

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: P856134

Luminaire Tested: **FFX-CLB-40-740-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856134
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-740-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

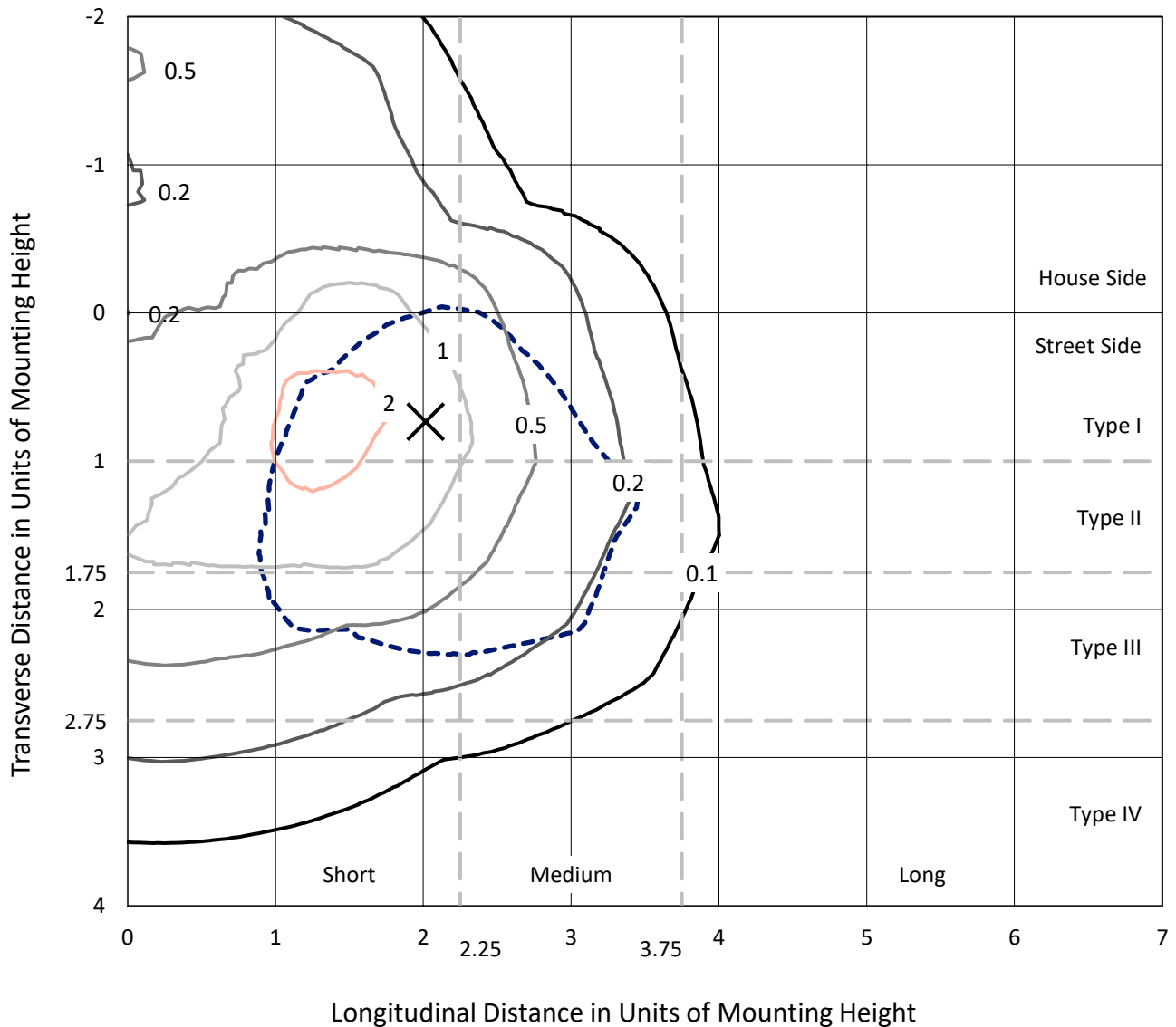
Lumens per Lamp: N/A
Luminaire Lumens: 6375.4 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 8.2%%
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

