

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: P856123

Luminaire Tested: **FFX-CLB-60-730-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856123
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-60-730-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

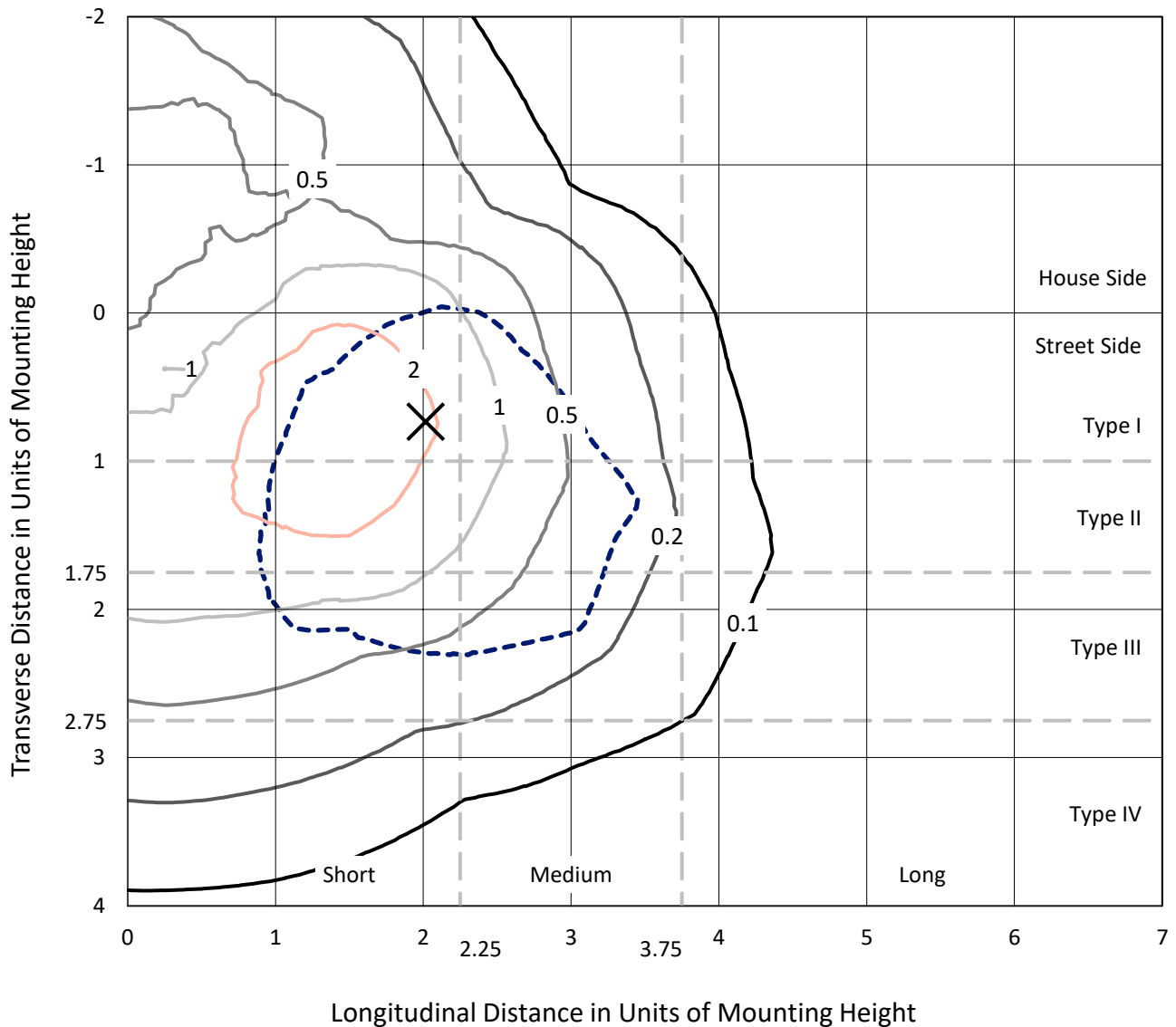
Lumens per Lamp: N/A
Luminaire Lumens: 9204.6 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 8.9%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

