

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: P856191

Luminaire Tested: **FFX-CLB-100-722-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856191
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-722-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

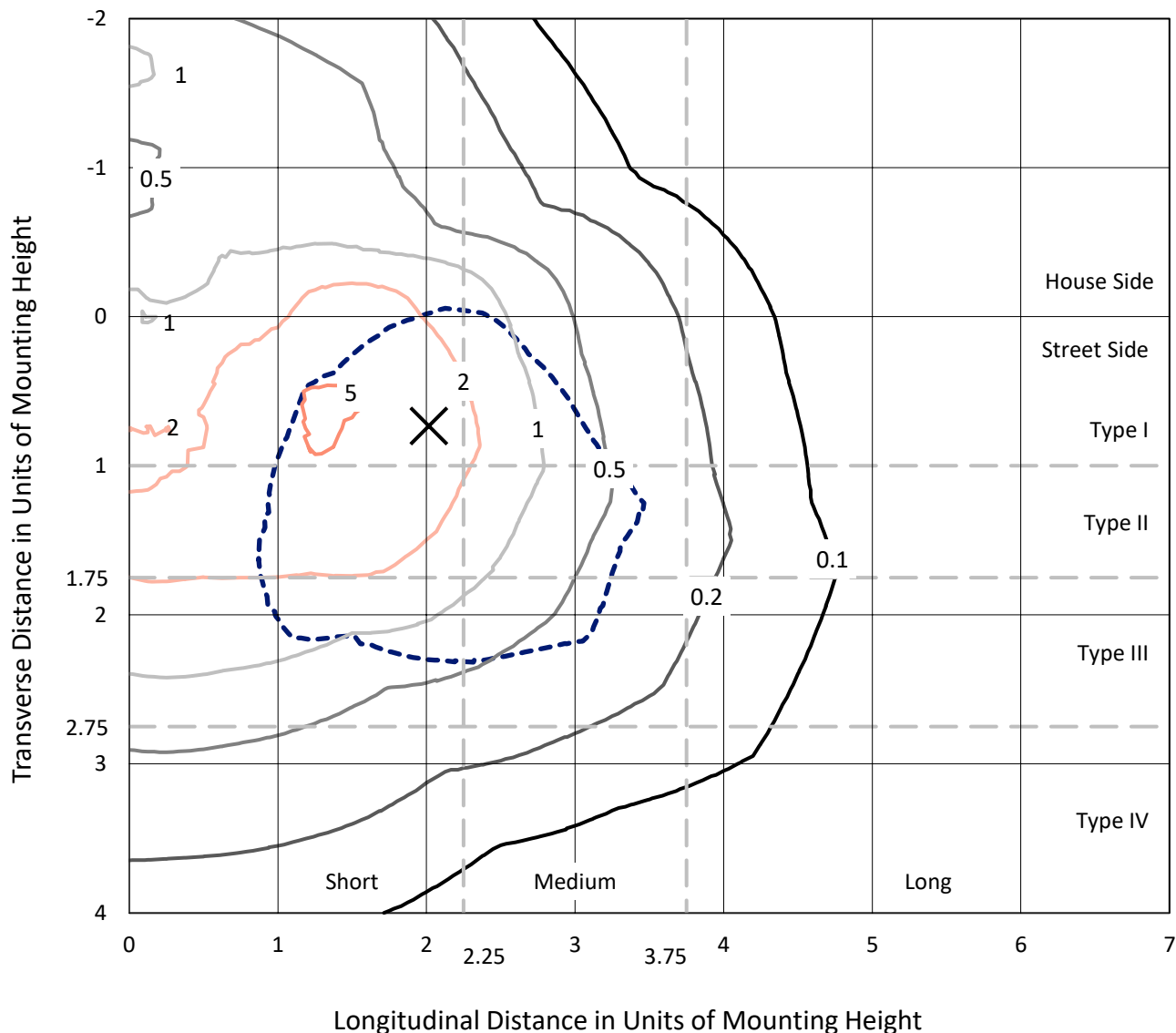
Lumens per Lamp: N/A
Luminaire Lumens: 12645.4 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 96.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2%%
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

