

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: P856135

Luminaire Tested: **FFX-CLB-30-740-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856135  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-740-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**

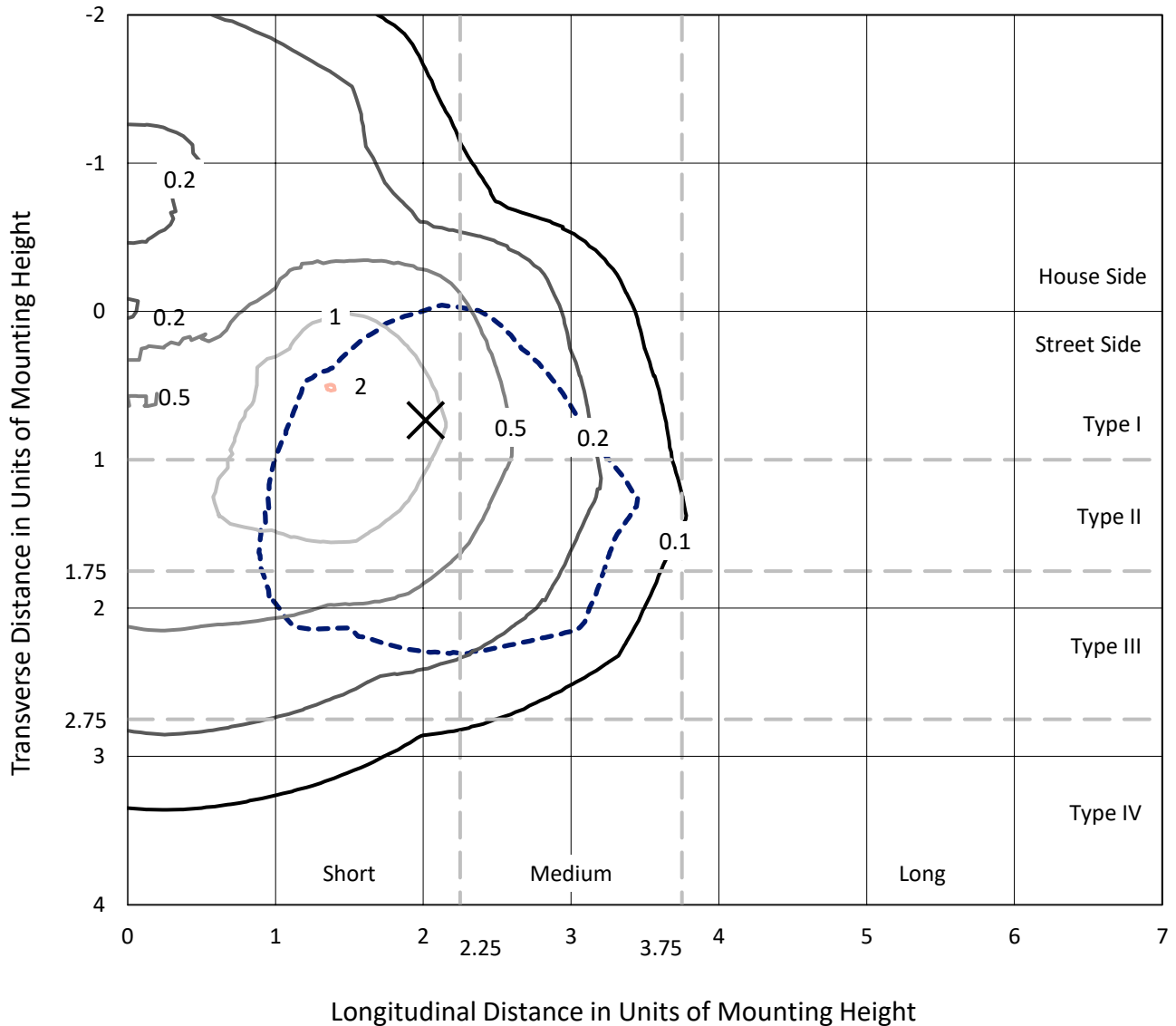
Lumens per Lamp: N/A  
Luminaire Lumens: 4943.9 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B2 - U4 - G2

Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 10.6%%  
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

