

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: P856125

Luminaire Tested: **FFX-CLB-40-730-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856125  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-40-730-U-FR-T3  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS  
Light Source: (4) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

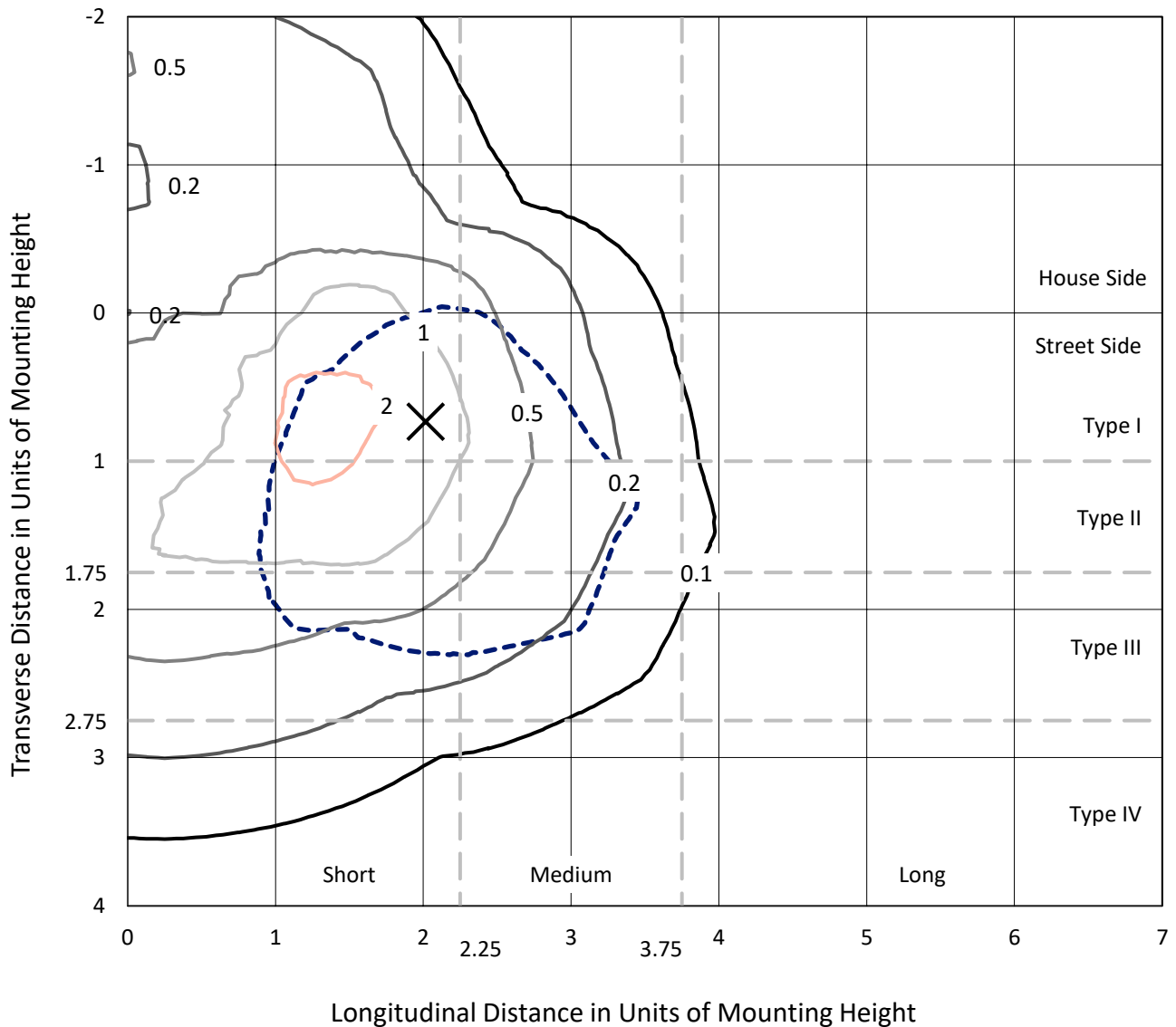
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6171.4 lumens  
Efficiency: N/A  
Efficacy: 157.0 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

