

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: P856132

Luminaire Tested: **FFX-CLB-60-740-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856132  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-60-740-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

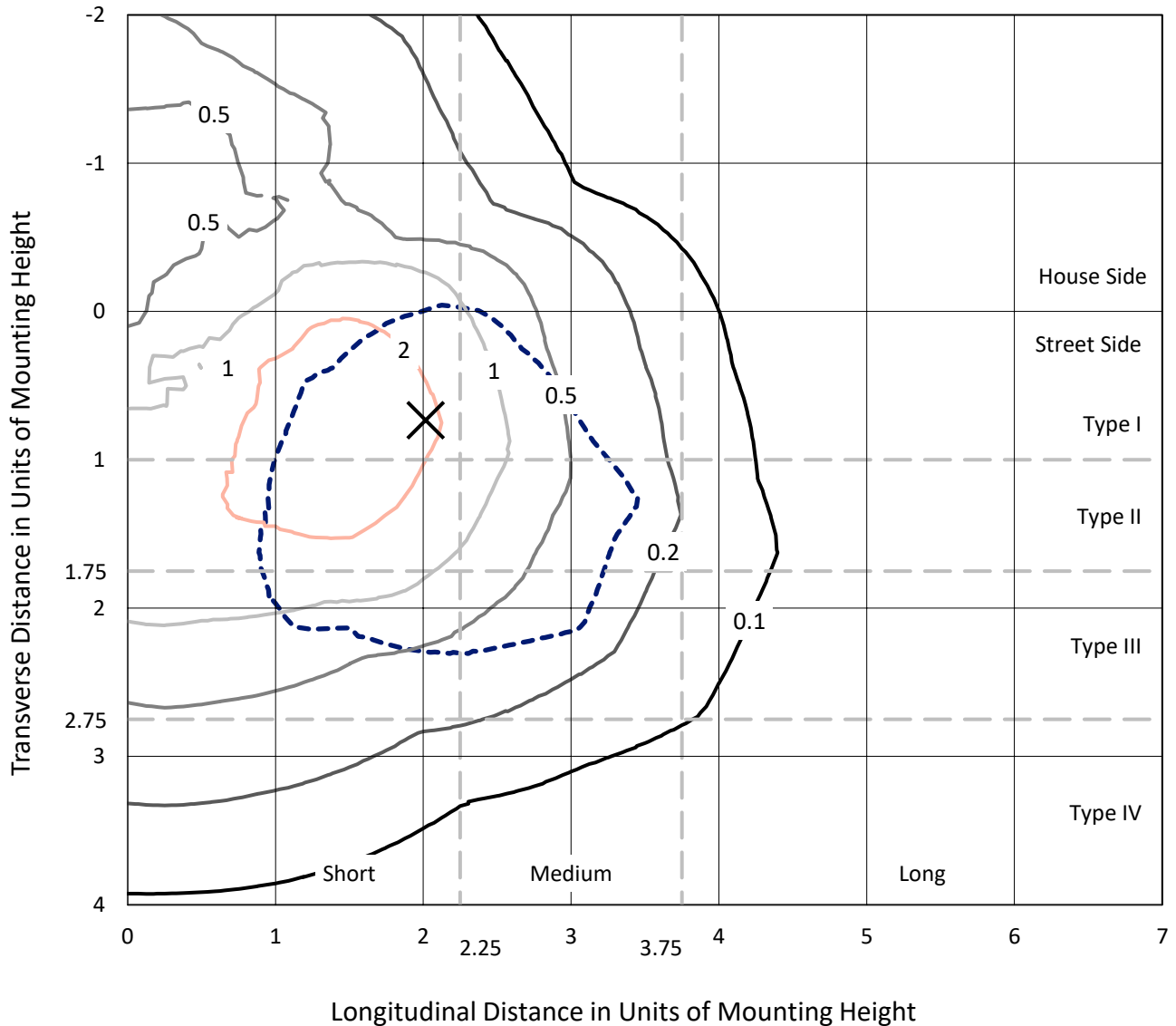
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9508.9 lumens  
Efficiency: N/A  
Efficacy: 159.0 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): 59.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 8.9%  
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

