

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: P856102

Luminaire Tested: **FFX-CLB-90-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856102
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-722-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

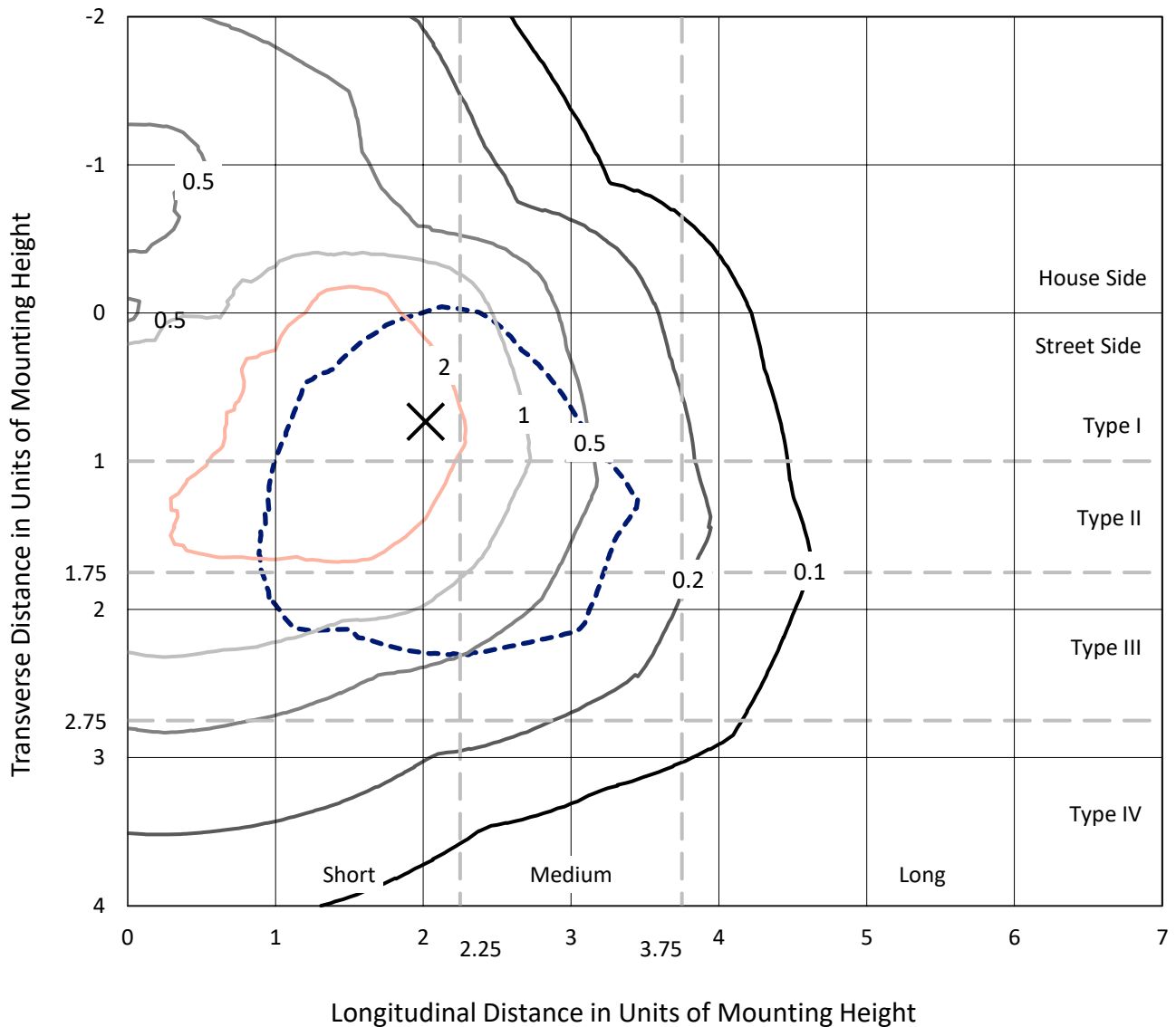
Lumens per Lamp: N/A
Luminaire Lumens: 11940.7 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
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

