

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: P856133

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856133
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
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

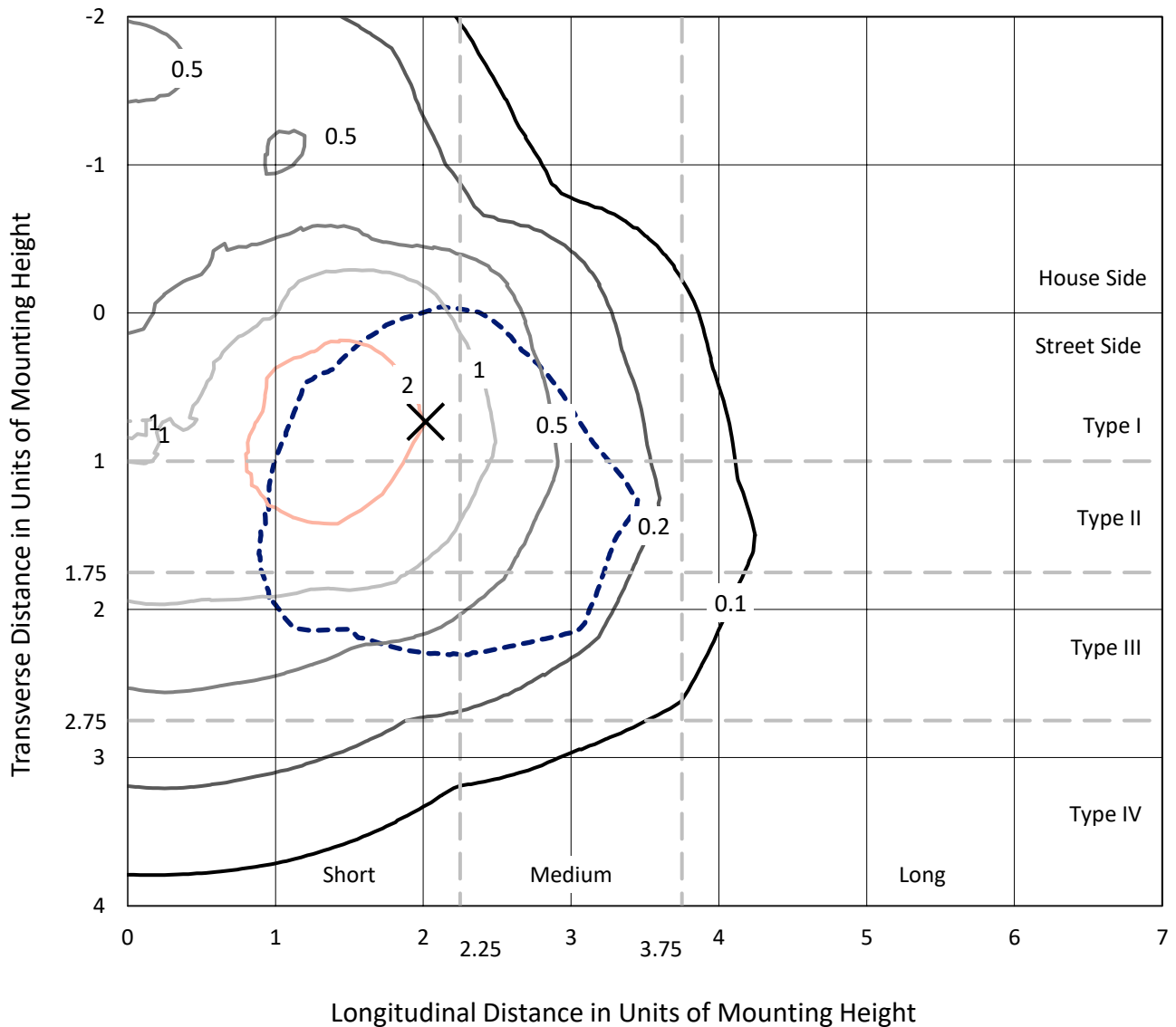
Lumens per Lamp: N/A
Luminaire Lumens: 8156.9 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

