

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: P856116

Luminaire Tested: **FFX-CLB-40-727-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856116
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-727-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

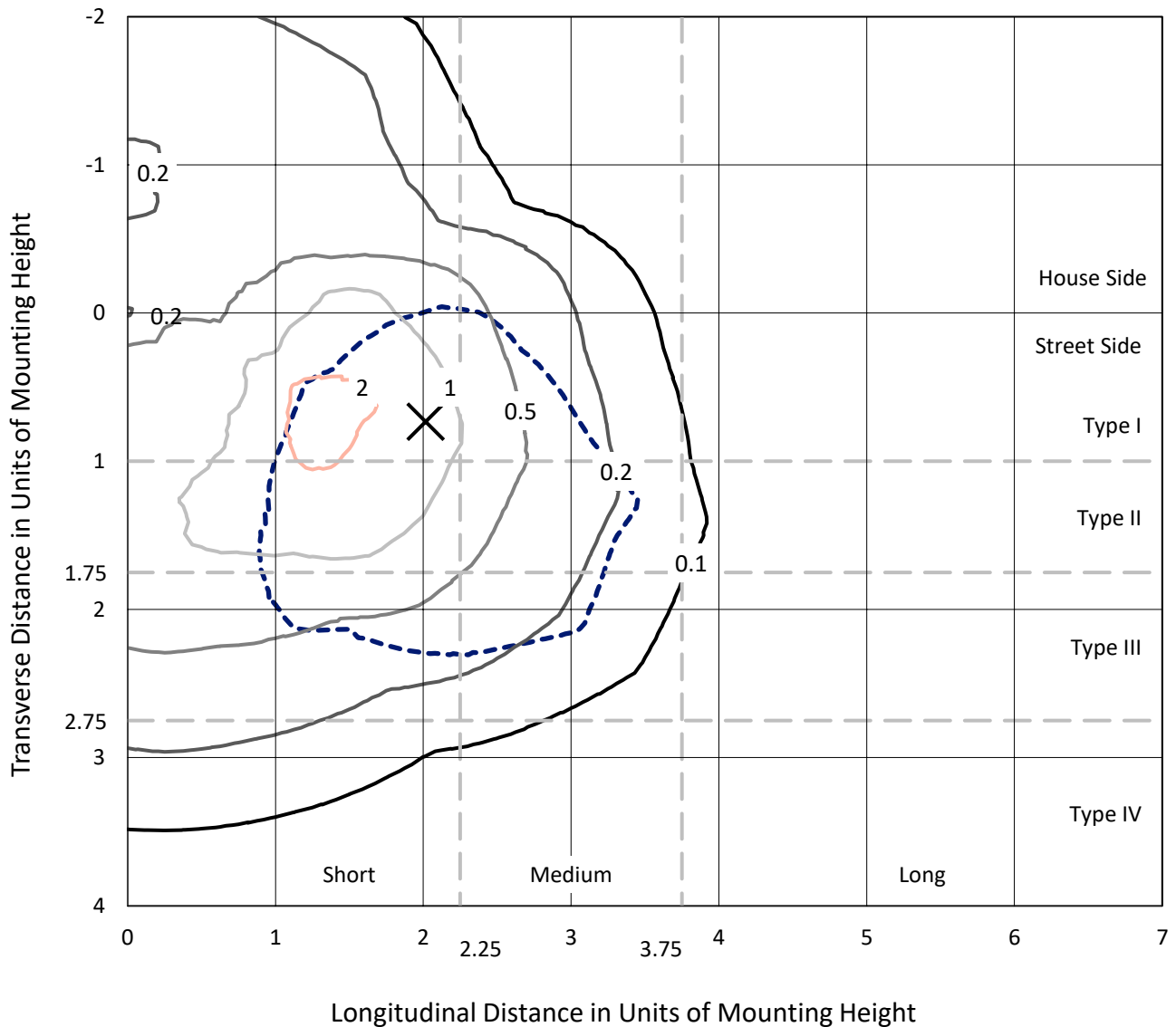
Lumens per Lamp: N/A
Luminaire Lumens: 5782.5 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

