

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: STREETWORKS

Report Number: P856214

Luminaire Tested: **FFX-CLB-50-730-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856214
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-730-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

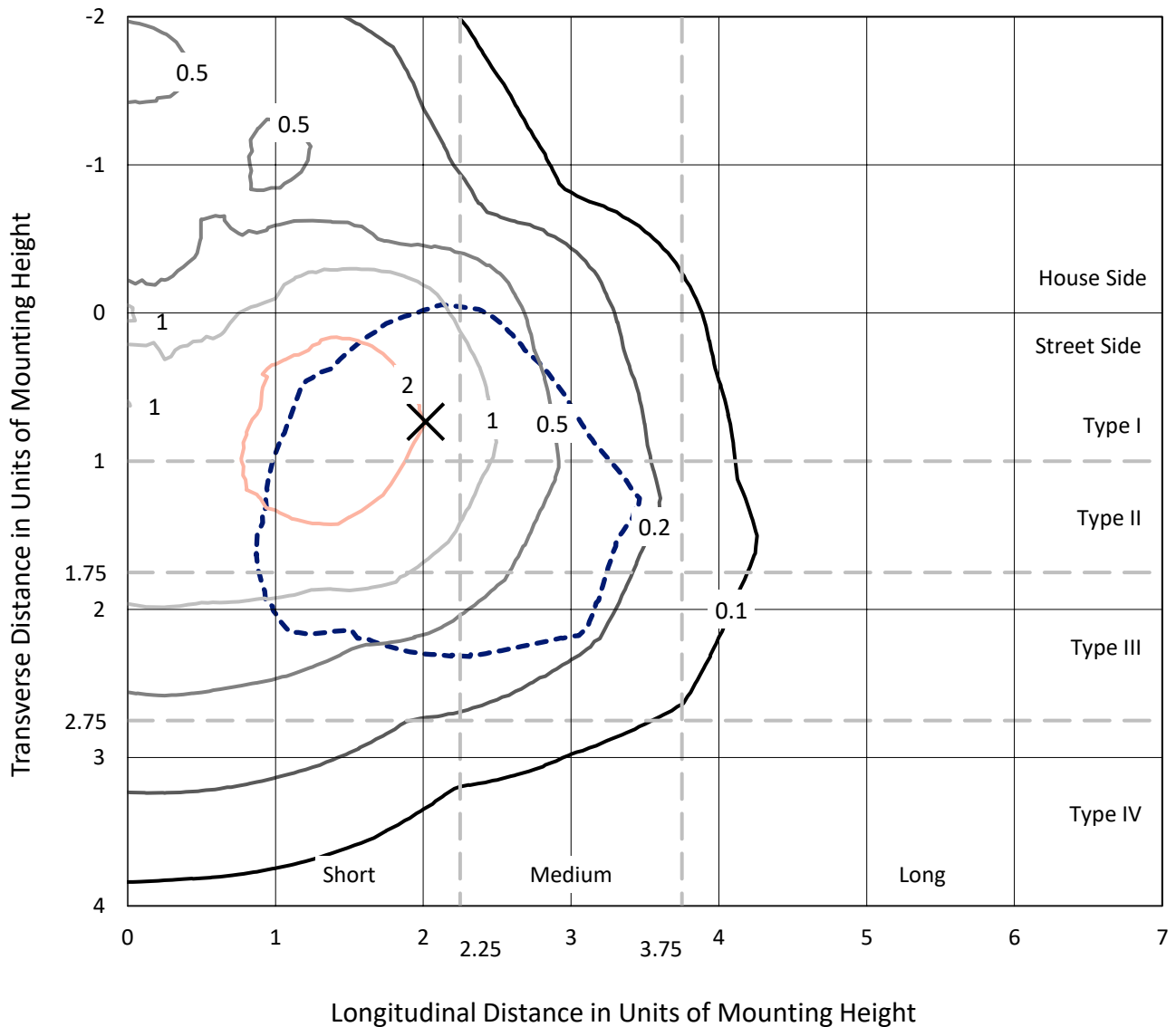
Lumens per Lamp: N/A
Luminaire Lumens: 7835.4 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

Input Watts (W): 50.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.0%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