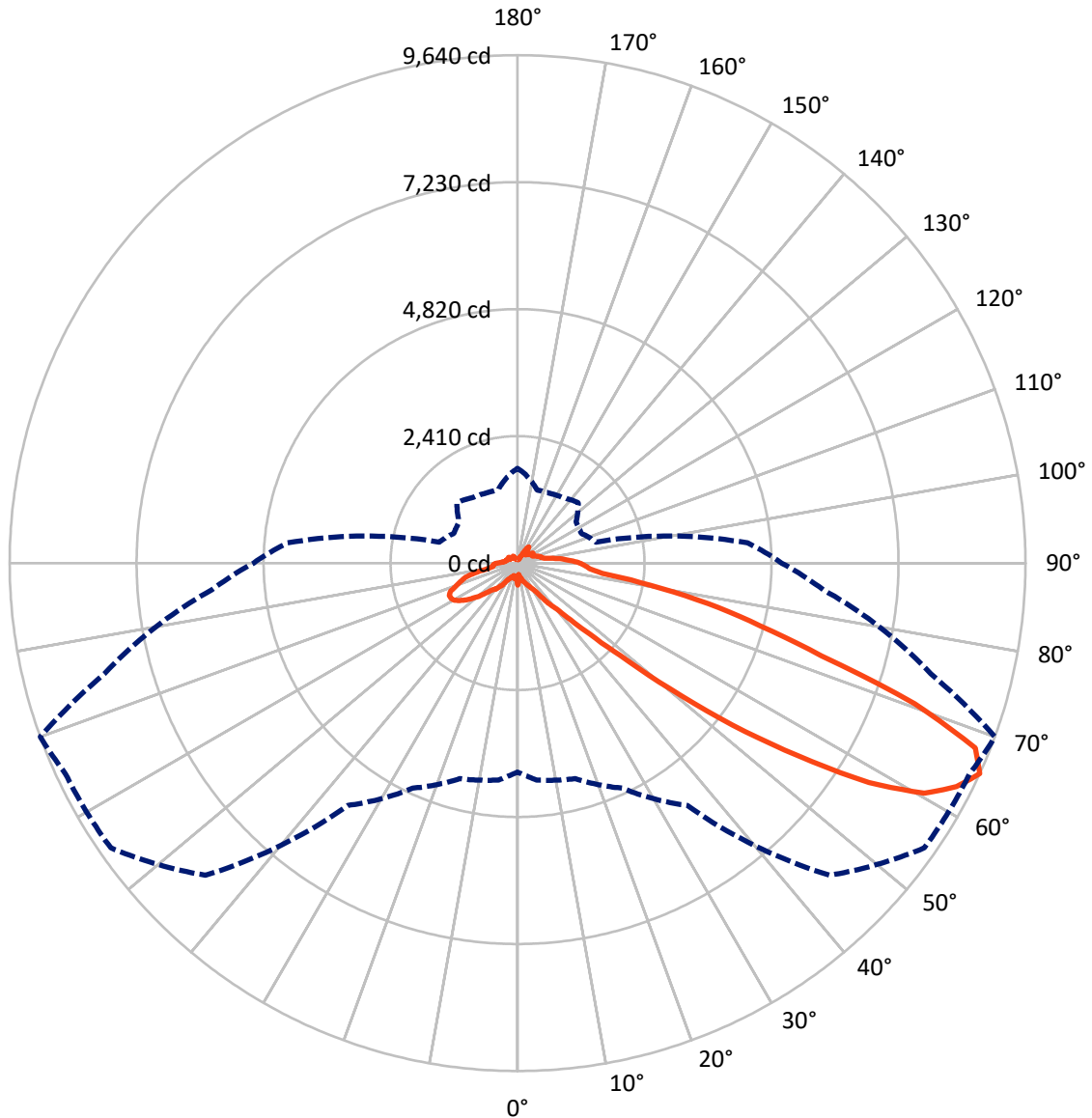
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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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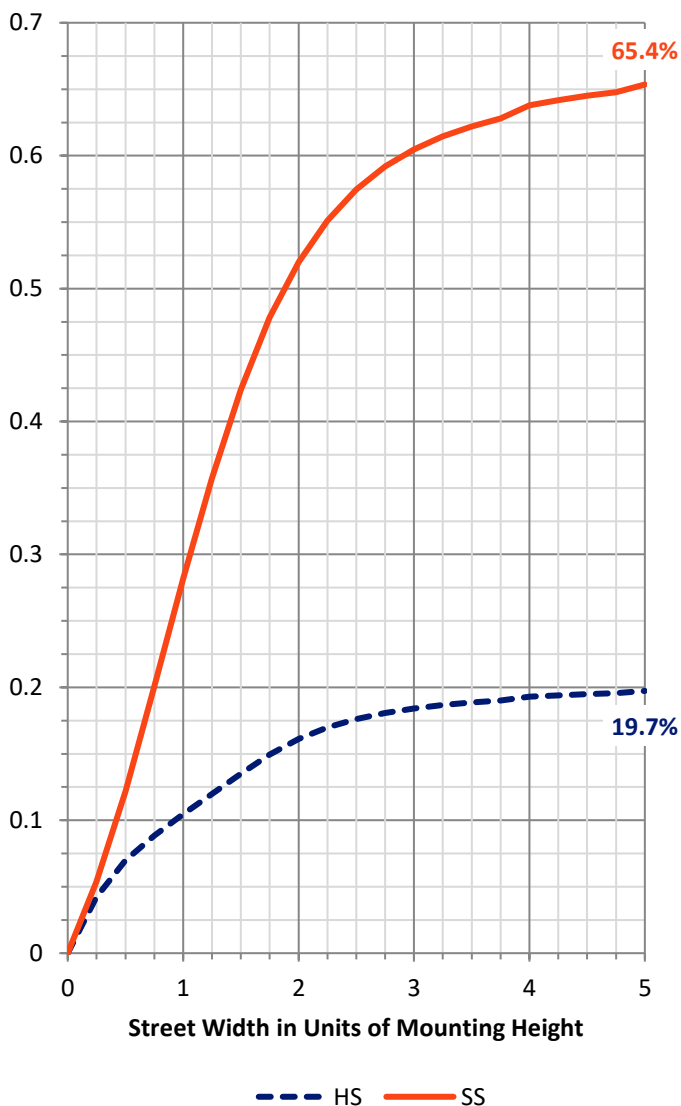
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2593.6	485.9	3079.5
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	8552.3	1013.6	9565.9
	% Fixture	67.6	8.0	75.6
Total	Lumens	11145.8	1499.5	12645.4
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	0.2
10°-20°	84.6	0.7
20°-30°	170.7	1.3
30°-40°	361.1	2.9
40°-50°	842.1	6.7
50°-60°	2509.6	19.8
60°-70°	4021.3	31.8
70°-80°	2310.1	18.3
80°-90°	819.3	6.5
90°-100°	483.2	3.8
100°-110°	291.9	2.3
110°-120°	219.5	1.7
120°-130°	185.9	1.5
130°-140°	123.4	1.0
140°-150°	115.9	0.9
150°-160°	51.4	0.4
160°-170°	21.3	0.2
170°-180°	7.0	0.1
0°-90°	11145.8	88.1
0°-180°	12645.4	100.0

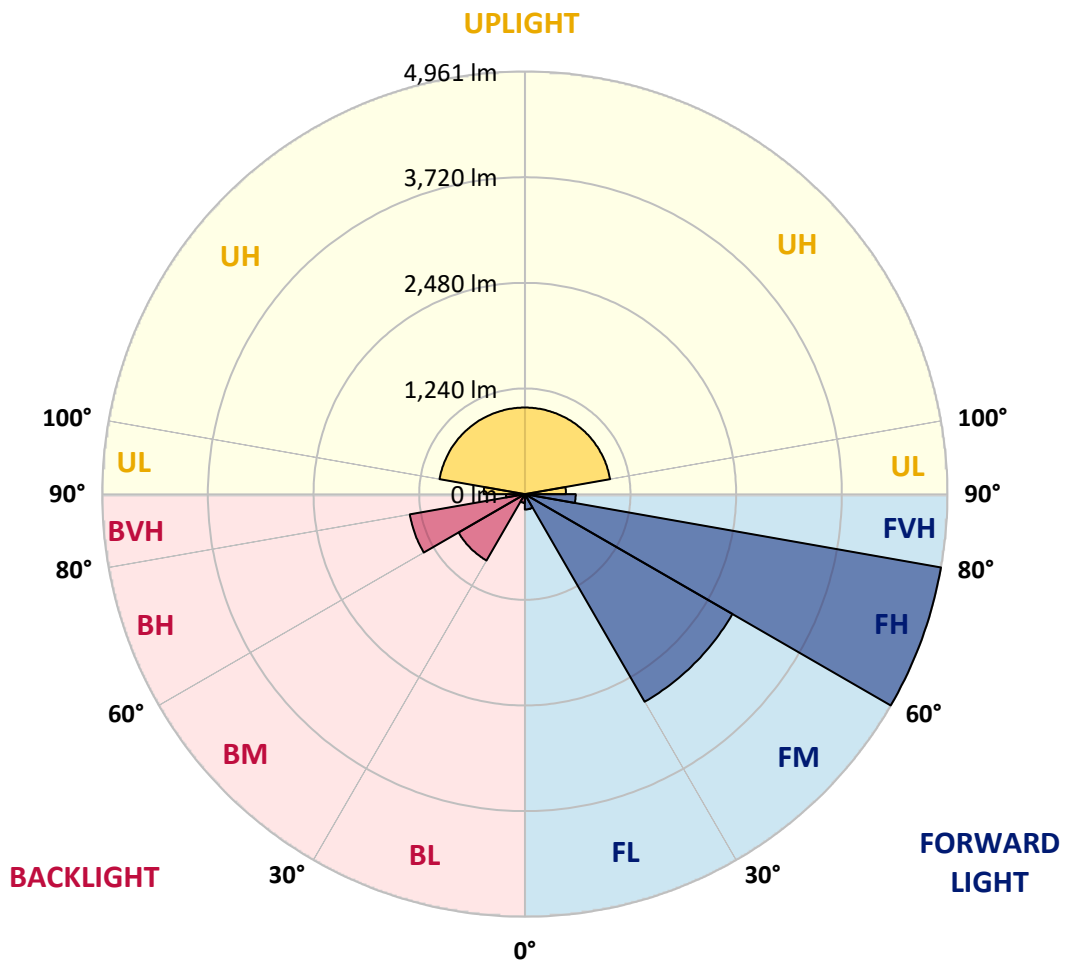


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.2	1.4			
FM (30°-60°)	2813.7	22.3			
FH (60°-80°)	4960.6	39.2			G2/5000
FVH (80°-90°)	596.8	4.7			G4/750
BL (0°-30°)	101.1	0.8	B0/110		
BM (30°-60°)	899.2	7.1	B1/1000		
BH (60°-80°)	1370.9	10.8	B3/2500		G3/2500
BVH (80°-90°)	222.5	1.8			G2/225
UL (90°-100°)	483.2	3.8		U3/500	
UH (100°-180°)	1016.3	8.0		U5	

