

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: P856196

Luminaire Tested: **FFX-CLB-50-722-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856196
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-722-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

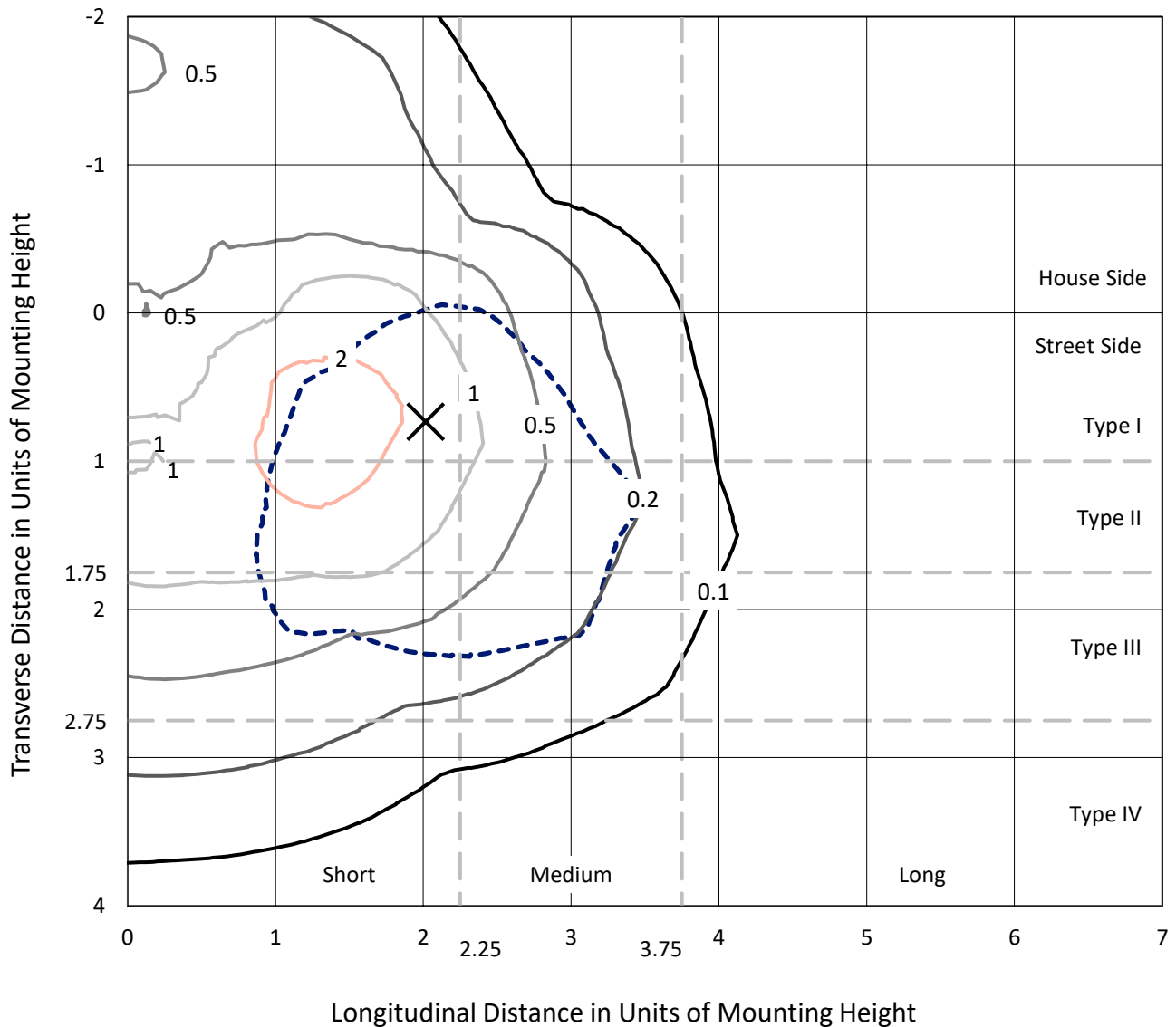
Lumens per Lamp: N/A
Luminaire Lumens: 6766.9 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

