

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: P856122

Luminaire Tested: **FFX-CLB-70-730-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856122
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-730-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

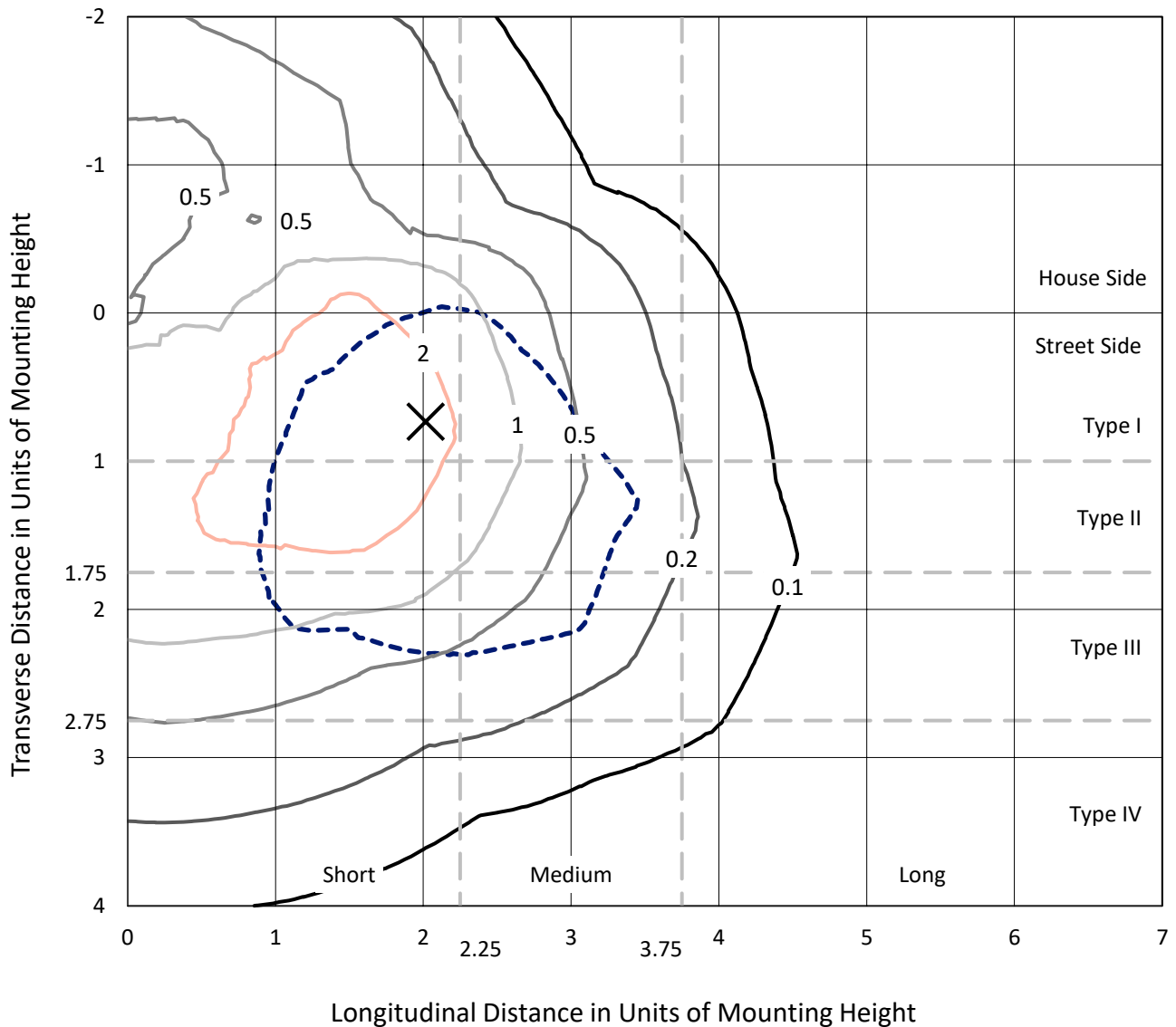
Lumens per Lamp: N/A
Luminaire Lumens: 10832.3 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G3

Input Watts (W): 70.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.1%%
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