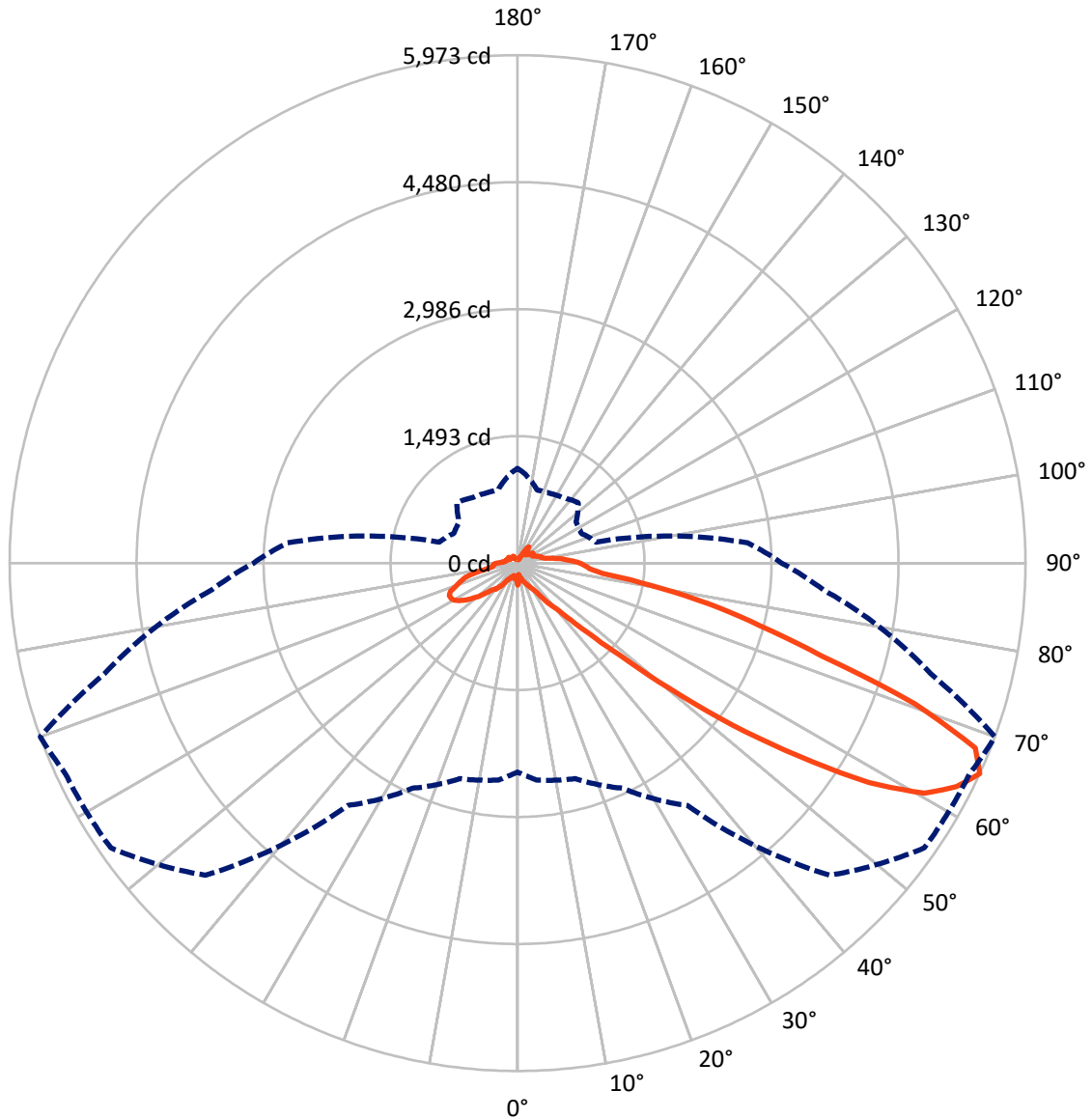
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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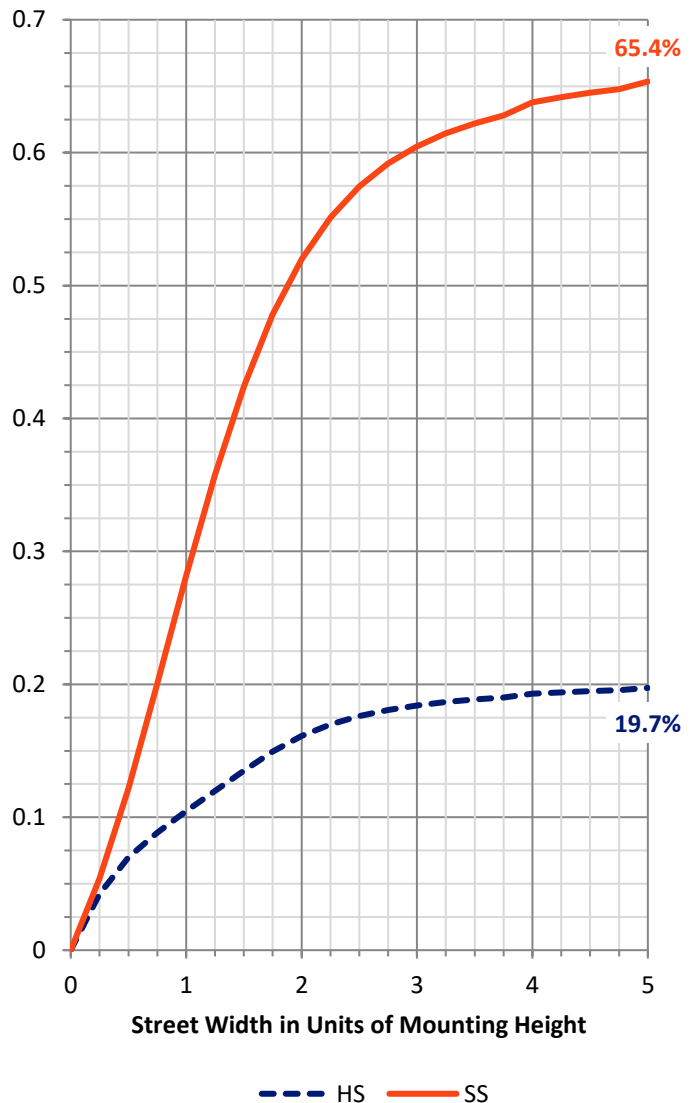
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.1	301.0	1908.1
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	5299.2	628.1	5927.3
	% Fixture	67.6	8.0	75.6
Total	Lumens	6906.3	929.1	7835.4
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	0.2
10°-20°	52.4	0.7
20°-30°	105.8	1.3
30°-40°	223.8	2.9
40°-50°	521.8	6.7
50°-60°	1555.0	19.8
60°-70°	2491.7	31.8
70°-80°	1431.4	18.3
80°-90°	507.7	6.5
90°-100°	299.4	3.8
100°-110°	180.9	2.3
110°-120°	136.0	1.7
120°-130°	115.2	1.5
130°-140°	76.5	1.0
140°-150°	71.8	0.9
150°-160°	31.8	0.4
160°-170°	13.2	0.2
170°-180°	4.4	0.1
0°-90°	6906.3	88.1
0°-180°	7835.4	100.0



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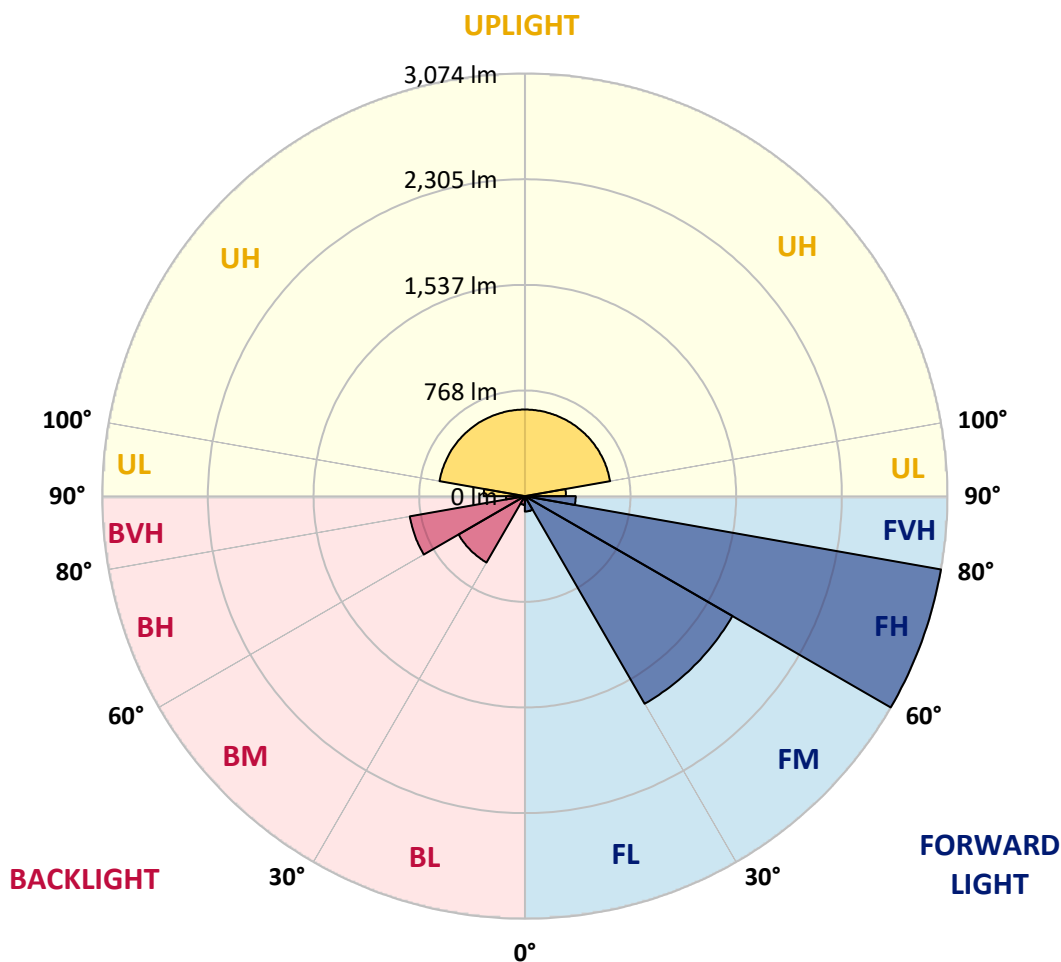
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.3	1.4			
FM (30°-60°)	1743.4	22.3			
FH (60°-80°)	3073.7	39.2			G2/5000
FVH (80°-90°)	369.8	4.7			G3/500
BL (0°-30°)	62.6	0.8	B0/110		
BM (30°-60°)	557.2	7.1	B1/1000		
BH (60°-80°)	849.4	10.8	B2/1000		G2/1000
BVH (80°-90°)	137.9	1.8			G2/225
UL (90°-100°)	299.4	3.8		U3/500	
UH (100°-180°)	629.7	8.0		U4/1000	