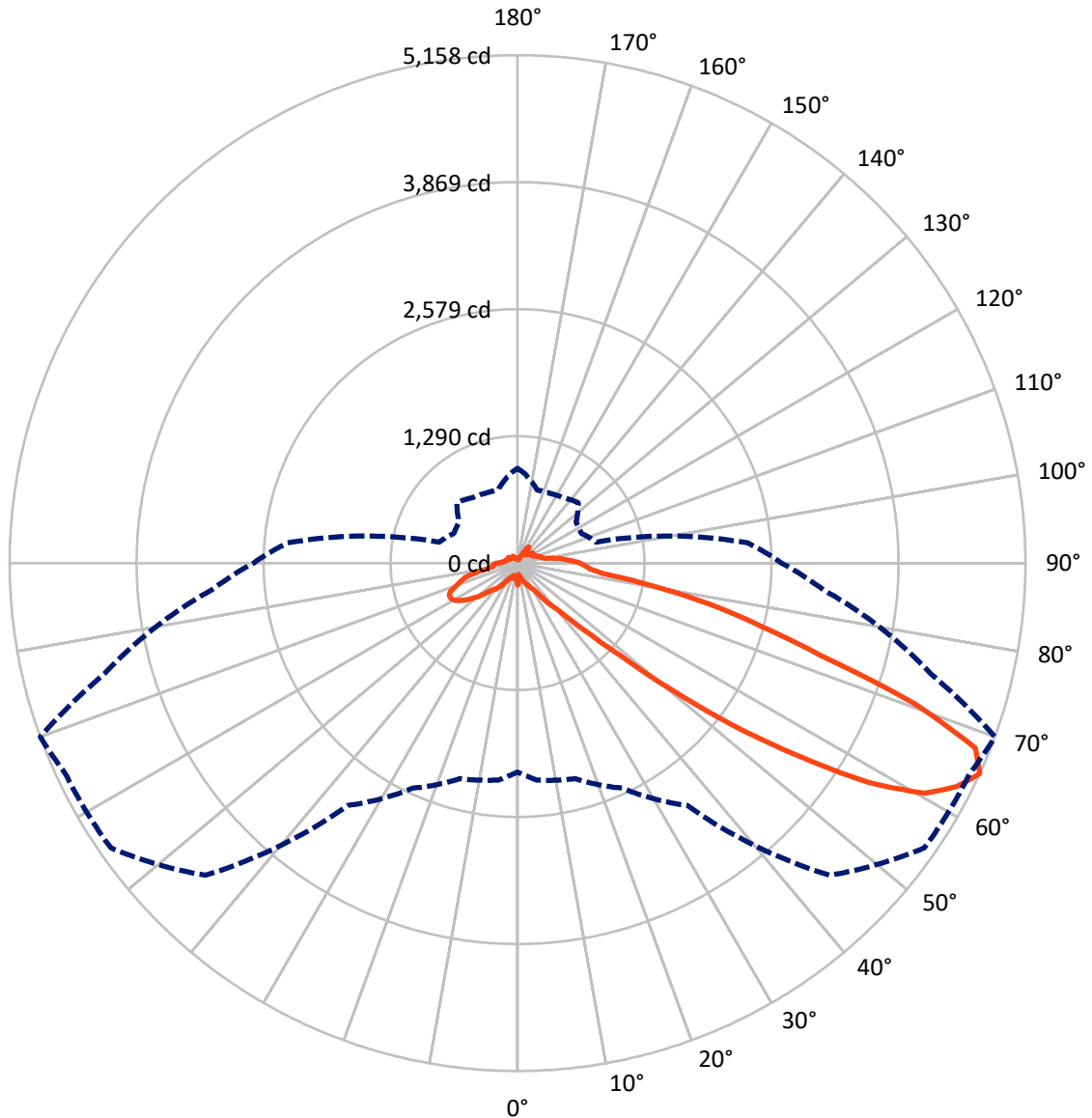
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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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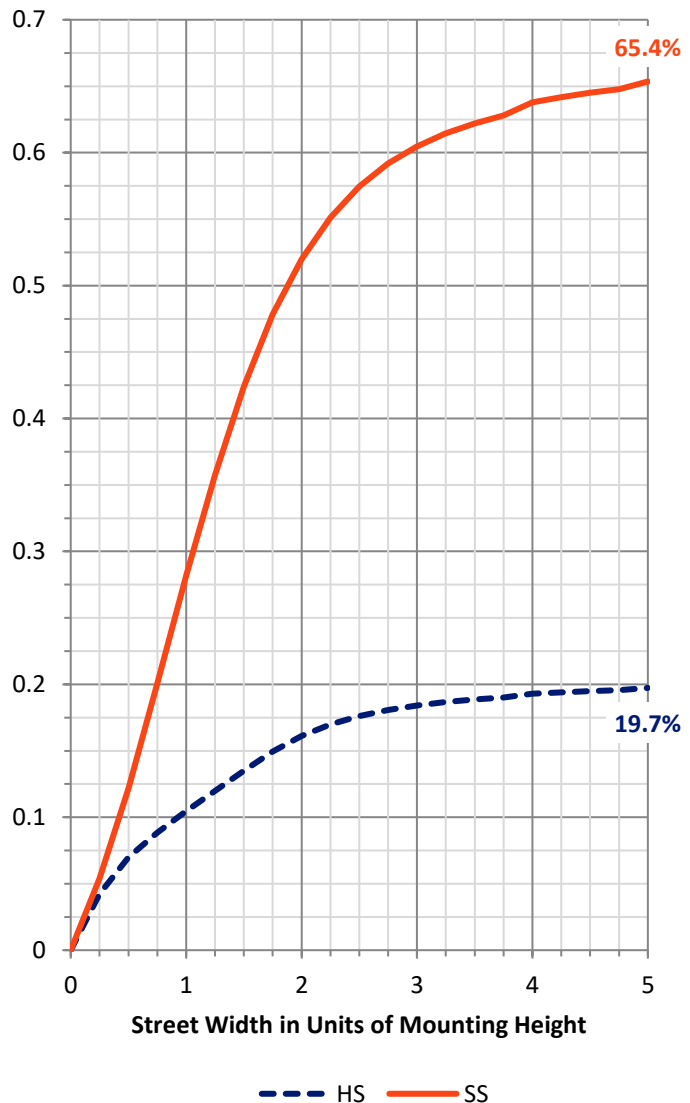
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.9	260.0	1647.9
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	4576.6	542.4	5119.0
	% Fixture	67.6	8.0	75.6
Total	Lumens	5964.5	802.4	6766.9
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.2
10°-20°	45.3	0.7
20°-30°	91.3	1.3
30°-40°	193.3	2.9
40°-50°	450.6	6.7
50°-60°	1343.0	19.8
60°-70°	2152.0	31.8
70°-80°	1236.2	18.3
80°-90°	438.4	6.5
90°-100°	258.6	3.8
100°-110°	156.2	2.3
110°-120°	117.5	1.7
120°-130°	99.5	1.5
130°-140°	66.0	1.0
140°-150°	62.0	0.9
150°-160°	27.5	0.4
160°-170°	11.4	0.2
170°-180°	3.8	0.1
0°-90°	5964.5	88.1
0°-180°	6766.9	100.0



