

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: P856215

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856215
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-730-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

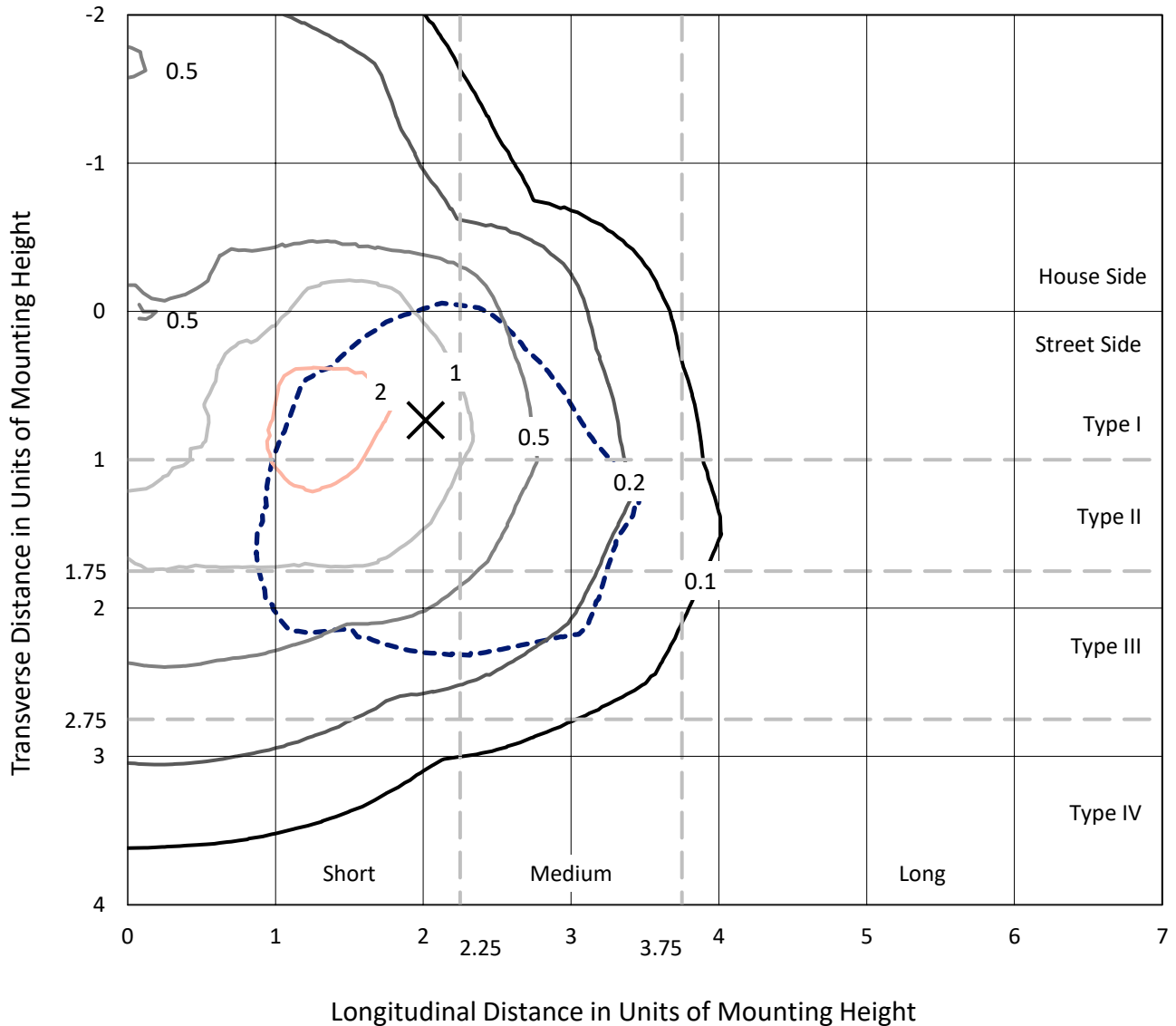
Lumens per Lamp: N/A
Luminaire Lumens: 6124.2 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G3