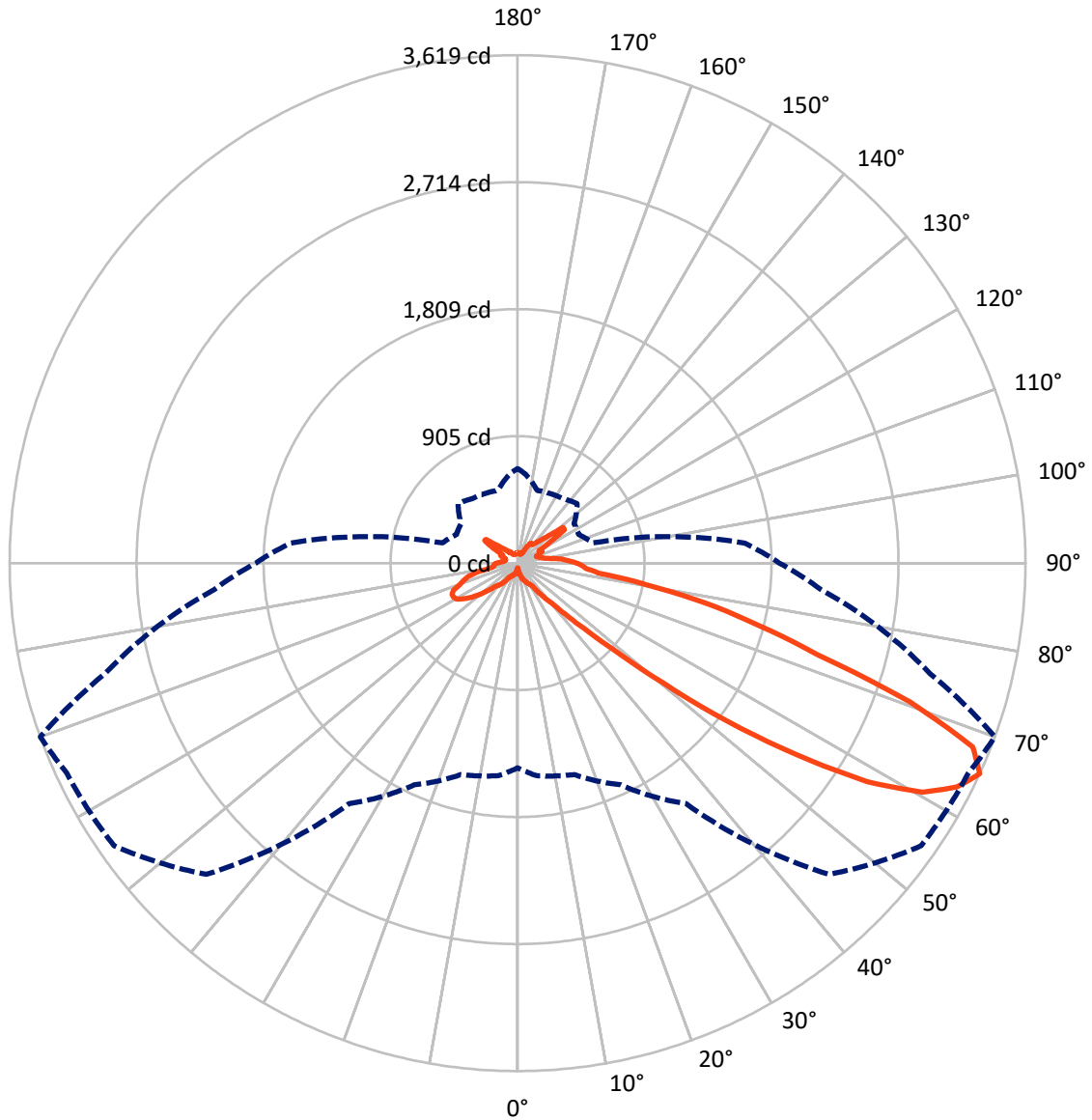
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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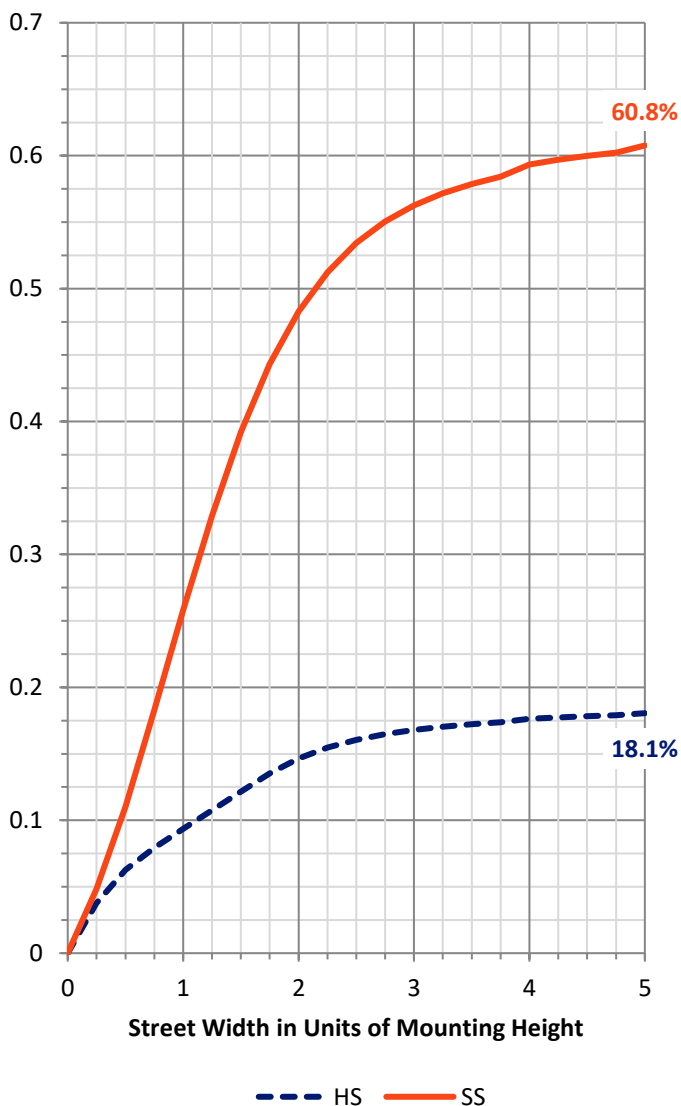
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	931.3	332.2	1263.5
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	3105.5	574.9	3680.4
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	4036.8	907.1	4943.9
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	25.9	0.5
20°-30°	55.0	1.1
30°-40°	112.0	2.3
40°-50°	284.7	5.8
50°-60°	915.0	18.5
60°-70°	1493.2	30.2
70°-80°	850.1	17.2
80°-90°	295.8	6.0
90°-100°	184.1	3.7
100°-110°	117.2	2.4
110°-120°	129.0	2.6
120°-130°	218.1	4.4
130°-140°	128.6	2.6
140°-150°	69.2	1.4
150°-160°	35.0	0.7
160°-170°	19.1	0.4
170°-180°	6.9	0.1
0°-90°	4036.8	81.7
0°-180°	4943.9	100.0

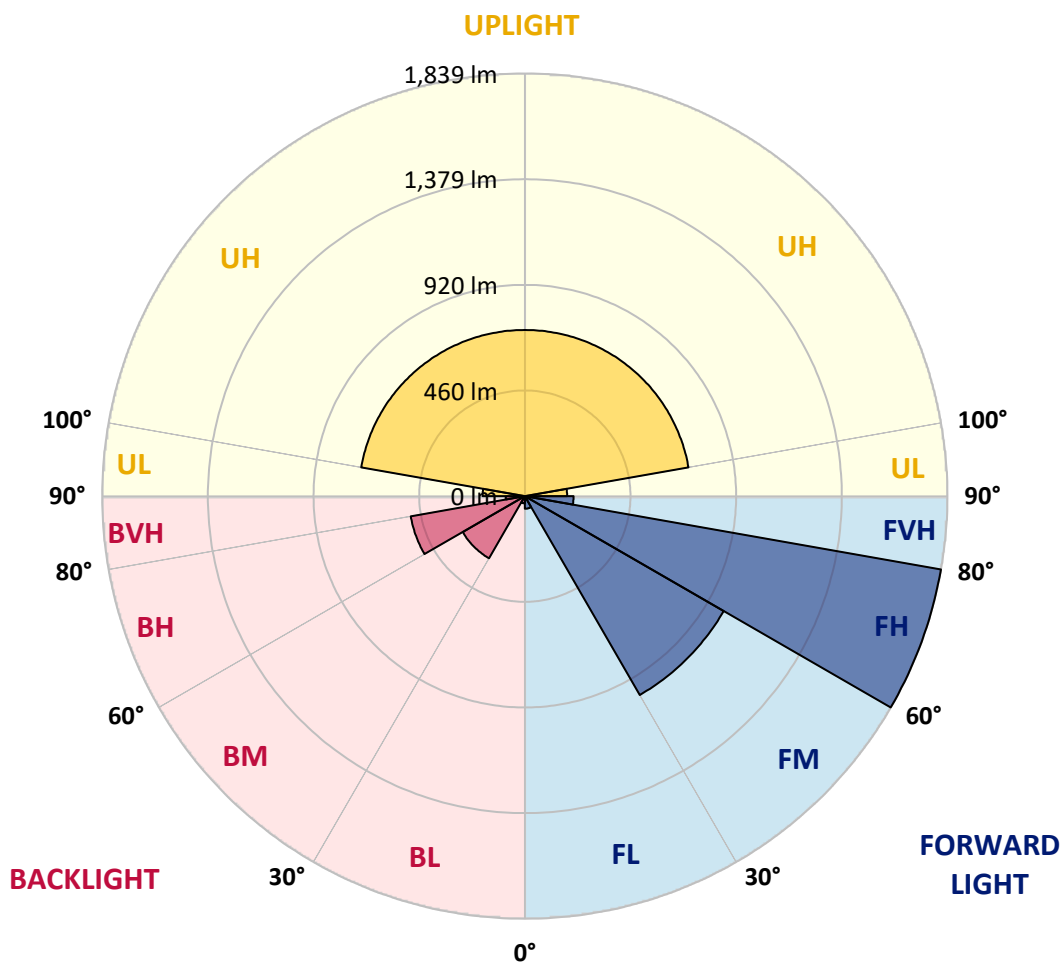


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	54.9	1.1			
FM (30°-60°)	999.5	20.2			
FH (60°-80°)	1839.1	37.2			G2/5000
FVH (80°-90°)	212.1	4.3			G2/225
BL (0°-30°)	31.3	0.6	B0/110		
BM (30°-60°)	312.1	6.3	B1/1000		
BH (60°-80°)	504.2	10.2	B2/1000		G2/1000
BVH (80°-90°)	83.7	1.7			G1/100
UL (90°-100°)	184.1	3.7		U3/500	
UH (100°-180°)	723.1	14.6		U4/1000	