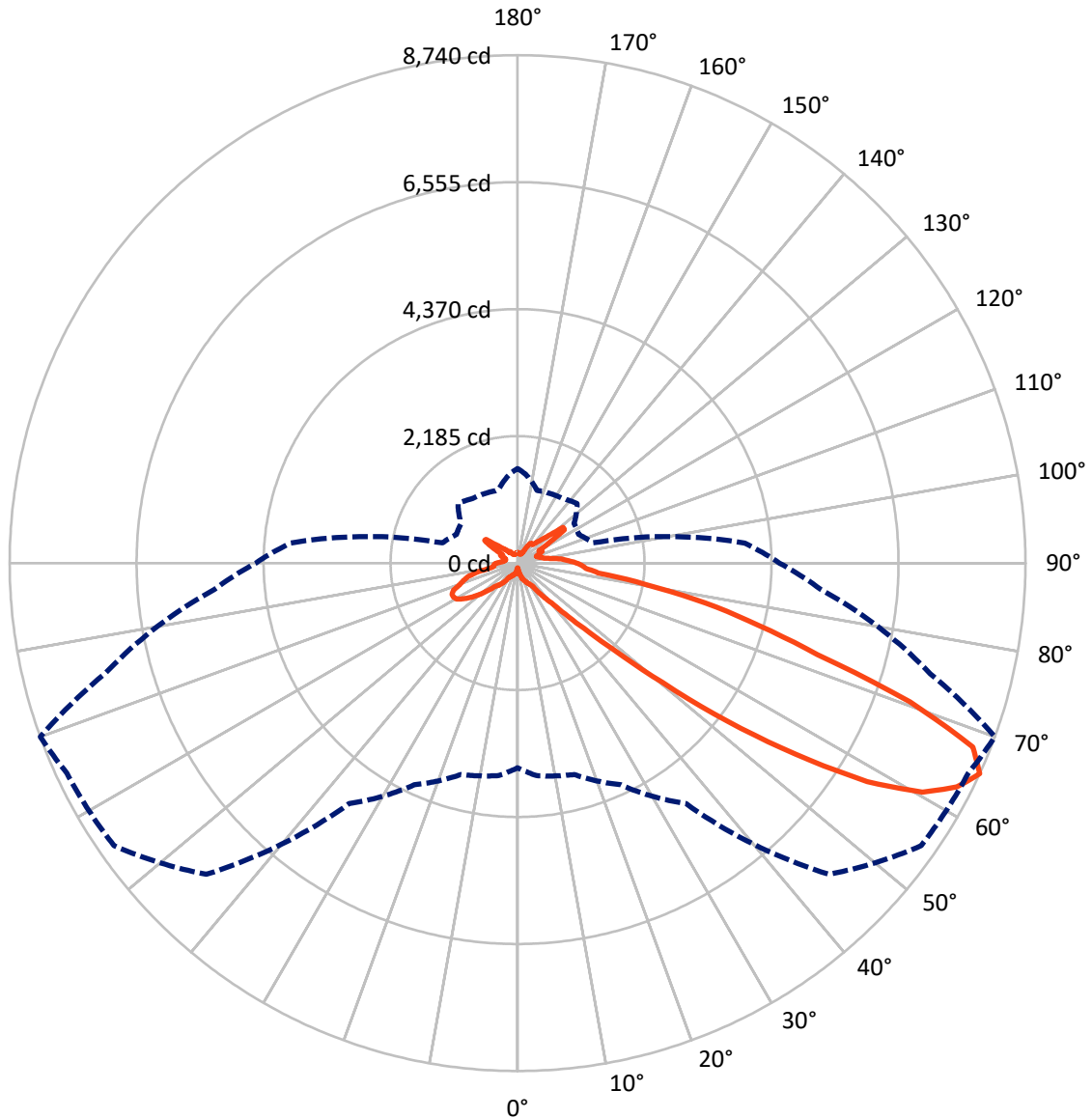
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 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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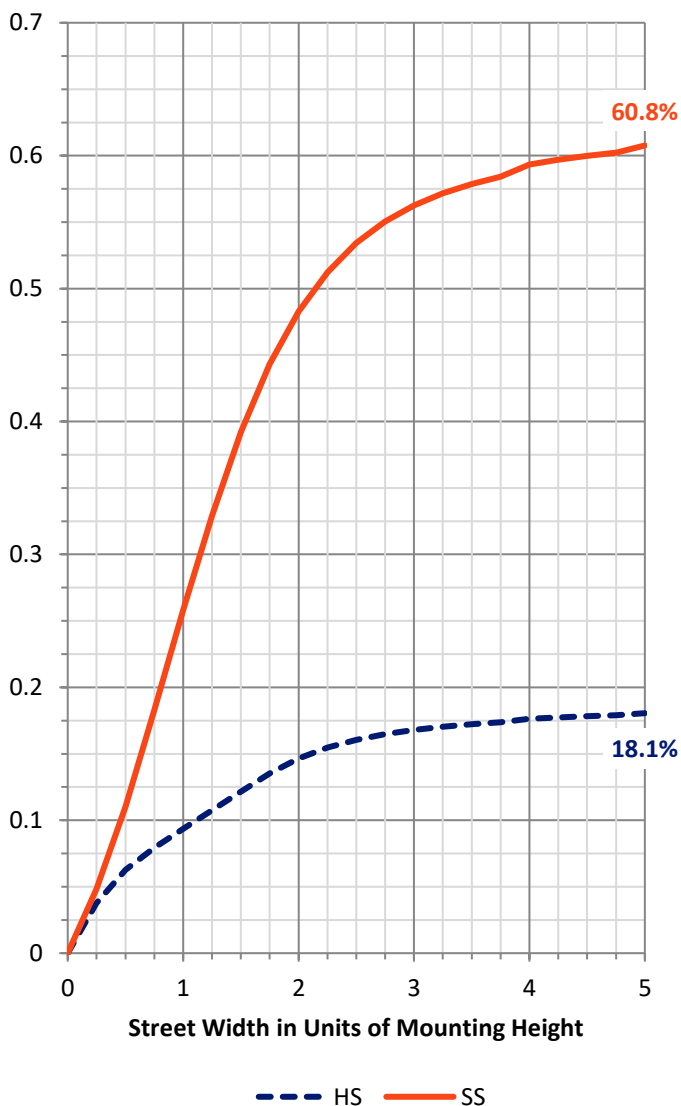
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.3	802.4	3051.7
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	7500.5	1388.5	8889.0
	% Fixture	62.8	11.6	74.4
Total	Lumens	9749.8	2191.0	11940.7
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.1
10°-20°	62.6	0.5
20°-30°	132.8	1.1
30°-40°	270.4	2.3
40°-50°	687.6	5.8
50°-60°	2209.8	18.5
60°-70°	3606.4	30.2
70°-80°	2053.1	17.2
80°-90°	714.4	6.0
90°-100°	444.6	3.7
100°-110°	283.1	2.4
110°-120°	311.5	2.6
120°-130°	526.8	4.4
130°-140°	310.5	2.6
140°-150°	167.1	1.4
150°-160°	84.5	0.7
160°-170°	46.2	0.4
170°-180°	16.7	0.1
0°-90°	9749.8	81.7
0°-180°	11940.7	100.0



