

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: P856142

Luminaire Tested: **FFX-CLB-50-750-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856142
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-750-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

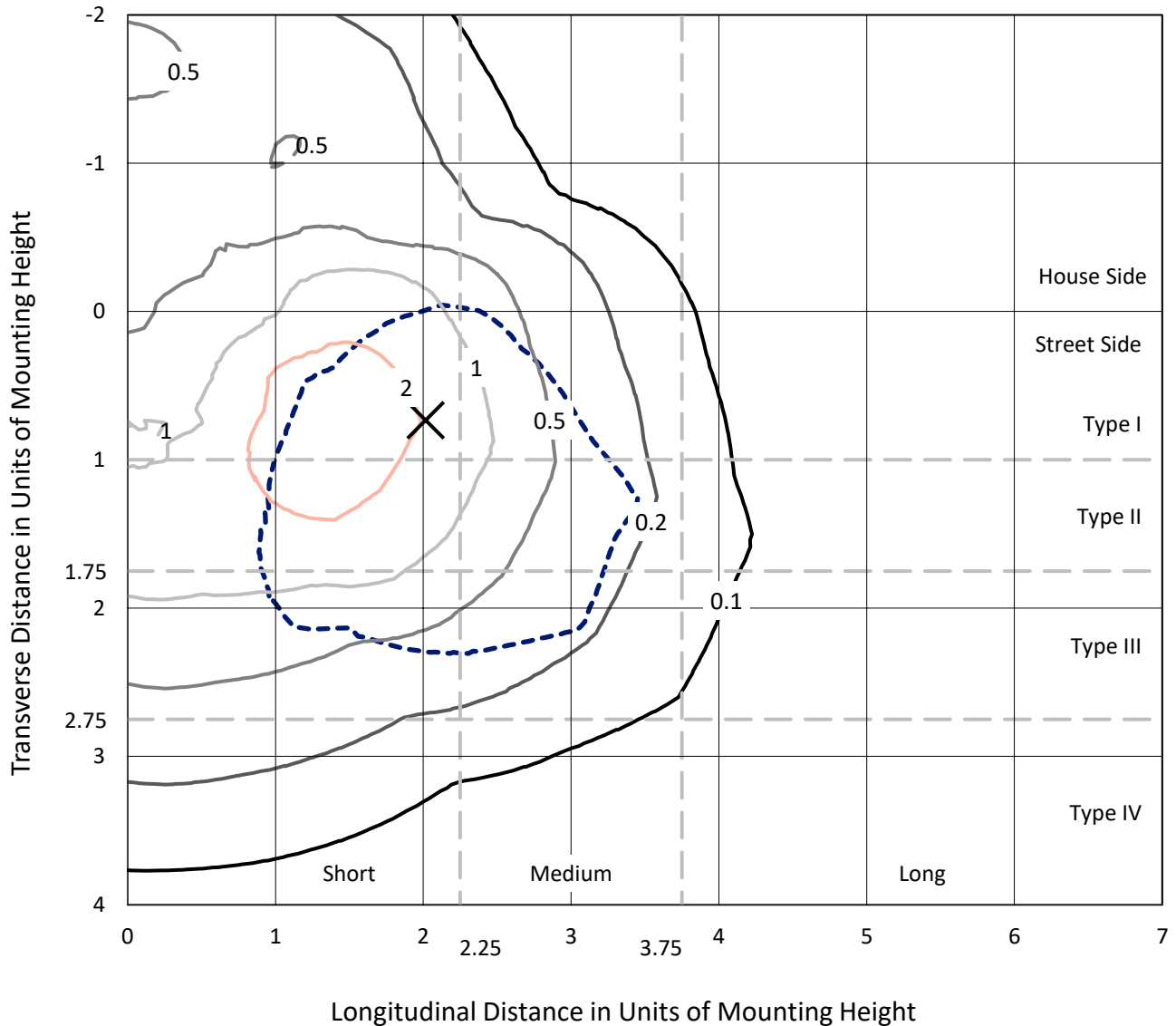
Lumens per Lamp: N/A
Luminaire Lumens: 7952.9 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

Input Watts (W): 50.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.0%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