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

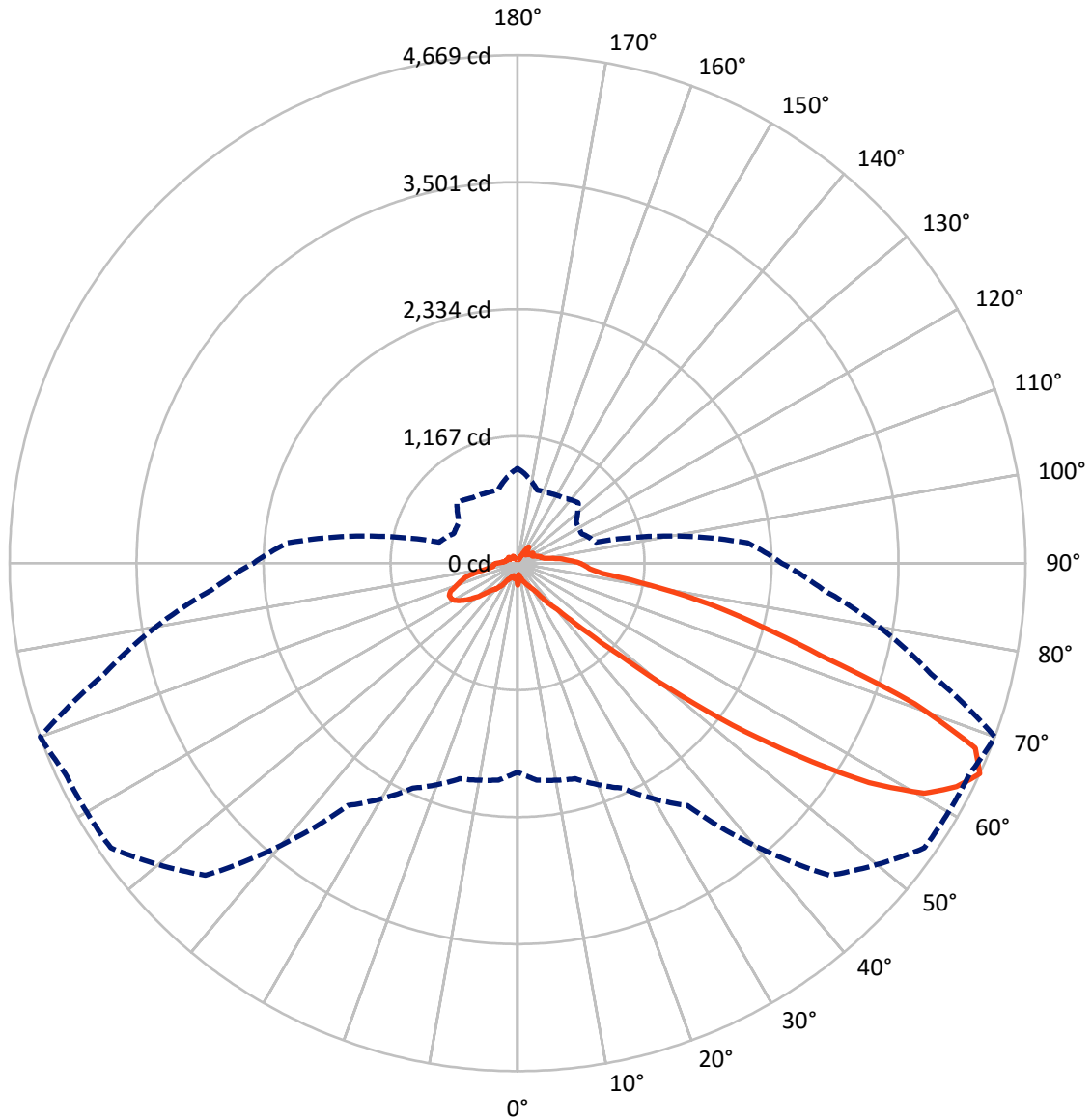
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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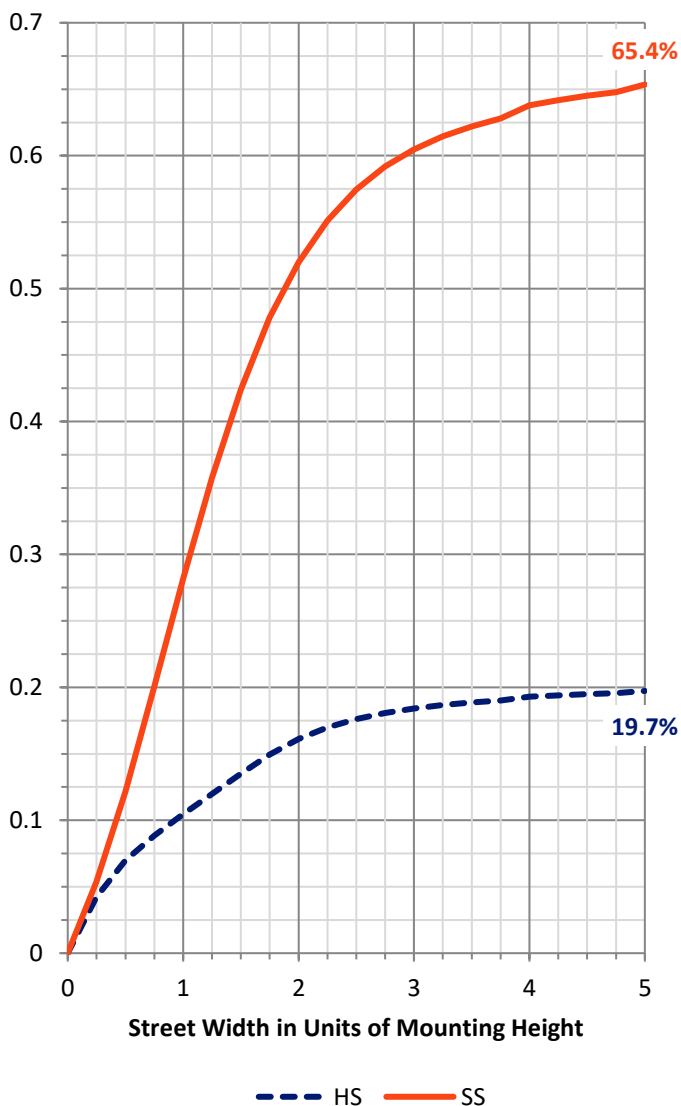
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1256.1	235.3	1491.4
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	4141.9	490.9	4632.8
	% Fixture	67.6	8.0	75.6
Total	Lumens	5398.0	726.2	6124.2
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.2
10°-20°	41.0	0.7
20°-30°	82.7	1.3
30°-40°	174.9	2.9
40°-50°	407.8	6.7
50°-60°	1215.4	19.8
60°-70°	1947.5	31.8
70°-80°	1118.8	18.3
80°-90°	396.8	6.5
90°-100°	234.0	3.8
100°-110°	141.4	2.3
110°-120°	106.3	1.7
120°-130°	90.0	1.5
130°-140°	59.8	1.0
140°-150°	56.1	0.9
150°-160°	24.9	0.4
160°-170°	10.3	0.2
170°-180°	3.4	0.1
0°-90°	5398.0	88.1
0°-180°	6124.2	100.0



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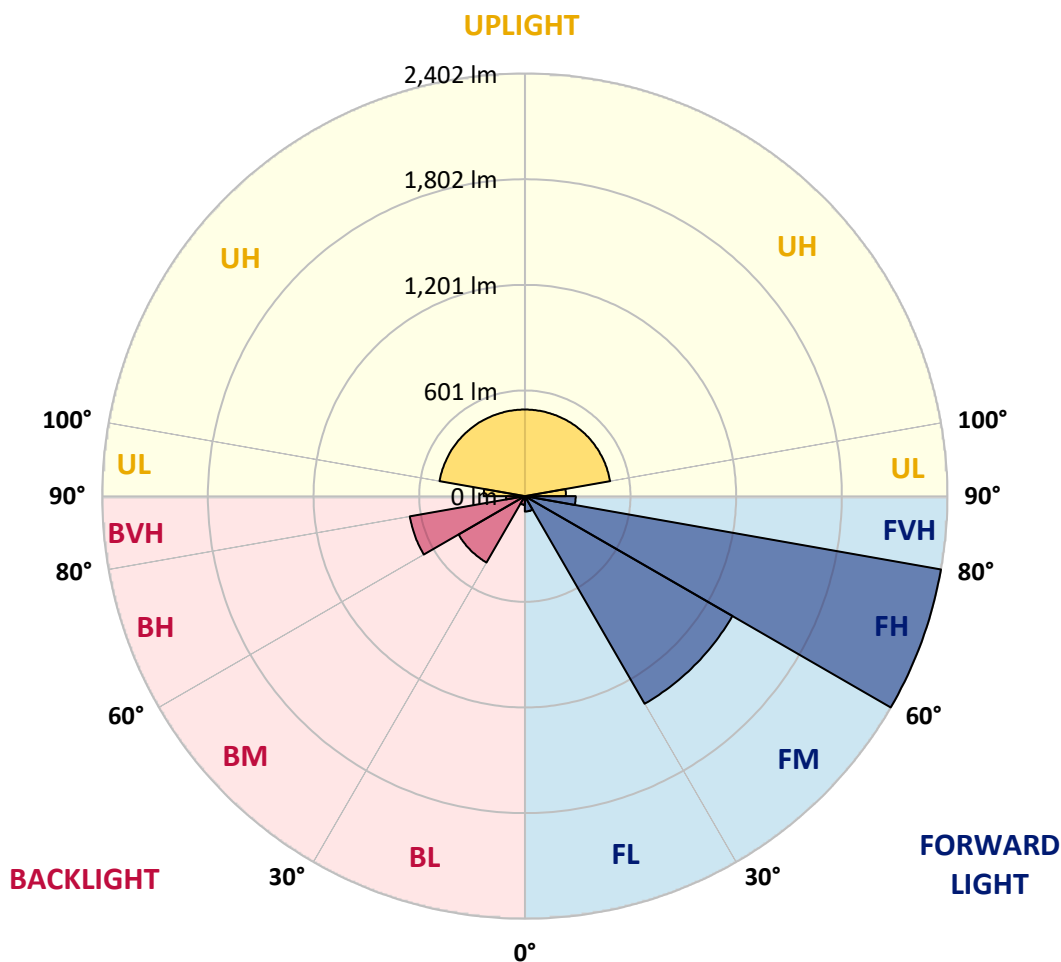
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	87.8	1.4			
FM (30°-60°)	1362.7	22.3			
FH (60°-80°)	2402.4	39.2			G2/5000
FVH (80°-90°)	289.0	4.7			G3/500
BL (0°-30°)	48.9	0.8	B0/110		
BM (30°-60°)	435.5	7.1	B1/1000		
BH (60°-80°)	663.9	10.8	B2/1000		G2/1000
BVH (80°-90°)	107.7	1.8			G2/225
UL (90°-100°)	234.0	3.8		U3/500	
UH (100°-180°)	492.2	8.0		U3/500	