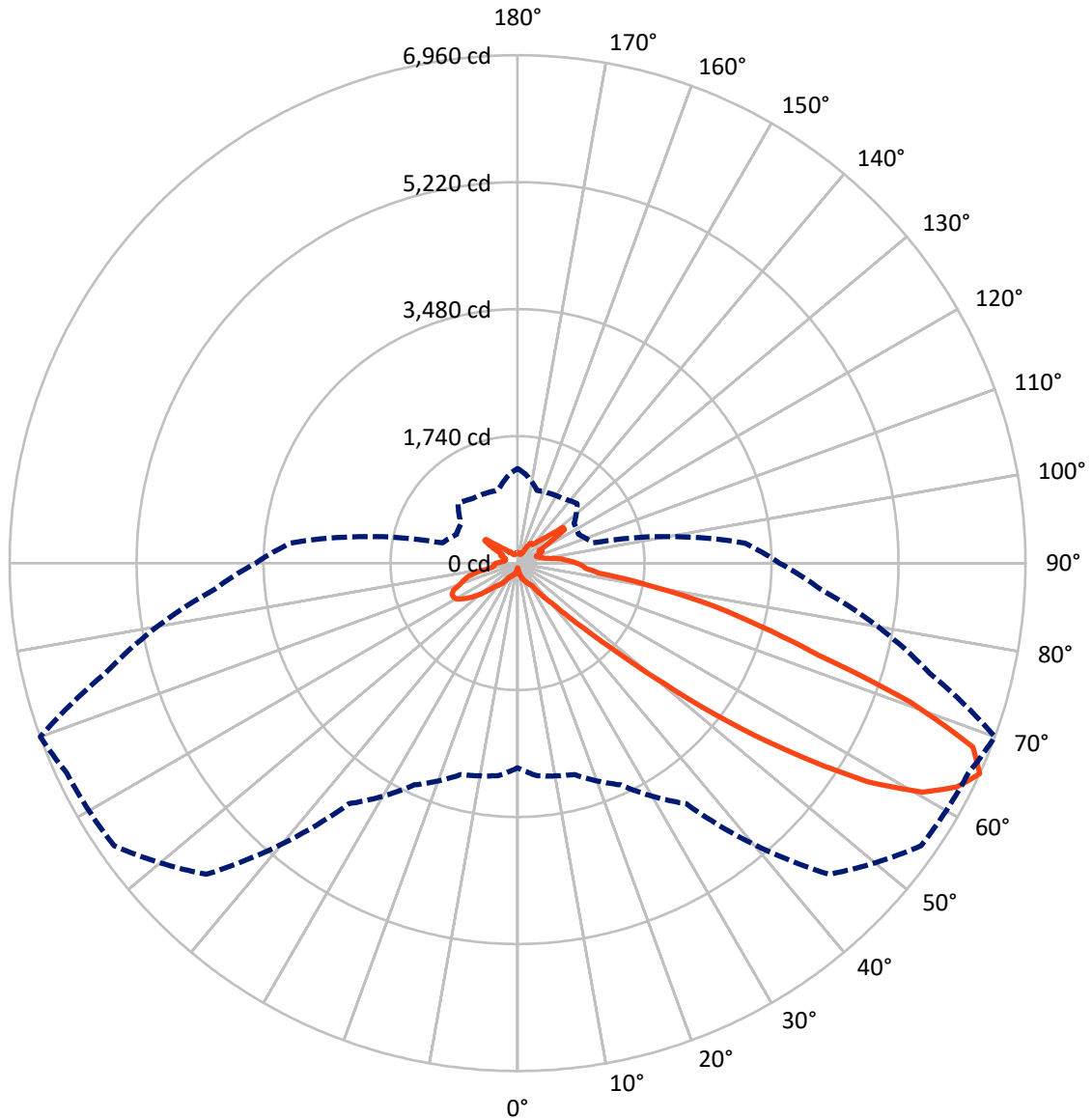
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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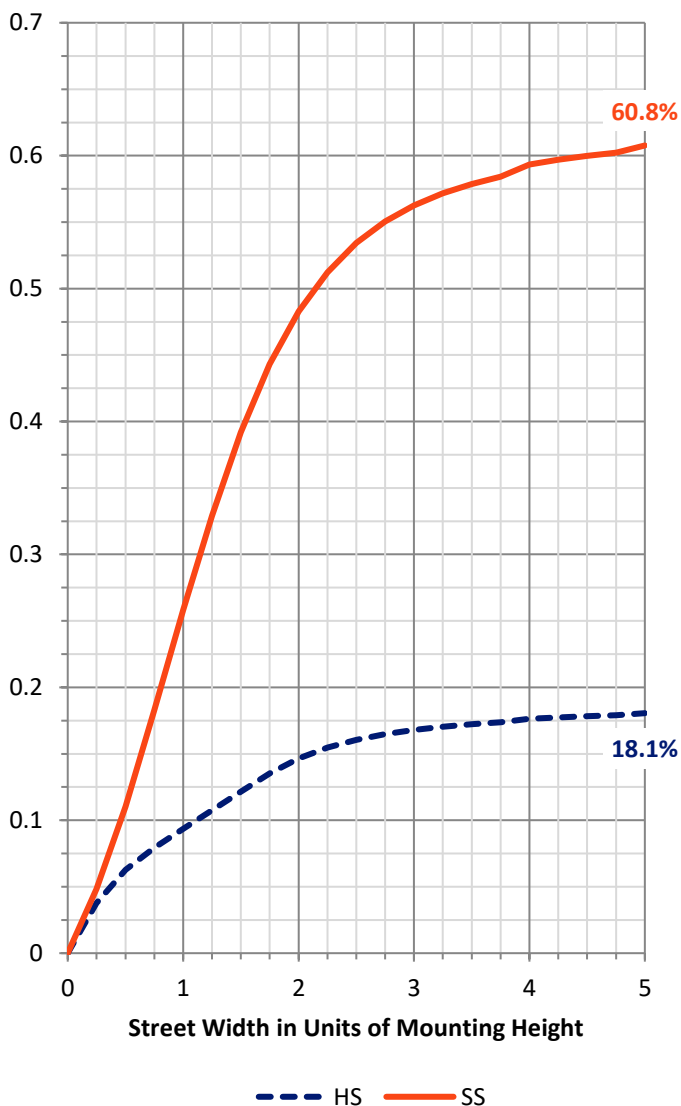
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1791.2	639.0	2430.2
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	5973.0	1105.7	7078.7
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	7764.1	1744.7	9508.9
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.2	0.1
10°-20°	49.8	0.5
20°-30°	105.7	1.1
30°-40°	215.3	2.3
40°-50°	547.6	5.8
50°-60°	1759.8	18.5
60°-70°	2871.9	30.2
70°-80°	1635.0	17.2
80°-90°	568.9	6.0
90°-100°	354.0	3.7
100°-110°	225.5	2.4
110°-120°	248.0	2.6
120°-130°	419.5	4.4
130°-140°	247.3	2.6
140°-150°	133.1	1.4
150°-160°	67.3	0.7
160°-170°	36.8	0.4
170°-180°	13.3	0.1
0°-90°	7764.1	81.7
0°-180°	9508.9	100.0

