

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: P856223

Luminaire Tested: **FFX-CLB-50-740-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856223
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-740-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

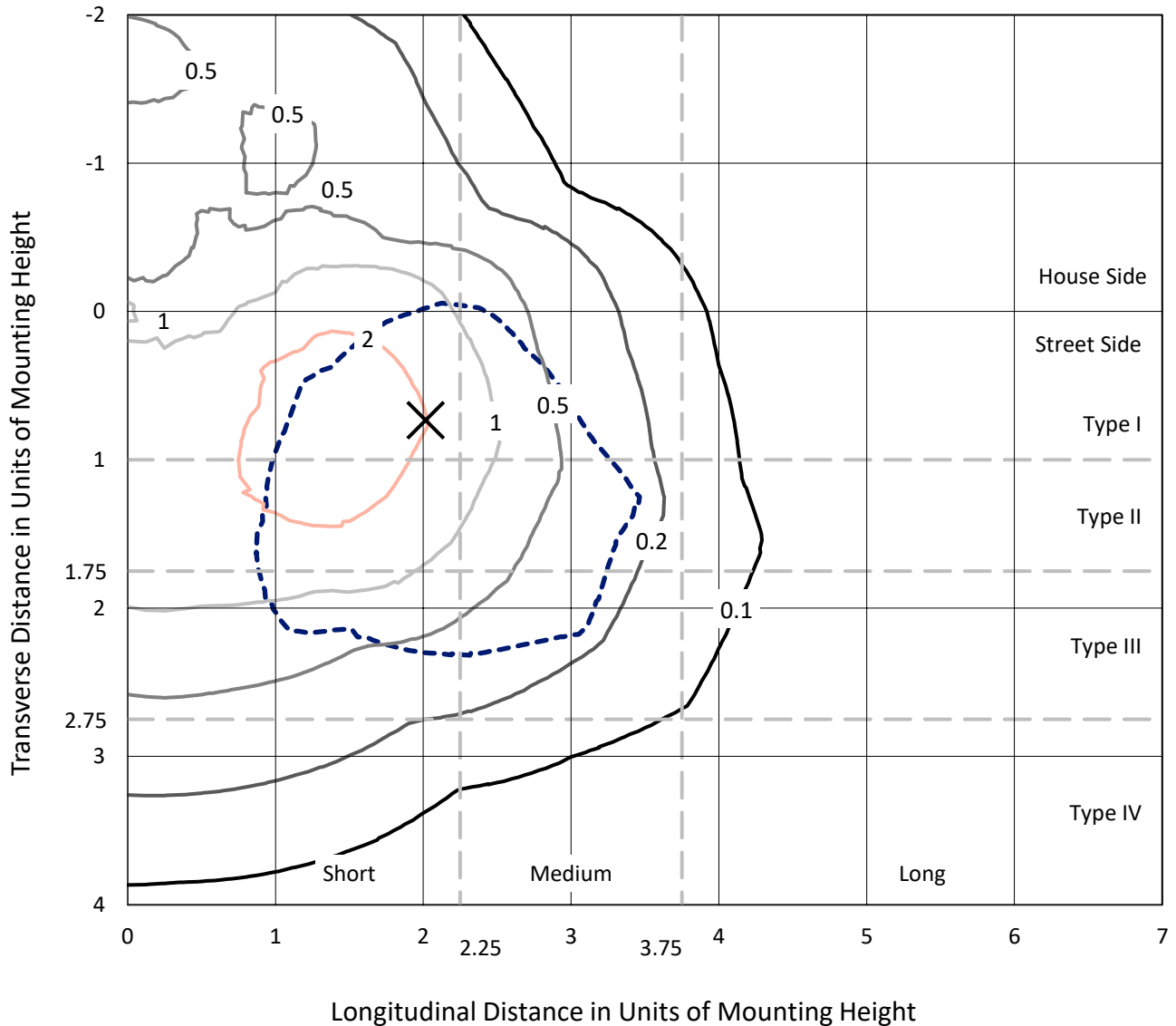
Lumens per Lamp: N/A
Luminaire Lumens: 8094.4 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