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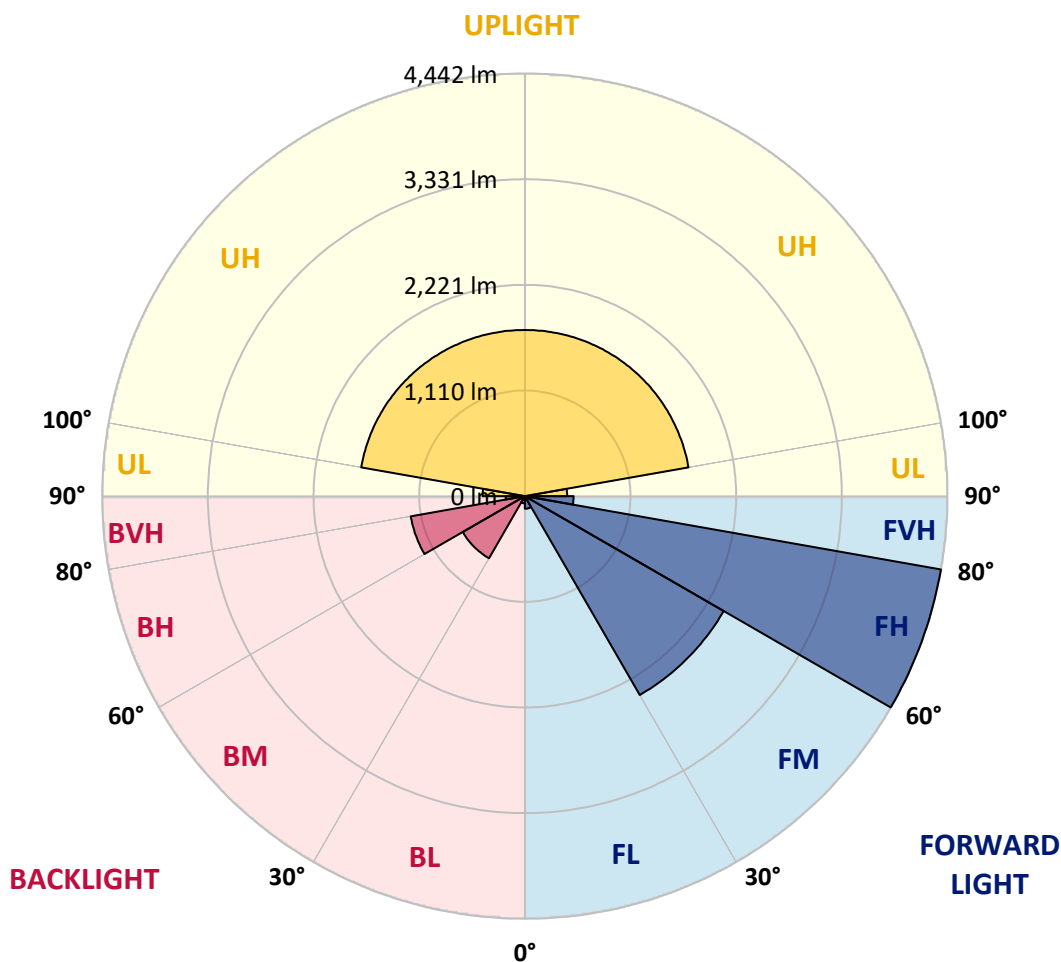
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.5	1.1			
FM (30°-60°)	2414.0	20.2			
FH (60°-80°)	4441.8	37.2			G2/5000
FVH (80°-90°)	512.2	4.3			G4/750
BL (0°-30°)	75.6	0.6	B0/110		
BM (30°-60°)	753.9	6.3	B1/1000		
BH (60°-80°)	1217.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	202.2	1.7			G2/225
UL (90°-100°)	444.6	3.7		U3/500	
UH (100°-180°)	1746.4	14.6		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°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
2.5°	94.7	94.7	97.2	97.2	97.2	94.7	93.5	91.1	91.1	91.1	89.8
5°	123.0	121.8	123.0	126.7	128.0	124.3	121.8	118.1	118.1	116.9	116.9
7.5°	166.1	164.9	162.4	158.7	160.0	163.7	168.6	158.7	156.3	150.1	147.7
10°	208.0	205.5	208.0	201.8	195.6	187.0	192.0	189.5	184.6	178.4	173.5
12.5°	253.5	254.7	259.6	254.7	244.9	231.3	228.9	222.7	217.8	216.6	209.2
15°	300.2	301.5	306.4	305.2	295.3	276.9	269.5	263.3	260.9	253.5	237.5
17.5°	324.8	326.1	327.3	328.5	322.4	307.6	296.5	285.5	281.8	279.3	259.6
20°	337.2	334.7	337.2	342.1	347.0	334.7	323.6	317.5	313.8	305.2	279.3
22.5°	356.8	354.4	353.2	356.8	371.6	363.0	351.9	345.8	342.1	331.0	291.6
25°	377.8	375.3	379.0	376.5	395.0	391.3	380.2	374.1	369.1	355.6	310.1
27.5°	401.1	398.7	402.4	399.9	414.7	417.1	409.8	404.8	397.4	377.8	323.6
30°	420.8	418.4	422.1	420.8	435.6	444.2	440.5	439.3	428.2	404.8	347.0
32.5°	436.8	435.6	444.2	447.9	451.6	471.3	468.8	479.9	467.6	439.3	381.5
35°	473.7	477.4	500.8	525.4	529.1	568.5	573.4	614.0	601.7	564.8	494.7
37.5°	732.1	718.6	695.2	671.8	663.2	739.5	750.6	791.2	760.4	691.5	578.3
40°	780.1	758.0	730.9	712.5	714.9	851.5	828.1	981.9	894.6	791.2	706.3
42.5°	740.8	733.4	828.1	872.4	840.4	1039.8	1000.4	1293.2	1193.6	940.1	852.7
45°	929.0	914.3	947.5	991.8	1001.6	1368.3	1341.2	1647.6	1607.0	1175.1	1093.9
47.5°	1063.1	1049.6	1093.9	1244.0	1373.2	1769.4	1917.1	2358.8	2216.1	1669.8	1481.5
50°	1465.5	1463.1	1599.6	1778.1	2004.5	2574.2	2966.7	3462.6	3232.5	2363.8	2031.5
52.5°	1863.0	1867.9	2035.2	2351.5	2586.5	3593.0	4150.4	4497.4	4528.2	3082.4	2633.2
55°	2163.2	2194.0	2395.8	2926.1	3281.7	4499.9	5223.4	5492.9	5800.5	4165.2	3259.6
57.5°	2748.9	2795.7	2987.6	3506.9	4004.0	5629.5	6606.5	6636.0	7095.0	5366.2	3931.4
60°	3260.8	3370.3	3438.0	3909.3	4587.3	6708.6	7634.0	7574.9	8005.6	6361.6	4613.1
62.5°	3419.5	3545.0	3609.0	4111.1	5048.7	7314.0	8113.8	8187.7	8484.2	7060.5	5030.2
65°	3522.9	3670.6	3766.5	4210.7	5053.6	7572.4	8478.1	8556.8	8740.2	7353.4	5238.2
67.5°	3470.0	3658.2	3781.3	4176.3	4787.8	7373.1	8405.5	8254.1	8448.5	7108.5	5005.6
70°	3029.5	3226.3	3350.6	3644.7	4002.8	6199.2	7246.4	6992.9	7163.9	5933.4	4116.0
72.5°	2468.4	2565.6	2641.9	2803.1	3017.2	4572.5	5506.4	5296.0	5398.2	4464.2	3084.8
75°	2027.8	2057.4	2152.1	2244.4	2280.1	3344.5	4362.1	4170.1	4289.5	3398.6	2454.8
77.5°	1472.9	1490.1	1625.5	1640.2	1631.6	2294.9	3438.0	3269.4	3307.6	2526.2	1832.2
80°	855.2	888.4	1065.6	1057.0	1042.2	1413.8	2420.4	2352.7	2234.6	1715.3	1268.6
82.5°	602.9	636.2	717.4	735.8	726.0	1015.2	1571.3	1527.0	1399.1	1193.6	877.3
85°	634.9	638.6	642.3	650.9	634.9	905.6	1203.4	1181.3	1182.5	986.9	723.5
87.5°	626.3	641.1	647.2	650.9	634.9	860.1	1118.5	1090.2	1103.7	937.6	702.6
90°	550.0	577.1	579.6	585.7	577.1	767.8	1004.1	977.0	994.2	845.3	639.9
92.5°	449.1	463.9	481.1	504.5	494.7	657.1	854.0	834.3	855.2	732.1	562.3
95°	425.7	441.7	452.8	468.8	454.1	599.2	771.5	732.1	749.4	641.1	484.8
97.5°	351.9	365.5	375.3	381.5	370.4	472.5	591.9	564.8	563.6	495.9	387.6
100°	300.2	308.9	317.5	323.6	313.8	391.3	468.8	459.0	461.4	409.8	333.5
102.5°	285.5	290.4	303.9	305.2	294.1	356.8	422.1	418.4	423.3	379.0	312.5
105°	279.3	283.0	294.1	290.4	280.6	333.5	388.8	391.3	391.3	353.2	292.9
107.5°	260.9	267.0	279.3	273.2	268.2	307.6	358.1	349.5	351.9	328.5	278.1
110°	258.4	263.3	275.6	270.7	267.0	300.2	344.5	342.1	345.8	324.8	285.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	321.2	316.2	326.1	316.2	322.4	350.7	397.4	392.5	403.6	396.2	356.8
115°	396.2	398.7	408.5	388.8	395.0	423.3	449.1	457.7	467.6	456.5	415.9
117.5°	366.7	387.6	375.3	372.8	367.9	390.1	386.4	408.5	418.4	409.8	393.8
120°	392.5	418.4	382.7	364.2	356.8	412.2	439.3	438.1	430.7	413.4	380.2
122.5°	586.9	590.6	593.1	648.5	628.8	682.9	698.9	678.0	678.0	700.1	632.5
125°	915.5	919.2	916.7	941.3	927.8	979.5	1000.4	999.2	986.9	975.8	909.3
127.5°	925.3	925.3	916.7	903.2	915.5	965.9	967.2	1013.9	997.9	968.4	906.9
130°	646.0	650.9	681.7	691.5	708.8	719.8	707.5	748.1	755.5	750.6	708.8
132.5°	535.3	543.9	577.1	589.4	600.5	601.7	596.8	628.8	636.2	636.2	617.7
135°	462.7	472.5	476.2	470.0	486.0	498.3	508.2	534.0	531.6	526.6	510.7
137.5°	403.6	407.3	396.2	382.7	391.3	427.0	446.7	473.7	472.5	463.9	436.8
140°	340.8	342.1	335.9	329.8	338.4	369.1	387.6	417.1	413.4	407.3	375.3
142.5°	258.4	262.1	278.1	290.4	311.3	375.3	365.5	391.3	409.8	424.5	350.7
145°	271.9	267.0	264.6	278.1	305.2	397.4	369.1	402.4	411.0	420.8	335.9
147.5°	313.8	316.2	312.5	303.9	340.8	370.4	354.4	383.9	388.8	386.4	351.9
150°	246.1	249.8	251.0	247.3	292.9	291.6	275.6	297.8	300.2	300.2	276.9
152.5°	200.6	201.8	199.3	196.9	226.4	221.5	214.1	221.5	220.3	219.0	214.1
155°	190.7	190.7	188.3	189.5	209.2	204.3	199.3	204.3	201.8	198.1	193.2
157.5°	176.0	177.2	177.2	180.9	193.2	184.6	179.7	182.1	179.7	177.2	177.2
160°	166.1	166.1	167.3	172.3	179.7	171.0	167.3	168.6	167.3	164.9	166.1
162.5°	162.4	162.4	163.7	166.1	167.3	162.4	158.7	158.7	158.7	158.7	162.4
165°	160.0	160.0	160.0	161.2	161.2	157.5	156.3	157.5	158.7	160.0	164.9
167.5°	164.9	164.9	164.9	164.9	163.7	161.2	160.0	161.2	162.4	163.7	167.3
170°	172.3	171.0	171.0	169.8	168.6	166.1	164.9	163.7	163.7	164.9	166.1
172.5°	177.2	177.2	176.0	176.0	174.7	172.3	169.8	168.6	168.6	168.6	168.6
175°	183.3	183.3	183.3	183.3	182.1	179.7	178.4	176.0	176.0	176.0	176.0
177.5°	190.7	190.7	190.7	190.7	188.3	185.8	183.3	180.9	180.9	180.9	179.7
180°	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
2.5°	88.6	87.4	83.7	82.4	81.2	78.8	76.3	75.1	73.8	73.8	75.1
5°	118.1	116.9	116.9	113.2	109.5	103.4	100.9	100.9	102.1	103.4	105.8
7.5°	148.9	151.4	153.8	147.7	136.6	121.8	113.2	115.7	121.8	126.7	126.7
10°	172.3	172.3	180.9	173.5	155.0	136.6	124.3	121.8	123.0	124.3	125.5
12.5°	205.5	205.5	200.6	180.9	162.4	144.0	134.1	131.7	131.7	126.7	125.5
15°	230.1	222.7	205.5	187.0	171.0	152.6	141.5	137.8	134.1	130.4	129.2
17.5°	244.9	231.3	208.0	190.7	174.7	160.0	148.9	141.5	137.8	139.0	139.0
20°	262.1	247.3	226.4	208.0	188.3	168.6	155.0	144.0	140.3	141.5	140.3
22.5°	275.6	260.9	239.9	219.0	198.1	177.2	161.2	147.7	142.7	144.0	144.0
25°	291.6	279.3	257.2	232.6	206.7	187.0	171.0	155.0	147.7	146.4	146.4
27.5°	307.6	299.0	275.6	246.1	219.0	195.6	179.7	161.2	152.6	148.9	148.9
30°	328.5	318.7	295.3	259.6	230.1	208.0	190.7	171.0	158.7	152.6	151.4
32.5°	361.8	350.7	322.4	284.2	242.4	220.3	201.8	179.7	163.7	156.3	155.0
35°	470.0	452.8	408.5	364.2	296.5	246.1	215.3	187.0	168.6	158.7	157.5
37.5°	537.7	495.9	436.8	407.3	333.5	301.5	259.6	214.1	176.0	163.7	161.2
40°	647.2	589.4	515.6	457.7	324.8	329.8	303.9	267.0	209.2	172.3	168.6
42.5°	739.5	666.9	555.0	479.9	326.1	344.5	324.8	294.1	251.0	204.3	196.9
45°	911.8	818.3	644.8	515.6	334.7	366.7	342.1	310.1	271.9	239.9	236.3
47.5°	1231.7	1105.0	806.0	574.6	391.3	425.7	381.5	339.6	305.2	268.2	262.1
50°	1685.8	1534.4	991.8	621.4	488.5	561.1	481.1	411.0	371.6	344.5	340.8
52.5°	2208.7	2050.0	1128.4	707.5	606.6	728.4	636.2	555.0	503.3	503.3	510.7
55°	2816.6	2657.9	1237.9	826.9	751.8	913.0	813.4	746.9	722.3	826.9	855.2
57.5°	3419.5	3217.7	1311.7	948.7	921.6	1129.6	1010.2	953.6	999.2	1309.2	1405.2
60°	3969.6	3636.1	1369.5	1064.4	1066.8	1301.9	1213.3	1209.6	1279.7	1675.9	1797.7
62.5°	4287.0	3833.0	1365.8	1130.8	1151.7	1408.9	1335.1	1354.8	1394.1	1737.5	1829.7
65°	4504.8	3926.5	1337.5	1160.4	1187.4	1447.1	1354.8	1321.5	1295.7	1538.1	1626.7
67.5°	4354.7	3707.5	1273.6	1117.3	1165.3	1391.7	1269.9	1175.1	1124.7	1247.7	1308.0
70°	3647.2	3092.2	1127.1	1005.3	1049.6	1172.7	1055.8	962.2	909.3	975.8	1004.1
72.5°	2762.4	2352.7	1016.4	940.1	920.4	969.6	858.9	754.3	722.3	765.4	771.5
75°	2200.1	1840.8	935.2	850.3	772.7	820.7	685.4	558.6	540.2	540.2	530.3
77.5°	1650.1	1364.6	797.4	662.0	569.7	648.5	510.7	388.8	364.2	359.3	345.8
80°	1106.2	929.0	536.5	439.3	409.8	481.1	363.0	285.5	286.7	285.5	269.5
82.5°	772.7	717.4	435.6	382.7	350.7	379.0	328.5	274.4	271.9	274.4	257.2
85°	685.4	657.1	422.1	395.0	361.8	365.5	315.0	259.6	260.9	265.8	251.0
87.5°	658.3	626.3	423.3	381.5	353.2	338.4	285.5	239.9	247.3	252.3	239.9
90°	593.1	561.1	388.8	344.5	315.0	294.1	252.3	227.6	237.5	242.4	231.3
92.5°	514.3	481.1	323.6	303.9	296.5	296.5	264.6	242.4	248.6	251.0	241.2
95°	443.0	411.0	287.9	267.0	260.9	262.1	236.3	217.8	221.5	220.3	212.9
97.5°	358.1	338.4	251.0	237.5	231.3	228.9	211.6	198.1	205.5	210.4	204.3
100°	316.2	306.4	242.4	232.6	223.9	222.7	208.0	199.3	205.5	212.9	208.0
102.5°	295.3	287.9	231.3	217.8	211.6	209.2	199.3	189.5	195.6	203.0	199.3
105°	278.1	267.0	221.5	209.2	200.6	199.3	189.5	177.2	180.9	190.7	188.3
107.5°	263.3	255.9	220.3	206.7	195.6	195.6	184.6	174.7	176.0	179.7	179.7
110°	275.6	267.0	228.9	219.0	204.3	199.3	196.9	189.5	183.3	180.9	180.9