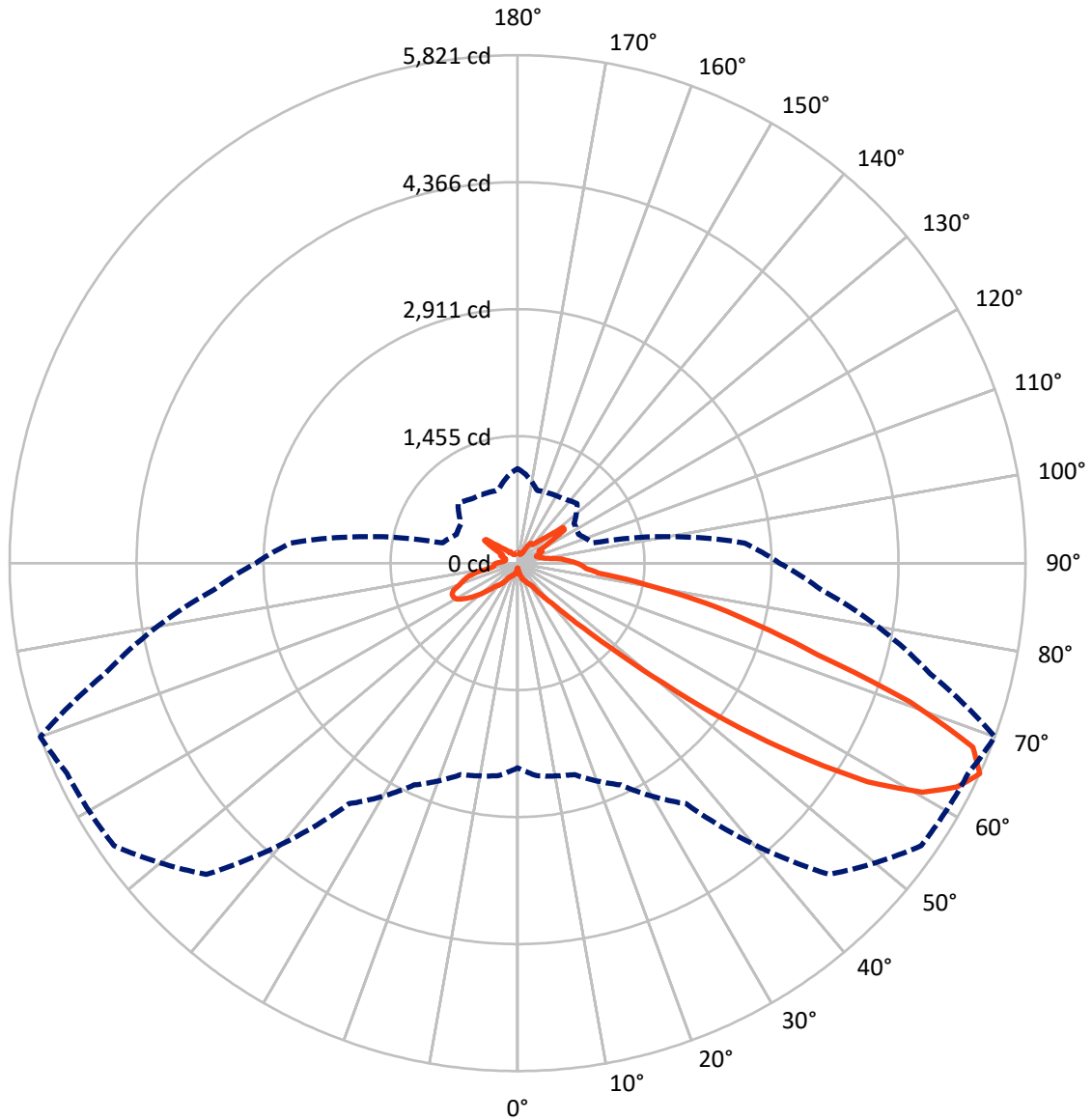
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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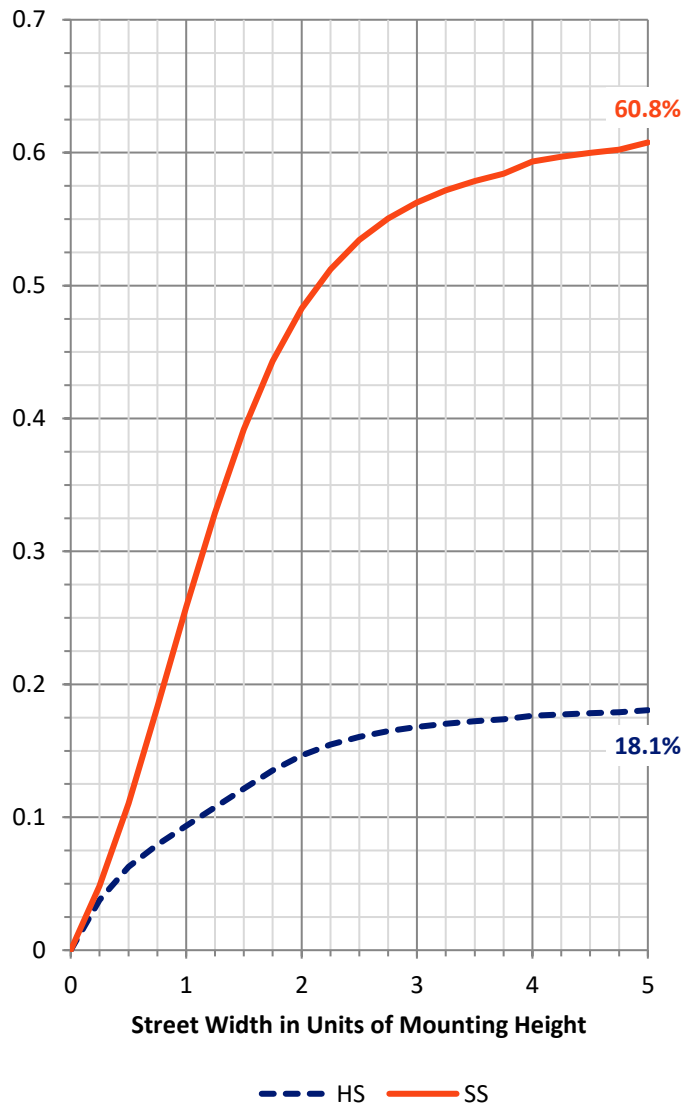
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.1	534.5	2032.5
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	4995.6	924.8	5920.4
	% Fixture	62.8	11.6	74.4
Total	Lumens	6493.7	1459.3	7952.9
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	41.7	0.5
20°-30°	88.4	1.1
30°-40°	180.1	2.3
40°-50°	458.0	5.8
50°-60°	1471.8	18.5
60°-70°	2402.0	30.2
70°-80°	1367.4	17.2
80°-90°	475.8	6.0
90°-100°	296.1	3.7
100°-110°	188.6	2.4
110°-120°	207.5	2.6
120°-130°	350.8	4.4
130°-140°	206.8	2.6
140°-150°	111.3	1.4
150°-160°	56.3	0.7
160°-170°	30.8	0.4
170°-180°	11.1	0.1
0°-90°	6493.7	81.7
0°-180°	7952.9	100.0