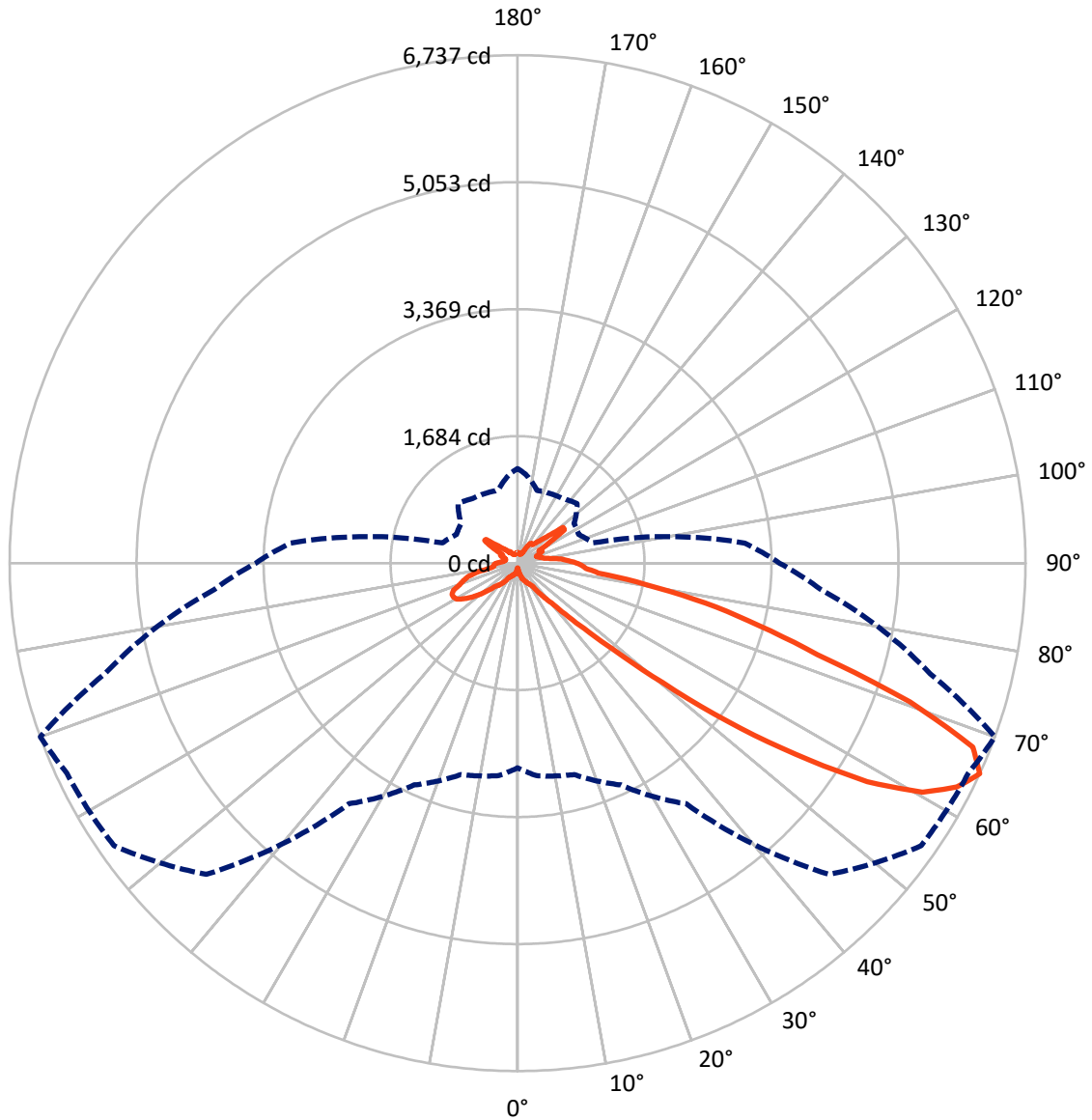
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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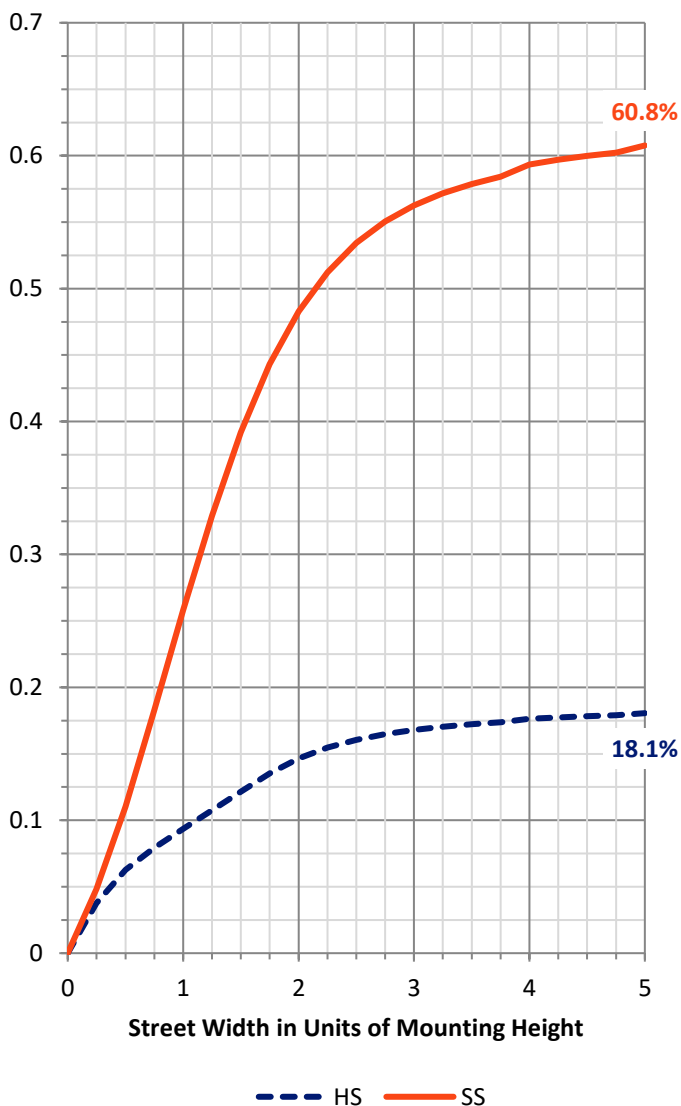
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.9	618.5	2352.4
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	5781.8	1070.4	6852.2
	% Fixture	62.8	11.6	74.4
Total	Lumens	7515.7	1688.9	9204.6
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.1
10°-20°	48.2	0.5
20°-30°	102.4	1.1
30°-40°	208.5	2.3
40°-50°	530.0	5.8
50°-60°	1703.4	18.5
60°-70°	2780.0	30.2
70°-80°	1582.6	17.2
80°-90°	550.7	6.0
90°-100°	342.7	3.7
100°-110°	218.3	2.4
110°-120°	240.1	2.6
120°-130°	406.1	4.4
130°-140°	239.4	2.6
140°-150°	128.8	1.4
150°-160°	65.1	0.7
160°-170°	35.6	0.4
170°-180°	12.8	0.1
0°-90°	7515.7	81.7
0°-180°	9204.6	100.0