BUG Rating: B2-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1
2.5°	169.4	168.1	171.3	173.9	177.2	172.6	164.9	172.6	175.2	183.0	188.9
5°	144.1	144.7	148.0	155.1	161.6	160.3	140.2	114.2	106.4	103.2	103.8
7.5°	142.8	142.1	140.2	139.5	143.4	157.7	155.8	136.9	122.7	110.3	98.0
10°	150.6	152.5	154.5	154.5	151.9	142.8	142.1	140.8	135.6	129.8	122.0
12.5°	186.3	188.9	190.8	184.3	175.9	166.8	159.7	148.0	142.8	139.5	133.7
15°	225.2	227.8	224.6	212.2	197.3	180.4	173.9	174.6	167.5	159.0	146.7
17.5°	246.0	244.7	231.1	216.8	205.1	192.1	183.0	177.2	174.6	171.3	159.0
20°	233.0	229.8	221.3	215.5	214.2	207.0	201.2	196.0	192.8	185.6	170.7
22.5°	223.3	223.3	222.0	220.7	228.5	225.2	222.6	215.5	210.9	201.8	179.8
25°	235.6	235.6	236.2	234.3	244.7	244.7	244.7	236.9	231.1	218.1	191.5
27.5°	253.1	252.5	254.4	253.1	262.2	264.2	268.1	262.2	253.8	238.2	204.4
30°	271.9	271.9	273.9	275.2	284.3	288.8	293.4	290.8	280.4	261.6	226.5
32.5°	292.1	291.4	297.3	303.7	308.9	317.4	319.3	325.8	315.4	293.4	259.0
35°	321.3	323.2	338.8	352.4	367.4	372.5	381.6	406.9	396.6	366.7	327.1
37.5°	464.7	455.0	451.1	435.5	433.6	464.1	475.1	499.1	478.3	438.1	377.7
40°	492.6	480.9	475.7	460.8	466.0	529.0	517.9	604.2	553.6	489.4	450.4
42.5°	464.1	462.1	523.1	534.8	528.3	628.3	606.8	766.5	712.6	563.4	519.9
45°	560.1	554.9	580.9	601.7	617.9	797.7	784.7	952.8	929.4	686.0	643.2
47.5°	632.2	627.0	656.8	726.3	821.0	1015.7	1091.7	1345.4	1266.3	943.7	846.3
50°	847.6	844.4	924.9	999.5	1155.9	1443.4	1651.8	1925.7	1809.5	1318.2	1139.1
52.5°	1051.4	1061.8	1155.9	1299.4	1464.9	1984.1	2281.3	2473.5	2472.2	1716.7	1462.3
55°	1197.5	1232.5	1343.5	1602.5	1832.2	2463.7	2864.8	3007.0	3126.4	2290.4	1780.9
57.5°	1481.1	1542.1	1648.5	1904.9	2201.5	3044.0	3616.4	3593.0	3807.9	2885.6	2127.5
60°	1772.5	1843.9	1879.6	2115.2	2504.6	3602.8	4133.0	4078.5	4294.6	3403.5	2492.3
62.5°	1863.4	1933.5	1968.5	2224.9	2723.3	3919.5	4371.2	4392.6	4527.0	3772.8	2708.4
65°	1920.5	2001.0	2051.6	2282.6	2718.8	4057.7	4564.0	4584.1	4668.5	3931.8	2820.0
67.5°	1910.1	2000.3	2065.2	2272.3	2568.2	3942.9	4516.0	4425.1	4538.0	3818.3	2702.6
70°	1703.7	1782.2	1847.1	2006.8	2143.8	3321.7	3907.2	3757.2	3874.1	3190.0	2231.4
72.5°	1392.2	1424.6	1481.1	1556.4	1624.5	2464.4	2980.4	2851.8	2919.3	2393.0	1671.9
75°	1143.6	1137.1	1187.7	1242.2	1220.8	1800.4	2357.9	2240.5	2303.4	1817.3	1333.8
77.5°	847.6	844.4	917.7	913.2	880.7	1246.8	1869.2	1784.2	1792.6	1342.2	998.9
80°	509.5	519.2	590.6	604.9	566.6	782.1	1334.4	1294.2	1233.8	917.1	700.3
82.5°	357.6	372.5	410.2	425.8	406.9	571.1	884.0	856.1	784.7	665.3	493.3
85°	364.8	367.4	371.9	373.2	364.8	512.7	686.0	670.4	665.9	557.5	406.9
87.5°	364.8	370.6	374.5	373.8	358.9	480.3	632.8	608.1	614.0	521.2	393.3
90°	327.1	337.5	336.8	338.8	326.5	434.2	573.7	553.6	561.4	469.9	357.6
92.5°	267.4	274.5	281.7	295.3	277.1	369.3	484.8	466.0	475.7	399.8	304.4
95°	248.6	255.1	259.6	266.8	248.6	328.4	429.0	406.3	410.2	339.4	257.7
97.5°	201.2	205.1	210.3	211.6	198.6	252.5	326.5	307.0	309.6	263.5	202.5
100°	168.7	172.0	176.5	176.5	168.1	209.0	258.3	247.9	246.6	215.5	171.3
102.5°	159.7	161.0	168.1	166.8	158.4	192.8	233.7	227.2	227.8	199.9	161.0
105°	157.1	157.1	164.2	161.0	153.8	183.7	218.7	216.8	216.1	190.2	154.5
107.5°	154.5	154.5	161.6	158.4	152.5	173.3	205.7	199.3	198.6	181.1	146.0
110°	144.1	146.0	153.8	149.9	145.4	163.6	188.9	184.3	184.3	170.7	139.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	127.9	129.2	136.3	133.1	129.8	145.4	167.5	161.6	162.3	153.2	130.5
115°	119.4	121.4	128.5	124.0	121.4	135.6	155.1	151.2	152.5	144.1	123.3
117.5°	120.1	120.7	125.9	126.6	121.4	133.1	143.4	144.7	146.7	141.5	125.3
120°	146.0	142.8	145.4	142.1	139.5	153.2	165.5	166.8	166.2	156.4	124.6
122.5°	147.3	140.8	148.0	143.4	140.8	155.8	169.4	172.6	169.4	161.0	127.2
125°	117.5	119.4	120.1	121.4	124.0	140.2	147.3	148.0	148.6	146.0	123.3
127.5°	103.2	102.5	99.3	100.0	105.8	120.1	125.3	129.2	126.6	125.3	111.0
130°	98.7	100.0	99.3	99.3	102.5	113.6	117.5	123.3	121.4	118.8	101.2
132.5°	90.9	92.2	98.0	105.1	103.8	107.7	109.0	114.9	115.5	115.5	101.9
135°	86.3	87.6	92.2	101.2	98.7	100.6	100.0	105.1	105.8	106.4	96.1
137.5°	88.3	88.9	86.3	87.6	89.6	98.0	100.6	105.8	105.8	103.2	89.6
140°	92.8	92.8	87.0	85.0	88.9	101.9	107.1	115.5	114.2	109.7	92.8
142.5°	85.7	87.0	90.2	94.1	102.5	138.2	138.2	154.5	159.7	161.0	112.3
145°	111.6	112.3	113.6	115.5	131.8	181.1	164.9	176.5	181.1	185.6	135.0
147.5°	128.5	129.8	128.5	123.3	138.2	155.1	147.3	152.5	157.7	159.0	135.6
150°	100.6	99.3	98.7	98.0	114.2	119.4	112.9	112.3	116.2	119.4	105.1
152.5°	73.3	72.7	72.0	71.4	85.7	82.4	77.9	77.9	79.2	79.8	74.0
155°	64.9	64.3	63.0	63.6	72.7	69.4	65.6	64.3	65.6	64.9	61.7
157.5°	53.2	51.9	51.9	54.5	59.1	55.2	52.6	50.6	51.3	50.6	51.3
160°	44.1	43.5	44.1	47.4	50.0	46.7	44.1	42.8	42.8	44.1	46.7
162.5°	39.6	38.9	39.6	40.9	42.2	38.9	37.0	37.0	37.6	40.2	45.4
165°	34.4	34.4	35.0	35.7	36.3	34.4	33.7	33.7	35.0	38.9	44.8
167.5°	33.1	33.1	33.1	33.1	33.1	32.5	31.8	33.7	35.0	37.0	40.9
170°	32.5	31.8	32.5	32.5	32.5	32.5	32.5	34.4	34.4	35.0	37.0
172.5°	33.1	33.1	33.1	33.7	35.0	35.7	35.0	36.3	35.7	35.7	35.7