**BUG Rating: B2-U4-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
2.5°	39.2	39.2	40.2	40.2	40.2	39.2	38.7	37.7	37.7	37.7	37.2
5°	50.9	50.4	50.9	52.5	53.0	51.5	50.4	48.9	48.9	48.4	48.4
7.5°	68.8	68.3	67.2	65.7	66.2	67.8	69.8	65.7	64.7	62.2	61.1
10°	86.1	85.1	86.1	83.6	81.0	77.4	79.5	78.5	76.4	73.9	71.8
12.5°	105.0	105.5	107.5	105.5	101.4	95.8	94.8	92.2	90.2	89.7	86.6
15°	124.3	124.8	126.9	126.3	122.3	114.6	111.6	109.0	108.0	105.0	98.3
17.5°	134.5	135.0	135.5	136.0	133.5	127.4	122.8	118.2	116.7	115.6	107.5
20°	139.6	138.6	139.6	141.6	143.7	138.6	134.0	131.4	129.9	126.3	115.6
22.5°	147.7	146.7	146.2	147.7	153.9	150.3	145.7	143.2	141.6	137.0	120.7
25°	156.4	155.4	156.9	155.9	163.5	162.0	157.4	154.9	152.8	147.2	128.4
27.5°	166.1	165.1	166.6	165.6	171.7	172.7	169.7	167.6	164.6	156.4	134.0
30°	174.2	173.2	174.7	174.2	180.4	183.9	182.4	181.9	177.3	167.6	143.7
32.5°	180.9	180.4	183.9	185.4	187.0	195.1	194.1	198.7	193.6	181.9	157.9
35°	196.1	197.7	207.4	217.5	219.1	235.4	237.4	254.2	249.1	233.8	204.8
37.5°	303.1	297.5	287.9	278.2	274.6	306.2	310.8	327.6	314.9	286.3	239.5
40°	323.0	313.8	302.6	295.0	296.0	352.6	342.9	406.6	370.4	327.6	292.4
42.5°	306.7	303.6	342.9	361.2	348.0	430.5	414.2	535.5	494.2	389.2	353.1
45°	384.6	378.5	392.3	410.6	414.7	566.5	555.3	682.2	665.4	486.5	452.9
47.5°	440.2	434.6	452.9	515.1	568.6	732.6	793.8	976.7	917.6	691.3	613.4
50°	606.8	605.8	662.3	736.2	829.9	1065.8	1228.3	1433.6	1338.4	978.7	841.1
52.5°	771.3	773.4	842.7	973.6	1070.9	1487.7	1718.4	1862.1	1874.8	1276.2	1090.3
55°	895.6	908.4	991.9	1211.5	1358.8	1863.1	2162.7	2274.3	2401.6	1724.6	1349.6
57.5°	1138.2	1157.5	1237.0	1452.0	1657.8	2330.8	2735.3	2747.6	2937.6	2221.8	1627.8
60°	1350.1	1395.4	1423.5	1618.6	1899.3	2777.6	3160.7	3136.3	3314.6	2634.0	1910.0
62.5°	1415.8	1467.8	1494.3	1702.1	2090.4	3028.3	3359.4	3390.0	3512.8	2923.3	2082.7
65°	1458.6	1519.7	1559.5	1743.4	2092.4	3135.3	3510.2	3542.8	3618.8	3044.6	2168.8
67.5°	1436.7	1514.7	1565.6	1729.1	1982.3	3052.7	3480.2	3417.5	3498.0	2943.2	2072.5
70°	1254.3	1335.8	1387.3	1509.0	1657.3	2566.7	3000.3	2895.3	2966.1	2456.7	1704.2
72.5°	1022.0	1062.2	1093.8	1160.6	1249.2	1893.2	2279.9	2192.8	2235.0	1848.4	1277.2
75°	839.6	851.8	891.1	929.3	944.0	1384.7	1806.1	1726.6	1776.0	1407.2	1016.4
77.5°	609.8	617.0	673.0	679.1	675.6	950.2	1423.5	1353.7	1369.5	1045.9	758.6
80°	354.1	367.8	441.2	437.6	431.5	585.4	1002.1	974.1	925.2	710.2	525.3
82.5°	249.6	263.4	297.0	304.7	300.6	420.3	650.6	632.3	579.3	494.2	363.3
85°	262.9	264.4	265.9	269.5	262.9	375.0	498.3	489.1	489.6	408.6	299.6
87.5°	259.3	265.4	268.0	269.5	262.9	356.1	463.1	451.4	457.0	388.2	290.9
90°	227.7	238.9	240.0	242.5	238.9	317.9	415.7	404.5	411.7	350.0	264.9
92.5°	186.0	192.1	199.2	208.9	204.8	272.1	353.6	345.4	354.1	303.1	232.8
95°	176.3	182.9	187.5	194.1	188.0	248.1	319.4	303.1	310.3	265.4	200.7
97.5°	145.7	151.3	155.4	157.9	153.4	195.6	245.1	233.8	233.3	205.3	160.5
100°	124.3	127.9	131.4	134.0	129.9	162.0	194.1	190.0	191.1	169.7	138.1
102.5°	118.2	120.2	125.8	126.3	121.8	147.7	174.7	173.2	175.3	156.9	129.4
105°	115.6	117.2	121.8	120.2	116.2	138.1	161.0	162.0	162.0	146.2	121.3
107.5°	108.0	110.6	115.6	113.1	111.1	127.4	148.3	144.7	145.7	136.0	115.1
110°	107.0	109.0	114.1	112.1	110.6	124.3	142.7	141.6	143.2	134.5	118.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	133.0	130.9	135.0	130.9	133.5	145.2	164.6	162.5	167.1	164.0	147.7
115°	164.0	165.1	169.1	161.0	163.5	175.3	186.0	189.5	193.6	189.0	172.2
117.5°	151.8	160.5	155.4	154.4	152.3	161.5	160.0	169.1	173.2	169.7	163.0
120°	162.5	173.2	158.4	150.8	147.7	170.7	181.9	181.4	178.3	171.2	157.4
122.5°	243.0	244.5	245.6	268.5	260.3	282.8	289.4	280.7	280.7	289.9	261.9
125°	379.0	380.6	379.6	389.7	384.1	405.5	414.2	413.7	408.6	404.0	376.5
127.5°	383.1	383.1	379.6	374.0	379.0	399.9	400.4	419.8	413.2	401.0	375.5
130°	267.5	269.5	282.2	286.3	293.5	298.0	292.9	309.8	312.8	310.8	293.5
132.5°	221.6	225.2	238.9	244.0	248.6	249.1	247.1	260.3	263.4	263.4	255.8
135°	191.6	195.6	197.2	194.6	201.2	206.3	210.4	221.1	220.1	218.1	211.4
137.5°	167.1	168.6	164.0	158.4	162.0	176.8	184.9	196.1	195.6	192.1	180.9
140°	141.1	141.6	139.1	136.5	140.1	152.8	160.5	172.7	171.2	168.6	155.4
142.5°	107.0	108.5	115.1	120.2	128.9	155.4	151.3	162.0	169.7	175.8	145.2
145°	112.6	110.6	109.5	115.1	126.3	164.6	152.8	166.6	170.2	174.2	139.1
147.5°	129.9	130.9	129.4	125.8	141.1	153.4	146.7	159.0	161.0	160.0	145.7
150°	101.9	103.4	103.9	102.4	121.3	120.7	114.1	123.3	124.3	124.3	114.6
152.5°	83.0	83.6	82.5	81.5	93.7	91.7	88.6	91.7	91.2	90.7	88.6
155°	79.0	79.0	77.9	78.5	86.6	84.6	82.5	84.6	83.6	82.0	80.0
157.5°	72.9	73.4	73.4	74.9	80.0	76.4	74.4	75.4	74.4	73.4	73.4
160°	68.8	68.8	69.3	71.3	74.4	70.8	69.3	69.8	69.3	68.3	68.8
162.5°	67.2	67.2	67.8	68.8	69.3	67.2	65.7	65.7	65.7	65.7	67.2
165°	66.2	66.2	66.2	66.7	66.7	65.2	64.7	65.2	65.7	66.2	68.3
167.5°	68.3	68.3	68.3	68.3	67.8	66.7	66.2	66.7	67.2	67.8	69.3
170°	71.3	70.8	70.8	70.3	69.8	68.8	68.3	67.8	67.8	68.3	68.8
172.5°	73.4	73.4	72.9	72.9	72.3	71.3	70.3	69.8	69.8	69.8	69.8
175°	75.9	75.9	75.9	75.9	75.4	74.4	73.9	72.9	72.9	72.9	72.9
177.5°	79.0	79.0	79.0	79.0	77.9	76.9	75.9	74.9	74.9	74.9	74.4
180°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
2.5°	36.7	36.2	34.6	34.1	33.6	32.6	31.6	31.1	30.6	30.6	31.1
5°	48.9	48.4	48.4	46.9	45.3	42.8	41.8	41.8	42.3	42.8	43.8
7.5°	61.6	62.7	63.7	61.1	56.6	50.4	46.9	47.9	50.4	52.5	52.5
10°	71.3	71.3	74.9	71.8	64.2	56.6	51.5	50.4	50.9	51.5	52.0
12.5°	85.1	85.1	83.0	74.9	67.2	59.6	55.5	54.5	54.5	52.5	52.0
15°	95.3	92.2	85.1	77.4	70.8	63.2	58.6	57.1	55.5	54.0	53.5
17.5°	101.4	95.8	86.1	79.0	72.3	66.2	61.6	58.6	57.1	57.6	57.6
20°	108.5	102.4	93.7	86.1	77.9	69.8	64.2	59.6	58.1	58.6	58.1
22.5°	114.1	108.0	99.3	90.7	82.0	73.4	66.7	61.1	59.1	59.6	59.6
25°	120.7	115.6	106.5	96.3	85.6	77.4	70.8	64.2	61.1	60.6	60.6
27.5°	127.4	123.8	114.1	101.9	90.7	81.0	74.4	66.7	63.2	61.6	61.6
30°	136.0	132.0	122.3	107.5	95.3	86.1	79.0	70.8	65.7	63.2	62.7
32.5°	149.8	145.2	133.5	117.7	100.4	91.2	83.6	74.4	67.8	64.7	64.2
35°	194.6	187.5	169.1	150.8	122.8	101.9	89.2	77.4	69.8	65.7	65.2
37.5°	222.6	205.3	180.9	168.6	138.1	124.8	107.5	88.6	72.9	67.8	66.7
40°	268.0	244.0	213.5	189.5	134.5	136.5	125.8	110.6	86.6	71.3	69.8
42.5°	306.2	276.1	229.8	198.7	135.0	142.7	134.5	121.8	103.9	84.6	81.5
45°	377.5	338.8	267.0	213.5	138.6	151.8	141.6	128.4	112.6	99.3	97.8
47.5°	510.0	457.5	333.7	237.9	162.0	176.3	157.9	140.6	126.3	111.1	108.5
50°	698.0	635.3	410.6	257.3	202.3	232.3	199.2	170.2	153.9	142.7	141.1
52.5°	914.5	848.8	467.2	292.9	251.2	301.6	263.4	229.8	208.4	208.4	211.4
55°	1166.2	1100.5	512.5	342.4	311.3	378.0	336.8	309.2	299.1	342.4	354.1
57.5°	1415.8	1332.3	543.1	392.8	381.6	467.7	418.3	394.8	413.7	542.1	581.8
60°	1643.5	1505.5	567.0	440.7	441.7	539.0	502.3	500.8	529.8	693.9	744.3
62.5°	1775.0	1587.0	565.5	468.2	476.9	583.3	552.8	560.9	577.2	719.4	757.6
65°	1865.2	1625.7	553.8	480.4	491.6	599.1	560.9	547.2	536.5	636.8	673.5
67.5°	1803.0	1535.0	527.3	462.6	482.5	576.2	525.8	486.5	465.7	516.6	541.6
70°	1510.1	1280.3	466.7	416.2	434.6	485.5	437.1	398.4	376.5	404.0	415.7
72.5°	1143.8	974.1	420.8	389.2	381.1	401.5	355.6	312.3	299.1	316.9	319.4
75°	910.9	762.2	387.2	352.0	319.9	339.8	283.8	231.3	223.7	223.7	219.6
77.5°	683.2	565.0	330.1	274.1	235.9	268.5	211.4	161.0	150.8	148.8	143.2
80°	458.0	384.6	222.1	181.9	169.7	199.2	150.3	118.2	118.7	118.2	111.6
82.5°	319.9	297.0	180.4	158.4	145.2	156.9	136.0	113.6	112.6	113.6	106.5
85°	283.8	272.1	174.7	163.5	149.8	151.3	130.4	107.5	108.0	110.0	103.9
87.5°	272.6	259.3	175.3	157.9	146.2	140.1	118.2	99.3	102.4	104.4	99.3
90°	245.6	232.3	161.0	142.7	130.4	121.8	104.4	94.3	98.3	100.4	95.8
92.5°	213.0	199.2	134.0	125.8	122.8	122.8	109.5	100.4	102.9	103.9	99.9
95°	183.4	170.2	119.2	110.6	108.0	108.5	97.8	90.2	91.7	91.2	88.1
97.5°	148.3	140.1	103.9	98.3	95.8	94.8	87.6	82.0	85.1	87.1	84.6
100°	130.9	126.9	100.4	96.3	92.7	92.2	86.1	82.5	85.1	88.1	86.1
102.5°	122.3	119.2	95.8	90.2	87.6	86.6	82.5	78.5	81.0	84.1	82.5
105°	115.1	110.6	91.7	86.6	83.0	82.5	78.5	73.4	74.9	79.0	77.9
107.5°	109.0	106.0	91.2	85.6	81.0	81.0	76.4	72.3	72.9	74.4	74.4
110°	114.1	110.6	94.8	90.7	84.6	82.5	81.5	78.5	75.9	74.9	74.9