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

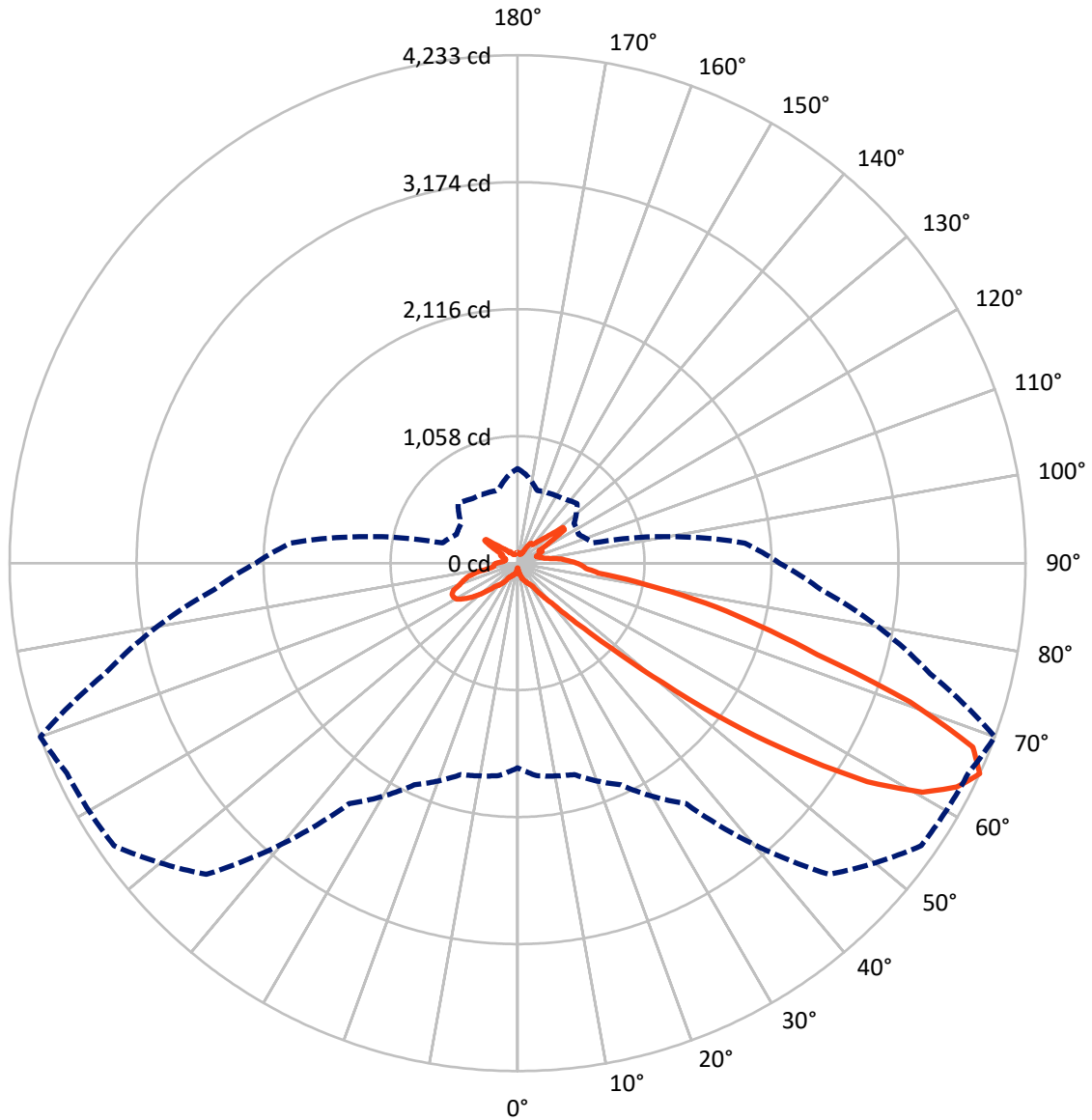
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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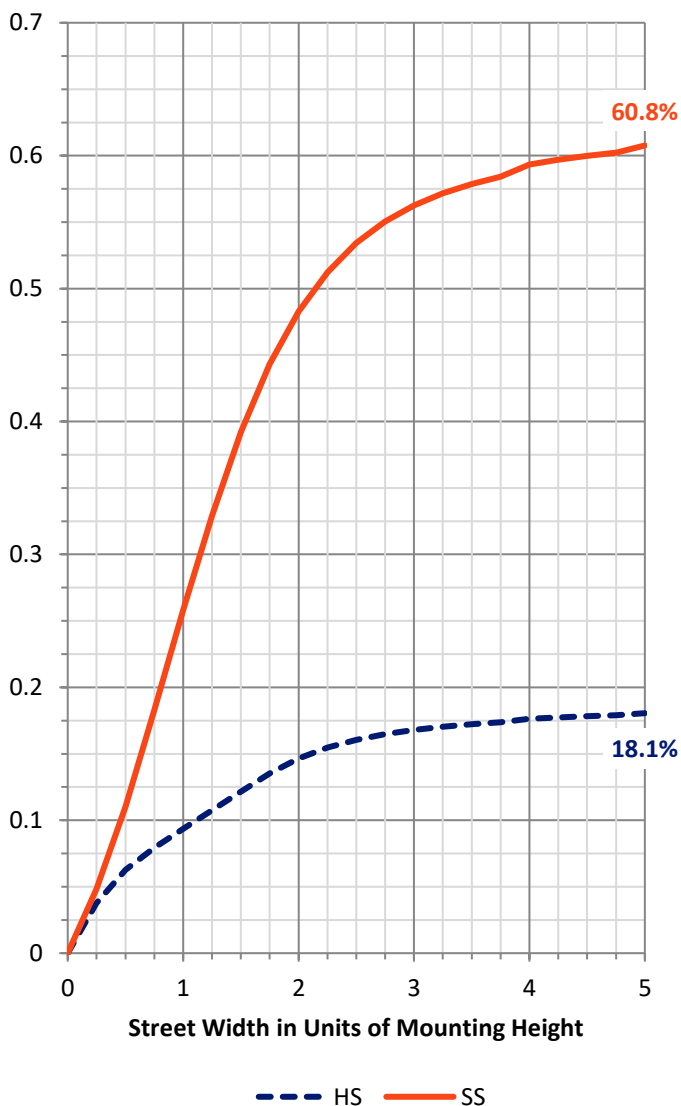
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.2	388.6	1477.8
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	3632.3	672.4	4304.7
	% Fixture	62.8	11.6	74.4
Total	Lumens	4721.5	1061.0	5782.5
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	30.3	0.5
20°-30°	64.3	1.1
30°-40°	131.0	2.3
40°-50°	333.0	5.8
50°-60°	1070.1	18.5
60°-70°	1746.5	30.2
70°-80°	994.2	17.2
80°-90°	346.0	6.0
90°-100°	215.3	3.7
100°-110°	137.1	2.4
110°-120°	150.8	2.6
120°-130°	255.1	4.4
130°-140°	150.4	2.6
140°-150°	80.9	1.4
150°-160°	40.9	0.7
160°-170°	22.4	0.4
170°-180°	8.1	0.1
0°-90°	4721.5	81.7
0°-180°	5782.5	100.0