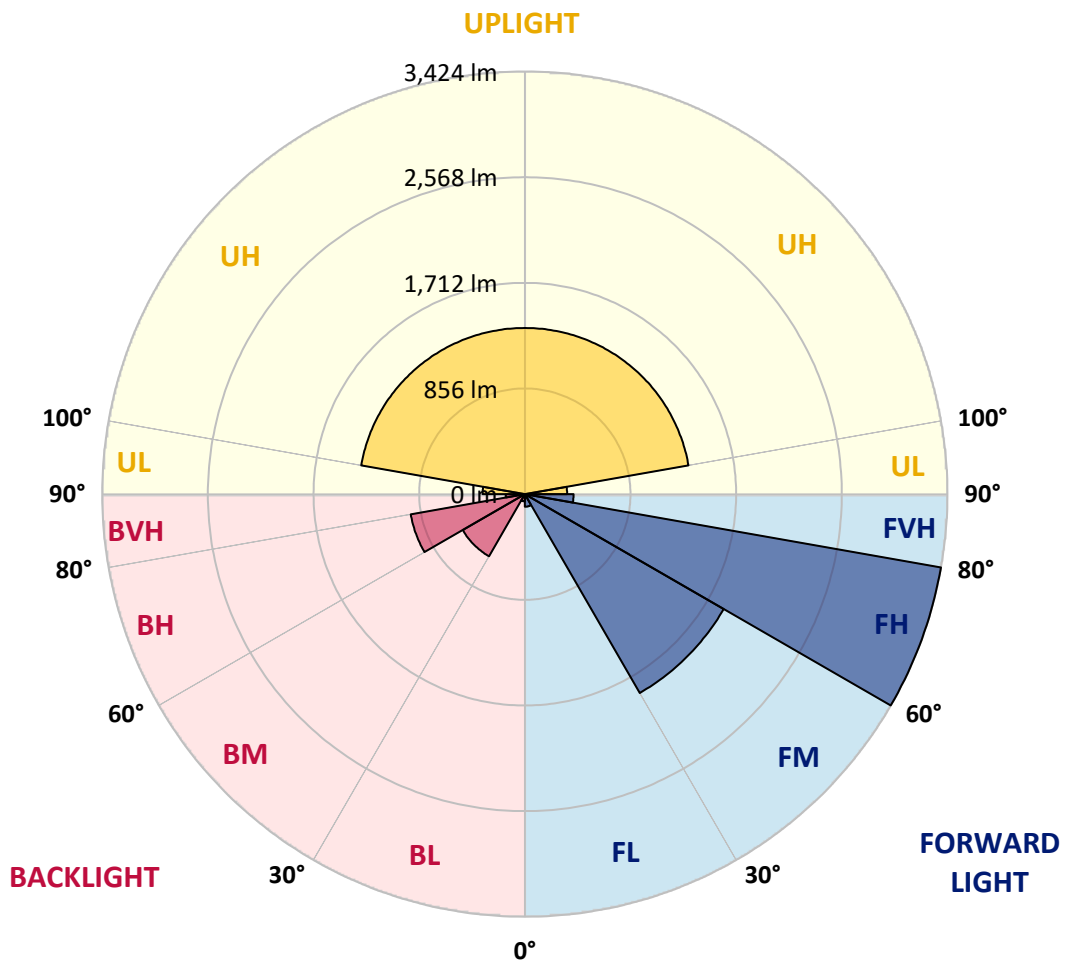
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.2	1.1			
FM (30°-60°)	1860.8	20.2			
FH (60°-80°)	3424.0	37.2			G2/5000
FVH (80°-90°)	394.9	4.3			G3/500
BL (0°-30°)	58.3	0.6	B0/110		
BM (30°-60°)	581.1	6.3	B1/1000		
BH (60°-80°)	938.7	10.2	B2/1000		G2/1000
BVH (80°-90°)	155.8	1.7			G2/225
UL (90°-100°)	342.7	3.7		U3/500	
UH (100°-180°)	1346.2	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°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	73.0	73.0	74.9	74.9	74.9	73.0	72.1	70.2	70.2	70.2	69.2
5°	94.9	93.9	94.9	97.7	98.6	95.8	93.9	91.1	91.1	90.1	90.1
7.5°	128.1	127.1	125.2	122.4	123.3	126.2	129.9	122.4	120.5	115.7	113.8
10°	160.3	158.4	160.3	155.6	150.8	144.2	148.0	146.1	142.3	137.5	133.7
12.5°	195.4	196.3	200.1	196.3	188.8	178.3	176.4	171.7	167.9	166.9	161.3
15°	231.4	232.4	236.2	235.2	227.6	213.4	207.7	203.0	201.1	195.4	183.1
17.5°	250.4	251.4	252.3	253.3	248.5	237.1	228.6	220.1	217.2	215.3	200.1
20°	259.9	258.0	259.9	263.7	267.5	258.0	249.5	244.7	241.9	235.2	215.3
22.5°	275.1	273.2	272.2	275.1	286.5	279.8	271.3	266.5	263.7	255.2	224.8
25°	291.2	289.3	292.1	290.3	304.5	301.6	293.1	288.4	284.6	274.1	239.0
27.5°	309.2	307.3	310.2	308.3	319.7	321.6	315.9	312.1	306.4	291.2	249.5
30°	324.4	322.5	325.3	324.4	335.8	342.4	339.6	338.6	330.1	312.1	267.5
32.5°	336.7	335.8	342.4	345.3	348.1	363.3	361.4	369.9	360.4	338.6	294.0
35°	365.2	368.0	386.1	405.0	407.9	438.2	442.0	473.3	463.8	435.4	381.3
37.5°	564.4	553.9	535.9	517.9	511.3	570.1	578.6	609.9	586.2	533.1	445.8
40°	601.4	584.3	563.4	549.2	551.1	656.4	638.4	756.9	689.6	609.9	544.5
42.5°	571.0	565.3	638.4	672.5	647.8	801.5	771.2	996.9	920.1	724.7	657.3
45°	716.1	704.8	730.4	764.5	772.1	1054.8	1033.9	1270.1	1238.8	905.8	843.2
47.5°	819.5	809.1	843.2	959.0	1058.6	1364.0	1477.8	1818.3	1708.3	1287.2	1142.0
50°	1129.7	1127.8	1233.1	1370.6	1545.2	1984.3	2286.9	2669.2	2491.8	1822.1	1566.0
52.5°	1436.1	1439.9	1568.9	1812.6	1993.8	2769.7	3199.4	3466.9	3490.6	2376.1	2029.9
55°	1667.5	1691.2	1846.8	2255.6	2529.7	3468.8	4026.5	4234.2	4471.4	3210.8	2512.7
57.5°	2119.0	2155.1	2303.0	2703.3	3086.5	4339.5	5092.7	5115.4	5469.2	4136.5	3030.6
60°	2513.6	2598.0	2650.2	3013.5	3536.1	5171.4	5884.7	5839.2	6171.1	4903.9	3556.0
62.5°	2636.0	2732.7	2782.0	3169.0	3891.8	5638.1	6254.6	6311.5	6540.1	5442.7	3877.6
65°	2715.6	2829.5	2903.5	3245.9	3895.6	5837.3	6535.4	6596.1	6737.4	5668.4	4037.9
67.5°	2674.9	2820.0	2914.8	3219.3	3690.7	5683.6	6479.4	6362.7	6512.6	5479.7	3858.6
70°	2335.3	2487.0	2582.8	2809.5	3085.6	4778.7	5585.9	5390.5	5522.3	4573.8	3172.8
72.5°	1902.8	1977.7	2036.5	2160.8	2325.8	3524.7	4244.7	4082.5	4161.2	3441.3	2378.0
75°	1563.2	1585.9	1659.0	1730.1	1757.6	2578.1	3362.5	3214.6	3306.6	2619.8	1892.3
77.5°	1135.4	1148.7	1253.0	1264.4	1257.8	1769.0	2650.2	2520.2	2549.6	1947.3	1412.4
80°	659.2	684.8	821.4	814.8	803.4	1089.9	1865.8	1813.6	1722.5	1322.3	977.9
82.5°	464.8	490.4	553.0	567.2	559.6	782.5	1211.3	1177.1	1078.5	920.1	676.3
85°	489.4	492.3	495.1	501.8	489.4	698.1	927.7	910.6	911.5	760.7	557.7
87.5°	482.8	494.2	498.9	501.8	489.4	663.0	862.2	840.4	850.8	722.8	541.6
90°	424.0	444.9	446.8	451.5	444.9	591.9	774.0	753.1	766.4	651.6	493.2
92.5°	346.2	357.6	370.9	388.9	381.3	506.5	658.3	643.1	659.2	564.4	433.5
95°	328.2	340.5	349.1	361.4	350.0	461.9	594.7	564.4	577.7	494.2	373.7
97.5°	271.3	281.7	289.3	294.0	285.5	364.2	456.2	435.4	434.4	382.3	298.8
100°	231.4	238.1	244.7	249.5	241.9	301.6	361.4	353.8	355.7	315.9	257.1
102.5°	220.1	223.9	234.3	235.2	226.7	275.1	325.3	322.5	326.3	292.1	240.9
105°	215.3	218.2	226.7	223.9	216.3	257.1	299.7	301.6	301.6	272.2	225.8
107.5°	201.1	205.8	215.3	210.6	206.8	237.1	276.0	269.4	271.3	253.3	214.4
110°	199.2	203.0	212.5	208.7	205.8	231.4	265.6	263.7	266.5	250.4	220.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	247.6	243.8	251.4	243.8	248.5	270.3	306.4	302.6	311.1	305.4	275.1
115°	305.4	307.3	314.9	299.7	304.5	326.3	346.2	352.9	360.4	351.9	320.6
117.5°	282.7	298.8	289.3	287.4	283.6	300.7	297.8	314.9	322.5	315.9	303.5
120°	302.6	322.5	295.0	280.8	275.1	317.8	338.6	337.7	332.0	318.7	293.1
122.5°	452.4	455.3	457.2	499.9	484.7	526.4	538.8	522.6	522.6	539.7	487.5
125°	705.7	708.6	706.7	725.6	715.2	755.0	771.2	770.2	760.7	752.2	701.0
127.5°	713.3	713.3	706.7	696.2	705.7	744.6	745.5	781.6	769.3	746.5	699.1
130°	498.0	501.8	525.5	533.1	546.4	554.9	545.4	576.7	582.4	578.6	546.4
132.5°	412.6	419.3	444.9	454.3	462.9	463.8	460.0	484.7	490.4	490.4	476.2
135°	356.6	364.2	367.1	362.3	374.7	384.2	391.7	411.7	409.8	406.0	393.6
137.5°	311.1	314.0	305.4	295.0	301.6	329.1	344.3	365.2	364.2	357.6	336.7
140°	262.7	263.7	258.9	254.2	260.8	284.6	298.8	321.6	318.7	314.0	289.3
142.5°	199.2	202.0	214.4	223.9	240.0	289.3	281.7	301.6	315.9	327.2	270.3
145°	209.6	205.8	203.9	214.4	235.2	306.4	284.6	310.2	316.8	324.4	258.9
147.5°	241.9	243.8	240.9	234.3	262.7	285.5	273.2	295.9	299.7	297.8	271.3
150°	189.7	192.6	193.5	190.7	225.8	224.8	212.5	229.5	231.4	231.4	213.4
152.5°	154.6	155.6	153.7	151.8	174.5	170.7	165.0	170.7	169.8	168.8	165.0
155°	147.0	147.0	145.1	146.1	161.3	157.5	153.7	157.5	155.6	152.7	148.9
157.5°	135.6	136.6	136.6	139.4	148.9	142.3	138.5	140.4	138.5	136.6	136.6
160°	128.1	128.1	129.0	132.8	138.5	131.8	129.0	129.9	129.0	127.1	128.1
162.5°	125.2	125.2	126.2	128.1	129.0	125.2	122.4	122.4	122.4	122.4	125.2
165°	123.3	123.3	123.3	124.3	124.3	121.4	120.5	121.4	122.4	123.3	127.1
167.5°	127.1	127.1	127.1	127.1	126.2	124.3	123.3	124.3	125.2	126.2	129.0
170°	132.8	131.8	131.8	130.9	129.9	128.1	127.1	126.2	126.2	127.1	128.1
172.5°	136.6	136.6	135.6	135.6	134.7	132.8	130.9	129.9	129.9	129.9	129.9
175°	141.3	141.3	141.3	141.3	140.4	138.5	137.5	135.6	135.6	135.6	135.6
177.5°	147.0	147.0	147.0	147.0	145.1	143.2	141.3	139.4	139.4	139.4	138.5
180°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	68.3	67.3	64.5	63.6	62.6	60.7	58.8	57.9	56.9	56.9	57.9
5°	91.1	90.1	90.1	87.3	84.4	79.7	77.8	77.8	78.7	79.7	81.6
7.5°	114.8	116.7	118.6	113.8	105.3	93.9	87.3	89.2	93.9	97.7	97.7
10°	132.8	132.8	139.4	133.7	119.5	105.3	95.8	93.9	94.9	95.8	96.8
12.5°	158.4	158.4	154.6	139.4	125.2	111.0	103.4	101.5	101.5	97.7	96.8
15°	177.4	171.7	158.4	144.2	131.8	117.6	109.1	106.2	103.4	100.5	99.6
17.5°	188.8	178.3	160.3	147.0	134.7	123.3	114.8	109.1	106.2	107.2	107.2
20°	202.0	190.7	174.5	160.3	145.1	129.9	119.5	111.0	108.1	109.1	108.1
22.5°	212.5	201.1	185.0	168.8	152.7	136.6	124.3	113.8	110.0	111.0	111.0
25°	224.8	215.3	198.2	179.3	159.4	144.2	131.8	119.5	113.8	112.9	112.9
27.5°	237.1	230.5	212.5	189.7	168.8	150.8	138.5	124.3	117.6	114.8	114.8
30°	253.3	245.7	227.6	200.1	177.4	160.3	147.0	131.8	122.4	117.6	116.7
32.5°	278.9	270.3	248.5	219.1	186.9	169.8	155.6	138.5	126.2	120.5	119.5
35°	362.3	349.1	314.9	280.8	228.6	189.7	166.0	144.2	129.9	122.4	121.4
37.5°	414.5	382.3	336.7	314.0	257.1	232.4	200.1	165.0	135.6	126.2	124.3
40°	498.9	454.3	397.4	352.9	250.4	254.2	234.3	205.8	161.3	132.8	129.9
42.5°	570.1	514.1	427.8	369.9	251.4	265.6	250.4	226.7	193.5	157.5	151.8
45°	702.9	630.8	497.0	397.4	258.0	282.7	263.7	239.0	209.6	185.0	182.1
47.5°	949.5	851.8	621.3	443.0	301.6	328.2	294.0	261.8	235.2	206.8	202.0
50°	1299.5	1182.8	764.5	479.0	376.6	432.5	370.9	316.8	286.5	265.6	262.7
52.5°	1702.6	1580.3	869.8	545.4	467.6	561.5	490.4	427.8	387.9	387.9	393.6
55°	2171.2	2048.8	954.2	637.4	579.6	703.8	627.0	575.8	556.8	637.4	659.2
57.5°	2636.0	2480.4	1011.1	731.3	710.4	870.8	778.7	735.1	770.2	1009.2	1083.2
60°	3060.0	2802.9	1055.7	820.5	822.4	1003.5	935.3	932.4	986.5	1291.9	1385.8
62.5°	3304.7	2954.7	1052.9	871.7	887.8	1086.1	1029.2	1044.3	1074.7	1339.3	1410.5
65°	3472.6	3026.8	1031.1	894.5	915.3	1115.5	1044.3	1018.7	998.8	1185.7	1254.0
67.5°	3356.8	2857.9	981.7	861.3	898.3	1072.8	978.9	905.8	867.0	961.8	1008.3
70°	2811.4	2383.7	868.9	774.9	809.1	903.9	813.8	741.8	701.0	752.2	774.0
72.5°	2129.5	1813.6	783.5	724.7	709.5	747.4	662.1	581.4	556.8	590.0	594.7
75°	1696.0	1419.0	720.9	655.4	595.7	632.7	528.3	430.6	416.4	416.4	408.8
77.5°	1272.0	1051.9	614.6	510.3	439.2	499.9	393.6	299.7	280.8	277.0	266.5
80°	852.7	716.1	413.6	338.6	315.9	370.9	279.8	220.1	221.0	220.1	207.7
82.5°	595.7	553.0	335.8	295.0	270.3	292.1	253.3	211.5	209.6	211.5	198.2
85°	528.3	506.5	325.3	304.5	278.9	281.7	242.8	200.1	201.1	204.9	193.5
87.5°	507.5	482.8	326.3	294.0	272.2	260.8	220.1	185.0	190.7	194.4	185.0
90°	457.2	432.5	299.7	265.6	242.8	226.7	194.4	175.5	183.1	186.9	178.3
92.5°	396.5	370.9	249.5	234.3	228.6	228.6	203.9	186.9	191.6	193.5	185.9
95°	341.5	316.8	222.0	205.8	201.1	202.0	182.1	167.9	170.7	169.8	164.1
97.5°	276.0	260.8	193.5	183.1	178.3	176.4	163.1	152.7	158.4	162.2	157.5
100°	243.8	236.2	186.9	179.3	172.6	171.7	160.3	153.7	158.4	164.1	160.3
102.5°	227.6	222.0	178.3	167.9	163.1	161.3	153.7	146.1	150.8	156.5	153.7
105°	214.4	205.8	170.7	161.3	154.6	153.7	146.1	136.6	139.4	147.0	145.1
107.5°	203.0	197.3	169.8	159.4	150.8	150.8	142.3	134.7	135.6	138.5	138.5
110°	212.5	205.8	176.4	168.8	157.5	153.7	151.8	146.1	141.3	139.4	139.4