REPORT NUMBER: P856135  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	141.1	134.5	118.7	114.1	103.9	96.8	90.2	84.1	80.0	78.5	77.4
115°	166.6	159.0	140.1	128.4	114.6	103.9	94.8	88.1	82.0	80.0	82.0
117.5°	171.7	151.3	122.3	112.6	104.4	97.8	92.7	87.6	83.0	84.6	83.0
120°	170.2	145.2	123.3	137.0	123.3	108.0	95.8	95.8	94.3	86.6	88.1
122.5°	261.9	244.5	218.1	209.9	171.2	156.4	133.5	114.1	95.3	84.6	79.5
125°	358.7	341.9	301.1	270.0	231.3	190.5	146.2	112.6	88.1	77.9	79.5
127.5°	360.7	345.4	306.7	254.2	203.3	163.0	121.8	99.9	86.1	79.5	78.5
130°	281.2	266.5	233.3	193.1	161.0	134.5	109.5	90.2	77.9	72.9	71.3
132.5°	243.5	230.3	199.7	163.0	139.6	118.7	97.8	78.5	70.3	66.7	67.2
135°	204.8	189.0	160.0	140.1	125.3	106.5	87.6	71.8	67.8	66.7	66.2
137.5°	173.7	162.5	142.1	126.9	112.6	95.8	76.9	67.2	65.7	66.7	65.7
140°	147.7	138.6	127.4	114.1	96.8	81.0	68.8	64.2	66.7	67.2	66.7
142.5°	127.4	118.2	106.5	88.6	80.5	73.4	70.3	66.7	66.7	66.2	65.7
145°	106.5	94.3	88.6	91.2	86.1	79.0	73.4	66.2	63.7	63.7	64.2
147.5°	122.3	109.5	102.4	96.8	87.1	76.9	68.3	61.6	60.6	62.7	62.2
150°	105.5	93.7	88.6	81.0	74.9	67.2	61.6	59.1	59.6	62.2	62.2
152.5°	84.1	75.9	72.9	70.8	67.8	63.2	60.1	59.1	60.1	61.1	61.1
155°	79.0	74.4	70.8	69.3	65.7	62.2	59.6	59.1	60.1	61.1	62.2
157.5°	73.9	72.3	67.8	66.2	63.2	61.6	60.1	60.1	60.6	61.6	62.7
160°	70.3	69.8	65.7	65.2	63.2	62.2	62.2	62.7	63.2	63.2	63.2
162.5°	68.3	68.3	66.7	65.7	65.2	64.7	66.2	66.7	66.2	66.2	66.2
165°	68.8	69.3	67.8	66.7	66.2	67.2	69.8	69.8	68.8	68.3	67.8
167.5°	69.3	69.8	68.8	68.3	68.3	69.3	70.3	69.8	69.3	68.8	68.3
170°	68.8	69.3	69.3	69.8	69.8	69.8	70.8	70.8	69.8	69.3	69.3
172.5°	69.8	70.3	70.8	71.3	71.8	71.3	71.8	71.8	71.8	71.8	72.3
175°	72.9	72.9	73.4	73.4	72.9	73.4	73.4	73.4	73.9	74.9	74.9
177.5°	74.4	74.4	73.9	73.9	73.4	73.9	73.9	73.9	73.9	74.4	73.9
180°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4