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 CATALOG NUMBER: FFX-CLB-90-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	340.8	324.8	286.7	275.6	251.0	233.8	217.8	203.0	193.2	189.5	187.0
115°	402.4	383.9	338.4	310.1	276.9	251.0	228.9	212.9	198.1	193.2	198.1
117.5°	414.7	365.5	295.3	271.9	252.3	236.3	223.9	211.6	200.6	204.3	200.6
120°	411.0	350.7	297.8	331.0	297.8	260.9	231.3	231.3	227.6	209.2	212.9
122.5°	632.5	590.6	526.6	507.0	413.4	377.8	322.4	275.6	230.1	204.3	192.0
125°	866.3	825.7	727.2	652.2	558.6	460.2	353.2	271.9	212.9	188.3	192.0
127.5°	871.2	834.3	740.8	614.0	491.0	393.8	294.1	241.2	208.0	192.0	189.5
130°	679.2	643.5	563.6	466.4	388.8	324.8	264.6	217.8	188.3	176.0	172.3
132.5°	588.2	556.2	482.4	393.8	337.2	286.7	236.3	189.5	169.8	161.2	162.4
135°	494.7	456.5	386.4	338.4	302.7	257.2	211.6	173.5	163.7	161.2	160.0
137.5°	419.6	392.5	343.3	306.4	271.9	231.3	185.8	162.4	158.7	161.2	158.7
140°	356.8	334.7	307.6	275.6	233.8	195.6	166.1	155.0	161.2	162.4	161.2
142.5°	307.6	285.5	257.2	214.1	194.4	177.2	169.8	161.2	161.2	160.0	158.7
145°	257.2	227.6	214.1	220.3	208.0	190.7	177.2	160.0	153.8	153.8	155.0
147.5°	295.3	264.6	247.3	233.8	210.4	185.8	164.9	148.9	146.4	151.4	150.1
150°	254.7	226.4	214.1	195.6	180.9	162.4	148.9	142.7	144.0	150.1	150.1
152.5°	203.0	183.3	176.0	171.0	163.7	152.6	145.2	142.7	145.2	147.7	147.7
155°	190.7	179.7	171.0	167.3	158.7	150.1	144.0	142.7	145.2	147.7	150.1
157.5°	178.4	174.7	163.7	160.0	152.6	148.9	145.2	145.2	146.4	148.9	151.4
160°	169.8	168.6	158.7	157.5	152.6	150.1	150.1	151.4	152.6	152.6	152.6
162.5°	164.9	164.9	161.2	158.7	157.5	156.3	160.0	161.2	160.0	160.0	160.0
165°	166.1	167.3	163.7	161.2	160.0	162.4	168.6	168.6	166.1	164.9	163.7
167.5°	167.3	168.6	166.1	164.9	164.9	167.3	169.8	168.6	167.3	166.1	164.9
170°	166.1	167.3	167.3	168.6	168.6	168.6	171.0	171.0	168.6	167.3	167.3
172.5°	168.6	169.8	171.0	172.3	173.5	172.3	173.5	173.5	173.5	173.5	174.7
175°	176.0	176.0	177.2	177.2	176.0	177.2	177.2	177.2	178.4	180.9	180.9
177.5°	179.7	179.7	178.4	178.4	177.2	178.4	178.4	178.4	178.4	179.7	178.4
180°	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1