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

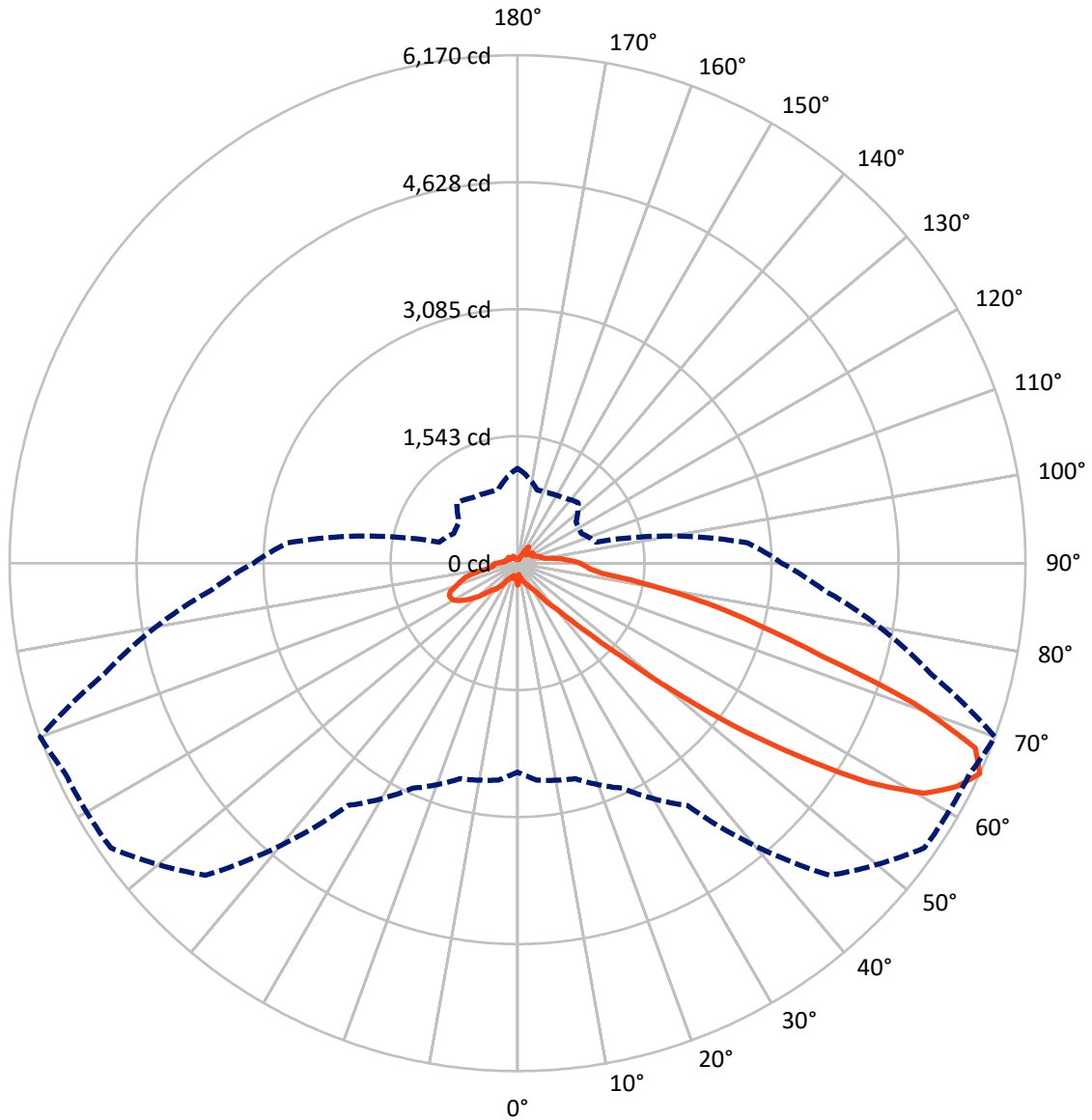
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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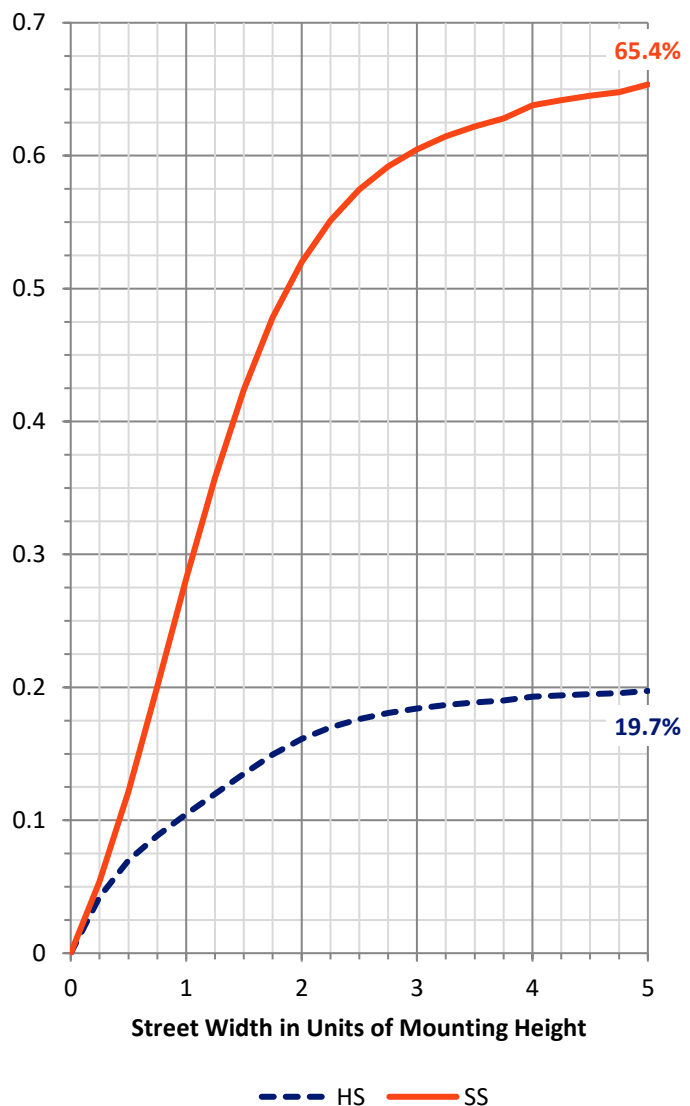
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1660.2	311.0	1971.2
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	5474.4	648.8	6123.2
	% Fixture	67.6	8.0	75.6
Total	Lumens	7134.6	959.8	8094.4
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	0.2
10°-20°	54.1	0.7
20°-30°	109.3	1.3
30°-40°	231.2	2.9
40°-50°	539.0	6.7
50°-60°	1606.4	19.8
60°-70°	2574.1	31.8
70°-80°	1478.7	18.3
80°-90°	524.4	6.5
90°-100°	309.3	3.8
100°-110°	186.9	2.3
110°-120°	140.5	1.7
120°-130°	119.0	1.5
130°-140°	79.0	1.0
140°-150°	74.2	0.9
150°-160°	32.9	0.4
160°-170°	13.6	0.2
170°-180°	4.5	0.1
0°-90°	7134.6	88.1
0°-180°	8094.4	100.0