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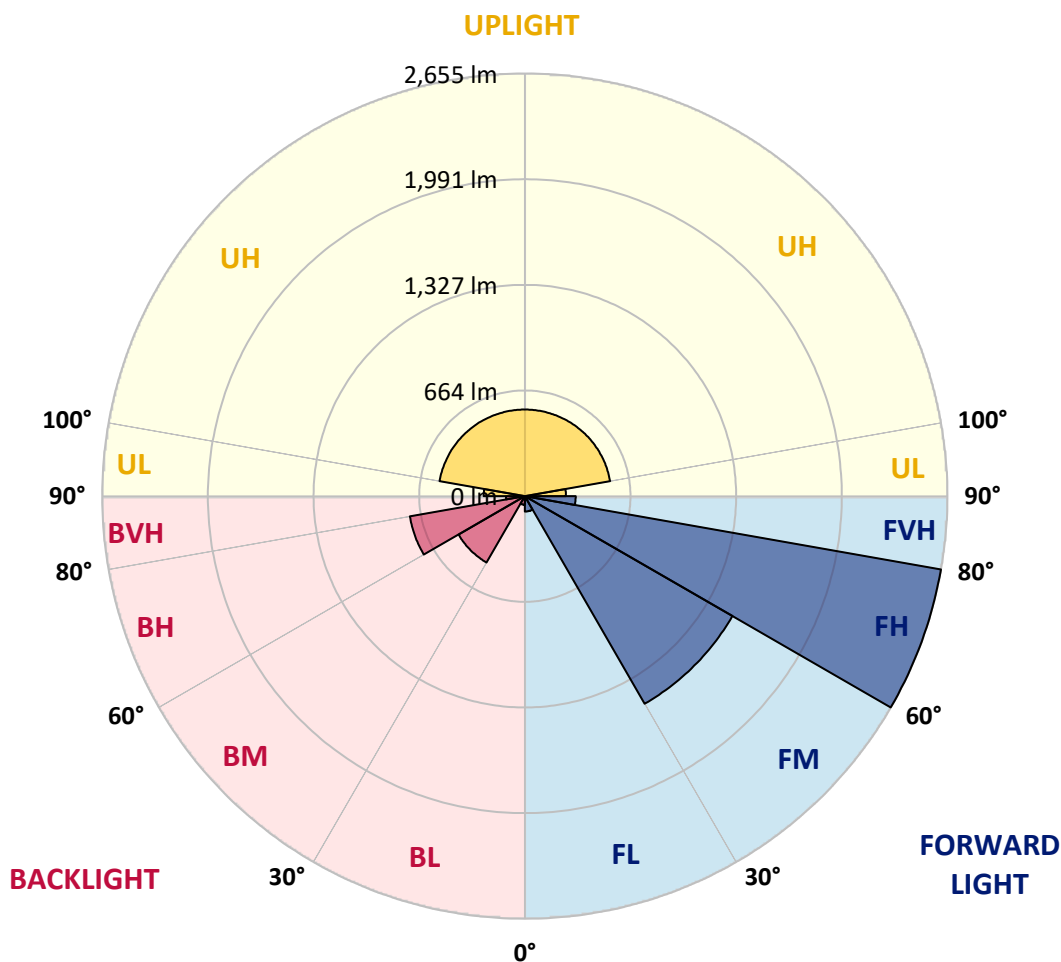
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.0	1.4			
FM (30°-60°)	1505.7	22.3			
FH (60°-80°)	2654.6	39.2			G2/5000
FVH (80°-90°)	319.4	4.7			G3/500
BL (0°-30°)	54.1	0.8	B0/110		
BM (30°-60°)	481.2	7.1	B1/1000		
BH (60°-80°)	733.6	10.8	B2/1000		G2/1000
BVH (80°-90°)	119.1	1.8			G2/225
UL (90°-100°)	258.6	3.8		U3/500	
UH (100°-180°)	543.9	8.0		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°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
2.5°	187.2	185.7	189.3	192.2	195.8	190.8	182.2	190.8	193.6	202.2	208.7
5°	159.2	159.9	163.5	171.4	178.6	177.1	154.9	126.2	117.6	114.0	114.7
7.5°	157.8	157.1	154.9	154.2	158.5	174.3	172.1	151.3	135.5	121.9	108.3
10°	166.4	168.5	170.7	170.7	167.8	157.8	157.1	155.6	149.9	143.4	134.8
12.5°	205.8	208.7	210.8	203.7	194.3	184.3	176.4	163.5	157.8	154.2	147.7
15°	248.9	251.7	248.1	234.5	218.0	199.4	192.2	192.9	185.0	175.7	162.1
17.5°	271.8	270.4	255.3	239.5	226.6	212.3	202.2	195.8	192.9	189.3	175.7
20°	257.5	253.9	244.5	238.1	236.7	228.8	222.3	216.6	213.0	205.1	188.6
22.5°	246.7	246.7	245.3	243.8	252.4	248.9	246.0	238.1	233.1	223.0	198.7
25°	260.3	260.3	261.0	258.9	270.4	270.4	270.4	261.8	255.3	241.0	211.6
27.5°	279.7	279.0	281.1	279.7	289.7	291.9	296.2	289.7	280.4	263.2	225.9
30°	300.5	300.5	302.6	304.1	314.1	319.1	324.2	321.3	309.8	289.0	250.3
32.5°	322.7	322.0	328.5	335.6	341.4	350.7	352.8	360.0	348.5	324.2	286.1
35°	355.0	357.1	374.4	389.4	405.9	411.6	421.7	449.7	438.2	405.2	361.4
37.5°	513.5	502.7	498.4	481.2	479.1	512.8	525.0	551.5	528.5	484.1	417.4
40°	544.3	531.4	525.7	509.2	514.9	584.5	572.3	667.7	611.7	540.7	497.7
42.5°	512.8	510.6	578.0	590.9	583.8	694.2	670.5	847.0	787.4	622.5	574.4
45°	618.9	613.2	641.8	664.8	682.7	881.4	867.0	1052.8	1027.0	758.0	710.7
47.5°	698.5	692.8	725.8	802.5	907.2	1122.3	1206.2	1486.6	1399.2	1042.7	935.2
50°	936.6	933.0	1021.9	1104.4	1277.2	1594.9	1825.1	2127.8	1999.4	1456.5	1258.6
52.5°	1161.8	1173.3	1277.2	1435.7	1618.6	2192.3	2520.8	2733.1	2731.6	1896.9	1615.7
55°	1323.1	1361.9	1484.5	1770.6	2024.5	2722.3	3165.5	3322.5	3454.5	2530.8	1967.9
57.5°	1636.5	1703.9	1821.6	2104.8	2432.6	3363.4	3995.9	3970.1	4207.5	3188.4	2350.8
60°	1958.5	2037.4	2076.9	2337.2	2767.5	3980.9	4566.8	4506.6	4745.4	3760.7	2753.8
62.5°	2058.9	2136.4	2175.1	2458.4	3009.2	4330.9	4830.0	4853.7	5002.1	4168.8	2992.7
65°	2122.0	2211.0	2266.9	2522.2	3004.1	4483.6	5043.0	5065.2	5158.4	4344.5	3116.0
67.5°	2110.6	2210.3	2282.0	2510.7	2837.8	4356.7	4989.9	4889.5	5014.3	4219.0	2986.2
70°	1882.5	1969.3	2041.0	2217.4	2368.7	3670.4	4317.2	4151.6	4280.7	3524.8	2465.6
72.5°	1538.3	1574.1	1636.5	1719.7	1795.0	2723.0	3293.1	3151.1	3225.7	2644.1	1847.4
75°	1263.6	1256.4	1312.4	1372.6	1349.0	1989.4	2605.4	2475.6	2545.2	2008.0	1473.7
77.5°	936.6	933.0	1014.0	1009.0	973.2	1377.6	2065.4	1971.4	1980.8	1483.1	1103.7
80°	563.0	573.7	652.6	668.4	626.1	864.2	1474.5	1430.0	1363.3	1013.3	773.8
82.5°	395.1	411.6	453.2	470.4	449.7	631.1	976.8	945.9	867.0	735.1	545.0
85°	403.0	405.9	410.9	412.4	403.0	566.5	758.0	740.8	735.8	616.0	449.7
87.5°	403.0	409.5	413.8	413.1	396.6	530.7	699.2	672.0	678.4	575.9	434.6
90°	361.4	372.9	372.2	374.4	360.7	479.8	634.0	611.7	620.3	519.2	395.1
92.5°	295.5	303.4	311.2	326.3	306.2	408.1	535.7	514.9	525.7	441.8	336.3
95°	274.7	281.8	286.9	294.7	274.7	362.9	474.0	448.9	453.2	375.1	284.7
97.5°	222.3	226.6	232.4	233.8	219.4	279.0	360.7	339.2	342.1	291.2	223.8
100°	186.5	190.0	195.1	195.1	185.7	230.9	285.4	274.0	272.5	238.1	189.3
102.5°	176.4	177.9	185.7	184.3	175.0	213.0	258.2	251.0	251.7	220.9	177.9
105°	173.5	173.5	181.4	177.9	170.0	203.0	241.7	239.5	238.8	210.1	170.7
107.5°	170.7	170.7	178.6	175.0	168.5	191.5	227.3	220.2	219.4	200.1	161.4
110°	159.2	161.4	170.0	165.7	160.6	180.7	208.7	203.7	203.7	188.6	154.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	141.3	142.7	150.6	147.0	143.4	160.6	185.0	178.6	179.3	169.2	144.1
115°	132.0	134.1	142.0	137.0	134.1	149.9	171.4	167.1	168.5	159.2	136.3
117.5°	132.7	133.4	139.1	139.8	134.1	147.0	158.5	159.9	162.1	156.3	138.4
120°	161.4	157.8	160.6	157.1	154.2	169.2	182.9	184.3	183.6	172.8	137.7
122.5°	162.8	155.6	163.5	158.5	155.6	172.1	187.2	190.8	187.2	177.9	140.6
125°	129.8	132.0	132.7	134.1	137.0	154.9	162.8	163.5	164.2	161.4	136.3
127.5°	114.0	113.3	109.7	110.4	116.9	132.7	138.4	142.7	139.8	138.4	122.6
130°	109.0	110.4	109.7	109.7	113.3	125.5	129.8	136.3	134.1	131.2	111.9
132.5°	100.4	101.8	108.3	116.2	114.7	119.0	120.5	126.9	127.7	127.7	112.6
135°	95.4	96.8	101.8	111.9	109.0	111.2	110.4	116.2	116.9	117.6	106.1
137.5°	97.5	98.2	95.4	96.8	99.0	108.3	111.2	116.9	116.9	114.0	99.0
140°	102.6	102.6	96.1	93.9	98.2	112.6	118.3	127.7	126.2	121.2	102.6
142.5°	94.7	96.1	99.7	104.0	113.3	152.8	152.8	170.7	176.4	177.9	124.1
145°	123.3	124.1	125.5	127.7	145.6	200.1	182.2	195.1	200.1	205.1	149.2
147.5°	142.0	143.4	142.0	136.3	152.8	171.4	162.8	168.5	174.3	175.7	149.9
150°	111.2	109.7	109.0	108.3	126.2	132.0	124.8	124.1	128.4	132.0	116.2
152.5°	81.0	80.3	79.6	78.9	94.7	91.1	86.1	86.1	87.5	88.2	81.8
155°	71.7	71.0	69.6	70.3	80.3	76.7	72.4	71.0	72.4	71.7	68.1
157.5°	58.8	57.4	57.4	60.2	65.3	61.0	58.1	55.9	56.7	55.9	56.7
160°	48.8	48.0	48.8	52.4	55.2	51.6	48.8	47.3	47.3	48.8	51.6
162.5°	43.7	43.0	43.7	45.2	46.6	43.0	40.9	40.9	41.6	44.5	50.2
165°	38.0	38.0	38.7	39.4	40.2	38.0	37.3	37.3	38.7	43.0	49.5
167.5°	36.6	36.6	36.6	36.6	36.6	35.9	35.1	37.3	38.7	40.9	45.2
170°	35.9	35.1	35.9	35.9	35.9	35.9	35.9	38.0	38.0	38.7	40.9
172.5°	36.6	36.6	36.6	37.3	38.7	39.4	38.7	40.2	39.4	39.4	39.4
175°	37.3	37.3	38.0	38.7	39.4	40.2	40.9	40.9	40.9	41.6	41.6
177.5°	37.3	37.3	38.0	38.7	39.4	38.0	36.6	35.9	35.1	35.1	35.1
180°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
2.5°	203.0	185.0	159.9	170.7	203.7	197.2	164.2	144.1	145.6	159.9	161.4
5°	118.3	121.9	138.4	172.8	179.3	148.4	119.8	115.5	139.1	172.1	178.6
7.5°	106.9	106.9	120.5	167.8	188.6	154.9	116.9	105.4	123.3	150.6	154.9
10°	129.1	124.8	126.2	143.4	151.3	124.1	104.7	99.7	109.7	113.3	111.9
12.5°	145.6	148.4	162.1	158.5	124.1	101.1	94.7	93.9	99.7	103.3	102.6
15°	156.3	151.3	141.3	129.8	118.3	105.4	96.1	90.4	83.9	81.0	81.0
17.5°	166.4	156.3	138.4	127.7	116.2	106.9	98.2	89.6	86.8	87.5	87.5
20°	178.6	166.4	149.9	137.7	124.1	111.2	100.4	91.1	88.9	89.6	88.9
22.5°	187.9	177.1	159.9	144.1	129.8	115.5	104.7	95.4	92.5	91.8	91.8
25°	199.4	190.0	172.1	152.8	135.5	121.9	112.6	101.8	96.8	95.4	95.4
27.5°	214.4	206.5	186.5	165.7	145.6	129.8	119.8	108.3	101.1	98.2	97.5
30°	237.4	226.6	204.4	178.6	157.8	141.3	129.1	114.7	106.1	101.1	100.4
32.5°	271.8	258.2	228.8	196.5	171.4	154.2	139.1	121.2	110.4	104.7	104.0
35°	344.9	329.9	292.6	247.4	210.8	175.7	152.0	128.4	114.7	107.6	106.9
37.5°	390.8	363.6	318.4	277.5	233.1	212.3	182.2	150.6	120.5	111.2	109.7
40°	457.5	422.4	365.7	310.5	232.4	231.6	211.6	183.6	142.0	117.6	115.5
42.5°	507.0	461.8	390.8	329.2	234.5	241.0	223.8	199.4	168.5	137.0	133.4
45°	608.1	550.8	438.2	345.7	237.4	251.7	234.5	208.7	181.4	159.2	157.1
47.5°	797.5	717.9	530.0	377.2	269.6	287.6	256.7	226.6	200.1	177.9	172.8
50°	1062.1	966.7	641.1	405.2	324.9	365.7	315.5	269.6	238.1	220.9	215.9
52.5°	1372.6	1265.8	710.7	448.9	391.6	461.8	406.6	352.8	311.2	314.1	311.2
55°	1719.0	1592.8	771.7	514.9	476.9	568.7	508.5	461.8	439.6	502.0	505.6
57.5°	2053.2	1918.4	809.7	584.5	572.3	692.0	621.8	588.8	597.4	780.3	823.3
60°	2372.3	2159.3	839.1	649.7	652.6	788.9	735.1	728.6	755.2	989.7	1054.9
62.5°	2556.6	2282.7	837.6	692.0	702.8	848.4	801.1	804.6	824.7	1024.1	1078.6
65°	2682.1	2345.1	823.3	713.6	724.3	869.9	808.9	781.0	768.1	904.3	962.4
67.5°	2606.8	2224.6	788.9	694.9	709.3	835.5	759.5	689.2	666.9	740.8	775.2
70°	2203.8	1858.8	702.8	631.8	641.1	705.0	640.4	563.7	541.4	580.2	596.0
72.5°	1665.2	1427.1	630.4	583.8	561.5	583.0	519.9	439.6	434.6	455.4	458.3
75°	1330.3	1120.2	574.4	526.4	466.9	489.1	413.1	327.0	320.6	322.0	314.8
77.5°	1002.6	833.3	483.4	414.5	353.6	390.1	306.9	225.9	215.1	210.8	203.0
80°	686.3	578.7	328.5	277.5	251.0	286.1	218.7	165.7	164.9	163.5	154.9
82.5°	486.9	446.8	268.2	235.9	213.0	225.2	190.0	154.9	151.3	152.0	142.7
85°	426.0	404.5	258.9	238.8	216.6	215.9	181.4	144.9	143.4	144.1	135.5
87.5°	407.3	383.7	253.2	228.1	206.5	195.8	159.9	127.7	131.2	133.4	125.5
90°	365.0	340.6	229.5	203.7	182.9	164.2	135.5	115.5	121.2	122.6	115.5
92.5°	307.7	282.6	178.6	163.5	153.5	150.6	126.9	109.7	114.0	114.7	109.0
95°	260.3	237.4	155.6	144.1	137.0	136.3	114.7	99.7	101.8	101.1	96.1
97.5°	209.4	192.9	136.3	125.5	117.6	113.3	98.2	86.8	89.6	91.1	87.5
100°	178.6	169.2	126.9	117.6	108.3	102.6	89.6	80.3	83.2	86.1	83.2
102.5°	167.8	160.6	124.8	114.7	104.7	97.5	85.3	75.3	76.7	80.3	78.2
105°	159.2	152.8	121.2	110.4	101.1	93.2	83.2	71.0	70.3	73.9	73.1
107.5°	149.9	144.1	119.0	106.1	96.1	88.9	79.6	68.1	65.3	67.4	66.7
110°	144.9	139.1	114.7	101.1	90.4	83.9	75.3	66.0	62.4	63.1	63.1