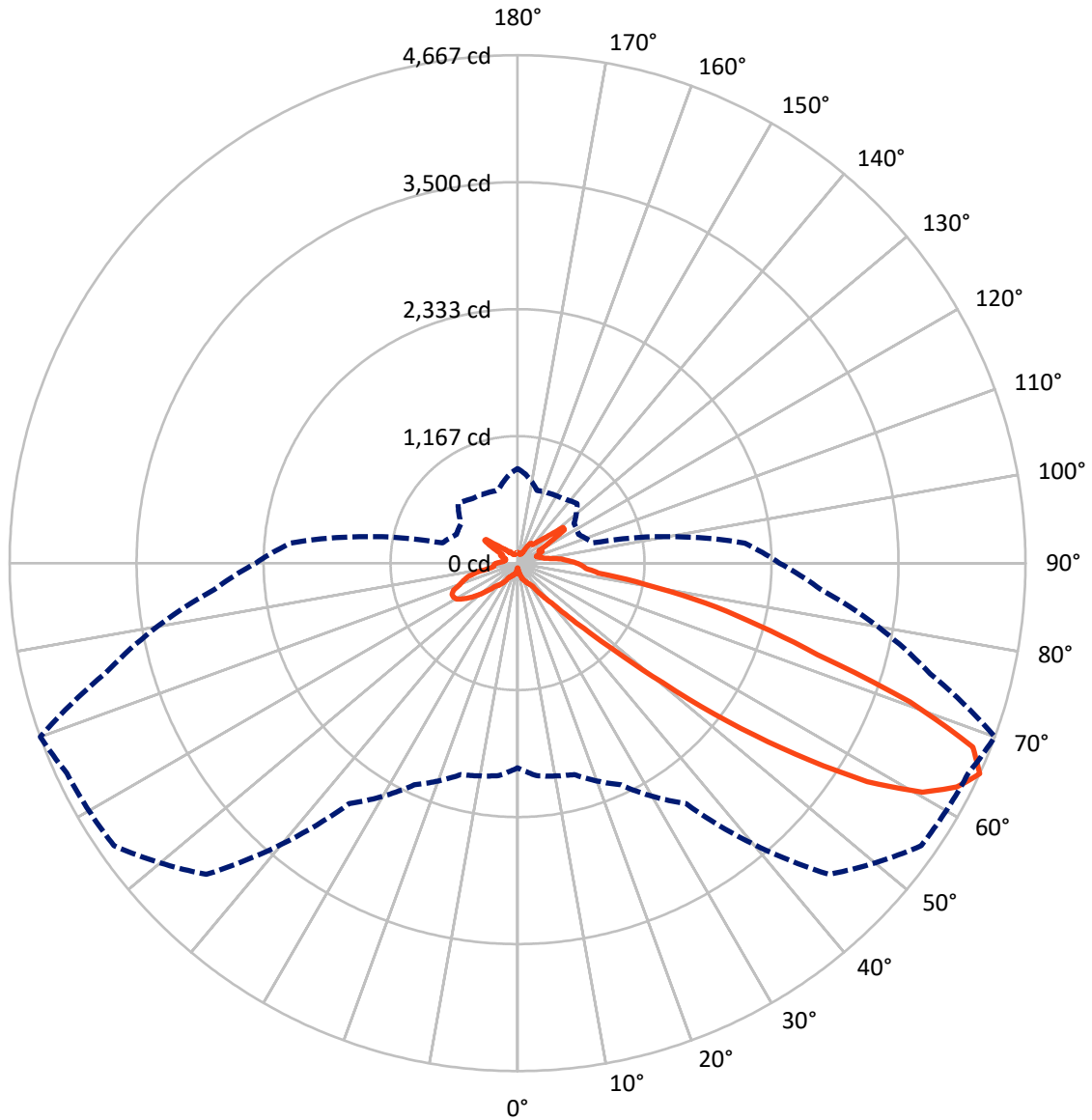
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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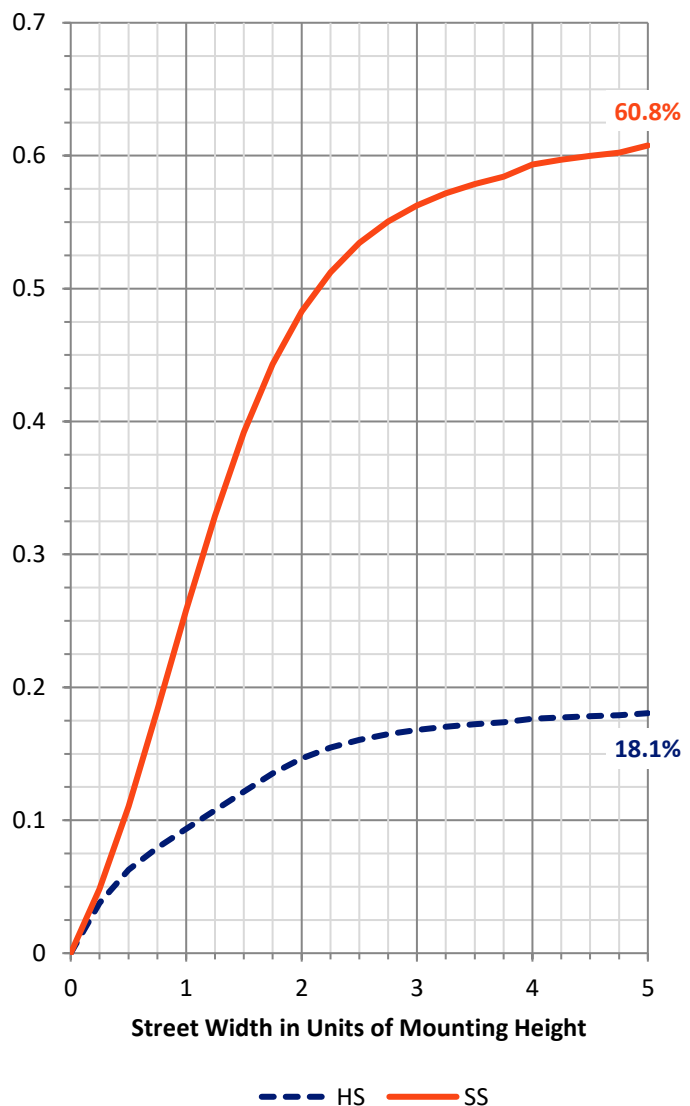
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.9	428.4	1629.4
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	4004.7	741.4	4746.1
	% Fixture	62.8	11.6	74.4
Total	Lumens	5205.6	1169.8	6375.4
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	33.4	0.5
20°-30°	70.9	1.1
30°-40°	144.4	2.3
40°-50°	367.1	5.8
50°-60°	1179.9	18.5
60°-70°	1925.5	30.2
70°-80°	1096.2	17.2
80°-90°	381.4	6.0
90°-100°	237.4	3.7
100°-110°	151.2	2.4
110°-120°	166.3	2.6
120°-130°	281.3	4.4
130°-140°	165.8	2.6
140°-150°	89.2	1.4
150°-160°	45.1	0.7
160°-170°	24.7	0.4
170°-180°	8.9	0.1
0°-90°	5205.6	81.7
0°-180°	6375.4	100.0