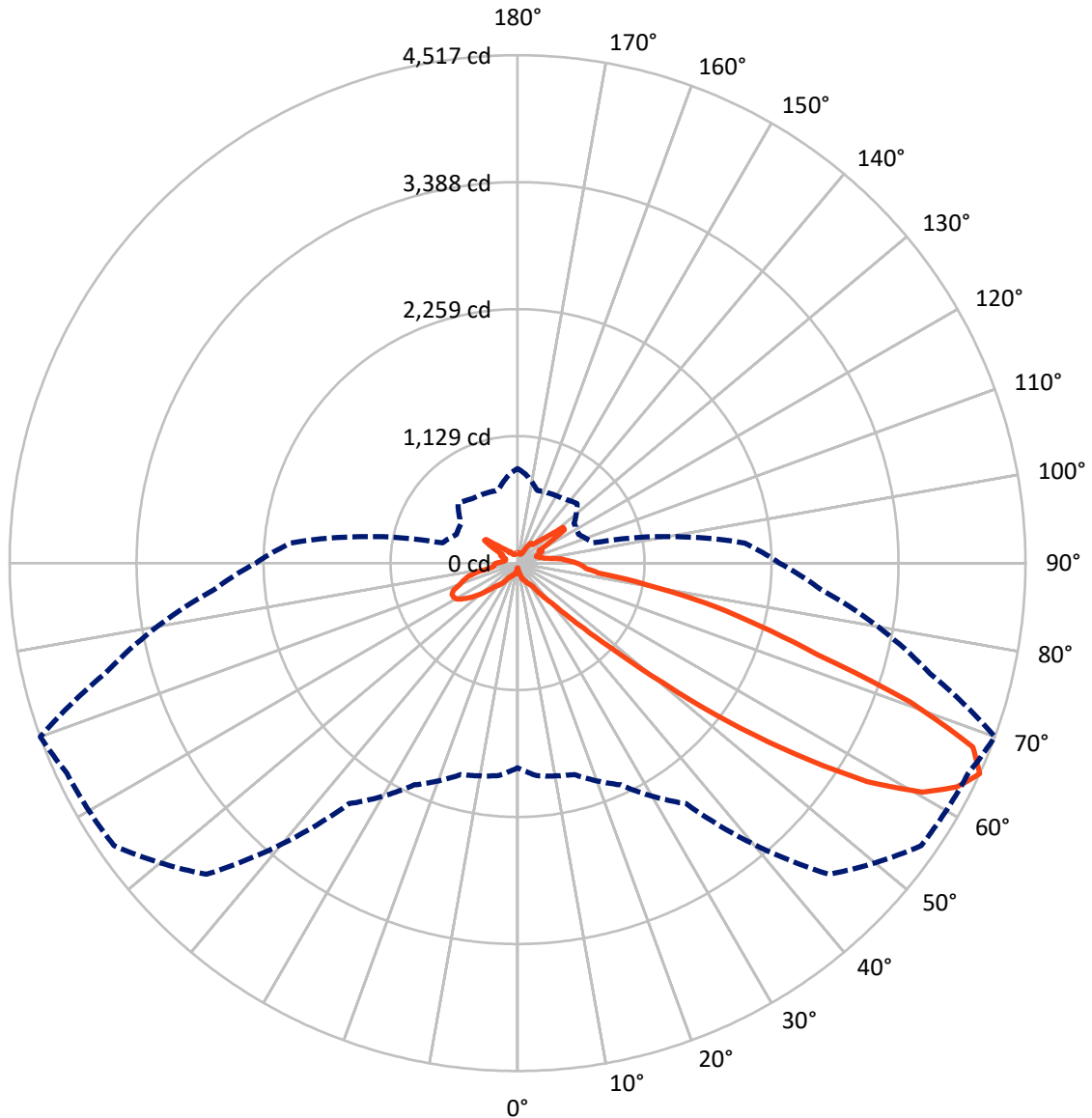
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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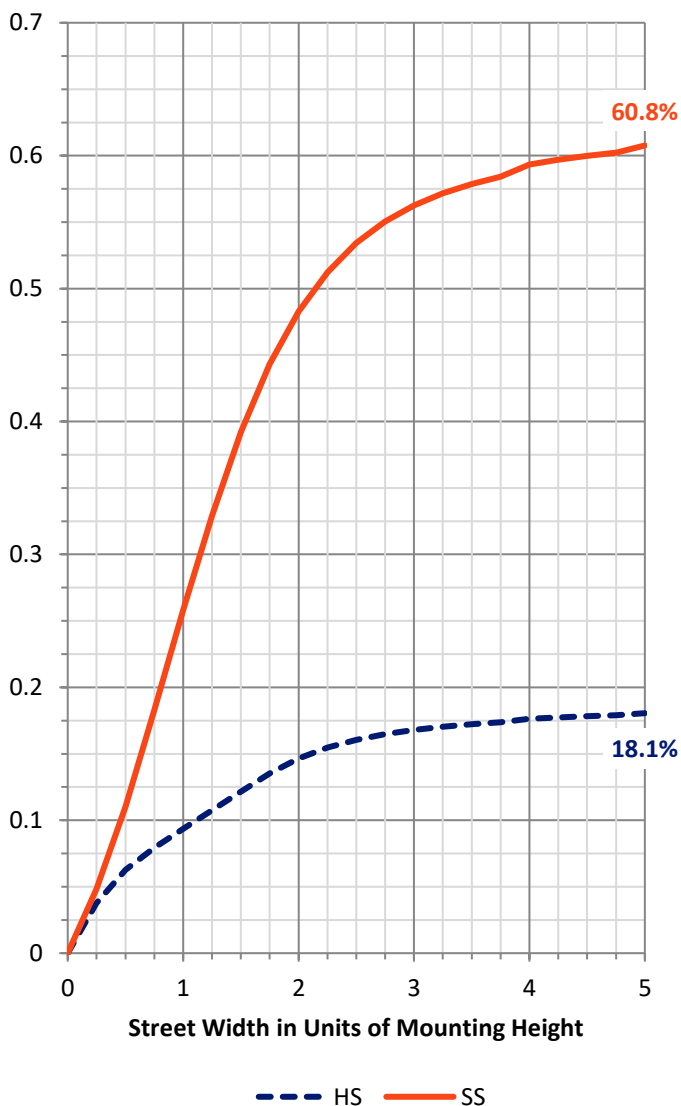
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1162.5	414.7	1577.2
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	3876.5	717.6	4594.2
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	5039.1	1132.4	6171.4
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	0.1
10°-20°	32.3	0.5
20°-30°	68.6	1.1
30°-40°	139.8	2.3
40°-50°	355.4	5.8
50°-60°	1142.1	18.5
60°-70°	1863.9	30.2
70°-80°	1061.1	17.2
80°-90°	369.2	6.0
90°-100°	229.8	3.7
100°-110°	146.3	2.4
110°-120°	161.0	2.6
120°-130°	272.3	4.4
130°-140°	160.5	2.6
140°-150°	86.4	1.4
150°-160°	43.7	0.7
160°-170°	23.9	0.4
170°-180°	8.6	0.1
0°-90°	5039.1	81.7
0°-180°	6171.4	100.0