BUG Rating: B3-U5-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	349.8	347.1	353.8	359.2	365.9	356.5	340.4	356.5	361.8	377.9	390.0
5°	297.5	298.9	305.6	320.3	333.7	331.0	289.5	235.9	219.8	213.1	214.4
7.5°	294.8	293.5	289.5	288.1	296.2	325.7	321.6	282.8	253.3	227.8	202.4
10°	310.9	314.9	319.0	319.0	313.6	294.8	293.5	290.8	280.1	268.0	251.9
12.5°	384.6	390.0	394.0	380.6	363.2	344.4	329.7	305.6	294.8	288.1	276.1
15°	465.0	470.4	463.7	438.2	407.4	372.6	359.2	360.5	345.8	328.3	302.9
17.5°	507.9	505.2	477.1	447.6	423.5	396.7	377.9	365.9	360.5	353.8	328.3
20°	481.1	474.4	457.0	444.9	442.2	427.5	415.4	404.7	398.0	383.3	352.5
22.5°	461.0	461.0	458.3	455.6	471.7	465.0	459.7	444.9	435.5	416.8	371.2
25°	486.5	486.5	487.8	483.8	505.2	505.2	505.2	489.1	477.1	450.3	395.3
27.5°	522.7	521.3	525.3	522.7	541.4	545.4	553.5	541.4	524.0	491.8	422.1
30°	561.5	561.5	565.5	568.2	587.0	596.4	605.7	600.4	578.9	540.1	467.7
32.5°	603.1	601.7	613.8	627.2	637.9	655.3	659.3	672.7	651.3	605.7	534.7
35°	663.4	667.4	699.6	727.7	758.5	769.2	788.0	840.3	818.8	757.2	675.4
37.5°	959.5	939.4	931.4	899.2	895.2	958.2	981.0	1030.6	987.7	904.6	780.0
40°	1017.2	993.0	982.3	951.5	962.2	1092.2	1069.4	1247.7	1143.1	1010.5	930.1
42.5°	958.2	954.2	1080.1	1104.3	1090.9	1297.3	1253.0	1582.7	1471.5	1163.2	1073.4
45°	1156.5	1145.8	1199.4	1242.3	1275.8	1647.0	1620.2	1967.3	1919.1	1416.5	1328.1
47.5°	1305.3	1294.6	1356.2	1499.6	1695.3	2097.3	2254.1	2778.1	2614.6	1948.6	1747.5
50°	1750.2	1743.5	1909.7	2063.8	2386.8	2980.5	3410.6	3976.2	3736.3	2721.8	2351.9
52.5°	2171.0	2192.5	2386.8	2683.0	3024.7	4096.8	4710.6	5107.3	5104.6	3544.7	3019.3
55°	2472.6	2544.9	2774.1	3308.8	3783.2	5087.2	5915.4	6208.9	6455.4	4729.3	3677.3
57.5°	3058.2	3184.2	3403.9	3933.3	4545.7	6285.2	7467.2	7419.0	7862.6	5958.2	4393.0
60°	3659.9	3807.3	3881.0	4367.5	5171.6	7439.1	8534.0	8421.4	8867.7	7027.7	5146.1
62.5°	3847.5	3992.3	4064.6	4594.0	5623.2	8093.1	9025.8	9070.0	9347.5	7790.2	5592.4
65°	3965.5	4131.6	4236.2	4713.3	5613.8	8378.5	9423.8	9465.4	9639.6	8118.5	5822.9
67.5°	3944.0	4130.3	4264.3	4691.8	5302.9	8141.3	9324.7	9137.1	9370.2	7884.0	5580.3
70°	3517.9	3680.0	3814.0	4143.7	4426.5	6858.8	8067.6	7758.0	7999.3	6586.8	4607.4
72.5°	2874.6	2941.6	3058.2	3213.6	3354.4	5088.5	6153.9	5888.6	6027.9	4941.1	3452.2
75°	2361.3	2347.9	2452.4	2565.0	2520.8	3717.5	4868.7	4626.2	4756.1	3752.4	2754.0
77.5°	1750.2	1743.5	1895.0	1885.6	1818.6	2574.4	3859.6	3684.0	3701.5	2771.4	2062.5
80°	1052.0	1072.1	1219.5	1249.0	1169.9	1614.9	2755.3	2672.2	2547.6	1893.6	1446.0
82.5°	738.4	769.2	847.0	879.1	840.3	1179.3	1825.3	1767.6	1620.2	1373.6	1018.5
85°	753.2	758.5	767.9	770.6	753.2	1058.7	1416.5	1384.4	1375.0	1151.2	840.3
87.5°	753.2	765.2	773.3	771.9	741.1	991.7	1306.6	1255.7	1267.8	1076.1	812.1
90°	675.4	696.9	695.5	699.6	674.1	896.6	1184.7	1143.1	1159.2	970.3	738.4
92.5°	552.1	566.9	581.6	609.8	572.2	762.5	1001.1	962.2	982.3	825.5	628.5
95°	513.3	526.7	536.1	550.8	513.3	678.1	885.8	838.9	847.0	700.9	532.0
97.5°	415.4	423.5	434.2	436.9	410.1	521.3	674.1	633.9	639.2	544.1	418.1
100°	348.4	355.1	364.5	364.5	347.1	431.5	533.4	511.9	509.3	444.9	353.8
102.5°	329.7	332.4	347.1	344.4	327.0	398.0	482.4	469.0	470.4	412.8	332.4
105°	324.3	324.3	339.1	332.4	317.6	379.3	451.6	447.6	446.3	392.7	319.0
107.5°	319.0	319.0	333.7	327.0	314.9	357.8	424.8	411.4	410.1	373.9	301.5
110°	297.5	301.5	317.6	309.6	300.2	337.7	390.0	380.6	380.6	352.5	288.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	264.0	266.7	281.4	274.7	268.0	300.2	345.8	333.7	335.0	316.3	269.4
115°	246.6	250.6	265.3	256.0	250.6	280.1	320.3	312.3	314.9	297.5	254.6
117.5°	247.9	249.3	260.0	261.3	250.6	274.7	296.2	298.9	302.9	292.1	258.6
120°	301.5	294.8	300.2	293.5	288.1	316.3	341.7	344.4	343.1	323.0	257.3
122.5°	304.2	290.8	305.6	296.2	290.8	321.6	349.8	356.5	349.8	332.4	262.7
125°	242.6	246.6	247.9	250.6	256.0	289.5	304.2	305.6	306.9	301.5	254.6
127.5°	213.1	211.7	205.0	206.4	218.4	247.9	258.6	266.7	261.3	258.6	229.2
130°	203.7	206.4	205.0	205.0	211.7	234.5	242.6	254.6	250.6	245.2	209.1
132.5°	187.6	190.3	202.4	217.1	214.4	222.5	225.1	237.2	238.5	238.5	210.4
135°	178.2	180.9	190.3	209.1	203.7	207.7	206.4	217.1	218.4	219.8	198.3
137.5°	182.3	183.6	178.2	180.9	184.9	202.4	207.7	218.4	218.4	213.1	184.9
140°	191.6	191.6	179.6	175.6	183.6	210.4	221.1	238.5	235.9	226.5	191.6
142.5°	176.9	179.6	186.3	194.3	211.7	285.4	285.4	319.0	329.7	332.4	231.8
145°	230.5	231.8	234.5	238.5	272.0	373.9	340.4	364.5	373.9	383.3	278.7
147.5°	265.3	268.0	265.3	254.6	285.4	320.3	304.2	314.9	325.7	328.3	280.1
150°	207.7	205.0	203.7	202.4	235.9	246.6	233.2	231.8	239.9	246.6	217.1
152.5°	151.4	150.1	148.8	147.4	176.9	170.2	160.8	160.8	163.5	164.8	152.8
155°	134.0	132.7	130.0	131.3	150.1	143.4	135.4	132.7	135.4	134.0	127.3
157.5°	109.9	107.2	107.2	112.6	122.0	113.9	108.6	104.5	105.9	104.5	105.9
160°	91.1	89.8	91.1	97.8	103.2	96.5	91.1	88.4	88.4	91.1	96.5
162.5°	81.7	80.4	81.7	84.4	87.1	80.4	76.4	76.4	77.7	83.1	93.8
165°	71.0	71.0	72.4	73.7	75.0	71.0	69.7	69.7	72.4	80.4	92.5
167.5°	68.3	68.3	68.3	68.3	68.3	67.0	65.7	69.7	72.4	76.4	84.4
170°	67.0	65.7	67.0	67.0	67.0	67.0	67.0	71.0	71.0	72.4	76.4
172.5°	68.3	68.3	68.3	69.7	72.4	73.7	72.4	75.0	73.7	73.7	73.7
175°	69.7	69.7	71.0	72.4	73.7	75.0	76.4	76.4	76.4	77.7	77.7
177.5°	69.7	69.7	71.0	72.4	73.7	71.0	68.3	67.0	65.7	65.7	65.7
180°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	379.3	345.8	298.9	319.0	380.6	368.5	306.9	269.4	272.0	298.9	301.5
5°	221.1	227.8	258.6	323.0	335.0	277.4	223.8	215.8	260.0	321.6	333.7
7.5°	199.7	199.7	225.1	313.6	352.5	289.5	218.4	197.0	230.5	281.4	289.5
10°	241.2	233.2	235.9	268.0	282.8	231.8	195.7	186.3	205.0	211.7	209.1
12.5°	272.0	277.4	302.9	296.2	231.8	189.0	176.9	175.6	186.3	193.0	191.6
15°	292.1	282.8	264.0	242.6	221.1	197.0	179.6	168.9	156.8	151.4	151.4
17.5°	310.9	292.1	258.6	238.5	217.1	199.7	183.6	167.5	162.2	163.5	163.5
20°	333.7	310.9	280.1	257.3	231.8	207.7	187.6	170.2	166.2	167.5	166.2
22.5°	351.1	331.0	298.9	269.4	242.6	215.8	195.7	178.2	172.9	171.5	171.5
25°	372.6	355.1	321.6	285.4	253.3	227.8	210.4	190.3	180.9	178.2	178.2
27.5°	400.7	386.0	348.4	309.6	272.0	242.6	223.8	202.4	189.0	183.6	182.3
30°	443.6	423.5	381.9	333.7	294.8	264.0	241.2	214.4	198.3	189.0	187.6
32.5°	507.9	482.4	427.5	367.2	320.3	288.1	260.0	226.5	206.4	195.7	194.3
35°	644.6	616.5	546.8	462.3	394.0	328.3	284.1	239.9	214.4	201.0	199.7
37.5°	730.4	679.4	595.0	518.6	435.5	396.7	340.4	281.4	225.1	207.7	205.0
40°	855.0	789.3	683.5	580.3	434.2	432.9	395.3	343.1	265.3	219.8	215.8
42.5°	947.5	863.0	730.4	615.1	438.2	450.3	418.1	372.6	314.9	256.0	249.3
45°	1136.4	1029.2	818.8	645.9	443.6	470.4	438.2	390.0	339.1	297.5	293.5
47.5°	1490.2	1341.5	990.4	704.9	503.9	537.4	479.8	423.5	373.9	332.4	323.0
50°	1984.7	1806.5	1198.1	757.2	607.1	683.5	589.7	503.9	444.9	412.8	403.4
52.5°	2565.0	2365.3	1328.1	838.9	731.7	863.0	759.9	659.3	581.6	587.0	581.6
55°	3212.3	2976.4	1442.0	962.2	891.2	1062.7	950.2	863.0	821.5	938.1	944.8
57.5°	3836.8	3584.9	1513.0	1092.2	1069.4	1293.2	1161.9	1100.3	1116.3	1458.1	1538.5
60°	4433.2	4035.2	1568.0	1214.2	1219.5	1474.2	1373.6	1361.6	1411.2	1849.4	1971.3
62.5°	4777.6	4265.7	1565.3	1293.2	1313.3	1585.4	1496.9	1503.6	1541.2	1913.7	2015.6
65°	5012.1	4382.2	1538.5	1333.4	1353.5	1625.6	1511.7	1459.4	1435.3	1689.9	1798.5
67.5°	4871.4	4157.1	1474.2	1298.6	1325.4	1561.3	1419.2	1287.9	1246.3	1384.4	1448.7
70°	4118.2	3473.6	1313.3	1180.7	1198.1	1317.4	1196.7	1053.3	1011.8	1084.2	1113.7
72.5°	3111.8	2666.9	1178.0	1090.9	1049.3	1089.5	971.6	821.5	812.1	851.0	856.3
75°	2486.0	2093.3	1073.4	983.7	872.4	914.0	771.9	611.1	599.0	601.7	588.3
77.5°	1873.5	1557.2	903.3	774.6	660.7	729.0	573.6	422.1	402.0	394.0	379.3
80°	1282.5	1081.5	613.8	518.6	469.0	534.7	408.7	309.6	308.2	305.6	289.5
82.5°	910.0	834.9	501.2	440.9	398.0	420.8	355.1	289.5	282.8	284.1	266.7
85°	796.0	755.8	483.8	446.3	404.7	403.4	339.1	270.7	268.0	269.4	253.3
87.5°	761.2	717.0	473.1	426.2	386.0	365.9	298.9	238.5	245.2	249.3	234.5
90°	682.1	636.6	428.8	380.6	341.7	306.9	253.3	215.8	226.5	229.2	215.8
92.5°	574.9	528.0	333.7	305.6	286.8	281.4	237.2	205.0	213.1	214.4	203.7
95°	486.5	443.6	290.8	269.4	256.0	254.6	214.4	186.3	190.3	189.0	179.6
97.5°	391.3	360.5	254.6	234.5	219.8	211.7	183.6	162.2	167.5	170.2	163.5
100°	333.7	316.3	237.2	219.8	202.4	191.6	167.5	150.1	155.5	160.8	155.5
102.5°	313.6	300.2	233.2	214.4	195.7	182.3	159.5	140.7	143.4	150.1	146.1
105°	297.5	285.4	226.5	206.4	189.0	174.2	155.5	132.7	131.3	138.0	136.7
107.5°	280.1	269.4	222.5	198.3	179.6	166.2	148.8	127.3	122.0	126.0	124.6
110°	270.7	260.0	214.4	189.0	168.9	156.8	140.7	123.3	116.6	117.9	117.9