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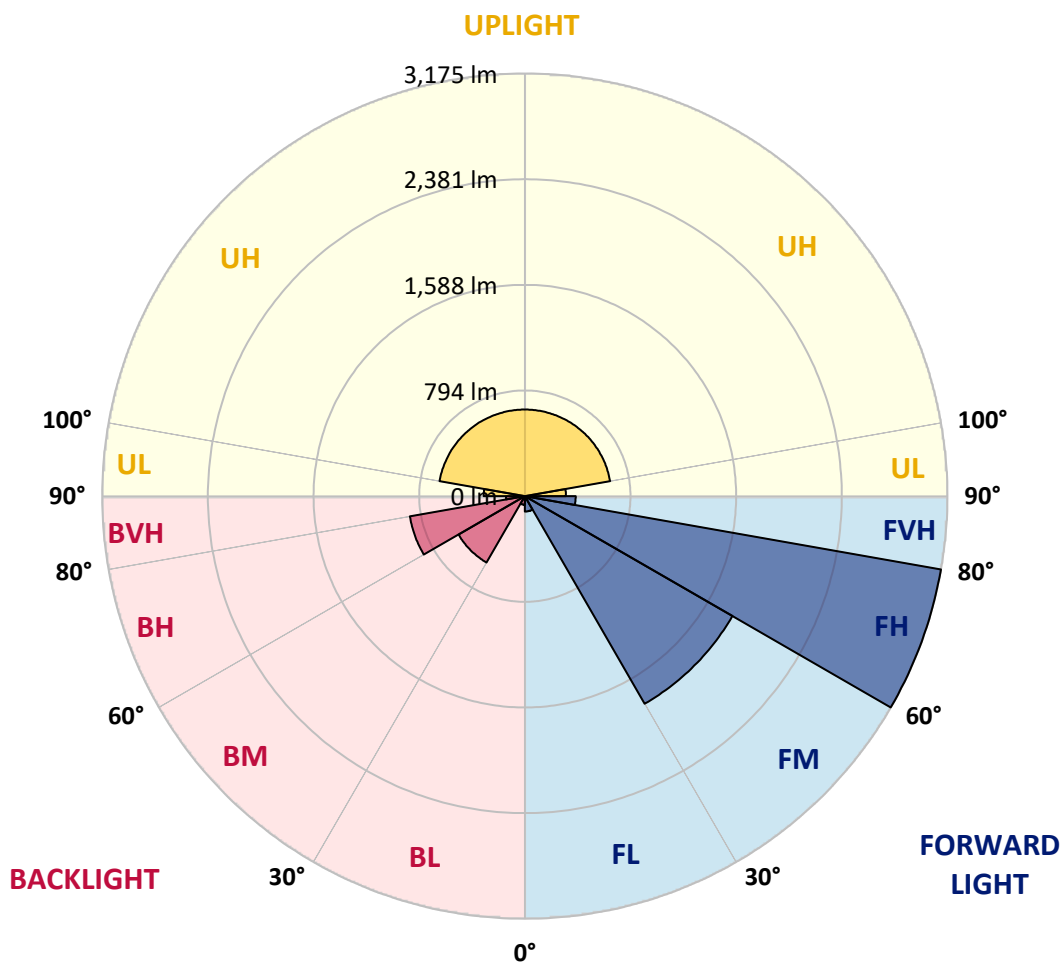
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.0	1.4			
FM (30°-60°)	1801.0	22.3			
FH (60°-80°)	3175.3	39.2			G2/5000
FVH (80°-90°)	382.0	4.7			G3/500
BL (0°-30°)	64.7	0.8	B0/110		
BM (30°-60°)	575.6	7.1	B1/1000		
BH (60°-80°)	877.5	10.8	B2/1000		G2/1000
BVH (80°-90°)	142.4	1.8			G2/225
UL (90°-100°)	309.3	3.8		U3/500	
UH (100°-180°)	650.5	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°	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
2.5°	223.9	222.2	226.5	229.9	234.2	228.2	217.9	228.2	231.6	241.9	249.6
5°	190.4	191.3	195.6	205.0	213.6	211.9	185.3	151.0	140.7	136.4	137.3
7.5°	188.7	187.9	185.3	184.4	189.6	208.5	205.9	181.0	162.1	145.8	129.5
10°	199.0	201.6	204.2	204.2	200.7	188.7	187.9	186.1	179.3	171.6	161.3
12.5°	246.2	249.6	252.2	243.6	232.5	220.5	211.0	195.6	188.7	184.4	176.7
15°	297.7	301.1	296.8	280.5	260.8	238.5	229.9	230.8	221.3	210.2	193.9
17.5°	325.1	323.4	305.4	286.5	271.1	253.9	241.9	234.2	230.8	226.5	210.2
20°	308.0	303.7	292.5	284.8	283.1	273.6	265.9	259.1	254.8	245.3	225.6
22.5°	295.1	295.1	293.4	291.7	302.0	297.7	294.2	284.8	278.8	266.8	237.6
25°	311.4	311.4	312.3	309.7	323.4	323.4	323.4	313.1	305.4	288.2	253.1
27.5°	334.6	333.7	336.3	334.6	346.6	349.1	354.3	346.6	335.4	314.8	270.2
30°	359.4	359.4	362.0	363.7	375.7	381.7	387.7	384.3	370.6	345.7	299.4
32.5°	386.0	385.2	392.9	401.5	408.3	419.5	422.1	430.6	416.9	387.7	342.3
35°	424.6	427.2	447.8	465.8	485.5	492.4	504.4	537.9	524.1	484.7	432.3
37.5°	614.2	601.3	596.2	575.6	573.0	613.4	627.9	659.7	632.2	579.0	499.3
40°	651.1	635.7	628.8	609.1	615.9	699.1	684.6	798.6	731.7	646.8	595.3
42.5°	613.4	610.8	691.4	706.9	698.3	830.4	802.1	1013.1	941.9	744.6	687.1
45°	740.3	733.4	767.8	795.2	816.7	1054.3	1037.1	1259.3	1228.4	906.7	850.1
47.5°	835.5	828.7	868.1	959.9	1085.2	1342.5	1442.9	1778.3	1673.6	1247.3	1118.6
50°	1120.3	1116.0	1222.4	1321.1	1527.8	1907.8	2183.2	2545.2	2391.6	1742.3	1505.5
52.5°	1389.7	1403.4	1527.8	1717.4	1936.1	2622.4	3015.3	3269.2	3267.5	2269.0	1932.7
55°	1582.7	1629.0	1775.7	2118.0	2421.7	3256.3	3786.5	3974.3	4132.2	3027.3	2353.9
57.5°	1957.6	2038.2	2178.9	2517.7	2909.8	4023.2	4779.8	4749.0	5032.9	3813.9	2812.0
60°	2342.7	2437.1	2484.3	2795.7	3310.4	4761.8	5462.7	5390.6	5676.3	4498.5	3294.1
62.5°	2462.8	2555.5	2601.8	2940.7	3599.5	5180.5	5777.5	5805.8	5983.4	4986.6	3579.7
65°	2538.3	2644.7	2711.6	3017.0	3593.5	5363.2	6032.3	6058.9	6170.4	5196.8	3727.3
67.5°	2524.6	2643.8	2729.6	3003.3	3394.4	5211.3	5968.8	5848.7	5998.0	5046.6	3572.0
70°	2251.8	2355.6	2441.4	2652.4	2833.4	4390.4	5164.2	4966.0	5120.4	4216.2	2949.2
72.5°	1840.1	1882.9	1957.6	2057.1	2147.2	3257.2	3939.2	3769.3	3858.5	3162.8	2209.8
75°	1511.5	1502.9	1569.8	1641.9	1613.6	2379.6	3116.5	2961.2	3044.4	2401.9	1762.8
77.5°	1120.3	1116.0	1213.0	1207.0	1164.1	1647.9	2470.6	2358.2	2369.3	1774.0	1320.2
80°	673.4	686.3	780.6	799.5	748.9	1033.7	1763.7	1710.5	1630.7	1212.1	925.6
82.5°	472.7	492.4	542.2	562.7	537.9	754.9	1168.4	1131.5	1037.1	879.3	652.0
85°	482.1	485.5	491.5	493.3	482.1	677.7	906.7	886.1	880.1	736.9	537.9
87.5°	482.1	489.8	495.0	494.1	474.4	634.8	836.4	803.8	811.5	688.8	519.8
90°	432.3	446.1	445.2	447.8	431.5	573.9	758.3	731.7	742.0	621.1	472.7
92.5°	353.4	362.9	372.3	390.3	366.3	488.1	640.8	615.9	628.8	528.4	402.3
95°	328.5	337.1	343.1	352.6	328.5	434.1	567.0	537.0	542.2	448.6	340.6
97.5°	265.9	271.1	277.9	279.7	262.5	333.7	431.5	405.8	409.2	348.3	267.6
100°	223.0	227.3	233.3	233.3	222.2	276.2	341.4	327.7	326.0	284.8	226.5
102.5°	211.0	212.7	222.2	220.5	209.3	254.8	308.8	300.2	301.1	264.2	212.7
105°	207.6	207.6	217.0	212.7	203.3	242.8	289.1	286.5	285.7	251.3	204.2
107.5°	204.2	204.2	213.6	209.3	201.6	229.0	271.9	263.4	262.5	239.3	193.0
110°	190.4	193.0	203.3	198.2	192.2	216.2	249.6	243.6	243.6	225.6	184.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	169.0	170.7	180.1	175.9	171.6	192.2	221.3	213.6	214.5	202.4	172.4
115°	157.8	160.4	169.9	163.8	160.4	179.3	205.0	199.9	201.6	190.4	163.0
117.5°	158.7	159.6	166.4	167.3	160.4	175.9	189.6	191.3	193.9	187.0	165.6
120°	193.0	188.7	192.2	187.9	184.4	202.4	218.7	220.5	219.6	206.7	164.7
122.5°	194.7	186.1	195.6	189.6	186.1	205.9	223.9	228.2	223.9	212.7	168.1
125°	155.3	157.8	158.7	160.4	163.8	185.3	194.7	195.6	196.4	193.0	163.0
127.5°	136.4	135.5	131.2	132.1	139.8	158.7	165.6	170.7	167.3	165.6	146.7
130°	130.4	132.1	131.2	131.2	135.5	150.1	155.3	163.0	160.4	157.0	133.8