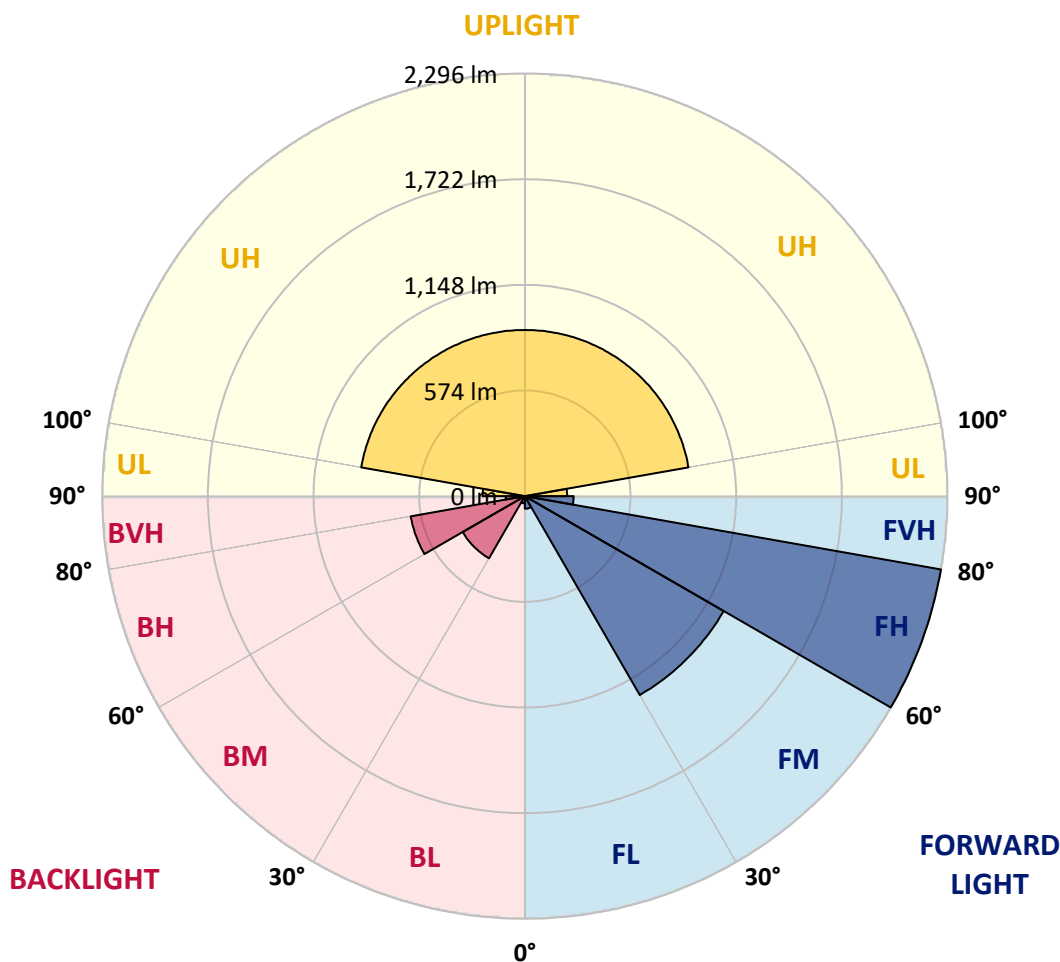


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	68.5	1.1			
FM (30°-60°)	1247.6	20.2			
FH (60°-80°)	2295.7	37.2			G2/5000
FVH (80°-90°)	264.7	4.3			G3/500
BL (0°-30°)	39.1	0.6	B0/110		
BM (30°-60°)	389.6	6.3	B1/1000		
BH (60°-80°)	629.4	10.2	B2/1000		G2/1000
BVH (80°-90°)	104.5	1.7			G2/225
UL (90°-100°)	229.8	3.7		U3/500	
UH (100°-180°)	902.6	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°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
2.5°	49.0	49.0	50.2	50.2	50.2	49.0	48.3	47.1	47.1	47.1	46.4
5°	63.6	63.0	63.6	65.5	66.1	64.2	63.0	61.1	61.1	60.4	60.4
7.5°	85.9	85.2	83.9	82.0	82.7	84.6	87.1	82.0	80.8	77.6	76.3
10°	107.5	106.2	107.5	104.3	101.1	96.7	99.2	97.9	95.4	92.2	89.7
12.5°	131.0	131.6	134.2	131.6	126.6	119.6	118.3	115.1	112.6	111.9	108.1
15°	155.2	155.8	158.4	157.7	152.6	143.1	139.3	136.1	134.8	131.0	122.7
17.5°	167.9	168.5	169.2	169.8	166.6	159.0	153.3	147.5	145.6	144.4	134.2
20°	174.3	173.0	174.3	176.8	179.3	173.0	167.3	164.1	162.2	157.7	144.4
22.5°	184.4	183.2	182.5	184.4	192.1	187.6	181.9	178.7	176.8	171.1	150.7
25°	195.2	194.0	195.9	194.6	204.1	202.2	196.5	193.3	190.8	183.8	160.3
27.5°	207.3	206.1	208.0	206.7	214.3	215.6	211.8	209.2	205.4	195.2	167.3
30°	217.5	216.2	218.1	217.5	225.1	229.6	227.7	227.0	221.3	209.2	179.3
32.5°	225.8	225.1	229.6	231.5	233.4	243.6	242.3	248.0	241.7	227.0	197.1
35°	244.8	246.8	258.8	271.6	273.5	293.8	296.4	317.3	311.0	291.9	255.7
37.5°	378.4	371.4	359.3	347.2	342.8	382.2	387.9	408.9	393.0	357.4	298.9
40°	403.2	391.8	377.8	368.2	369.5	440.1	428.0	507.5	462.3	408.9	365.0
42.5°	382.8	379.0	428.0	450.9	434.4	537.4	517.0	668.4	616.9	485.9	440.7
45°	480.2	472.5	489.7	512.6	517.7	707.2	693.2	851.6	830.6	607.3	565.4
47.5°	549.5	542.5	565.4	643.0	709.7	914.5	990.8	1219.1	1145.4	863.0	765.7
50°	757.4	756.2	826.8	919.0	1036.0	1330.4	1533.3	1789.6	1670.7	1221.7	1050.0
52.5°	962.8	965.4	1051.9	1215.3	1336.8	1857.0	2145.1	2324.4	2340.3	1593.1	1361.0
55°	1118.0	1133.9	1238.2	1512.3	1696.1	2325.7	2699.7	2838.9	2997.9	2152.7	1684.7
57.5°	1420.7	1444.9	1544.1	1812.5	2069.4	2909.5	3414.5	3429.7	3667.0	2773.4	2031.9
60°	1685.3	1741.9	1776.9	2020.5	2370.9	3467.3	3945.5	3915.0	4137.6	3287.9	2384.2
62.5°	1767.3	1832.2	1865.3	2124.8	2609.4	3780.2	4193.5	4231.7	4385.0	3649.2	2599.8
65°	1820.8	1897.1	1946.7	2176.3	2611.9	3913.7	4381.8	4422.5	4517.2	3800.5	2707.3
67.5°	1793.4	1890.7	1954.3	2158.5	2474.5	3810.7	4344.3	4266.0	4366.5	3674.0	2587.1
70°	1565.7	1667.5	1731.7	1883.7	2068.8	3204.0	3745.2	3614.2	3702.6	3066.6	2127.3
72.5°	1275.7	1326.0	1365.4	1448.7	1559.4	2363.2	2845.9	2737.2	2790.0	2307.3	1594.4
75°	1048.1	1063.3	1112.3	1160.0	1178.4	1728.5	2254.5	2155.3	2217.0	1756.5	1268.7
77.5°	761.2	770.2	840.1	847.7	843.3	1186.1	1776.9	1689.8	1709.5	1305.6	946.9
80°	442.0	459.2	550.7	546.3	538.7	730.7	1250.9	1216.0	1154.9	886.5	655.7
82.5°	311.6	328.8	370.8	380.3	375.2	524.7	812.1	789.2	723.1	616.9	453.4
85°	328.2	330.1	332.0	336.4	328.2	468.1	622.0	610.5	611.2	510.0	373.9
87.5°	323.7	331.3	334.5	336.4	328.2	444.5	578.1	563.5	570.5	484.6	363.1
90°	284.3	298.3	299.5	302.7	298.3	396.8	518.9	505.0	513.9	436.9	330.7
92.5°	232.1	239.8	248.7	260.7	255.7	339.6	441.4	431.2	442.0	378.4	290.6
95°	220.0	228.3	234.0	242.3	234.7	309.7	398.7	378.4	387.3	331.3	250.6
97.5°	181.9	188.9	194.0	197.1	191.4	244.2	305.9	291.9	291.3	256.3	200.3
100°	155.2	159.6	164.1	167.3	162.2	202.2	242.3	237.2	238.5	211.8	172.3
102.5°	147.5	150.1	157.1	157.7	152.0	184.4	218.1	216.2	218.8	195.9	161.5
105°	144.4	146.3	152.0	150.1	145.0	172.3	201.0	202.2	202.2	182.5	151.4
107.5°	134.8	138.0	144.4	141.2	138.6	159.0	185.1	180.6	181.9	169.8	143.7
110°	133.6	136.1	142.5	139.9	138.0	155.2	178.1	176.8	178.7	167.9	147.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	166.0	163.4	168.5	163.4	166.6	181.2	205.4	202.9	208.6	204.8	184.4
115°	204.8	206.1	211.1	201.0	204.1	218.8	232.1	236.6	241.7	235.9	215.0
117.5°	189.5	200.3	194.0	192.7	190.2	201.6	199.7	211.1	216.2	211.8	203.5
120°	202.9	216.2	197.8	188.2	184.4	213.0	227.0	226.4	222.6	213.7	196.5
122.5°	303.4	305.3	306.5	335.2	325.0	353.0	361.2	350.4	350.4	361.9	326.9
125°	473.2	475.1	473.8	486.5	479.5	506.2	517.0	516.4	510.0	504.3	470.0
127.5°	478.2	478.2	473.8	466.8	473.2	499.2	499.9	524.0	515.8	500.5	468.7
130°	333.9	336.4	352.3	357.4	366.3	372.0	365.7	386.7	390.5	387.9	366.3
132.5°	276.6	281.1	298.3	304.6	310.3	311.0	308.4	325.0	328.8	328.8	319.3
135°	239.1	244.2	246.1	242.9	251.2	257.6	262.7	276.0	274.7	272.2	263.9
137.5°	208.6	210.5	204.8	197.8	202.2	220.7	230.9	244.8	244.2	239.8	225.8
140°	176.2	176.8	173.6	170.4	174.9	190.8	200.3	215.6	213.7	210.5	194.0
142.5°	133.6	135.5	143.7	150.1	160.9	194.0	188.9	202.2	211.8	219.4	181.2
145°	140.5	138.0	136.7	143.7	157.7	205.4	190.8	208.0	212.4	217.5	173.6
147.5°	162.2	163.4	161.5	157.1	176.2	191.4	183.2	198.4	201.0	199.7	181.9
150°	127.2	129.1	129.7	127.8	151.4	150.7	142.5	153.9	155.2	155.2	143.1
152.5°	103.7	104.3	103.0	101.8	117.0	114.5	110.7	114.5	113.8	113.2	110.7
155°	98.6	98.6	97.3	97.9	108.1	105.6	103.0	105.6	104.3	102.4	99.8
157.5°	90.9	91.6	91.6	93.5	99.8	95.4	92.9	94.1	92.9	91.6	91.6
160°	85.9	85.9	86.5	89.0	92.9	88.4	86.5	87.1	86.5	85.2	85.9
162.5°	83.9	83.9	84.6	85.9	86.5	83.9	82.0	82.0	82.0	82.0	83.9
165°	82.7	82.7	82.7	83.3	83.3	81.4	80.8	81.4	82.0	82.7	85.2
167.5°	85.2	85.2	85.2	85.2	84.6	83.3	82.7	83.3	83.9	84.6	86.5
170°	89.0	88.4	88.4	87.8	87.1	85.9	85.2	84.6	84.6	85.2	85.9
172.5°	91.6	91.6	90.9	90.9	90.3	89.0	87.8	87.1	87.1	87.1	87.1
175°	94.8	94.8	94.8	94.8	94.1	92.9	92.2	90.9	90.9	90.9	90.9
177.5°	98.6	98.6	98.6	98.6	97.3	96.0	94.8	93.5	93.5	93.5	92.9
180°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
2.5°	45.8	45.2	43.2	42.6	42.0	40.7	39.4	38.8	38.2	38.2	38.8
5°	61.1	60.4	60.4	58.5	56.6	53.4	52.1	52.1	52.8	53.4	54.7
7.5°	77.0	78.2	79.5	76.3	70.6	63.0	58.5	59.8	63.0	65.5	65.5
10°	89.0	89.0	93.5	89.7	80.1	70.6	64.2	63.0	63.6	64.2	64.9
12.5°	106.2	106.2	103.7	93.5	83.9	74.4	69.3	68.0	68.0	65.5	64.9
15°	118.9	115.1	106.2	96.7	88.4	78.9	73.1	71.2	69.3	67.4	66.8
17.5°	126.6	119.6	107.5	98.6	90.3	82.7	77.0	73.1	71.2	71.9	71.9
20°	135.5	127.8	117.0	107.5	97.3	87.1	80.1	74.4	72.5	73.1	72.5
22.5°	142.5	134.8	124.0	113.2	102.4	91.6	83.3	76.3	73.8	74.4	74.4
25°	150.7	144.4	132.9	120.2	106.8	96.7	88.4	80.1	76.3	75.7	75.7
27.5°	159.0	154.5	142.5	127.2	113.2	101.1	92.9	83.3	78.9	77.0	77.0
30°	169.8	164.7	152.6	134.2	118.9	107.5	98.6	88.4	82.0	78.9	78.2
32.5°	187.0	181.2	166.6	146.9	125.3	113.8	104.3	92.9	84.6	80.8	80.1
35°	242.9	234.0	211.1	188.2	153.3	127.2	111.3	96.7	87.1	82.0	81.4
37.5°	277.9	256.3	225.8	210.5	172.3	155.8	134.2	110.7	90.9	84.6	83.3
40°	334.5	304.6	266.5	236.6	167.9	170.4	157.1	138.0	108.1	89.0	87.1
42.5°	382.2	344.7	286.8	248.0	168.5	178.1	167.9	152.0	129.7	105.6	101.8
45°	471.2	422.9	333.2	266.5	173.0	189.5	176.8	160.3	140.5	124.0	122.1
47.5°	636.6	571.1	416.6	297.0	202.2	220.0	197.1	175.5	157.7	138.6	135.5
50°	871.3	793.0	512.6	321.2	252.5	290.0	248.7	212.4	192.1	178.1	176.2
52.5°	1141.6	1059.5	583.2	365.7	313.5	376.5	328.8	286.8	260.1	260.1	263.9
55°	1455.7	1373.7	639.8	427.4	388.6	471.9	420.4	386.0	373.3	427.4	442.0
57.5°	1767.3	1663.0	677.9	490.3	476.3	583.8	522.1	492.9	516.4	676.7	726.3
60°	2051.6	1879.3	707.8	550.1	551.4	672.8	627.1	625.2	661.4	866.2	929.1
62.5°	2215.7	1981.0	705.9	584.4	595.3	728.2	690.0	700.2	720.5	898.0	945.7
65°	2328.3	2029.4	691.3	599.7	613.7	747.9	700.2	683.0	669.7	795.0	840.7
67.5°	2250.7	1916.2	658.2	577.5	602.3	719.3	656.3	607.3	581.3	644.9	676.0
70°	1885.0	1598.2	582.5	519.6	542.5	606.1	545.7	497.3	470.0	504.3	518.9
72.5°	1427.7	1216.0	525.3	485.9	475.7	501.1	443.9	389.8	373.3	395.6	398.7
75°	1137.1	951.4	483.3	439.5	399.4	424.2	354.2	288.7	279.2	279.2	274.1
77.5°	852.8	705.3	412.1	342.1	294.5	335.2	263.9	201.0	188.2	185.7	178.7
80°	571.7	480.2	277.3	227.0	211.8	248.7	187.6	147.5	148.2	147.5	139.3
82.5°	399.4	370.8	225.1	197.8	181.2	195.9	169.8	141.8	140.5	141.8	132.9
85°	354.2	339.6	218.1	204.1	187.0	188.9	162.8	134.2	134.8	137.4	129.7
87.5°	340.2	323.7	218.8	197.1	182.5	174.9	147.5	124.0	127.8	130.4	124.0
90°	306.5	290.0	201.0	178.1	162.8	152.0	130.4	117.7	122.7	125.3	119.6
92.5°	265.8	248.7	167.3	157.1	153.3	153.3	136.7	125.3	128.5	129.7	124.6
95°	228.9	212.4	148.8	138.0	134.8	135.5	122.1	112.6	114.5	113.8	110.0
97.5°	185.1	174.9	129.7	122.7	119.6	118.3	109.4	102.4	106.2	108.7	105.6
100°	163.4	158.4	125.3	120.2	115.7	115.1	107.5	103.0	106.2	110.0	107.5
102.5°	152.6	148.8	119.6	112.6	109.4	108.1	103.0	97.9	101.1	104.9	103.0
105°	143.7	138.0	114.5	108.1	103.7	103.0	97.9	91.6	93.5	98.6	97.3
107.5°	136.1	132.3	113.8	106.8	101.1	101.1	95.4	90.3	90.9	92.9	92.9
110°	142.5	138.0	118.3	113.2	105.6	103.0	101.8	97.9	94.8	93.5	93.5