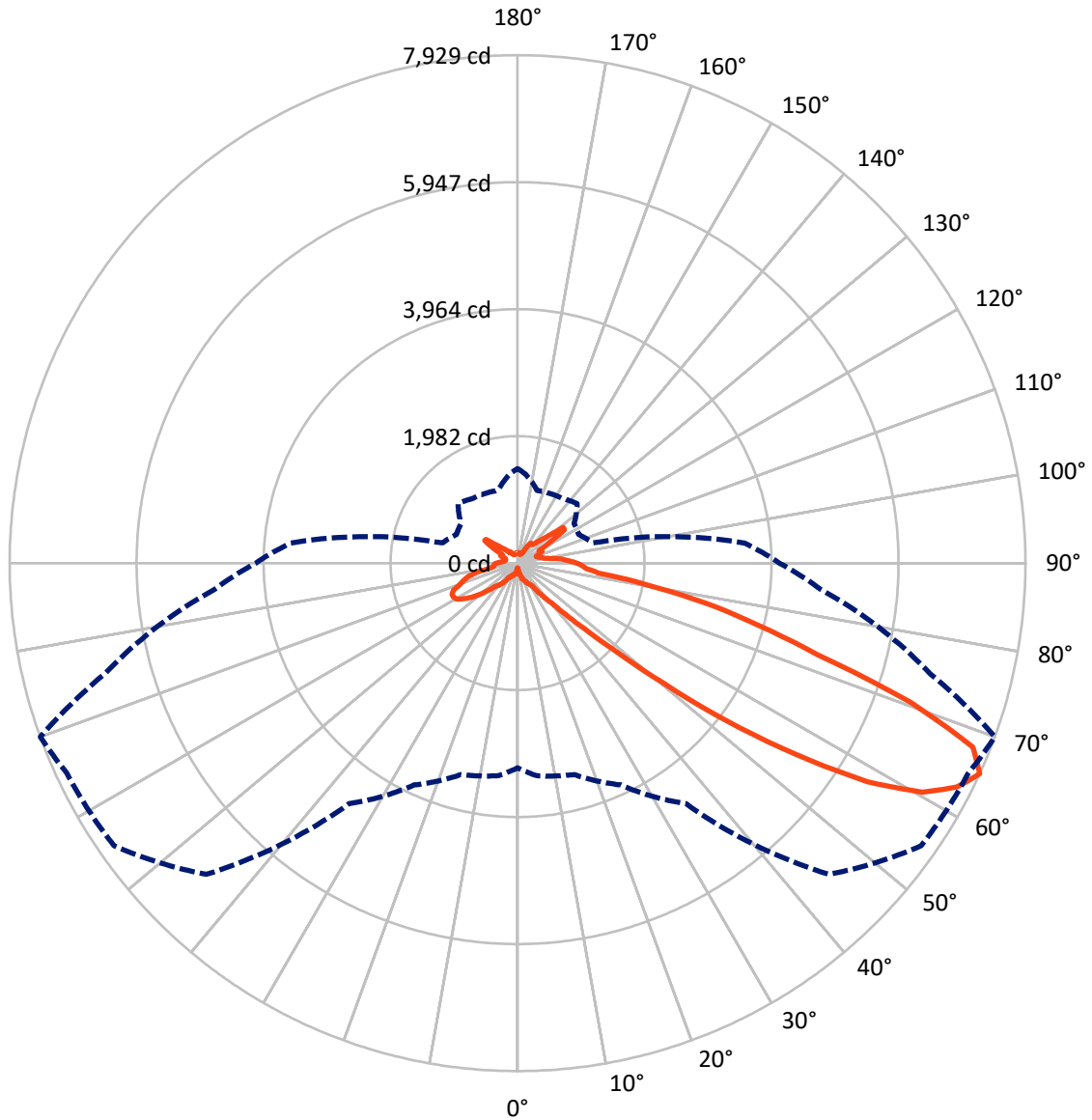
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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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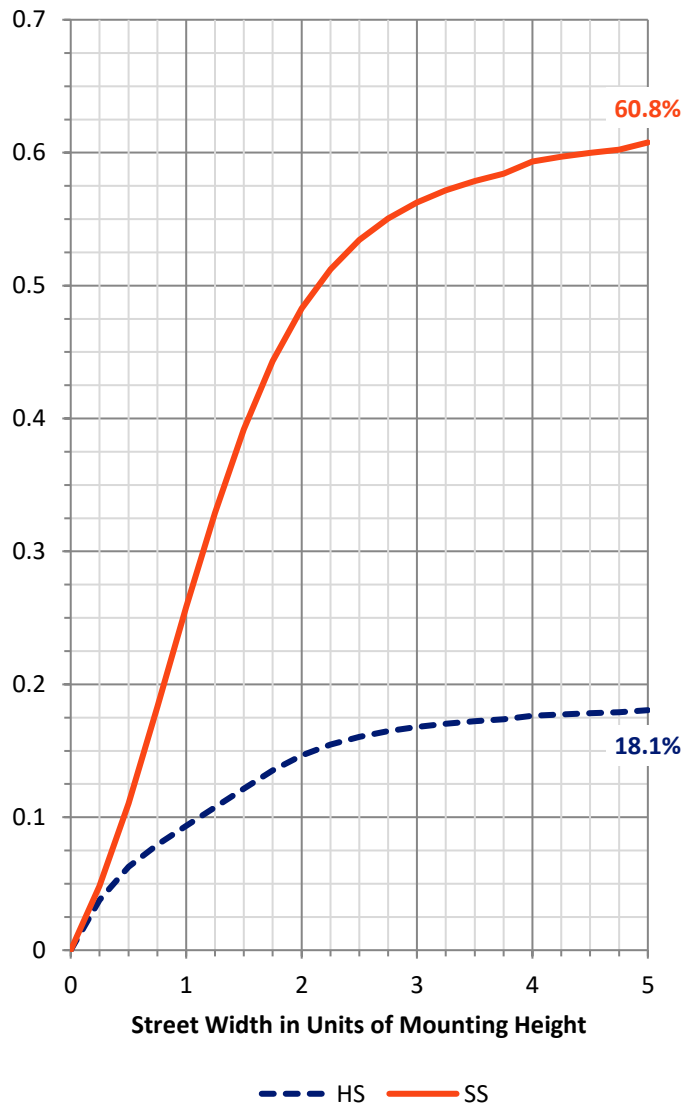
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.5	727.9	2768.4
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	6804.3	1259.6	8063.9
	% Fixture	62.8	11.6	74.4
Total	Lumens	8844.8	1987.6	10832.3
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.1
10°-20°	56.7	0.5
20°-30°	120.5	1.1
30°-40°	245.3	2.3
40°-50°	623.8	5.8
50°-60°	2004.7	18.5
60°-70°	3271.6	30.2
70°-80°	1862.5	17.2
80°-90°	648.1	6.0
90°-100°	403.3	3.7
100°-110°	256.8	2.4
110°-120°	282.6	2.6
120°-130°	477.9	4.4
130°-140°	281.7	2.6
140°-150°	151.6	1.4
150°-160°	76.6	0.7
160°-170°	41.9	0.4
170°-180°	15.1	0.1
0°-90°	8844.8	81.7
0°-180°	10832.3	100.0



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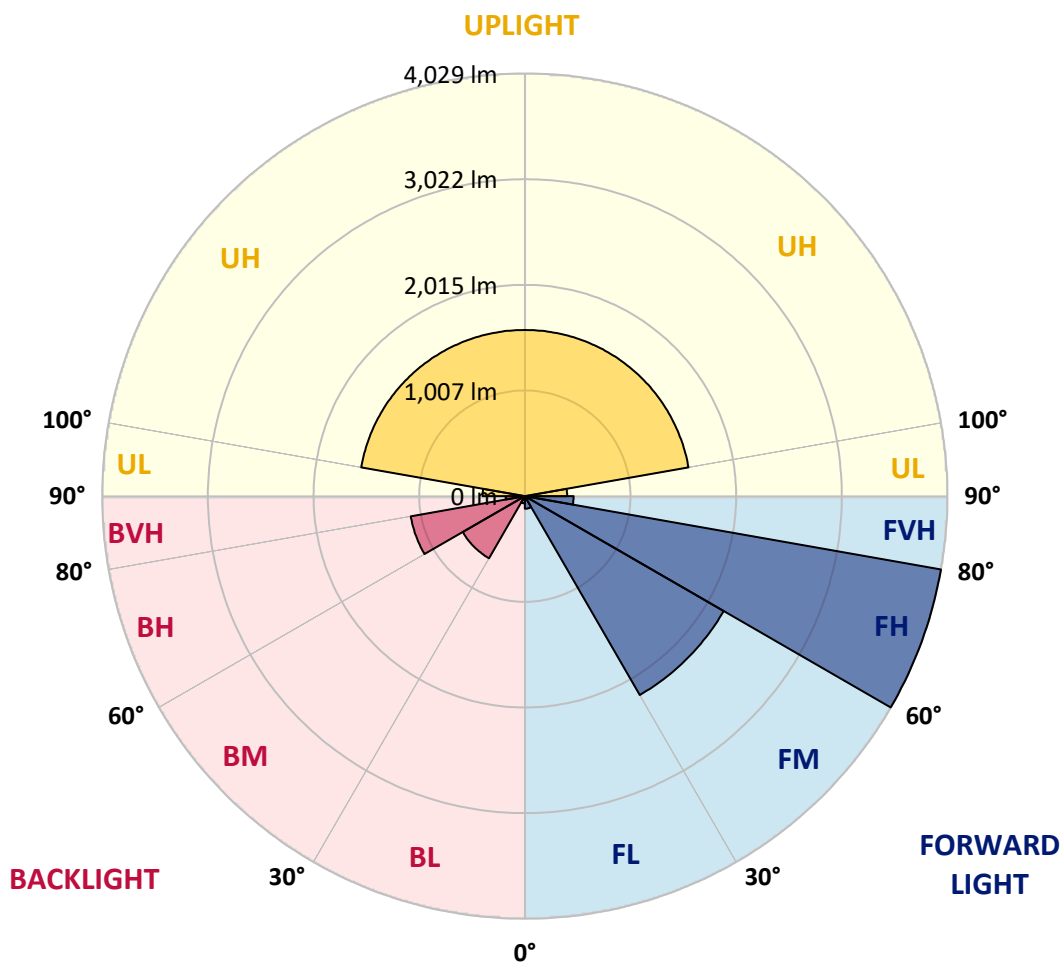
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.2	1.1			
FM (30°-60°)	2189.9	20.2			
FH (60°-80°)	4029.5	37.2			G2/5000
FVH (80°-90°)	464.7	4.3			G3/500
BL (0°-30°)	68.6	0.6	B0/110		
BM (30°-60°)	683.9	6.3	B1/1000		
BH (60°-80°)	1104.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	183.4	1.7			G2/225
UL (90°-100°)	403.3	3.7		U3/500	
UH (100°-180°)	1584.3	14.6		U5	