175°	33.7	33.7	34.4	35.0	35.7	36.3	37.0	37.0	37.0	37.6	37.6
177.5°	33.7	33.7	34.4	35.0	35.7	34.4	33.1	32.5	31.8	31.8	31.8
180°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1
2.5°	183.7	167.5	144.7	154.5	184.3	178.5	148.6	130.5	131.8	144.7	146.0
5°	107.1	110.3	125.3	156.4	162.3	134.3	108.4	104.5	125.9	155.8	161.6
7.5°	96.7	96.7	109.0	151.9	170.7	140.2	105.8	95.4	111.6	136.3	140.2
10°	116.8	112.9	114.2	129.8	136.9	112.3	94.8	90.2	99.3	102.5	101.2
12.5°	131.8	134.3	146.7	143.4	112.3	91.5	85.7	85.0	90.2	93.5	92.8
15°	141.5	136.9	127.9	117.5	107.1	95.4	87.0	81.8	75.9	73.3	73.3
17.5°	150.6	141.5	125.3	115.5	105.1	96.7	88.9	81.1	78.5	79.2	79.2
20°	161.6	150.6	135.6	124.6	112.3	100.6	90.9	82.4	80.5	81.1	80.5
22.5°	170.0	160.3	144.7	130.5	117.5	104.5	94.8	86.3	83.7	83.1	83.1
25°	180.4	172.0	155.8	138.2	122.7	110.3	101.9	92.2	87.6	86.3	86.3
27.5°	194.1	186.9	168.7	149.9	131.8	117.5	108.4	98.0	91.5	88.9	88.3
30°	214.8	205.1	185.0	161.6	142.8	127.9	116.8	103.8	96.1	91.5	90.9
32.5°	246.0	233.7	207.0	177.8	155.1	139.5	125.9	109.7	100.0	94.8	94.1
35°	312.2	298.6	264.8	223.9	190.8	159.0	137.6	116.2	103.8	97.4	96.7
37.5°	353.7	329.1	288.2	251.2	210.9	192.1	164.9	136.3	109.0	100.6	99.3
40°	414.1	382.3	331.0	281.0	210.3	209.6	191.5	166.2	128.5	106.4	104.5
42.5°	458.9	418.0	353.7	297.9	212.2	218.1	202.5	180.4	152.5	124.0	120.7
45°	550.4	498.5	396.6	312.8	214.8	227.8	212.2	188.9	164.2	144.1	142.1
47.5°	721.7	649.7	479.6	341.4	244.0	260.3	232.4	205.1	181.1	161.0	156.4
50°	961.2	874.9	580.2	366.7	294.0	331.0	285.6	244.0	215.5	199.9	195.4
52.5°	1242.2	1145.5	643.2	406.3	354.4	418.0	368.0	319.3	281.7	284.3	281.7
55°	1555.7	1441.5	698.4	466.0	431.6	514.7	460.2	418.0	397.9	454.3	457.6
57.5°	1858.2	1736.2	732.8	529.0	517.9	626.3	562.7	532.9	540.6	706.1	745.1
60°	2147.0	1954.2	759.4	588.0	590.6	713.9	665.3	659.4	683.4	895.7	954.7
62.5°	2313.8	2065.9	758.1	626.3	636.1	767.8	725.0	728.2	746.4	926.8	976.1
65°	2427.4	2122.3	745.1	645.8	655.5	787.3	732.1	706.8	695.1	818.4	871.0
67.5°	2359.2	2013.3	713.9	628.9	641.9	756.1	687.3	623.7	603.6	670.4	701.6
70°	1994.5	1682.3	636.1	571.8	580.2	638.0	579.6	510.1	490.0	525.1	539.3
72.5°	1507.1	1291.6	570.5	528.3	508.2	527.7	470.5	397.9	393.3	412.1	414.7
75°	1204.0	1013.8	519.9	476.4	422.5	442.6	373.8	296.0	290.1	291.4	284.9
77.5°	907.3	754.2	437.4	375.1	320.0	353.1	277.8	204.4	194.7	190.8	183.7
80°	621.1	523.8	297.3	251.2	227.2	259.0	198.0	149.9	149.3	148.0	140.2
82.5°	440.7	404.3	242.7	213.5	192.8	203.8	172.0	140.2	136.9	137.6	129.2
85°	385.5	366.1	234.3	216.1	196.0	195.4	164.2	131.1	129.8	130.5	122.7
87.5°	368.7	347.2	229.1	206.4	186.9	177.2	144.7	115.5	118.8	120.7	113.6
90°	330.4	308.3	207.7	184.3	165.5	148.6	122.7	104.5	109.7	111.0	104.5
92.5°	278.4	255.7	161.6	148.0	138.9	136.3	114.9	99.3	103.2	103.8	98.7
95°	235.6	214.8	140.8	130.5	124.0	123.3	103.8	90.2	92.2	91.5	87.0
97.5°	189.5	174.6	123.3	113.6	106.4	102.5	88.9	78.5	81.1	82.4	79.2
100°	161.6	153.2	114.9	106.4	98.0	92.8	81.1	72.7	75.3	77.9	75.3
102.5°	151.9	145.4	112.9	103.8	94.8	88.3	77.2	68.1	69.4	72.7	70.7
105°	144.1	138.2	109.7	100.0	91.5	84.4	75.3	64.3	63.6	66.9	66.2
107.5°	135.6	130.5	107.7	96.1	87.0	80.5	72.0	61.7	59.1	61.0	60.4
110°	131.1	125.9	103.8	91.5	81.8	75.9	68.1	59.7	56.5	57.1	57.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	122.0	116.2	95.4	83.7	75.9	70.7	63.0	57.1	53.2	54.5	55.2
115°	116.2	108.4	87.6	79.2	70.7	66.2	61.7	56.5	51.9	51.9	52.6
117.5°	120.1	105.1	81.8	75.3	70.7	69.4	68.1	60.4	51.3	50.6	50.6
120°	114.9	105.8	88.9	87.0	82.4	78.5	70.1	59.7	50.0	48.7	48.7
122.5°	112.3	110.3	100.6	94.1	85.7	77.9	65.6	54.5	48.0	46.7	46.7
125°	111.0	109.0	97.4	85.0	74.0	66.2	58.4	51.3	47.4	45.4	45.4
127.5°	101.9	92.8	78.5	71.4	64.3	61.0	54.5	50.0	45.4	42.8	42.8
130°	94.1	85.7	73.3	65.6	59.7	57.1	52.6	48.0	43.5	40.9	40.2
132.5°	92.8	84.4	71.4	61.7	56.5	53.9	51.3	46.1	40.9	38.3	37.6
135°	86.3	76.6	63.6	58.4	55.2	53.2	51.3	44.8	39.6	37.0	37.0
137.5°	79.8	70.1	60.4	57.8	55.2	53.2	47.4	40.9	37.0	35.0	35.0
140°	80.5	69.4	61.7	59.7	55.8	50.0	44.8	40.2	37.0	34.4	33.7
142.5°	85.7	72.0	62.3	56.5	53.9	50.6	48.7	43.5	37.0	32.5	31.2
145°	94.1	77.9	70.1	67.5	63.0	57.1	50.0	40.2	33.7	29.9	29.2
147.5°	103.8	87.6	78.5	71.4	62.3	52.6	42.8	35.0	29.9	28.6	27.9
150°	90.2	74.6	67.5	57.8	50.0	42.2	35.0	31.2	28.6	27.9	27.9
152.5°	68.1	55.8	50.0	45.4	40.9	37.0	33.1	30.5	28.6	27.3	27.3
155°	59.1	52.6	46.7	42.2	37.6	33.7	30.5	29.2	27.3	27.3	26.6
157.5°	51.9	48.7	40.9	37.0	33.7	31.8	30.5	28.6	27.9	27.3	27.3
160°	47.4	45.4	37.6	34.4	32.5	31.2	31.2	29.9	27.9	27.3	27.3
162.5°	46.1	44.1	36.3	33.1	31.2	31.8	33.1	32.5	29.9	28.6	28.6
165°	45.4	44.1	37.0	32.5	31.2	31.8	35.0	35.7	32.5	30.5	29.9
167.5°	41.5	40.9	38.9	35.7	33.7	33.7	35.7	36.3	35.0	35.0	34.4
170°	37.6	37.6	38.3	38.9	37.6	35.7	34.4	34.4	36.3	38.3	38.9
172.5°	36.3	37.0	38.3	40.2	40.2	37.6	35.7	35.0	37.0	39.6	40.2
175°	38.3	38.9	39.6	39.6	38.3	37.6	37.0	36.3	37.6	40.2	40.9
177.5°	31.8	31.8	32.5	32.5	31.8	32.5	31.8	30.5	30.5	30.5	30.5
180°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