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 CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	176.2	167.9	148.2	142.5	129.7	120.8	112.6	104.9	99.8	97.9	96.7
115°	208.0	198.4	174.9	160.3	143.1	129.7	118.3	110.0	102.4	99.8	102.4
117.5°	214.3	188.9	152.6	140.5	130.4	122.1	115.7	109.4	103.7	105.6	103.7
120°	212.4	181.2	153.9	171.1	153.9	134.8	119.6	119.6	117.7	108.1	110.0
122.5°	326.9	305.3	272.2	262.0	213.7	195.2	166.6	142.5	118.9	105.6	99.2
125°	447.7	426.7	375.9	337.1	288.7	237.9	182.5	140.5	110.0	97.3	99.2
127.5°	450.3	431.2	382.8	317.3	253.7	203.5	152.0	124.6	107.5	99.2	97.9
130°	351.1	332.6	291.3	241.0	201.0	167.9	136.7	112.6	97.3	90.9	89.0
132.5°	304.0	287.5	249.3	203.5	174.3	148.2	122.1	97.9	87.8	83.3	83.9
135°	255.7	235.9	199.7	174.9	156.4	132.9	109.4	89.7	84.6	83.3	82.7
137.5°	216.9	202.9	177.4	158.4	140.5	119.6	96.0	83.9	82.0	83.3	82.0
140°	184.4	173.0	159.0	142.5	120.8	101.1	85.9	80.1	83.3	83.9	83.3
142.5°	159.0	147.5	132.9	110.7	100.5	91.6	87.8	83.3	83.3	82.7	82.0
145°	132.9	117.7	110.7	113.8	107.5	98.6	91.6	82.7	79.5	79.5	80.1
147.5°	152.6	136.7	127.8	120.8	108.7	96.0	85.2	77.0	75.7	78.2	77.6
150°	131.6	117.0	110.7	101.1	93.5	83.9	77.0	73.8	74.4	77.6	77.6
152.5°	104.9	94.8	90.9	88.4	84.6	78.9	75.0	73.8	75.0	76.3	76.3
155°	98.6	92.9	88.4	86.5	82.0	77.6	74.4	73.8	75.0	76.3	77.6
157.5°	92.2	90.3	84.6	82.7	78.9	77.0	75.0	75.0	75.7	77.0	78.2
160°	87.8	87.1	82.0	81.4	78.9	77.6	77.6	78.2	78.9	78.9	78.9
162.5°	85.2	85.2	83.3	82.0	81.4	80.8	82.7	83.3	82.7	82.7	82.7
165°	85.9	86.5	84.6	83.3	82.7	83.9	87.1	87.1	85.9	85.2	84.6
167.5°	86.5	87.1	85.9	85.2	85.2	86.5	87.8	87.1	86.5	85.9	85.2
170°	85.9	86.5	86.5	87.1	87.1	87.1	88.4	88.4	87.1	86.5	86.5
172.5°	87.1	87.8	88.4	89.0	89.7	89.0	89.7	89.7	89.7	89.7	90.3
175°	90.9	90.9	91.6	91.6	90.9	91.6	91.6	91.6	92.2	93.5	93.5
177.5°	92.9	92.9	92.2	92.2	91.6	92.2	92.2	92.2	92.2	92.9	92.2
180°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1