132.5°	120.1	121.8	129.5	139.0	137.3	142.4	144.1	151.8	152.7	152.7	134.7
135°	114.1	115.8	121.8	133.8	130.4	133.0	132.1	139.0	139.8	140.7	127.0
137.5°	116.7	117.5	114.1	115.8	118.4	129.5	133.0	139.8	139.8	136.4	118.4
140°	122.7	122.7	114.9	112.4	117.5	134.7	141.5	152.7	151.0	145.0	122.7
142.5°	113.2	114.9	119.2	124.4	135.5	182.7	182.7	204.2	211.0	212.7	148.4
145°	147.5	148.4	150.1	152.7	174.1	239.3	217.9	233.3	239.3	245.3	178.4
147.5°	169.9	171.6	169.9	163.0	182.7	205.0	194.7	201.6	208.5	210.2	179.3
150°	133.0	131.2	130.4	129.5	151.0	157.8	149.3	148.4	153.6	157.8	139.0
152.5°	96.9	96.1	95.2	94.4	113.2	108.9	102.9	102.9	104.7	105.5	97.8
155°	85.8	84.9	83.2	84.1	96.1	91.8	86.6	84.9	86.6	85.8	81.5
157.5°	70.3	68.6	68.6	72.1	78.1	72.9	69.5	66.9	67.8	66.9	67.8
160°	58.3	57.5	58.3	62.6	66.1	61.8	58.3	56.6	56.6	58.3	61.8
162.5°	52.3	51.5	52.3	54.0	55.8	51.5	48.9	48.9	49.8	53.2	60.0
165°	45.5	45.5	46.3	47.2	48.0	45.5	44.6	44.6	46.3	51.5	59.2
167.5°	43.7	43.7	43.7	43.7	43.7	42.9	42.0	44.6	46.3	48.9	54.0
170°	42.9	42.0	42.9	42.9	42.9	42.9	42.9	45.5	45.5	46.3	48.9
172.5°	43.7	43.7	43.7	44.6	46.3	47.2	46.3	48.0	47.2	47.2	47.2
175°	44.6	44.6	45.5	46.3	47.2	48.0	48.9	48.9	48.9	49.8	49.8
177.5°	44.6	44.6	45.5	46.3	47.2	45.5	43.7	42.9	42.0	42.0	42.0
180°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
2.5°	242.8	221.3	191.3	204.2	243.6	235.9	196.4	172.4	174.1	191.3	193.0
5°	141.5	145.8	165.6	206.7	214.5	177.6	143.3	138.1	166.4	205.9	213.6
7.5°	127.8	127.8	144.1	200.7	225.6	185.3	139.8	126.1	147.5	180.1	185.3
10°	154.4	149.3	151.0	171.6	181.0	148.4	125.2	119.2	131.2	135.5	133.8
12.5°	174.1	177.6	193.9	189.6	148.4	121.0	113.2	112.4	119.2	123.5	122.7
15°	187.0	181.0	169.0	155.3	141.5	126.1	114.9	108.1	100.4	96.9	96.9
17.5°	199.0	187.0	165.6	152.7	139.0	127.8	117.5	107.2	103.8	104.7	104.7
20°	213.6	199.0	179.3	164.7	148.4	133.0	120.1	108.9	106.4	107.2	106.4
22.5°	224.8	211.9	191.3	172.4	155.3	138.1	125.2	114.1	110.7	109.8	109.8
25°	238.5	227.3	205.9	182.7	162.1	145.8	134.7	121.8	115.8	114.1	114.1
27.5°	256.5	247.1	223.0	198.2	174.1	155.3	143.3	129.5	121.0	117.5	116.7
30°	283.9	271.1	244.5	213.6	188.7	169.0	154.4	137.3	127.0	121.0	120.1
32.5°	325.1	308.8	273.6	235.0	205.0	184.4	166.4	145.0	132.1	125.2	124.4
35°	412.6	394.6	350.0	296.0	252.2	210.2	181.9	153.6	137.3	128.7	127.8
37.5°	467.5	434.9	380.9	332.0	278.8	253.9	217.9	180.1	144.1	133.0	131.2
40°	547.3	505.3	437.5	371.4	277.9	277.1	253.1	219.6	169.9	140.7	138.1
42.5°	606.5	552.4	467.5	393.7	280.5	288.2	267.6	238.5	201.6	163.8	159.6
45°	727.4	658.8	524.1	413.5	283.9	301.1	280.5	249.6	217.0	190.4	187.9
47.5°	953.9	858.7	633.9	451.2	322.5	344.0	307.1	271.1	239.3	212.7	206.7
50°	1270.5	1156.4	766.9	484.7	388.6	437.5	377.4	322.5	284.8	264.2	258.2
52.5°	1641.9	1514.1	850.1	537.0	468.4	552.4	486.4	422.1	372.3	375.7	372.3
55°	2056.2	1905.2	923.0	615.9	570.5	680.3	608.2	552.4	525.9	600.5	604.8
57.5°	2456.0	2294.7	968.5	699.1	684.6	827.8	743.7	704.3	714.6	933.3	984.8
60°	2837.7	2582.9	1003.7	777.2	780.6	943.6	879.3	871.6	903.3	1183.8	1261.9
62.5°	3058.2	2730.5	1001.9	827.8	840.7	1014.8	958.2	962.5	986.5	1225.0	1290.2
65°	3208.3	2805.1	984.8	853.5	866.4	1040.6	967.6	934.2	918.7	1081.7	1151.2
67.5°	3118.2	2661.0	943.6	831.2	848.4	999.4	908.4	824.4	797.8	886.1	927.3
70°	2636.1	2223.5	840.7	755.8	766.9	843.2	766.0	674.3	647.7	694.0	712.9
72.5°	1991.9	1707.1	754.0	698.3	671.7	697.4	621.9	525.9	519.8	544.7	548.2
75°	1591.3	1339.9	687.1	629.6	558.4	585.0	494.1	391.2	383.5	385.2	376.6
77.5°	1199.3	996.8	578.2	495.8	422.9	466.7	367.2	270.2	257.3	252.2	242.8
80°	820.9	692.3	392.9	332.0	300.2	342.3	261.6	198.2	197.3	195.6	185.3
82.5°	582.5	534.4	320.8	282.2	254.8	269.4	227.3	185.3	181.0	181.9	170.7
85°	509.6	483.8	309.7	285.7	259.1	258.2	217.0	173.3	171.6	172.4	162.1
87.5°	487.2	458.9	302.8	272.8	247.1	234.2	191.3	152.7	157.0	159.6	150.1
90°	436.6	407.5	274.5	243.6	218.7	196.4	162.1	138.1	145.0	146.7	138.1
92.5°	368.0	338.0	213.6	195.6	183.6	180.1	151.8	131.2	136.4	137.3	130.4
95°	311.4	283.9	186.1	172.4	163.8	163.0	137.3	119.2	121.8	121.0	114.9
97.5°	250.5	230.8	163.0	150.1	140.7	135.5	117.5	103.8	107.2	108.9	104.7
100°	213.6	202.4	151.8	140.7	129.5	122.7	107.2	96.1	99.5	102.9	99.5
102.5°	200.7	192.2	149.3	137.3	125.2	116.7	102.1	90.1	91.8	96.1	93.5
105°	190.4	182.7	145.0	132.1	121.0	111.5	99.5	84.9	84.1	88.4	87.5
107.5°	179.3	172.4	142.4	127.0	114.9	106.4	95.2	81.5	78.1	80.6	79.8
110°	173.3	166.4	137.3	121.0	108.1	100.4	90.1	78.9	74.6	75.5	75.5