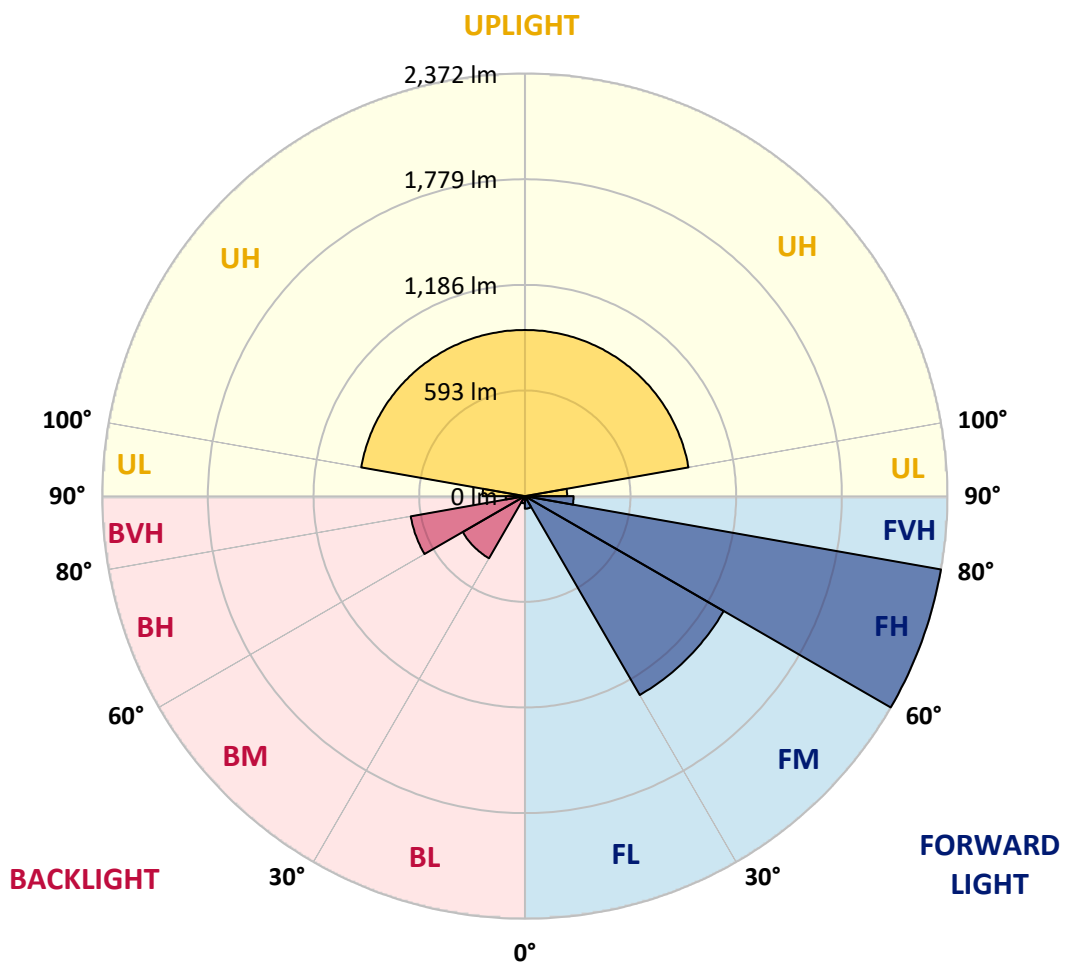
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	70.8	1.1			
FM (30°-60°)	1288.9	20.2			
FH (60°-80°)	2371.6	37.2			G2/5000
FVH (80°-90°)	273.5	4.3			G3/500
BL (0°-30°)	40.3	0.6	B0/110		
BM (30°-60°)	402.5	6.3	B1/1000		
BH (60°-80°)	650.2	10.2	B2/1000		G2/1000
BVH (80°-90°)	107.9	1.7			G2/225
UL (90°-100°)	237.4	3.7		U3/500	
UH (100°-180°)	932.4	14.6		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°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
2.5°	50.6	50.6	51.9	51.9	51.9	50.6	49.9	48.6	48.6	48.6	48.0
5°	65.7	65.0	65.7	67.7	68.3	66.4	65.0	63.1	63.1	62.4	62.4
7.5°	88.7	88.0	86.7	84.8	85.4	87.4	90.0	84.8	83.4	80.2	78.8
10°	111.0	109.7	111.0	107.7	104.5	99.9	102.5	101.2	98.5	95.3	92.6
12.5°	135.3	136.0	138.6	136.0	130.7	123.5	122.2	118.9	116.3	115.6	111.7
15°	160.3	161.0	163.6	162.9	157.7	147.8	143.9	140.6	139.3	135.3	126.8
17.5°	173.4	174.1	174.8	175.4	172.1	164.2	158.3	152.4	150.4	149.1	138.6
20°	180.0	178.7	180.0	182.6	185.3	178.7	172.8	169.5	167.5	162.9	149.1
22.5°	190.5	189.2	188.6	190.5	198.4	193.8	187.9	184.6	182.6	176.7	155.7
25°	201.7	200.4	202.4	201.0	210.9	208.9	203.0	199.7	197.1	189.9	165.6
27.5°	214.2	212.9	214.8	213.5	221.4	222.7	218.8	216.1	212.2	201.7	172.8
30°	224.7	223.4	225.3	224.7	232.6	237.2	235.2	234.5	228.6	216.1	185.3
32.5°	233.2	232.6	237.2	239.1	241.1	251.6	250.3	256.2	249.7	234.5	203.7
35°	252.9	254.9	267.4	280.5	282.5	303.5	306.2	327.8	321.3	301.6	264.1
37.5°	390.9	383.7	371.2	358.7	354.1	394.8	400.8	422.4	406.0	369.2	308.8
40°	416.5	404.7	390.3	380.4	381.7	454.6	442.2	524.3	477.6	422.4	377.1
42.5°	395.5	391.6	442.2	465.8	448.7	555.2	534.1	690.5	637.3	501.9	455.3
45°	496.0	488.1	505.9	529.5	534.8	730.6	716.1	879.7	858.0	627.4	584.1
47.5°	567.6	560.4	584.1	664.2	733.2	944.7	1023.6	1259.4	1183.2	891.5	791.0
50°	782.5	781.2	854.1	949.3	1070.2	1374.4	1584.0	1848.8	1725.9	1262.1	1084.7
52.5°	994.7	997.3	1086.7	1255.5	1381.0	1918.4	2216.0	2401.3	2417.7	1645.8	1406.0
55°	1155.0	1171.4	1279.2	1562.3	1752.2	2402.6	2788.9	2932.8	3097.0	2223.9	1740.4
57.5°	1467.7	1492.7	1595.2	1872.4	2137.8	3005.7	3527.4	3543.1	3788.2	2865.1	2099.1
60°	1741.0	1799.5	1835.6	2087.2	2449.2	3581.9	4075.9	4044.4	4274.4	3396.6	2463.0
62.5°	1825.8	1892.8	1926.9	2195.0	2695.6	3905.1	4332.2	4371.6	4529.9	3769.8	2685.8
65°	1881.0	1959.8	2011.0	2248.2	2698.2	4043.1	4526.6	4568.7	4666.6	3926.2	2796.8
67.5°	1852.7	1953.2	2018.9	2229.8	2556.3	3936.7	4487.9	4407.1	4510.9	3795.4	2672.6
70°	1617.5	1722.6	1789.0	1946.0	2137.2	3309.9	3869.0	3733.7	3825.0	3168.0	2197.6
72.5°	1317.9	1369.8	1410.6	1496.6	1610.9	2441.4	2940.0	2827.7	2882.2	2383.5	1647.1
75°	1082.7	1098.5	1149.1	1198.3	1217.4	1785.7	2329.0	2226.5	2290.3	1814.6	1310.7
77.5°	786.4	795.6	867.9	875.8	871.2	1225.3	1835.6	1745.6	1766.0	1348.8	978.3
80°	456.6	474.3	569.0	564.4	556.5	754.9	1292.3	1256.2	1193.1	915.8	677.4
82.5°	321.9	339.7	383.0	392.9	387.6	542.0	839.0	815.3	747.0	637.3	468.4
85°	339.0	341.0	342.9	347.5	339.0	483.5	642.5	630.7	631.4	526.9	386.3
87.5°	334.4	342.3	345.6	347.5	339.0	459.2	597.2	582.1	589.3	500.6	375.1
90°	293.7	308.1	309.4	312.7	308.1	410.0	536.1	521.6	530.8	451.3	341.6
92.5°	239.8	247.7	256.9	269.4	264.1	350.8	455.9	445.4	456.6	390.9	300.2
95°	227.3	235.9	241.8	250.3	242.4	320.0	411.9	390.9	400.1	342.3	258.9
97.5°	187.9	195.1	200.4	203.7	197.8	252.3	316.0	301.6	300.9	264.8	207.0
100°	160.3	164.9	169.5	172.8	167.5	208.9	250.3	245.1	246.4	218.8	178.0
102.5°	152.4	155.0	162.3	162.9	157.0	190.5	225.3	223.4	226.0	202.4	166.9
105°	149.1	151.1	157.0	155.0	149.8	178.0	207.6	208.9	208.9	188.6	156.4
107.5°	139.3	142.6	149.1	145.9	143.2	164.2	191.2	186.6	187.9	175.4	148.5
110°	138.0	140.6	147.2	144.5	142.6	160.3	184.0	182.6	184.6	173.4	152.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	171.5	168.8	174.1	168.8	172.1	187.2	212.2	209.6	215.5	211.5	190.5
115°	211.5	212.9	218.1	207.6	210.9	226.0	239.8	244.4	249.7	243.7	222.1
117.5°	195.8	207.0	200.4	199.1	196.4	208.3	206.3	218.1	223.4	218.8	210.2
120°	209.6	223.4	204.3	194.5	190.5	220.1	234.5	233.9	229.9	220.7	203.0
122.5°	313.4	315.4	316.7	346.2	335.7	364.6	373.2	362.0	362.0	373.8	337.7
125°	488.8	490.8	489.5	502.6	495.4	523.0	534.1	533.5	526.9	521.0	485.5
127.5°	494.1	494.1	489.5	482.2	488.8	515.7	516.4	541.4	532.8	517.0	484.2
130°	344.9	347.5	364.0	369.2	378.4	384.3	377.8	399.4	403.4	400.8	378.4
132.5°	285.8	290.4	308.1	314.7	320.6	321.3	318.6	335.7	339.7	339.7	329.8
135°	247.0	252.3	254.3	251.0	259.5	266.1	271.3	285.1	283.8	281.2	272.6
137.5°	215.5	217.5	211.5	204.3	208.9	228.0	238.5	252.9	252.3	247.7	233.2
140°	182.0	182.6	179.4	176.1	180.7	197.1	207.0	222.7	220.7	217.5	200.4
142.5°	138.0	139.9	148.5	155.0	166.2	200.4	195.1	208.9	218.8	226.7	187.2
145°	145.2	142.6	141.3	148.5	162.9	212.2	197.1	214.8	219.4	224.7	179.4
147.5°	167.5	168.8	166.9	162.3	182.0	197.8	189.2	205.0	207.6	206.3	187.9
150°	131.4	133.4	134.0	132.1	156.4	155.7	147.2	159.0	160.3	160.3	147.8
152.5°	107.1	107.7	106.4	105.1	120.9	118.3	114.3	118.3	117.6	116.9	114.3
155°	101.8	101.8	100.5	101.2	111.7	109.1	106.4	109.1	107.7	105.8	103.1
157.5°	93.9	94.6	94.6	96.6	103.1	98.5	95.9	97.2	95.9	94.6	94.6
160°	88.7	88.7	89.4	92.0	95.9	91.3	89.4	90.0	89.4	88.0	88.7
162.5°	86.7	86.7	87.4	88.7	89.4	86.7	84.8	84.8	84.8	84.8	86.7
165°	85.4	85.4	85.4	86.1	86.1	84.1	83.4	84.1	84.8	85.4	88.0
167.5°	88.0	88.0	88.0	88.0	87.4	86.1	85.4	86.1	86.7	87.4	89.4
170°	92.0	91.3	91.3	90.7	90.0	88.7	88.0	87.4	87.4	88.0	88.7
172.5°	94.6	94.6	93.9	93.9	93.3	92.0	90.7	90.0	90.0	90.0	90.0
175°	97.9	97.9	97.9	97.9	97.2	95.9	95.3	93.9	93.9	93.9	93.9
177.5°	101.8	101.8	101.8	101.8	100.5	99.2	97.9	96.6	96.6	96.6	95.9
180°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
2.5°	47.3	46.6	44.7	44.0	43.4	42.0	40.7	40.1	39.4	39.4	40.1
5°	63.1	62.4	62.4	60.4	58.5	55.2	53.9	53.9	54.5	55.2	56.5
7.5°	79.5	80.8	82.1	78.8	72.9	65.0	60.4	61.8	65.0	67.7	67.7
10°	92.0	92.0	96.6	92.6	82.8	72.9	66.4	65.0	65.7	66.4	67.0
12.5°	109.7	109.7	107.1	96.6	86.7	76.9	71.6	70.3	70.3	67.7	67.0
15°	122.9	118.9	109.7	99.9	91.3	81.5	75.6	73.6	71.6	69.6	69.0
17.5°	130.7	123.5	111.0	101.8	93.3	85.4	79.5	75.6	73.6	74.2	74.2
20°	139.9	132.1	120.9	111.0	100.5	90.0	82.8	76.9	74.9	75.6	74.9
22.5°	147.2	139.3	128.1	116.9	105.8	94.6	86.1	78.8	76.2	76.9	76.9
25°	155.7	149.1	137.3	124.2	110.4	99.9	91.3	82.8	78.8	78.2	78.2
27.5°	164.2	159.6	147.2	131.4	116.9	104.5	95.9	86.1	81.5	79.5	79.5
30°	175.4	170.2	157.7	138.6	122.9	111.0	101.8	91.3	84.8	81.5	80.8
32.5°	193.2	187.2	172.1	151.8	129.4	117.6	107.7	95.9	87.4	83.4	82.8
35°	251.0	241.8	218.1	194.5	158.3	131.4	115.0	99.9	90.0	84.8	84.1
37.5°	287.1	264.8	233.2	217.5	178.0	161.0	138.6	114.3	93.9	87.4	86.1
40°	345.6	314.7	275.3	244.4	173.4	176.1	162.3	142.6	111.7	92.0	90.0
42.5°	394.8	356.1	296.3	256.2	174.1	184.0	173.4	157.0	134.0	109.1	105.1
45°	486.8	436.9	344.3	275.3	178.7	195.8	182.6	165.6	145.2	128.1	126.1
47.5°	657.6	590.0	430.3	306.8	208.9	227.3	203.7	181.3	162.9	143.2	139.9
50°	900.1	819.3	529.5	331.8	260.8	299.6	256.9	219.4	198.4	184.0	182.0
52.5°	1179.3	1094.5	602.5	377.8	323.9	388.9	339.7	296.3	268.7	268.7	272.6
55°	1503.8	1419.1	660.9	441.5	401.4	487.5	434.3	398.8	385.7	441.5	456.6
57.5°	1825.8	1718.0	700.3	506.5	492.1	603.1	539.4	509.2	533.5	699.0	750.3
60°	2119.4	1941.4	731.2	568.3	569.6	695.1	647.8	645.8	683.3	894.8	959.9
62.5°	2288.9	2046.5	729.3	603.8	614.9	752.2	712.8	723.3	744.4	927.7	976.9
65°	2405.2	2096.4	714.1	619.5	634.0	772.6	723.3	705.6	691.8	821.2	868.5
67.5°	2325.1	1979.5	680.0	596.5	622.2	743.1	678.0	627.4	600.5	666.2	698.4
70°	1947.3	1651.0	601.8	536.8	560.4	626.1	563.7	513.8	485.5	521.0	536.1
72.5°	1474.9	1256.2	542.7	501.9	491.4	517.7	458.6	402.7	385.7	408.6	411.9
75°	1174.7	982.9	499.3	454.0	412.6	438.2	365.9	298.3	288.4	288.4	283.2
77.5°	881.0	728.6	425.7	353.5	304.2	346.2	272.6	207.6	194.5	191.8	184.6
80°	590.6	496.0	286.4	234.5	218.8	256.9	193.8	152.4	153.1	152.4	143.9
82.5°	412.6	383.0	232.6	204.3	187.2	202.4	175.4	146.5	145.2	146.5	137.3
85°	365.9	350.8	225.3	210.9	193.2	195.1	168.2	138.6	139.3	141.9	134.0
87.5°	351.5	334.4	226.0	203.7	188.6	180.7	152.4	128.1	132.1	134.7	128.1
90°	316.7	299.6	207.6	184.0	168.2	157.0	134.7	121.5	126.8	129.4	123.5
92.5°	274.6	256.9	172.8	162.3	158.3	158.3	141.3	129.4	132.7	134.0	128.8
95°	236.5	219.4	153.7	142.6	139.3	139.9	126.1	116.3	118.3	117.6	113.7
97.5°	191.2	180.7	134.0	126.8	123.5	122.2	113.0	105.8	109.7	112.3	109.1
100°	168.8	163.6	129.4	124.2	119.6	118.9	111.0	106.4	109.7	113.7	111.0
102.5°	157.7	153.7	123.5	116.3	113.0	111.7	106.4	101.2	104.5	108.4	106.4
105°	148.5	142.6	118.3	111.7	107.1	106.4	101.2	94.6	96.6	101.8	100.5
107.5°	140.6	136.7	117.6	110.4	104.5	104.5	98.5	93.3	93.9	95.9	95.9
110°	147.2	142.6	122.2	116.9	109.1	106.4	105.1	101.2	97.9	96.6	96.6



