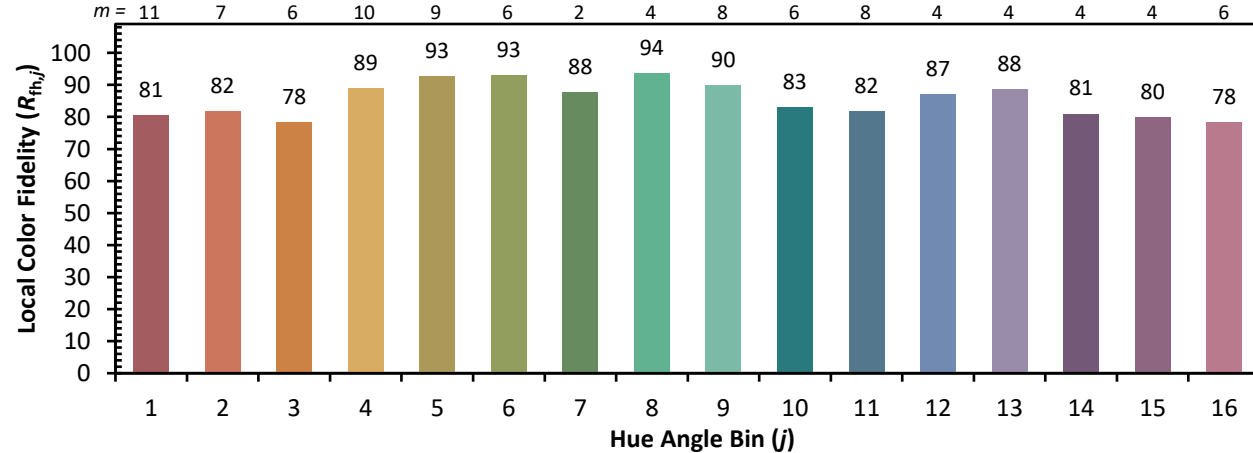
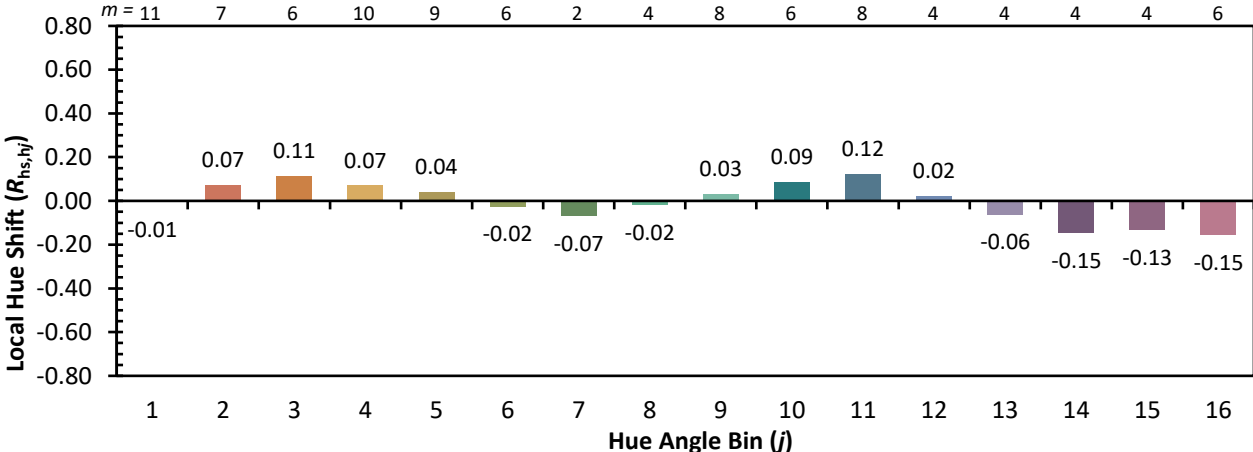
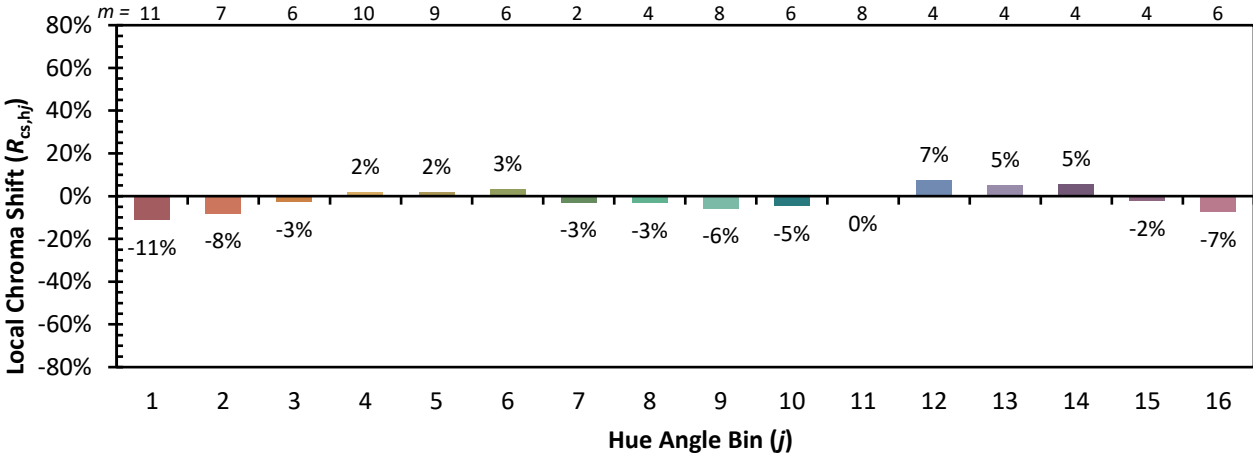


Individual Sample Fidelity Index ($R_{f,i}$)

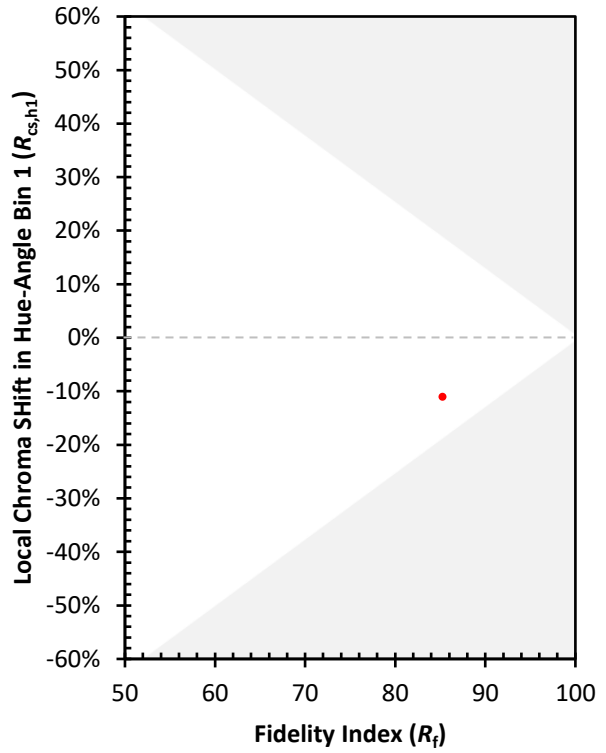
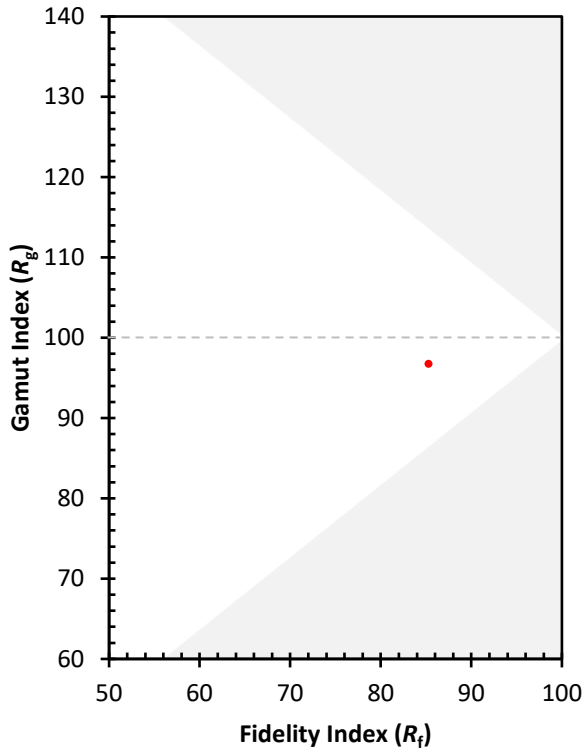
CES01 = 86	CES26 = 83	CES51 = 95	CES76 = 80
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 86	CES54 = 92	CES79 = 91
CES05 = 49	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 87	CES56 = 88	CES81 = 74
CES07 = 42	CES32 = 81	CES57 = 87	CES82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