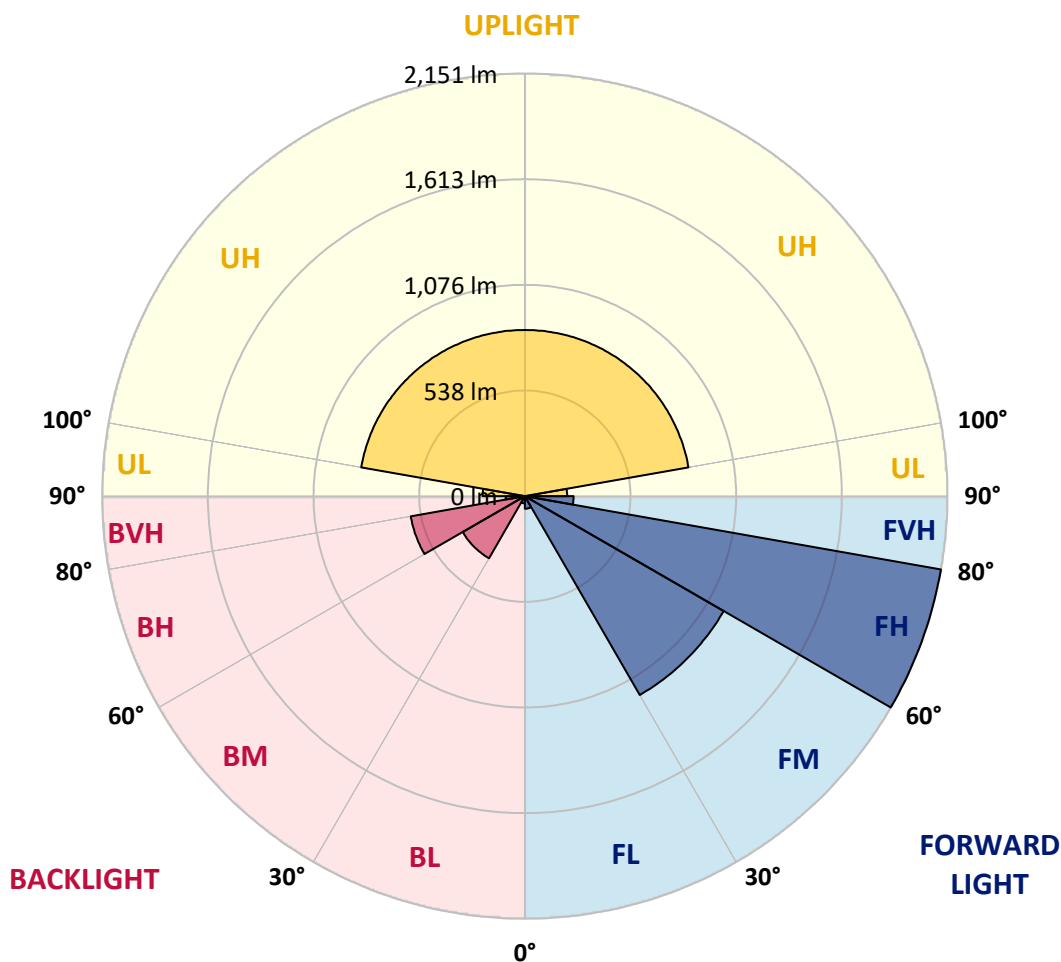


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.2	1.1			
FM (30°-60°)	1169.0	20.2			
FH (60°-80°)	2151.0	37.2			G2/5000
FVH (80°-90°)	248.1	4.3			G3/500
BL (0°-30°)	36.6	0.6	B0/110		
BM (30°-60°)	365.1	6.3	B1/1000		
BH (60°-80°)	589.7	10.2	B2/1000		G2/1000
BVH (80°-90°)	97.9	1.7			G1/100
UL (90°-100°)	215.3	3.7		U3/500	
UH (100°-180°)	845.7	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°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	45.9	45.9	47.1	47.1	47.1	45.9	45.3	44.1	44.1	44.1	43.5
5°	59.6	59.0	59.6	61.4	62.0	60.2	59.0	57.2	57.2	56.6	56.6
7.5°	80.4	79.8	78.7	76.9	77.5	79.3	81.6	76.9	75.7	72.7	71.5
10°	100.7	99.5	100.7	97.7	94.7	90.6	93.0	91.8	89.4	86.4	84.0
12.5°	122.8	123.3	125.7	123.3	118.6	112.0	110.8	107.9	105.5	104.9	101.3
15°	145.4	146.0	148.4	147.8	143.0	134.1	130.5	127.5	126.3	122.8	115.0
17.5°	157.3	157.9	158.5	159.1	156.1	149.0	143.6	138.2	136.5	135.3	125.7
20°	163.3	162.1	163.3	165.7	168.0	162.1	156.7	153.7	152.0	147.8	135.3
22.5°	172.8	171.6	171.0	172.8	180.0	175.8	170.4	167.4	165.7	160.3	141.2
25°	182.9	181.7	183.5	182.3	191.3	189.5	184.1	181.1	178.8	172.2	150.2
27.5°	194.3	193.1	194.9	193.7	200.8	202.0	198.4	196.0	192.5	182.9	156.7
30°	203.8	202.6	204.4	203.8	210.9	215.1	213.3	212.7	207.4	196.0	168.0
32.5°	211.5	210.9	215.1	216.9	218.7	228.2	227.0	232.4	226.4	212.7	184.7
35°	229.4	231.2	242.5	254.4	256.2	275.3	277.7	297.3	291.4	273.5	239.5
37.5°	354.6	348.0	336.7	325.4	321.2	358.1	363.5	383.2	368.3	334.9	280.1
40°	377.8	367.1	354.0	345.0	346.2	412.4	401.0	475.5	433.2	383.2	342.0
42.5°	358.7	355.1	401.0	422.5	407.0	503.5	484.5	626.3	578.0	455.3	412.9
45°	449.9	442.7	458.8	480.3	485.1	662.6	649.5	797.9	778.2	569.1	529.7
47.5°	514.8	508.3	529.7	602.4	665.0	856.9	928.4	1142.3	1073.2	808.6	717.4
50°	709.7	708.5	774.7	861.1	970.7	1246.6	1436.7	1676.8	1565.4	1144.7	983.8
52.5°	902.2	904.6	985.6	1138.7	1252.6	1740.0	2009.9	2178.0	2192.9	1492.7	1275.2
55°	1047.6	1062.5	1160.2	1417.0	1589.2	2179.2	2529.5	2660.0	2809.0	2017.1	1578.5
57.5°	1331.2	1353.9	1446.8	1698.3	1939.0	2726.2	3199.3	3213.6	3435.9	2598.7	1903.9
60°	1579.1	1632.1	1664.9	1893.1	2221.5	3248.8	3696.9	3668.3	3876.8	3080.7	2234.0
62.5°	1656.0	1716.7	1747.7	1990.9	2444.9	3542.0	3929.3	3965.0	4108.6	3419.2	2436.0
65°	1706.0	1777.5	1824.0	2039.1	2447.3	3667.1	4105.7	4143.8	4232.6	3561.0	2536.7
67.5°	1680.4	1771.6	1831.2	2022.4	2318.6	3570.6	4070.5	3997.2	4091.4	3442.4	2424.1
70°	1467.1	1562.4	1622.6	1765.0	1938.4	3002.1	3509.2	3386.4	3469.3	2873.4	1993.2
72.5°	1195.3	1242.4	1279.4	1357.4	1461.1	2214.3	2666.6	2564.7	2614.2	2161.9	1493.9
75°	982.0	996.3	1042.2	1086.9	1104.2	1619.6	2112.4	2019.5	2077.3	1645.8	1188.8
77.5°	713.3	721.6	787.2	794.3	790.1	1111.3	1664.9	1583.3	1601.7	1223.4	887.3
80°	414.1	430.2	516.0	511.9	504.7	684.7	1172.1	1139.3	1082.1	830.7	614.4
82.5°	292.0	308.1	347.4	356.3	351.6	491.6	760.9	739.5	677.5	578.0	424.9
85°	307.5	309.3	311.1	315.2	307.5	438.6	582.8	572.1	572.6	477.9	350.4
87.5°	303.3	310.5	313.4	315.2	307.5	416.5	541.7	528.0	534.5	454.1	340.3
90°	266.4	279.5	280.7	283.6	279.5	371.8	486.2	473.1	481.5	409.4	309.9
92.5°	217.5	224.6	233.0	244.3	239.5	318.2	413.5	404.0	414.1	354.6	272.3
95°	206.2	213.9	219.3	227.0	219.9	290.2	373.6	354.6	362.9	310.5	234.8
97.5°	170.4	177.0	181.7	184.7	179.4	228.8	286.6	273.5	272.9	240.1	187.7
100°	145.4	149.6	153.7	156.7	152.0	189.5	227.0	222.3	223.5	198.4	161.5
102.5°	138.2	140.6	147.2	147.8	142.4	172.8	204.4	202.6	205.0	183.5	151.4
105°	135.3	137.1	142.4	140.6	135.9	161.5	188.3	189.5	189.5	171.0	141.8
107.5°	126.3	129.3	135.3	132.3	129.9	149.0	173.4	169.2	170.4	159.1	134.7
110°	125.1	127.5	133.5	131.1	129.3	145.4	166.8	165.7	167.4	157.3	138.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	155.5	153.1	157.9	153.1	156.1	169.8	192.5	190.1	195.5	191.9	172.8
115°	191.9	193.1	197.8	188.3	191.3	205.0	217.5	221.7	226.4	221.1	201.4
117.5°	177.6	187.7	181.7	180.6	178.2	188.9	187.1	197.8	202.6	198.4	190.7
120°	190.1	202.6	185.3	176.4	172.8	199.6	212.7	212.1	208.6	200.2	184.1
122.5°	284.2	286.0	287.2	314.0	304.5	330.7	338.5	328.3	328.3	339.1	306.3
125°	443.3	445.1	443.9	455.9	449.3	474.3	484.5	483.9	477.9	472.5	440.4
127.5°	448.1	448.1	443.9	437.4	443.3	467.8	468.4	491.0	483.3	469.0	439.2
130°	312.8	315.2	330.1	334.9	343.2	348.6	342.6	362.3	365.9	363.5	343.2
132.5°	259.2	263.4	279.5	285.4	290.8	291.4	289.0	304.5	308.1	308.1	299.1
135°	224.1	228.8	230.6	227.6	235.4	241.3	246.1	258.6	257.4	255.0	247.3
137.5°	195.5	197.2	191.9	185.3	189.5	206.8	216.3	229.4	228.8	224.6	211.5
140°	165.1	165.7	162.7	159.7	163.9	178.8	187.7	202.0	200.2	197.2	181.7
142.5°	125.1	126.9	134.7	140.6	150.8	181.7	177.0	189.5	198.4	205.6	169.8
145°	131.7	129.3	128.1	134.7	147.8	192.5	178.8	194.9	199.0	203.8	162.7
147.5°	152.0	153.1	151.4	147.2	165.1	179.4	171.6	185.9	188.3	187.1	170.4
150°	119.2	121.0	121.6	119.8	141.8	141.2	133.5	144.2	145.4	145.4	134.1
152.5°	97.1	97.7	96.5	95.3	109.6	107.3	103.7	107.3	106.7	106.1	103.7
155°	92.4	92.4	91.2	91.8	101.3	98.9	96.5	98.9	97.7	95.9	93.6
157.5°	85.2	85.8	85.8	87.6	93.6	89.4	87.0	88.2	87.0	85.8	85.8
160°	80.4	80.4	81.0	83.4	87.0	82.8	81.0	81.6	81.0	79.8	80.4
162.5°	78.7	78.7	79.3	80.4	81.0	78.7	76.9	76.9	76.9	76.9	78.7
165°	77.5	77.5	77.5	78.1	78.1	76.3	75.7	76.3	76.9	77.5	79.8
167.5°	79.8	79.8	79.8	79.8	79.3	78.1	77.5	78.1	78.7	79.3	81.0
170°	83.4	82.8	82.8	82.2	81.6	80.4	79.8	79.3	79.3	79.8	80.4
172.5°	85.8	85.8	85.2	85.2	84.6	83.4	82.2	81.6	81.6	81.6	81.6
175°	88.8	88.8	88.8	88.8	88.2	87.0	86.4	85.2	85.2	85.2	85.2
177.5°	92.4	92.4	92.4	92.4	91.2	90.0	88.8	87.6	87.6	87.6	87.0
180°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	42.9	42.3	40.5	39.9	39.3	38.1	36.9	36.3	35.8	35.8	36.3
5°	57.2	56.6	56.6	54.8	53.0	50.1	48.9	48.9	49.5	50.1	51.2
7.5°	72.1	73.3	74.5	71.5	66.1	59.0	54.8	56.0	59.0	61.4	61.4
10°	83.4	83.4	87.6	84.0	75.1	66.1	60.2	59.0	59.6	60.2	60.8
12.5°	99.5	99.5	97.1	87.6	78.7	69.7	65.0	63.8	63.8	61.4	60.8
15°	111.4	107.9	99.5	90.6	82.8	73.9	68.5	66.7	65.0	63.2	62.6
17.5°	118.6	112.0	100.7	92.4	84.6	77.5	72.1	68.5	66.7	67.3	67.3
20°	126.9	119.8	109.6	100.7	91.2	81.6	75.1	69.7	67.9	68.5	67.9
22.5°	133.5	126.3	116.2	106.1	95.9	85.8	78.1	71.5	69.1	69.7	69.7
25°	141.2	135.3	124.5	112.6	100.1	90.6	82.8	75.1	71.5	70.9	70.9
27.5°	149.0	144.8	133.5	119.2	106.1	94.7	87.0	78.1	73.9	72.1	72.1
30°	159.1	154.3	143.0	125.7	111.4	100.7	92.4	82.8	76.9	73.9	73.3
32.5°	175.2	169.8	156.1	137.6	117.4	106.7	97.7	87.0	79.3	75.7	75.1
35°	227.6	219.3	197.8	176.4	143.6	119.2	104.3	90.6	81.6	76.9	76.3
37.5°	260.4	240.1	211.5	197.2	161.5	146.0	125.7	103.7	85.2	79.3	78.1
40°	313.4	285.4	249.7	221.7	157.3	159.7	147.2	129.3	101.3	83.4	81.6
42.5°	358.1	323.0	268.7	232.4	157.9	166.8	157.3	142.4	121.6	98.9	95.3
45°	441.6	396.3	312.2	249.7	162.1	177.6	165.7	150.2	131.7	116.2	114.4
47.5°	596.5	535.1	390.3	278.3	189.5	206.2	184.7	164.5	147.8	129.9	126.9
50°	816.4	743.1	480.3	300.9	236.6	271.7	233.0	199.0	180.0	166.8	165.1
52.5°	1069.6	992.7	546.4	342.6	293.8	352.8	308.1	268.7	243.7	243.7	247.3
55°	1364.0	1287.1	599.5	400.4	364.1	442.1	393.9	361.7	349.8	400.4	414.1
57.5°	1656.0	1558.2	635.2	459.4	446.3	547.0	489.2	461.8	483.9	634.0	680.5
60°	1922.3	1760.8	663.2	515.4	516.6	630.4	587.5	585.8	619.7	811.6	870.6
62.5°	2076.1	1856.2	661.4	547.6	557.8	682.3	646.5	656.1	675.1	841.4	886.1
65°	2181.5	1901.5	647.7	561.9	575.0	700.8	656.1	640.0	627.5	744.9	787.8
67.5°	2108.8	1795.4	616.7	541.1	564.3	673.9	615.0	569.1	544.6	604.2	633.4
70°	1766.2	1497.5	545.8	486.8	508.3	567.9	511.3	466.0	440.4	472.5	486.2
72.5°	1337.8	1139.3	492.2	455.3	445.7	469.6	415.9	365.3	349.8	370.6	373.6
75°	1065.4	891.4	452.9	411.8	374.2	397.5	331.9	270.5	261.6	261.6	256.8
77.5°	799.1	660.8	386.1	320.6	275.9	314.0	247.3	188.3	176.4	174.0	167.4
80°	535.7	449.9	259.8	212.7	198.4	233.0	175.8	138.2	138.8	138.2	130.5
82.5°	374.2	347.4	210.9	185.3	169.8	183.5	159.1	132.9	131.7	132.9	124.5
85°	331.9	318.2	204.4	191.3	175.2	177.0	152.5	125.7	126.3	128.7	121.6
87.5°	318.8	303.3	205.0	184.7	171.0	163.9	138.2	116.2	119.8	122.2	116.2
90°	287.2	271.7	188.3	166.8	152.5	142.4	122.2	110.2	115.0	117.4	112.0
92.5°	249.1	233.0	156.7	147.2	143.6	143.6	128.1	117.4	120.4	121.6	116.8
95°	214.5	199.0	139.4	129.3	126.3	126.9	114.4	105.5	107.3	106.7	103.1
97.5°	173.4	163.9	121.6	115.0	112.0	110.8	102.5	95.9	99.5	101.9	98.9
100°	153.1	148.4	117.4	112.6	108.5	107.9	100.7	96.5	99.5	103.1	100.7
102.5°	143.0	139.4	112.0	105.5	102.5	101.3	96.5	91.8	94.7	98.3	96.5
105°	134.7	129.3	107.3	101.3	97.1	96.5	91.8	85.8	87.6	92.4	91.2
107.5°	127.5	123.9	106.7	100.1	94.7	94.7	89.4	84.6	85.2	87.0	87.0
110°	133.5	129.3	110.8	106.1	98.9	96.5	95.3	91.8	88.8	87.6	87.6