REPORT NUMBER: P856134
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	182.0	173.4	153.1	147.2	134.0	124.8	116.3	108.4	103.1	101.2	99.9
115°	214.8	205.0	180.7	165.6	147.8	134.0	122.2	113.7	105.8	103.1	105.8
117.5°	221.4	195.1	157.7	145.2	134.7	126.1	119.6	113.0	107.1	109.1	107.1
120°	219.4	187.2	159.0	176.7	159.0	139.3	123.5	123.5	121.5	111.7	113.7
122.5°	337.7	315.4	281.2	270.7	220.7	201.7	172.1	147.2	122.9	109.1	102.5
125°	462.5	440.8	388.3	348.2	298.3	245.7	188.6	145.2	113.7	100.5	102.5
127.5°	465.1	445.4	395.5	327.8	262.1	210.2	157.0	128.8	111.0	102.5	101.2
130°	362.7	343.6	300.9	249.0	207.6	173.4	141.3	116.3	100.5	93.9	92.0
132.5°	314.0	297.0	257.5	210.2	180.0	153.1	126.1	101.2	90.7	86.1	86.7
135°	264.1	243.7	206.3	180.7	161.6	137.3	113.0	92.6	87.4	86.1	85.4
137.5°	224.0	209.6	183.3	163.6	145.2	123.5	99.2	86.7	84.8	86.1	84.8
140°	190.5	178.7	164.2	147.2	124.8	104.5	88.7	82.8	86.1	86.7	86.1
142.5°	164.2	152.4	137.3	114.3	103.8	94.6	90.7	86.1	86.1	85.4	84.8
145°	137.3	121.5	114.3	117.6	111.0	101.8	94.6	85.4	82.1	82.1	82.8
147.5°	157.7	141.3	132.1	124.8	112.3	99.2	88.0	79.5	78.2	80.8	80.2
150°	136.0	120.9	114.3	104.5	96.6	86.7	79.5	76.2	76.9	80.2	80.2
152.5°	108.4	97.9	93.9	91.3	87.4	81.5	77.5	76.2	77.5	78.8	78.8
155°	101.8	95.9	91.3	89.4	84.8	80.2	76.9	76.2	77.5	78.8	80.2
157.5°	95.3	93.3	87.4	85.4	81.5	79.5	77.5	77.5	78.2	79.5	80.8
160°	90.7	90.0	84.8	84.1	81.5	80.2	80.2	80.8	81.5	81.5	81.5
162.5°	88.0	88.0	86.1	84.8	84.1	83.4	85.4	86.1	85.4	85.4	85.4
165°	88.7	89.4	87.4	86.1	85.4	86.7	90.0	90.0	88.7	88.0	87.4
167.5°	89.4	90.0	88.7	88.0	88.0	89.4	90.7	90.0	89.4	88.7	88.0
170°	88.7	89.4	89.4	90.0	90.0	90.0	91.3	91.3	90.0	89.4	89.4
172.5°	90.0	90.7	91.3	92.0	92.6	92.0	92.6	92.6	92.6	92.6	93.3
175°	93.9	93.9	94.6	94.6	93.9	94.6	94.6	94.6	95.3	96.6	96.6
177.5°	95.9	95.9	95.3	95.3	94.6	95.3	95.3	95.3	95.3	95.9	95.3
180°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2