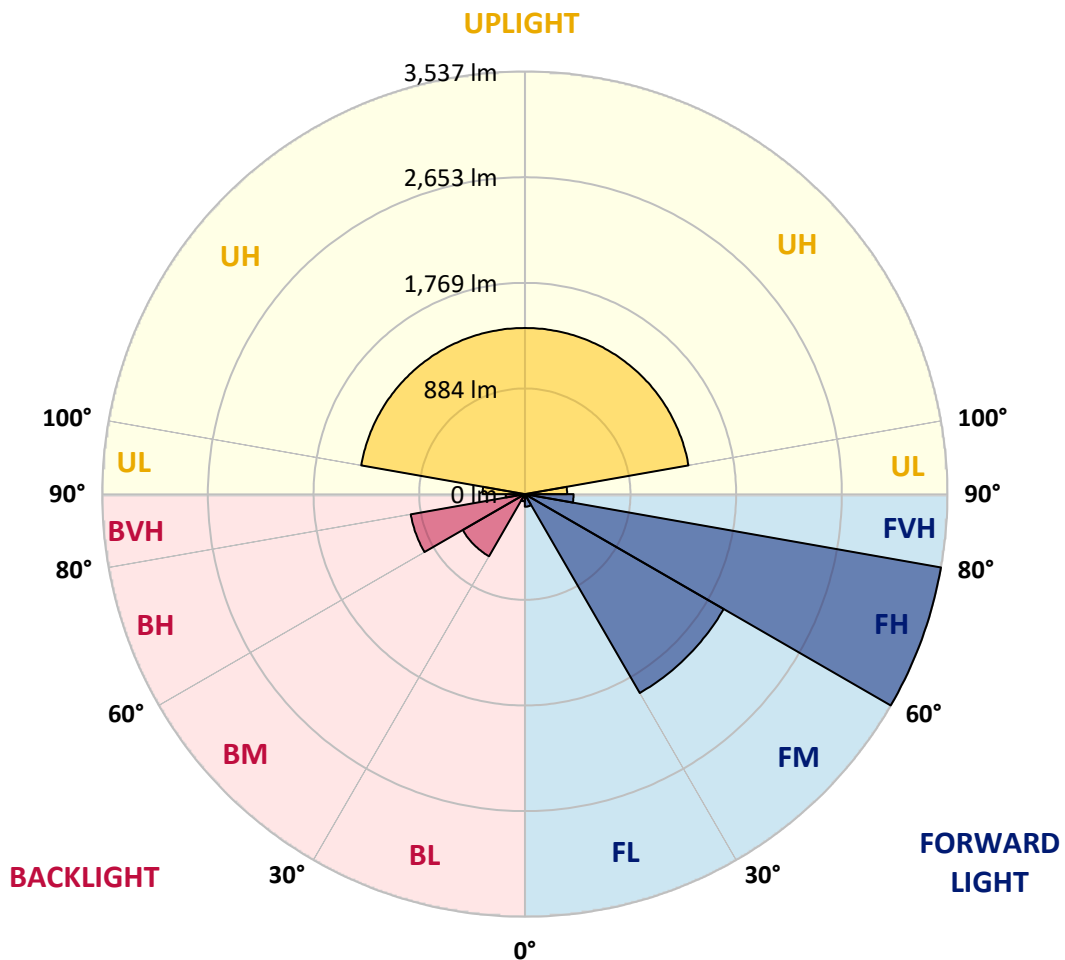


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.5	1.1			
FM (30°-60°)	1922.3	20.2			
FH (60°-80°)	3537.2	37.2			G2/5000
FVH (80°-90°)	407.9	4.3			G3/500
BL (0°-30°)	60.2	0.6	B0/110		
BM (30°-60°)	600.3	6.3	B1/1000		
BH (60°-80°)	969.7	10.2	B2/1000		G2/1000
BVH (80°-90°)	161.0	1.7			G2/225
UL (90°-100°)	354.0	3.7		U3/500	
UH (100°-180°)	1390.7	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°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	75.5	75.5	77.4	77.4	77.4	75.5	74.5	72.5	72.5	72.5	71.5
5°	98.0	97.0	98.0	100.9	101.9	99.0	97.0	94.1	94.1	93.1	93.1
7.5°	132.3	131.3	129.3	126.4	127.4	130.3	134.2	126.4	124.4	119.5	117.6
10°	165.6	163.6	165.6	160.7	155.8	148.9	152.9	150.9	147.0	142.1	138.2
12.5°	201.9	202.8	206.8	202.8	195.0	184.2	182.3	177.4	173.4	172.5	166.6
15°	239.1	240.1	244.0	243.0	235.2	220.5	214.6	209.7	207.7	201.9	189.1
17.5°	258.7	259.7	260.6	261.6	256.7	245.0	236.2	227.3	224.4	222.4	206.8
20°	268.5	266.5	268.5	272.4	276.3	266.5	257.7	252.8	249.9	243.0	222.4
22.5°	284.2	282.2	281.2	284.2	295.9	289.1	280.2	275.3	272.4	263.6	232.2
25°	300.8	298.9	301.8	299.8	314.5	311.6	302.8	297.9	294.0	283.2	246.9
27.5°	319.4	317.5	320.4	318.5	330.2	332.2	326.3	322.4	316.5	300.8	257.7
30°	335.1	333.2	336.1	335.1	346.9	353.7	350.8	349.8	341.0	322.4	276.3
32.5°	347.9	346.9	353.7	356.7	359.6	375.3	373.3	382.2	372.4	349.8	303.8
35°	377.3	380.2	398.8	418.4	421.4	452.7	456.6	489.0	479.2	449.8	393.9
37.5°	583.0	572.3	553.6	535.0	528.2	588.9	597.7	630.1	605.6	550.7	460.5
40°	621.2	603.6	582.1	567.4	569.3	678.1	659.5	781.9	712.4	630.1	562.5
42.5°	589.9	584.0	659.5	694.7	669.3	828.0	796.6	1029.9	950.5	748.6	679.1
45°	739.8	728.1	754.5	789.8	797.6	1089.6	1068.1	1312.1	1279.7	935.8	871.1
47.5°	846.6	835.8	871.1	990.7	1093.6	1409.1	1526.7	1878.4	1764.8	1329.7	1179.8
50°	1167.0	1165.1	1273.9	1415.9	1596.2	2049.9	2362.5	2757.4	2574.2	1882.4	1617.8
52.5°	1483.5	1487.5	1620.7	1872.6	2059.7	2861.3	3305.2	3581.5	3606.0	2454.6	2097.0
55°	1722.6	1747.1	1907.8	2330.2	2613.4	3583.4	4159.6	4374.2	4619.2	3316.9	2595.7
57.5°	2189.1	2226.3	2379.2	2792.7	3188.6	4483.0	5261.0	5284.5	5650.0	4273.3	3130.7
60°	2596.7	2683.9	2737.8	3113.1	3653.0	5342.3	6079.2	6032.2	6375.1	5066.0	3673.6
62.5°	2723.1	2823.1	2874.0	3273.8	4020.5	5824.4	6461.4	6520.2	6756.3	5622.6	4005.8
65°	2805.4	2923.0	2999.4	3353.2	4024.4	6030.2	6751.4	6814.1	6960.1	5855.8	4171.4
67.5°	2763.3	2913.2	3011.2	3325.7	3812.7	5871.5	6693.6	6573.1	6727.9	5660.8	3986.2
70°	2412.5	2569.3	2668.2	2902.4	3187.6	4936.7	5770.6	5568.7	5704.9	4725.0	3277.7
72.5°	1965.7	2043.1	2103.8	2232.2	2402.7	3641.3	4385.0	4217.4	4298.8	3555.0	2456.6
75°	1614.9	1638.4	1713.8	1787.3	1815.7	2663.3	3473.7	3320.8	3415.9	2706.4	1954.9
77.5°	1172.9	1186.6	1294.4	1306.2	1299.3	1827.5	2737.8	2603.6	2633.9	2011.7	1459.1
80°	681.0	707.5	848.6	841.7	830.0	1125.9	1927.4	1873.5	1779.5	1366.0	1010.3
82.5°	480.1	506.6	571.3	586.0	578.1	808.4	1251.3	1216.0	1114.1	950.5	698.7
85°	505.6	508.6	511.5	518.4	505.6	721.2	958.3	940.7	941.7	785.9	576.2
87.5°	498.8	510.5	515.4	518.4	505.6	684.9	890.7	868.2	879.0	746.7	559.5
90°	438.0	459.6	461.5	466.4	459.6	611.4	799.6	778.0	791.7	673.2	509.5
92.5°	357.7	369.4	383.1	401.8	393.9	523.3	680.0	664.4	681.0	583.0	447.8
95°	339.0	351.8	360.6	373.3	361.6	477.2	614.4	583.0	596.8	510.5	386.1
97.5°	280.2	291.0	298.9	303.8	294.9	376.3	471.3	449.8	448.8	394.9	308.7
100°	239.1	246.0	252.8	257.7	249.9	311.6	373.3	365.5	367.5	326.3	265.5
102.5°	227.3	231.3	242.0	243.0	234.2	284.2	336.1	333.2	337.1	301.8	248.9
105°	222.4	225.4	234.2	231.3	223.4	265.5	309.6	311.6	311.6	281.2	233.2
107.5°	207.7	212.6	222.4	217.5	213.6	245.0	285.1	278.3	280.2	261.6	221.5
110°	205.8	209.7	219.5	215.6	212.6	239.1	274.4	272.4	275.3	258.7	227.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	255.8	251.8	259.7	251.8	256.7	279.3	316.5	312.6	321.4	315.5	284.2
115°	315.5	317.5	325.3	309.6	314.5	337.1	357.7	364.5	372.4	363.5	331.2
117.5°	292.0	308.7	298.9	296.9	293.0	310.6	307.7	325.3	333.2	326.3	313.6
120°	312.6	333.2	304.7	290.0	284.2	328.3	349.8	348.8	343.0	329.2	302.8
122.5°	467.4	470.3	472.3	516.4	500.7	543.8	556.6	539.9	539.9	557.6	503.7
125°	729.0	732.0	730.0	749.6	738.8	780.0	796.6	795.7	785.9	777.1	724.1
127.5°	736.9	736.9	730.0	719.2	729.0	769.2	770.2	807.4	794.7	771.2	722.2
130°	514.4	518.4	542.9	550.7	564.4	573.2	563.4	595.8	601.7	597.7	564.4
132.5°	426.3	433.1	459.6	469.4	478.2	479.2	475.2	500.7	506.6	506.6	491.9
135°	368.4	376.3	379.2	374.3	387.1	396.9	404.7	425.3	423.3	419.4	406.7
137.5°	321.4	324.3	315.5	304.7	311.6	340.0	355.7	377.3	376.3	369.4	347.9
140°	271.4	272.4	267.5	262.6	269.5	294.0	308.7	332.2	329.2	324.3	298.9
142.5°	205.8	208.7	221.5	231.3	247.9	298.9	291.0	311.6	326.3	338.1	279.3
145°	216.6	212.6	210.7	221.5	243.0	316.5	294.0	320.4	327.3	335.1	267.5
147.5°	249.9	251.8	248.9	242.0	271.4	294.9	282.2	305.7	309.6	307.7	280.2
150°	196.0	198.9	199.9	197.0	233.2	232.2	219.5	237.1	239.1	239.1	220.5
152.5°	159.7	160.7	158.7	156.8	180.3	176.4	170.5	176.4	175.4	174.4	170.5
155°	151.9	151.9	149.9	150.9	166.6	162.7	158.7	162.7	160.7	157.8	153.8
157.5°	140.1	141.1	141.1	144.0	153.8	147.0	143.1	145.0	143.1	141.1	141.1
160°	132.3	132.3	133.3	137.2	143.1	136.2	133.3	134.2	133.3	131.3	132.3
162.5°	129.3	129.3	130.3	132.3	133.3	129.3	126.4	126.4	126.4	126.4	129.3
165°	127.4	127.4	127.4	128.4	128.4	125.4	124.4	125.4	126.4	127.4	131.3
167.5°	131.3	131.3	131.3	131.3	130.3	128.4	127.4	128.4	129.3	130.3	133.3
170°	137.2	136.2	136.2	135.2	134.2	132.3	131.3	130.3	130.3	131.3	132.3
172.5°	141.1	141.1	140.1	140.1	139.1	137.2	135.2	134.2	134.2	134.2	134.2
175°	146.0	146.0	146.0	146.0	145.0	143.1	142.1	140.1	140.1	140.1	140.1
177.5°	151.9	151.9	151.9	151.9	149.9	148.0	146.0	144.0	144.0	144.0	143.1
180°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.5°	70.6	69.6	66.6	65.7	64.7	62.7	60.8	59.8	58.8	58.8	59.8
5°	94.1	93.1	93.1	90.1	87.2	82.3	80.4	80.4	81.3	82.3	84.3
7.5°	118.6	120.5	122.5	117.6	108.8	97.0	90.1	92.1	97.0	100.9	100.9
10°	137.2	137.2	144.0	138.2	123.5	108.8	99.0	97.0	98.0	99.0	99.9
12.5°	163.6	163.6	159.7	144.0	129.3	114.6	106.8	104.8	104.8	100.9	99.9
15°	183.2	177.4	163.6	148.9	136.2	121.5	112.7	109.7	106.8	103.9	102.9
17.5°	195.0	184.2	165.6	151.9	139.1	127.4	118.6	112.7	109.7	110.7	110.7
20°	208.7	197.0	180.3	165.6	149.9	134.2	123.5	114.6	111.7	112.7	111.7
22.5°	219.5	207.7	191.1	174.4	157.8	141.1	128.4	117.6	113.7	114.6	114.6
25°	232.2	222.4	204.8	185.2	164.6	148.9	136.2	123.5	117.6	116.6	116.6
27.5°	245.0	238.1	219.5	196.0	174.4	155.8	143.1	128.4	121.5	118.6	118.6
30°	261.6	253.8	235.2	206.8	183.2	165.6	151.9	136.2	126.4	121.5	120.5
32.5°	288.1	279.3	256.7	226.4	193.0	175.4	160.7	143.1	130.3	124.4	123.5
35°	374.3	360.6	325.3	290.0	236.2	196.0	171.5	148.9	134.2	126.4	125.4
37.5°	428.2	394.9	347.9	324.3	265.5	240.1	206.8	170.5	140.1	130.3	128.4
40°	515.4	469.4	410.6	364.5	258.7	262.6	242.0	212.6	166.6	137.2	134.2
42.5°	588.9	531.1	441.9	382.2	259.7	274.4	258.7	234.2	199.9	162.7	156.8
45°	726.1	651.6	513.5	410.6	266.5	292.0	272.4	246.9	216.6	191.1	188.1
47.5°	980.9	879.9	641.8	457.6	311.6	339.0	303.8	270.4	243.0	213.6	208.7
50°	1342.4	1221.9	789.8	494.8	389.0	446.8	383.1	327.3	295.9	274.4	271.4
52.5°	1758.9	1632.5	898.6	563.4	483.1	580.1	506.6	441.9	400.8	400.8	406.7
55°	2243.0	2116.6	985.8	658.5	598.7	727.1	647.7	594.8	575.2	658.5	681.0
57.5°	2723.1	2562.4	1044.6	755.5	733.9	899.5	804.5	759.4	795.7	1042.6	1119.0
60°	3161.1	2895.6	1090.6	847.6	849.6	1036.7	966.2	963.2	1019.1	1334.6	1431.6
62.5°	3413.9	3052.3	1087.7	900.5	917.2	1122.0	1063.2	1078.9	1110.2	1383.6	1457.1
65°	3587.4	3126.8	1065.1	924.0	945.6	1152.3	1078.9	1052.4	1031.8	1224.9	1295.4
67.5°	3467.8	2952.4	1014.2	889.7	928.0	1108.3	1011.2	935.8	895.6	993.6	1041.6
70°	2904.4	2462.5	897.6	800.6	835.8	933.8	840.7	766.3	724.1	777.1	799.6
72.5°	2199.8	1873.5	809.4	748.6	733.0	772.2	684.0	600.7	575.2	609.5	614.4
75°	1752.0	1465.9	744.7	677.1	615.4	653.6	545.8	444.9	430.2	430.2	422.3
77.5°	1314.0	1086.7	635.0	527.2	453.7	516.4	406.7	309.6	290.0	286.1	275.3
80°	880.9	739.8	427.2	349.8	326.3	383.1	289.1	227.3	228.3	227.3	214.6
82.5°	615.4	571.3	346.9	304.7	279.3	301.8	261.6	218.5	216.6	218.5	204.8
85°	545.8	523.3	336.1	314.5	288.1	291.0	250.9	206.8	207.7	211.7	199.9
87.5°	524.2	498.8	337.1	303.8	281.2	269.5	227.3	191.1	197.0	200.9	191.1
90°	472.3	446.8	309.6	274.4	250.9	234.2	200.9	181.3	189.1	193.0	184.2
92.5°	409.6	383.1	257.7	242.0	236.2	236.2	210.7	193.0	197.9	199.9	192.1
95°	352.8	327.3	229.3	212.6	207.7	208.7	188.1	173.4	176.4	175.4	169.5
97.5°	285.1	269.5	199.9	189.1	184.2	182.3	168.5	157.8	163.6	167.6	162.7
100°	251.8	244.0	193.0	185.2	178.3	177.4	165.6	158.7	163.6	169.5	165.6
102.5°	235.2	229.3	184.2	173.4	168.5	166.6	158.7	150.9	155.8	161.7	158.7
105°	221.5	212.6	176.4	166.6	159.7	158.7	150.9	141.1	144.0	151.9	149.9
107.5°	209.7	203.8	175.4	164.6	155.8	155.8	147.0	139.1	140.1	143.1	143.1
110°	219.5	212.6	182.3	174.4	162.7	158.7	156.8	150.9	146.0	144.0	144.0