REPORT NUMBER: P856116
 CATALOG NUMBER: FFX-CLB-40-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	165.1	157.3	138.8	133.5	121.6	113.2	105.5	98.3	93.6	91.8	90.6
115°	194.9	185.9	163.9	150.2	134.1	121.6	110.8	103.1	95.9	93.6	95.9
117.5°	200.8	177.0	143.0	131.7	122.2	114.4	108.5	102.5	97.1	98.9	97.1
120°	199.0	169.8	144.2	160.3	144.2	126.3	112.0	112.0	110.2	101.3	103.1
122.5°	306.3	286.0	255.0	245.5	200.2	182.9	156.1	133.5	111.4	98.9	93.0
125°	419.5	399.8	352.2	315.8	270.5	222.9	171.0	131.7	103.1	91.2	93.0
127.5°	421.9	404.0	358.7	297.3	237.8	190.7	142.4	116.8	100.7	93.0	91.8
130°	328.9	311.6	272.9	225.8	188.3	157.3	128.1	105.5	91.2	85.2	83.4
132.5°	284.8	269.3	233.6	190.7	163.3	138.8	114.4	91.8	82.2	78.1	78.7
135°	239.5	221.1	187.1	163.9	146.6	124.5	102.5	84.0	79.3	78.1	77.5
137.5°	203.2	190.1	166.3	148.4	131.7	112.0	90.0	78.7	76.9	78.1	76.9
140°	172.8	162.1	149.0	133.5	113.2	94.7	80.4	75.1	78.1	78.7	78.1
142.5°	149.0	138.2	124.5	103.7	94.2	85.8	82.2	78.1	78.1	77.5	76.9
145°	124.5	110.2	103.7	106.7	100.7	92.4	85.8	77.5	74.5	74.5	75.1
147.5°	143.0	128.1	119.8	113.2	101.9	90.0	79.8	72.1	70.9	73.3	72.7
150°	123.3	109.6	103.7	94.7	87.6	78.7	72.1	69.1	69.7	72.7	72.7
152.5°	98.3	88.8	85.2	82.8	79.3	73.9	70.3	69.1	70.3	71.5	71.5
155°	92.4	87.0	82.8	81.0	76.9	72.7	69.7	69.1	70.3	71.5	72.7
157.5°	86.4	84.6	79.3	77.5	73.9	72.1	70.3	70.3	70.9	72.1	73.3
160°	82.2	81.6	76.9	76.3	73.9	72.7	72.7	73.3	73.9	73.9	73.9
162.5°	79.8	79.8	78.1	76.9	76.3	75.7	77.5	78.1	77.5	77.5	77.5
165°	80.4	81.0	79.3	78.1	77.5	78.7	81.6	81.6	80.4	79.8	79.3
167.5°	81.0	81.6	80.4	79.8	79.8	81.0	82.2	81.6	81.0	80.4	79.8
170°	80.4	81.0	81.0	81.6	81.6	81.6	82.8	82.8	81.6	81.0	81.0
172.5°	81.6	82.2	82.8	83.4	84.0	83.4	84.0	84.0	84.0	84.0	84.6
175°	85.2	85.2	85.8	85.8	85.2	85.8	85.8	85.8	86.4	87.6	87.6
177.5°	87.0	87.0	86.4	86.4	85.8	86.4	86.4	86.4	86.4	87.0	86.4
180°	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2