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.

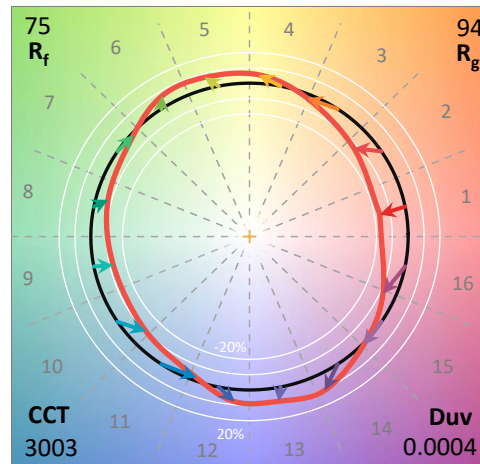
**Test Information**

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



**Test Conditions**

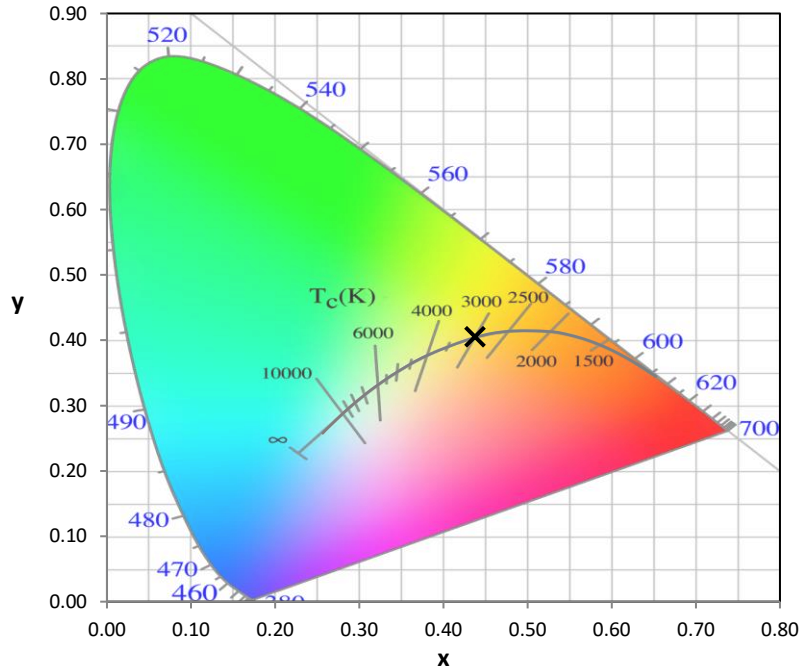
Stabilization Time: 0.794393M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

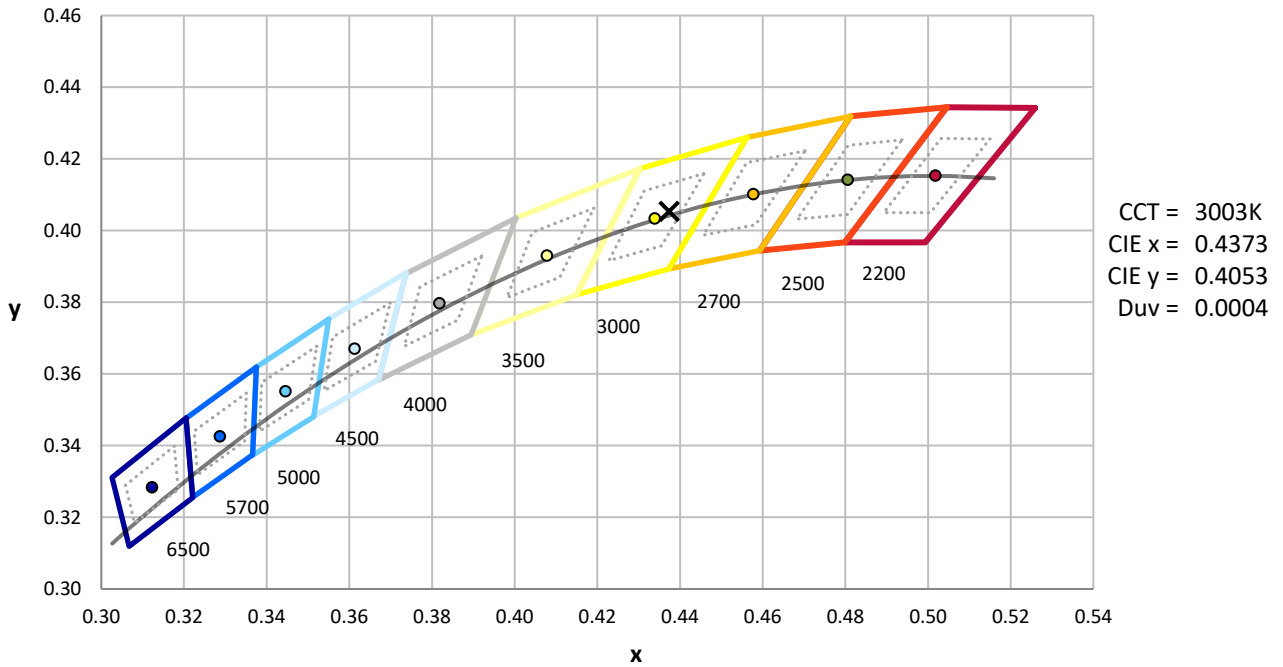
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