BUG Rating: B3-U5-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
2.5°	86.0	86.0	88.2	88.2	88.2	86.0	84.8	82.6	82.6	82.6	81.5
5°	111.6	110.5	111.6	115.0	116.1	112.7	110.5	107.2	107.2	106.0	106.0
7.5°	150.7	149.6	147.3	144.0	145.1	148.5	152.9	144.0	141.8	136.2	134.0
10°	188.6	186.4	188.6	183.1	177.5	169.7	174.1	171.9	167.4	161.9	157.4
12.5°	230.0	231.1	235.5	231.1	222.1	209.9	207.6	202.0	197.6	196.5	189.8
15°	272.4	273.5	278.0	276.8	267.9	251.2	244.5	238.9	236.6	230.0	215.4
17.5°	294.7	295.8	296.9	298.0	292.5	279.1	269.0	259.0	255.6	253.4	235.5
20°	305.9	303.6	305.9	310.3	314.8	303.6	293.6	288.0	284.6	276.8	253.4
22.5°	323.7	321.5	320.4	323.7	337.1	329.3	319.3	313.7	310.3	300.3	264.6
25°	342.7	340.5	343.8	341.6	358.3	355.0	344.9	339.3	334.9	322.6	281.3
27.5°	363.9	361.7	365.0	362.8	376.2	378.4	371.7	367.3	360.6	342.7	293.6
30°	381.8	379.5	382.9	381.8	395.2	403.0	399.6	398.5	388.5	367.3	314.8
32.5°	396.3	395.2	403.0	406.3	409.7	427.5	425.3	435.3	424.2	398.5	346.0
35°	429.8	433.1	454.3	476.6	480.0	515.7	520.2	557.0	545.9	512.4	448.7
37.5°	664.2	651.9	630.7	609.5	601.7	670.9	680.9	717.8	689.9	627.3	524.6
40°	707.7	687.6	663.1	646.3	648.6	772.5	751.3	890.8	811.5	717.8	640.7
42.5°	672.0	665.3	751.3	791.4	762.4	943.2	907.5	1173.2	1082.8	852.8	773.6
45°	842.8	829.4	859.5	899.7	908.6	1241.3	1216.7	1494.7	1457.8	1066.0	992.4
47.5°	964.5	952.2	992.4	1128.5	1245.8	1605.2	1739.1	2139.9	2010.4	1514.8	1344.0
50°	1329.5	1327.2	1451.2	1613.0	1818.4	2335.2	2691.3	3141.2	2932.4	2144.4	1843.0
52.5°	1690.0	1694.5	1846.3	2133.2	2346.4	3259.5	3765.2	4080.0	4107.9	2796.3	2388.8
55°	1962.4	1990.3	2173.4	2654.5	2977.1	4082.2	4738.6	4983.0	5262.1	3778.6	2957.0
57.5°	2493.7	2536.2	2710.3	3181.4	3632.3	5106.9	5993.3	6020.0	6436.4	4868.1	3566.5
60°	2958.1	3057.5	3118.9	3546.4	4161.5	6085.9	6925.3	6871.8	7262.5	5771.1	4184.9
62.5°	3102.1	3216.0	3274.0	3729.5	4580.1	6635.1	7360.7	7427.7	7696.7	6405.2	4563.3
65°	3195.9	3329.8	3416.9	3819.9	4584.5	6869.5	7691.1	7762.5	7928.9	6670.8	4752.0
67.5°	3147.9	3318.7	3430.3	3788.6	4343.4	6688.7	7625.2	7487.9	7664.3	6448.7	4541.0
70°	2748.3	2926.9	3039.6	3306.4	3631.2	5623.8	6573.7	6343.8	6498.9	5382.7	3733.9
72.5°	2239.2	2327.4	2396.6	2542.9	2737.1	4148.1	4995.3	4804.4	4897.1	4049.8	2798.5
75°	1839.6	1866.4	1952.4	2036.1	2068.4	3034.0	3957.2	3783.0	3891.3	3083.1	2227.0
77.5°	1336.2	1351.8	1474.6	1488.0	1480.2	2081.8	3118.9	2965.9	3000.5	2291.7	1662.1
80°	775.8	805.9	966.7	958.9	945.5	1282.6	2195.7	2134.3	2027.1	1556.1	1150.9
82.5°	547.0	577.1	650.8	667.5	658.6	920.9	1425.5	1385.3	1269.2	1082.8	795.9
85°	576.0	579.3	582.7	590.5	576.0	821.6	1091.7	1071.6	1072.7	895.2	656.4
87.5°	568.2	581.6	587.2	590.5	576.0	780.3	1014.7	989.0	1001.3	850.6	637.4
90°	499.0	523.5	525.8	531.3	523.5	696.6	910.9	886.3	901.9	766.9	580.5
92.5°	407.4	420.8	436.5	457.7	448.7	596.1	774.7	756.8	775.8	664.2	510.1
95°	386.2	400.7	410.8	425.3	411.9	543.6	699.9	664.2	679.8	581.6	439.8
97.5°	319.3	331.5	340.5	346.0	336.0	428.6	536.9	512.4	511.3	449.9	351.6
100°	272.4	280.2	288.0	293.6	284.6	355.0	425.3	416.4	418.6	371.7	302.5
102.5°	259.0	263.4	275.7	276.8	266.8	323.7	382.9	379.5	384.0	343.8	283.5
105°	253.4	256.7	266.8	263.4	254.5	302.5	352.7	355.0	355.0	320.4	265.7
107.5°	236.6	242.2	253.4	247.8	243.3	279.1	324.8	317.0	319.3	298.0	252.3
110°	234.4	238.9	250.0	245.6	242.2	272.4	312.6	310.3	313.7	294.7	259.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	291.3	286.9	295.8	286.9	292.5	318.1	360.6	356.1	366.1	359.4	323.7
115°	359.4	361.7	370.6	352.7	358.3	384.0	407.4	415.3	424.2	414.1	377.3
117.5°	332.6	351.6	340.5	338.2	333.8	353.9	350.5	370.6	379.5	371.7	357.2
120°	356.1	379.5	347.2	330.4	323.7	374.0	398.5	397.4	390.7	375.1	344.9
122.5°	532.5	535.8	538.0	588.3	570.4	619.5	634.0	615.1	615.1	635.2	573.8
125°	830.5	833.9	831.6	853.9	841.7	888.6	907.5	906.4	895.2	885.2	824.9
127.5°	839.4	839.4	831.6	819.3	830.5	876.3	877.4	919.8	905.3	878.5	822.7
130°	586.0	590.5	618.4	627.3	643.0	653.0	641.9	678.7	685.4	680.9	643.0
132.5°	485.6	493.4	523.5	534.7	544.7	545.9	541.4	570.4	577.1	577.1	560.4
135°	419.7	428.6	432.0	426.4	440.9	452.1	461.0	484.5	482.2	477.8	463.3
137.5°	366.1	369.5	359.4	347.2	355.0	387.3	405.2	429.8	428.6	420.8	396.3
140°	309.2	310.3	304.7	299.2	307.0	334.9	351.6	378.4	375.1	369.5	340.5
142.5°	234.4	237.8	252.3	263.4	282.4	340.5	331.5	355.0	371.7	385.1	318.1
145°	246.7	242.2	240.0	252.3	276.8	360.6	334.9	365.0	372.8	381.8	304.7
147.5°	284.6	286.9	283.5	275.7	309.2	336.0	321.5	348.3	352.7	350.5	319.3
150°	223.3	226.6	227.7	224.4	265.7	264.6	250.0	270.1	272.4	272.4	251.2
152.5°	182.0	183.1	180.8	178.6	205.4	200.9	194.2	200.9	199.8	198.7	194.2
155°	173.0	173.0	170.8	171.9	189.8	185.3	180.8	185.3	183.1	179.7	175.3
157.5°	159.6	160.7	160.7	164.1	175.3	167.4	163.0	165.2	163.0	160.7	160.7
160°	150.7	150.7	151.8	156.3	163.0	155.2	151.8	152.9	151.8	149.6	150.7
162.5°	147.3	147.3	148.5	150.7	151.8	147.3	144.0	144.0	144.0	144.0	147.3
165°	145.1	145.1	145.1	146.2	146.2	142.9	141.8	142.9	144.0	145.1	149.6
167.5°	149.6	149.6	149.6	149.6	148.5	146.2	145.1	146.2	147.3	148.5	151.8
170°	156.3	155.2	155.2	154.0	152.9	150.7	149.6	148.5	148.5	149.6	150.7
172.5°	160.7	160.7	159.6	159.6	158.5	156.3	154.0	152.9	152.9	152.9	152.9
175°	166.3	166.3	166.3	166.3	165.2	163.0	161.9	159.6	159.6	159.6	159.6
177.5°	173.0	173.0	173.0	173.0	170.8	168.6	166.3	164.1	164.1	164.1	163.0
180°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
2.5°	80.4	79.3	75.9	74.8	73.7	71.4	69.2	68.1	67.0	67.0	68.1
5°	107.2	106.0	106.0	102.7	99.3	93.8	91.5	91.5	92.7	93.8	96.0
7.5°	135.1	137.3	139.5	134.0	123.9	110.5	102.7	104.9	110.5	115.0	115.0
10°	156.3	156.3	164.1	157.4	140.7	123.9	112.7	110.5	111.6	112.7	113.9
12.5°	186.4	186.4	182.0	164.1	147.3	130.6	121.7	119.4	119.4	115.0	113.9
15°	208.7	202.0	186.4	169.7	155.2	138.4	128.4	125.0	121.7	118.3	117.2
17.5°	222.1	209.9	188.6	173.0	158.5	145.1	135.1	128.4	125.0	126.1	126.1
20°	237.8	224.4	205.4	188.6	170.8	152.9	140.7	130.6	127.3	128.4	127.3
22.5°	250.0	236.6	217.7	198.7	179.7	160.7	146.2	134.0	129.5	130.6	130.6
25°	264.6	253.4	233.3	211.0	187.5	169.7	155.2	140.7	134.0	132.8	132.8
27.5°	279.1	271.3	250.0	223.3	198.7	177.5	163.0	146.2	138.4	135.1	135.1
30°	298.0	289.1	267.9	235.5	208.7	188.6	173.0	155.2	144.0	138.4	137.3
32.5°	328.2	318.1	292.5	257.9	219.9	199.8	183.1	163.0	148.5	141.8	140.7
35°	426.4	410.8	370.6	330.4	269.0	223.3	195.3	169.7	152.9	144.0	142.9
37.5°	487.8	449.9	396.3	369.5	302.5	273.5	235.5	194.2	159.6	148.5	146.2
40°	587.2	534.7	467.7	415.3	294.7	299.2	275.7	242.2	189.8	156.3	152.9
42.5°	670.9	605.0	503.4	435.3	295.8	312.6	294.7	266.8	227.7	185.3	178.6
45°	827.2	742.3	584.9	467.7	303.6	332.6	310.3	281.3	246.7	217.7	214.3
47.5°	1117.4	1002.4	731.2	521.3	355.0	386.2	346.0	308.1	276.8	243.3	237.8
50°	1529.3	1392.0	899.7	563.7	443.2	509.0	436.5	372.8	337.1	312.6	309.2
52.5°	2003.7	1859.7	1023.6	641.9	550.3	660.8	577.1	503.4	456.6	456.6	463.3
55°	2555.1	2411.1	1123.0	750.1	682.0	828.3	737.9	677.6	655.3	750.1	775.8
57.5°	3102.1	2919.0	1189.9	860.6	836.1	1024.7	916.5	865.1	906.4	1187.7	1274.8
60°	3601.1	3298.6	1242.4	965.6	967.8	1181.0	1100.6	1097.3	1160.9	1520.4	1630.9
62.5°	3889.1	3477.2	1239.1	1025.9	1044.8	1278.1	1211.2	1229.0	1264.7	1576.2	1659.9
65°	4086.7	3562.0	1213.4	1052.6	1077.2	1312.7	1229.0	1198.9	1175.4	1395.3	1475.7
67.5°	3950.5	3363.3	1155.3	1013.6	1057.1	1262.5	1152.0	1066.0	1020.3	1131.9	1186.6
70°	3308.6	2805.2	1022.5	912.0	952.2	1063.8	957.8	872.9	824.9	885.2	910.9
72.5°	2506.0	2134.3	922.0	852.8	835.0	879.6	779.2	684.3	655.3	694.3	699.9
75°	1995.9	1669.9	848.4	771.3	701.0	744.6	621.8	506.8	490.0	490.0	481.1
77.5°	1496.9	1237.9	723.3	600.6	516.8	588.3	463.3	352.7	330.4	326.0	313.7
80°	1003.5	842.8	486.7	398.5	371.7	436.5	329.3	259.0	260.1	259.0	244.5
82.5°	701.0	650.8	395.2	347.2	318.1	343.8	298.0	248.9	246.7	248.9	233.3
85°	621.8	596.1	382.9	358.3	328.2	331.5	285.8	235.5	236.6	241.1	227.7
87.5°	597.2	568.2	384.0	346.0	320.4	307.0	259.0	217.7	224.4	228.8	217.7
90°	538.0	509.0	352.7	312.6	285.8	266.8	228.8	206.5	215.4	219.9	209.9
92.5°	466.6	436.5	293.6	275.7	269.0	269.0	240.0	219.9	225.5	227.7	218.8
95°	401.9	372.8	261.2	242.2	236.6	237.8	214.3	197.6	200.9	199.8	193.1
97.5°	324.8	307.0	227.7	215.4	209.9	207.6	192.0	179.7	186.4	190.9	185.3
100°	286.9	278.0	219.9	211.0	203.2	202.0	188.6	180.8	186.4	193.1	188.6
102.5°	267.9	261.2	209.9	197.6	192.0	189.8	180.8	171.9	177.5	184.2	180.8
105°	252.3	242.2	200.9	189.8	182.0	180.8	171.9	160.7	164.1	173.0	170.8
107.5°	238.9	232.2	199.8	187.5	177.5	177.5	167.4	158.5	159.6	163.0	163.0
110°	250.0	242.2	207.6	198.7	185.3	180.8	178.6	171.9	166.3	164.1	164.1