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.

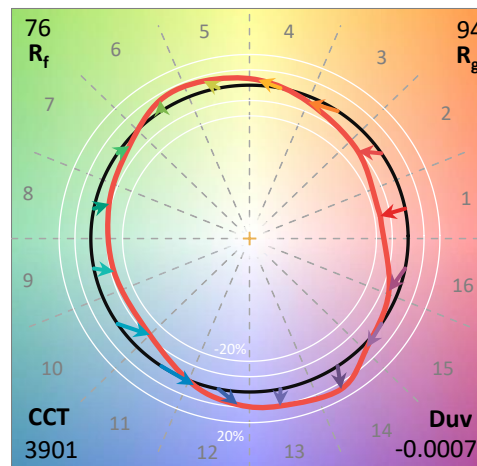
Test Information

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

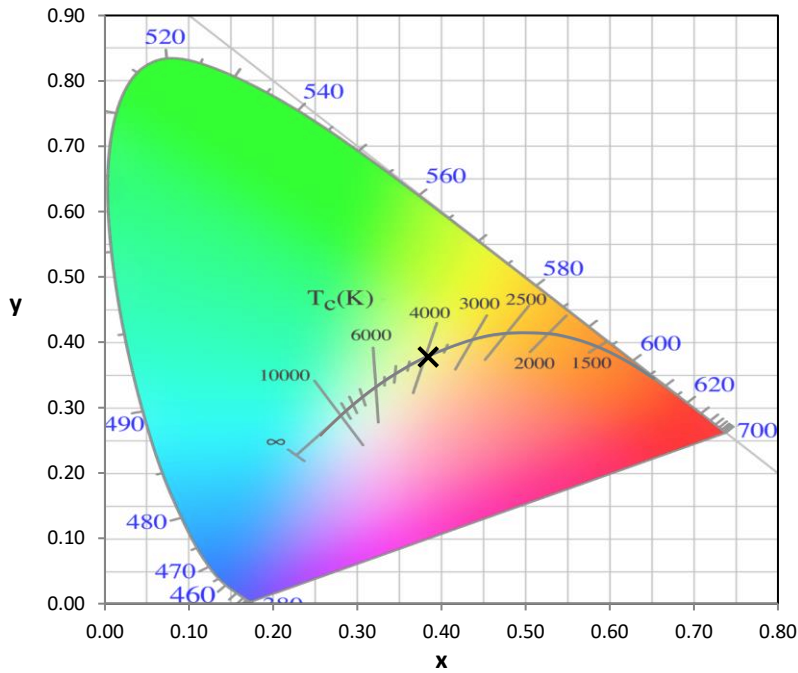
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

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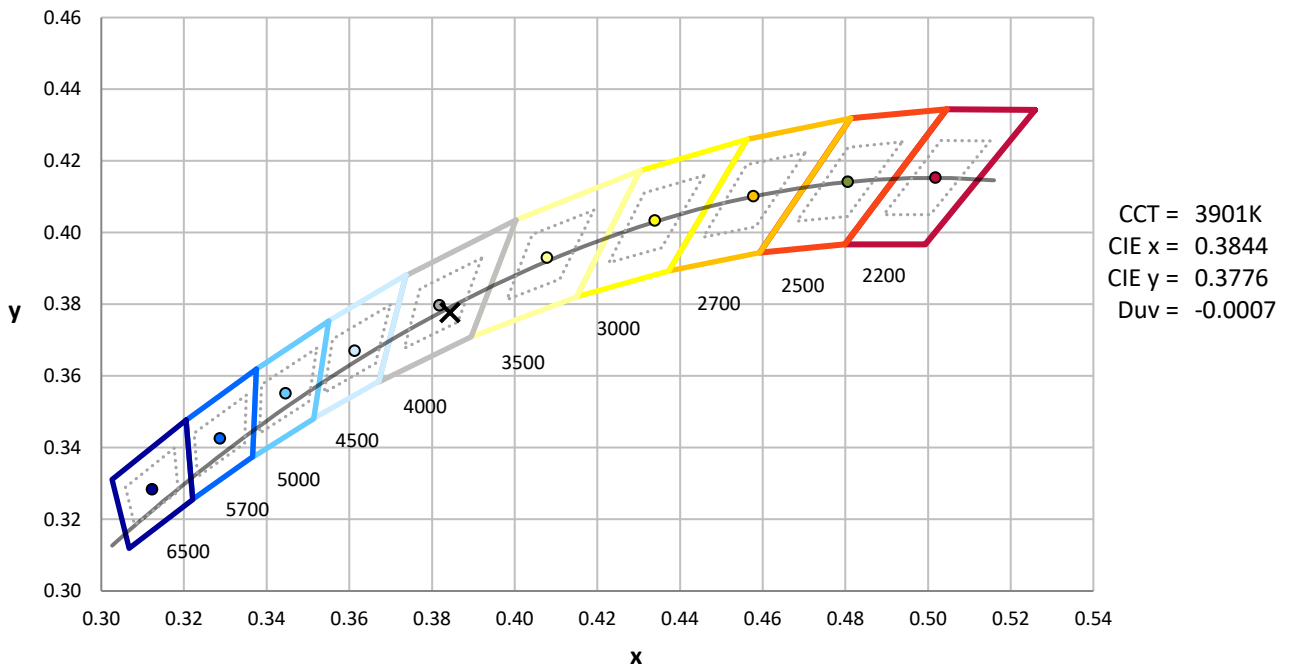
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