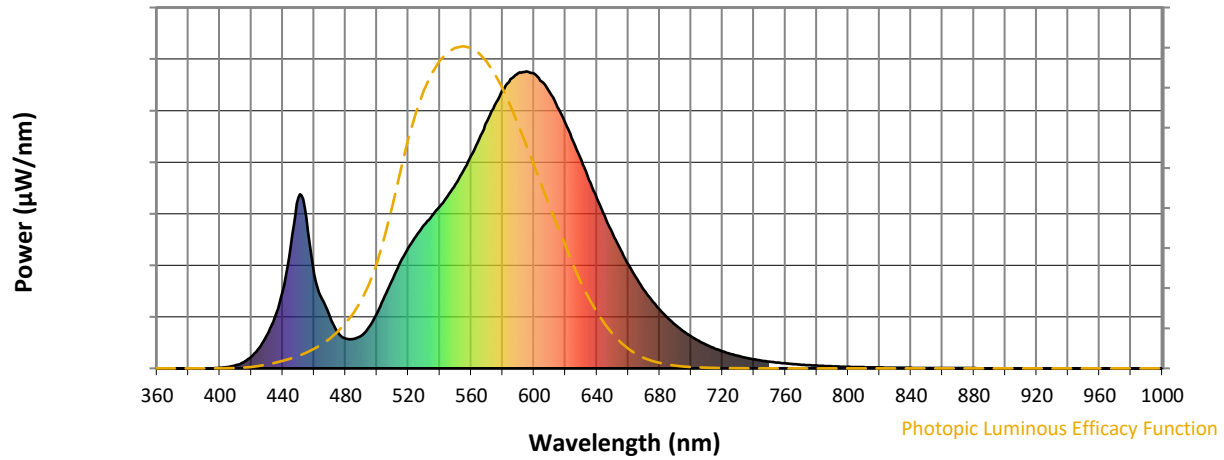
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

**Photopic Flux vs. Wavelength**

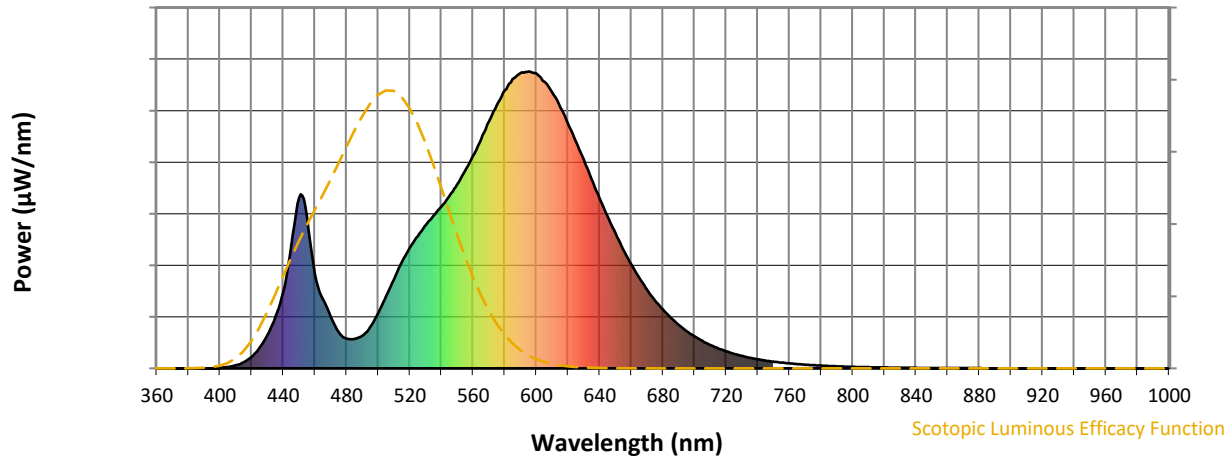


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

REPORT NUMBER: SP1-2406-133-4

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

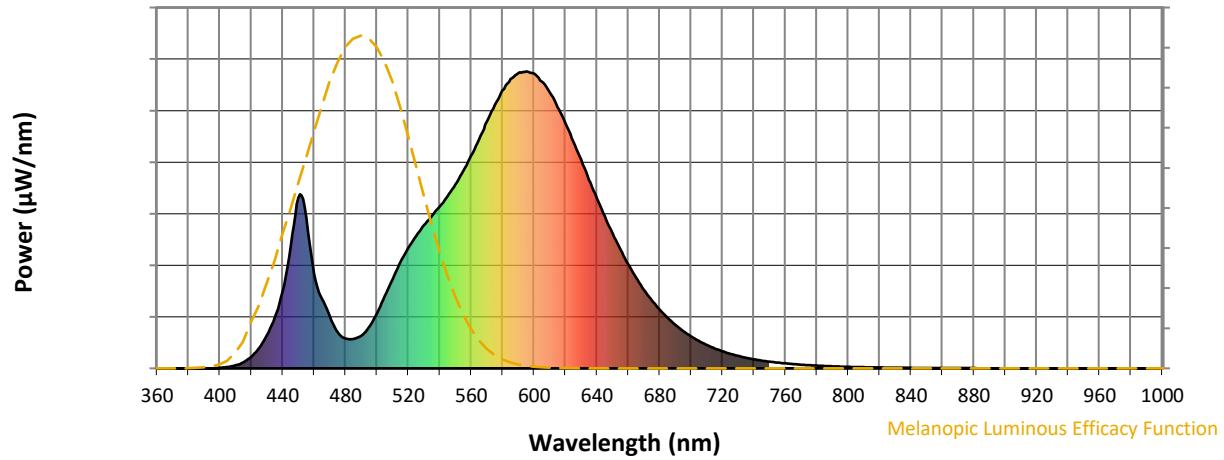
**S/P: 1.21**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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