REPORT NUMBER: P856122
 CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	309.2	294.7	260.1	250.0	227.7	212.1	197.6	184.2	175.3	171.9	169.7
115°	365.0	348.3	307.0	281.3	251.2	227.7	207.6	193.1	179.7	175.3	179.7
117.5°	376.2	331.5	267.9	246.7	228.8	214.3	203.2	192.0	182.0	185.3	182.0
120°	372.8	318.1	270.1	300.3	270.1	236.6	209.9	209.9	206.5	189.8	193.1
122.5°	573.8	535.8	477.8	459.9	375.1	342.7	292.5	250.0	208.7	185.3	174.1
125°	785.9	749.0	659.7	591.6	506.8	417.5	320.4	246.7	193.1	170.8	174.1
127.5°	790.3	756.8	672.0	557.0	445.4	357.2	266.8	218.8	188.6	174.1	171.9
130°	616.2	583.8	511.3	423.1	352.7	294.7	240.0	197.6	170.8	159.6	156.3
132.5°	533.6	504.6	437.6	357.2	305.9	260.1	214.3	171.9	154.0	146.2	147.3
135°	448.7	414.1	350.5	307.0	274.6	233.3	192.0	157.4	148.5	146.2	145.1
137.5°	380.6	356.1	311.4	278.0	246.7	209.9	168.6	147.3	144.0	146.2	144.0
140°	323.7	303.6	279.1	250.0	212.1	177.5	150.7	140.7	146.2	147.3	146.2
142.5°	279.1	259.0	233.3	194.2	176.4	160.7	154.0	146.2	146.2	145.1	144.0
145°	233.3	206.5	194.2	199.8	188.6	173.0	160.7	145.1	139.5	139.5	140.7
147.5°	267.9	240.0	224.4	212.1	190.9	168.6	149.6	135.1	132.8	137.3	136.2
150°	231.1	205.4	194.2	177.5	164.1	147.3	135.1	129.5	130.6	136.2	136.2
152.5°	184.2	166.3	159.6	155.2	148.5	138.4	131.7	129.5	131.7	134.0	134.0
155°	173.0	163.0	155.2	151.8	144.0	136.2	130.6	129.5	131.7	134.0	136.2
157.5°	161.9	158.5	148.5	145.1	138.4	135.1	131.7	131.7	132.8	135.1	137.3
160°	154.0	152.9	144.0	142.9	138.4	136.2	136.2	137.3	138.4	138.4	138.4
162.5°	149.6	149.6	146.2	144.0	142.9	141.8	145.1	146.2	145.1	145.1	145.1
165°	150.7	151.8	148.5	146.2	145.1	147.3	152.9	152.9	150.7	149.6	148.5
167.5°	151.8	152.9	150.7	149.6	149.6	151.8	154.0	152.9	151.8	150.7	149.6
170°	150.7	151.8	151.8	152.9	152.9	152.9	155.2	155.2	152.9	151.8	151.8
172.5°	152.9	154.0	155.2	156.3	157.4	156.3	157.4	157.4	157.4	157.4	158.5
175°	159.6	159.6	160.7	160.7	159.6	160.7	160.7	160.7	161.9	164.1	164.1
177.5°	163.0	163.0	161.9	161.9	160.7	161.9	161.9	161.9	161.9	163.0	161.9
180°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2