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

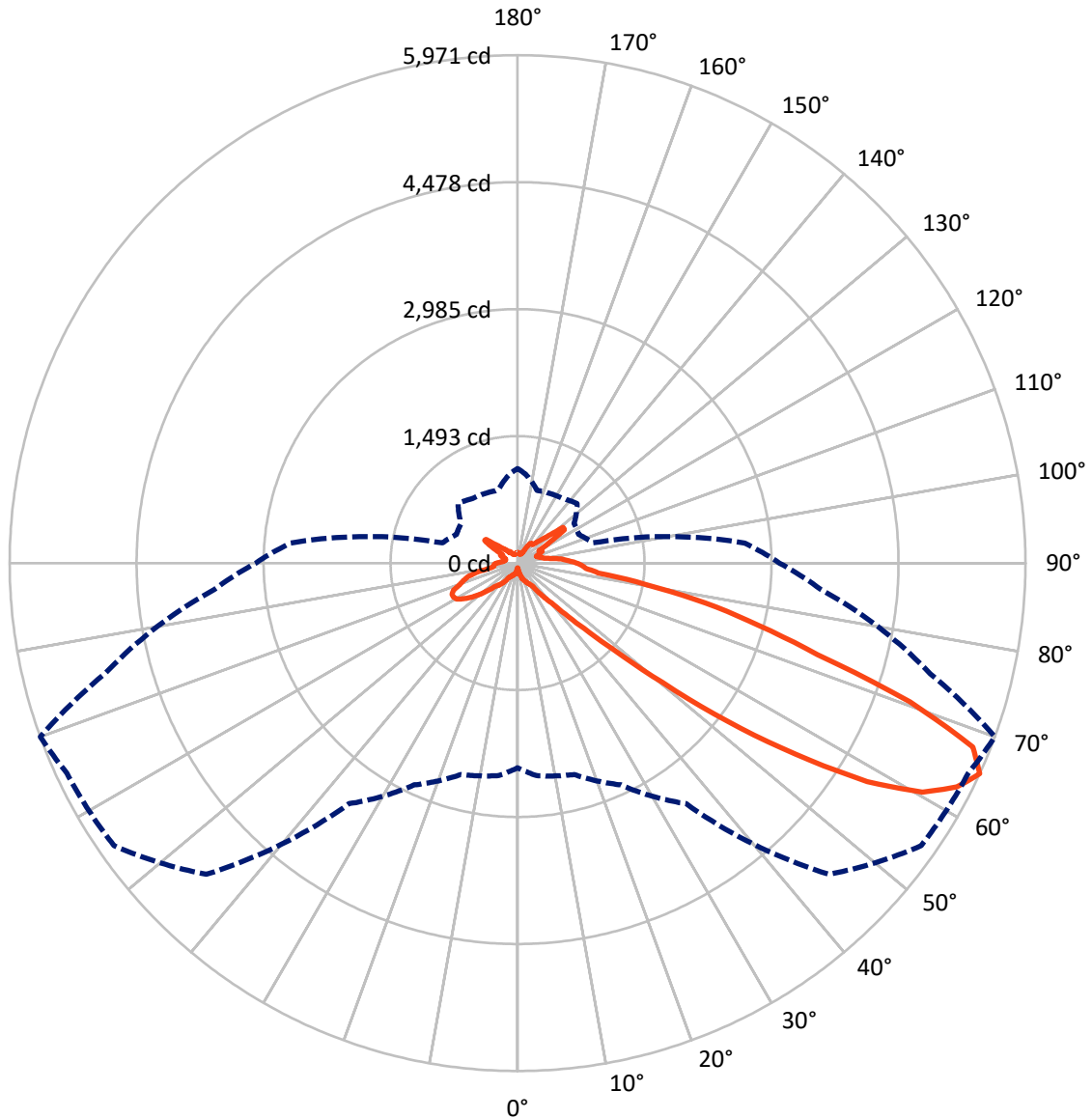
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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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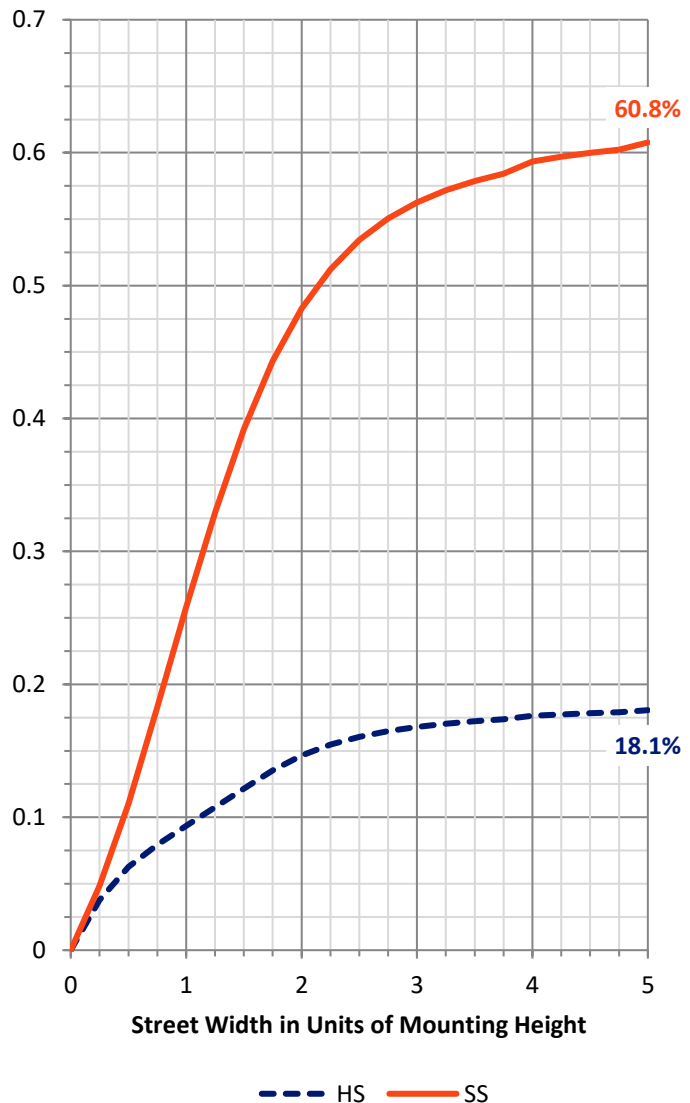
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.5	548.1	2084.6
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	5123.7	948.5	6072.2
	% Fixture	62.8	11.6	74.4
Total	Lumens	6660.2	1496.7	8156.9
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.1
10°-20°	42.7	0.5
20°-30°	90.7	1.1
30°-40°	184.7	2.3
40°-50°	469.7	5.8
50°-60°	1509.5	18.5
60°-70°	2463.6	30.2
70°-80°	1402.5	17.2
80°-90°	488.0	6.0
90°-100°	303.7	3.7
100°-110°	193.4	2.4
110°-120°	212.8	2.6
120°-130°	359.8	4.4
130°-140°	212.1	2.6
140°-150°	114.2	1.4
150°-160°	57.7	0.7
160°-170°	31.6	0.4
170°-180°	11.4	0.1
0°-90°	6660.2	81.7
0°-180°	8156.9	100.0

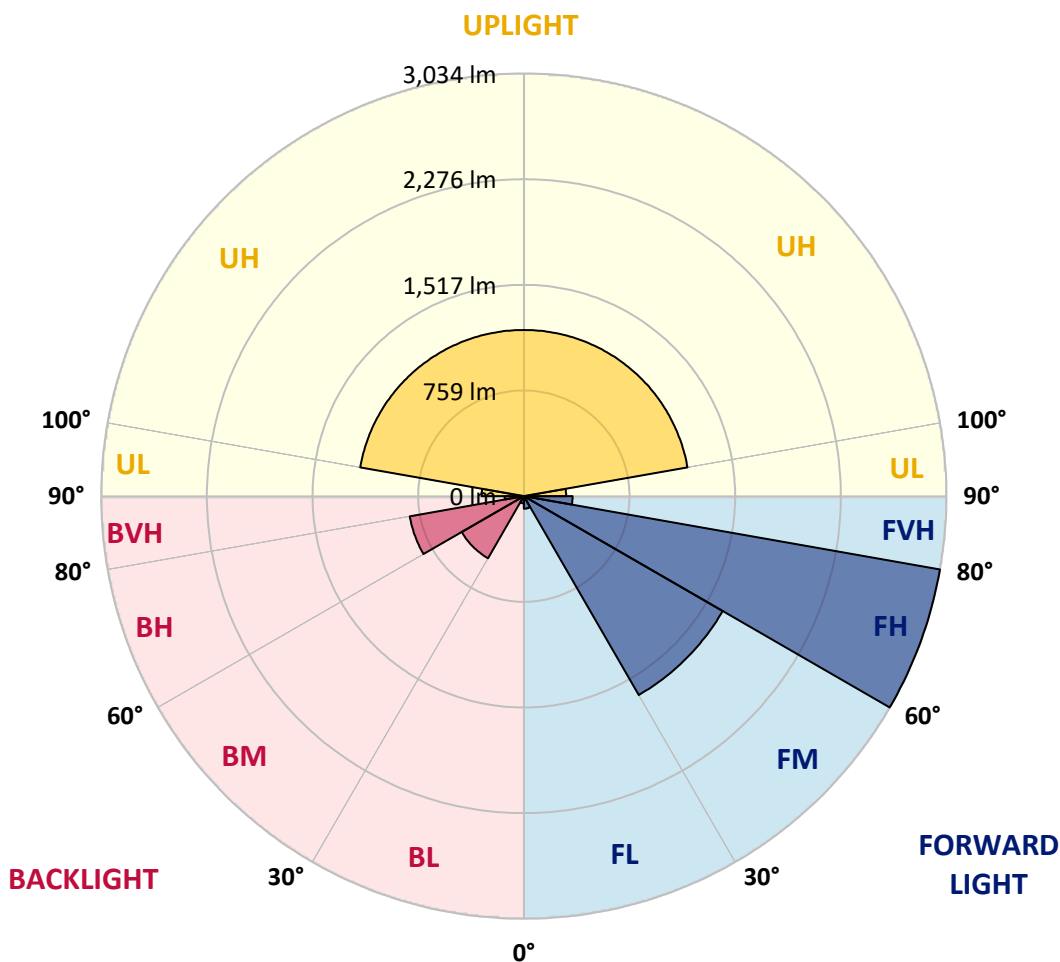


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	90.5	1.1			
FM (30°-60°)	1649.0	20.2			
FH (60°-80°)	3034.2	37.2			G2/5000
FVH (80°-90°)	349.9	4.3			G3/500
BL (0°-30°)	51.6	0.6	B0/110		
BM (30°-60°)	515.0	6.3	B1/1000		
BH (60°-80°)	831.8	10.2	B2/1000		G2/1000
BVH (80°-90°)	138.1	1.7			G2/225
UL (90°-100°)	303.7	3.7		U3/500	
UH (100°-180°)	1193.0	14.6		U5	