REPORT NUMBER: P856191
 CATALOG NUMBER: FFX-CLB-100-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	251.9	239.9	197.0	172.9	156.8	146.1	130.0	117.9	109.9	112.6	113.9
115°	239.9	223.8	180.9	163.5	146.1	136.7	127.3	116.6	107.2	107.2	108.6
117.5°	247.9	217.1	168.9	155.5	146.1	143.4	140.7	124.6	105.9	104.5	104.5
120°	237.2	218.4	183.6	179.6	170.2	162.2	144.7	123.3	103.2	100.5	100.5
122.5°	231.8	227.8	207.7	194.3	176.9	160.8	135.4	112.6	99.2	96.5	96.5
125°	229.2	225.1	201.0	175.6	152.8	136.7	120.6	105.9	97.8	93.8	93.8
127.5°	210.4	191.6	162.2	147.4	132.7	126.0	112.6	103.2	93.8	88.4	88.4
130°	194.3	176.9	151.4	135.4	123.3	117.9	108.6	99.2	89.8	84.4	83.1
132.5°	191.6	174.2	147.4	127.3	116.6	111.2	105.9	95.1	84.4	79.1	77.7
135°	178.2	158.1	131.3	120.6	113.9	109.9	105.9	92.5	81.7	76.4	76.4
137.5°	164.8	144.7	124.6	119.3	113.9	109.9	97.8	84.4	76.4	72.4	72.4
140°	166.2	143.4	127.3	123.3	115.3	103.2	92.5	83.1	76.4	71.0	69.7
142.5°	176.9	148.8	128.7	116.6	111.2	104.5	100.5	89.8	76.4	67.0	64.3
145°	194.3	160.8	144.7	139.4	130.0	117.9	103.2	83.1	69.7	61.6	60.3
147.5°	214.4	180.9	162.2	147.4	128.7	108.6	88.4	72.4	61.6	59.0	57.6
150°	186.3	154.1	139.4	119.3	103.2	87.1	72.4	64.3	59.0	57.6	57.6
152.5°	140.7	115.3	103.2	93.8	84.4	76.4	68.3	63.0	59.0	56.3	56.3
155°	122.0	108.6	96.5	87.1	77.7	69.7	63.0	60.3	56.3	56.3	54.9
157.5°	107.2	100.5	84.4	76.4	69.7	65.7	63.0	59.0	57.6	56.3	56.3
160°	97.8	93.8	77.7	71.0	67.0	64.3	64.3	61.6	57.6	56.3	56.3
162.5°	95.1	91.1	75.0	68.3	64.3	65.7	68.3	67.0	61.6	59.0	59.0
165°	93.8	91.1	76.4	67.0	64.3	65.7	72.4	73.7	67.0	63.0	61.6
167.5°	85.8	84.4	80.4	73.7	69.7	69.7	73.7	75.0	72.4	72.4	71.0
170°	77.7	77.7	79.1	80.4	77.7	73.7	71.0	71.0	75.0	79.1	80.4
172.5°	75.0	76.4	79.1	83.1	83.1	77.7	73.7	72.4	76.4	81.7	83.1
175°	79.1	80.4	81.7	81.7	79.1	77.7	76.4	75.0	77.7	83.1	84.4
177.5°	65.7	65.7	67.0	67.0	65.7	67.0	65.7	63.0	63.0	63.0	63.0
180°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6