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.

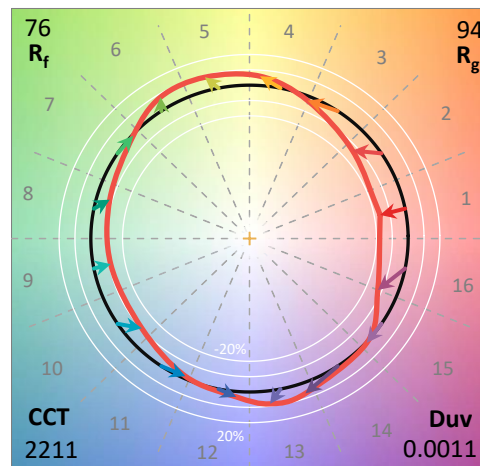
Test Information

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

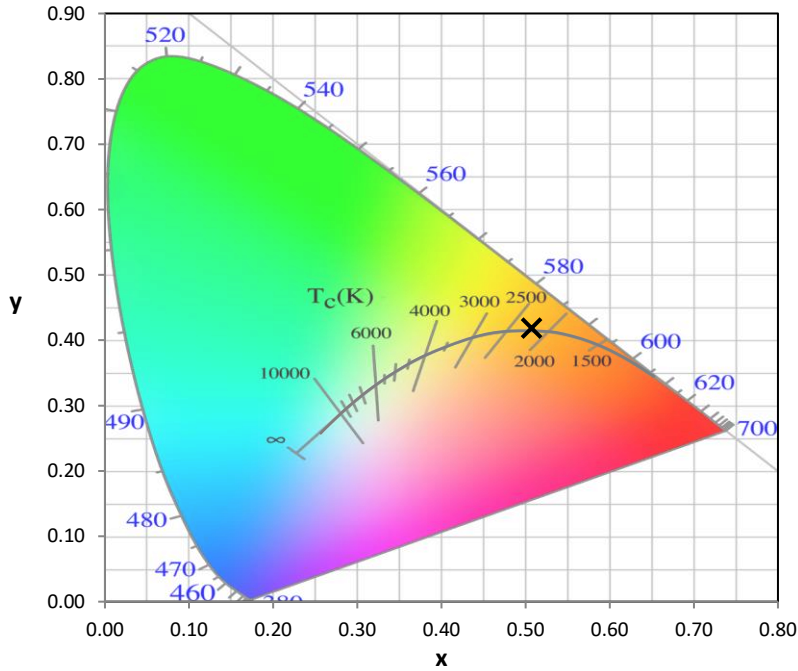
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

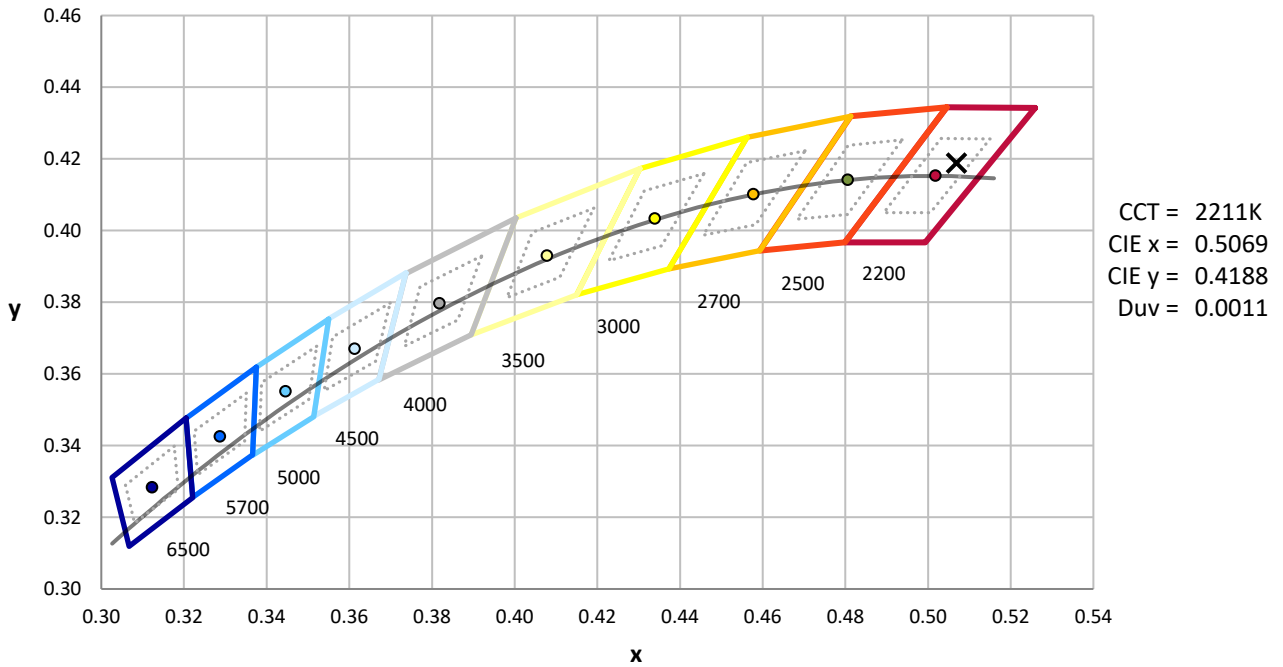
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