BUG Rating: B2-U5-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	64.7	64.7	66.4	66.4	66.4	64.7	63.9	62.2	62.2	62.2	61.4
5°	84.1	83.2	84.1	86.6	87.4	84.9	83.2	80.7	80.7	79.9	79.9
7.5°	113.5	112.6	111.0	108.4	109.3	111.8	115.2	108.4	106.8	102.5	100.9
10°	142.1	140.4	142.1	137.9	133.6	127.8	131.1	129.4	126.1	121.9	118.5
12.5°	173.2	174.0	177.4	174.0	167.3	158.0	156.3	152.1	148.8	147.9	142.9
15°	205.1	205.9	209.3	208.5	201.7	189.1	184.1	179.9	178.2	173.2	162.2
17.5°	221.9	222.7	223.6	224.4	220.2	210.1	202.6	195.0	192.5	190.8	177.4
20°	230.3	228.6	230.3	233.7	237.0	228.6	221.1	216.9	214.3	208.5	190.8
22.5°	243.8	242.1	241.2	243.8	253.8	248.0	240.4	236.2	233.7	226.1	199.2
25°	258.1	256.4	258.9	257.2	269.8	267.3	259.7	255.5	252.2	242.9	211.8
27.5°	274.0	272.3	274.9	273.2	283.3	284.9	279.9	276.5	271.5	258.1	221.1
30°	287.5	285.8	288.3	287.5	297.6	303.4	300.9	300.1	292.5	276.5	237.0
32.5°	298.4	297.6	303.4	306.0	308.5	321.9	320.3	327.8	319.4	300.1	260.6
35°	323.6	326.1	342.1	358.9	361.4	388.3	391.7	419.4	411.0	385.8	337.9
37.5°	500.1	490.9	474.9	458.9	453.1	505.2	512.7	540.5	519.5	472.4	395.1
40°	532.9	517.8	499.3	486.7	488.4	581.7	565.7	670.8	611.1	540.5	482.5
42.5°	506.0	501.0	565.7	596.0	574.1	710.3	683.4	883.4	815.3	642.2	582.5
45°	634.6	624.5	647.2	677.5	684.2	934.7	916.2	1125.5	1097.8	802.7	747.3
47.5°	726.2	717.0	747.3	849.8	938.1	1208.7	1309.6	1611.4	1513.8	1140.6	1012.0
50°	1001.1	999.4	1092.7	1214.6	1369.3	1758.5	2026.6	2365.3	2208.1	1614.7	1387.8
52.5°	1272.6	1276.0	1390.3	1606.3	1766.9	2454.4	2835.2	3072.2	3093.3	2105.6	1798.8
55°	1477.7	1498.7	1636.6	1998.8	2241.8	3073.9	3568.2	3752.3	3962.4	2845.3	2226.6
57.5°	1877.8	1909.8	2040.9	2395.6	2735.2	3845.6	4513.0	4533.1	4846.7	3665.7	2685.6
60°	2227.5	2302.3	2348.5	2670.5	3133.6	4582.7	5214.8	5174.5	5468.7	4345.7	3151.3
62.5°	2335.9	2421.7	2465.4	2808.3	3448.8	4996.3	5542.6	5593.1	5795.7	4823.1	3436.2
65°	2406.5	2507.4	2573.0	2876.4	3452.2	5172.8	5791.5	5845.2	5970.5	5023.2	3578.3
67.5°	2370.4	2499.0	2583.0	2852.9	3270.6	5036.6	5741.9	5638.5	5771.3	4855.9	3419.4
70°	2069.5	2203.9	2288.8	2489.7	2734.3	4234.7	4950.1	4776.9	4893.7	4053.2	2811.7
72.5°	1686.2	1752.6	1804.7	1914.8	2061.1	3123.5	3761.5	3617.8	3687.5	3049.5	2107.3
75°	1385.2	1405.4	1470.1	1533.2	1557.6	2284.6	2979.8	2848.7	2930.2	2321.6	1676.9
77.5°	1006.1	1017.9	1110.4	1120.5	1114.6	1567.6	2348.5	2233.4	2259.4	1725.7	1251.6
80°	584.2	606.9	727.9	722.0	712.0	965.8	1653.4	1607.1	1526.5	1171.7	866.6
82.5°	411.9	434.6	490.0	502.7	495.9	693.5	1073.4	1043.1	955.7	815.3	599.3
85°	433.7	436.3	438.8	444.7	433.7	618.7	822.1	806.9	807.8	674.1	494.2
87.5°	427.8	437.9	442.1	444.7	433.7	587.6	764.1	744.7	754.0	640.5	480.0
90°	375.7	394.2	395.9	400.1	394.2	524.5	685.9	667.4	679.2	577.5	437.1
92.5°	306.8	316.9	328.7	344.6	337.9	448.9	583.3	569.9	584.2	500.1	384.1
95°	290.8	301.8	309.3	320.3	310.2	409.4	527.0	500.1	511.9	437.9	331.2
97.5°	240.4	249.6	256.4	260.6	253.0	322.8	404.3	385.8	385.0	338.7	264.8
100°	205.1	211.0	216.9	221.1	214.3	267.3	320.3	313.5	315.2	279.9	227.8
102.5°	195.0	198.4	207.6	208.5	200.9	243.8	288.3	285.8	289.2	258.9	213.5
105°	190.8	193.3	200.9	198.4	191.6	227.8	265.6	267.3	267.3	241.2	200.1
107.5°	178.2	182.4	190.8	186.6	183.2	210.1	244.6	238.7	240.4	224.4	190.0
110°	176.5	179.9	188.3	184.9	182.4	205.1	235.4	233.7	236.2	221.9	195.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	219.4	216.0	222.7	216.0	220.2	239.6	271.5	268.1	275.7	270.7	243.8
115°	270.7	272.3	279.1	265.6	269.8	289.2	306.8	312.7	319.4	311.8	284.1
117.5°	250.5	264.8	256.4	254.7	251.3	266.5	263.9	279.1	285.8	279.9	269.0
120°	268.1	285.8	261.4	248.8	243.8	281.6	300.1	299.2	294.2	282.4	259.7
122.5°	400.9	403.5	405.1	443.0	429.5	466.5	477.4	463.1	463.1	478.3	432.0
125°	625.4	627.9	626.2	643.0	633.8	669.1	683.4	682.5	674.1	666.6	621.2
127.5°	632.1	632.1	626.2	617.0	625.4	659.8	660.7	692.6	681.7	661.5	619.5
130°	441.3	444.7	465.7	472.4	484.2	491.7	483.3	511.1	516.1	512.7	484.2
132.5°	365.6	371.5	394.2	402.6	410.2	411.0	407.7	429.5	434.6	434.6	422.0
135°	316.1	322.8	325.3	321.1	332.0	340.4	347.2	364.8	363.1	359.8	348.8
137.5°	275.7	278.2	270.7	261.4	267.3	291.7	305.1	323.6	322.8	316.9	298.4
140°	232.8	233.7	229.5	225.3	231.2	252.2	264.8	284.9	282.4	278.2	256.4
142.5°	176.5	179.0	190.0	198.4	212.7	256.4	249.6	267.3	279.9	290.0	239.6
145°	185.8	182.4	180.7	190.0	208.5	271.5	252.2	274.9	280.7	287.5	229.5
147.5°	214.3	216.0	213.5	207.6	232.8	253.0	242.1	262.3	265.6	263.9	240.4
150°	168.1	170.6	171.5	169.0	200.1	199.2	188.3	203.4	205.1	205.1	189.1
152.5°	137.0	137.9	136.2	134.5	154.7	151.3	146.3	151.3	150.5	149.6	146.3
155°	130.3	130.3	128.6	129.4	142.9	139.5	136.2	139.5	137.9	135.3	132.0
157.5°	120.2	121.0	121.0	123.6	132.0	126.1	122.7	124.4	122.7	121.0	121.0
160°	113.5	113.5	114.3	117.7	122.7	116.8	114.3	115.2	114.3	112.6	113.5
162.5°	111.0	111.0	111.8	113.5	114.3	111.0	108.4	108.4	108.4	108.4	111.0
165°	109.3	109.3	109.3	110.1	110.1	107.6	106.8	107.6	108.4	109.3	112.6
167.5°	112.6	112.6	112.6	112.6	111.8	110.1	109.3	110.1	111.0	111.8	114.3
170°	117.7	116.8	116.8	116.0	115.2	113.5	112.6	111.8	111.8	112.6	113.5
172.5°	121.0	121.0	120.2	120.2	119.4	117.7	116.0	115.2	115.2	115.2	115.2
175°	125.2	125.2	125.2	125.2	124.4	122.7	121.9	120.2	120.2	120.2	120.2