REPORT NUMBER: P856123
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	262.7	250.4	221.0	212.5	193.5	180.2	167.9	156.5	148.9	146.1	144.2
115°	310.2	295.9	260.8	239.0	213.4	193.5	176.4	164.1	152.7	148.9	152.7
117.5°	319.7	281.7	227.6	209.6	194.4	182.1	172.6	163.1	154.6	157.5	154.6
120°	316.8	270.3	229.5	255.2	229.5	201.1	178.3	178.3	175.5	161.3	164.1
122.5°	487.5	455.3	406.0	390.8	318.7	291.2	248.5	212.5	177.4	157.5	148.0
125°	667.8	636.5	560.6	502.7	430.6	354.8	272.2	209.6	164.1	145.1	148.0
127.5°	671.6	643.1	571.0	473.3	378.5	303.5	226.7	185.9	160.3	148.0	146.1
130°	523.6	496.1	434.4	359.5	299.7	250.4	203.9	167.9	145.1	135.6	132.8
132.5°	453.4	428.7	371.8	303.5	259.9	221.0	182.1	146.1	130.9	124.3	125.2
135°	381.3	351.9	297.8	260.8	233.3	198.2	163.1	133.7	126.2	124.3	123.3
137.5°	323.4	302.6	264.6	236.2	209.6	178.3	143.2	125.2	122.4	124.3	122.4
140°	275.1	258.0	237.1	212.5	180.2	150.8	128.1	119.5	124.3	125.2	124.3
142.5°	237.1	220.1	198.2	165.0	149.9	136.6	130.9	124.3	124.3	123.3	122.4
145°	198.2	175.5	165.0	169.8	160.3	147.0	136.6	123.3	118.6	118.6	119.5
147.5°	227.6	203.9	190.7	180.2	162.2	143.2	127.1	114.8	112.9	116.7	115.7
150°	196.3	174.5	165.0	150.8	139.4	125.2	114.8	110.0	111.0	115.7	115.7
152.5°	156.5	141.3	135.6	131.8	126.2	117.6	111.9	110.0	111.9	113.8	113.8
155°	147.0	138.5	131.8	129.0	122.4	115.7	111.0	110.0	111.9	113.8	115.7
157.5°	137.5	134.7	126.2	123.3	117.6	114.8	111.9	111.9	112.9	114.8	116.7
160°	130.9	129.9	122.4	121.4	117.6	115.7	115.7	116.7	117.6	117.6	117.6
162.5°	127.1	127.1	124.3	122.4	121.4	120.5	123.3	124.3	123.3	123.3	123.3
165°	128.1	129.0	126.2	124.3	123.3	125.2	129.9	129.9	128.1	127.1	126.2
167.5°	129.0	129.9	128.1	127.1	127.1	129.0	130.9	129.9	129.0	128.1	127.1
170°	128.1	129.0	129.0	129.9	129.9	129.9	131.8	131.8	129.9	129.0	129.0
172.5°	129.9	130.9	131.8	132.8	133.7	132.8	133.7	133.7	133.7	133.7	134.7
175°	135.6	135.6	136.6	136.6	135.6	136.6	136.6	136.6	137.5	139.4	139.4
177.5°	138.5	138.5	137.5	137.5	136.6	137.5	137.5	137.5	137.5	138.5	137.5
180°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4