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.

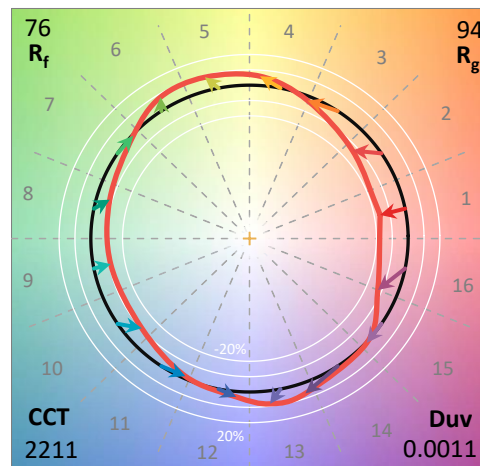
Test Information

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

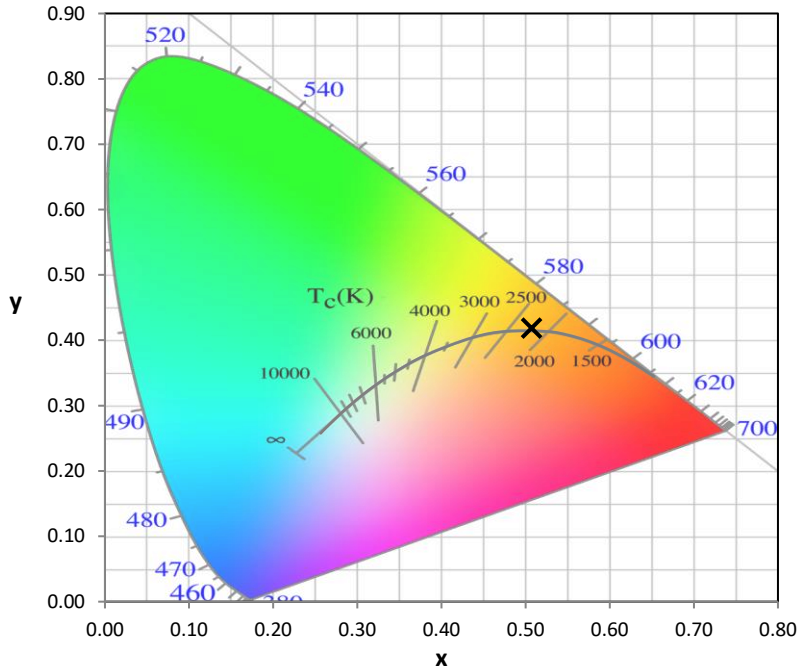
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

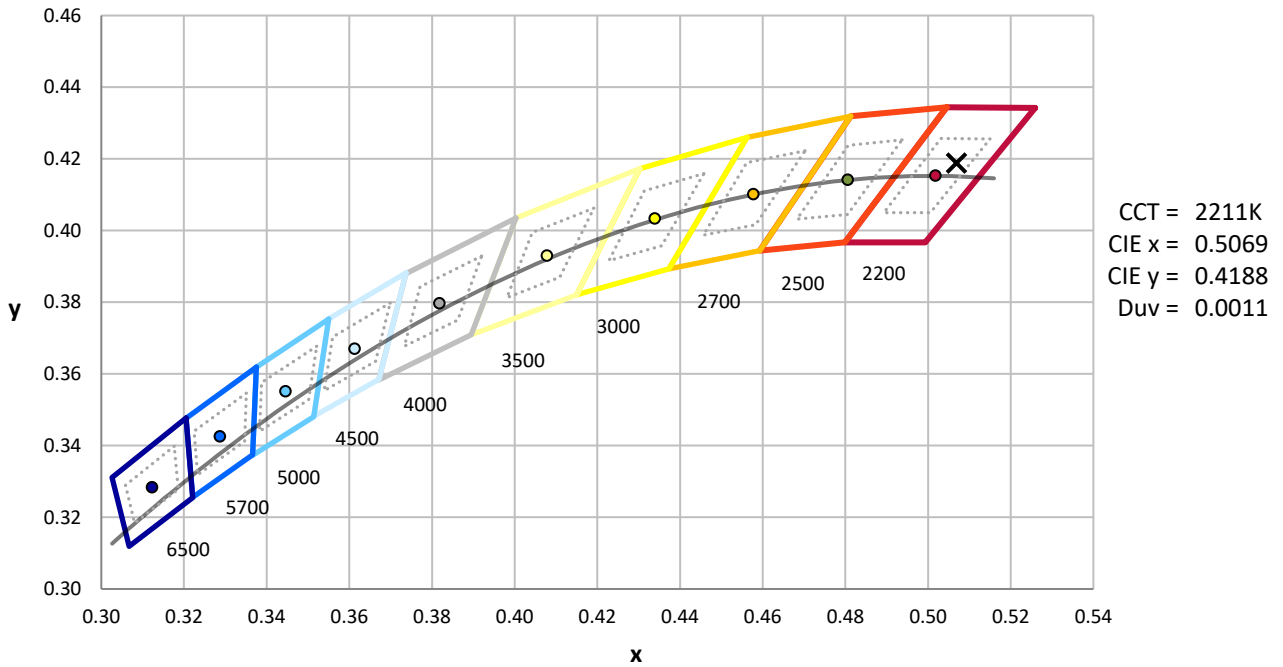
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-2