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 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	134.8	128.4	105.4	92.5	83.9	78.2	69.6	63.1	58.8	60.2	61.0
115°	128.4	119.8	96.8	87.5	78.2	73.1	68.1	62.4	57.4	57.4	58.1
117.5°	132.7	116.2	90.4	83.2	78.2	76.7	75.3	66.7	56.7	55.9	55.9
120°	126.9	116.9	98.2	96.1	91.1	86.8	77.5	66.0	55.2	53.8	53.8
122.5°	124.1	121.9	111.2	104.0	94.7	86.1	72.4	60.2	53.1	51.6	51.6
125°	122.6	120.5	107.6	93.9	81.8	73.1	64.5	56.7	52.4	50.2	50.2
127.5°	112.6	102.6	86.8	78.9	71.0	67.4	60.2	55.2	50.2	47.3	47.3
130°	104.0	94.7	81.0	72.4	66.0	63.1	58.1	53.1	48.0	45.2	44.5
132.5°	102.6	93.2	78.9	68.1	62.4	59.5	56.7	50.9	45.2	42.3	41.6
135°	95.4	84.6	70.3	64.5	61.0	58.8	56.7	49.5	43.7	40.9	40.9
137.5°	88.2	77.5	66.7	63.8	61.0	58.8	52.4	45.2	40.9	38.7	38.7
140°	88.9	76.7	68.1	66.0	61.7	55.2	49.5	44.5	40.9	38.0	37.3
142.5°	94.7	79.6	68.8	62.4	59.5	55.9	53.8	48.0	40.9	35.9	34.4
145°	104.0	86.1	77.5	74.6	69.6	63.1	55.2	44.5	37.3	33.0	32.3
147.5°	114.7	96.8	86.8	78.9	68.8	58.1	47.3	38.7	33.0	31.6	30.8
150°	99.7	82.5	74.6	63.8	55.2	46.6	38.7	34.4	31.6	30.8	30.8
152.5°	75.3	61.7	55.2	50.2	45.2	40.9	36.6	33.7	31.6	30.1	30.1
155°	65.3	58.1	51.6	46.6	41.6	37.3	33.7	32.3	30.1	30.1	29.4
157.5°	57.4	53.8	45.2	40.9	37.3	35.1	33.7	31.6	30.8	30.1	30.1
160°	52.4	50.2	41.6	38.0	35.9	34.4	34.4	33.0	30.8	30.1	30.1
162.5°	50.9	48.8	40.2	36.6	34.4	35.1	36.6	35.9	33.0	31.6	31.6
165°	50.2	48.8	40.9	35.9	34.4	35.1	38.7	39.4	35.9	33.7	33.0
167.5°	45.9	45.2	43.0	39.4	37.3	37.3	39.4	40.2	38.7	38.7	38.0
170°	41.6	41.6	42.3	43.0	41.6	39.4	38.0	38.0	40.2	42.3	43.0
172.5°	40.2	40.9	42.3	44.5	44.5	41.6	39.4	38.7	40.9	43.7	44.5
175°	42.3	43.0	43.7	43.7	42.3	41.6	40.9	40.2	41.6	44.5	45.2
177.5°	35.1	35.1	35.9	35.9	35.1	35.9	35.1	33.7	33.7	33.7	33.7
180°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