REPORT NUMBER: P856223

CATALOG NUMBER: FFX-CLB-50-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	161.3	153.6	126.1	110.7	100.4	93.5	83.2	75.5	70.3	72.1	72.9
115°	153.6	143.3	115.8	104.7	93.5	87.5	81.5	74.6	68.6	68.6	69.5
117.5°	158.7	139.0	108.1	99.5	93.5	91.8	90.1	79.8	67.8	66.9	66.9
120°	151.8	139.8	117.5	114.9	108.9	103.8	92.6	78.9	66.1	64.3	64.3
122.5°	148.4	145.8	133.0	124.4	113.2	102.9	86.6	72.1	63.5	61.8	61.8
125°	146.7	144.1	128.7	112.4	97.8	87.5	77.2	67.8	62.6	60.0	60.0
127.5°	134.7	122.7	103.8	94.4	84.9	80.6	72.1	66.1	60.0	56.6	56.6
130°	124.4	113.2	96.9	86.6	78.9	75.5	69.5	63.5	57.5	54.0	53.2
132.5°	122.7	111.5	94.4	81.5	74.6	71.2	67.8	60.9	54.0	50.6	49.8
135°	114.1	101.2	84.1	77.2	72.9	70.3	67.8	59.2	52.3	48.9	48.9
137.5°	105.5	92.6	79.8	76.3	72.9	70.3	62.6	54.0	48.9	46.3	46.3
140°	106.4	91.8	81.5	78.9	73.8	66.1	59.2	53.2	48.9	45.5	44.6
142.5°	113.2	95.2	82.4	74.6	71.2	66.9	64.3	57.5	48.9	42.9	41.2
145°	124.4	102.9	92.6	89.2	83.2	75.5	66.1	53.2	44.6	39.5	38.6
147.5°	137.3	115.8	103.8	94.4	82.4	69.5	56.6	46.3	39.5	37.7	36.9
150°	119.2	98.7	89.2	76.3	66.1	55.8	46.3	41.2	37.7	36.9	36.9
152.5°	90.1	73.8	66.1	60.0	54.0	48.9	43.7	40.3	37.7	36.0	36.0
155°	78.1	69.5	61.8	55.8	49.8	44.6	40.3	38.6	36.0	36.0	35.2
157.5°	68.6	64.3	54.0	48.9	44.6	42.0	40.3	37.7	36.9	36.0	36.0
160°	62.6	60.0	49.8	45.5	42.9	41.2	41.2	39.5	36.9	36.0	36.0
162.5°	60.9	58.3	48.0	43.7	41.2	42.0	43.7	42.9	39.5	37.7	37.7
165°	60.0	58.3	48.9	42.9	41.2	42.0	46.3	47.2	42.9	40.3	39.5
167.5°	54.9	54.0	51.5	47.2	44.6	44.6	47.2	48.0	46.3	46.3	45.5
170°	49.8	49.8	50.6	51.5	49.8	47.2	45.5	45.5	48.0	50.6	51.5
172.5°	48.0	48.9	50.6	53.2	53.2	49.8	47.2	46.3	48.9	52.3	53.2
175°	50.6	51.5	52.3	52.3	50.6	49.8	48.9	48.0	49.8	53.2	54.0
177.5°	42.0	42.0	42.9	42.9	42.0	42.9	42.0	40.3	40.3	40.3	40.3
180°	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

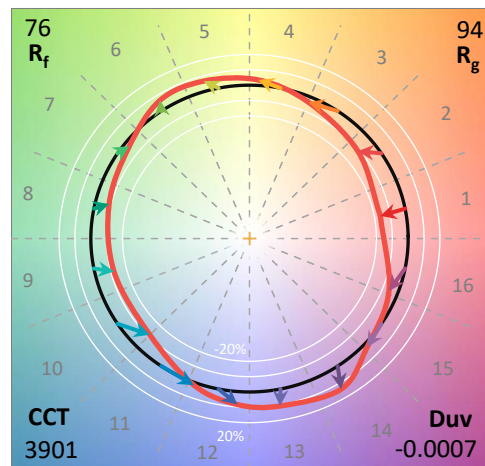
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 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-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 R_f: 76.2
 R_g: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

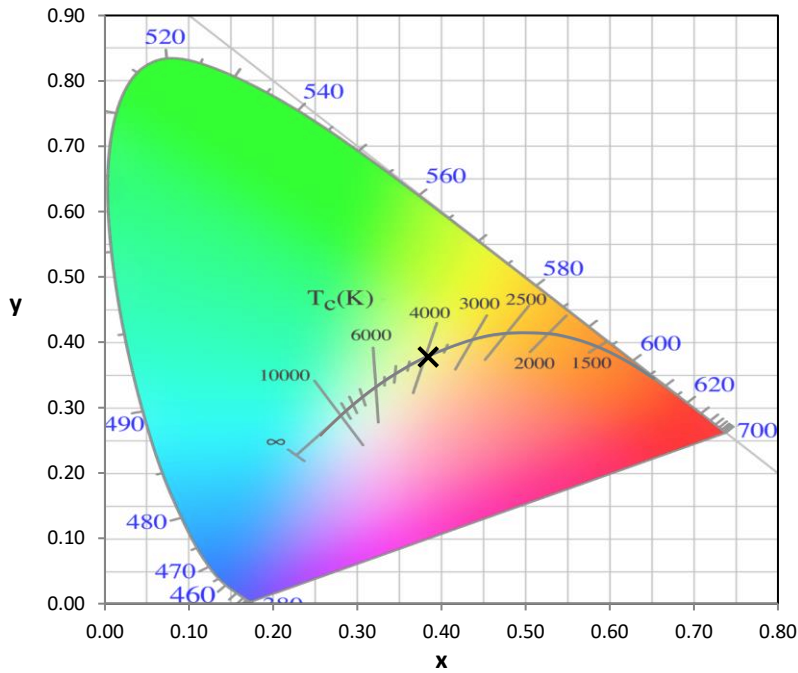
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

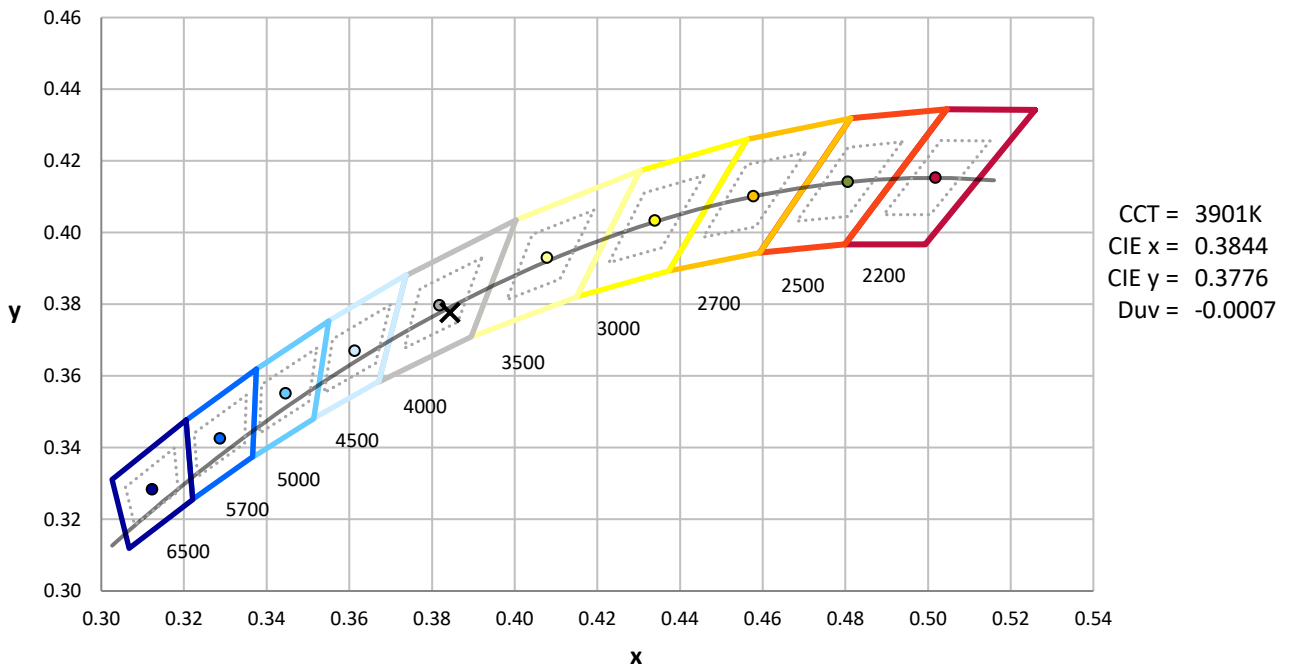
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-1