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.

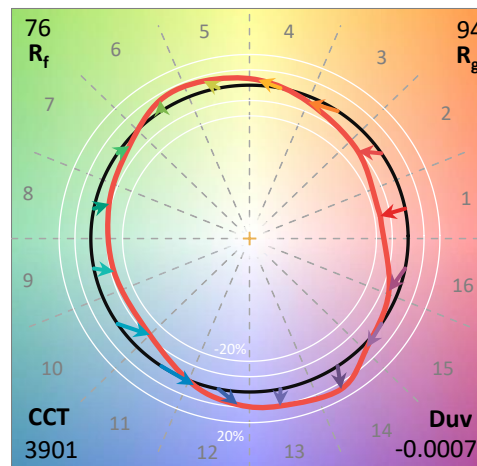
**Test Information**

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**

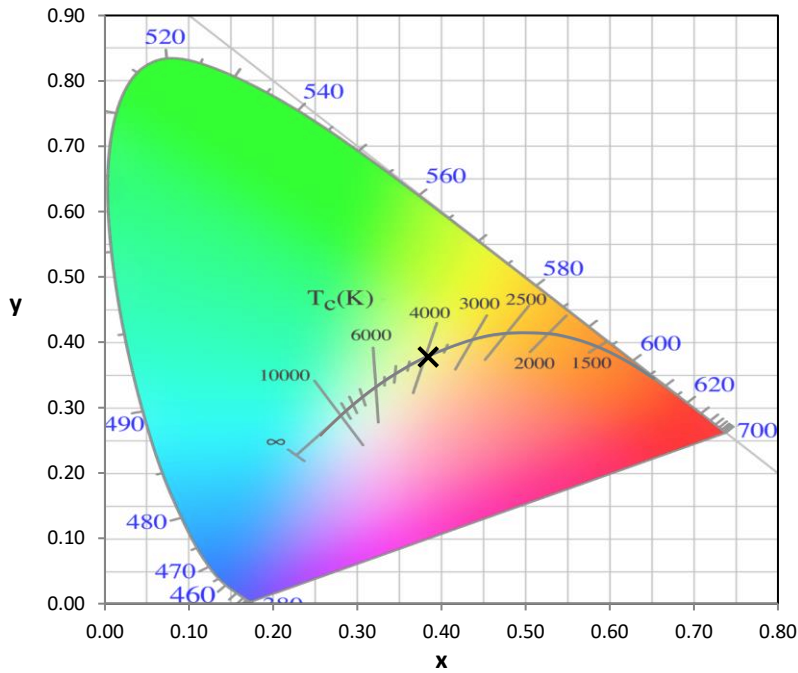
Stabilization Time: 0.818109M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

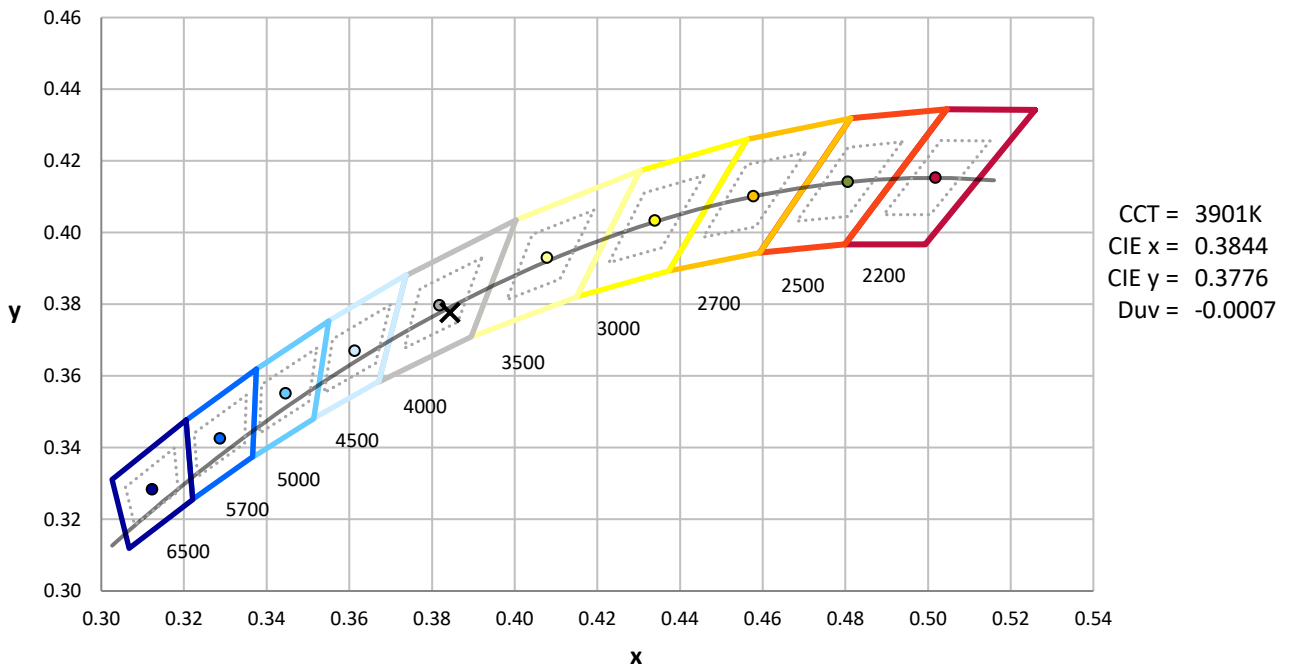
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