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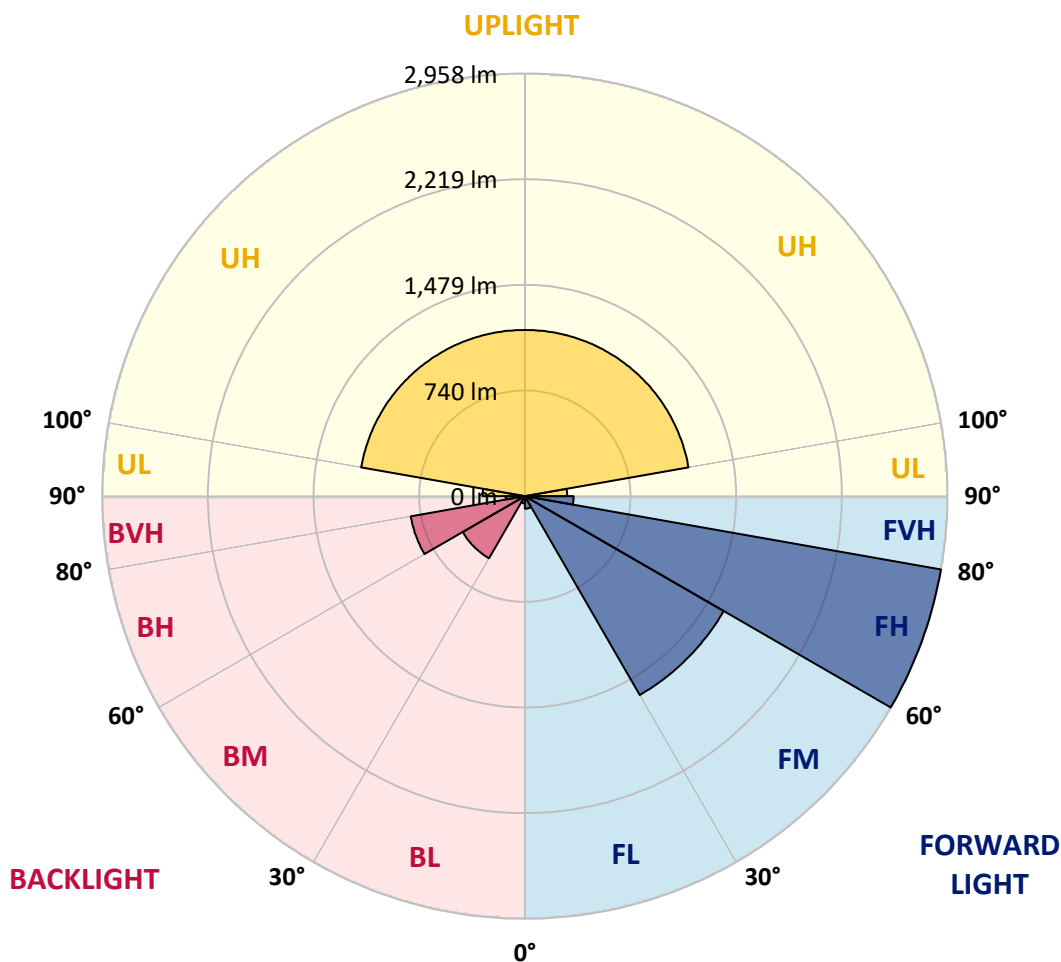
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.3	1.1			
FM (30°-60°)	1607.8	20.2			
FH (60°-80°)	2958.4	37.2			G2/5000
FVH (80°-90°)	341.2	4.3			G3/500
BL (0°-30°)	50.3	0.6	B0/110		
BM (30°-60°)	502.1	6.3	B1/1000		
BH (60°-80°)	811.0	10.2	B2/1000		G2/1000
BVH (80°-90°)	134.6	1.7			G2/225
UL (90°-100°)	296.1	3.7		U3/500	
UH (100°-180°)	1163.2	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°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	63.1	63.1	64.7	64.7	64.7	63.1	62.3	60.6	60.6	60.6	59.8
5°	82.0	81.1	82.0	84.4	85.2	82.8	81.1	78.7	78.7	77.9	77.9
7.5°	110.6	109.8	108.2	105.7	106.5	109.0	112.3	105.7	104.1	100.0	98.3
10°	138.5	136.9	138.5	134.4	130.3	124.6	127.8	126.2	122.9	118.8	115.6
12.5°	168.8	169.6	172.9	169.6	163.1	154.1	152.4	148.3	145.1	144.2	139.3
15°	200.0	200.8	204.1	203.2	196.7	184.4	179.5	175.4	173.7	168.8	158.2
17.5°	216.4	217.2	218.0	218.8	214.7	204.9	197.5	190.1	187.7	186.0	172.9
20°	224.6	222.9	224.6	227.8	231.1	222.9	215.5	211.4	209.0	203.2	186.0
22.5°	237.7	236.0	235.2	237.7	247.5	241.8	234.4	230.3	227.8	220.5	194.2
25°	251.6	250.0	252.4	250.8	263.1	260.6	253.2	249.1	245.9	236.8	206.5
27.5°	267.2	265.5	268.0	266.4	276.2	277.8	272.9	269.6	264.7	251.6	215.5
30°	280.3	278.6	281.1	280.3	290.1	295.9	293.4	292.6	285.2	269.6	231.1
32.5°	290.9	290.1	295.9	298.3	300.8	313.9	312.2	319.6	311.4	292.6	254.1
35°	315.5	318.0	333.6	349.9	352.4	378.6	381.9	409.0	400.8	376.2	329.5
37.5°	487.6	478.6	463.0	447.5	441.7	492.5	499.9	527.0	506.5	460.6	385.2
40°	519.6	504.8	486.8	474.5	476.2	567.1	551.6	654.0	595.8	527.0	470.4
42.5°	493.4	488.4	551.6	581.1	559.7	692.5	666.3	861.3	795.0	626.1	567.9
45°	618.8	608.9	631.0	660.6	667.1	911.3	893.3	1097.4	1070.3	782.7	728.6
47.5°	708.1	699.1	728.6	828.6	914.6	1178.5	1276.9	1571.1	1476.0	1112.1	986.7
50°	976.1	974.4	1065.4	1184.2	1335.0	1714.5	1975.9	2306.2	2152.9	1574.3	1353.1
52.5°	1240.8	1244.1	1355.5	1566.2	1722.7	2393.1	2764.3	2995.4	3015.9	2053.0	1753.8
55°	1440.8	1461.2	1595.7	1948.9	2185.7	2997.1	3479.0	3658.5	3863.3	2774.2	2171.0
57.5°	1830.9	1862.0	1989.9	2335.7	2666.8	3749.4	4400.1	4419.8	4725.5	3574.0	2618.4
60°	2171.8	2244.7	2289.8	2603.7	3055.3	4468.2	5084.5	5045.1	5332.0	4237.0	3072.5
62.5°	2277.5	2361.1	2403.7	2738.1	3362.6	4871.4	5404.1	5453.3	5650.8	4702.6	3350.3
65°	2346.4	2444.7	2508.6	2804.5	3365.9	5043.5	5646.7	5699.1	5821.2	4897.6	3488.8
67.5°	2311.1	2436.5	2518.5	2781.5	3188.9	4910.7	5598.3	5497.5	5627.0	4734.5	3333.9
70°	2017.7	2148.8	2231.6	2427.5	2666.0	4128.9	4826.3	4657.5	4771.4	3951.8	2741.4
72.5°	1644.0	1708.8	1759.6	1866.9	2009.5	3045.4	3667.5	3527.3	3595.3	2973.3	2054.6
75°	1350.6	1370.3	1433.4	1494.9	1518.6	2227.5	2905.3	2777.4	2856.9	2263.6	1635.0
77.5°	981.0	992.5	1082.6	1092.5	1086.7	1528.5	2289.8	2177.5	2202.9	1682.5	1220.3
80°	569.6	591.7	709.7	704.0	694.2	941.7	1612.0	1567.0	1488.3	1142.4	845.0
82.5°	401.6	423.7	477.8	490.1	483.5	676.1	1046.6	1017.1	931.8	795.0	584.3
85°	422.9	425.3	427.8	433.5	422.9	603.2	801.5	786.8	787.6	657.3	481.9
87.5°	417.1	427.0	431.1	433.5	422.9	572.9	745.0	726.1	735.1	624.5	468.0
90°	366.3	384.4	386.0	390.1	384.4	511.4	668.7	650.7	662.2	563.0	426.2
92.5°	299.1	309.0	320.4	336.0	329.5	437.6	568.8	555.7	569.6	487.6	374.5
95°	283.6	294.2	301.6	312.2	302.4	399.1	513.9	487.6	499.1	427.0	322.9
97.5°	234.4	243.4	250.0	254.1	246.7	314.7	394.2	376.2	375.4	330.3	258.2
100°	200.0	205.7	211.4	215.5	209.0	260.6	312.2	305.7	307.3	272.9	222.1
102.5°	190.1	193.4	202.4	203.2	195.9	237.7	281.1	278.6	281.9	252.4	208.2
105°	186.0	188.5	195.9	193.4	186.9	222.1	259.0	260.6	260.6	235.2	195.1
107.5°	173.7	177.8	186.0	181.9	178.7	204.9	238.5	232.8	234.4	218.8	185.2
110°	172.1	175.4	183.6	180.3	177.8	200.0	229.5	227.8	230.3	216.4	190.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	213.9	210.6	217.2	210.6	214.7	233.6	264.7	261.4	268.8	263.9	237.7
115°	263.9	265.5	272.1	259.0	263.1	281.9	299.1	304.9	311.4	304.1	277.0
117.5°	244.2	258.2	250.0	248.3	245.0	259.8	257.3	272.1	278.6	272.9	262.3
120°	261.4	278.6	254.9	242.6	237.7	274.5	292.6	291.8	286.8	275.4	253.2
122.5°	390.9	393.4	395.0	431.9	418.8	454.8	465.5	451.6	451.6	466.3	421.2
125°	609.7	612.2	610.6	627.0	617.9	652.4	666.3	665.5	657.3	649.9	605.6
127.5°	616.3	616.3	610.6	601.5	609.7	643.3	644.2	675.3	664.7	645.0	604.0
130°	430.3	433.5	454.0	460.6	472.1	479.4	471.2	498.3	503.2	499.9	472.1
132.5°	356.5	362.2	384.4	392.6	399.9	400.8	397.5	418.8	423.7	423.7	411.4
135°	308.1	314.7	317.2	313.1	323.7	331.9	338.5	355.7	354.0	350.8	340.1
137.5°	268.8	271.3	263.9	254.9	260.6	284.4	297.5	315.5	314.7	309.0	290.9
140°	227.0	227.8	223.7	219.6	225.4	245.9	258.2	277.8	275.4	271.3	250.0
142.5°	172.1	174.6	185.2	193.4	207.3	250.0	243.4	260.6	272.9	282.7	233.6
145°	181.1	177.8	176.2	185.2	203.2	264.7	245.9	268.0	273.7	280.3	223.7
147.5°	209.0	210.6	208.2	202.4	227.0	246.7	236.0	255.7	259.0	257.3	234.4
150°	163.9	166.4	167.2	164.7	195.1	194.2	183.6	198.3	200.0	200.0	184.4
152.5°	133.6	134.4	132.8	131.1	150.8	147.5	142.6	147.5	146.7	145.9	142.6
155°	127.0	127.0	125.4	126.2	139.3	136.0	132.8	136.0	134.4	131.9	128.7
157.5°	117.2	118.0	118.0	120.5	128.7	122.9	119.7	121.3	119.7	118.0	118.0
160°	110.6	110.6	111.5	114.7	119.7	113.9	111.5	112.3	111.5	109.8	110.6
162.5°	108.2	108.2	109.0	110.6	111.5	108.2	105.7	105.7	105.7	105.7	108.2
165°	106.5	106.5	106.5	107.4	107.4	104.9	104.1	104.9	105.7	106.5	109.8
167.5°	109.8	109.8	109.8	109.8	109.0	107.4	106.5	107.4	108.2	109.0	111.5