CIE 1931 Chromaticity Diagram



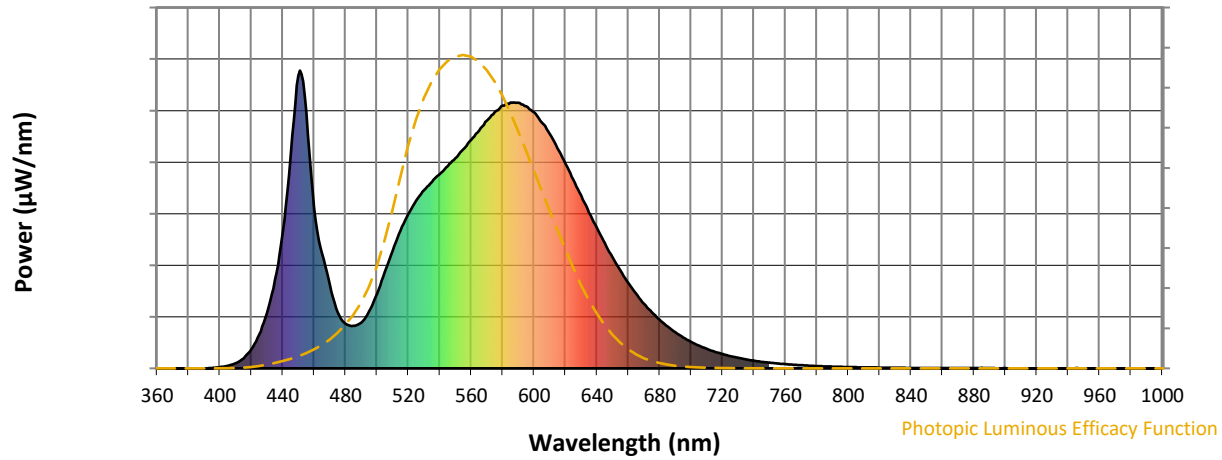
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

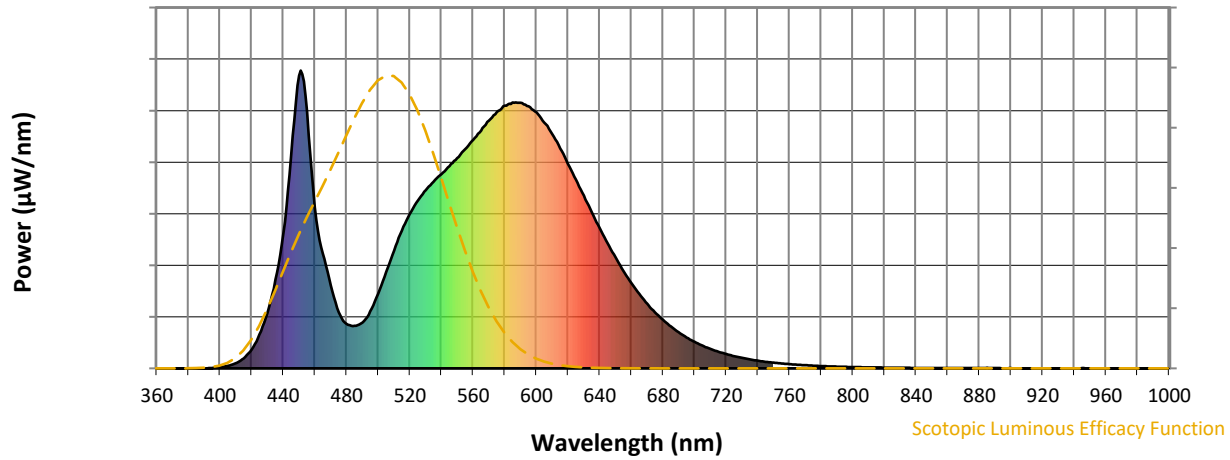


Photopic Lumens: NR

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



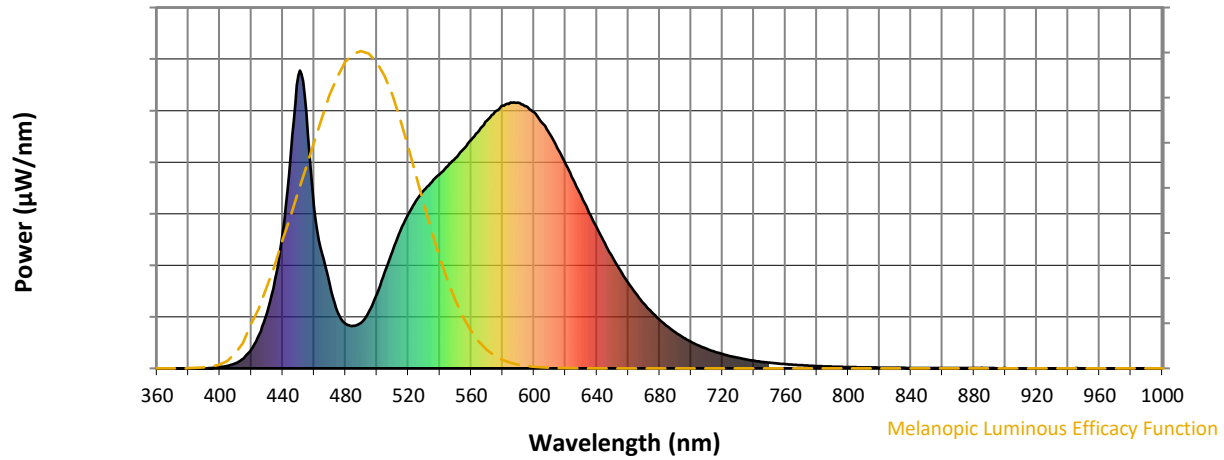
Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