177.5°	130.3	130.3	130.3	130.3	128.6	126.9	125.2	123.6	123.6	123.6	122.7
180°	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
2.5°	60.5	59.7	57.2	56.3	55.5	53.8	52.1	51.3	50.4	50.4	51.3
5°	80.7	79.9	79.9	77.3	74.8	70.6	68.9	68.9	69.8	70.6	72.3
7.5°	101.7	103.4	105.1	100.9	93.3	83.2	77.3	79.0	83.2	86.6	86.6
10°	117.7	117.7	123.6	118.5	105.9	93.3	84.9	83.2	84.1	84.9	85.7
12.5°	140.4	140.4	137.0	123.6	111.0	98.3	91.6	89.9	89.9	86.6	85.7
15°	157.2	152.1	140.4	127.8	116.8	104.2	96.7	94.1	91.6	89.1	88.3
17.5°	167.3	158.0	142.1	130.3	119.4	109.3	101.7	96.7	94.1	95.0	95.0
20°	179.0	169.0	154.7	142.1	128.6	115.2	105.9	98.3	95.8	96.7	95.8
22.5°	188.3	178.2	163.9	149.6	135.3	121.0	110.1	100.9	97.5	98.3	98.3
25°	199.2	190.8	175.7	158.9	141.2	127.8	116.8	105.9	100.9	100.0	100.0
27.5°	210.1	204.3	188.3	168.1	149.6	133.6	122.7	110.1	104.2	101.7	101.7
30°	224.4	217.7	201.7	177.4	157.2	142.1	130.3	116.8	108.4	104.2	103.4
32.5°	247.1	239.6	220.2	194.2	165.6	150.5	137.9	122.7	111.8	106.8	105.9
35°	321.1	309.3	279.1	248.8	202.6	168.1	147.1	127.8	115.2	108.4	107.6
37.5°	367.3	338.7	298.4	278.2	227.8	205.9	177.4	146.3	120.2	111.8	110.1
40°	442.1	402.6	352.2	312.7	221.9	225.3	207.6	182.4	142.9	117.7	115.2
42.5°	505.2	455.6	379.1	327.8	222.7	235.4	221.9	200.9	171.5	139.5	134.5
45°	622.9	559.0	440.5	352.2	228.6	250.5	233.7	211.8	185.8	163.9	161.4
47.5°	841.4	754.8	550.6	392.5	267.3	290.8	260.6	232.0	208.5	183.2	179.0
50°	1151.6	1048.2	677.5	424.5	333.7	383.3	328.7	280.7	253.8	235.4	232.8
52.5°	1508.8	1400.4	770.8	483.3	414.4	497.6	434.6	379.1	343.8	343.8	348.8
55°	1924.0	1815.6	845.6	564.9	513.6	623.7	555.6	510.2	493.4	564.9	584.2
57.5°	2335.9	2198.1	896.0	648.1	629.6	771.6	690.1	651.4	682.5	894.4	959.9
60°	2711.6	2483.9	935.5	727.1	728.8	889.3	828.8	826.3	874.2	1144.8	1228.1
62.5°	2928.5	2618.3	933.0	772.5	786.8	962.4	912.0	925.5	952.4	1186.9	1249.9
65°	3077.3	2682.2	913.7	792.6	811.1	988.5	925.5	902.8	885.1	1050.7	1111.2
67.5°	2974.7	2532.6	870.0	763.2	796.0	950.7	867.5	802.7	768.3	852.3	893.5
70°	2491.4	2112.3	770.0	686.7	717.0	801.1	721.2	657.3	621.2	666.6	685.9
72.5°	1887.1	1607.1	694.3	642.2	628.7	662.4	586.7	515.3	493.4	522.8	527.0
75°	1502.9	1257.5	638.8	580.8	527.9	560.7	468.2	381.6	369.0	369.0	362.3
77.5°	1127.2	932.2	544.7	452.2	389.2	443.0	348.8	265.6	248.8	245.4	236.2
80°	755.7	634.6	366.5	300.1	279.9	328.7	248.0	195.0	195.9	195.0	184.1
82.5°	527.9	490.0	297.6	261.4	239.6	258.9	224.4	187.4	185.8	187.4	175.7
85°	468.2	448.9	288.3	269.8	247.1	249.6	215.2	177.4	178.2	181.6	171.5
87.5°	449.7	427.8	289.2	260.6	241.2	231.2	195.0	163.9	169.0	172.3	163.9
90°	405.1	383.3	265.6	235.4	215.2	200.9	172.3	155.5	162.2	165.6	158.0
92.5°	351.4	328.7	221.1	207.6	202.6	202.6	180.7	165.6	169.8	171.5	164.7
95°	302.6	280.7	196.7	182.4	178.2	179.0	161.4	148.8	151.3	150.5	145.4
97.5°	244.6	231.2	171.5	162.2	158.0	156.3	144.6	135.3	140.4	143.7	139.5
100°	216.0	209.3	165.6	158.9	153.0	152.1	142.1	136.2	140.4	145.4	142.1
102.5°	201.7	196.7	158.0	148.8	144.6	142.9	136.2	129.4	133.6	138.7	136.2
105°	190.0	182.4	151.3	142.9	137.0	136.2	129.4	121.0	123.6	130.3	128.6
107.5°	179.9	174.8	150.5	141.2	133.6	133.6	126.1	119.4	120.2	122.7	122.7
110°	188.3	182.4	156.3	149.6	139.5	136.2	134.5	129.4	125.2	123.6	123.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	232.8	221.9	195.9	188.3	171.5	159.7	148.8	138.7	132.0	129.4	127.8
115°	274.9	262.3	231.2	211.8	189.1	171.5	156.3	145.4	135.3	132.0	135.3
117.5°	283.3	249.6	201.7	185.8	172.3	161.4	153.0	144.6	137.0	139.5	137.0
120°	280.7	239.6	203.4	226.1	203.4	178.2	158.0	158.0	155.5	142.9	145.4
122.5°	432.0	403.5	359.8	346.3	282.4	258.1	220.2	188.3	157.2	139.5	131.1
125°	591.8	564.0	496.8	445.5	381.6	314.4	241.2	185.8	145.4	128.6	131.1
127.5°	595.1	569.9	506.0	419.4	335.4	269.0	200.9	164.7	142.1	131.1	129.4
130°	464.0	439.6	385.0	318.6	265.6	221.9	180.7	148.8	128.6	120.2	117.7
132.5°	401.8	379.9	329.5	269.0	230.3	195.9	161.4	129.4	116.0	110.1	111.0
135°	337.9	311.8	263.9	231.2	206.8	175.7	144.6	118.5	111.8	110.1	109.3
137.5°	286.6	268.1	234.5	209.3	185.8	158.0	126.9	111.0	108.4	110.1	108.4
140°	243.8	228.6	210.1	188.3	159.7	133.6	113.5	105.9	110.1	111.0	110.1
142.5°	210.1	195.0	175.7	146.3	132.8	121.0	116.0	110.1	110.1	109.3	108.4
145°	175.7	155.5	146.3	150.5	142.1	130.3	121.0	109.3	105.1	105.1	105.9
147.5°	201.7	180.7	169.0	159.7	143.7	126.9	112.6	101.7	100.0	103.4	102.5
150°	174.0	154.7	146.3	133.6	123.6	111.0	101.7	97.5	98.3	102.5	102.5
152.5°	138.7	125.2	120.2	116.8	111.8	104.2	99.2	97.5	99.2	100.9	100.9
155°	130.3	122.7	116.8	114.3	108.4	102.5	98.3	97.5	99.2	100.9	102.5
157.5°	121.9	119.4	111.8	109.3	104.2	101.7	99.2	99.2	100.0	101.7	103.4
160°	116.0	115.2	108.4	107.6	104.2	102.5	102.5	103.4	104.2	104.2	104.2
162.5°	112.6	112.6	110.1	108.4	107.6	106.8	109.3	110.1	109.3	109.3	109.3
165°	113.5	114.3	111.8	110.1	109.3	111.0	115.2	115.2	113.5	112.6	111.8
167.5°	114.3	115.2	113.5	112.6	112.6	114.3	116.0	115.2	114.3	113.5	112.6
170°	113.5	114.3	114.3	115.2	115.2	115.2	116.8	116.8	115.2	114.3	114.3
172.5°	115.2	116.0	116.8	117.7	118.5	117.7	118.5	118.5	118.5	118.5	119.4
175°	120.2	120.2	121.0	121.0	120.2	121.0	121.0	121.0	121.9	123.6	123.6
177.5°	122.7	122.7	121.9	121.9	121.0	121.9	121.9	121.9	121.9	122.7	121.9
180°	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4