170°	114.7	113.9	113.9	113.1	112.3	110.6	109.8	109.0	109.0	109.8	110.6
172.5°	118.0	118.0	117.2	117.2	116.4	114.7	113.1	112.3	112.3	112.3	112.3
175°	122.1	122.1	122.1	122.1	121.3	119.7	118.8	117.2	117.2	117.2	117.2
177.5°	127.0	127.0	127.0	127.0	125.4	123.8	122.1	120.5	120.5	120.5	119.7
180°	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	59.0	58.2	55.7	54.9	54.1	52.5	50.8	50.0	49.2	49.2	50.0
5°	78.7	77.9	77.9	75.4	72.9	68.8	67.2	67.2	68.0	68.8	70.5
7.5°	99.2	100.8	102.4	98.3	91.0	81.1	75.4	77.0	81.1	84.4	84.4
10°	114.7	114.7	120.5	115.6	103.3	91.0	82.8	81.1	82.0	82.8	83.6
12.5°	136.9	136.9	133.6	120.5	108.2	95.9	89.3	87.7	87.7	84.4	83.6
15°	153.3	148.3	136.9	124.6	113.9	101.6	94.2	91.8	89.3	86.9	86.1
17.5°	163.1	154.1	138.5	127.0	116.4	106.5	99.2	94.2	91.8	92.6	92.6
20°	174.6	164.7	150.8	138.5	125.4	112.3	103.3	95.9	93.4	94.2	93.4
22.5°	183.6	173.7	159.8	145.9	131.9	118.0	107.4	98.3	95.1	95.9	95.9
25°	194.2	186.0	171.3	154.9	137.7	124.6	113.9	103.3	98.3	97.5	97.5
27.5°	204.9	199.1	183.6	163.9	145.9	130.3	119.7	107.4	101.6	99.2	99.2
30°	218.8	212.3	196.7	172.9	153.3	138.5	127.0	113.9	105.7	101.6	100.8
32.5°	240.9	233.6	214.7	189.3	161.5	146.7	134.4	119.7	109.0	104.1	103.3
35°	313.1	301.6	272.1	242.6	197.5	163.9	143.4	124.6	112.3	105.7	104.9
37.5°	358.1	330.3	290.9	271.3	222.1	200.8	172.9	142.6	117.2	109.0	107.4
40°	431.1	392.6	343.4	304.9	216.4	219.6	202.4	177.8	139.3	114.7	112.3
42.5°	492.5	444.2	369.6	319.6	217.2	229.5	216.4	195.9	167.2	136.0	131.1
45°	607.3	545.0	429.4	343.4	222.9	244.2	227.8	206.5	181.1	159.8	157.4
47.5°	820.4	736.0	536.8	382.7	260.6	283.6	254.1	226.2	203.2	178.7	174.6
50°	1122.8	1022.0	660.6	413.9	325.4	373.7	320.4	273.7	247.5	229.5	227.0
52.5°	1471.1	1365.4	751.5	471.2	404.0	485.2	423.7	369.6	335.2	335.2	340.1
55°	1875.9	1770.2	824.5	550.7	500.7	608.1	541.7	497.5	481.1	550.7	569.6
57.5°	2277.5	2143.1	873.6	631.9	613.8	752.3	672.8	635.1	665.5	872.0	935.9
60°	2643.9	2421.8	912.2	708.9	710.5	867.1	808.1	805.6	852.3	1116.2	1197.4
62.5°	2855.3	2552.9	909.7	753.2	767.1	938.4	889.2	902.3	928.5	1157.2	1218.7
65°	3000.4	2615.2	890.8	772.8	790.9	963.8	902.3	880.2	863.0	1024.4	1083.4
67.5°	2900.4	2469.3	848.2	744.1	776.1	926.9	845.8	782.7	749.1	831.0	871.2
70°	2429.1	2059.5	750.7	669.6	699.1	781.0	703.2	640.9	605.6	649.9	668.7
72.5°	1839.9	1567.0	676.9	626.1	613.0	645.8	572.0	502.4	481.1	509.8	513.9
75°	1465.3	1226.0	622.9	566.3	514.7	546.6	456.5	372.1	359.8	359.8	353.2
77.5°	1099.0	908.9	531.1	440.9	379.4	431.9	340.1	259.0	242.6	239.3	230.3
80°	736.8	618.8	357.3	292.6	272.9	320.4	241.8	190.1	191.0	190.1	179.5
82.5°	514.7	477.8	290.1	254.9	233.6	252.4	218.8	182.8	181.1	182.8	171.3
85°	456.5	437.6	281.1	263.1	240.9	243.4	209.8	172.9	173.7	177.0	167.2
87.5°	438.5	417.1	281.9	254.1	235.2	225.4	190.1	159.8	164.7	168.0	159.8
90°	395.0	373.7	259.0	229.5	209.8	195.9	168.0	151.6	158.2	161.5	154.1
92.5°	342.6	320.4	215.5	202.4	197.5	197.5	176.2	161.5	165.5	167.2	160.6
95°	295.0	273.7	191.8	177.8	173.7	174.6	157.4	145.1	147.5	146.7	141.8
97.5°	238.5	225.4	167.2	158.2	154.1	152.4	141.0	131.9	136.9	140.1	136.0
100°	210.6	204.1	161.5	154.9	149.2	148.3	138.5	132.8	136.9	141.8	138.5
102.5°	196.7	191.8	154.1	145.1	141.0	139.3	132.8	126.2	130.3	135.2	132.8
105°	185.2	177.8	147.5	139.3	133.6	132.8	126.2	118.0	120.5	127.0	125.4
107.5°	175.4	170.5	146.7	137.7	130.3	130.3	122.9	116.4	117.2	119.7	119.7
110°	183.6	177.8	152.4	145.9	136.0	132.8	131.1	126.2	122.1	120.5	120.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	227.0	216.4	191.0	183.6	167.2	155.7	145.1	135.2	128.7	126.2	124.6
115°	268.0	255.7	225.4	206.5	184.4	167.2	152.4	141.8	131.9	128.7	131.9
117.5°	276.2	243.4	196.7	181.1	168.0	157.4	149.2	141.0	133.6	136.0	133.6
120°	273.7	233.6	198.3	220.5	198.3	173.7	154.1	154.1	151.6	139.3	141.8
122.5°	421.2	393.4	350.8	337.7	275.4	251.6	214.7	183.6	153.3	136.0	127.8
125°	577.0	549.9	484.4	434.4	372.1	306.5	235.2	181.1	141.8	125.4	127.8
127.5°	580.2	555.7	493.4	409.0	327.0	262.3	195.9	160.6	138.5	127.8	126.2
130°	452.4	428.6	375.4	310.6	259.0	216.4	176.2	145.1	125.4	117.2	114.7
132.5°	391.7	370.4	321.3	262.3	224.6	191.0	157.4	126.2	113.1	107.4	108.2
135°	329.5	304.1	257.3	225.4	201.6	171.3	141.0	115.6	109.0	107.4	106.5
137.5°	279.5	261.4	228.7	204.1	181.1	154.1	123.8	108.2	105.7	107.4	105.7
140°	237.7	222.9	204.9	183.6	155.7	130.3	110.6	103.3	107.4	108.2	107.4
142.5°	204.9	190.1	171.3	142.6	129.5	118.0	113.1	107.4	107.4	106.5	105.7
145°	171.3	151.6	142.6	146.7	138.5	127.0	118.0	106.5	102.4	102.4	103.3
147.5°	196.7	176.2	164.7	155.7	140.1	123.8	109.8	99.2	97.5	100.8	100.0
150°	169.6	150.8	142.6	130.3	120.5	108.2	99.2	95.1	95.9	100.0	100.0
152.5°	135.2	122.1	117.2	113.9	109.0	101.6	96.7	95.1	96.7	98.3	98.3
155°	127.0	119.7	113.9	111.5	105.7	100.0	95.9	95.1	96.7	98.3	100.0
157.5°	118.8	116.4	109.0	106.5	101.6	99.2	96.7	96.7	97.5	99.2	100.8
160°	113.1	112.3	105.7	104.9	101.6	100.0	100.0	100.8	101.6	101.6	101.6
162.5°	109.8	109.8	107.4	105.7	104.9	104.1	106.5	107.4	106.5	106.5	106.5
165°	110.6	111.5	109.0	107.4	106.5	108.2	112.3	112.3	110.6	109.8	109.0
167.5°	111.5	112.3	110.6	109.8	109.8	111.5	113.1	112.3	111.5	110.6	109.8
170°	110.6	111.5	111.5	112.3	112.3	112.3	113.9	113.9	112.3	111.5	111.5
172.5°	112.3	113.1	113.9	114.7	115.6	114.7	115.6	115.6	115.6	115.6	116.4
175°	117.2	117.2	118.0	118.0	117.2	118.0	118.0	118.0	118.8	120.5	120.5
177.5°	119.7	119.7	118.8	118.8	118.0	118.8	118.8	118.8	118.8	119.7	118.8
180°	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