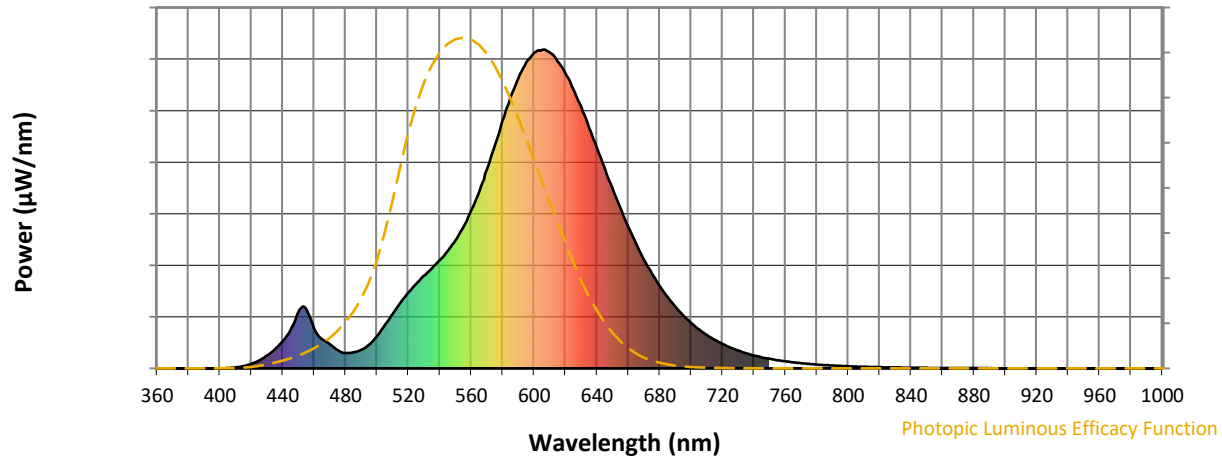


CCT = 2211K
CIE x = 0.5069
CIE y = 0.4188
Duv = 0.0011

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

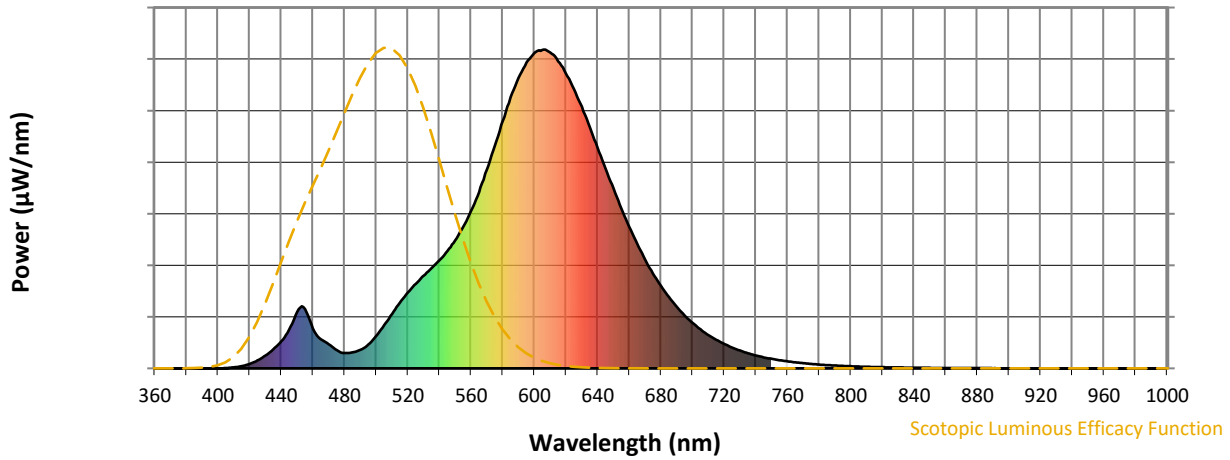


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



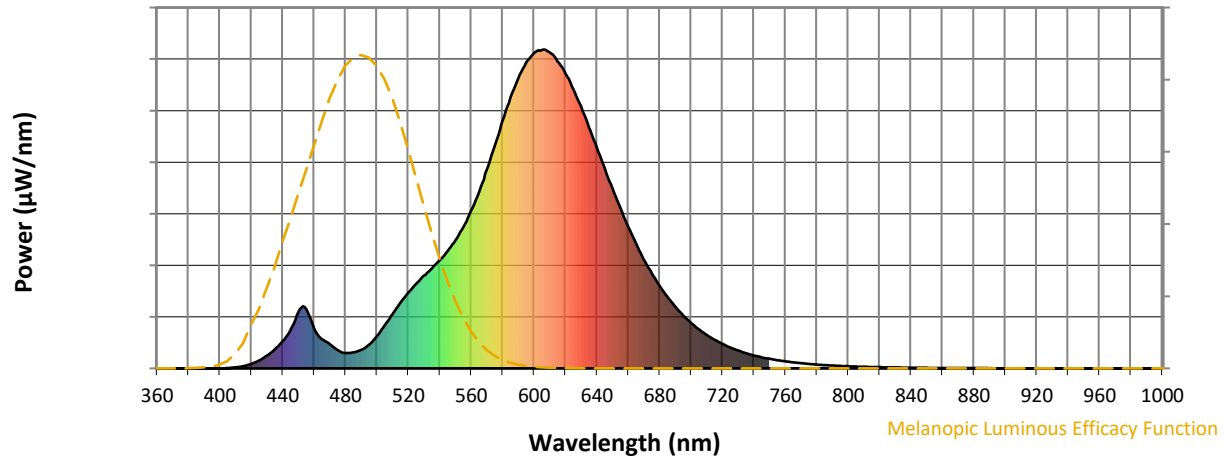
Scotopic Lumens: NR

S/P: 0.87

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

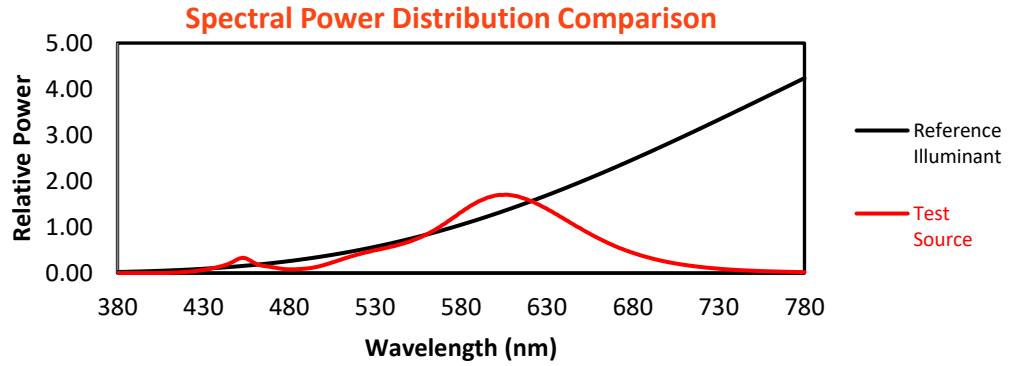
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR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