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.

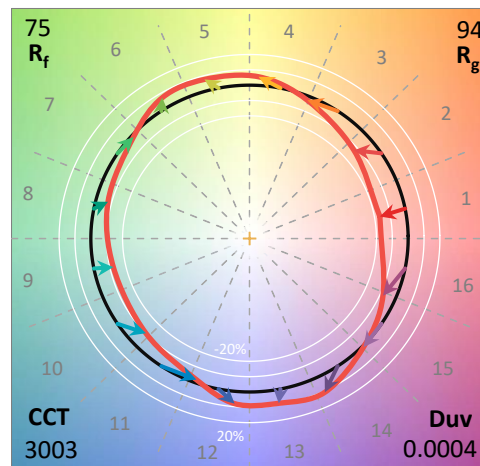
Test Information

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



Test Conditions

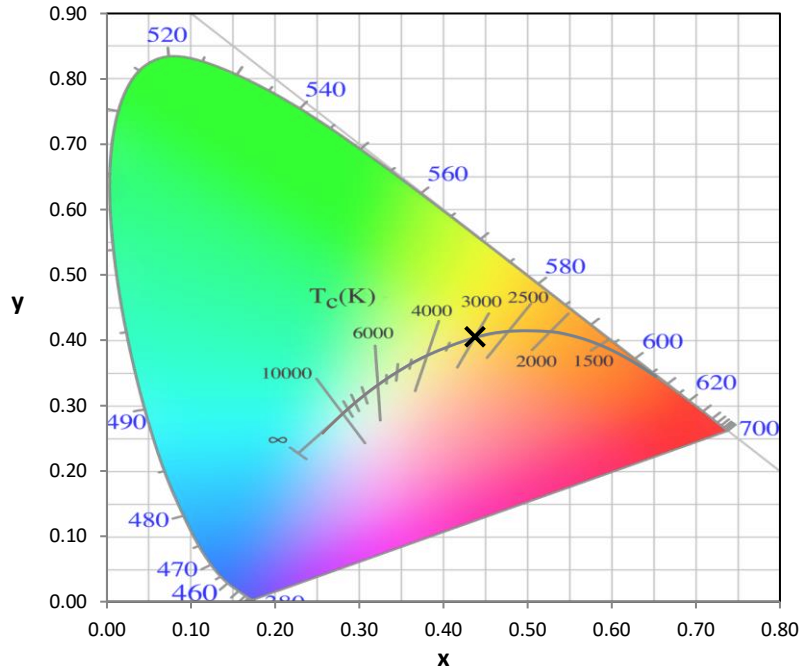
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

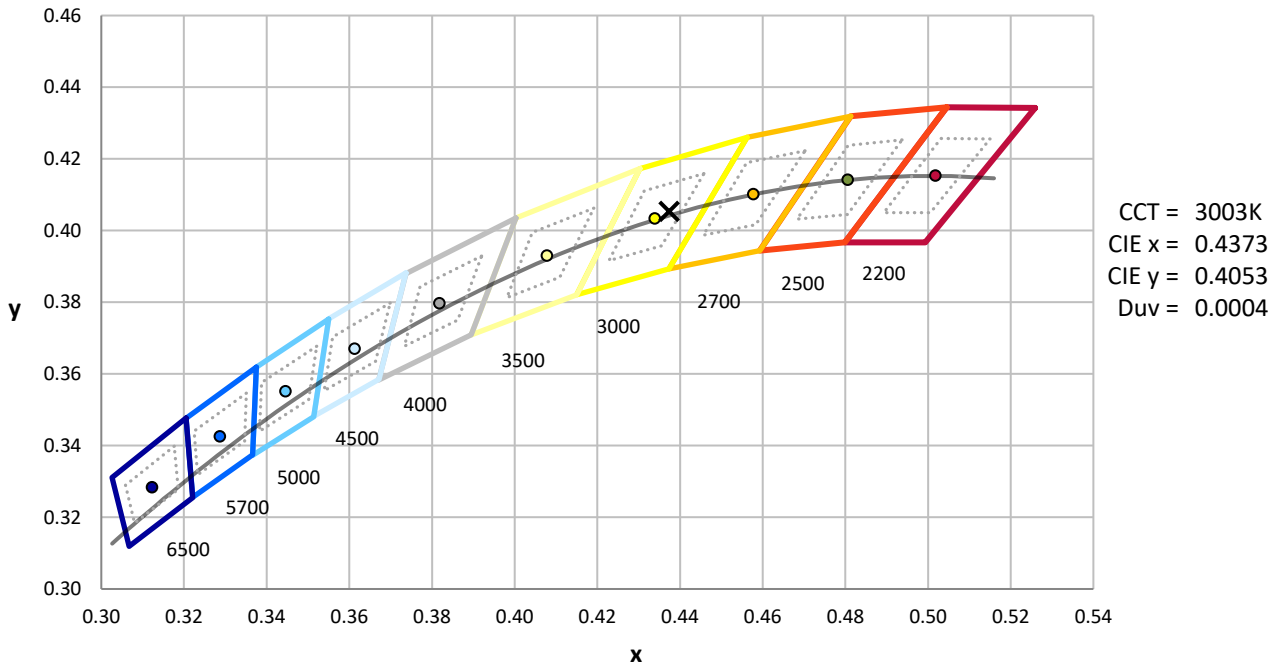
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-4