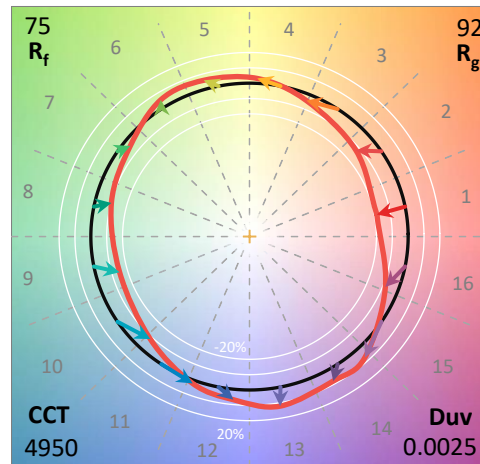
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 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-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



Test Conditions

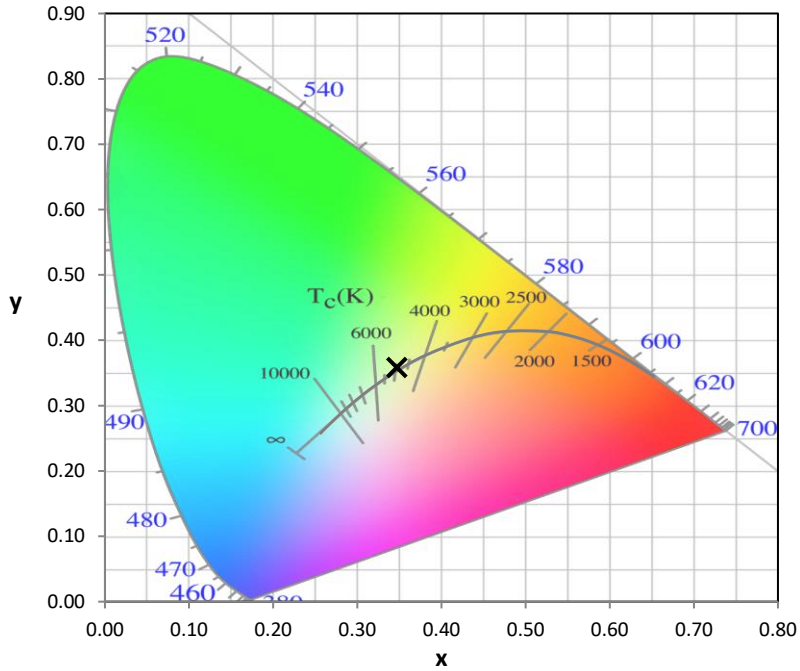
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

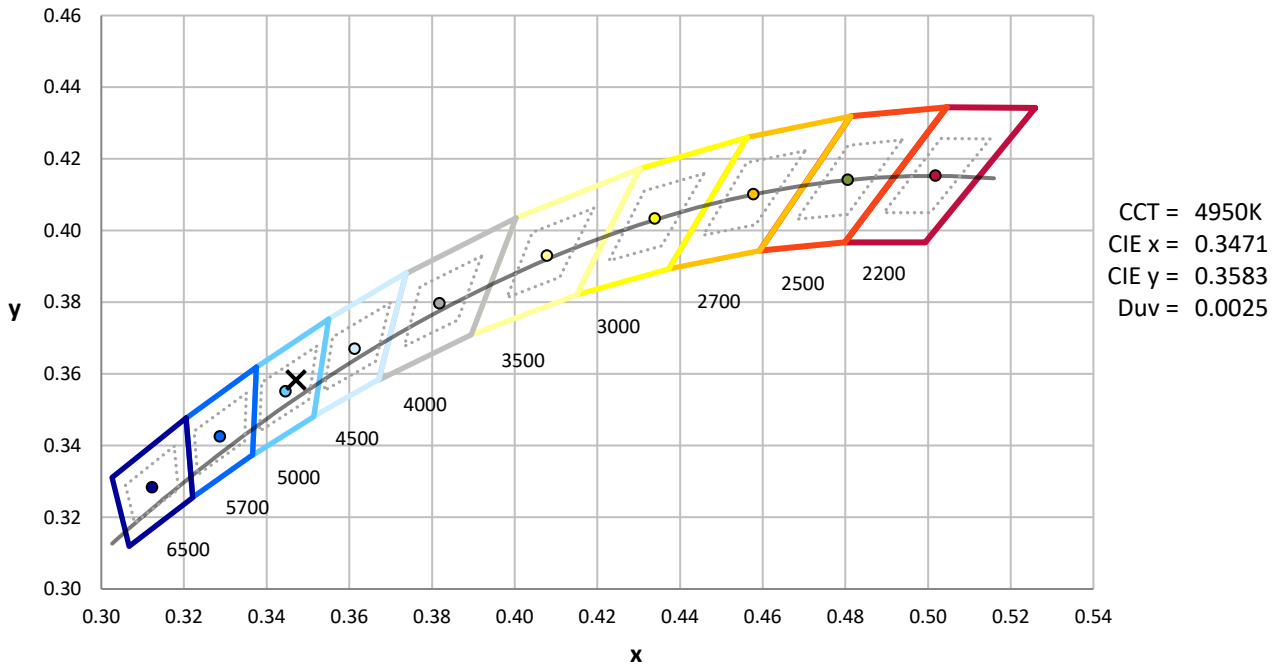
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