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: SP1-2406-133-4

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.

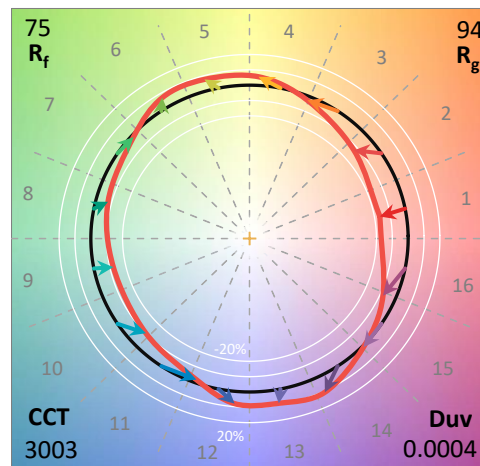
Test Information

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

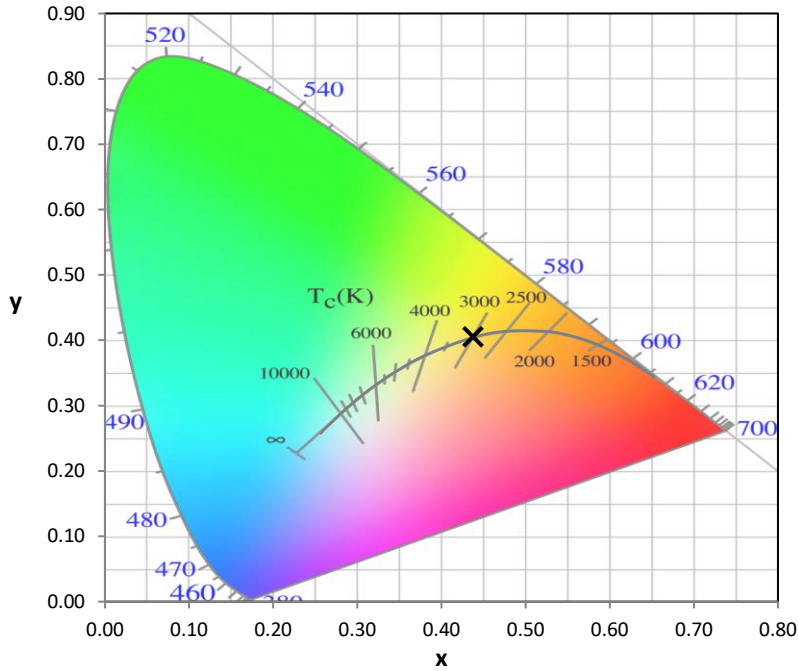
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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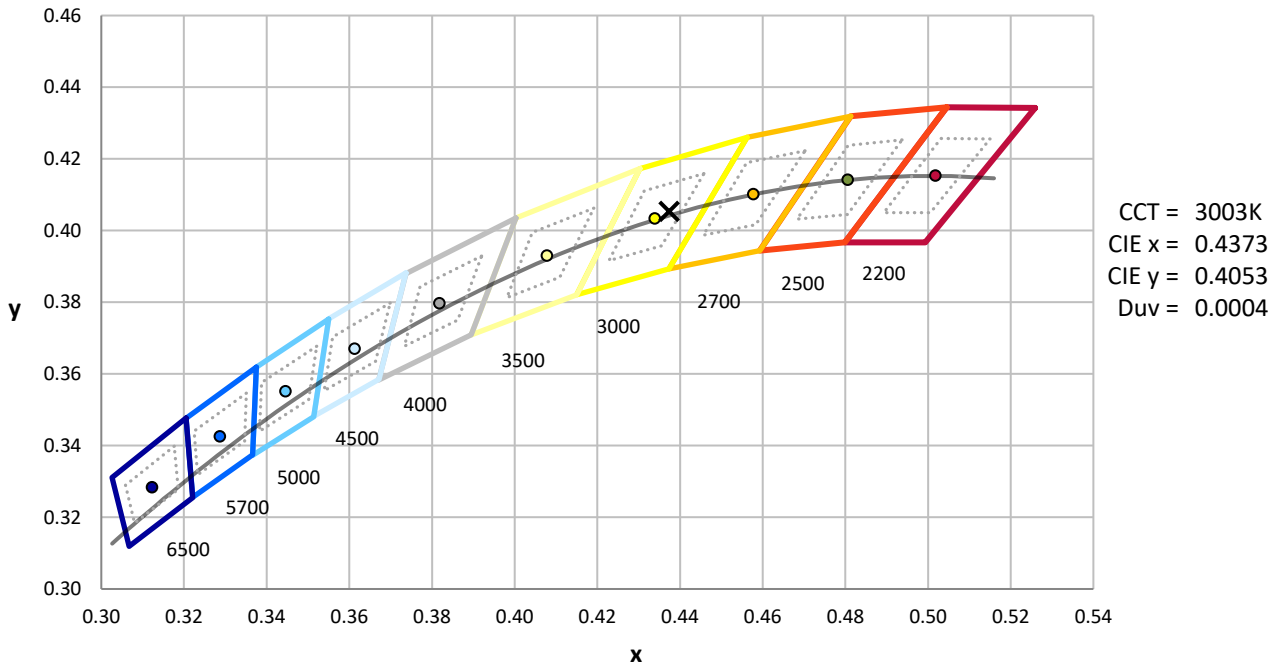
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