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: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

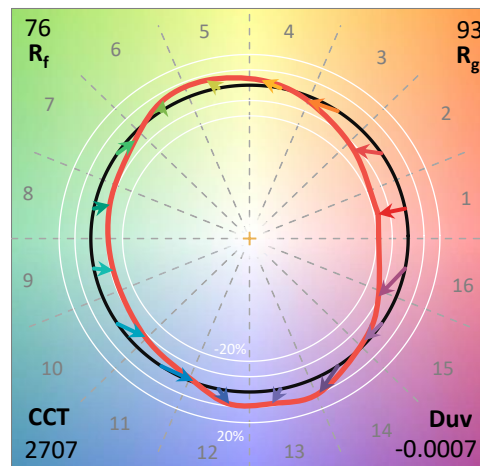
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-3
 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-100-727-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2707
 CIE u': 0.2624
 CIE v': 0.5261
 Duv: -0.0007
 CIE x: 0.4580
 CIE y: 0.4082
 CIE z: 0.1338
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 584
 Purity: 59.99901
 Rf: 75.5
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions

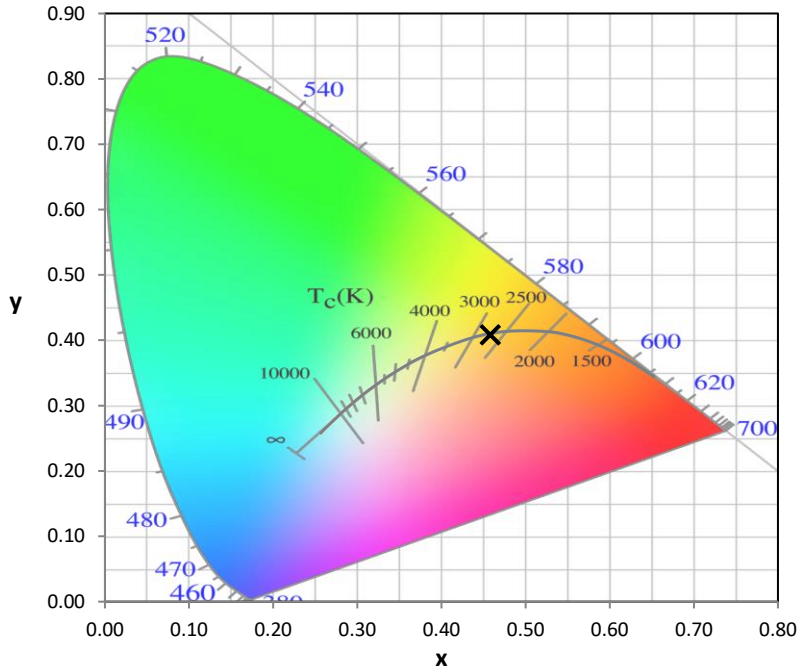
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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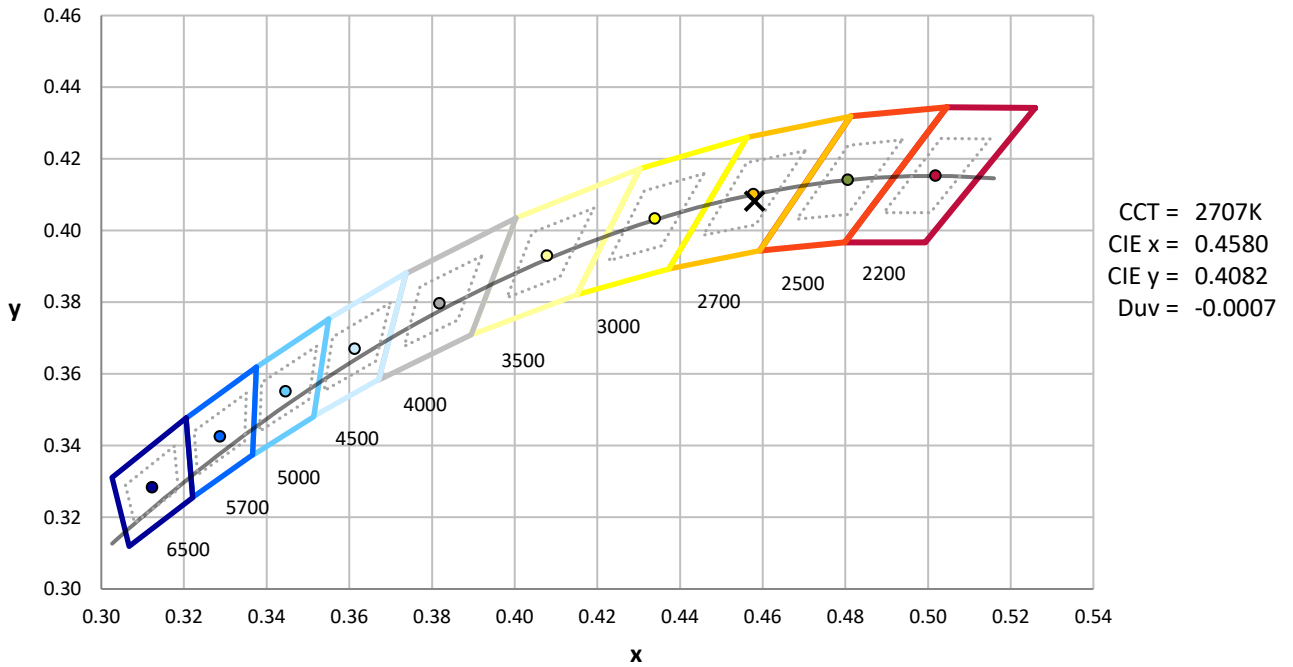
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