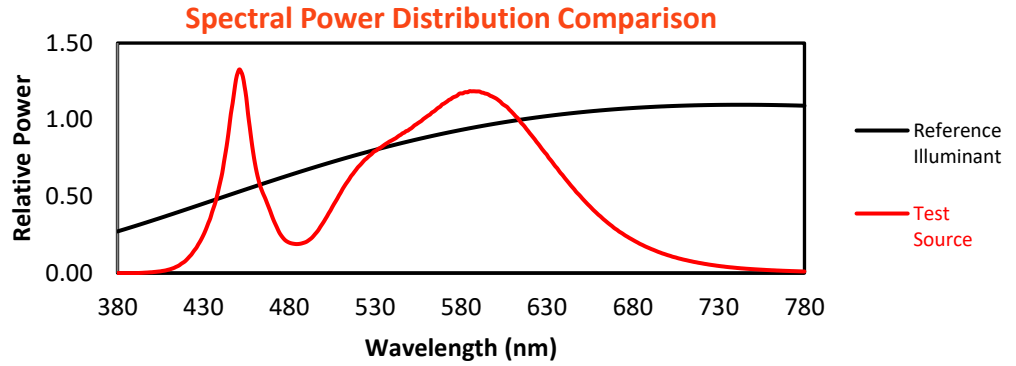
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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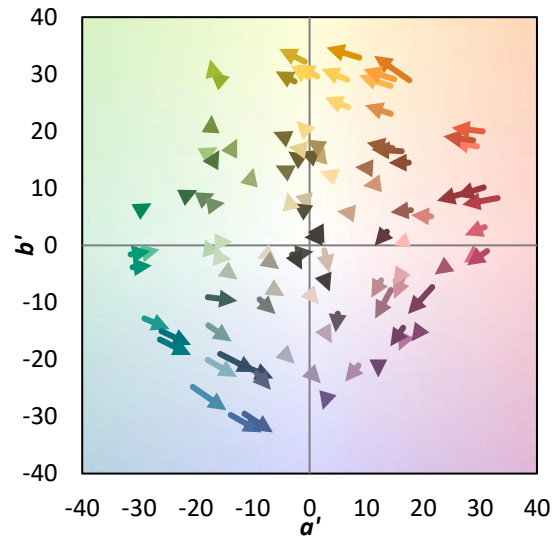
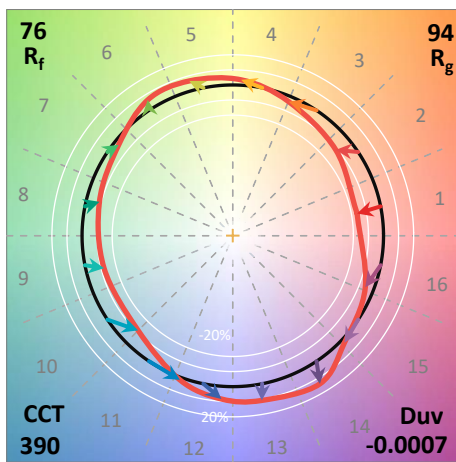
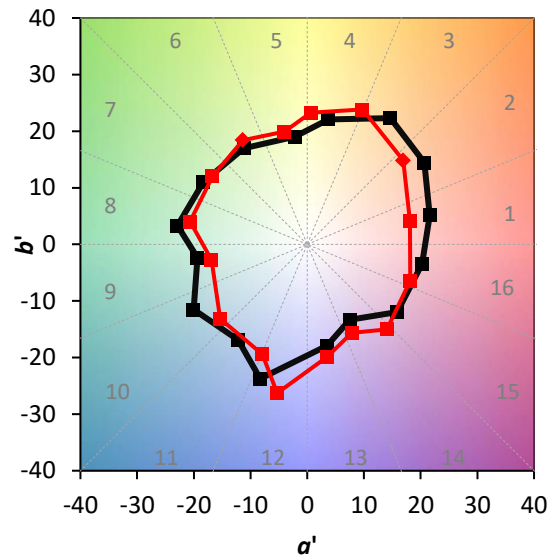
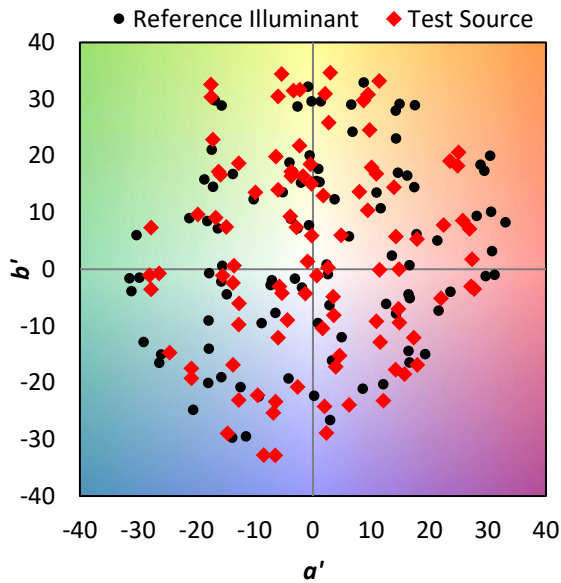
TM-30-18

Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_g = -23.4$



Color Vector Graphics

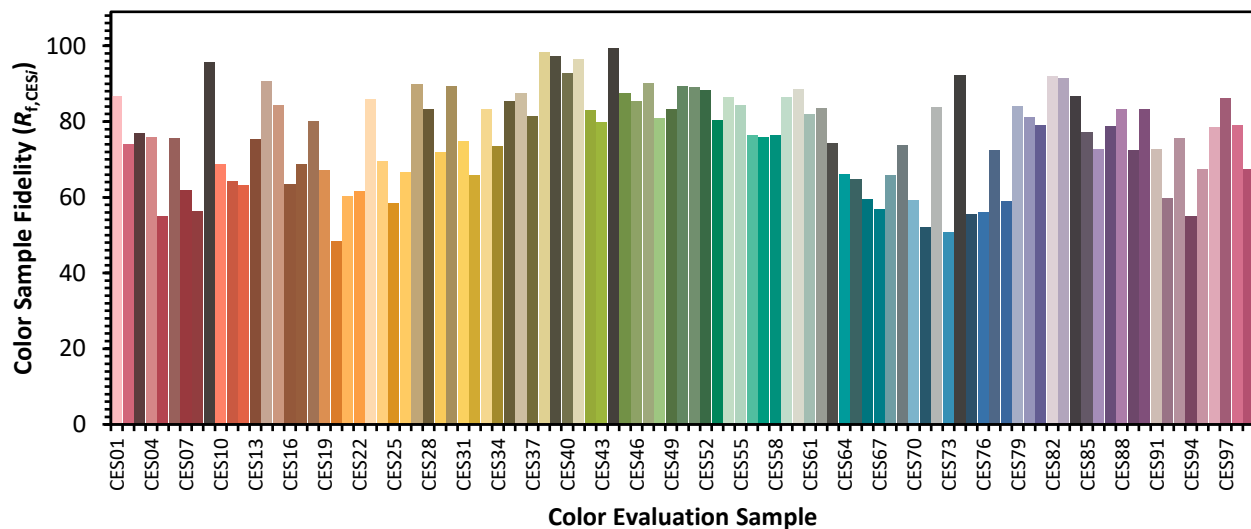


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Individual Sample Fidelity Index ($R_{f,i}$)