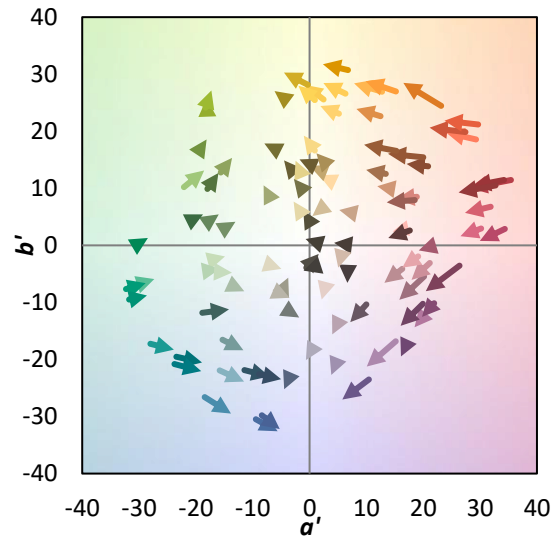
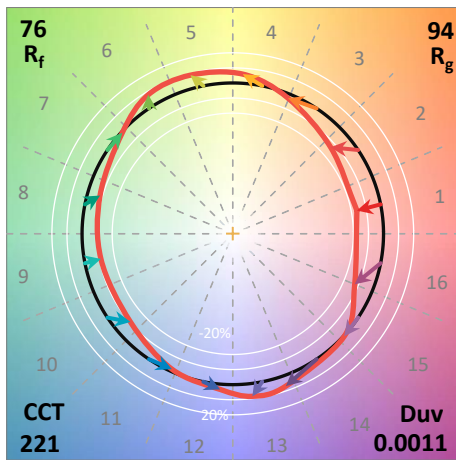
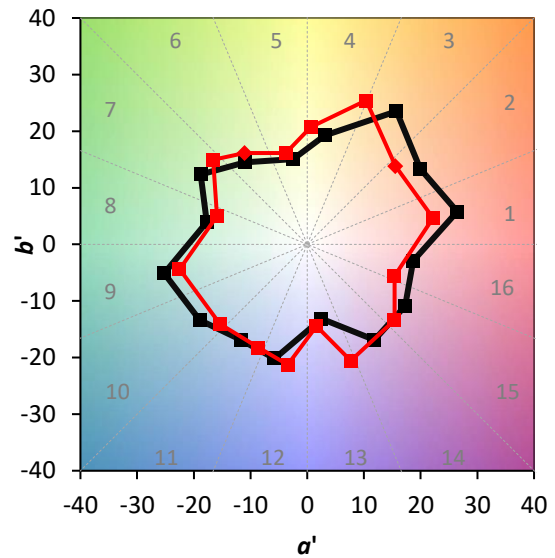
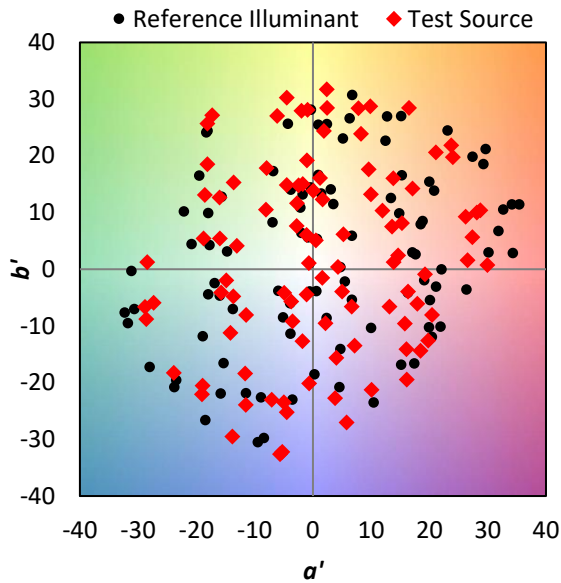
TM-30-18