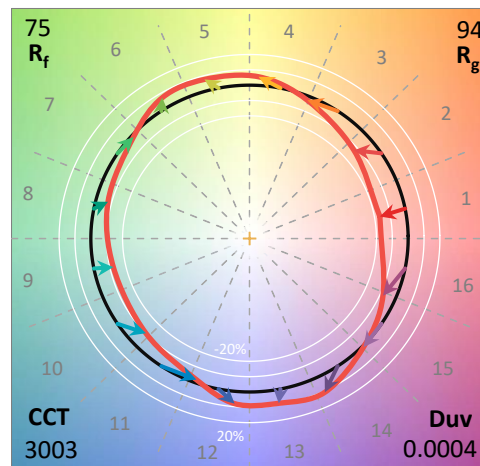
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra): 71.9
 R1: 68.2
 R2: 82.2
 R3: 93.9
 R4: 67.6
 R5: 67.2
 R6: 75.3
 R7: 77.6
 R8: 43.1
 R9: -33.7
 R10: 59.0
 R11: 62.4
 R12: 48.5
 R13: 70.8
 R14: 96.6
 R15: 60.0



Test Conditions

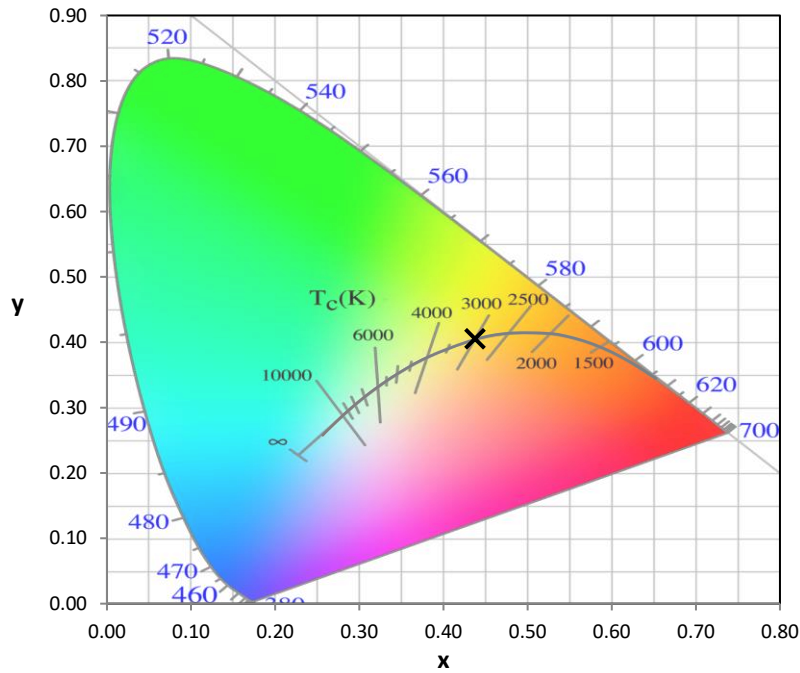
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

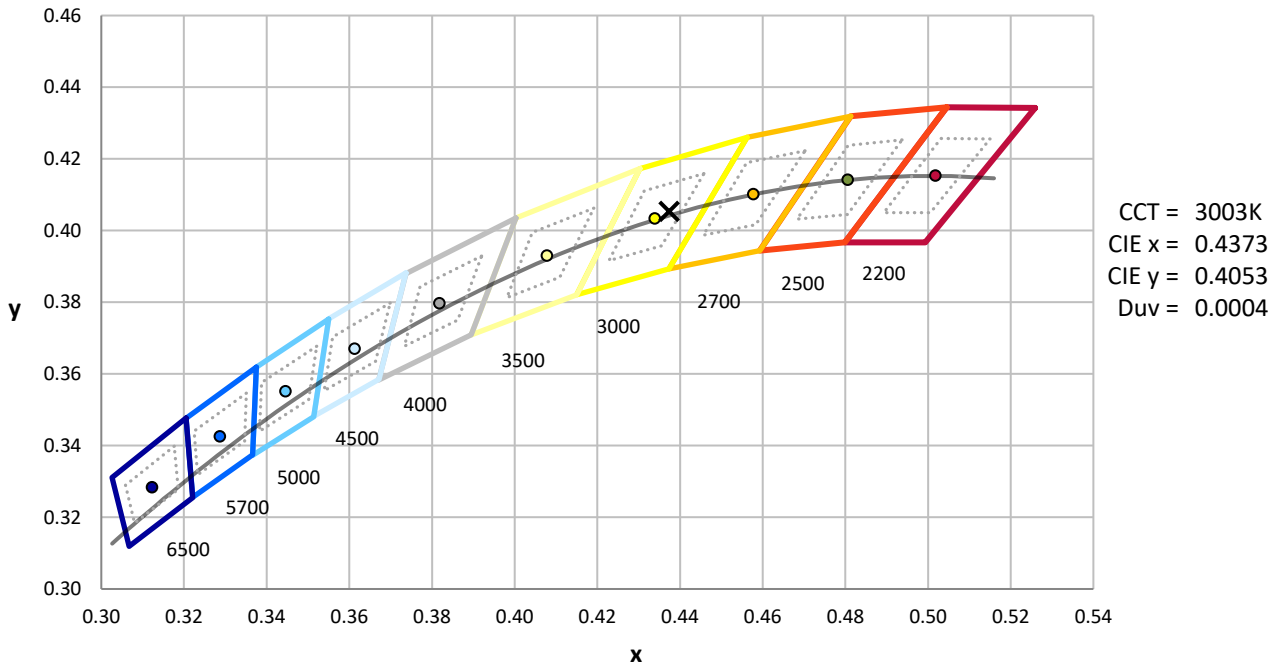
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