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.

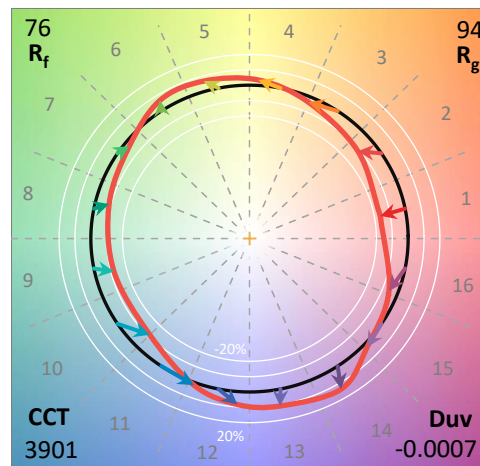
Test Information

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
 Rf: 76.2
 Rg: 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

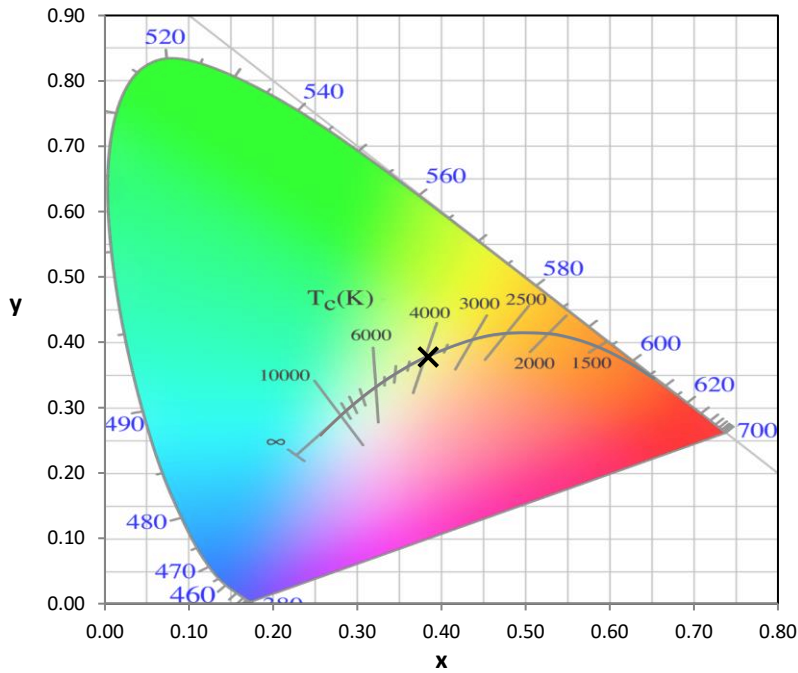
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

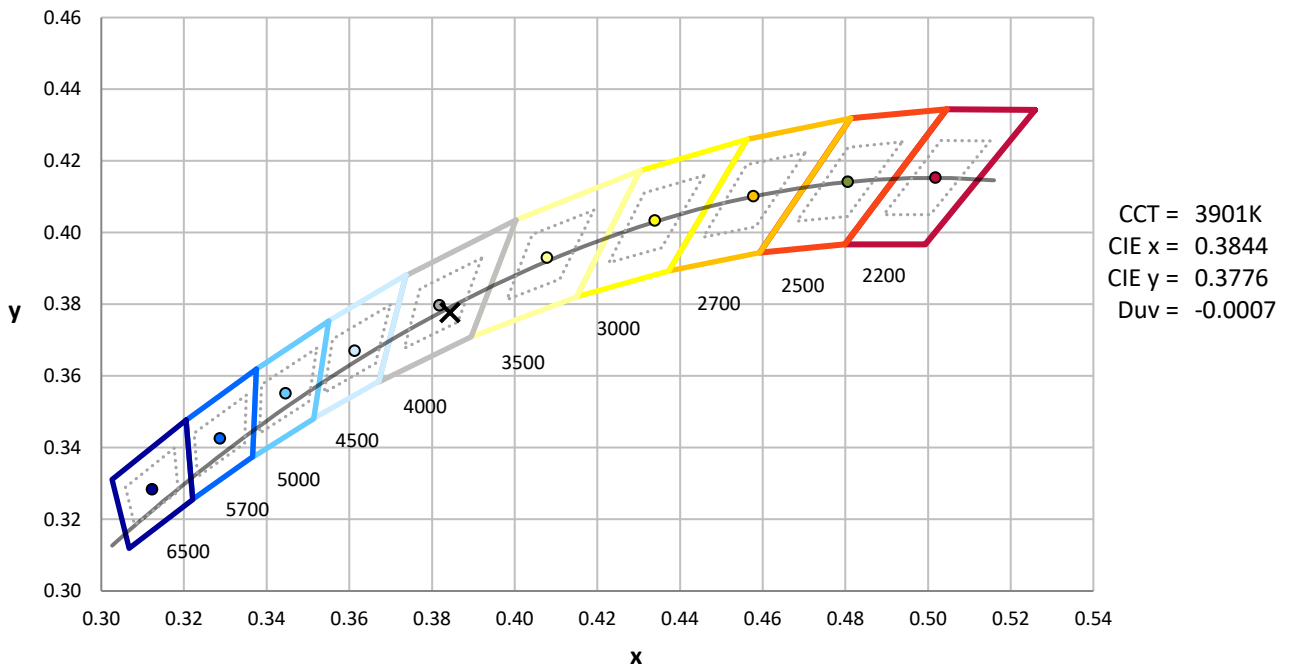
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