CIE 1931 Chromaticity Diagram



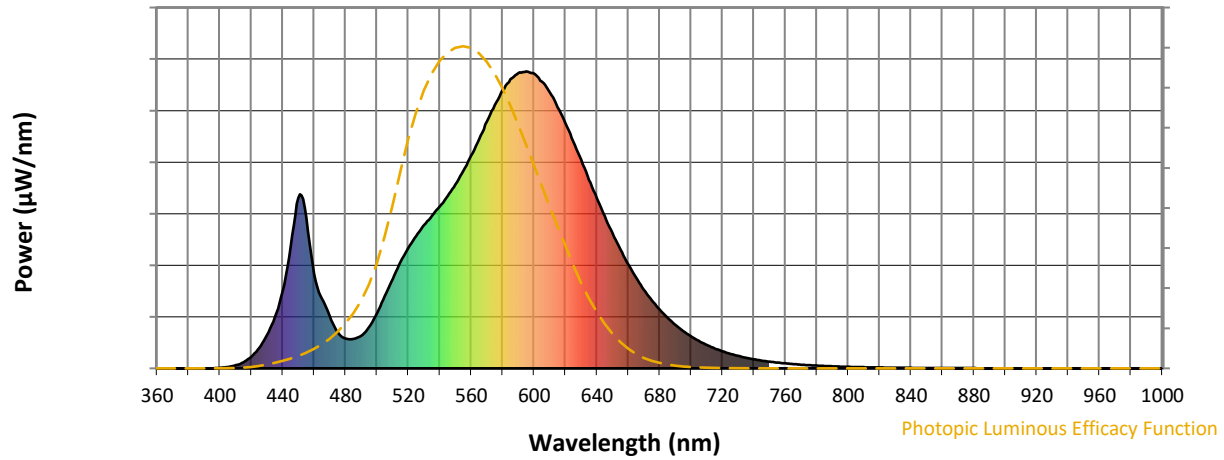
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