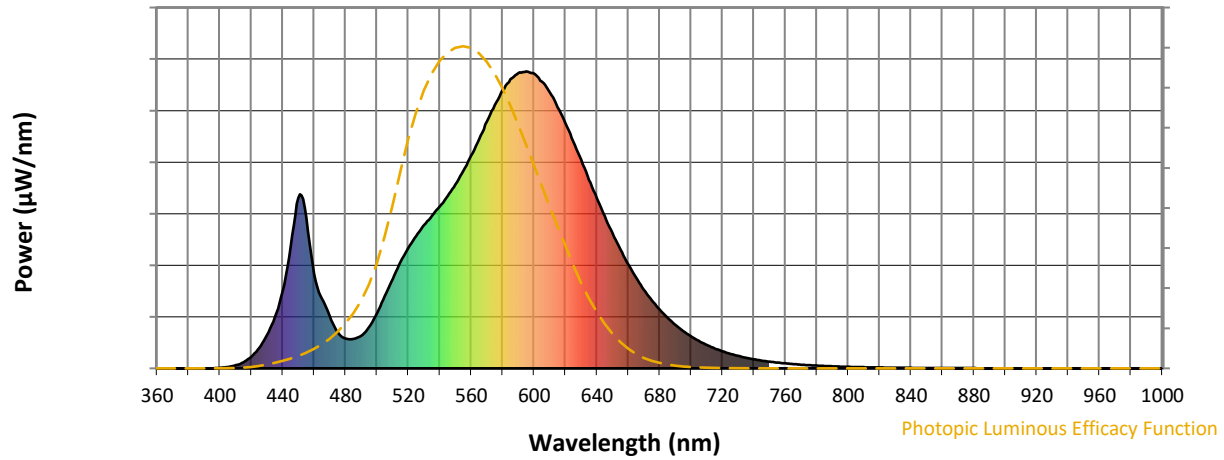
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

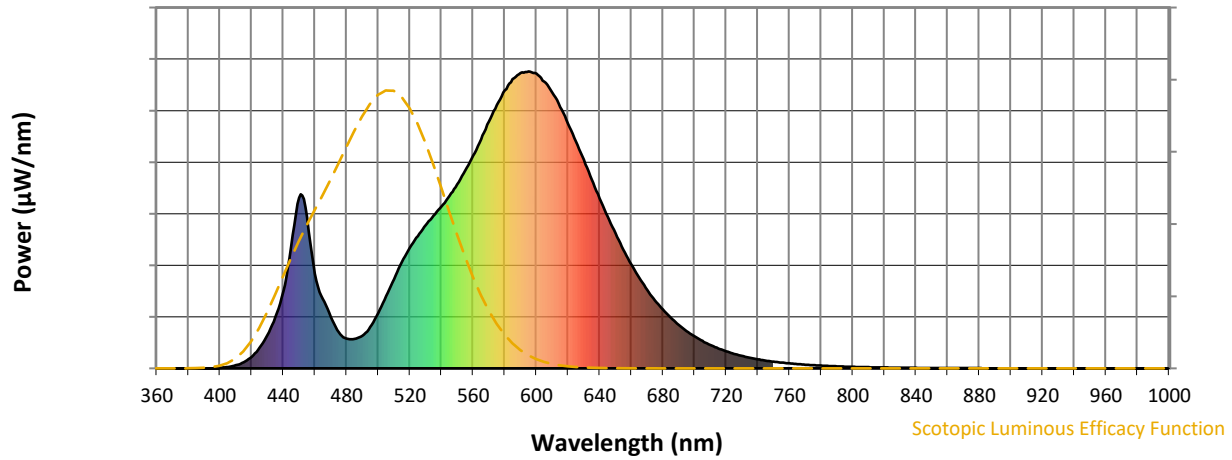


Photopic Lumens: NR

λ (nm)	Power W [^] /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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



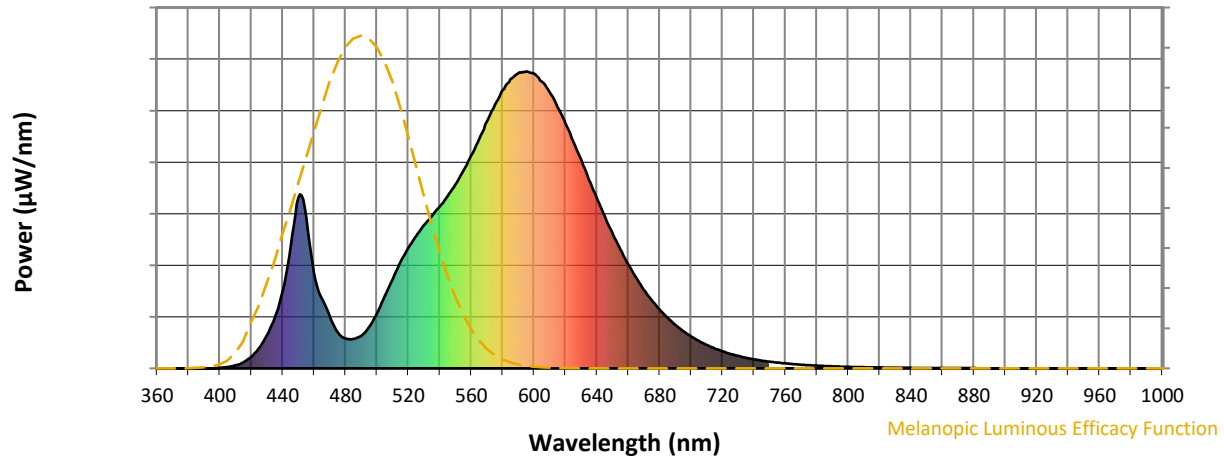
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