CIE 1931 Chromaticity Diagram



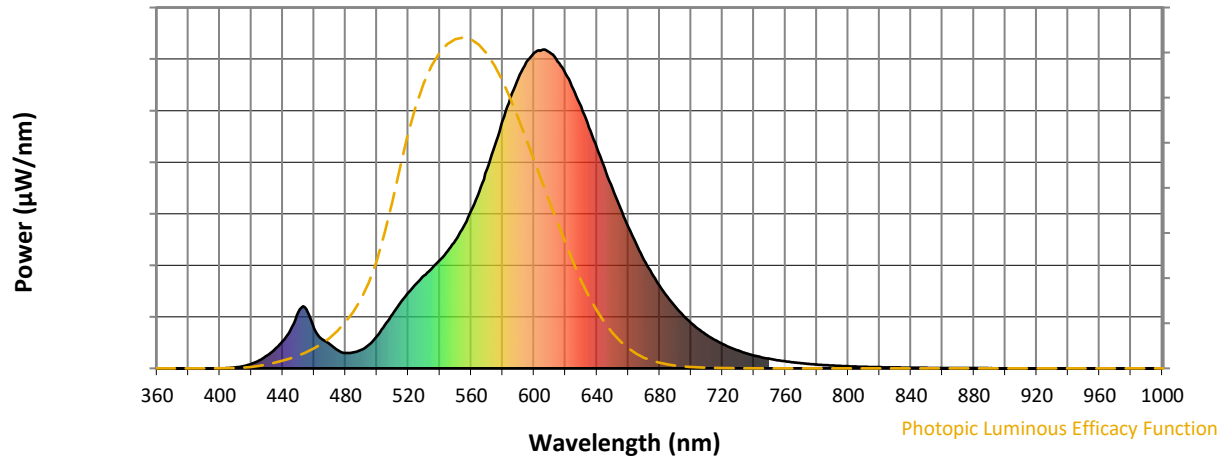
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

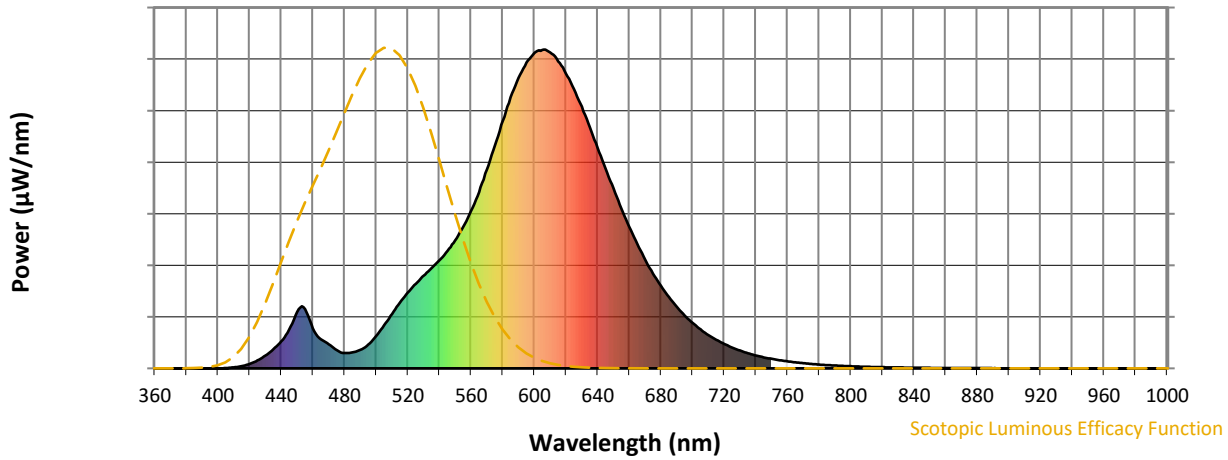


Photopic Lumens: NR

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



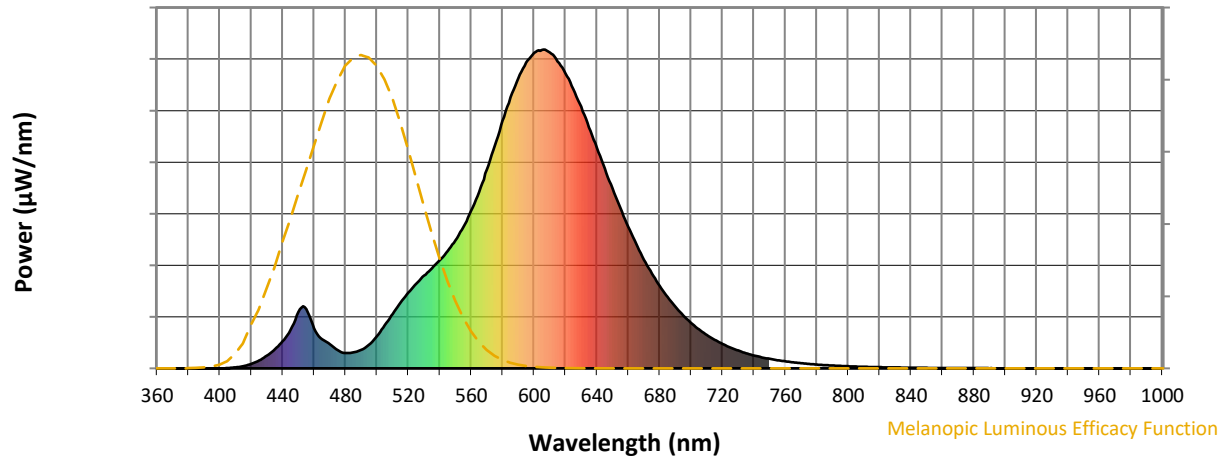
Scotopic Lumens: NR

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

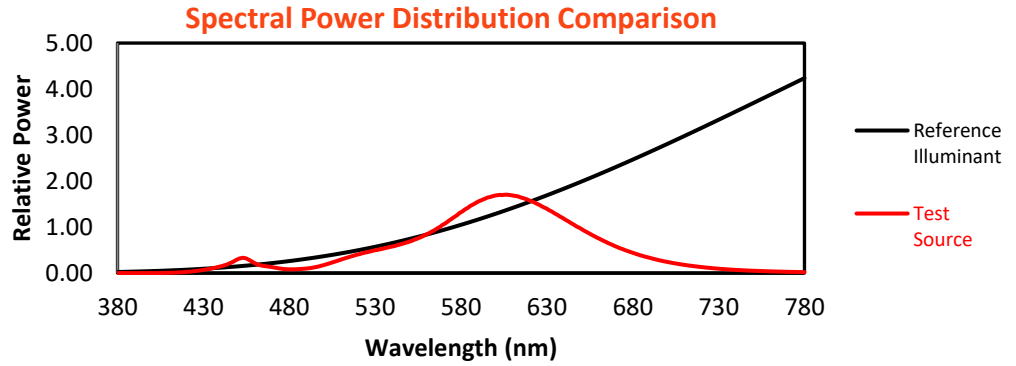
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	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			