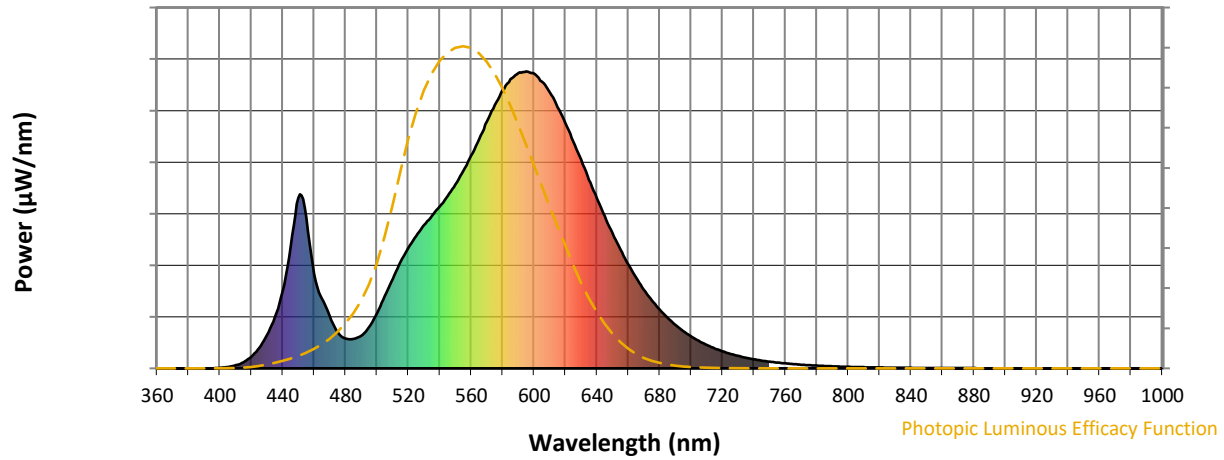
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

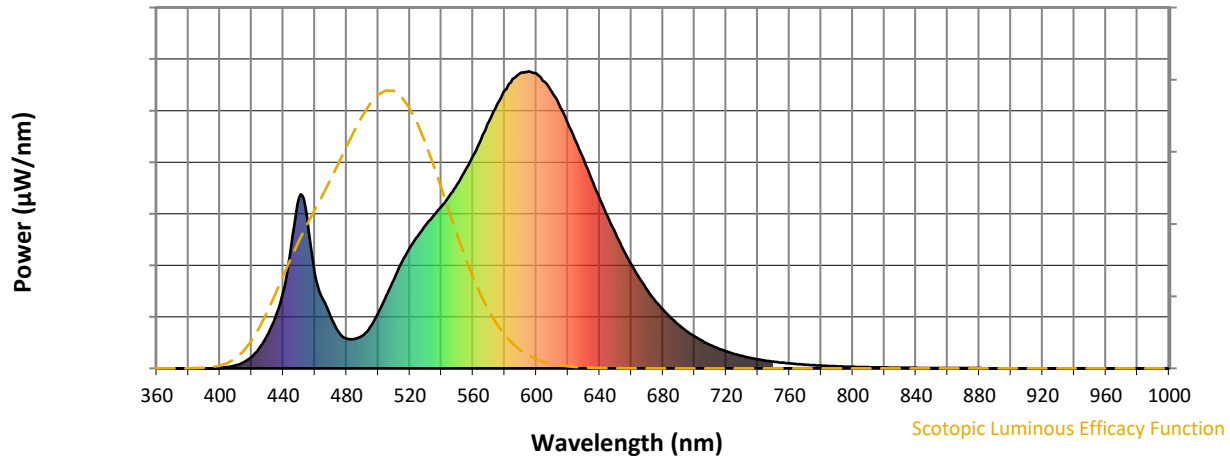


Photopic Lumens: NR

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	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