BUG Rating: B2-U4-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9
2.5°	216.7	215.1	219.2	222.5	226.7	220.9	210.9	220.9	224.2	234.2	241.6
5°	184.3	185.2	189.3	198.5	206.8	205.1	179.4	146.1	136.2	132.0	132.9
7.5°	182.7	181.9	179.4	178.5	183.5	201.8	199.3	175.2	156.9	141.2	125.4
10°	192.6	195.1	197.6	197.6	194.3	182.7	181.9	180.2	173.5	166.1	156.1
12.5°	238.3	241.6	244.1	235.8	225.0	213.4	204.3	189.3	182.7	178.5	171.1
15°	288.1	291.5	287.3	271.5	252.4	230.8	222.5	223.4	214.2	203.4	187.7
17.5°	314.7	313.1	295.6	277.3	262.4	245.8	234.2	226.7	223.4	219.2	203.4
20°	298.1	294.0	283.2	275.7	274.0	264.9	257.4	250.8	246.6	237.5	218.4
22.5°	285.7	285.7	284.0	282.3	292.3	288.1	284.8	275.7	269.9	258.2	230.0
25°	301.4	301.4	302.3	299.8	313.1	313.1	313.1	303.1	295.6	279.0	245.0
27.5°	323.8	323.0	325.5	323.8	335.5	338.0	342.9	335.5	324.7	304.8	261.6
30°	347.9	347.9	350.4	352.1	363.7	369.5	375.3	372.0	358.7	334.6	289.8
32.5°	373.7	372.8	380.3	388.6	395.3	406.1	408.5	416.9	403.6	375.3	331.3
35°	411.0	413.5	433.5	450.9	470.0	476.6	488.3	520.6	507.4	469.2	418.5
37.5°	594.6	582.1	577.1	557.2	554.7	593.7	607.8	638.6	612.0	560.5	483.3
40°	630.3	615.3	608.7	589.6	596.2	676.8	662.6	773.1	708.3	626.1	576.3
42.5°	593.7	591.2	669.3	684.2	675.9	803.8	776.4	980.7	911.8	720.8	665.1
45°	716.6	710.0	743.2	769.8	790.5	1020.5	1003.9	1219.0	1189.1	877.7	822.9
47.5°	808.8	802.1	840.3	929.2	1050.4	1299.5	1396.7	1721.4	1620.1	1207.4	1082.8
50°	1084.5	1080.3	1183.3	1278.8	1478.9	1846.8	2113.3	2463.7	2315.1	1686.5	1457.3
52.5°	1345.2	1358.5	1478.9	1662.4	1874.2	2538.5	2918.8	3164.6	3162.9	2196.4	1870.9
55°	1532.1	1576.9	1718.9	2050.2	2344.2	3152.1	3665.3	3847.2	4000.0	2930.4	2278.6
57.5°	1894.9	1973.0	2109.2	2437.2	2816.7	3894.5	4626.9	4597.0	4871.9	3691.9	2722.0
60°	2267.8	2359.1	2404.8	2706.2	3204.4	4609.5	5287.9	5218.1	5494.6	4354.5	3188.7
62.5°	2384.0	2473.7	2518.5	2846.5	3484.3	5014.7	5592.6	5620.0	5791.9	4827.0	3465.2
65°	2457.1	2560.1	2624.8	2920.5	3478.5	5191.5	5839.2	5865.0	5972.9	5030.5	3608.0
67.5°	2443.8	2559.2	2642.3	2907.2	3285.8	5044.6	5777.8	5661.5	5806.0	4885.1	3457.7
70°	2179.8	2280.2	2363.3	2567.5	2742.8	4249.9	4998.9	4807.1	4956.6	4081.3	2854.9
72.5°	1781.2	1822.7	1894.9	1991.3	2078.4	3153.0	3813.1	3648.7	3735.1	3061.6	2139.1
75°	1463.1	1454.8	1519.6	1589.4	1561.9	2303.5	3016.8	2866.5	2947.0	2325.1	1706.4
77.5°	1084.5	1080.3	1174.2	1168.3	1126.8	1595.2	2391.5	2282.7	2293.5	1717.2	1278.0
80°	651.8	664.3	755.6	773.9	724.9	1000.6	1707.3	1655.8	1578.6	1173.3	896.0
82.5°	457.5	476.6	524.8	544.7	520.6	730.7	1131.0	1095.3	1003.9	851.1	631.1
85°	466.7	470.0	475.8	477.5	466.7	656.0	877.7	857.8	852.0	713.3	520.6
87.5°	466.7	474.1	479.1	478.3	459.2	614.5	809.6	778.1	785.5	666.8	503.2
90°	418.5	431.8	431.0	433.5	417.7	555.5	734.1	708.3	718.3	601.2	457.5
92.5°	342.1	351.3	360.4	377.8	354.6	472.5	620.3	596.2	608.7	511.5	389.4
95°	318.0	326.3	332.2	341.3	318.0	420.2	548.9	519.8	524.8	434.3	329.7
97.5°	257.4	262.4	269.0	270.7	254.1	323.0	417.7	392.8	396.1	337.1	259.1
100°	215.9	220.1	225.9	225.9	215.1	267.4	330.5	317.2	315.5	275.7	219.2
102.5°	204.3	205.9	215.1	213.4	202.6	246.6	298.9	290.6	291.5	255.8	205.9
105°	201.0	201.0	210.1	205.9	196.8	235.0	279.8	277.3	276.5	243.3	197.6
107.5°	197.6	197.6	206.8	202.6	195.1	221.7	263.2	254.9	254.1	231.7	186.8
110°	184.3	186.8	196.8	191.8	186.0	209.3	241.6	235.8	235.8	218.4	178.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	163.6	165.2	174.4	170.2	166.1	186.0	214.2	206.8	207.6	196.0	166.9
115°	152.8	155.3	164.4	158.6	155.3	173.5	198.5	193.5	195.1	184.3	157.8
117.5°	153.6	154.5	161.1	161.9	155.3	170.2	183.5	185.2	187.7	181.0	160.3
120°	186.8	182.7	186.0	181.9	178.5	196.0	211.7	213.4	212.6	200.1	159.4
122.5°	188.5	180.2	189.3	183.5	180.2	199.3	216.7	220.9	216.7	205.9	162.8
125°	150.3	152.8	153.6	155.3	158.6	179.4	188.5	189.3	190.2	186.8	157.8
127.5°	132.0	131.2	127.0	127.9	135.4	153.6	160.3	165.2	161.9	160.3	142.0
130°	126.2	127.9	127.0	127.0	131.2	145.3	150.3	157.8	155.3	152.0	129.5
132.5°	116.3	117.9	125.4	134.5	132.9	137.8	139.5	147.0	147.8	147.8	130.4
135°	110.4	112.1	117.9	129.5	126.2	128.7	127.9	134.5	135.4	136.2	122.9
137.5°	112.9	113.8	110.4	112.1	114.6	125.4	128.7	135.4	135.4	132.0	114.6