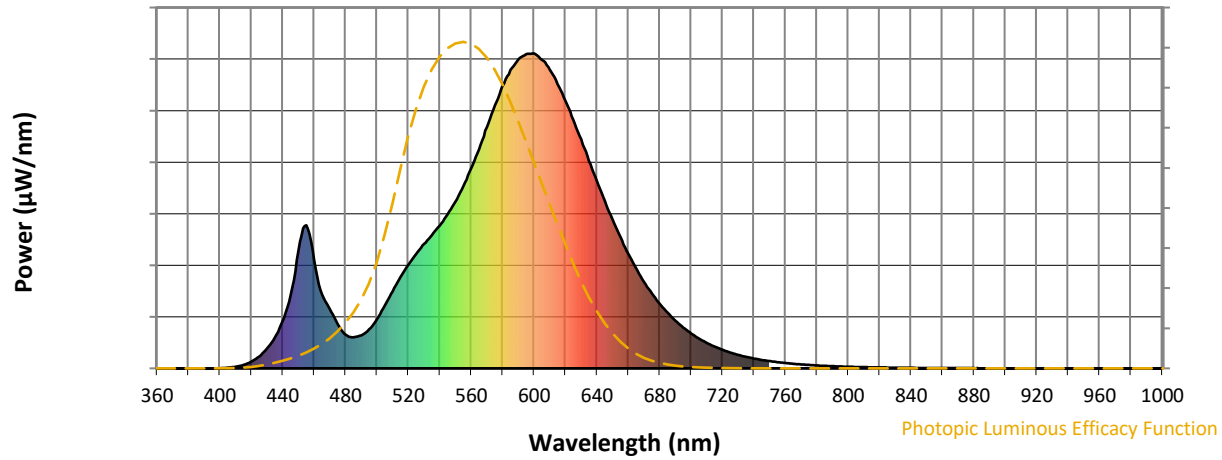
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