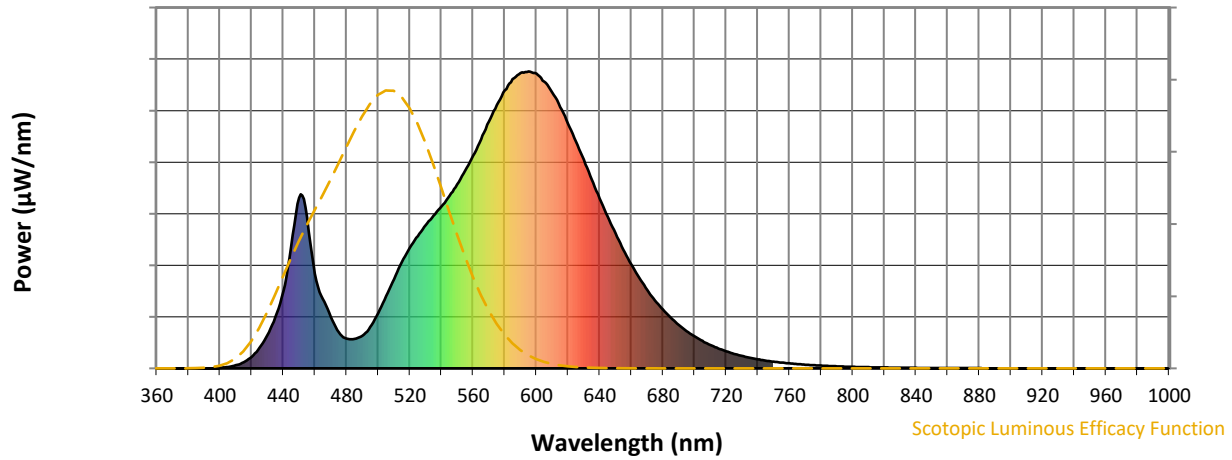


Photopic Lumens: NR

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



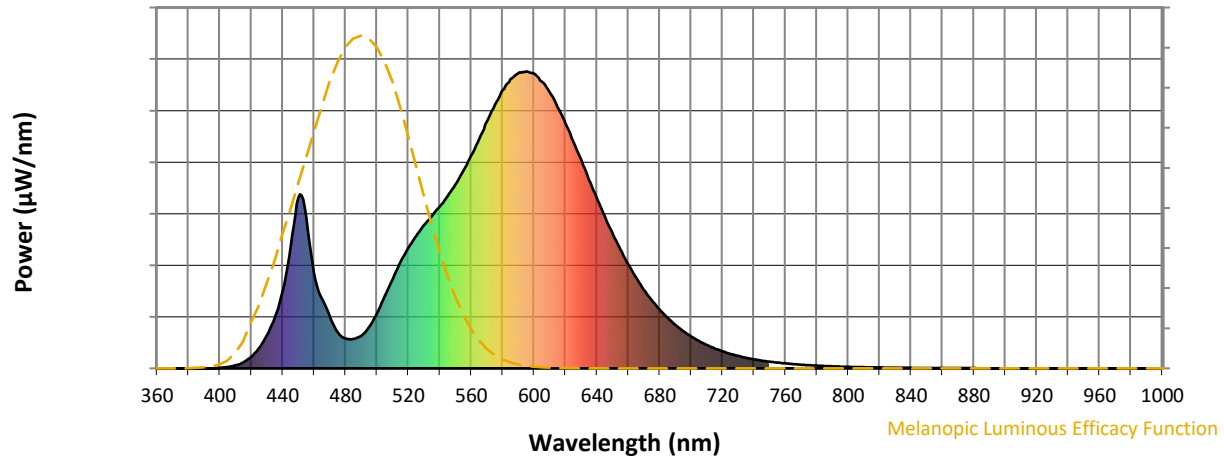
Scotopic Lumens: NR

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

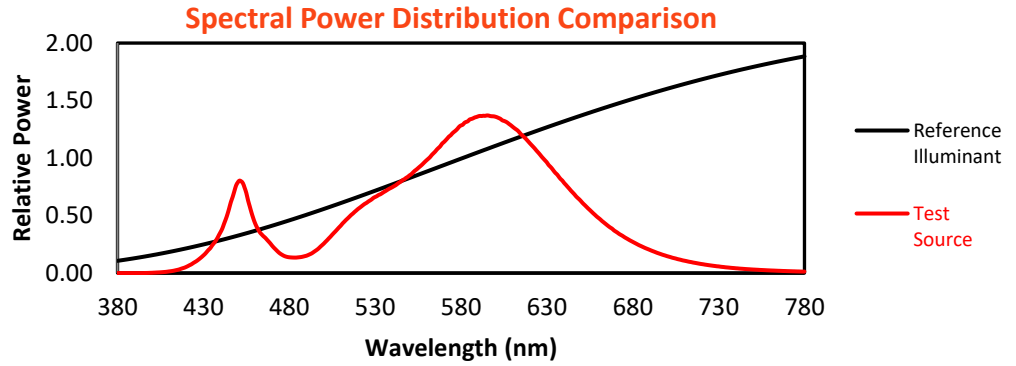
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	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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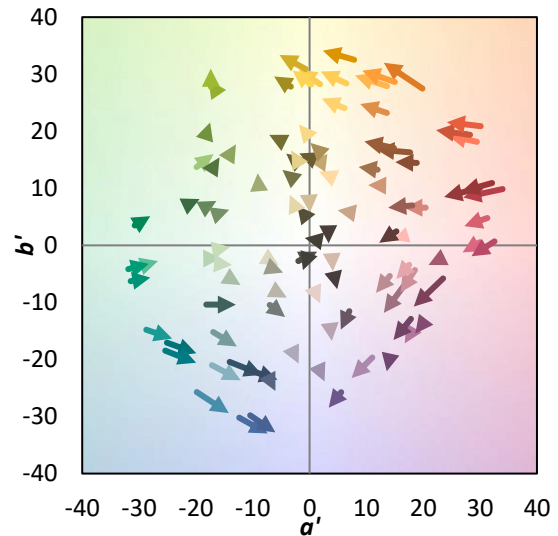
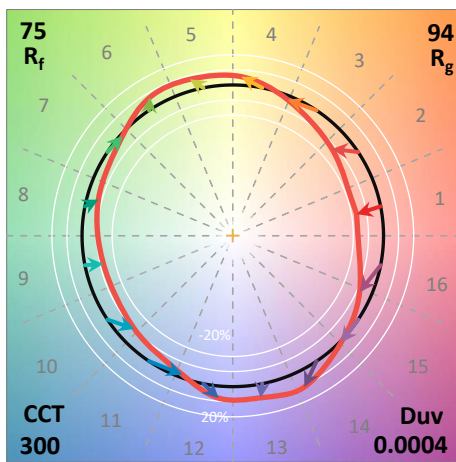
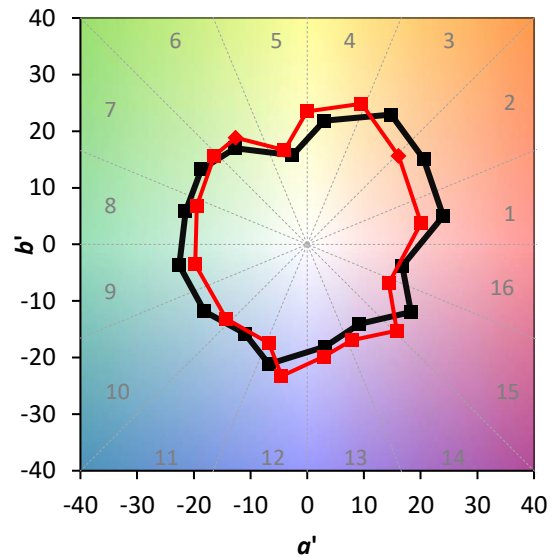
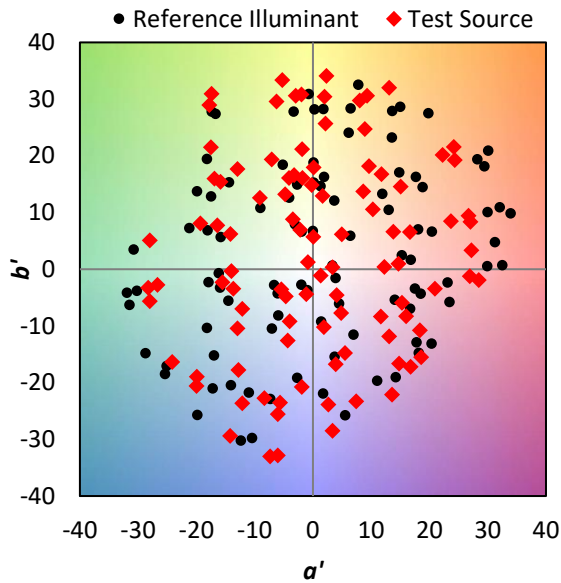
TM-30-18