Summary

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



Color Vector Graphics

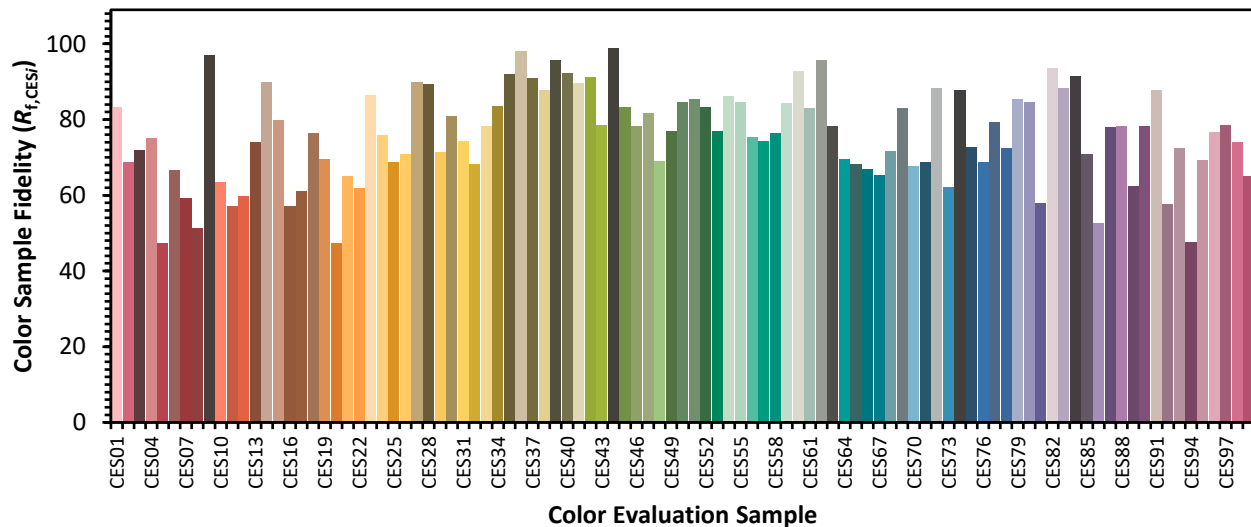


REPORT NUMBER: SP1-2406-133-2

TM-30-18

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

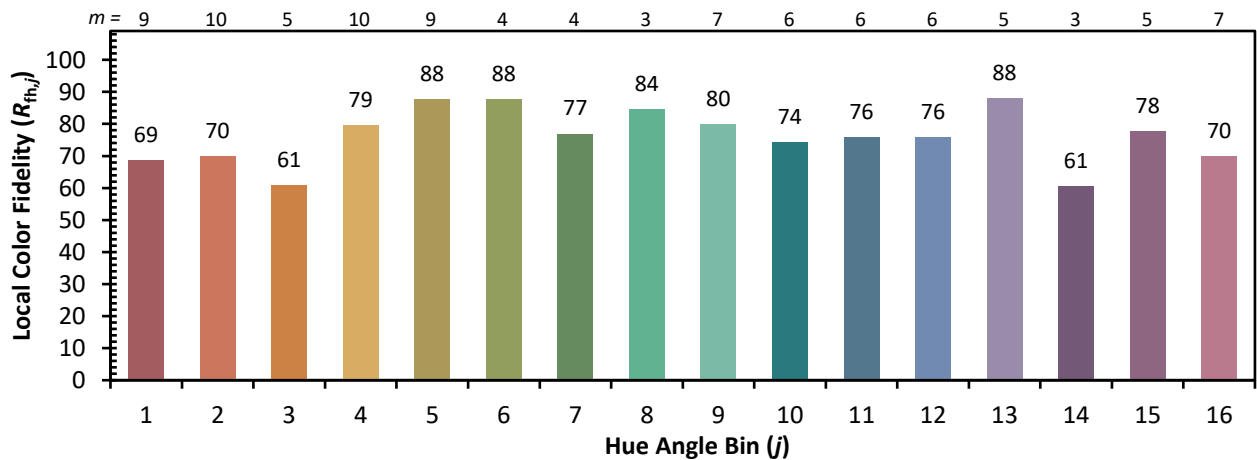
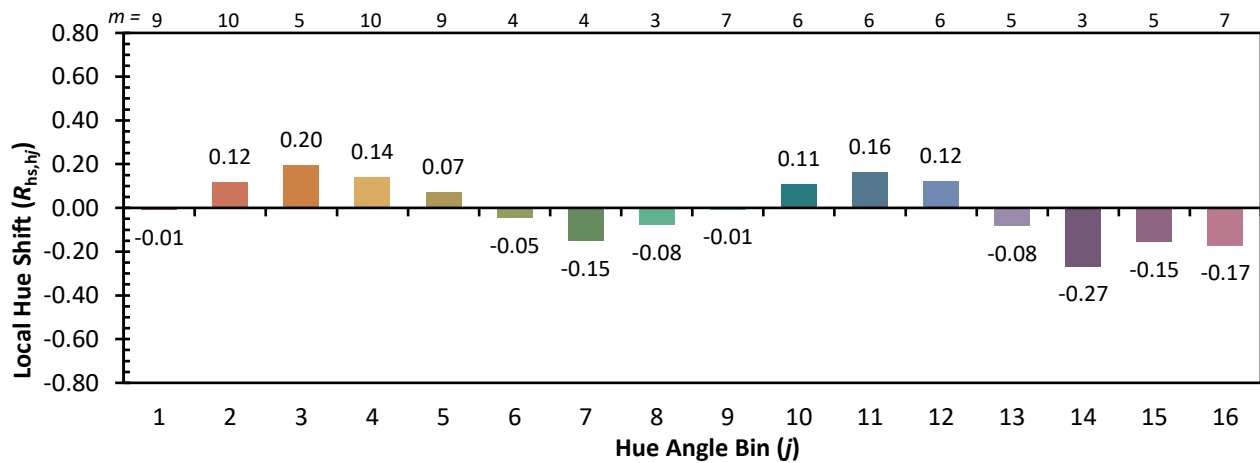
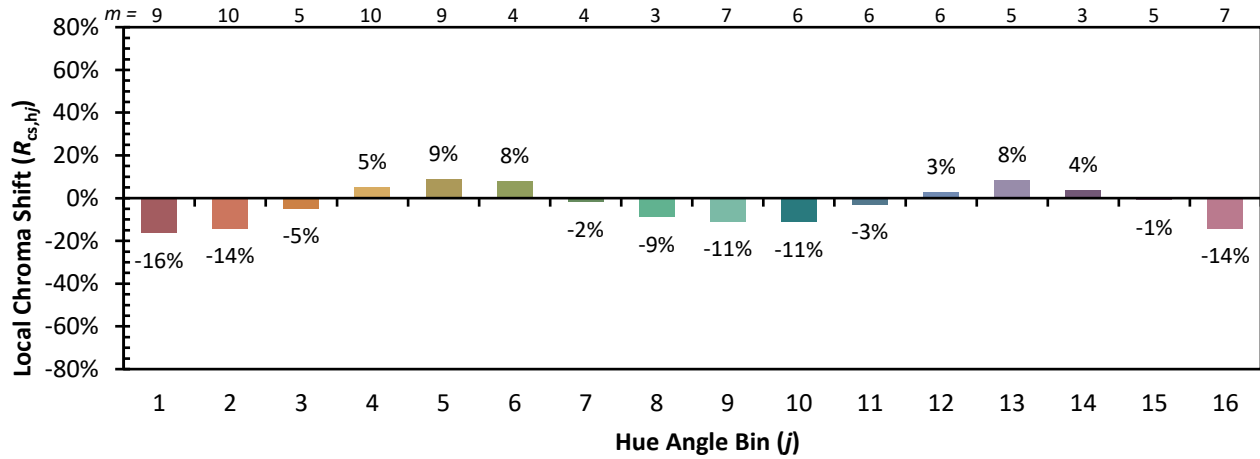
CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 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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TM-30-18

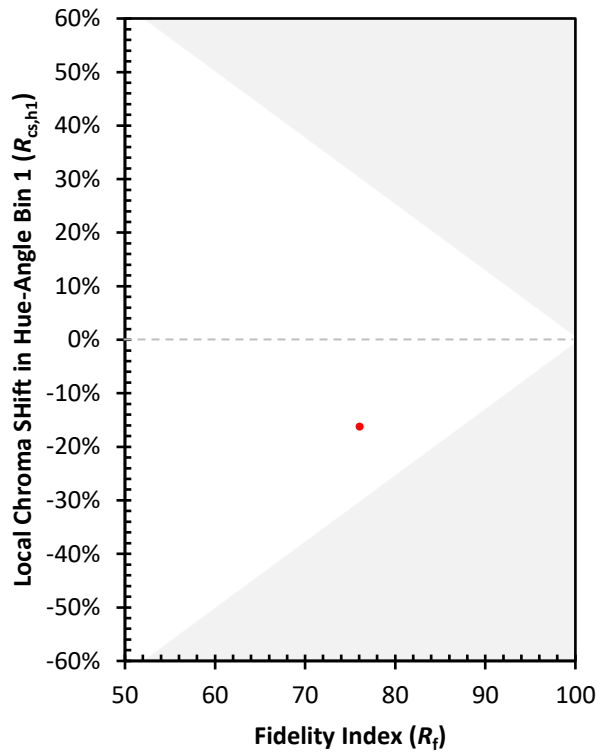
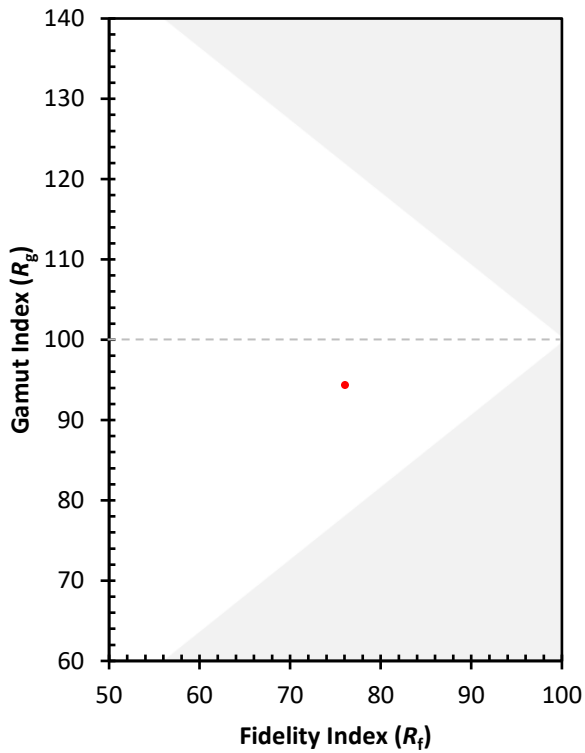
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)