140°	118.7	118.7	111.3	108.8	113.8	130.4	137.0	147.8	146.1	140.3	118.7
142.5°	109.6	111.3	115.4	120.4	131.2	176.9	176.9	197.6	204.3	205.9	143.7
145°	142.8	143.7	145.3	147.8	168.6	231.7	210.9	225.9	231.7	237.5	172.7
147.5°	164.4	166.1	164.4	157.8	176.9	198.5	188.5	195.1	201.8	203.4	173.5
150°	128.7	127.0	126.2	125.4	146.1	152.8	144.5	143.7	148.6	152.8	134.5
152.5°	93.8	93.0	92.2	91.3	109.6	105.5	99.6	99.6	101.3	102.1	94.7
155°	83.0	82.2	80.5	81.4	93.0	88.9	83.9	82.2	83.9	83.0	78.9
157.5°	68.1	66.4	66.4	69.8	75.6	70.6	67.3	64.8	65.6	64.8	65.6
160°	56.5	55.6	56.5	60.6	63.9	59.8	56.5	54.8	54.8	56.5	59.8
162.5°	50.7	49.8	50.7	52.3	54.0	49.8	47.3	47.3	48.2	51.5	58.1
165°	44.0	44.0	44.8	45.7	46.5	44.0	43.2	43.2	44.8	49.8	57.3
167.5°	42.3	42.3	42.3	42.3	42.3	41.5	40.7	43.2	44.8	47.3	52.3
170°	41.5	40.7	41.5	41.5	41.5	41.5	41.5	44.0	44.0	44.8	47.3
172.5°	42.3	42.3	42.3	43.2	44.8	45.7	44.8	46.5	45.7	45.7	45.7
175°	43.2	43.2	44.0	44.8	45.7	46.5	47.3	47.3	47.3	48.2	48.2
177.5°	43.2	43.2	44.0	44.8	45.7	44.0	42.3	41.5	40.7	40.7	40.7
180°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9	259.9
2.5°	235.0	214.2	185.2	197.6	235.8	228.4	190.2	166.9	168.6	185.2	186.8
5°	137.0	141.2	160.3	200.1	207.6	171.9	138.7	133.7	161.1	199.3	206.8
7.5°	123.7	123.7	139.5	194.3	218.4	179.4	135.4	122.1	142.8	174.4	179.4
10°	149.5	144.5	146.1	166.1	175.2	143.7	121.2	115.4	127.0	131.2	129.5
12.5°	168.6	171.9	187.7	183.5	143.7	117.1	109.6	108.8	115.4	119.6	118.7
15°	181.0	175.2	163.6	150.3	137.0	122.1	111.3	104.6	97.2	93.8	93.8
17.5°	192.6	181.0	160.3	147.8	134.5	123.7	113.8	103.8	100.5	101.3	101.3
20°	206.8	192.6	173.5	159.4	143.7	128.7	116.3	105.5	103.0	103.8	103.0
22.5°	217.6	205.1	185.2	166.9	150.3	133.7	121.2	110.4	107.1	106.3	106.3
25°	230.8	220.1	199.3	176.9	156.9	141.2	130.4	117.9	112.1	110.4	110.4
27.5°	248.3	239.2	215.9	191.8	168.6	150.3	138.7	125.4	117.1	113.8	112.9
30°	274.9	262.4	236.7	206.8	182.7	163.6	149.5	132.9	122.9	117.1	116.3
32.5°	314.7	298.9	264.9	227.5	198.5	178.5	161.1	140.3	127.9	121.2	120.4
35°	399.4	382.0	338.8	286.5	244.1	203.4	176.0	148.6	132.9	124.6	123.7
37.5°	452.6	421.0	368.7	321.4	269.9	245.8	210.9	174.4	139.5	128.7	127.0
40°	529.8	489.1	423.5	359.6	269.0	268.2	245.0	212.6	164.4	136.2	133.7
42.5°	587.1	534.8	452.6	381.1	271.5	279.0	259.1	230.8	195.1	158.6	154.5
45°	704.2	637.7	507.4	400.2	274.9	291.5	271.5	241.6	210.1	184.3	181.9
47.5°	923.4	831.2	613.7	436.8	312.2	333.0	297.3	262.4	231.7	205.9	200.1
50°	1229.8	1119.4	742.4	469.2	376.2	423.5	365.4	312.2	275.7	255.8	249.9
52.5°	1589.4	1465.6	822.9	519.8	453.4	534.8	470.8	408.5	360.4	363.7	360.4
55°	1990.4	1844.3	893.5	596.2	552.2	658.5	588.7	534.8	509.0	581.3	585.4
57.5°	2377.4	2221.3	937.5	676.8	662.6	801.3	719.9	681.7	691.7	903.5	953.3
60°	2746.9	2500.3	971.5	752.3	755.6	913.4	851.1	843.7	874.4	1145.9	1221.5
62.5°	2960.3	2643.1	969.9	801.3	813.8	982.3	927.5	931.7	954.9	1185.8	1248.9
65°	3105.6	2715.3	953.3	826.2	838.7	1007.3	936.7	904.3	889.3	1047.1	1114.4
67.5°	3018.4	2575.8	913.4	804.6	821.2	967.4	879.4	798.0	772.3	857.8	897.6
70°	2551.8	2152.4	813.8	731.6	742.4	816.3	741.5	652.7	626.9	671.8	690.0
72.5°	1928.1	1652.5	729.9	675.9	650.2	675.1	602.0	509.0	503.2	527.3	530.6
75°	1540.4	1297.1	665.1	609.5	540.6	566.3	478.3	378.7	371.2	372.8	364.5
77.5°	1160.9	964.9	559.7	480.0	409.4	451.7	355.4	261.6	249.1	244.1	235.0
80°	794.7	670.1	380.3	321.4	290.6	331.3	253.3	191.8	191.0	189.3	179.4
82.5°	563.8	517.3	310.6	273.2	246.6	260.7	220.1	179.4	175.2	176.0	165.2
85°	493.2	468.3	299.8	276.5	250.8	249.9	210.1	167.7	166.1	166.9	156.9
87.5°	471.7	444.3	293.1	264.1	239.2	226.7	185.2	147.8	152.0	154.5	145.3
90°	422.7	394.4	265.7	235.8	211.7	190.2	156.9	133.7	140.3	142.0	133.7
92.5°	356.2	327.2	206.8	189.3	177.7	174.4	147.0	127.0	132.0	132.9	126.2
95°	301.4	274.9	180.2	166.9	158.6	157.8	132.9	115.4	117.9	117.1	111.3
97.5°	242.5	223.4	157.8	145.3	136.2	131.2	113.8	100.5	103.8	105.5	101.3
100°	206.8	196.0	147.0	136.2	125.4	118.7	103.8	93.0	96.3	99.6	96.3
102.5°	194.3	186.0	144.5	132.9	121.2	112.9	98.8	87.2	88.9	93.0	90.5
105°	184.3	176.9	140.3	127.9	117.1	107.9	96.3	82.2	81.4	85.5	84.7
107.5°	173.5	166.9	137.8	122.9	111.3	103.0	92.2	78.9	75.6	78.1	77.2
110°	167.7	161.1	132.9	117.1	104.6	97.2	87.2	76.4	72.2	73.1	73.1