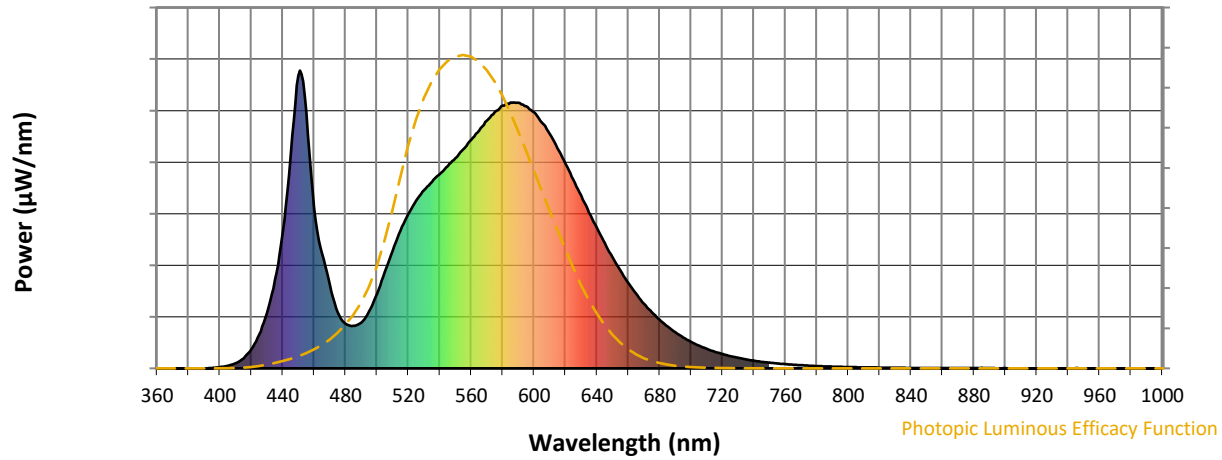
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