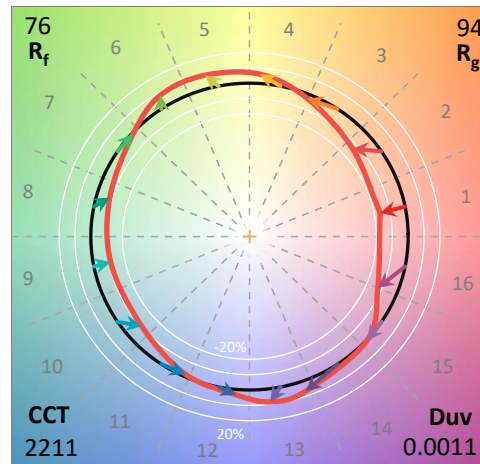
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

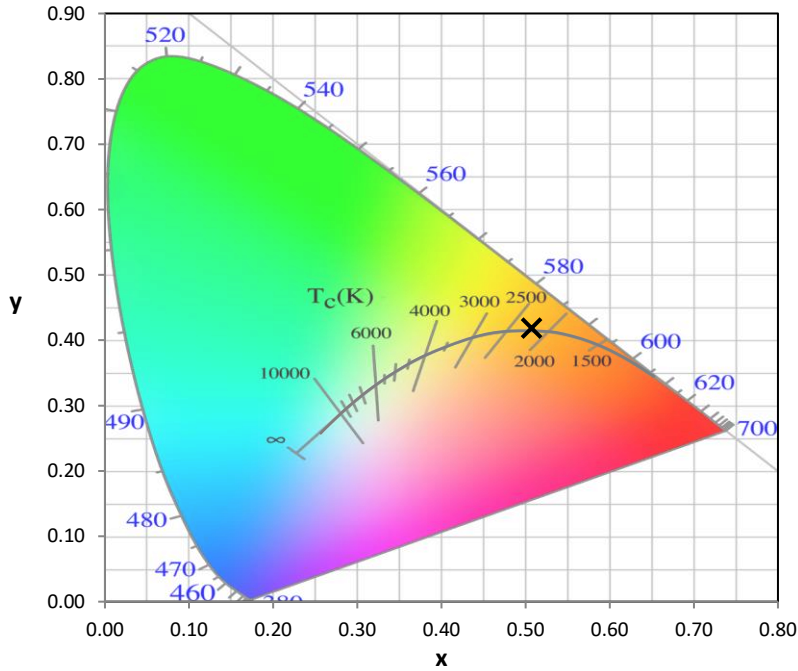
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

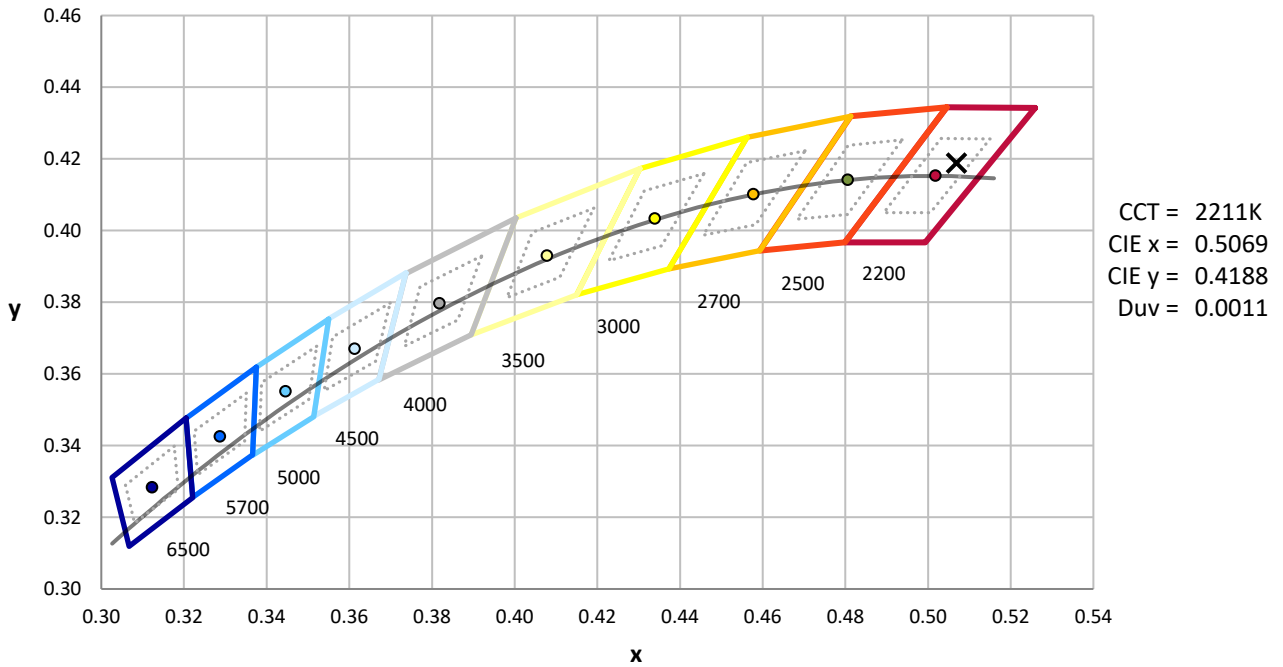
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