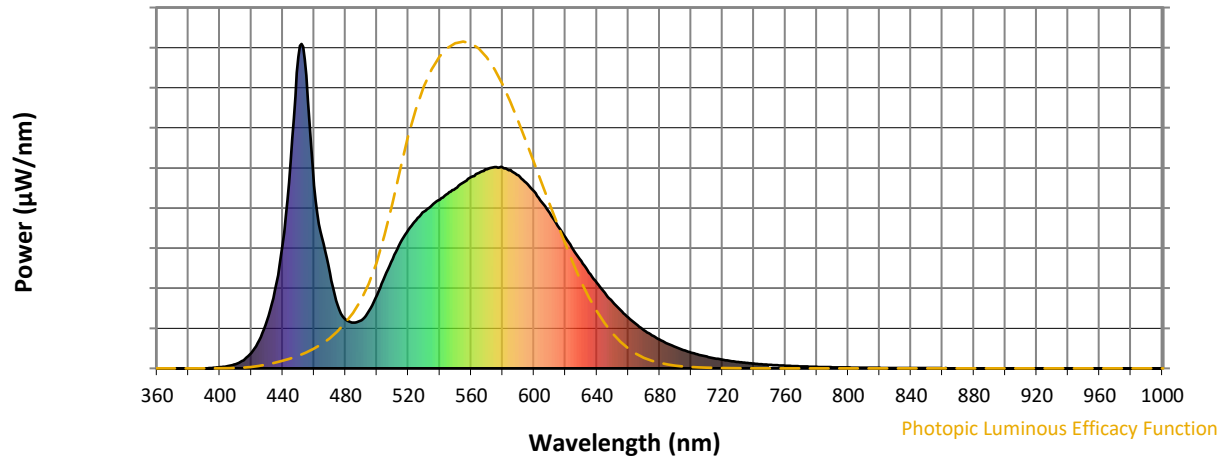
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