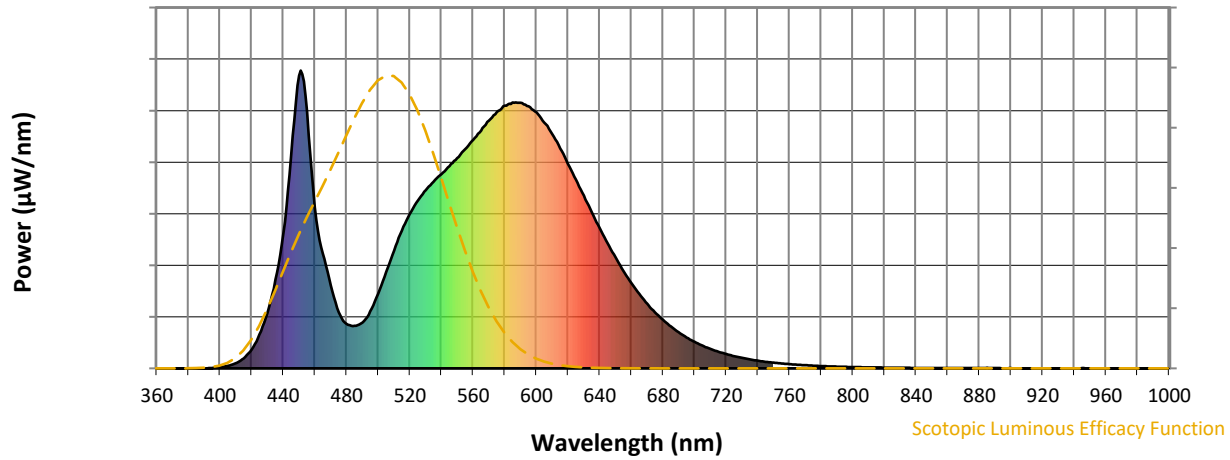


Photopic Lumens: NR

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



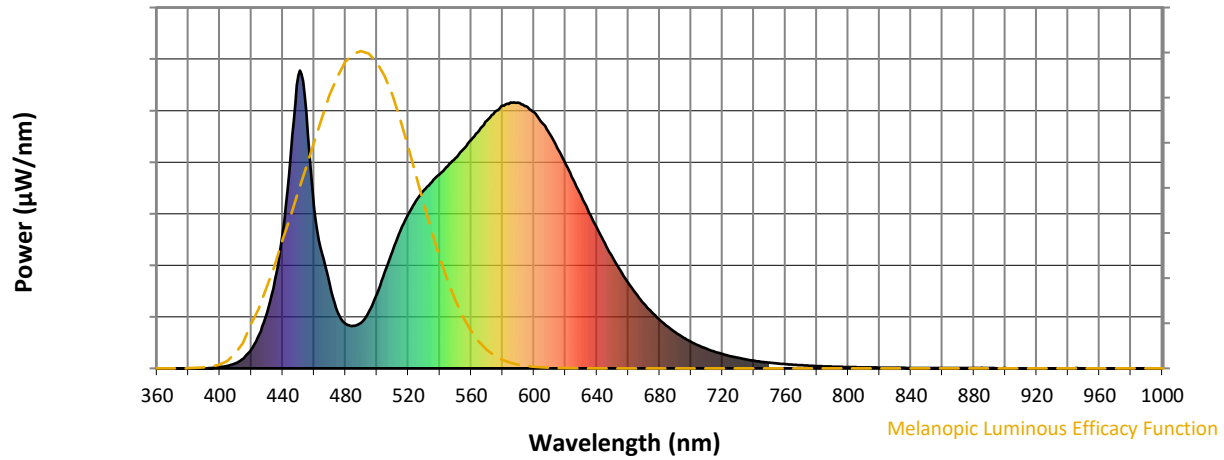
Scotopic Lumens: NR

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

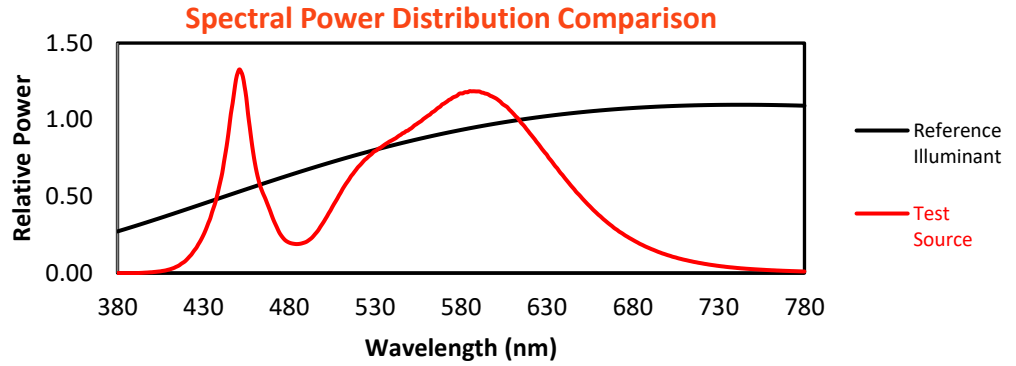
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251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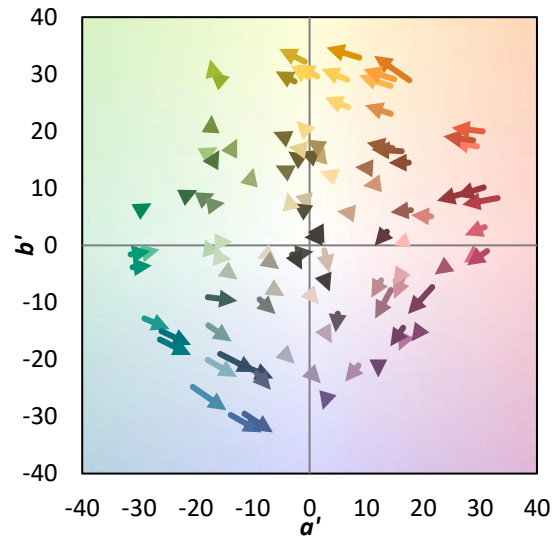
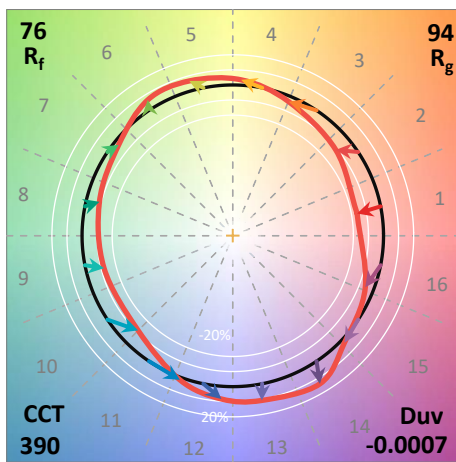
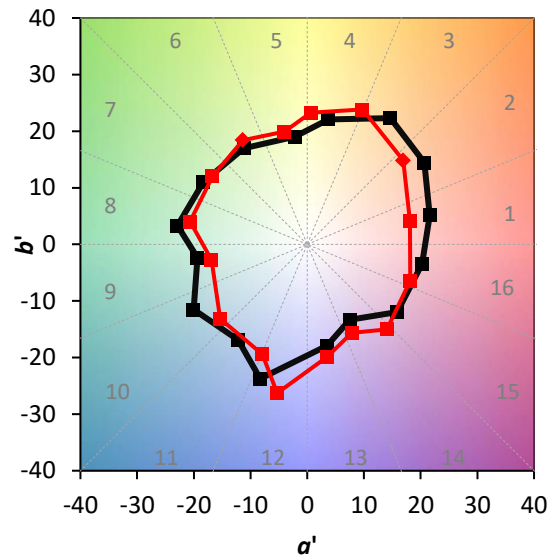
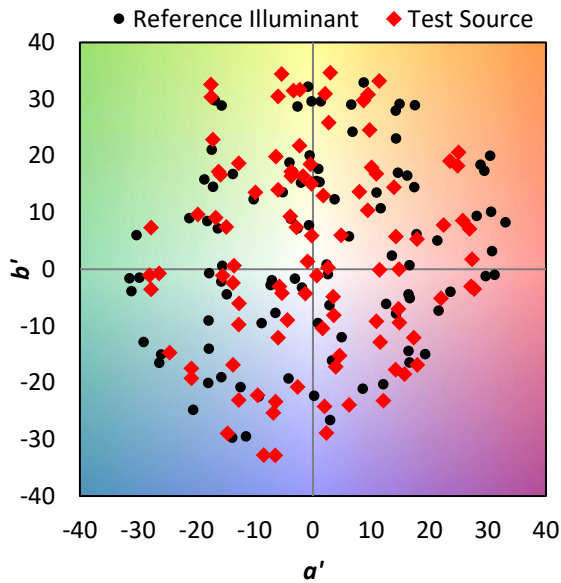
TM-30-18