REPORT NUMBER: SP1-2406-133-2

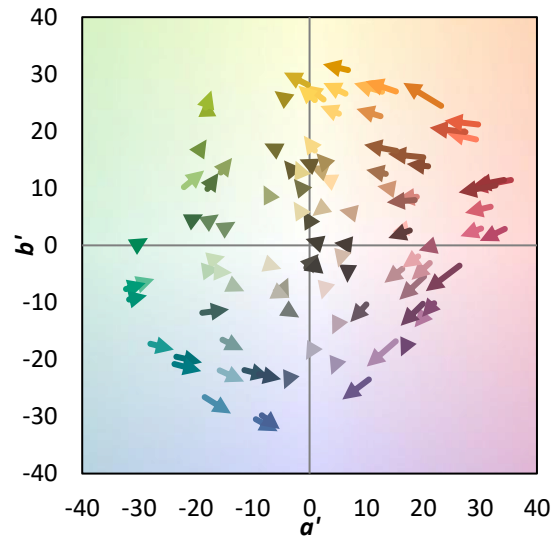
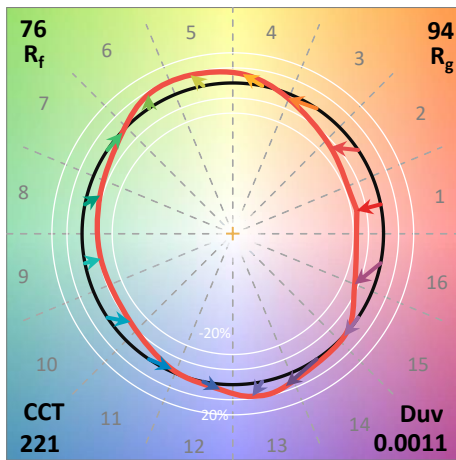
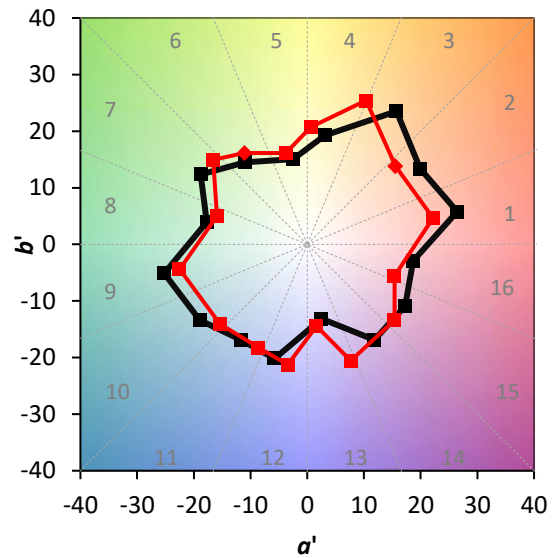
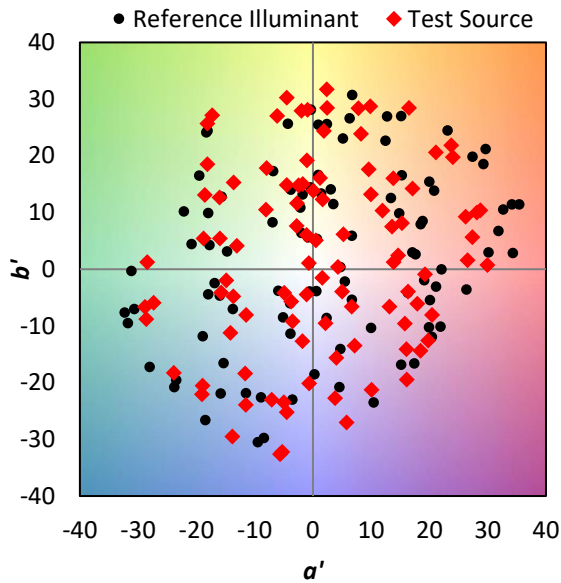
TM-30-18