REPORT NUMBER: P856132  
 CATALOG NUMBER: FFX-CLB-60-740-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	271.4	258.7	228.3	219.5	199.9	186.2	173.4	161.7	153.8	150.9	148.9
115°	320.4	305.7	269.5	246.9	220.5	199.9	182.3	169.5	157.8	153.8	157.8
117.5°	330.2	291.0	235.2	216.6	200.9	188.1	178.3	168.5	159.7	162.7	159.7
120°	327.3	279.3	237.1	263.6	237.1	207.7	184.2	184.2	181.3	166.6	169.5
122.5°	503.7	470.3	419.4	403.7	329.2	300.8	256.7	219.5	183.2	162.7	152.9
125°	689.8	657.5	579.1	519.3	444.9	366.5	281.2	216.6	169.5	149.9	152.9
127.5°	693.8	664.4	589.9	489.0	391.0	313.6	234.2	192.1	165.6	152.9	150.9
130°	540.9	512.5	448.8	371.4	309.6	258.7	210.7	173.4	149.9	140.1	137.2
132.5°	468.4	442.9	384.1	313.6	268.5	228.3	188.1	150.9	135.2	128.4	129.3
135°	393.9	363.5	307.7	269.5	241.1	204.8	168.5	138.2	130.3	128.4	127.4
137.5°	334.1	312.6	273.4	244.0	216.6	184.2	148.0	129.3	126.4	128.4	126.4
140°	284.2	266.5	245.0	219.5	186.2	155.8	132.3	123.5	128.4	129.3	128.4
142.5°	245.0	227.3	204.8	170.5	154.8	141.1	135.2	128.4	128.4	127.4	126.4
145°	204.8	181.3	170.5	175.4	165.6	151.9	141.1	127.4	122.5	122.5	123.5
147.5°	235.2	210.7	197.0	186.2	167.6	148.0	131.3	118.6	116.6	120.5	119.5
150°	202.8	180.3	170.5	155.8	144.0	129.3	118.6	113.7	114.6	119.5	119.5
152.5°	161.7	146.0	140.1	136.2	130.3	121.5	115.6	113.7	115.6	117.6	117.6
155°	151.9	143.1	136.2	133.3	126.4	119.5	114.6	113.7	115.6	117.6	119.5
157.5°	142.1	139.1	130.3	127.4	121.5	118.6	115.6	115.6	116.6	118.6	120.5
160°	135.2	134.2	126.4	125.4	121.5	119.5	119.5	120.5	121.5	121.5	121.5
162.5°	131.3	131.3	128.4	126.4	125.4	124.4	127.4	128.4	127.4	127.4	127.4
165°	132.3	133.3	130.3	128.4	127.4	129.3	134.2	134.2	132.3	131.3	130.3
167.5°	133.3	134.2	132.3	131.3	131.3	133.3	135.2	134.2	133.3	132.3	131.3
170°	132.3	133.3	133.3	134.2	134.2	134.2	136.2	136.2	134.2	133.3	133.3
172.5°	134.2	135.2	136.2	137.2	138.2	137.2	138.2	138.2	138.2	138.2	139.1
175°	140.1	140.1	141.1	141.1	140.1	141.1	141.1	141.1	142.1	144.0	144.0
177.5°	143.1	143.1	142.1	142.1	141.1	142.1	142.1	142.1	142.1	143.1	142.1
180°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0