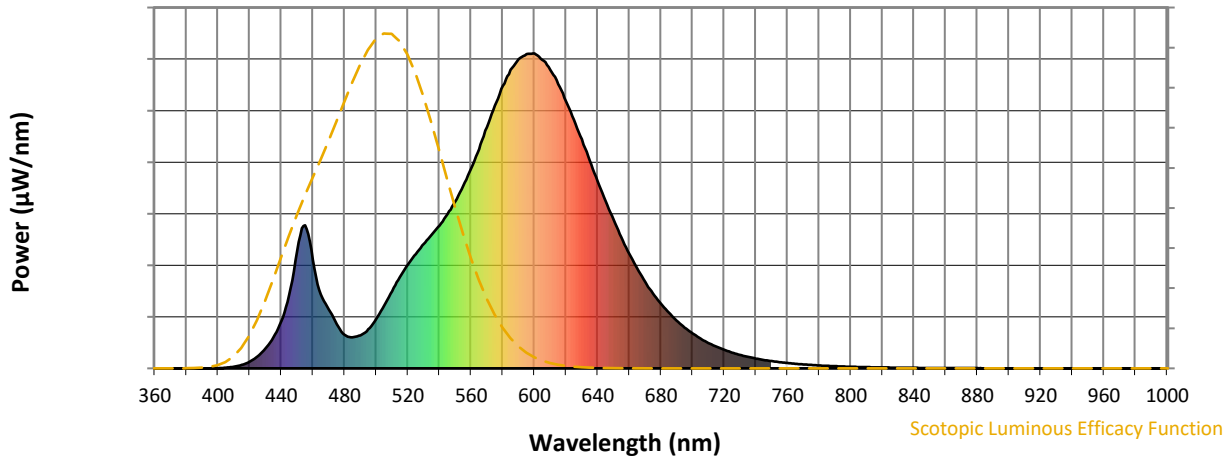


Photopic Lumens: NR

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



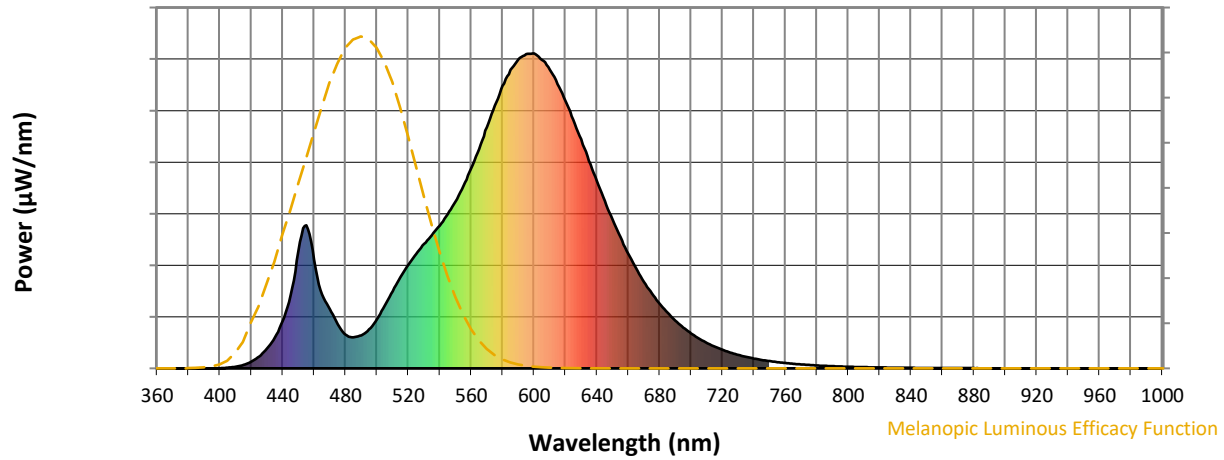
Scotopic Lumens: NR

S/P: 1.12

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

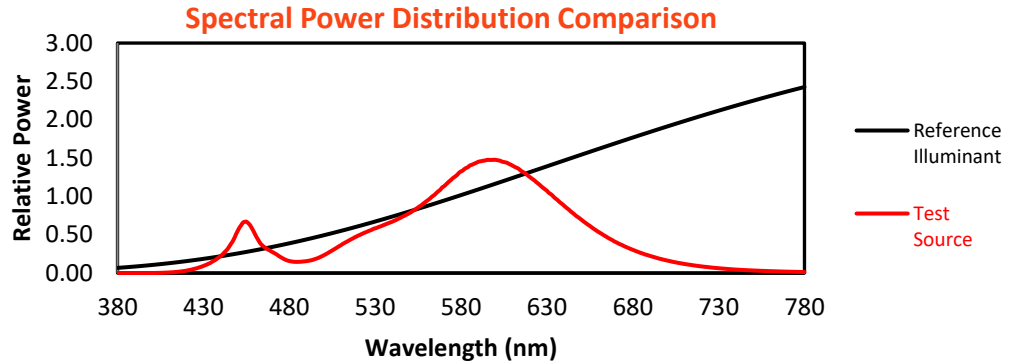
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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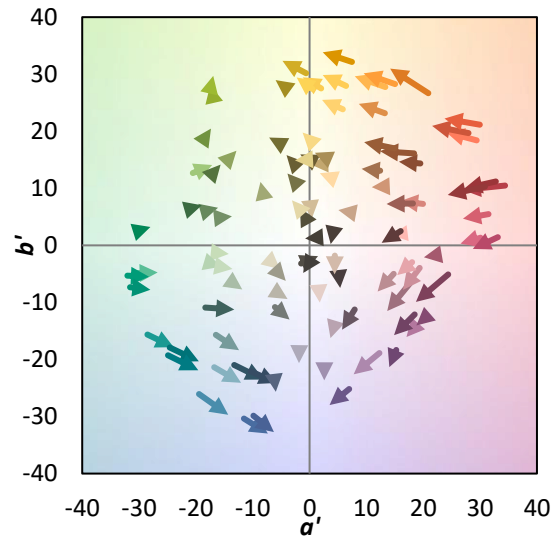
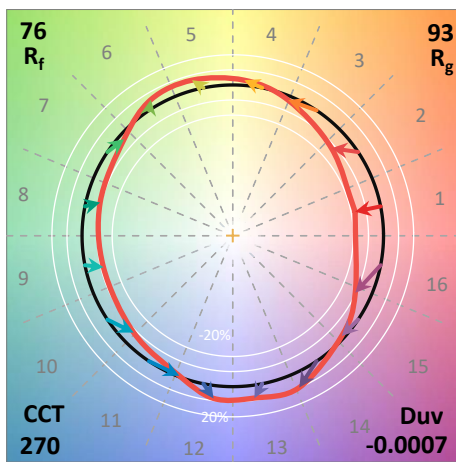
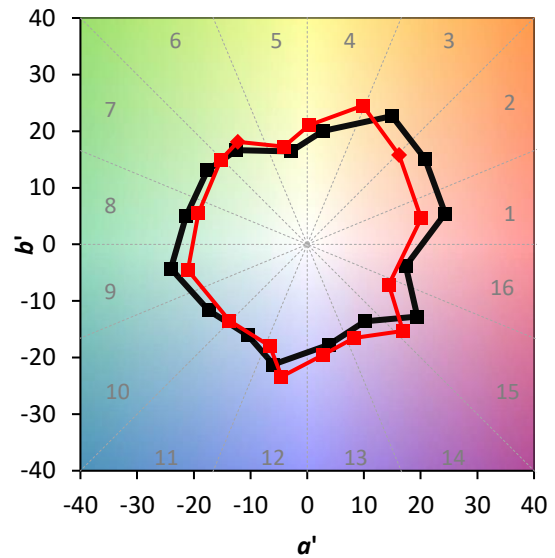
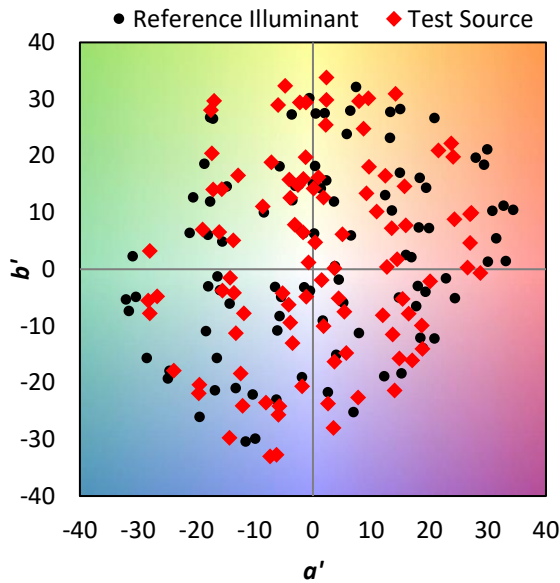
TM-30-18