Summary

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



Color Vector Graphics

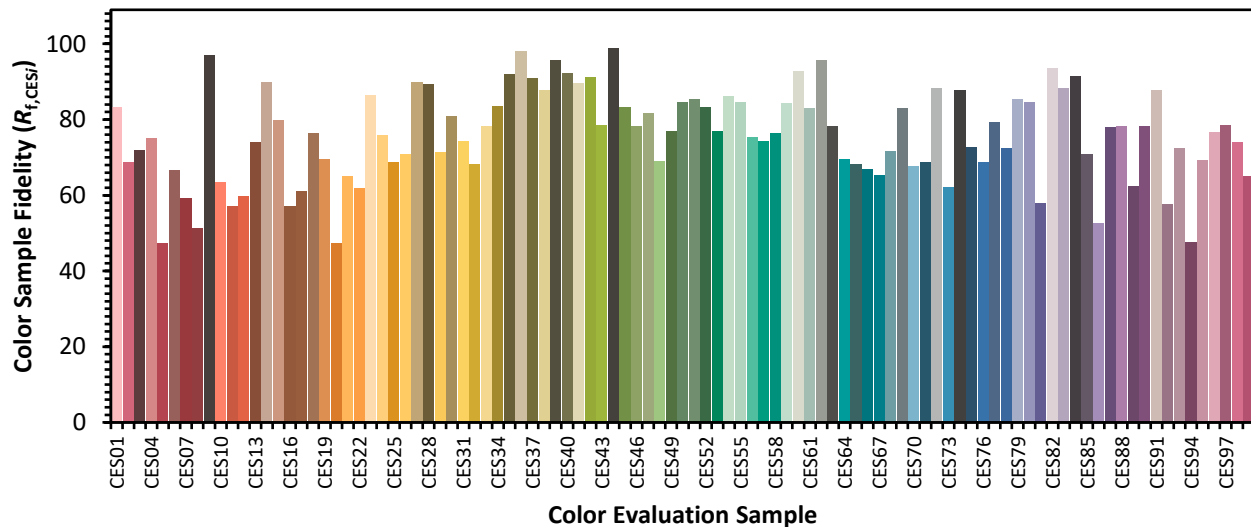


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TM-30-18

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

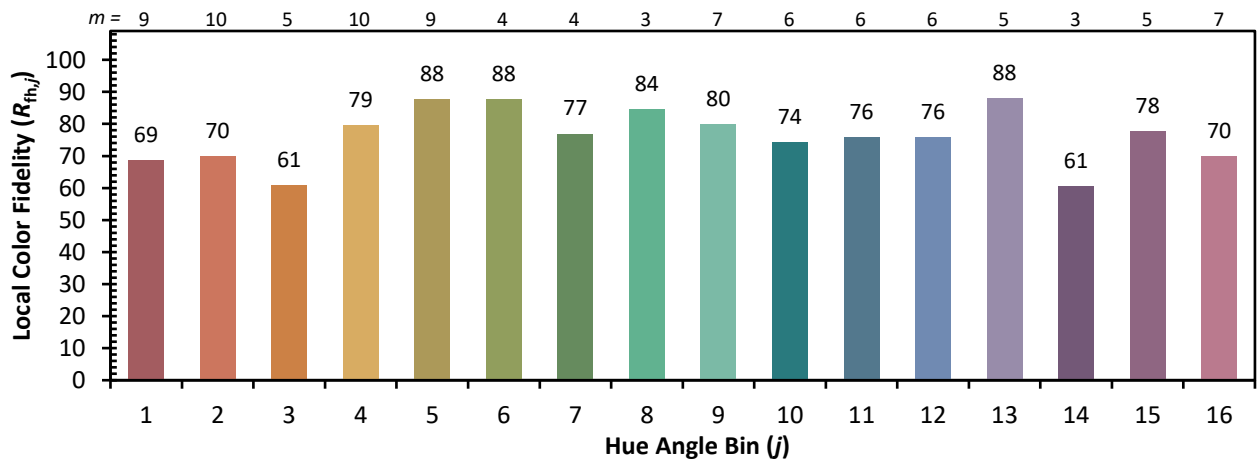
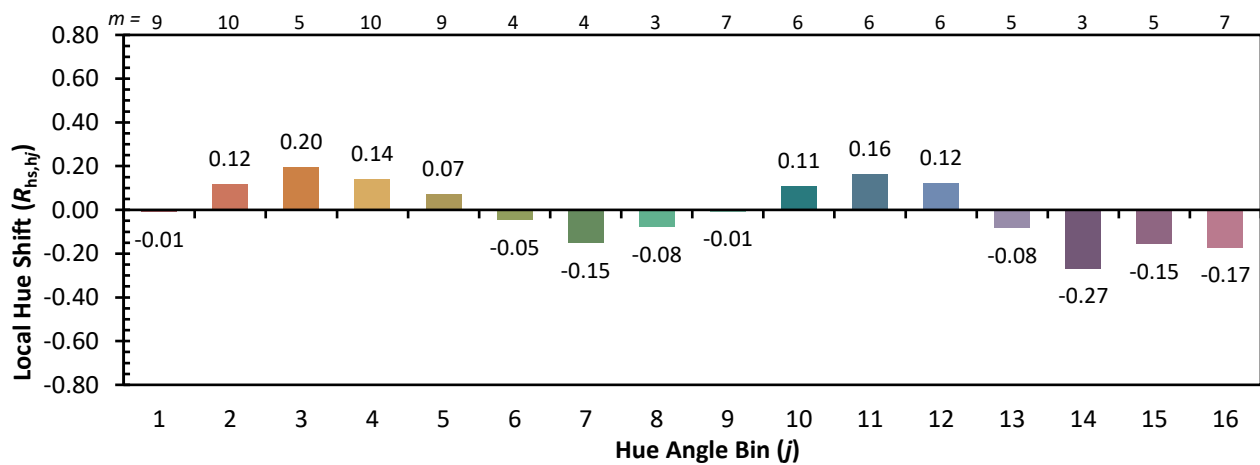
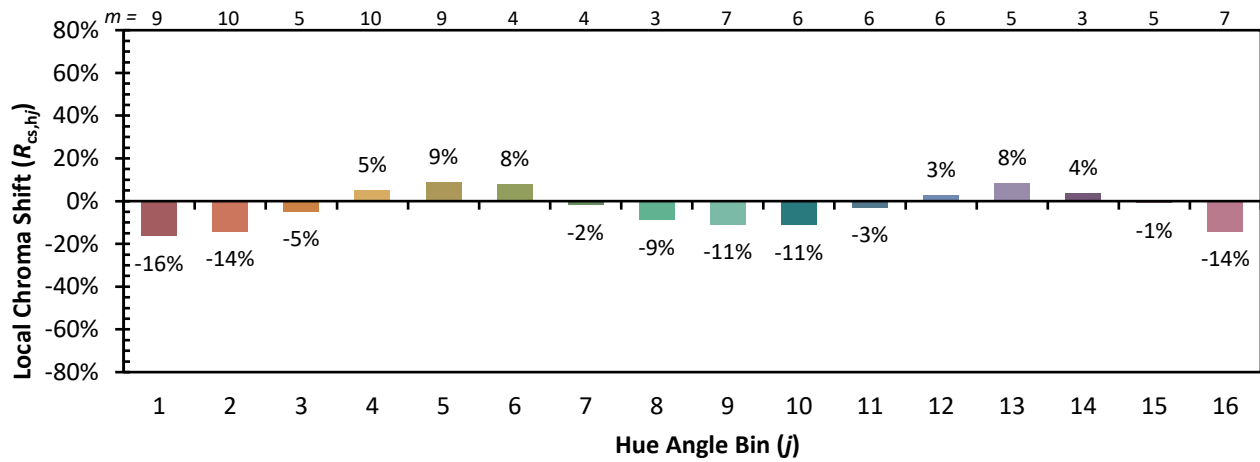
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 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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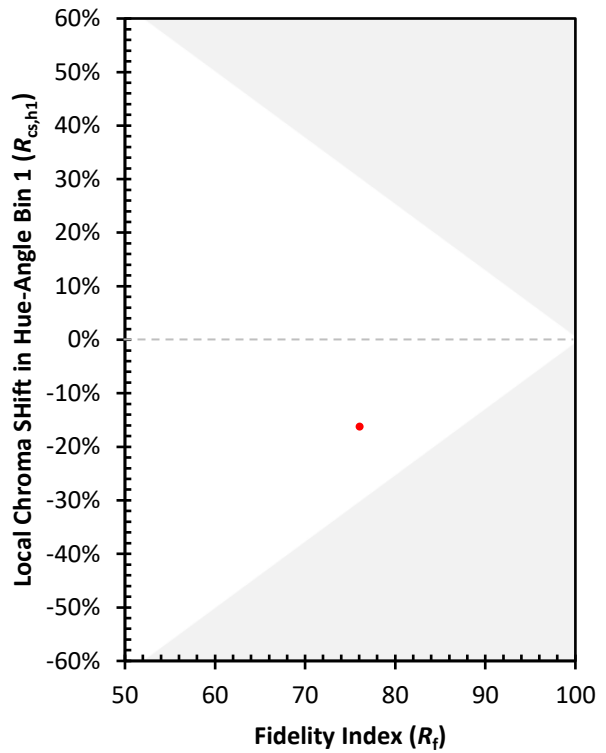
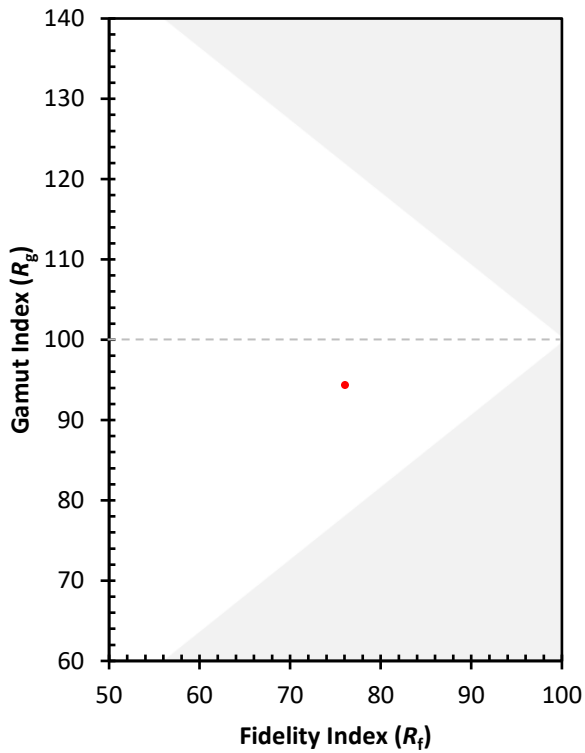
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)