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.

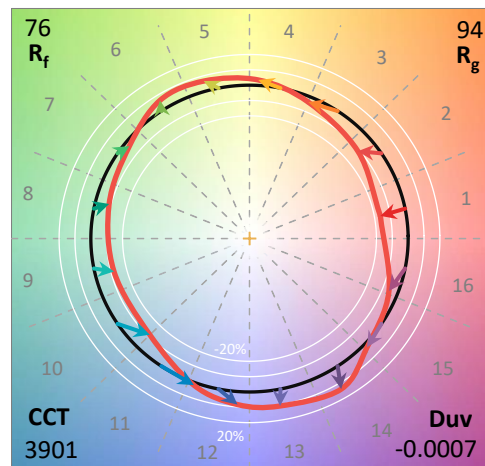
**Test Information**

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**

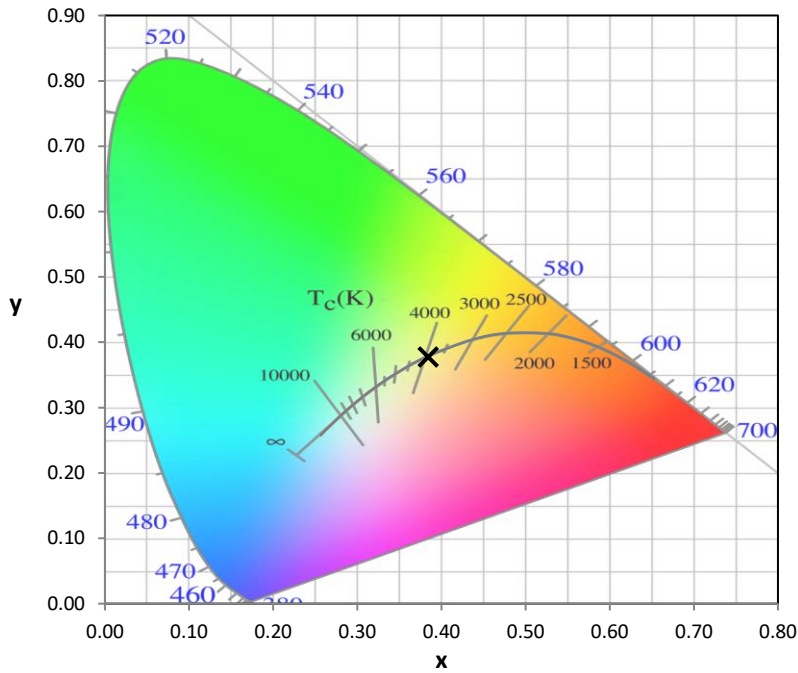
Stabilization Time: 0.818109M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

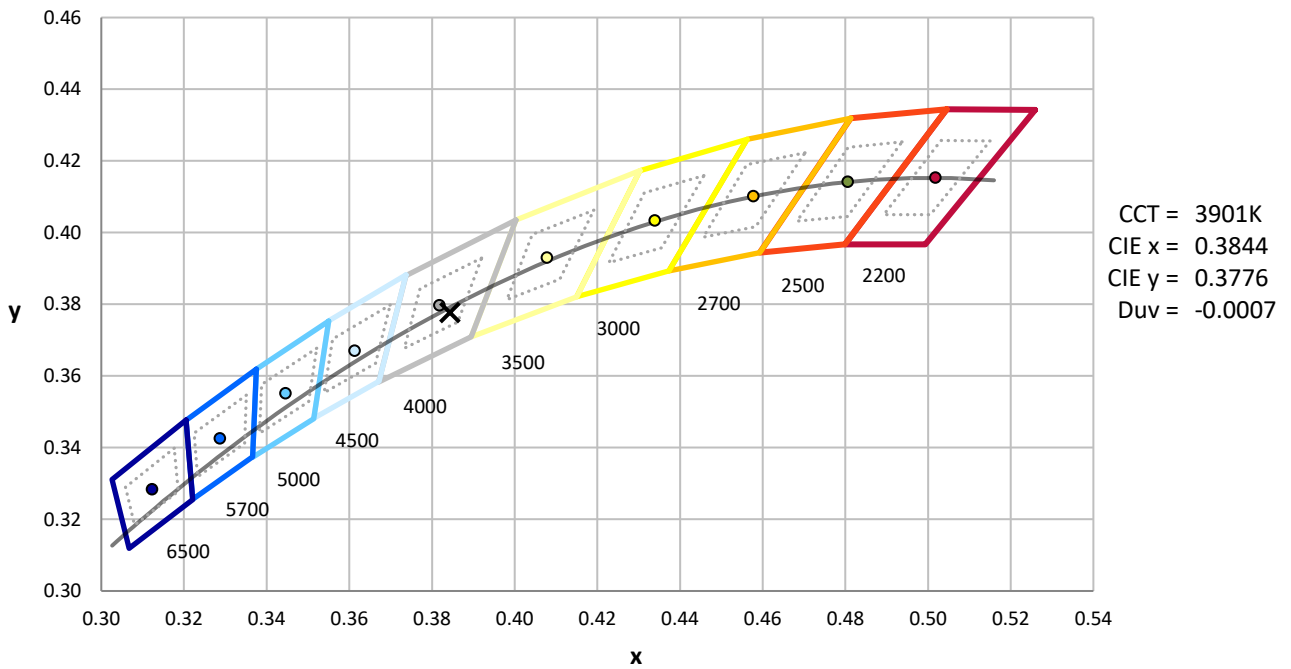
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