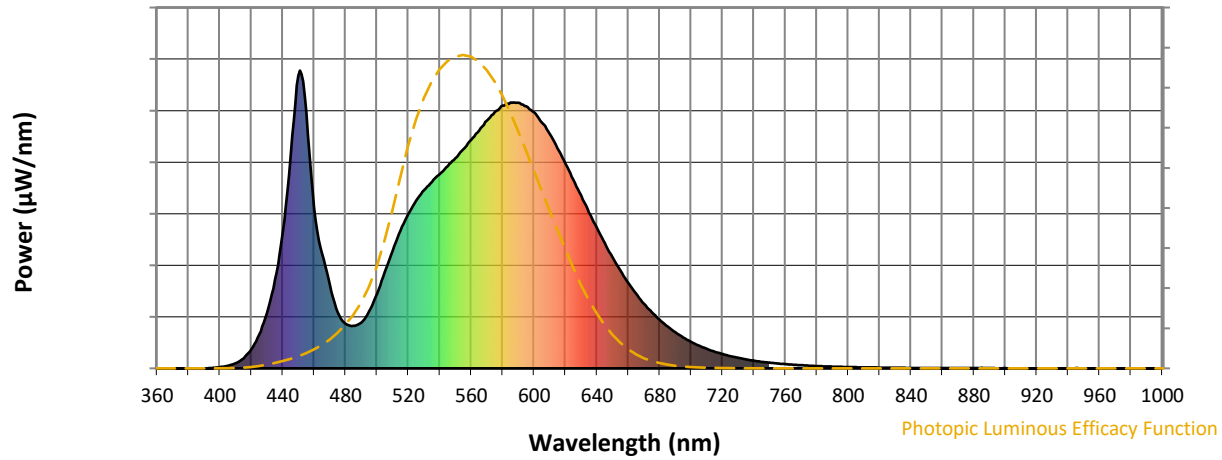
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