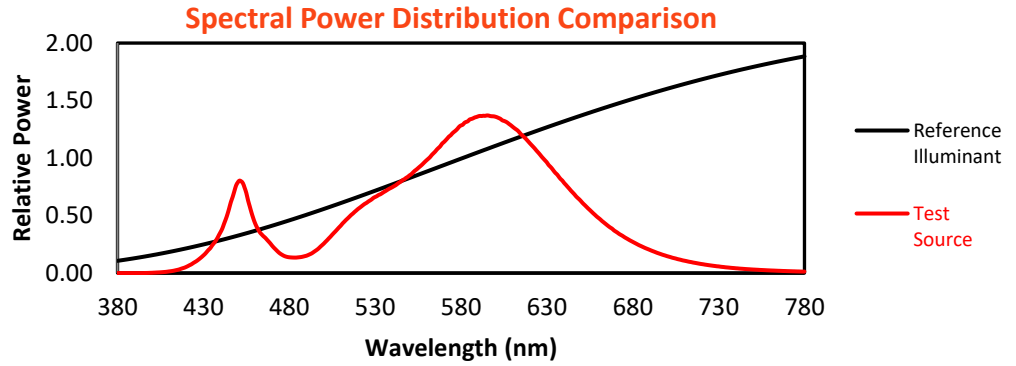
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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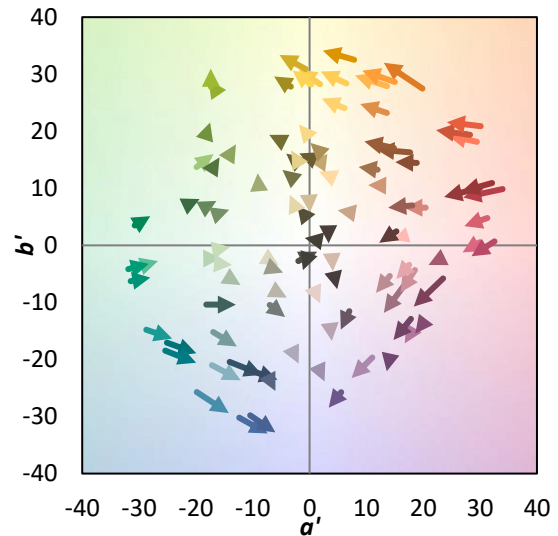
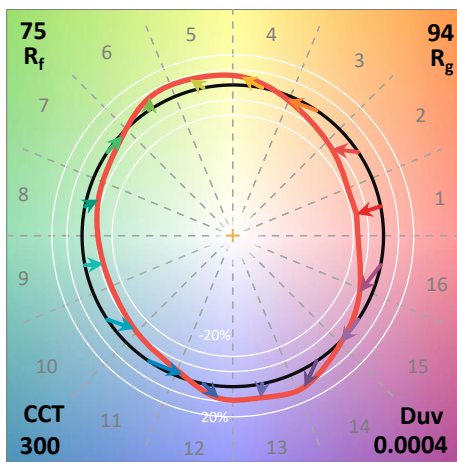
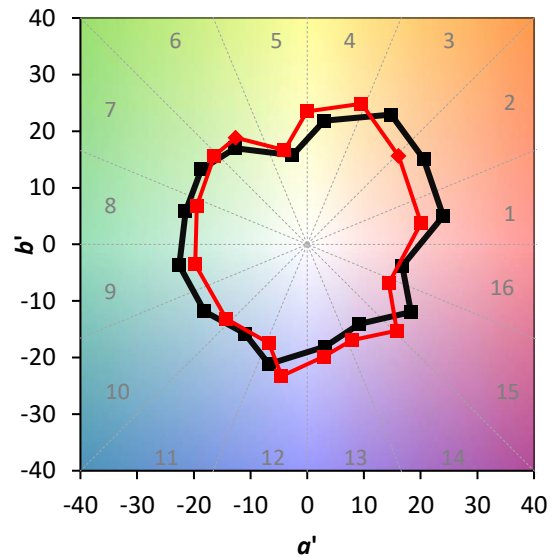
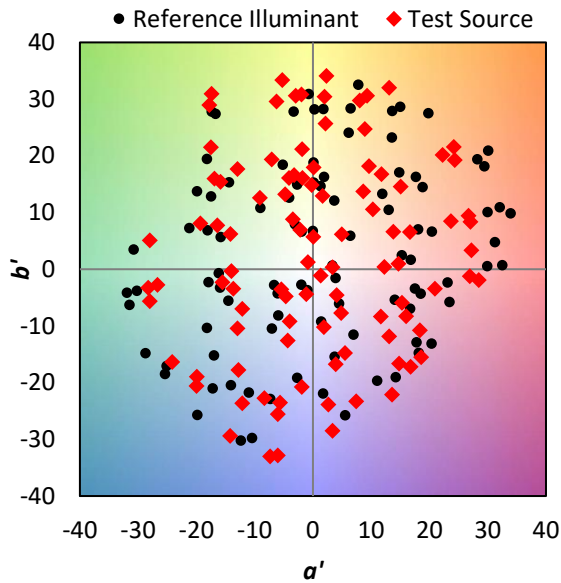
TM-30-18

Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_9 = -33.7$



Color Vector Graphics

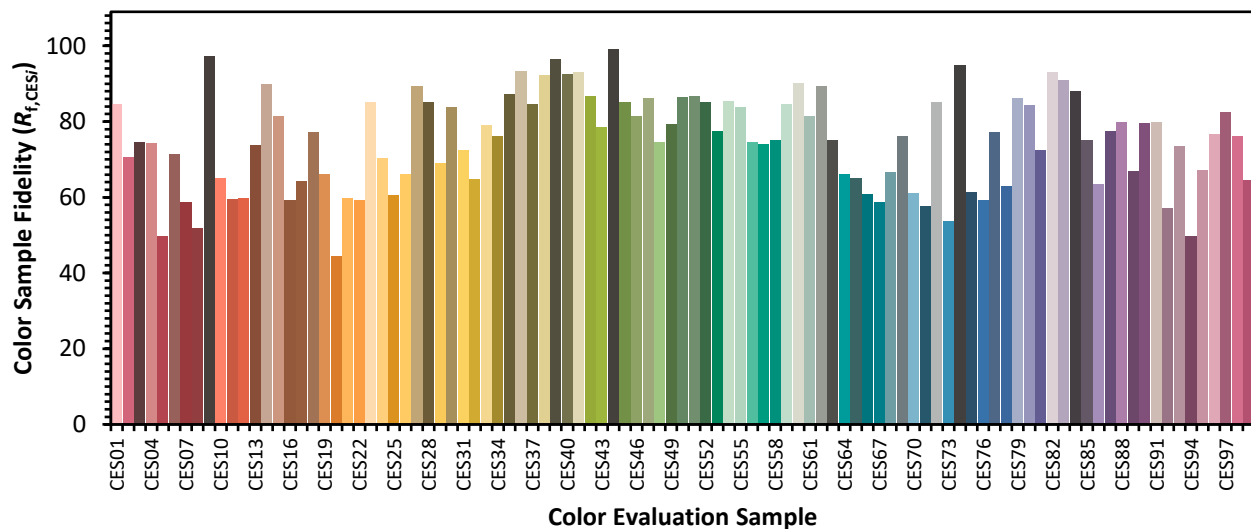


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TM-30-18

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

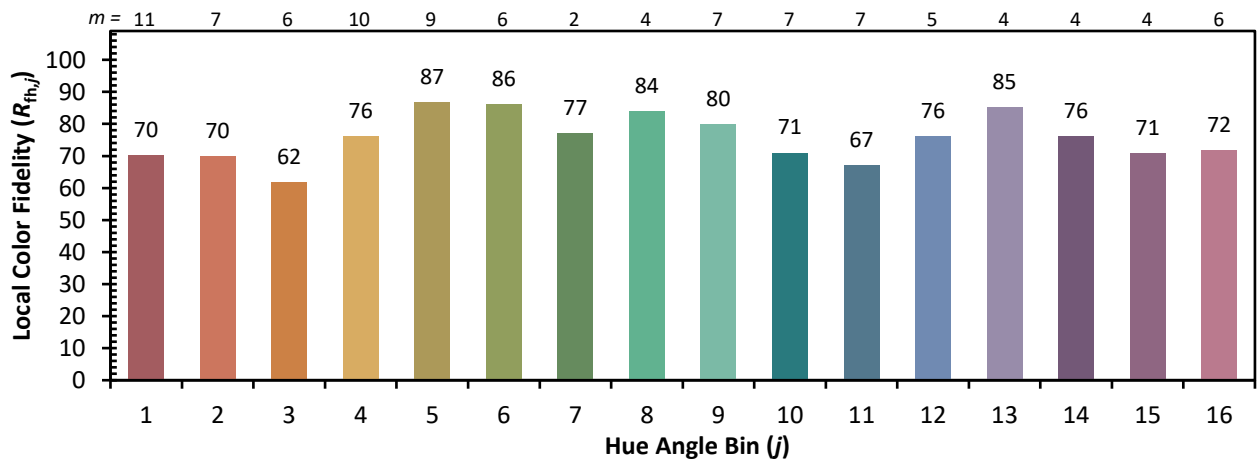
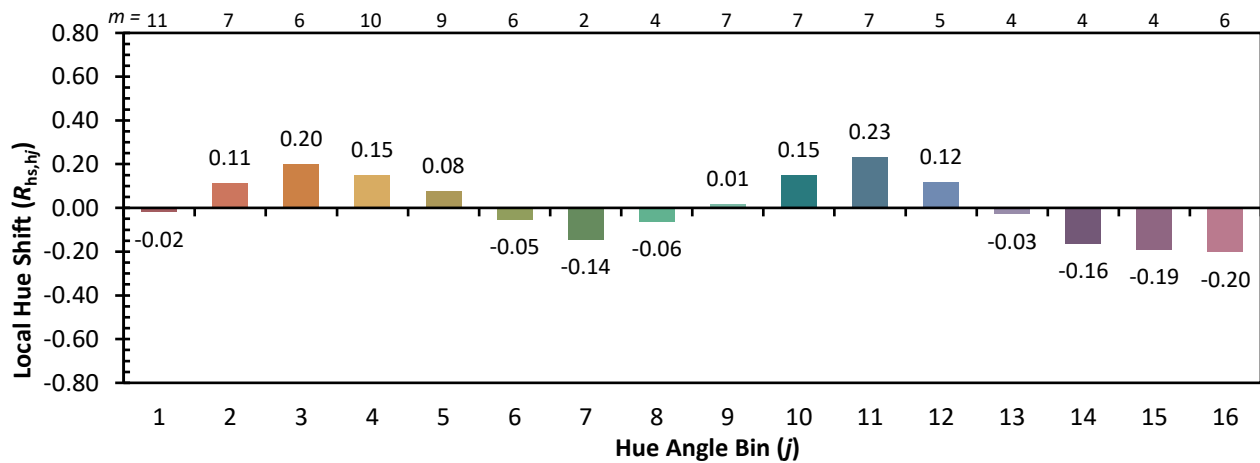
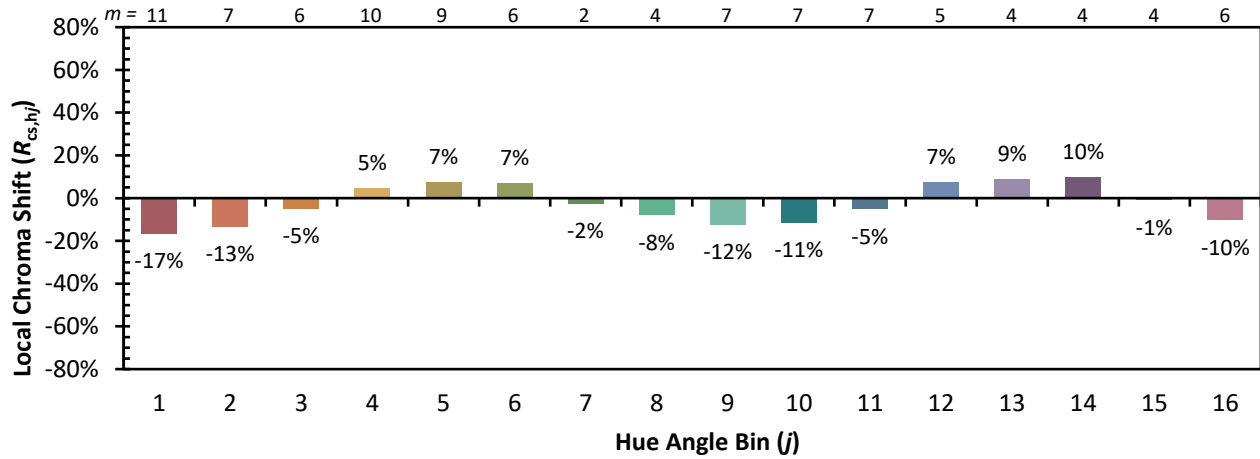
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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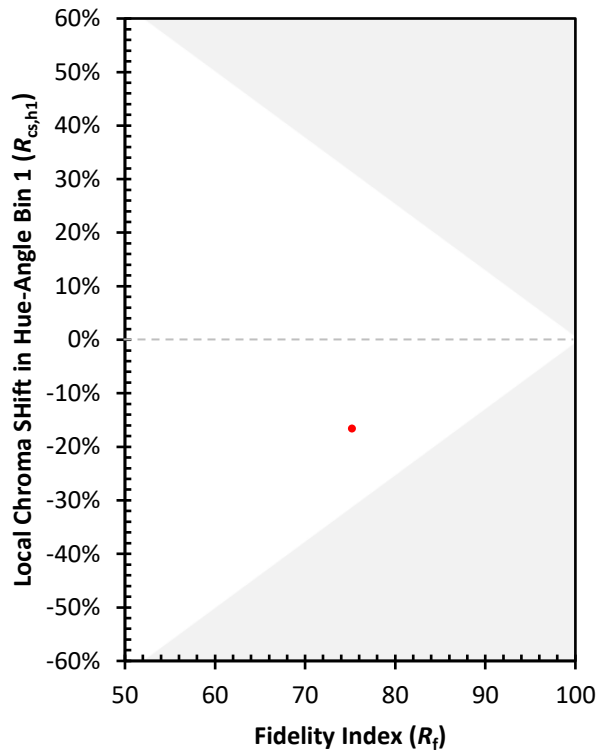
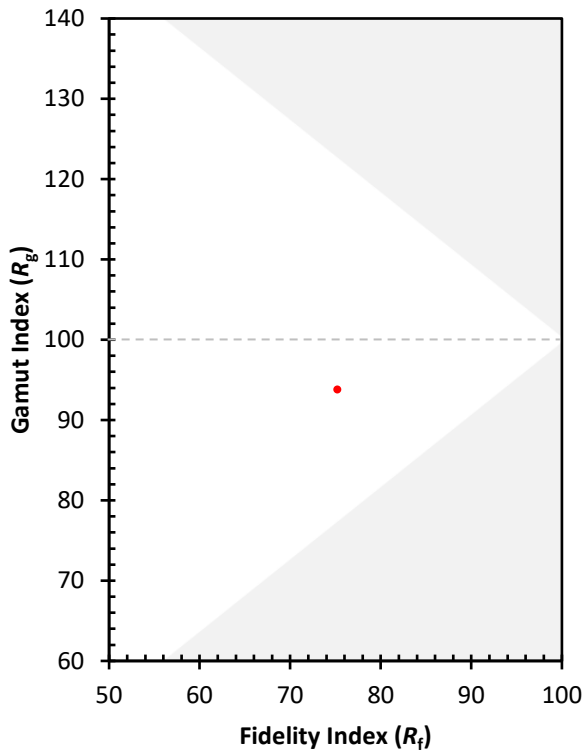
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)