REPORT NUMBER: P856214

CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	156.1	148.6	122.1	107.1	97.2	90.5	80.5	73.1	68.1	69.8	70.6
115°	148.6	138.7	112.1	101.3	90.5	84.7	78.9	72.2	66.4	66.4	67.3
117.5°	153.6	134.5	104.6	96.3	90.5	88.9	87.2	77.2	65.6	64.8	64.8
120°	147.0	135.4	113.8	111.3	105.5	100.5	89.7	76.4	63.9	62.3	62.3
122.5°	143.7	141.2	128.7	120.4	109.6	99.6	83.9	69.8	61.4	59.8	59.8
125°	142.0	139.5	124.6	108.8	94.7	84.7	74.7	65.6	60.6	58.1	58.1
127.5°	130.4	118.7	100.5	91.3	82.2	78.1	69.8	63.9	58.1	54.8	54.8
130°	120.4	109.6	93.8	83.9	76.4	73.1	67.3	61.4	55.6	52.3	51.5
132.5°	118.7	107.9	91.3	78.9	72.2	68.9	65.6	59.0	52.3	49.0	48.2
135°	110.4	98.0	81.4	74.7	70.6	68.1	65.6	57.3	50.7	47.3	47.3
137.5°	102.1	89.7	77.2	73.9	70.6	68.1	60.6	52.3	47.3	44.8	44.8
140°	103.0	88.9	78.9	76.4	71.4	63.9	57.3	51.5	47.3	44.0	43.2
142.5°	109.6	92.2	79.7	72.2	68.9	64.8	62.3	55.6	47.3	41.5	39.9
145°	120.4	99.6	89.7	86.4	80.5	73.1	63.9	51.5	43.2	38.2	37.4
147.5°	132.9	112.1	100.5	91.3	79.7	67.3	54.8	44.8	38.2	36.5	35.7
150°	115.4	95.5	86.4	73.9	63.9	54.0	44.8	39.9	36.5	35.7	35.7
152.5°	87.2	71.4	63.9	58.1	52.3	47.3	42.3	39.0	36.5	34.9	34.9
155°	75.6	67.3	59.8	54.0	48.2	43.2	39.0	37.4	34.9	34.9	34.0
157.5°	66.4	62.3	52.3	47.3	43.2	40.7	39.0	36.5	35.7	34.9	34.9
160°	60.6	58.1	48.2	44.0	41.5	39.9	39.9	38.2	35.7	34.9	34.9
162.5°	59.0	56.5	46.5	42.3	39.9	40.7	42.3	41.5	38.2	36.5	36.5
165°	58.1	56.5	47.3	41.5	39.9	40.7	44.8	45.7	41.5	39.0	38.2
167.5°	53.1	52.3	49.8	45.7	43.2	43.2	45.7	46.5	44.8	44.8	44.0
170°	48.2	48.2	49.0	49.8	48.2	45.7	44.0	44.0	46.5	49.0	49.8
172.5°	46.5	47.3	49.0	51.5	51.5	48.2	45.7	44.8	47.3	50.7	51.5
175°	49.0	49.8	50.7	50.7	49.0	48.2	47.3	46.5	48.2	51.5	52.3
177.5°	40.7	40.7	41.5	41.5	40.7	41.5	40.7	39.0	39.0	39.0	39.0
180°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2

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

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

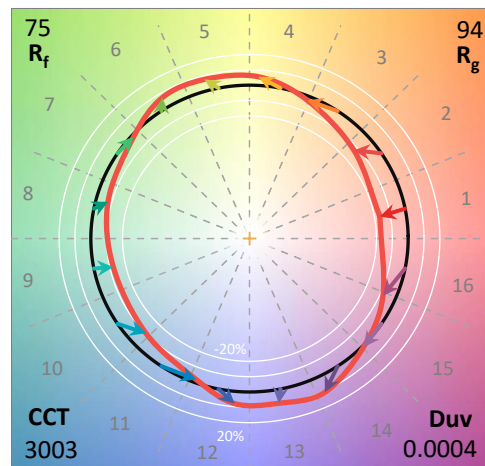
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra):	71.9		
R1:	68.2	R9:	-33.7
R2:	82.2	R10:	59.0
R3:	93.9	R11:	62.4
R4:	67.6	R12:	48.5
R5:	67.2	R13:	70.8
R6:	75.3	R14:	96.6
R7:	77.6	R15:	60.0
R8:	43.1		



Test Conditions

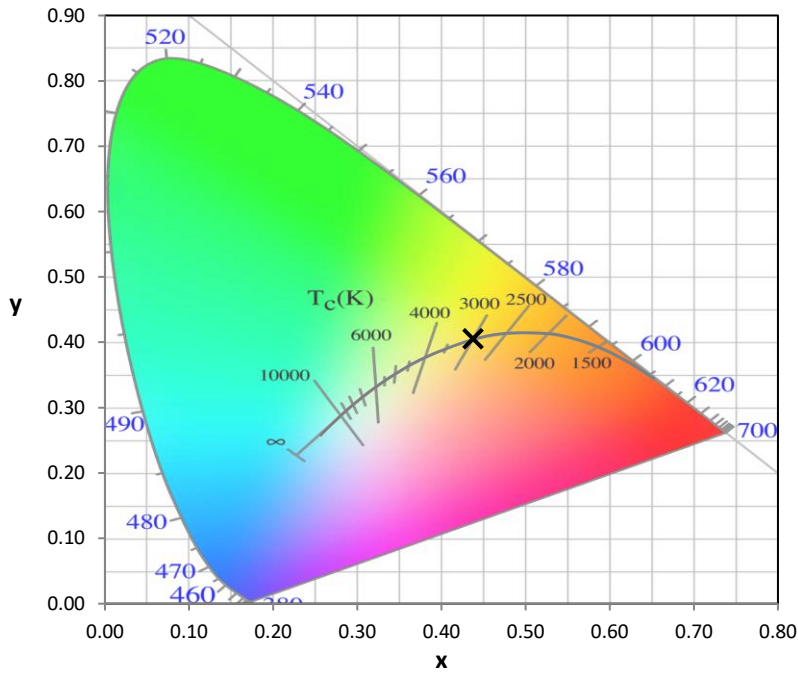
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

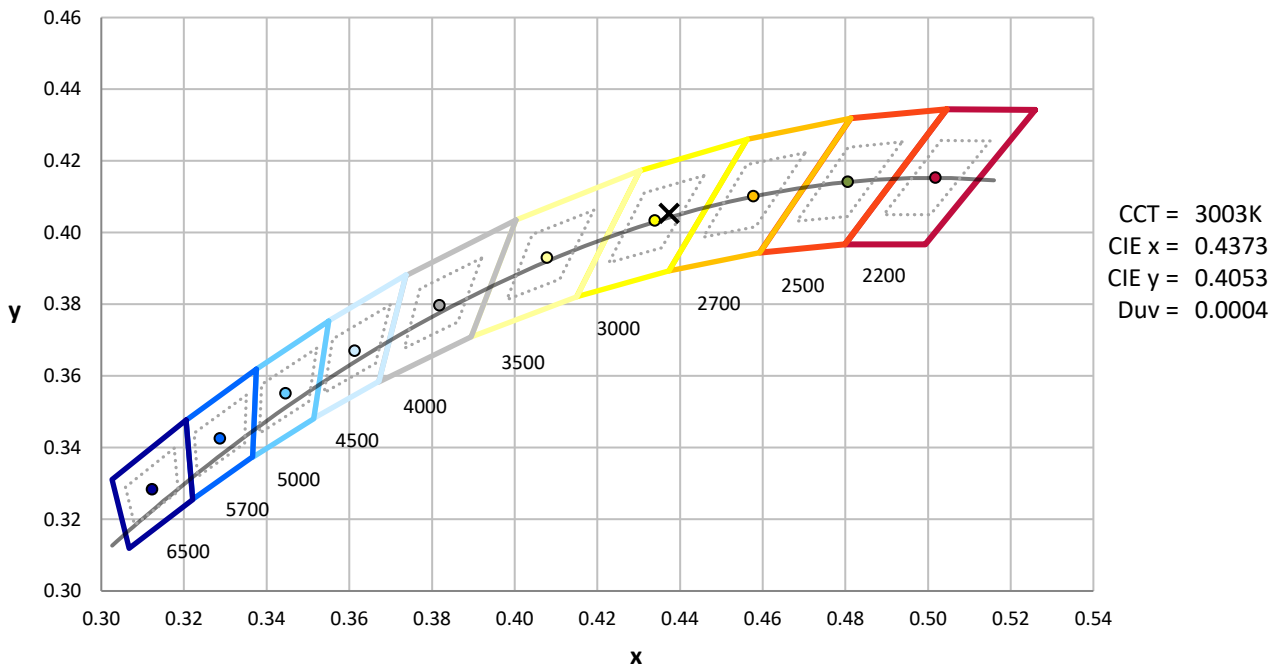
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