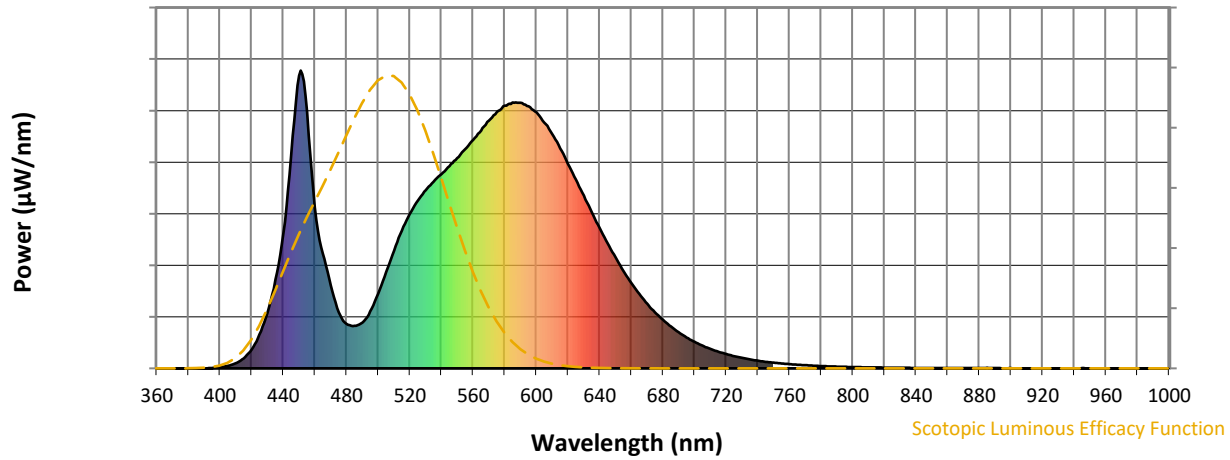


Photopic Lumens: NR

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



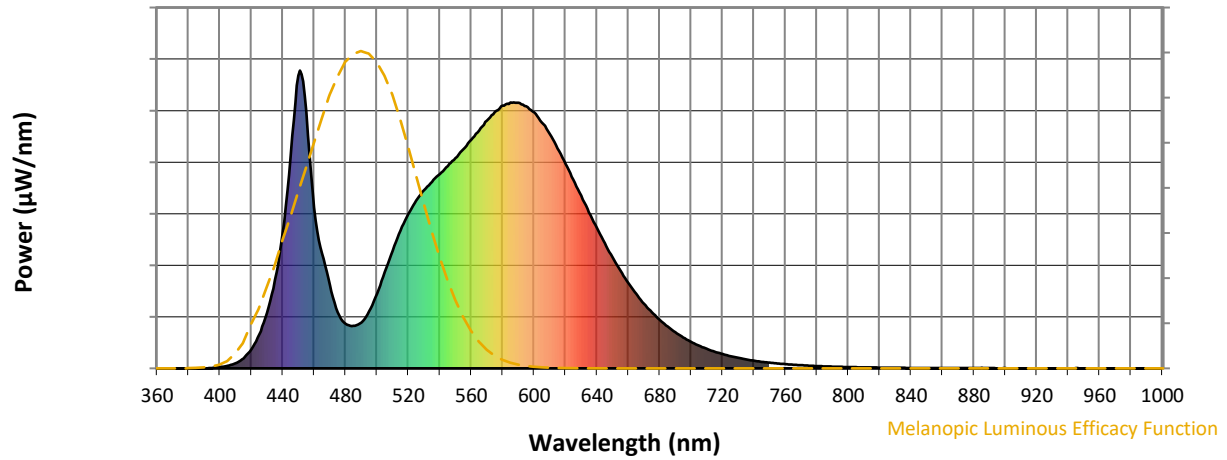
Scotopic Lumens: NR

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

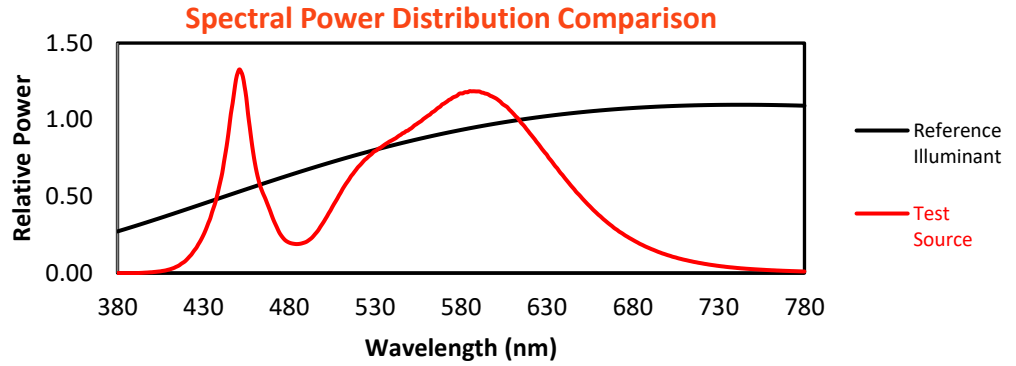
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	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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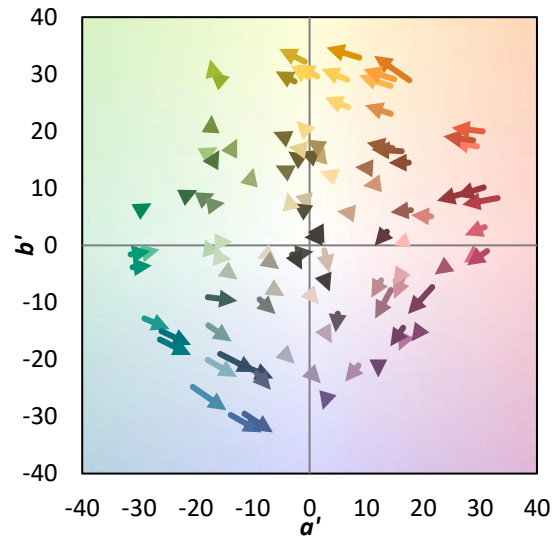
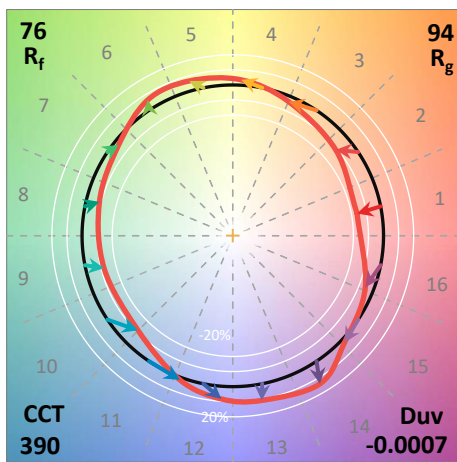
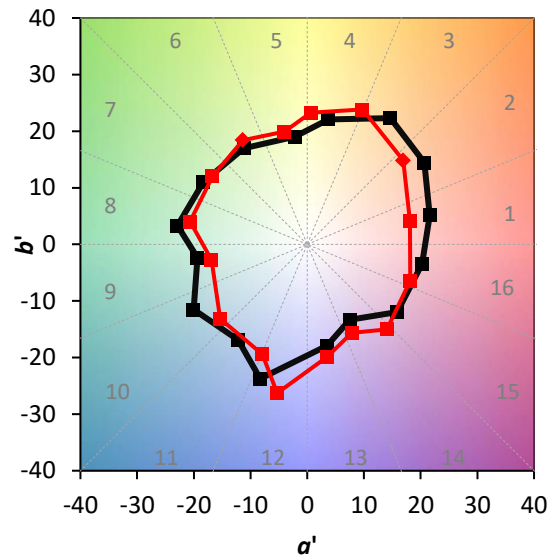
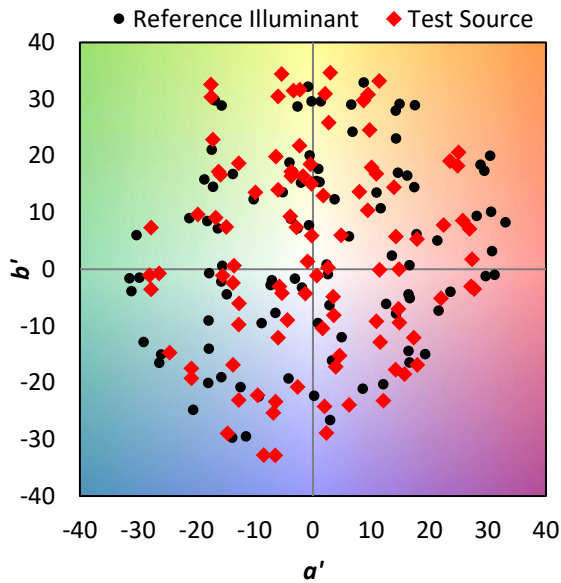
TM-30-18

Summary

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



Color Vector Graphics

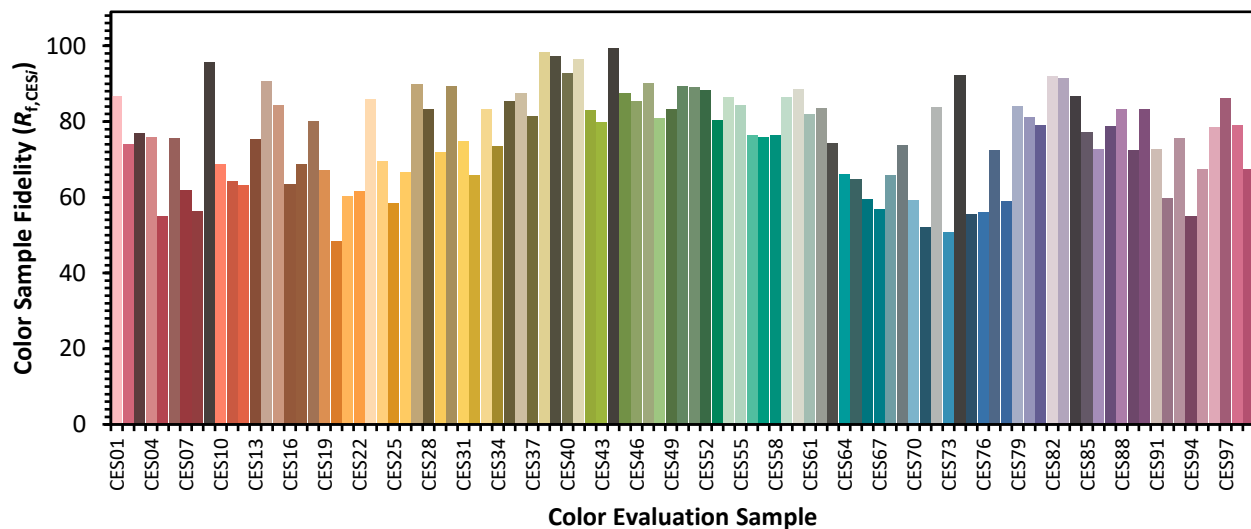


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Individual Sample Fidelity Index ($R_{f,i}$)