Summary

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



Color Vector Graphics

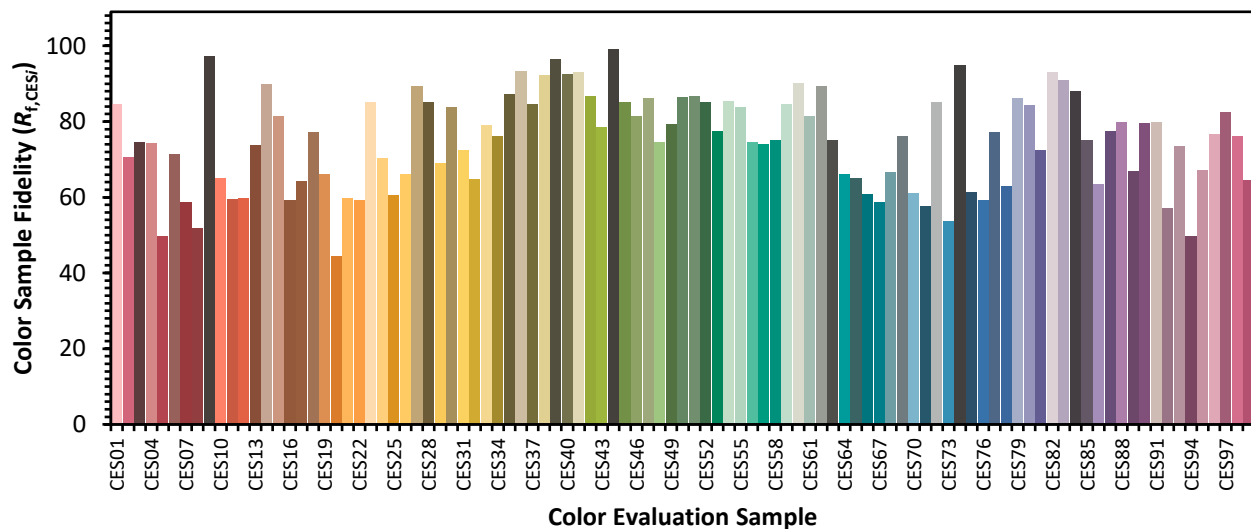


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TM-30-18

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

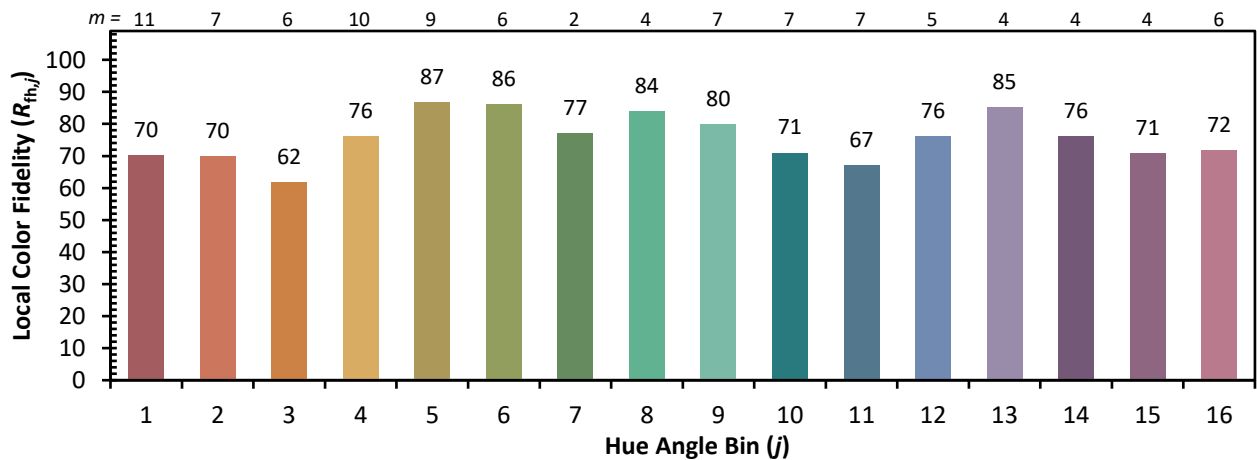
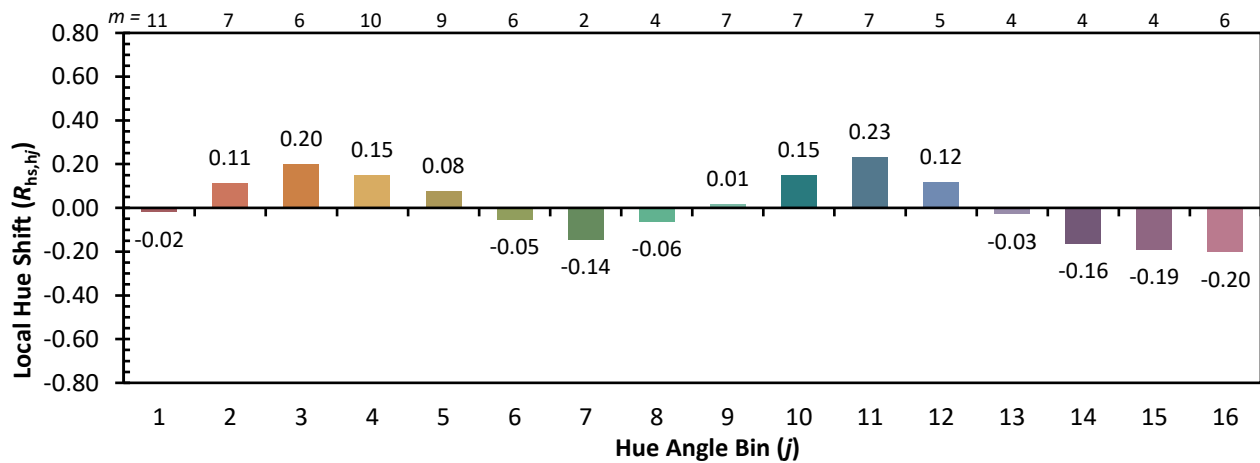
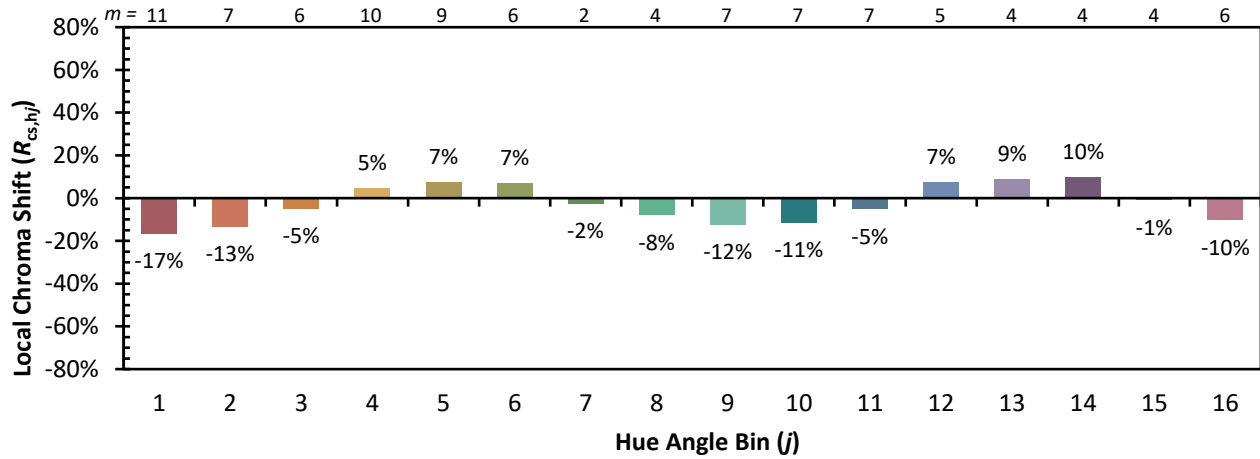
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 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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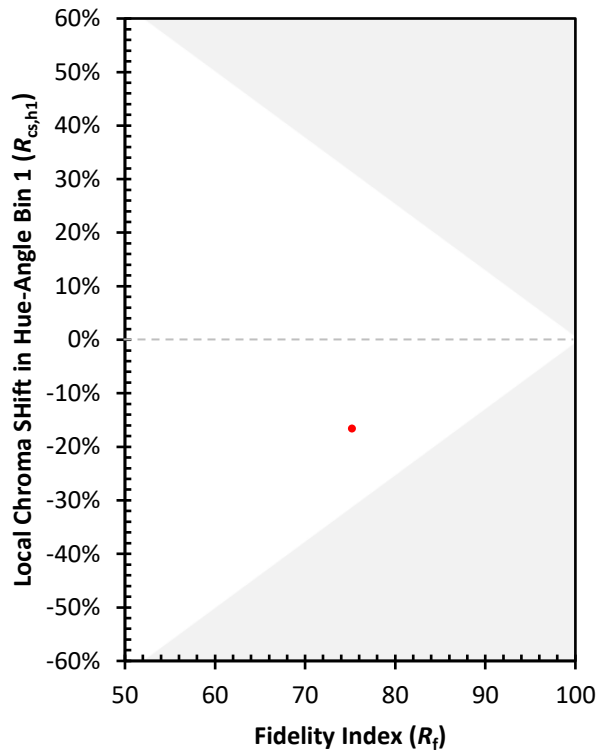
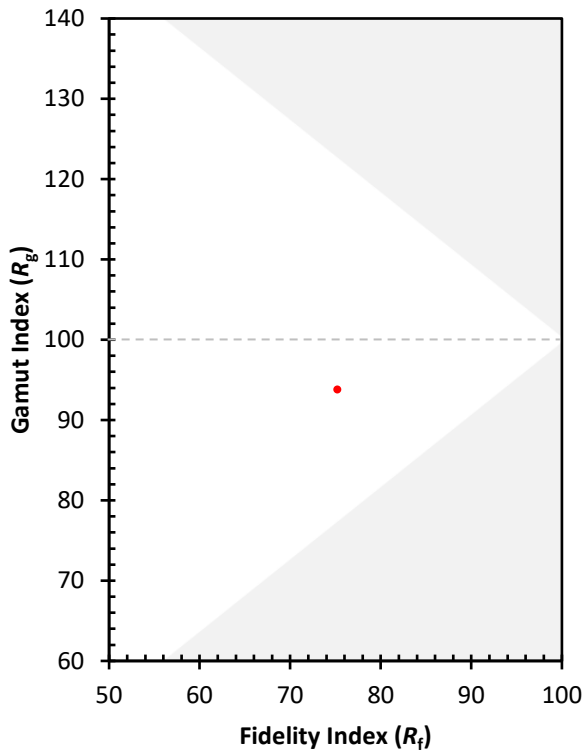
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)