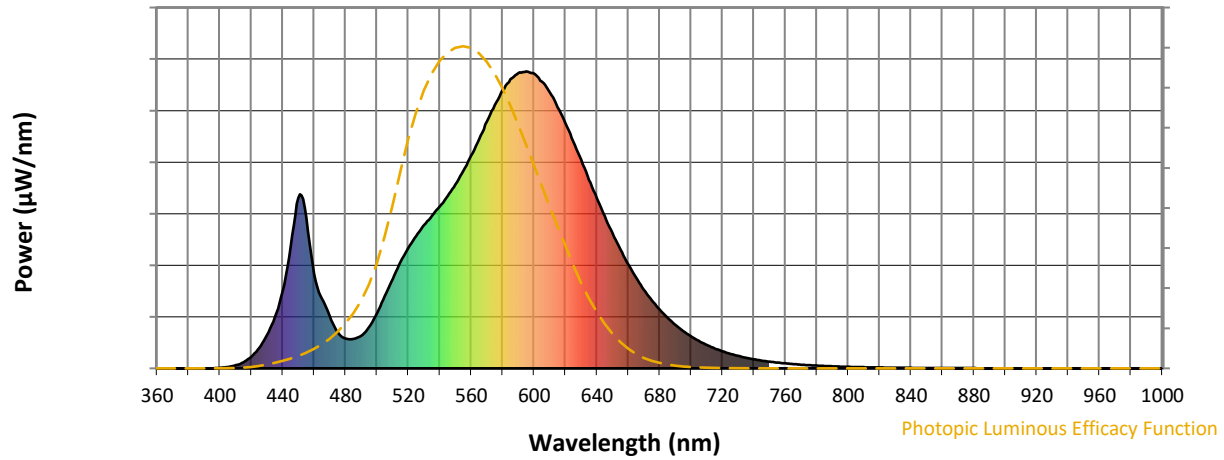
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

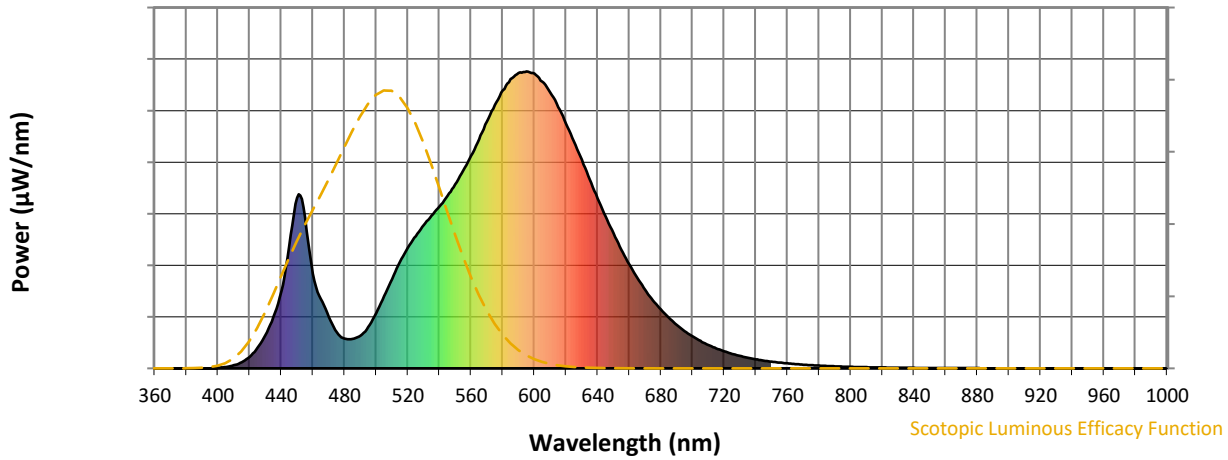


Photopic Lumens: NR

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



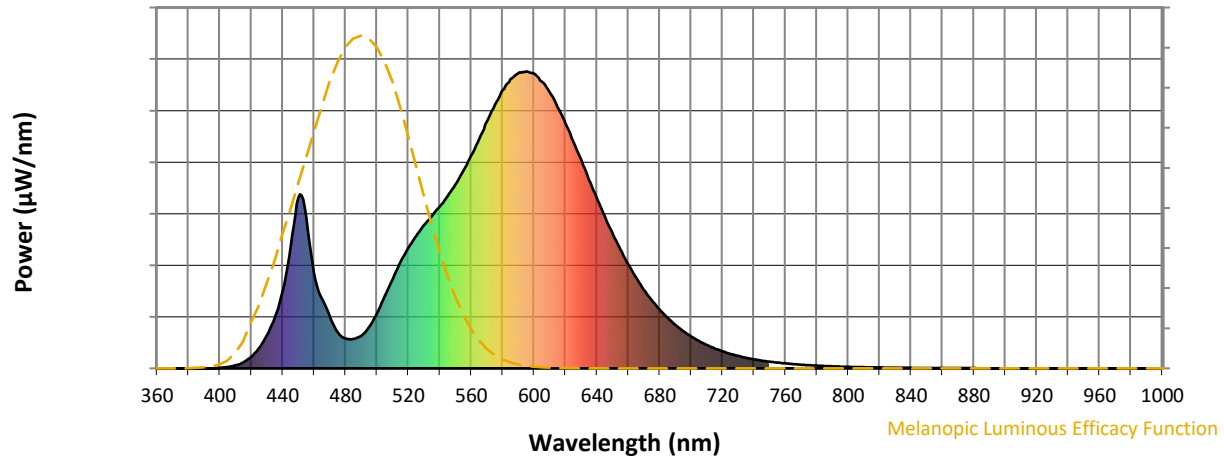
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