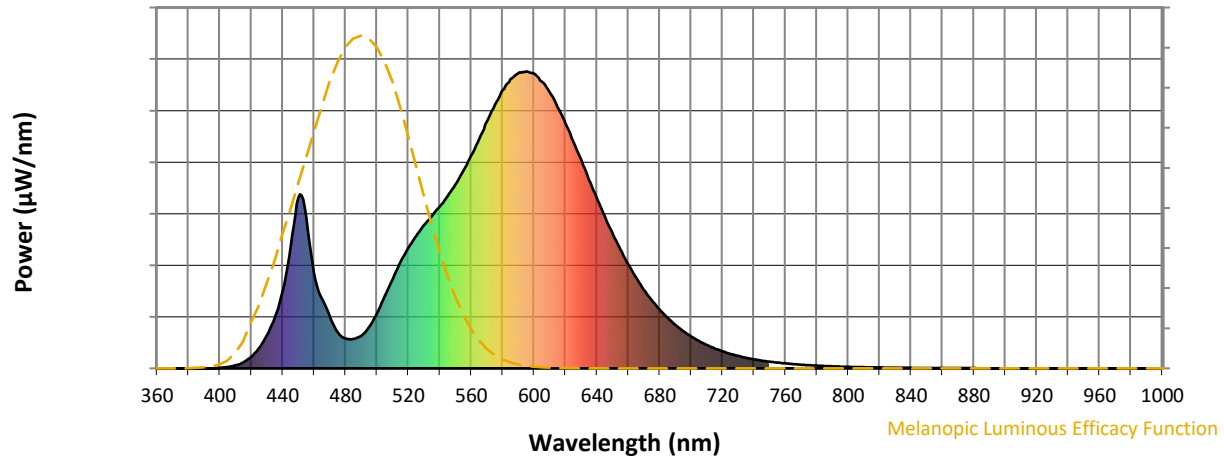
Scotopic Lumens: NR

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

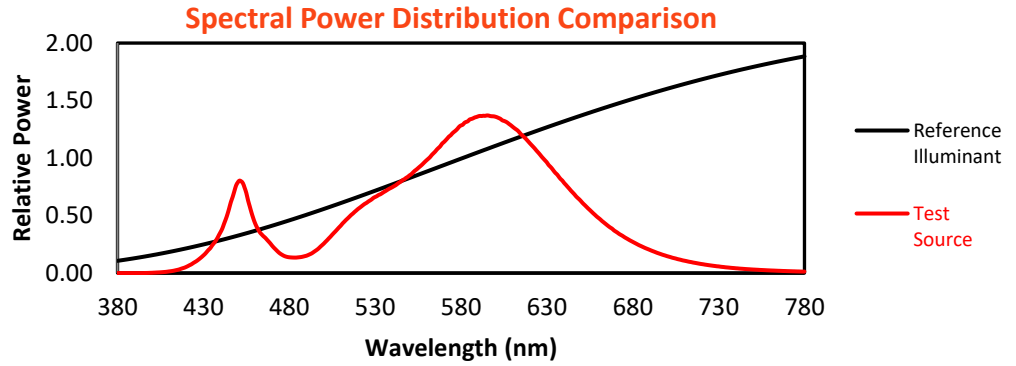
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186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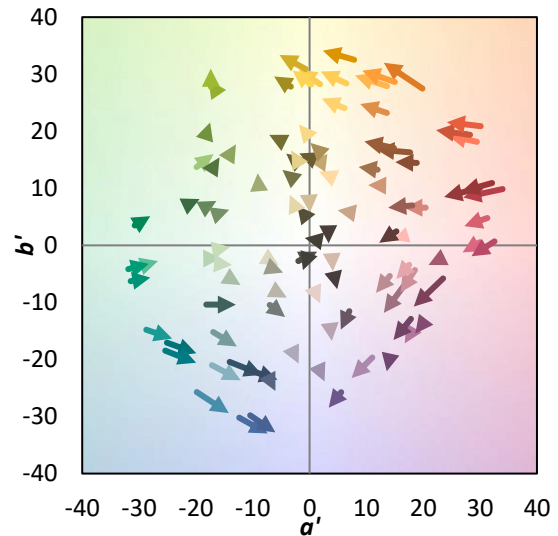
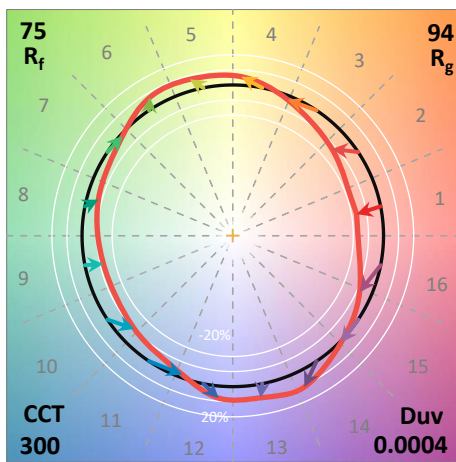
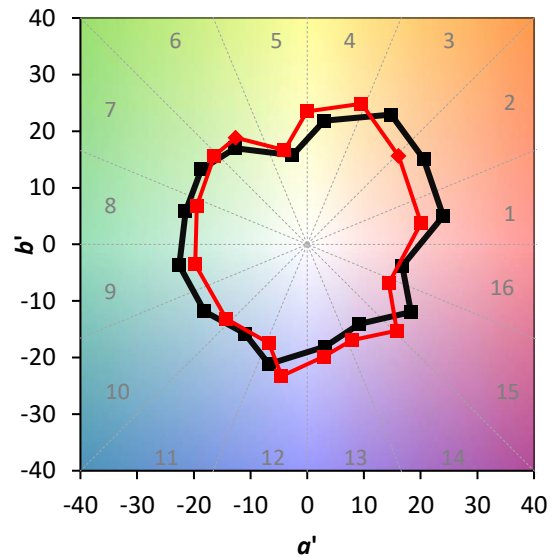
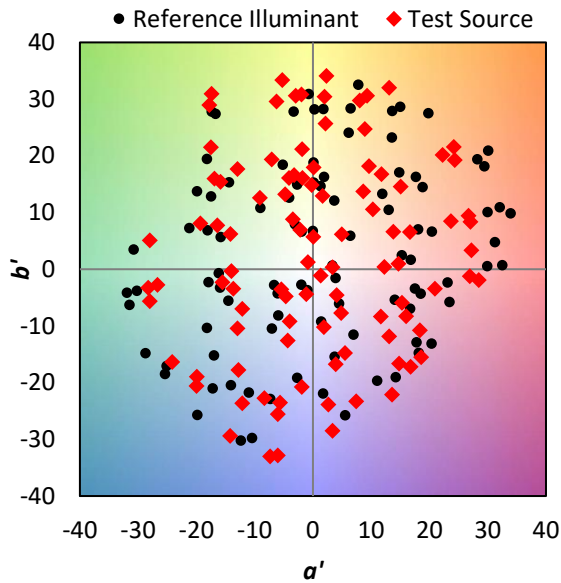
TM-30-18