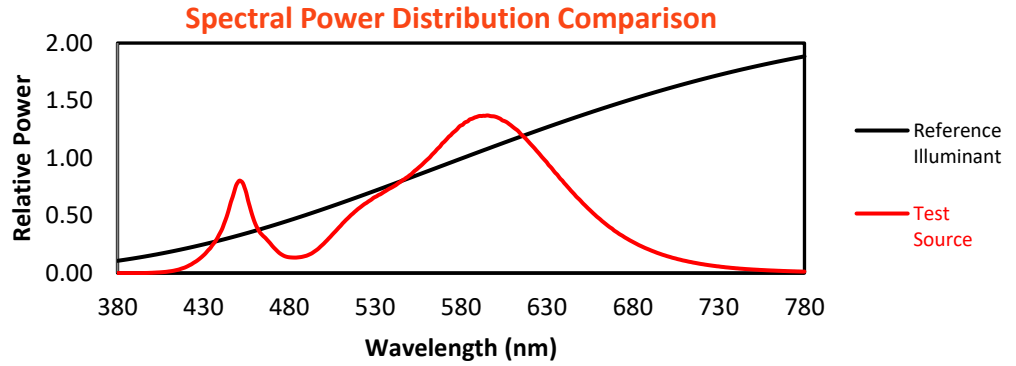
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	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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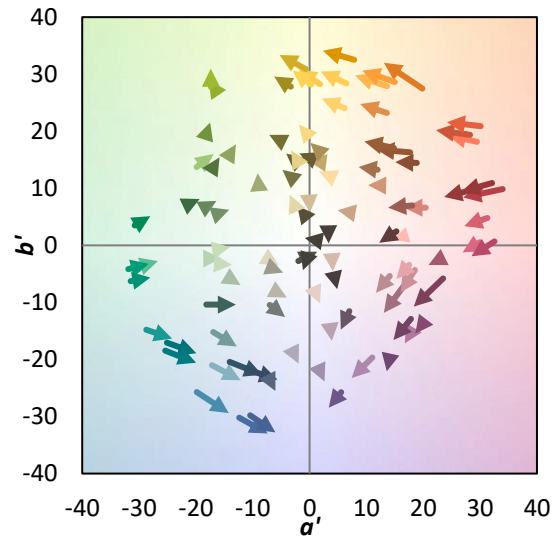
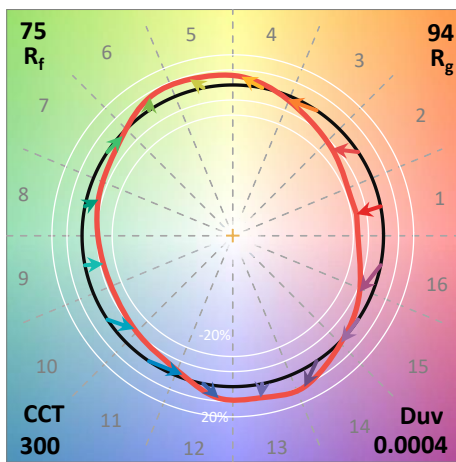
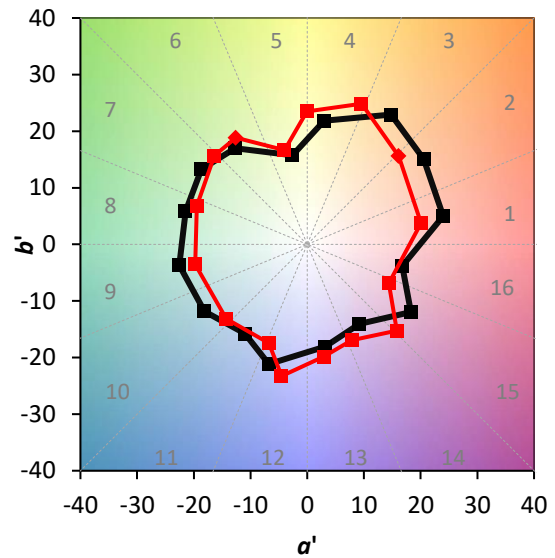
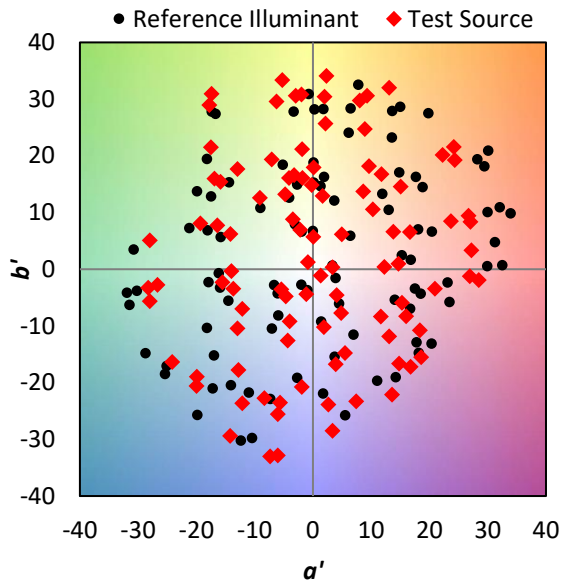
TM-30-18