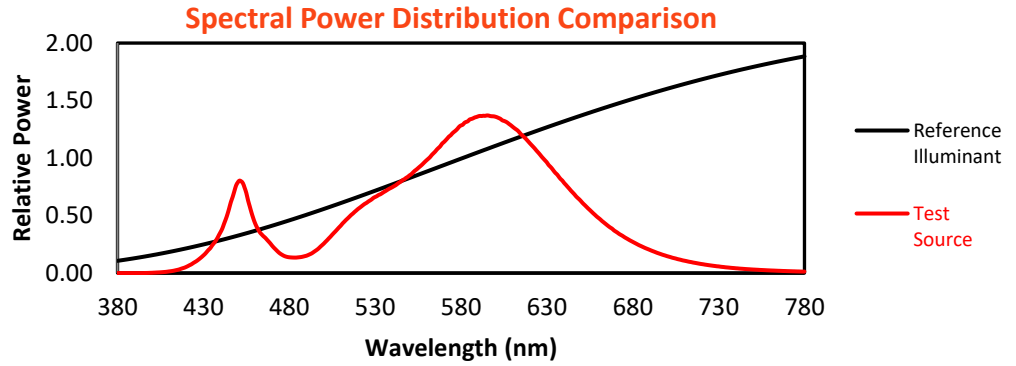
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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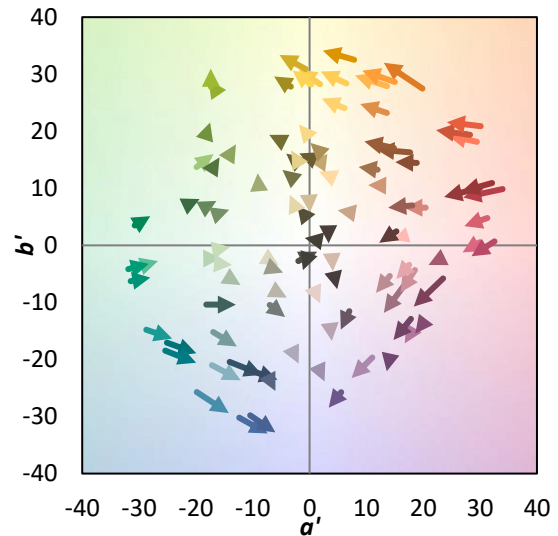
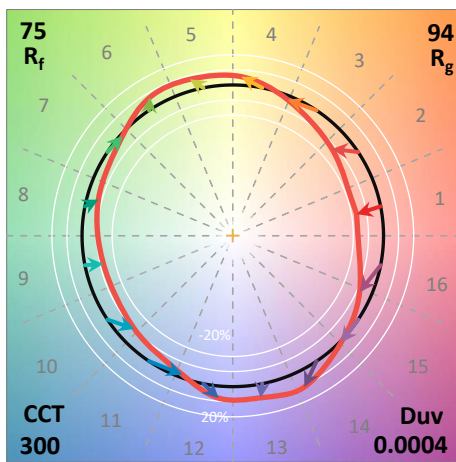
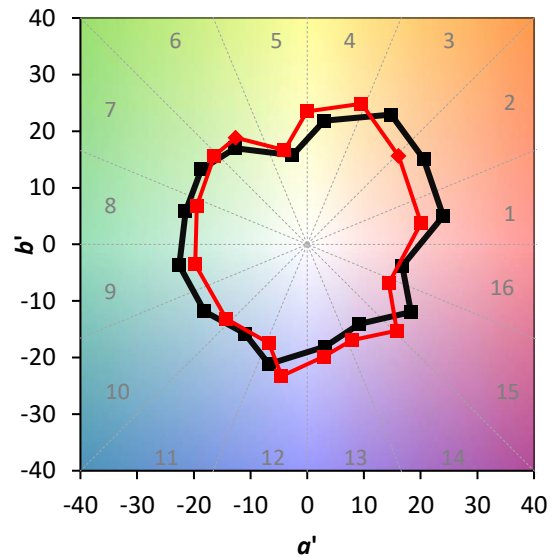
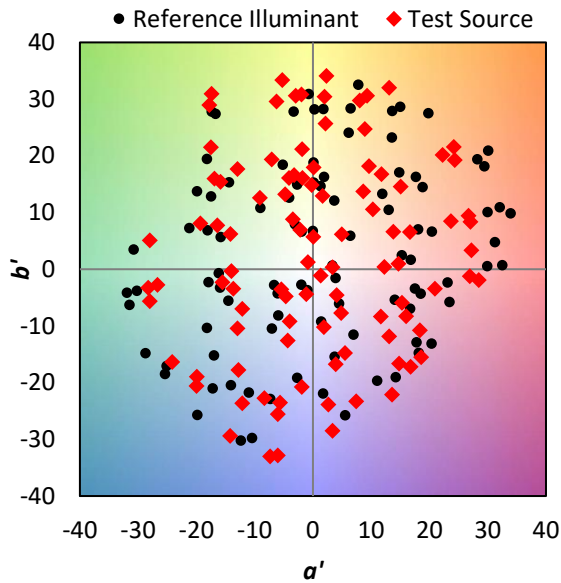
TM-30-18

Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_9 = -33.7$



Color Vector Graphics

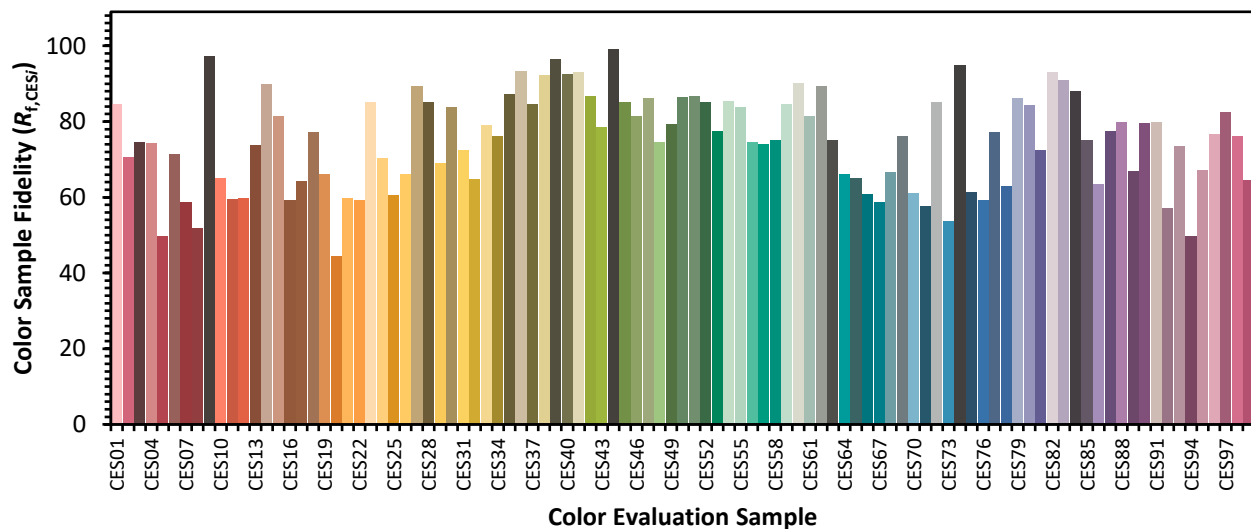


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TM-30-18

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

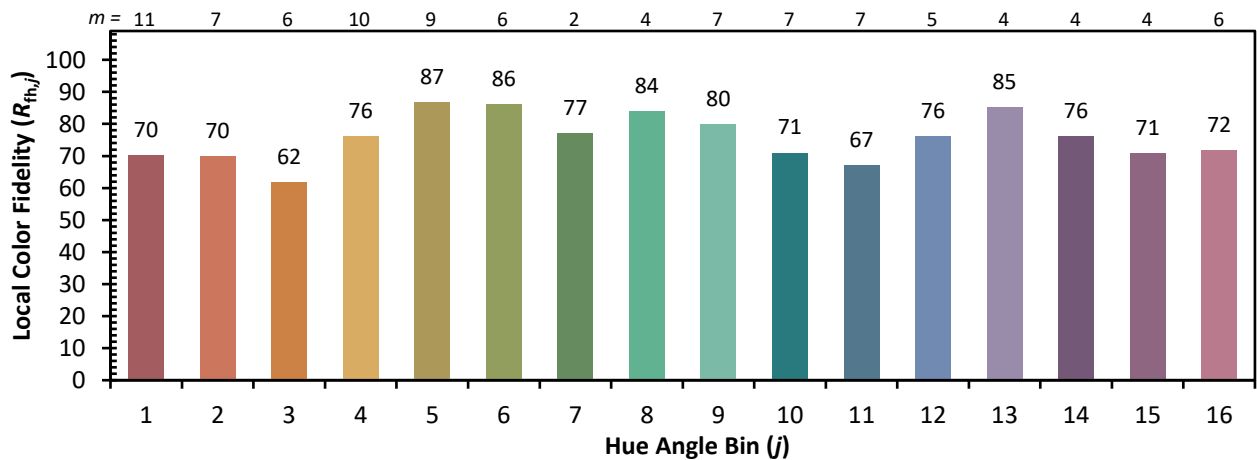
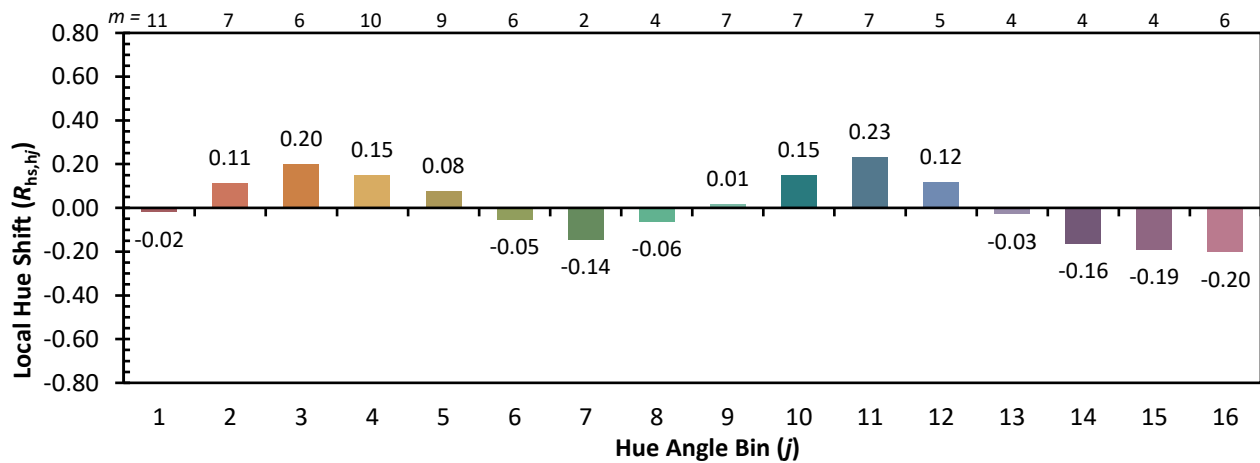
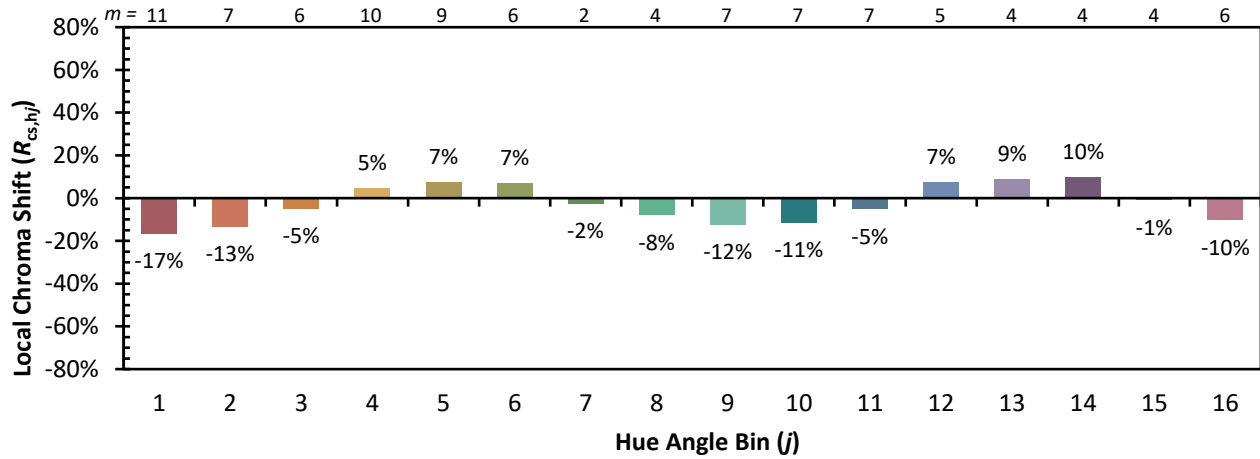
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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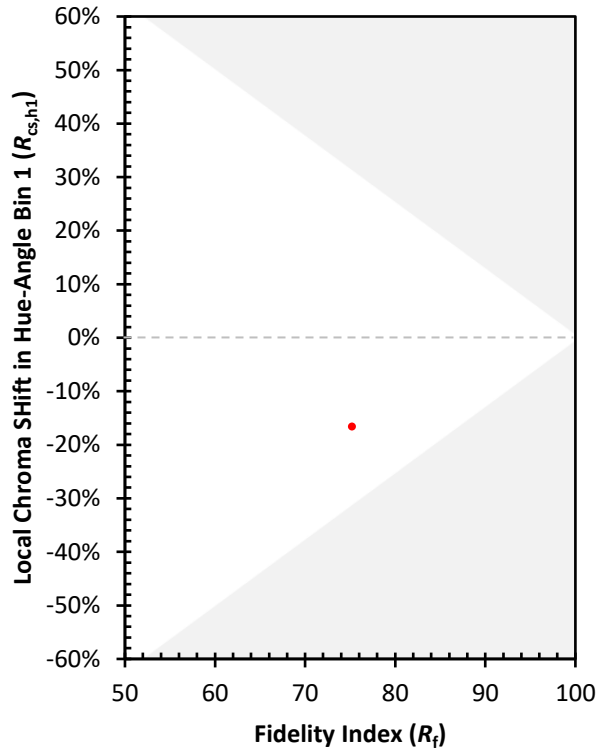
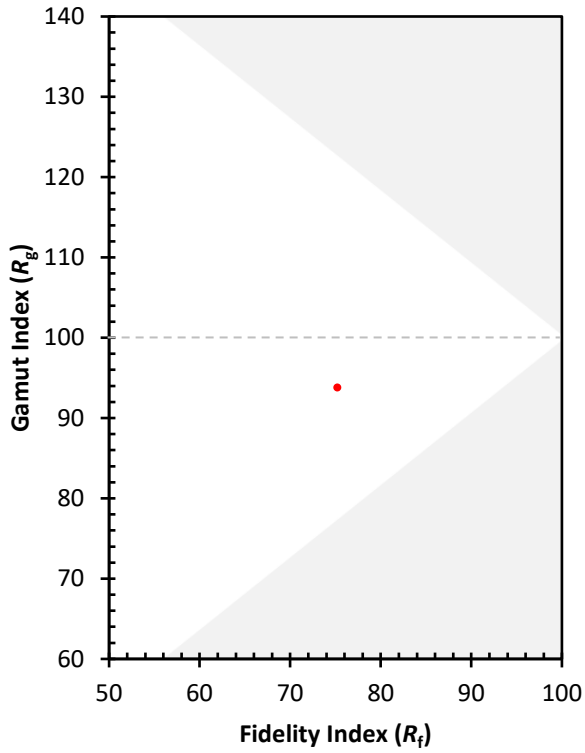
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)