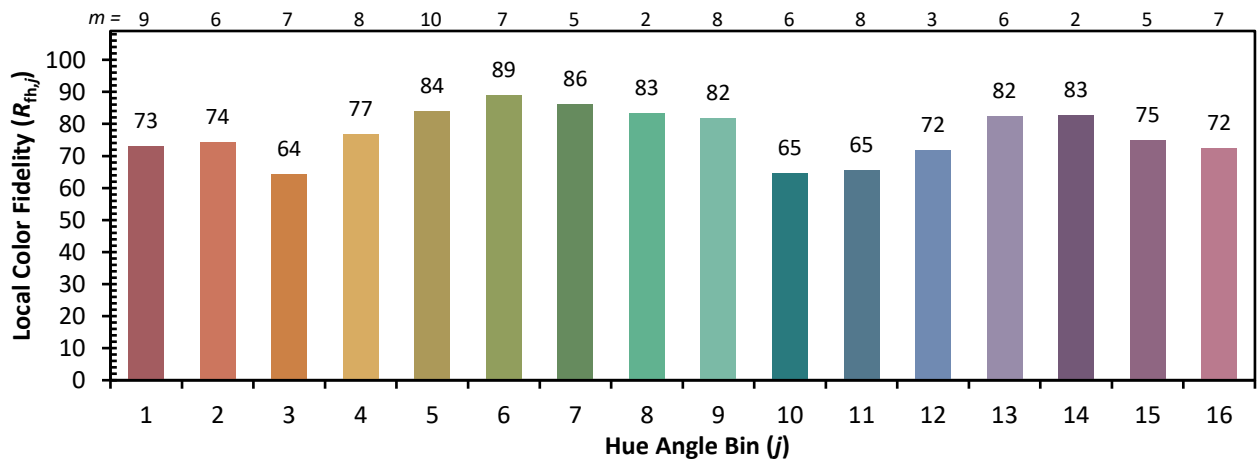
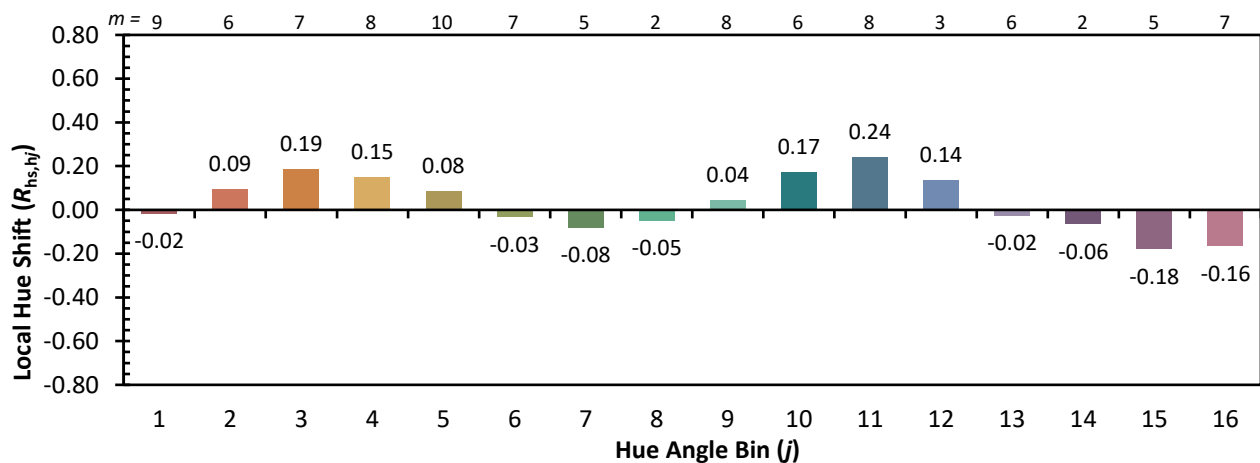
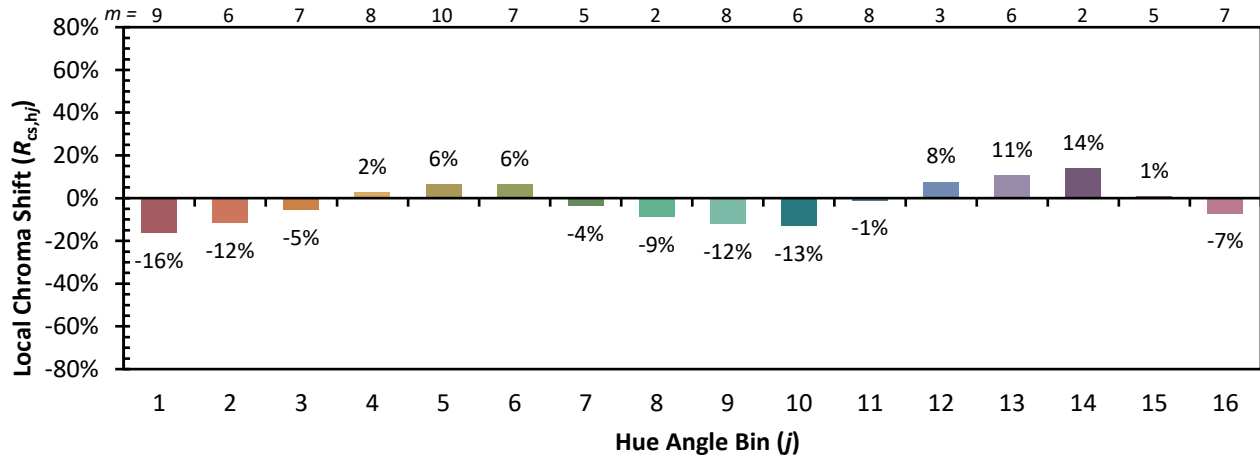
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 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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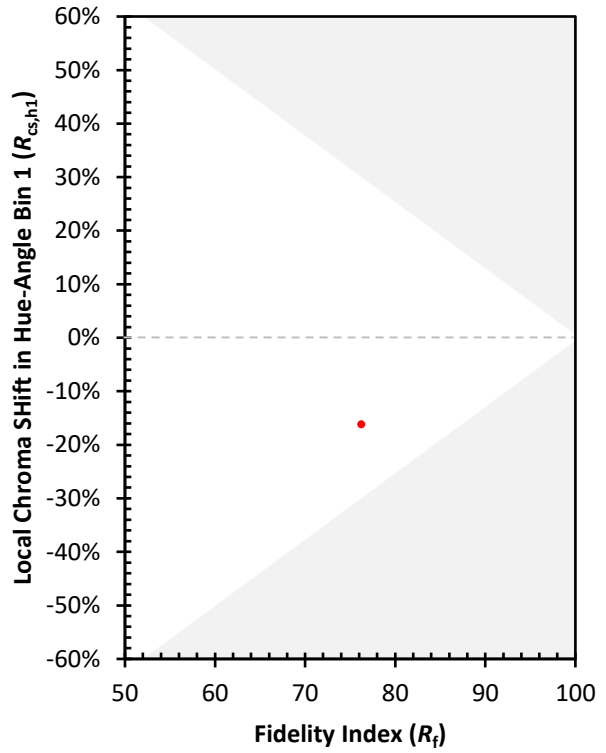
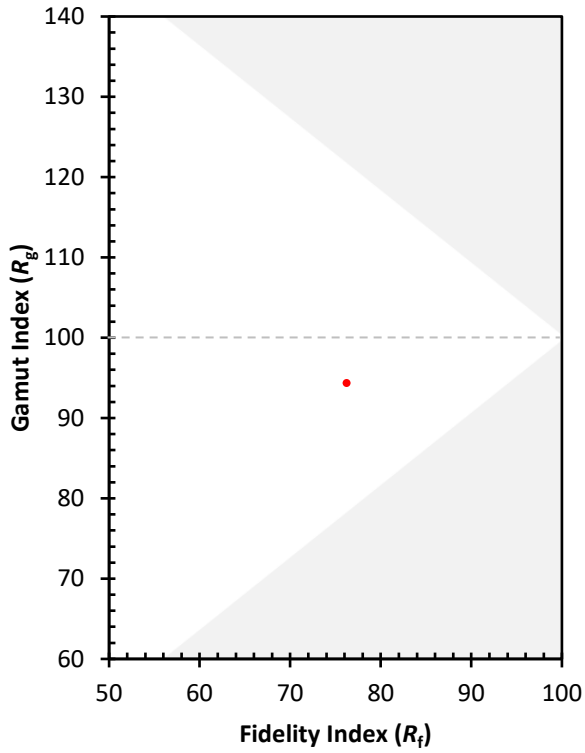
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)