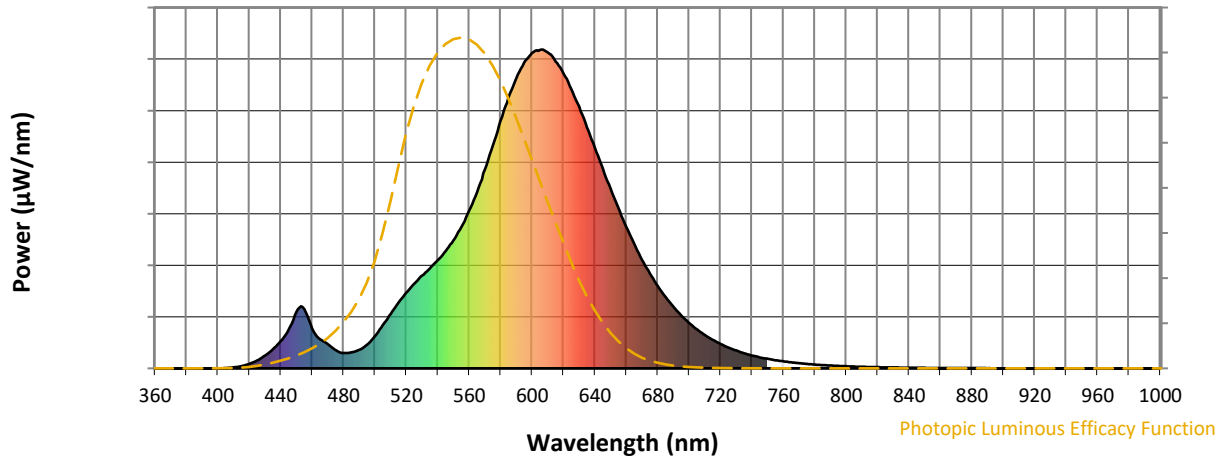


CCT = 2211K
CIE x = 0.5069
CIE y = 0.4188
Duv = 0.0011

Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

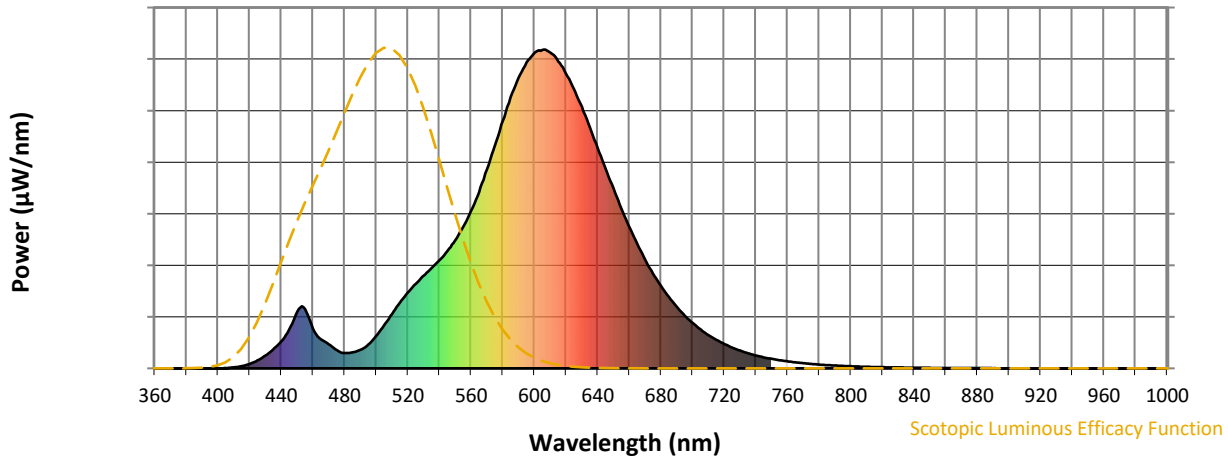


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



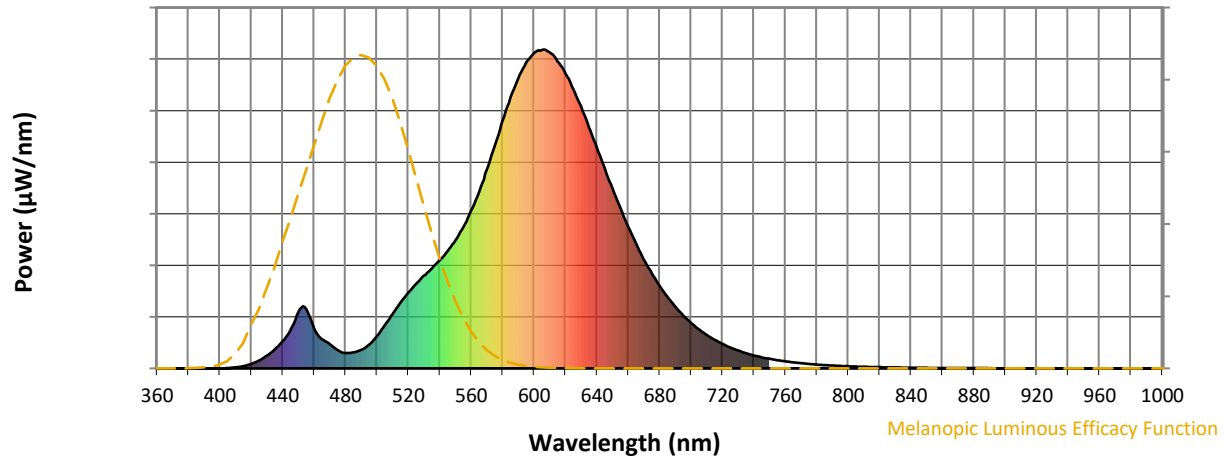
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