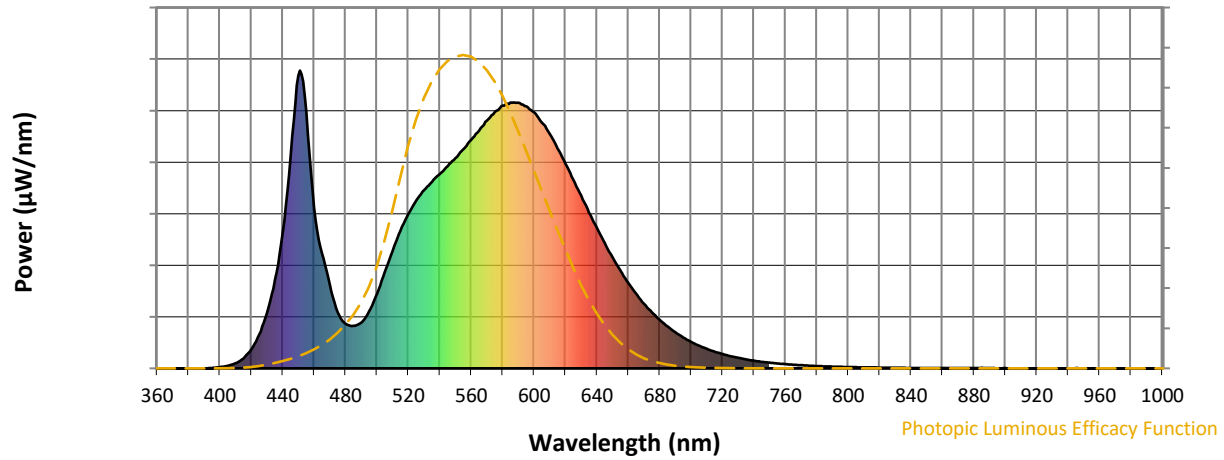
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

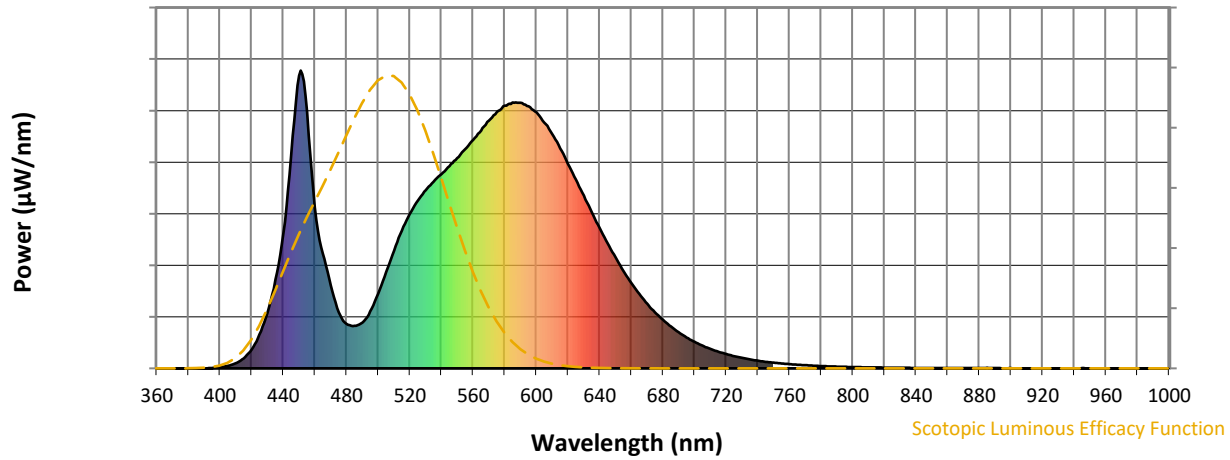


**Photopic Lumens: NR**

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	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			

REPORT NUMBER: SP1-2406-133-1

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

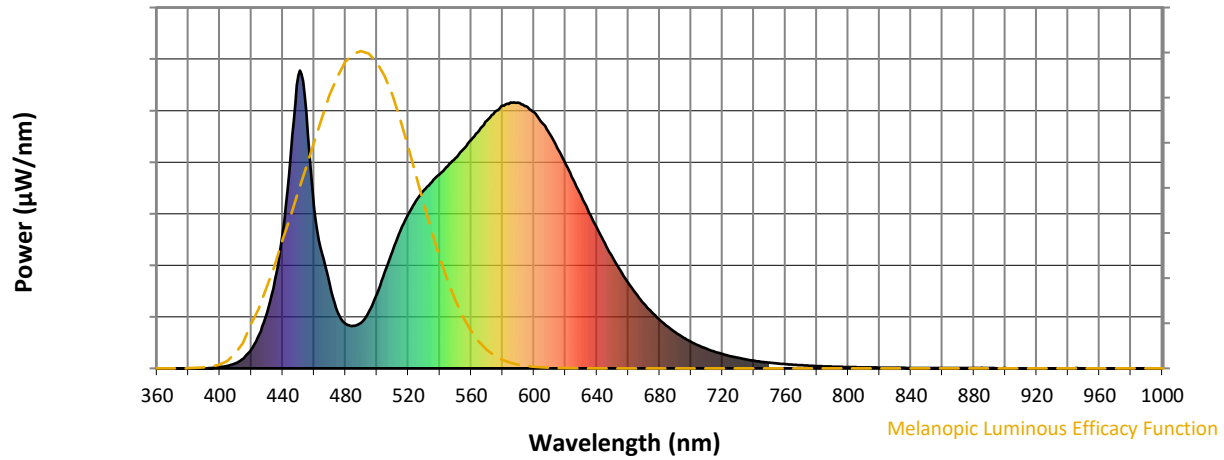
**S/P: 1.53**

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	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