Summary

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



Color Vector Graphics

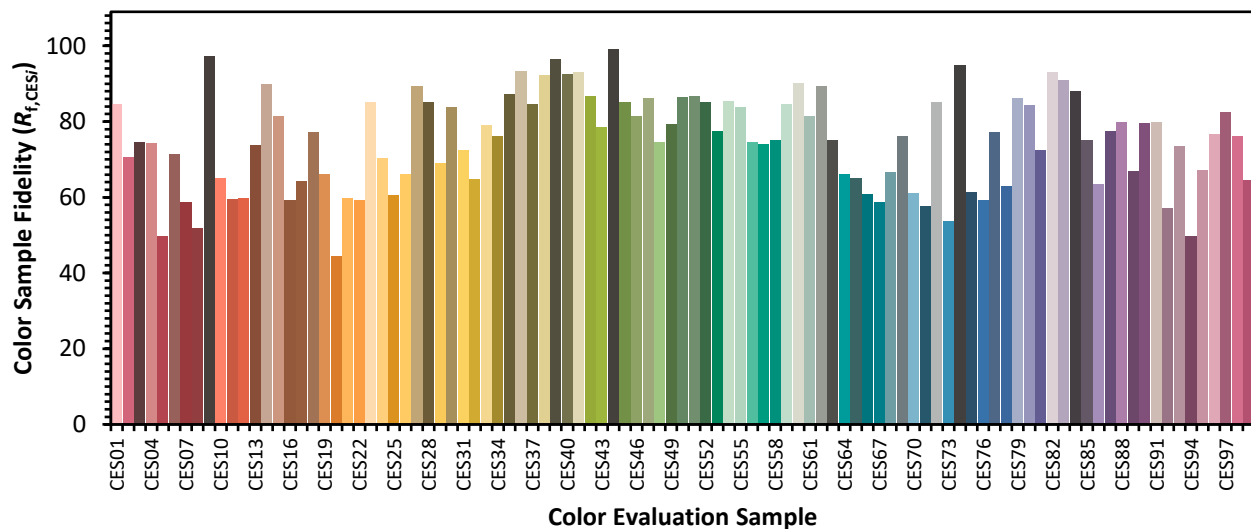


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TM-30-18

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

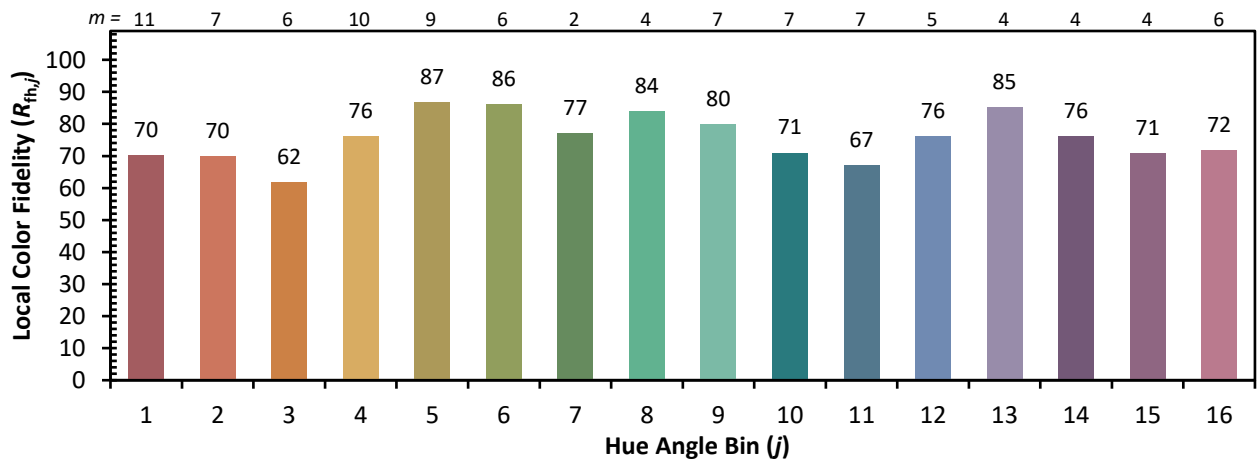
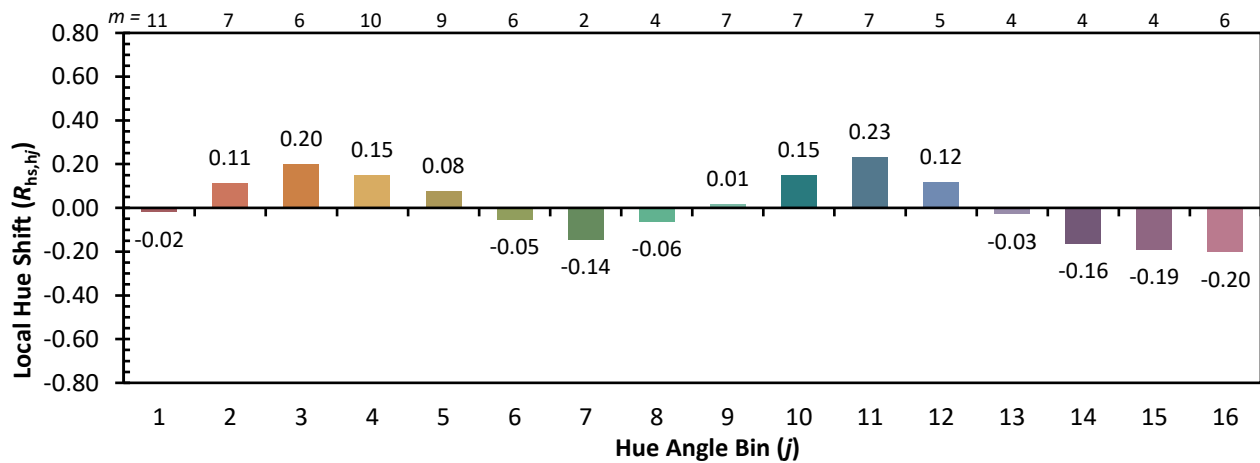
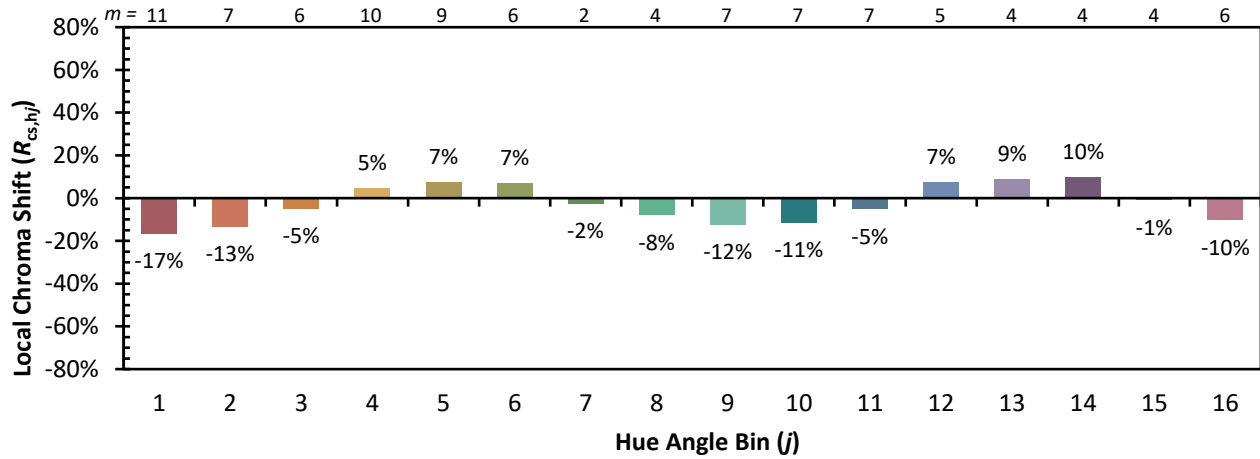
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82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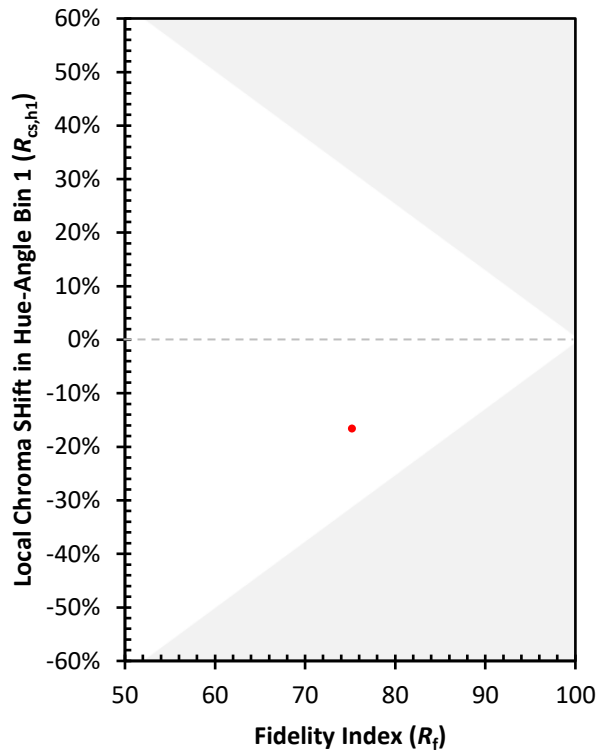
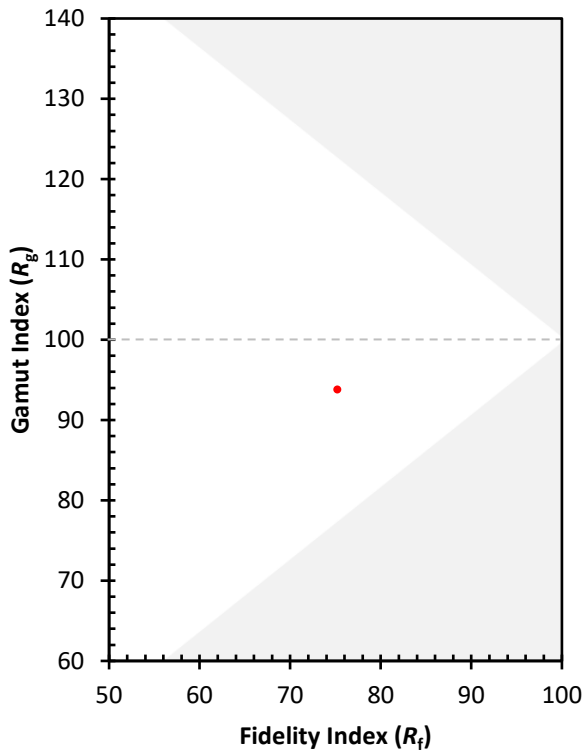
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)