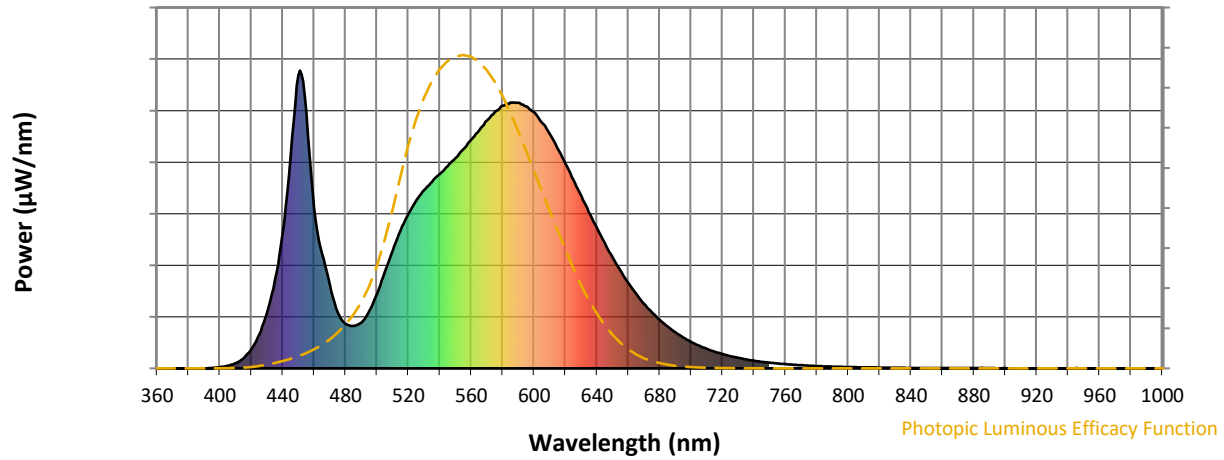
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-1

**Photopic Flux vs. Wavelength**

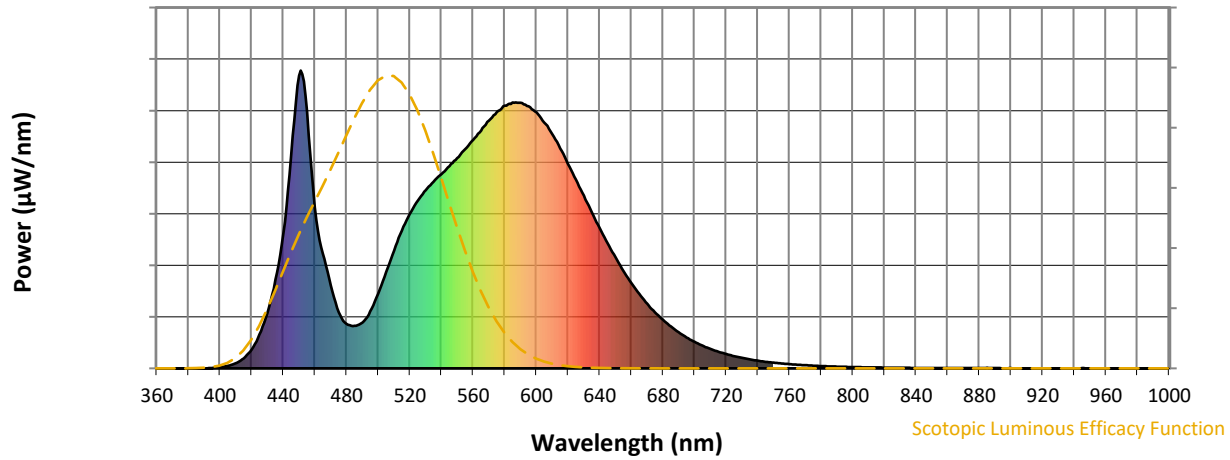


**Photopic Lumens: NR**

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

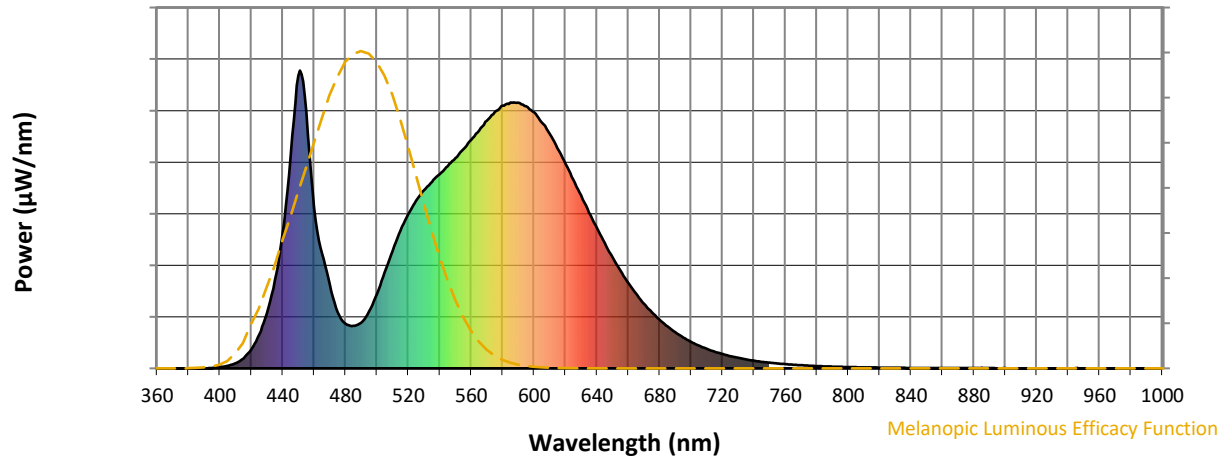
S/P: 1.53

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

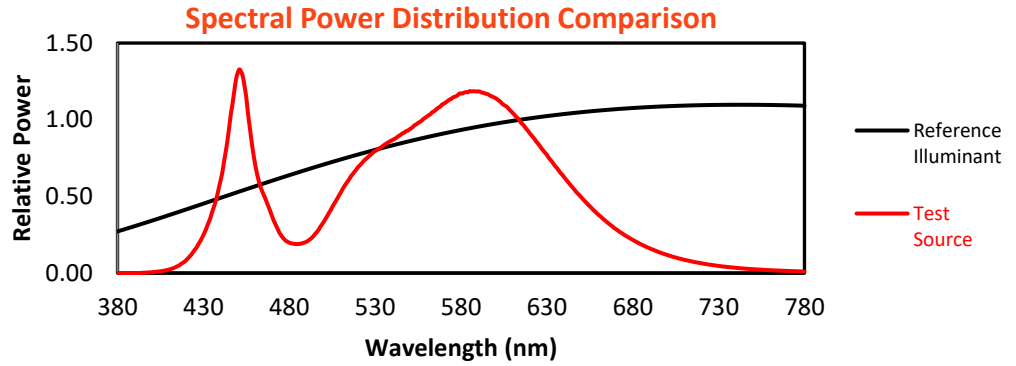
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625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