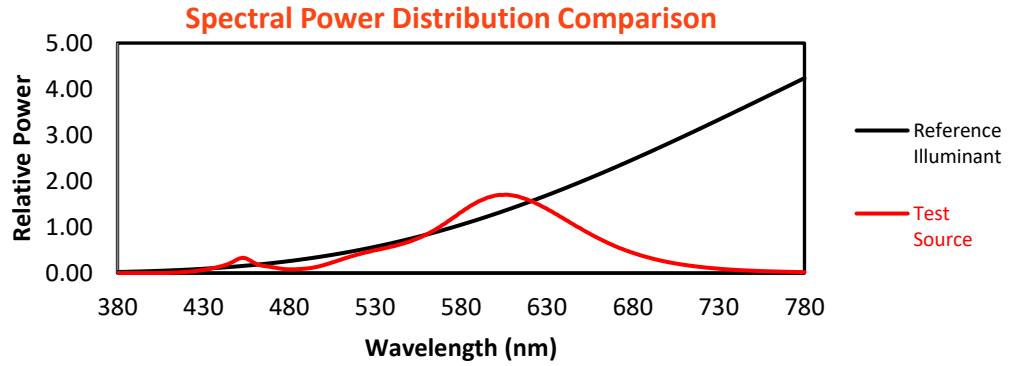
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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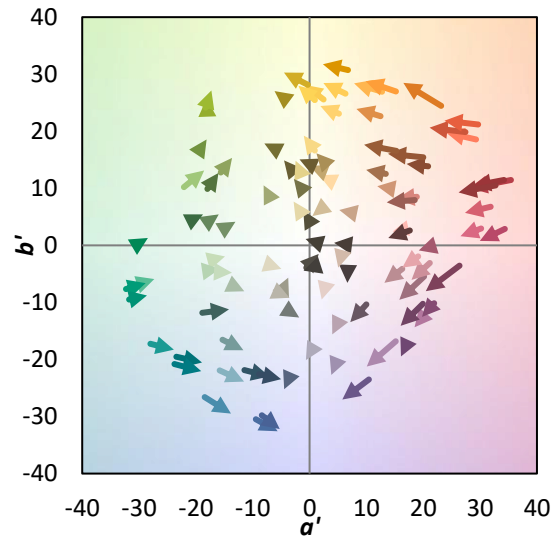
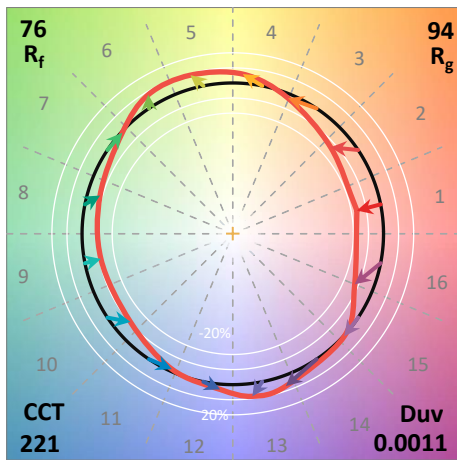
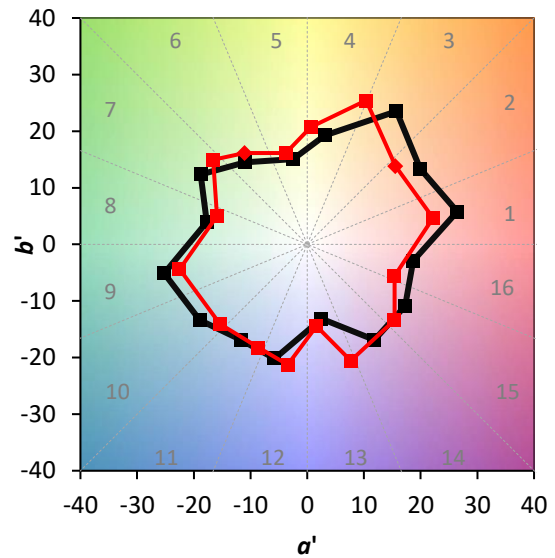
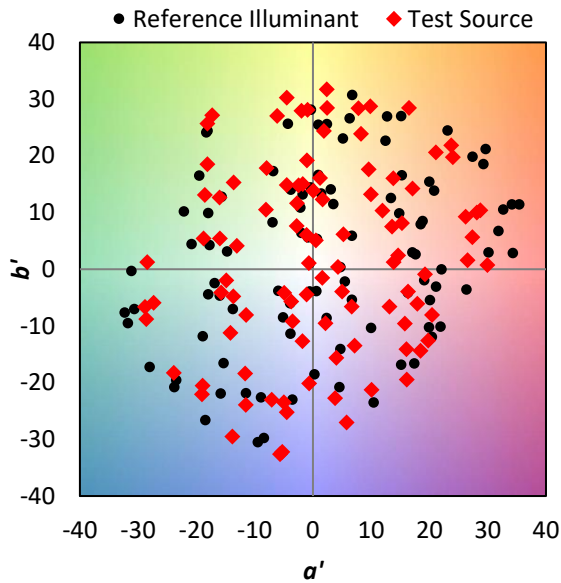
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