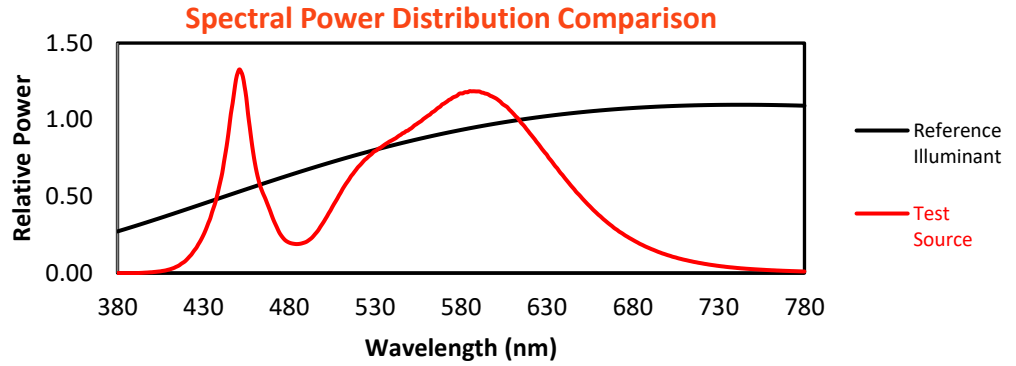
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	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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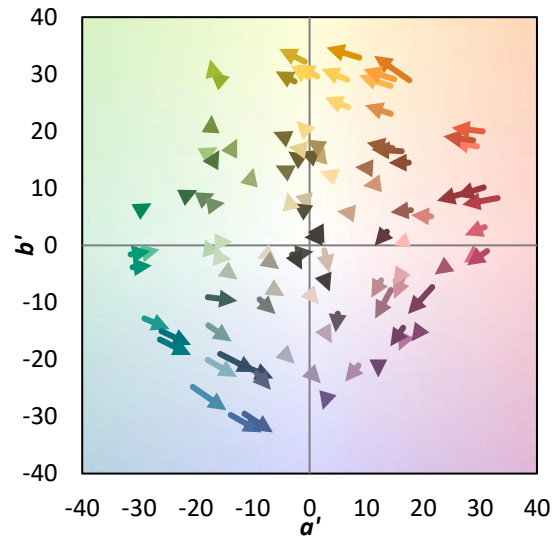
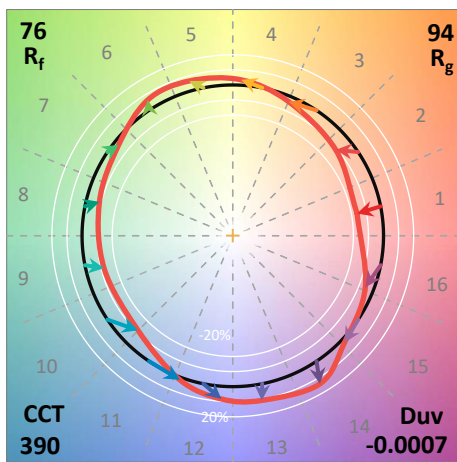
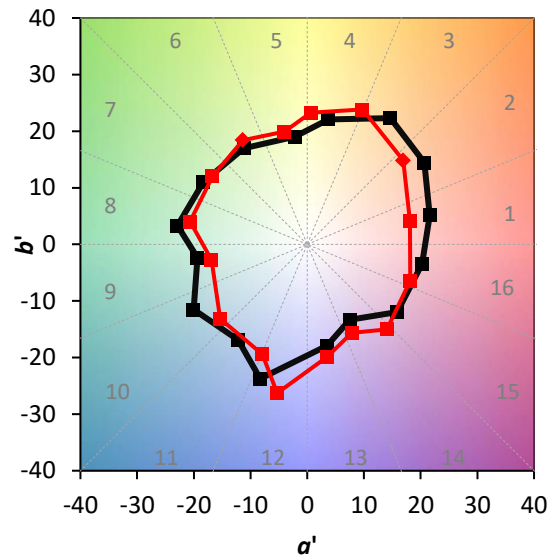
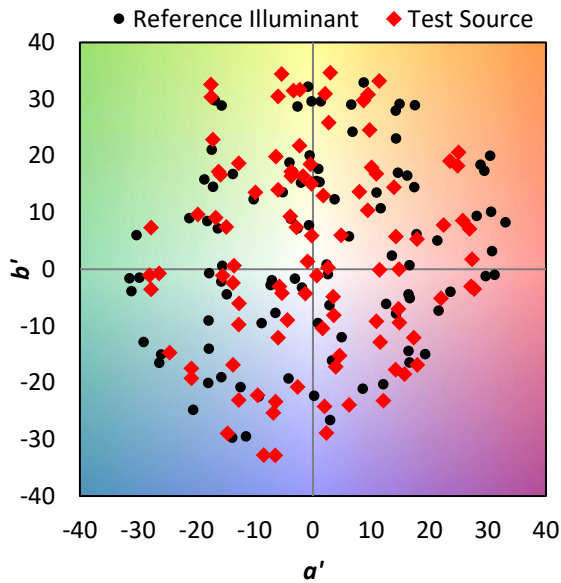
TM-30-18