Summary

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



Color Vector Graphics

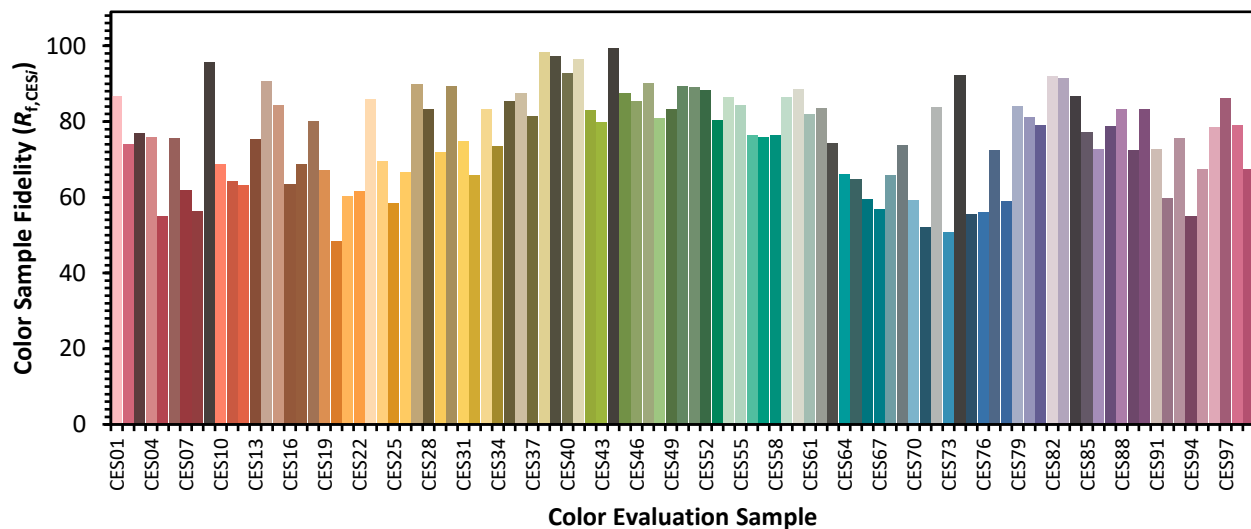


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TM-30-18

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

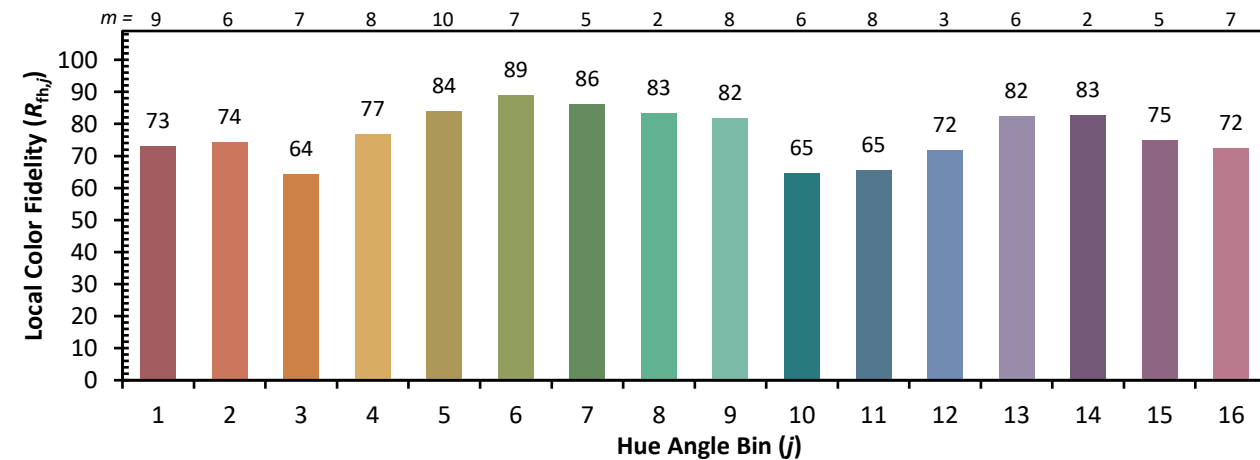
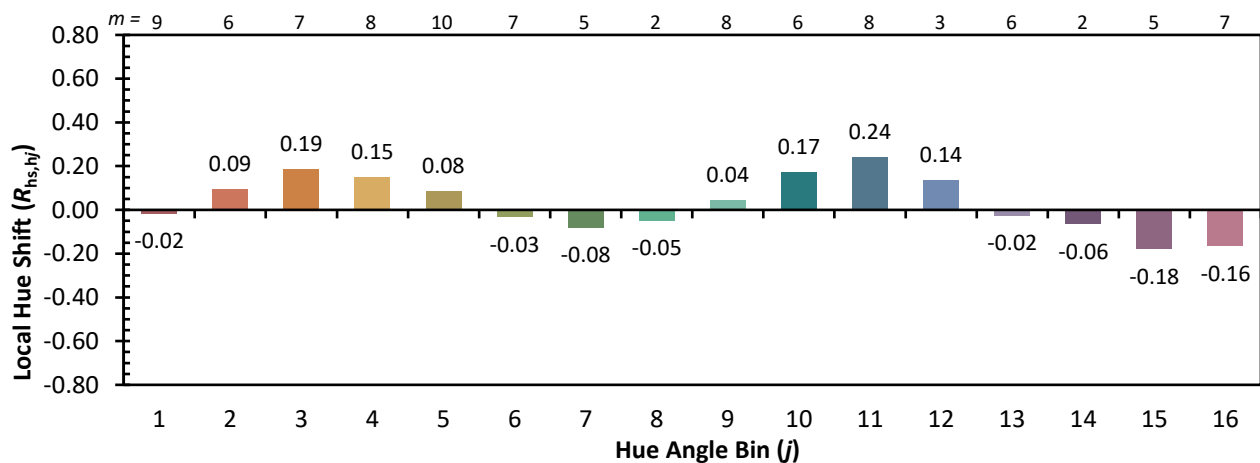
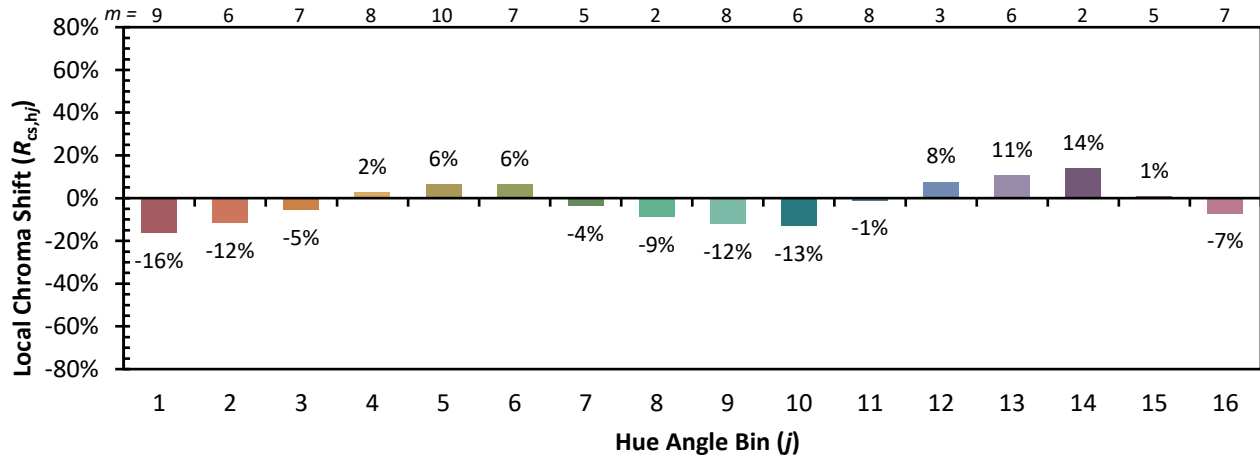
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CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57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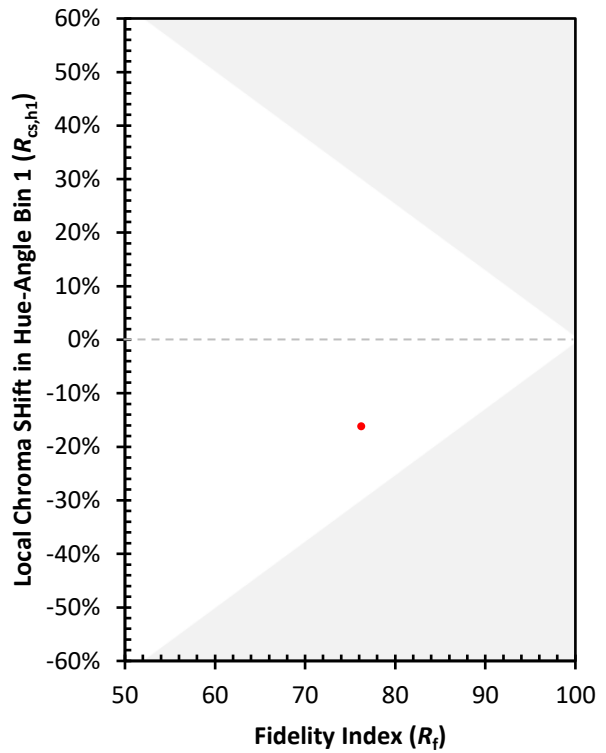
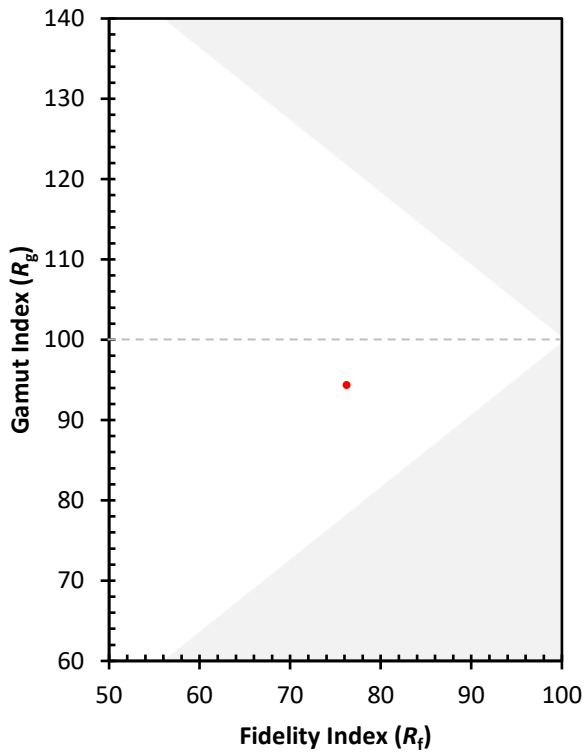
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)