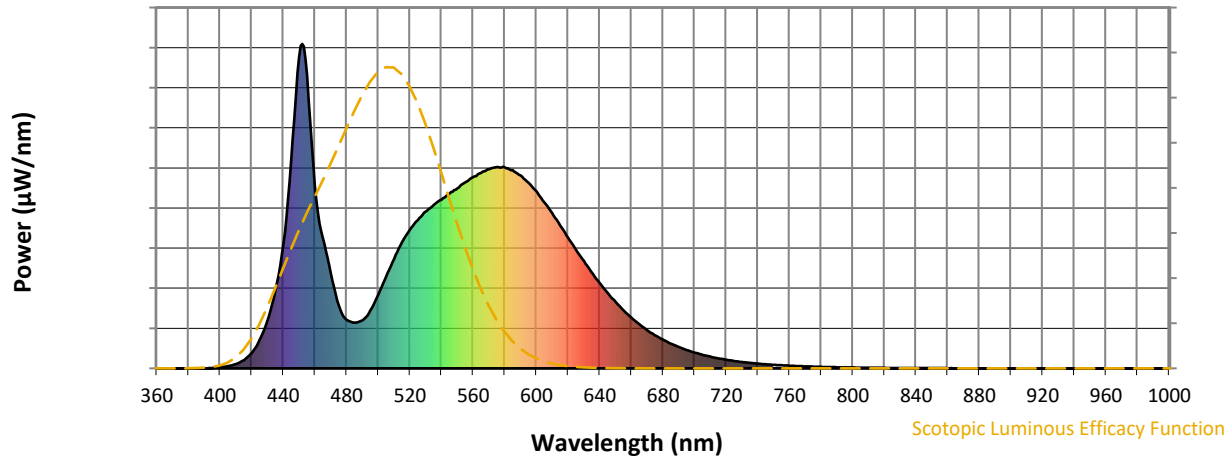


Photopic Lumens: NR

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



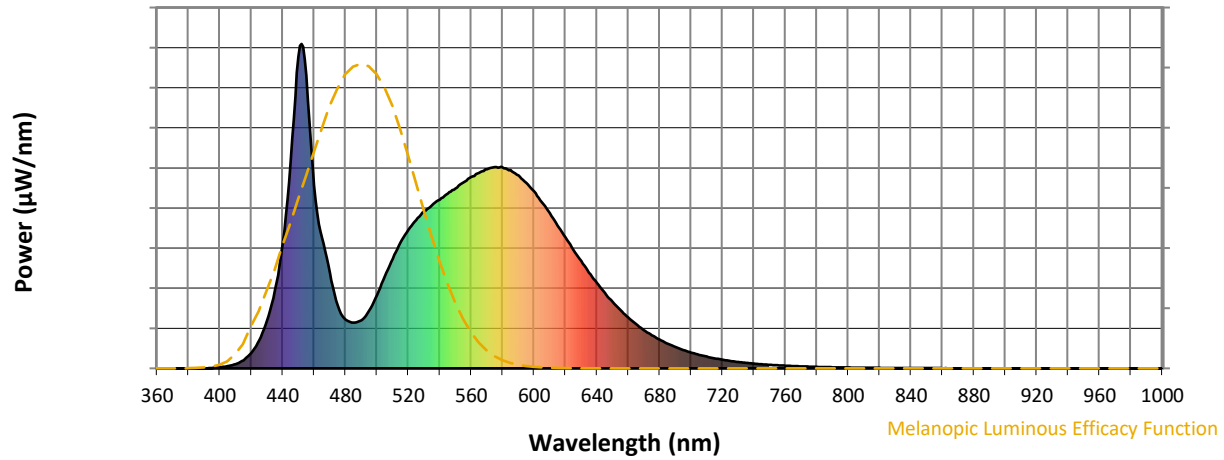
Scotopic Lumens: NR

S/P: 1.8

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

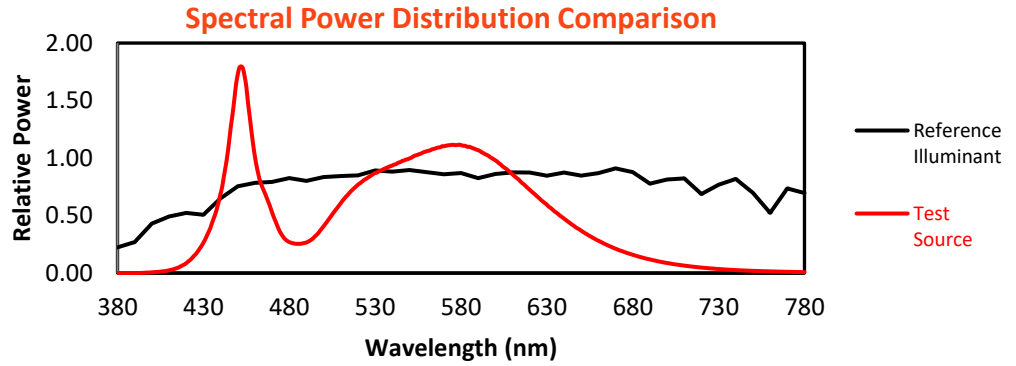
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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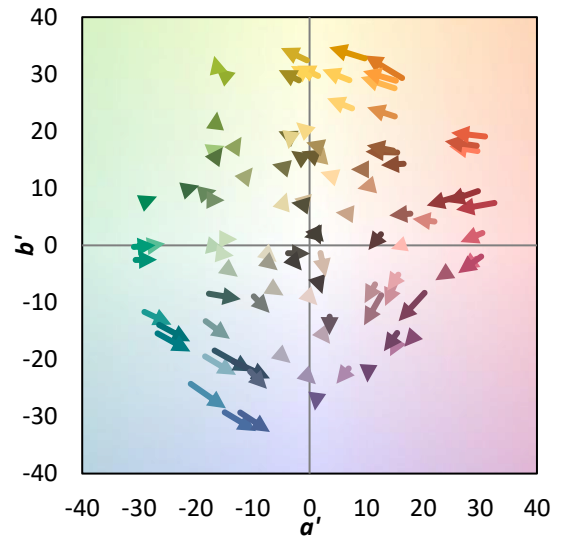
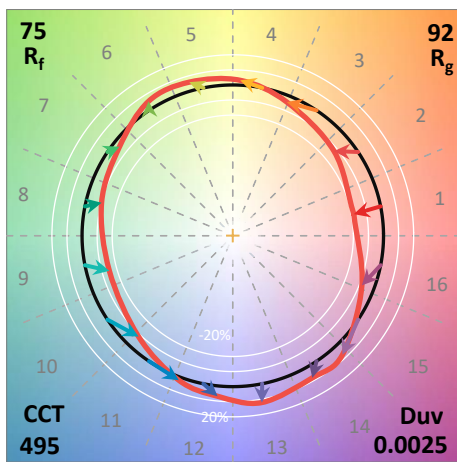
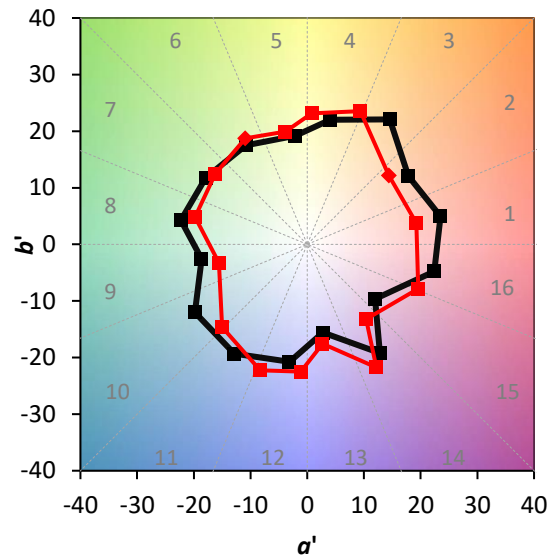
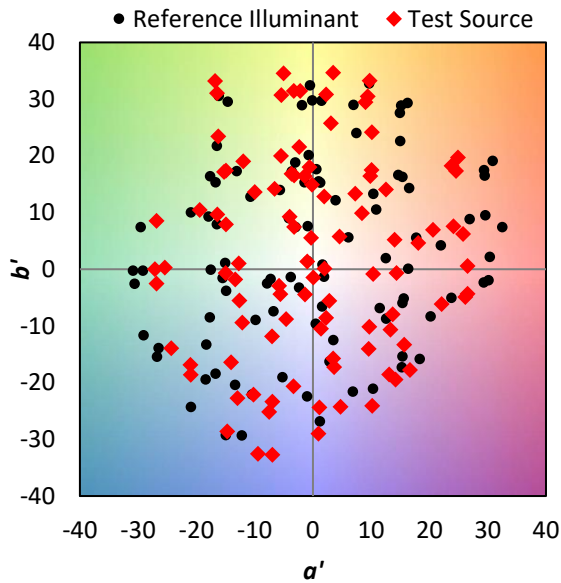
TM-30-18

Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_9 = -35.4$



Color Vector Graphics

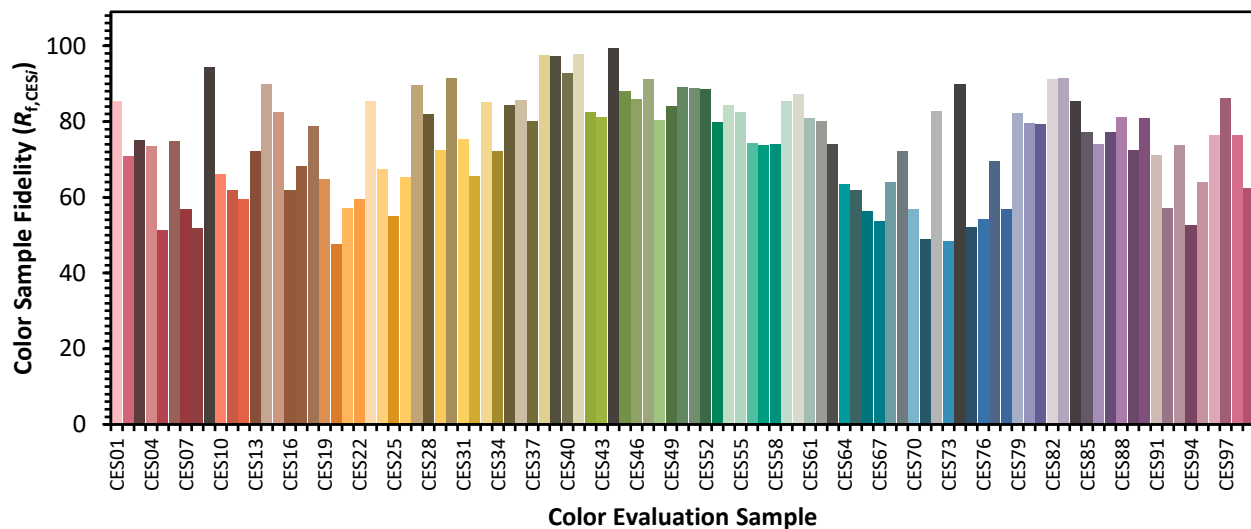


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Individual Sample Fidelity Index ($R_{f,i}$)