Summary

$R_f = 75.5$
 $R_g = 92.5$
 CIE $R_a = 71.3$
 $R_9 = -34.9$



Color Vector Graphics

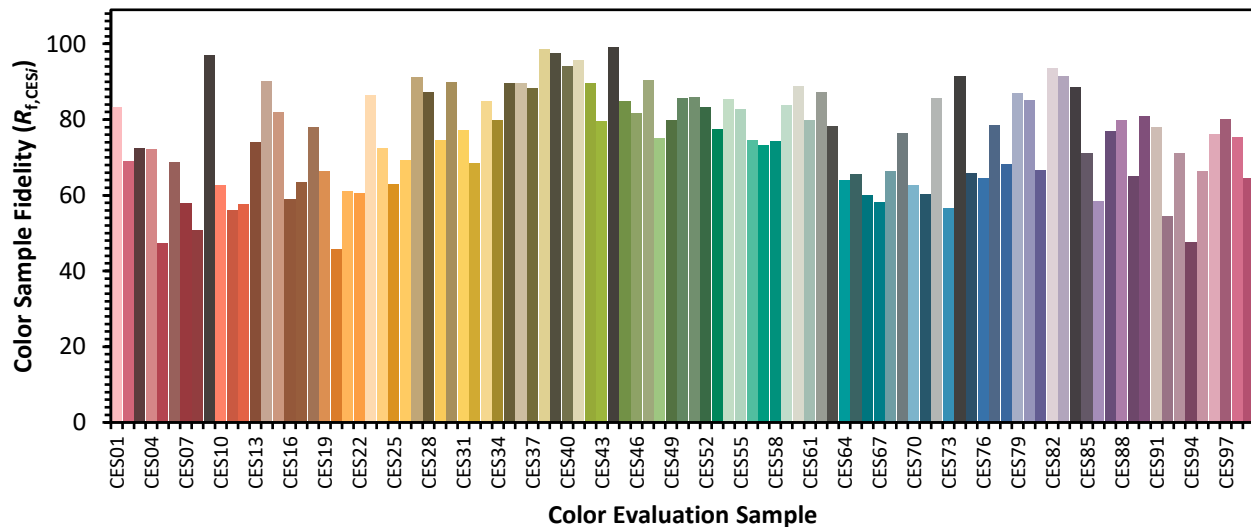


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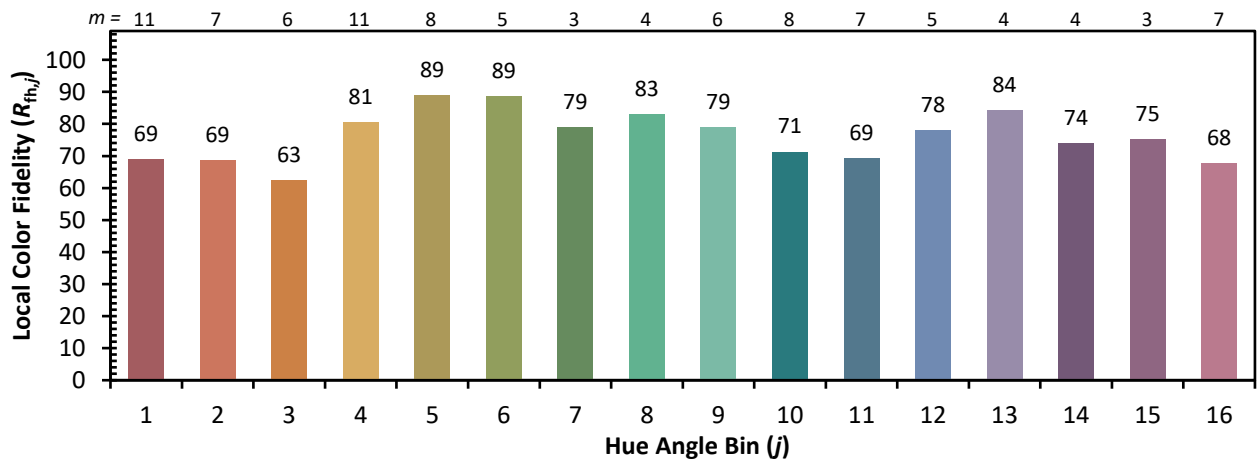
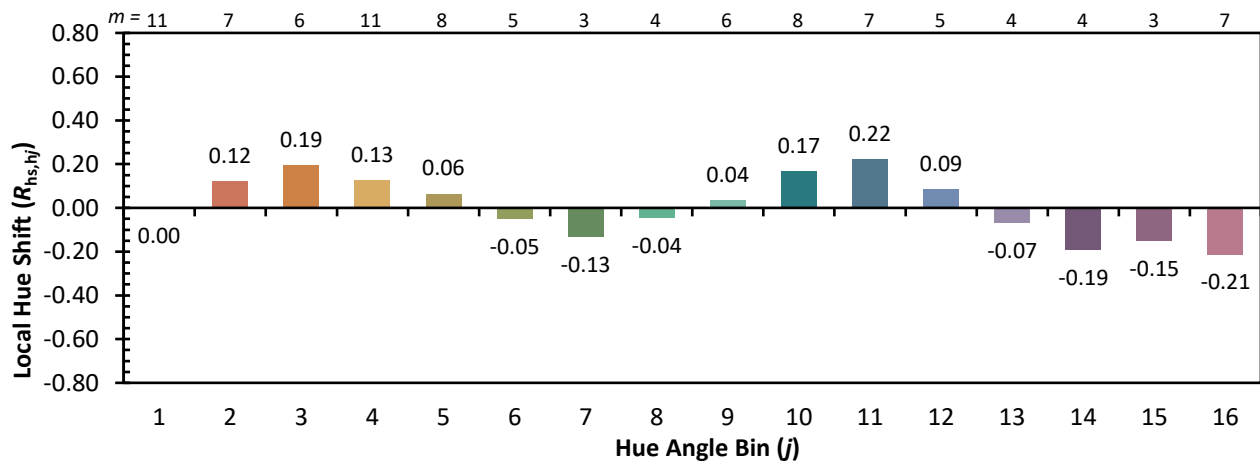
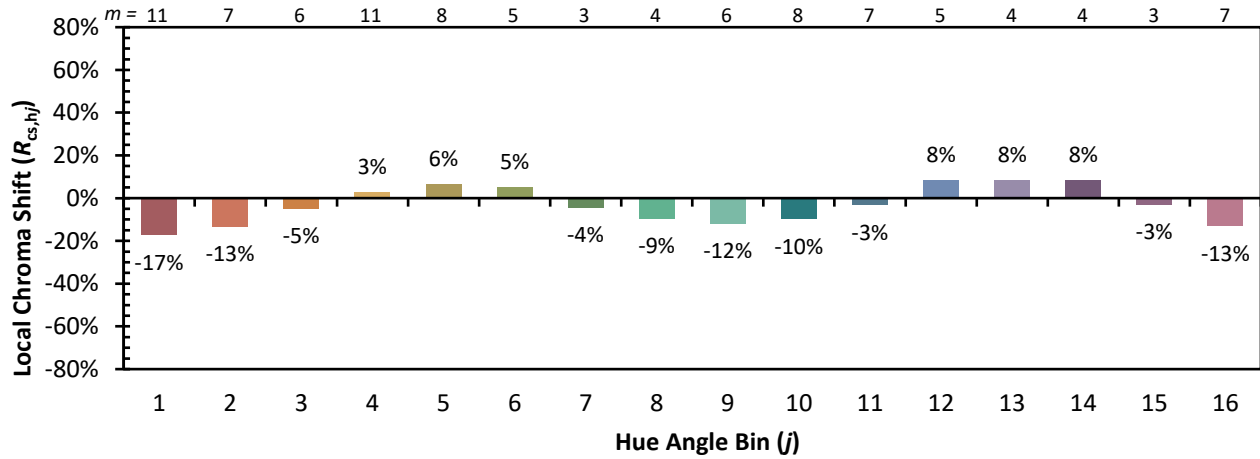
TM-30-18

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

CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



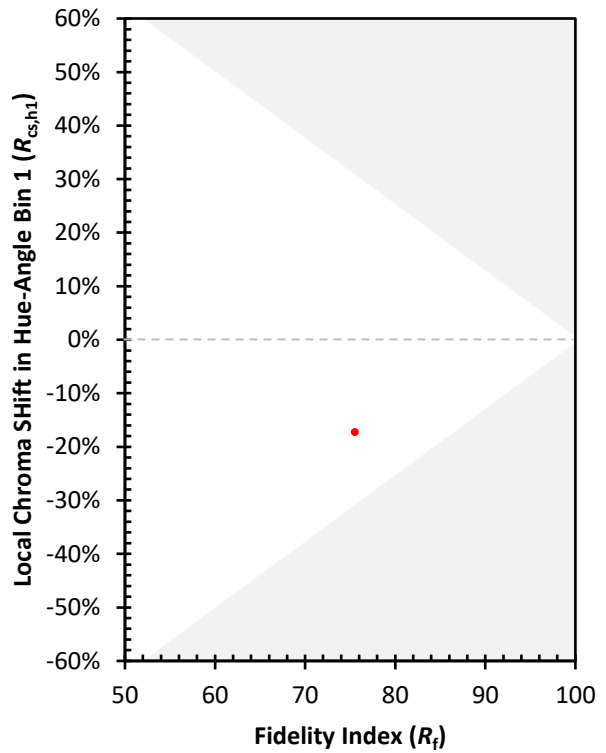
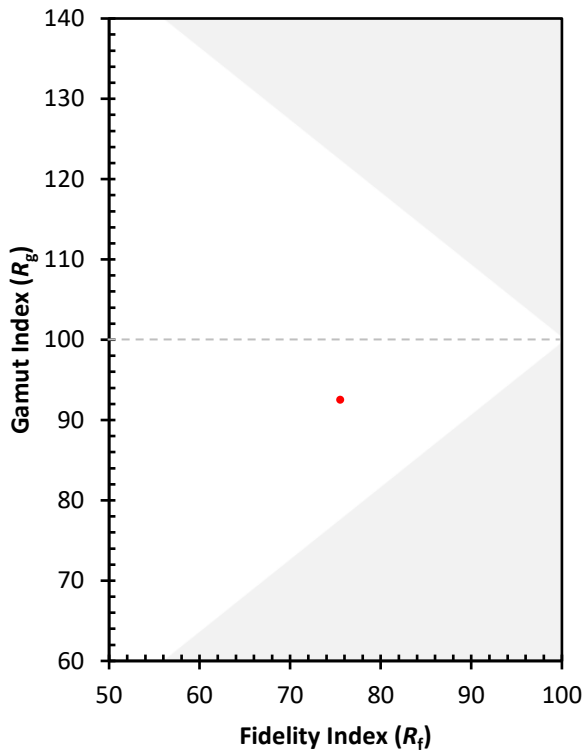
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)