**Summary**

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



**Color Vector Graphics**

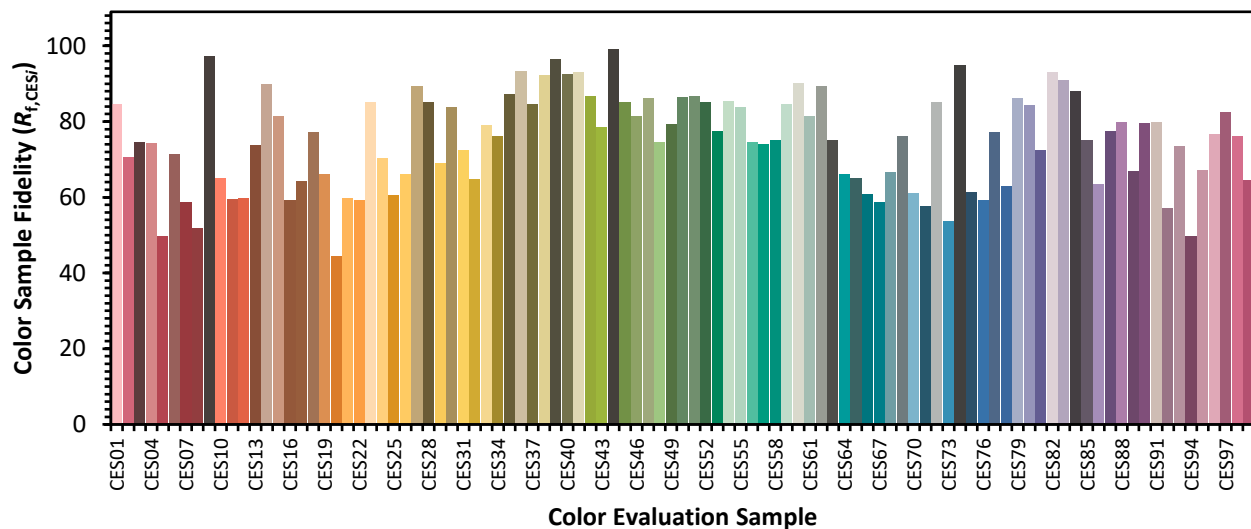


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

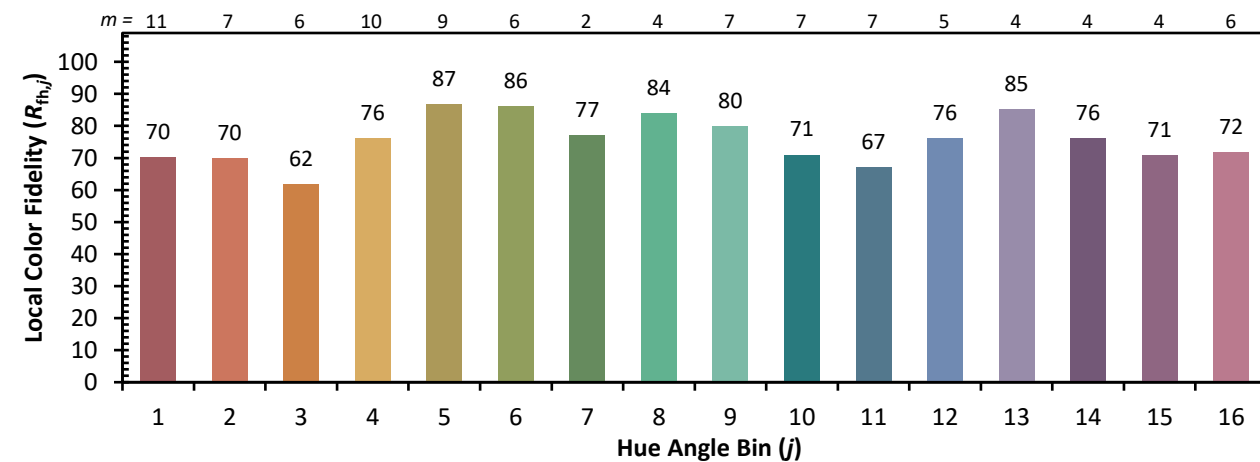
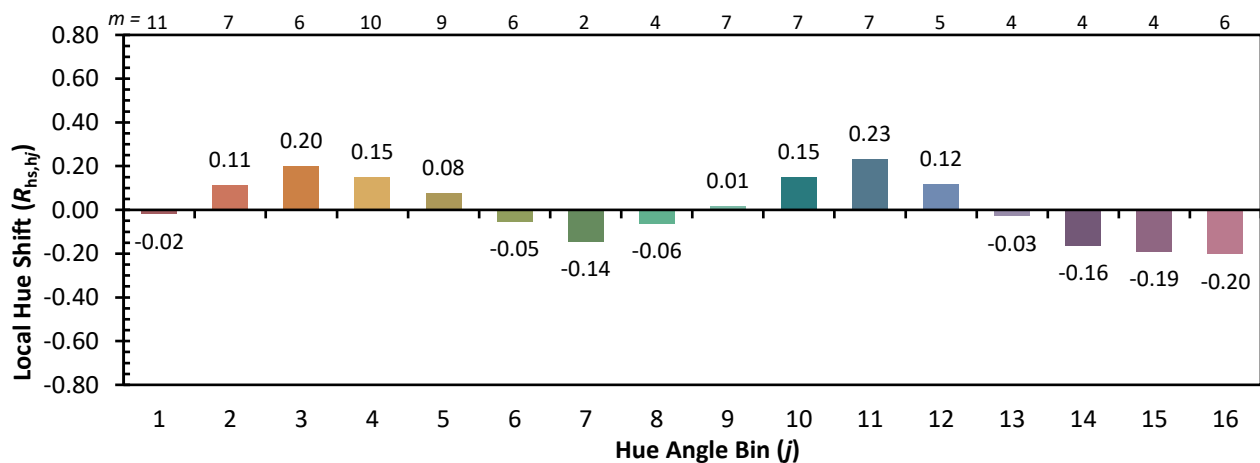
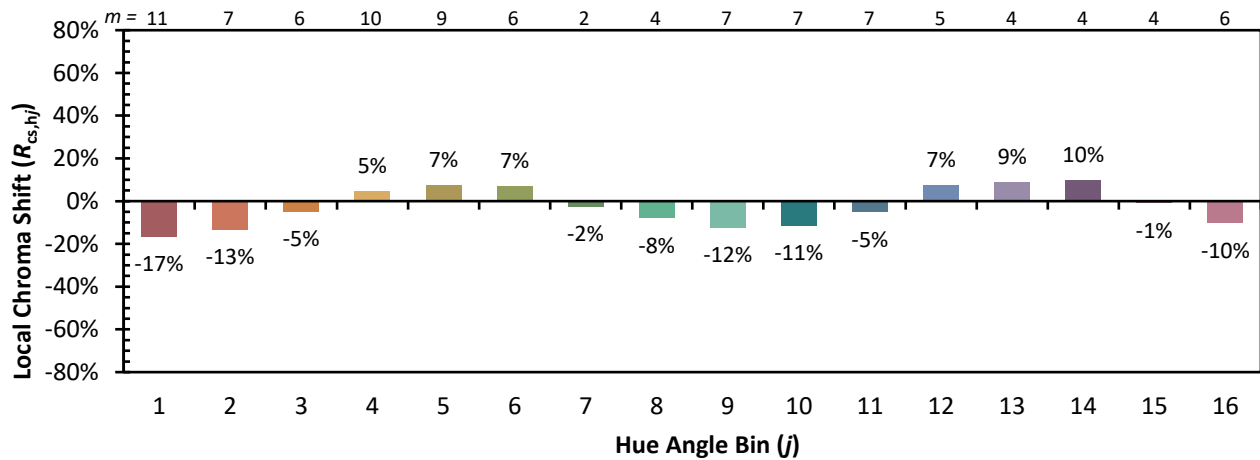
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 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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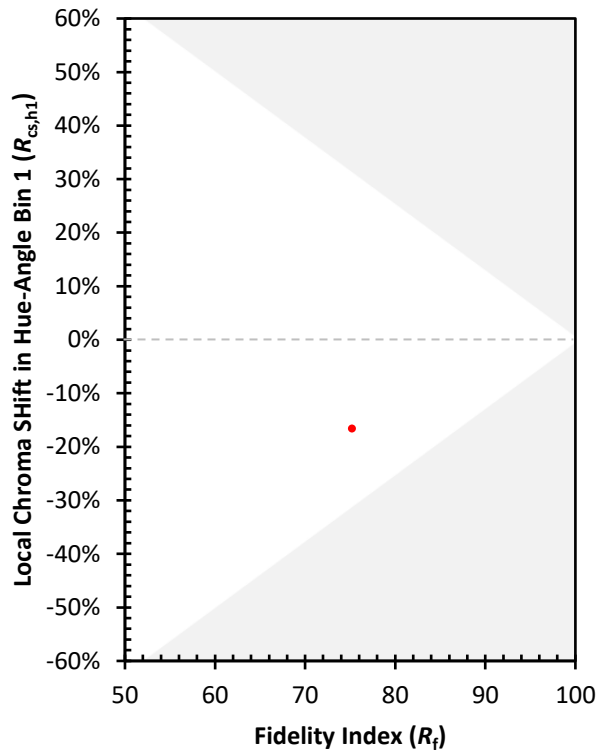
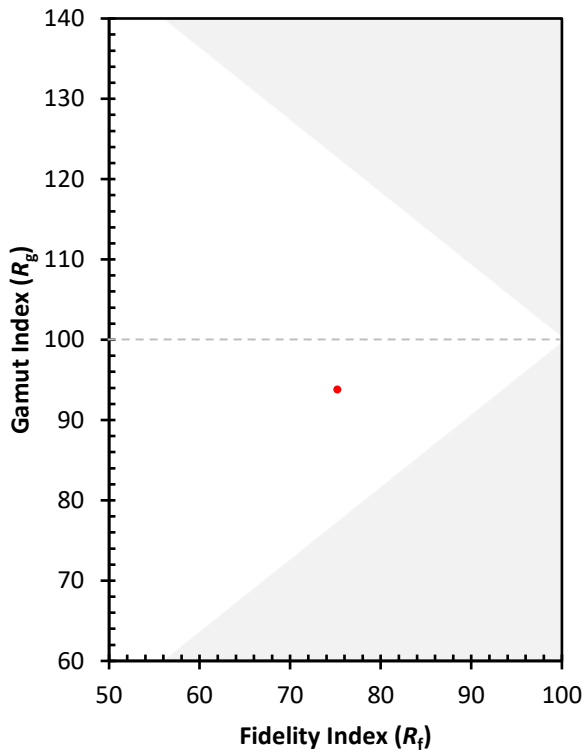
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)