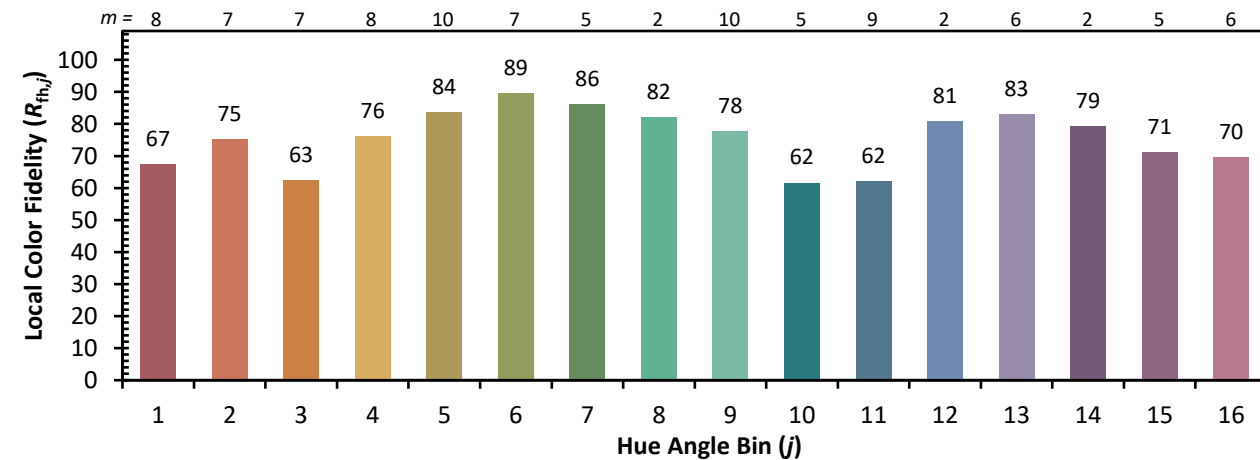
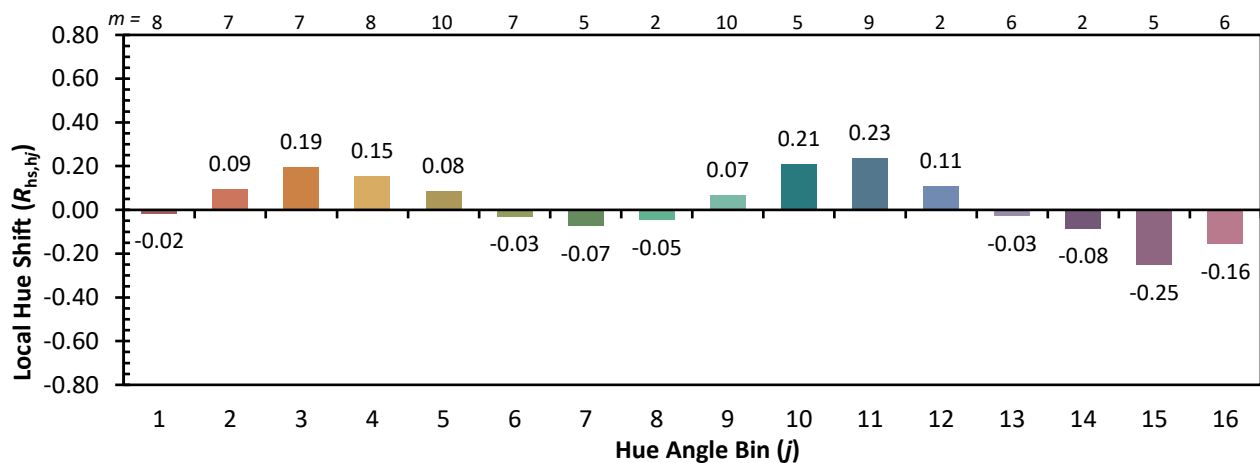
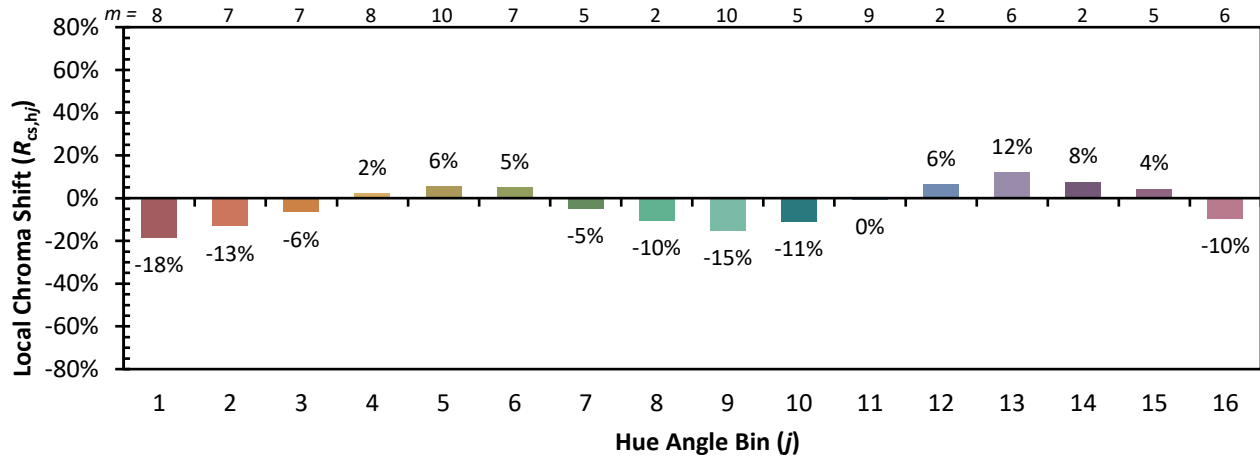
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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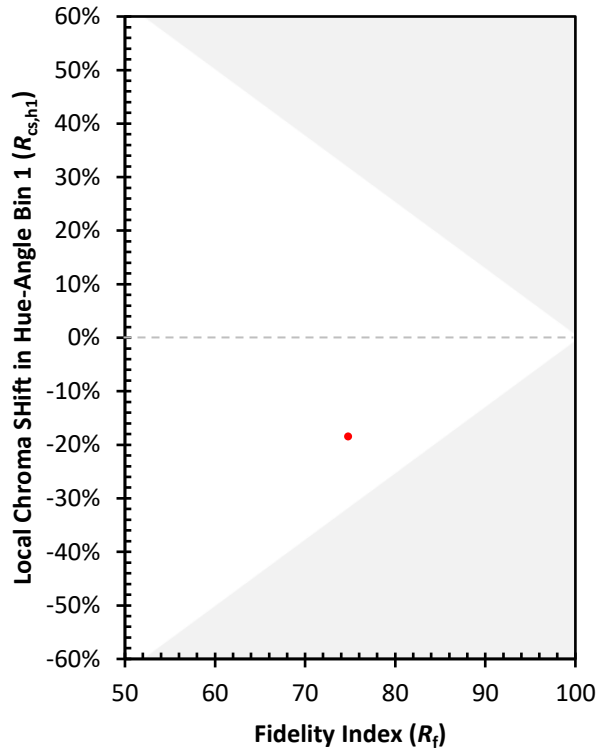
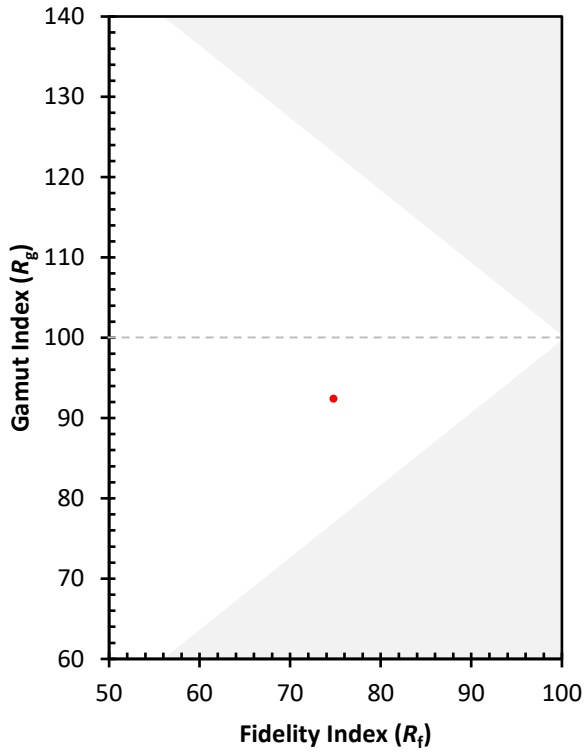
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)