REPORT NUMBER: SP1-2406-133-1

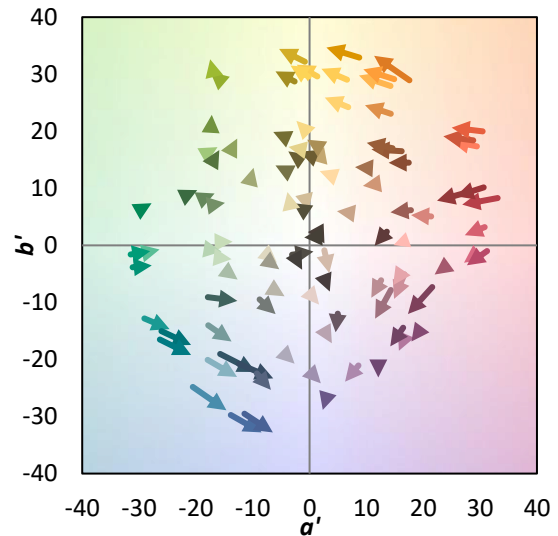
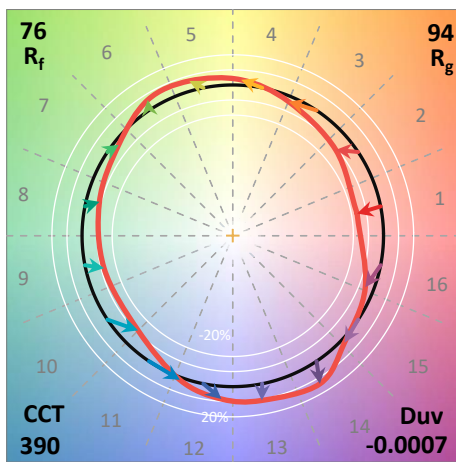
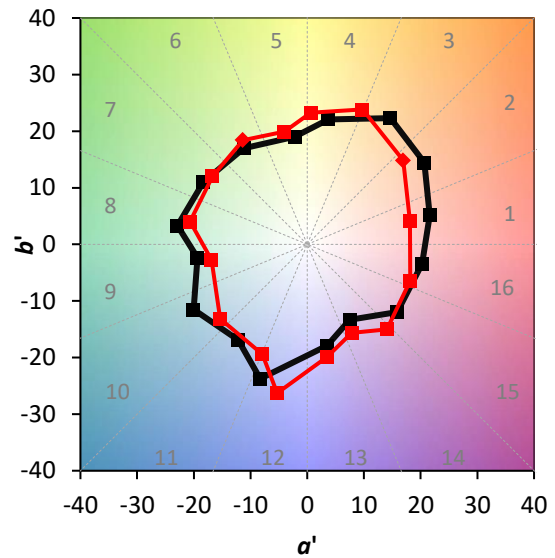
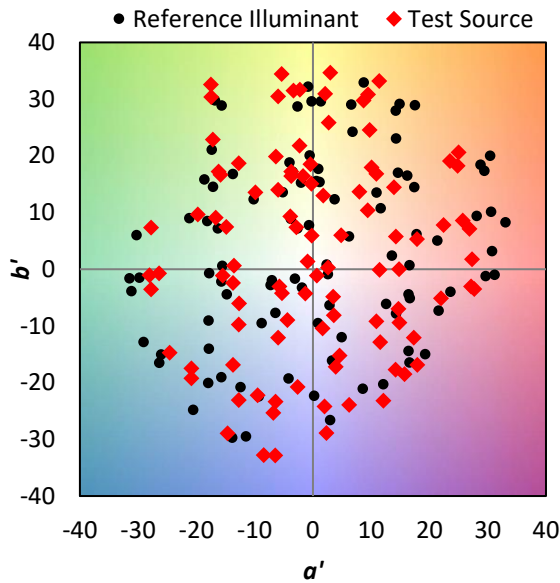
TM-30-18