**Summary**

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



**Color Vector Graphics**

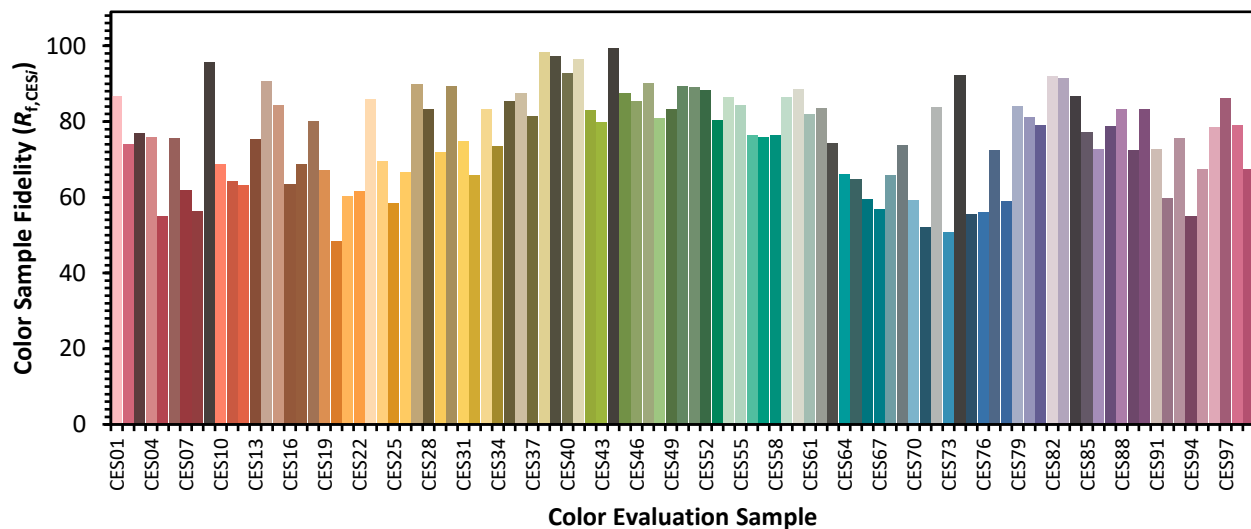


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

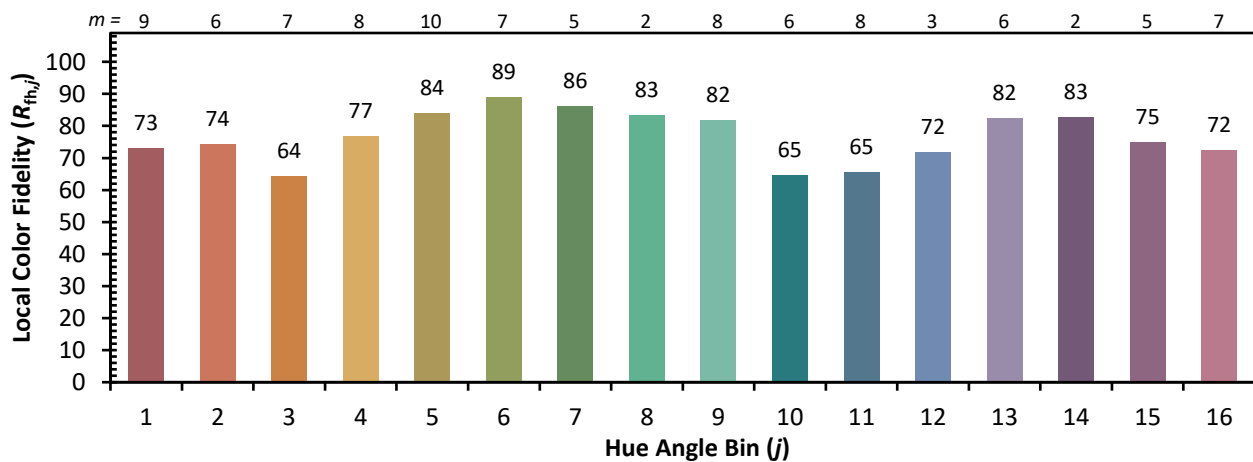
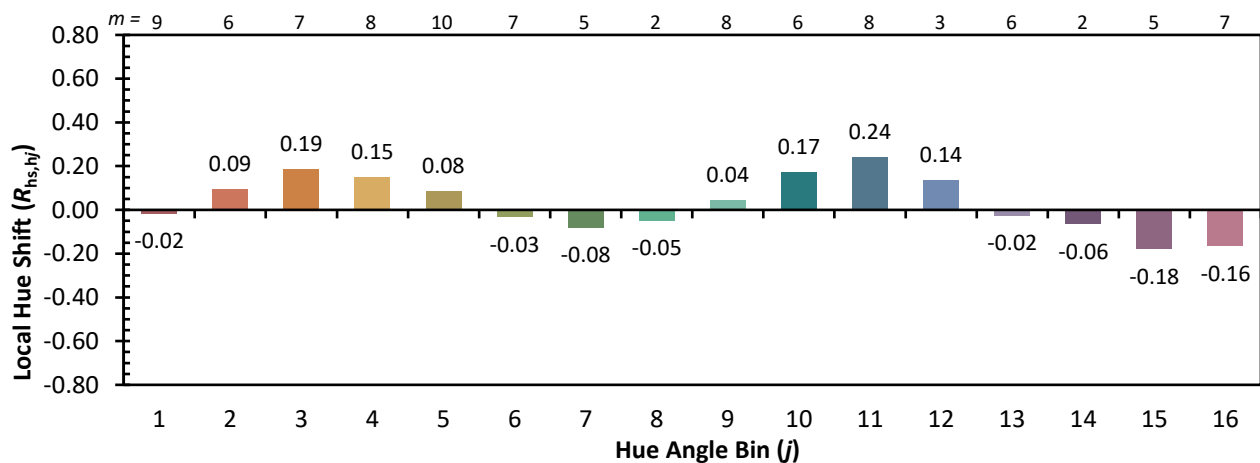
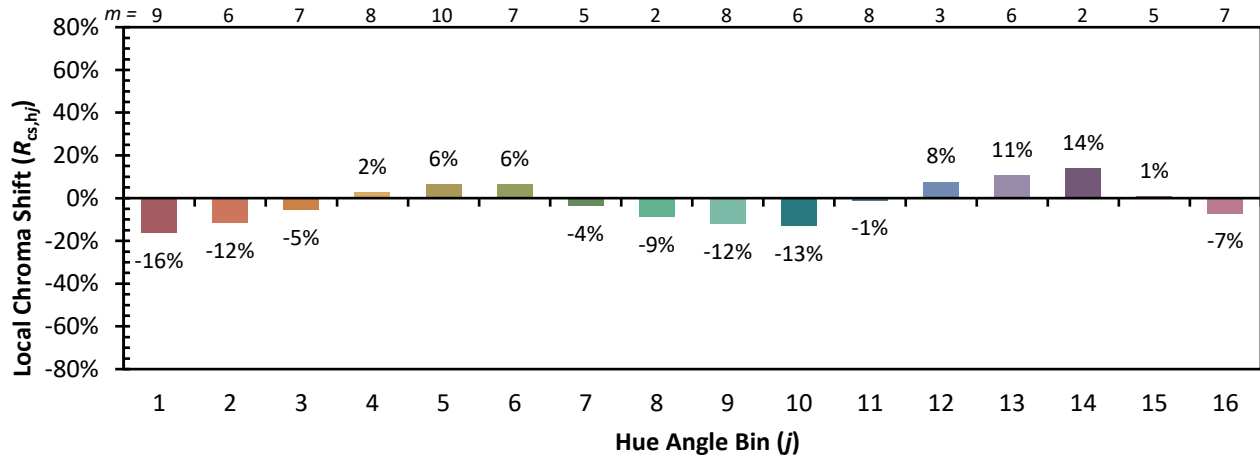
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82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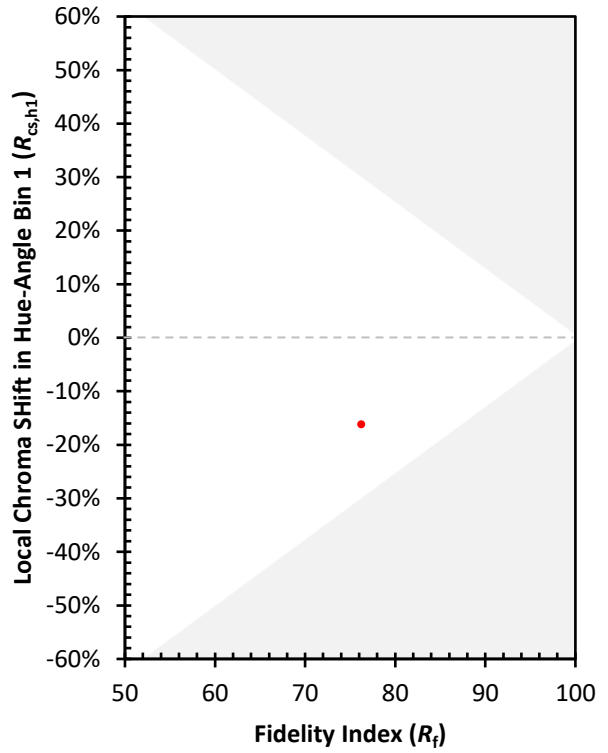
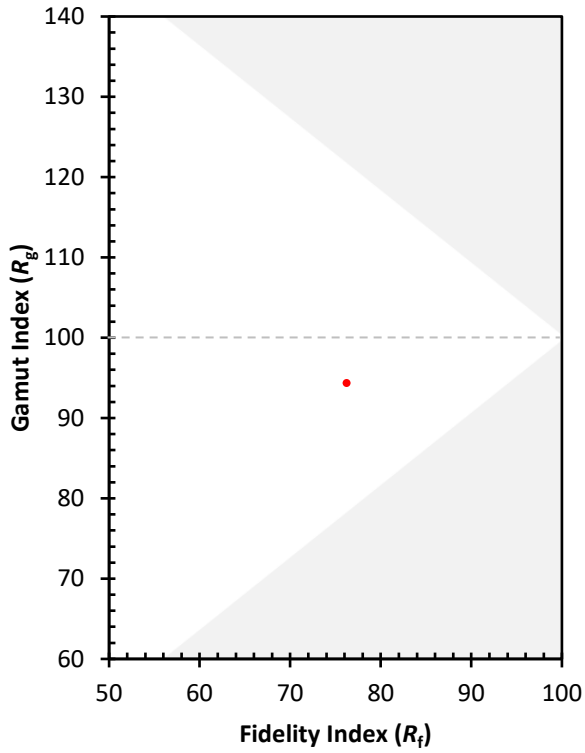
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)