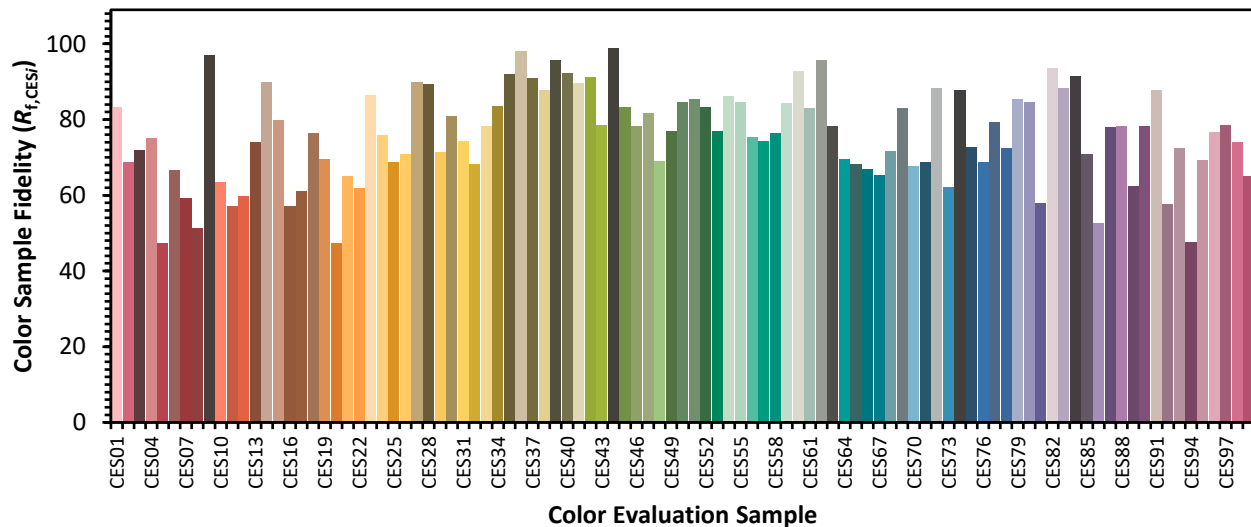


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TM-30-18

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

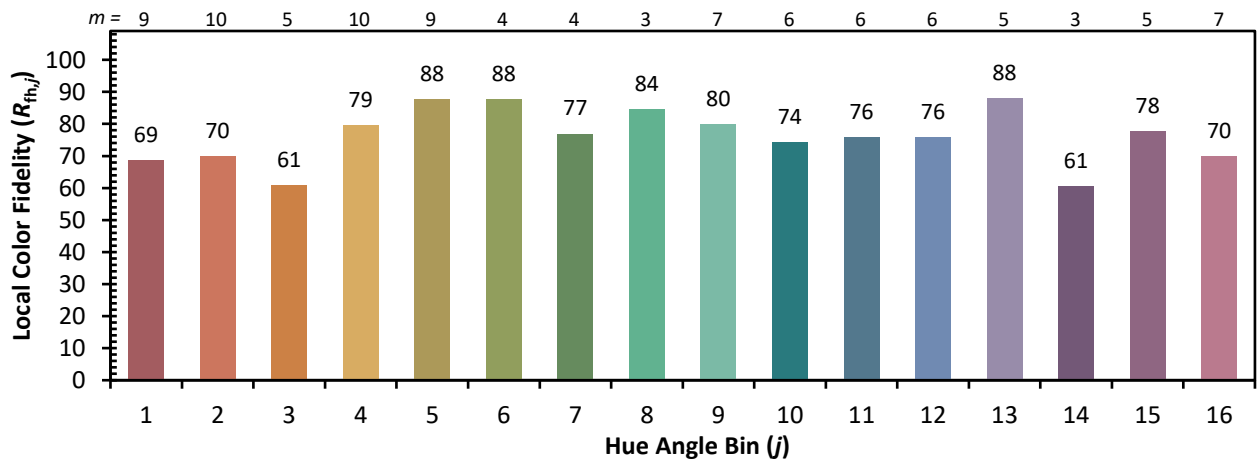
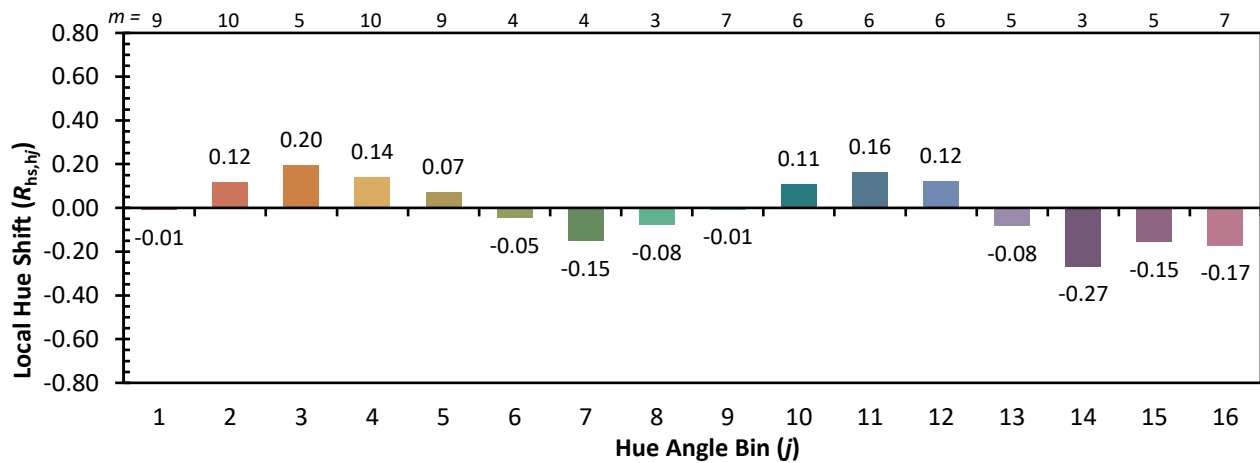
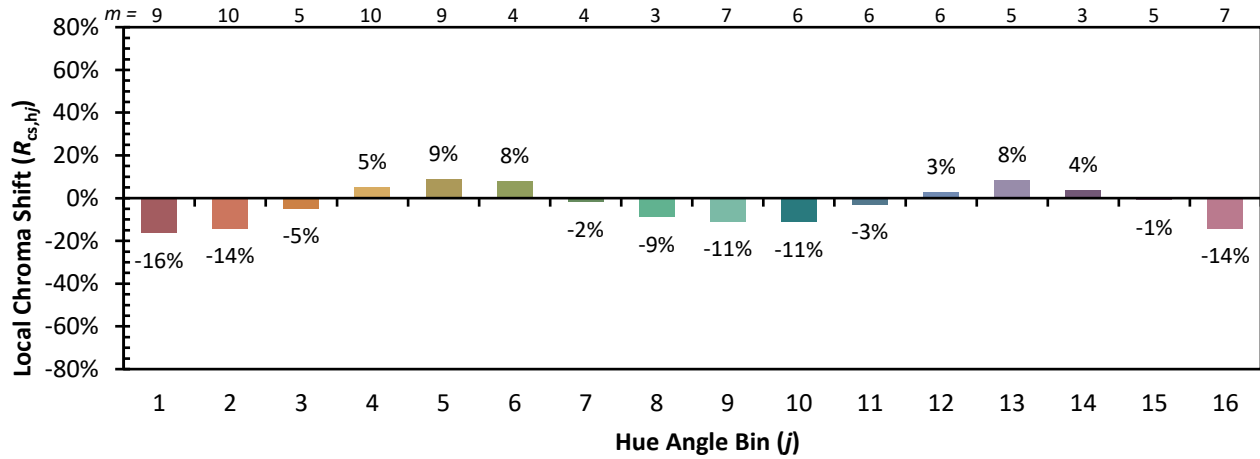
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



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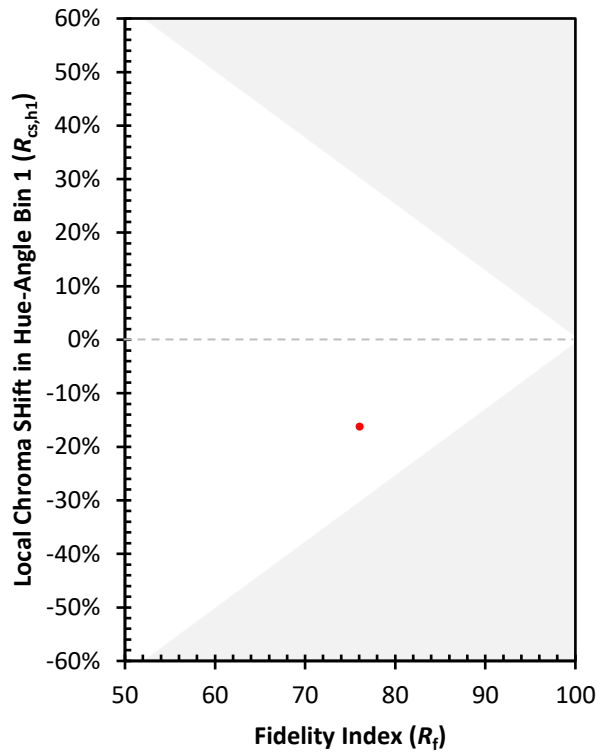
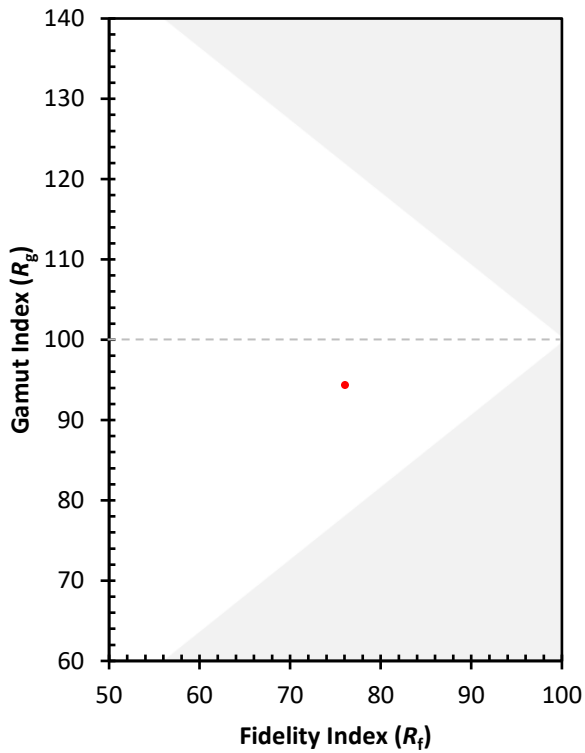
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)