**Summary**

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



**Color Vector Graphics**

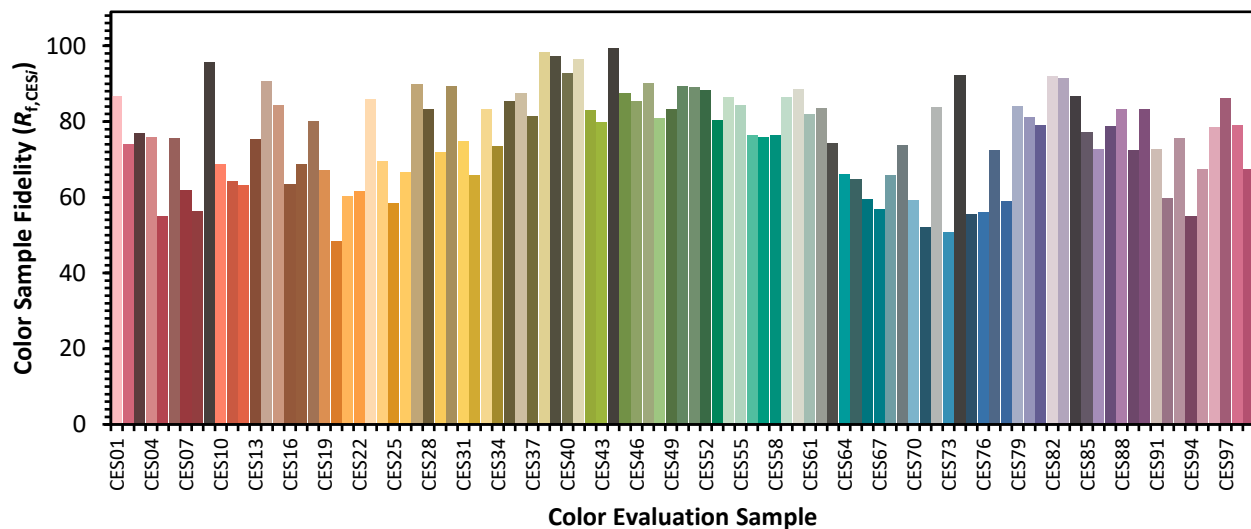


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TM-30-18

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

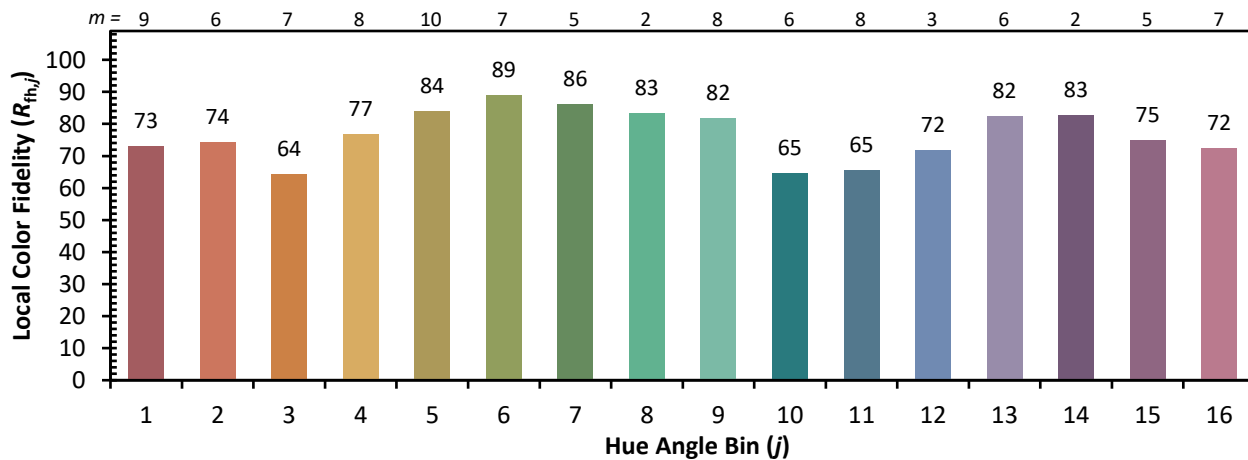
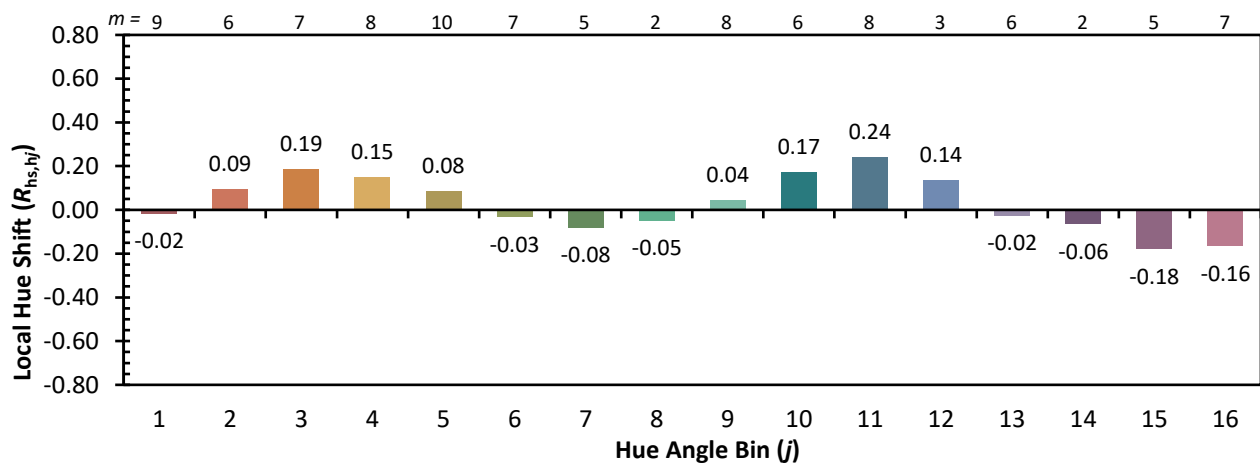
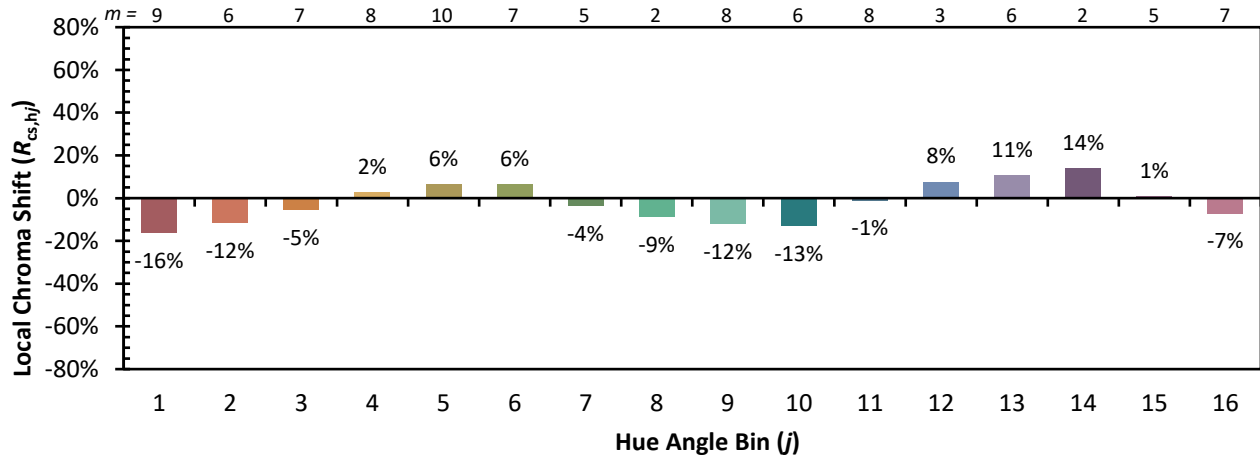
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82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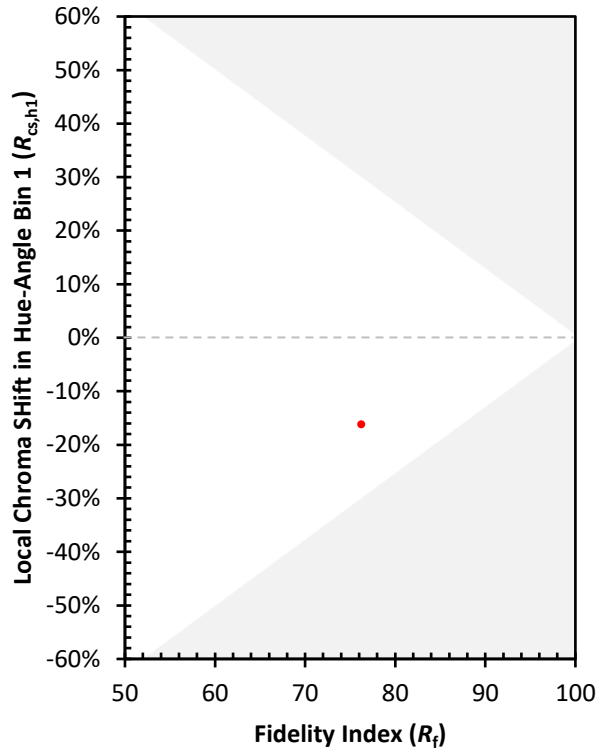
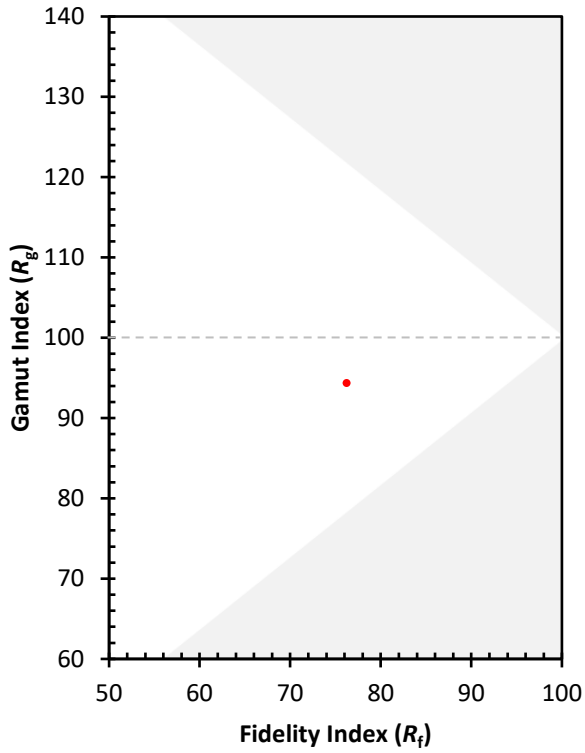
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)