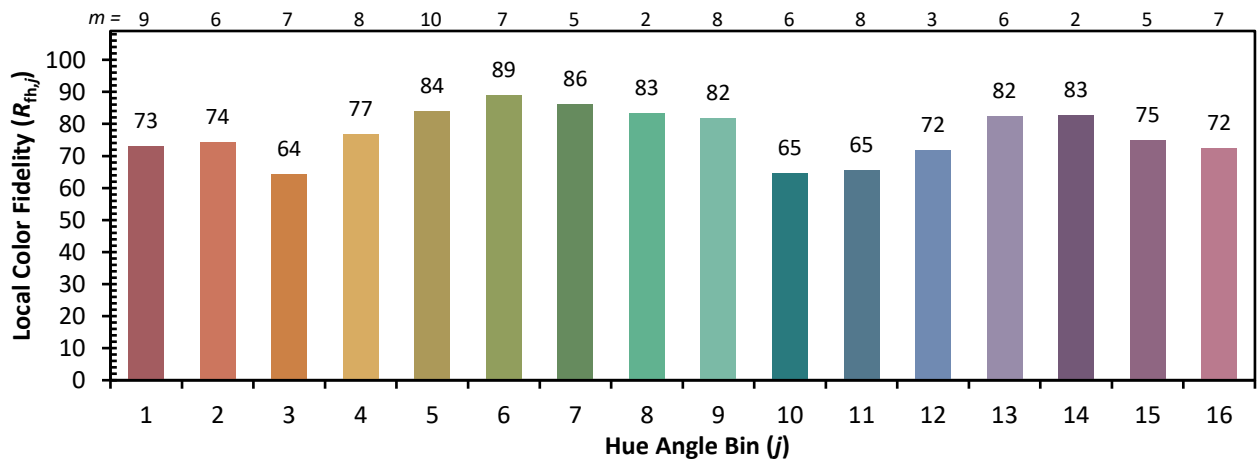
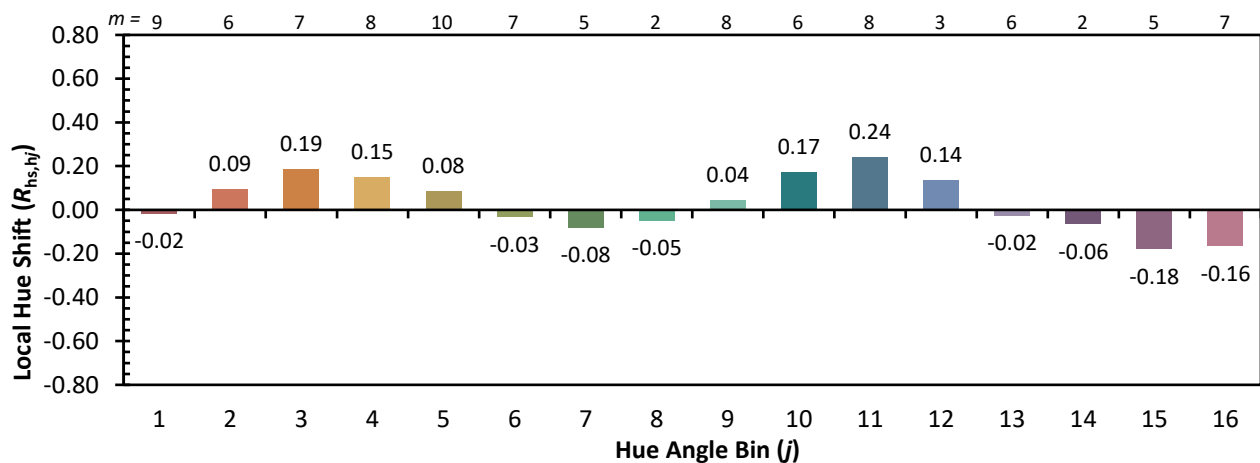
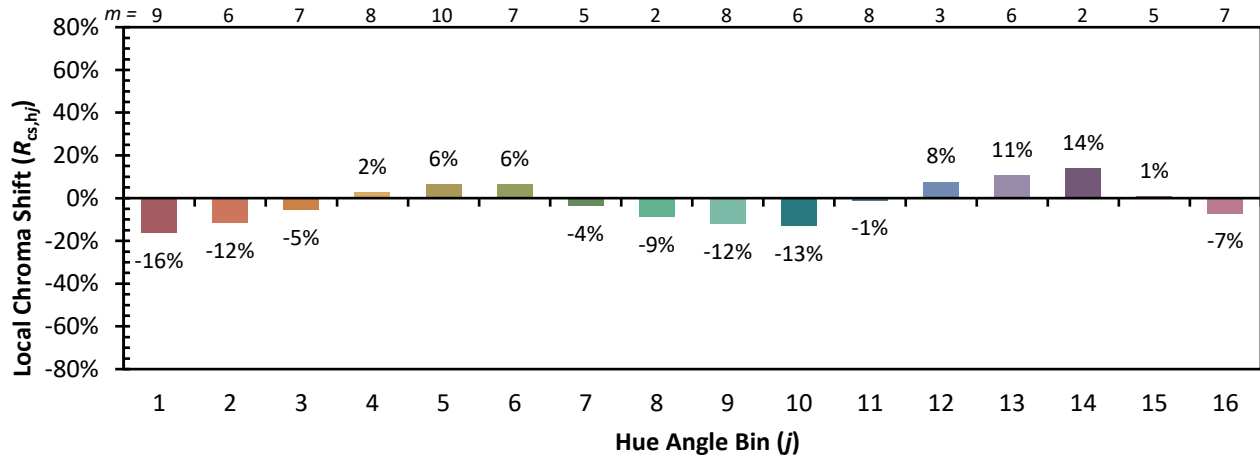
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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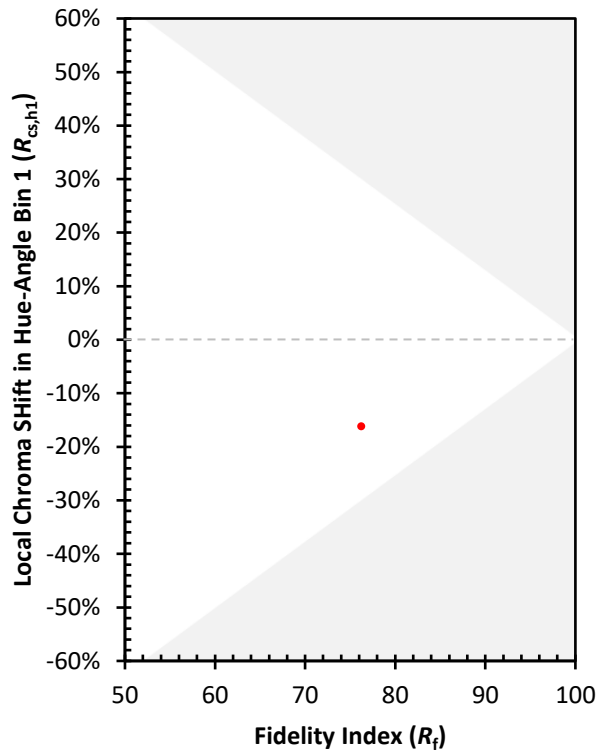
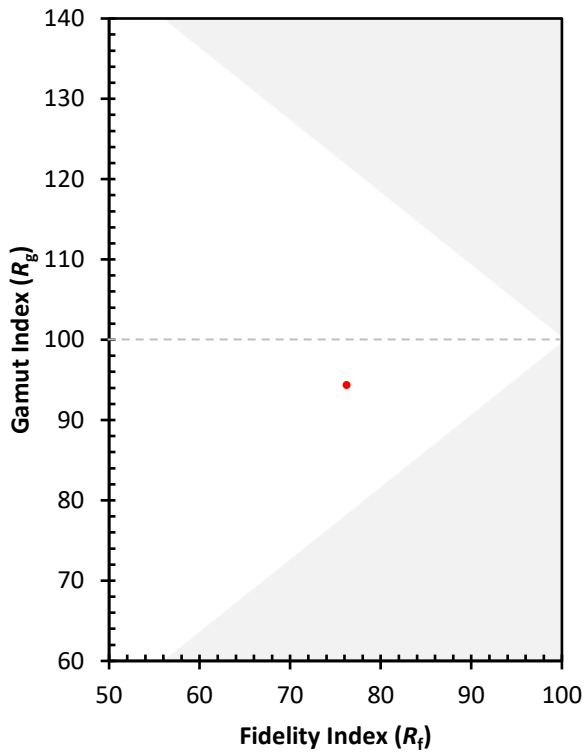
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)