

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: P856192

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856192
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-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

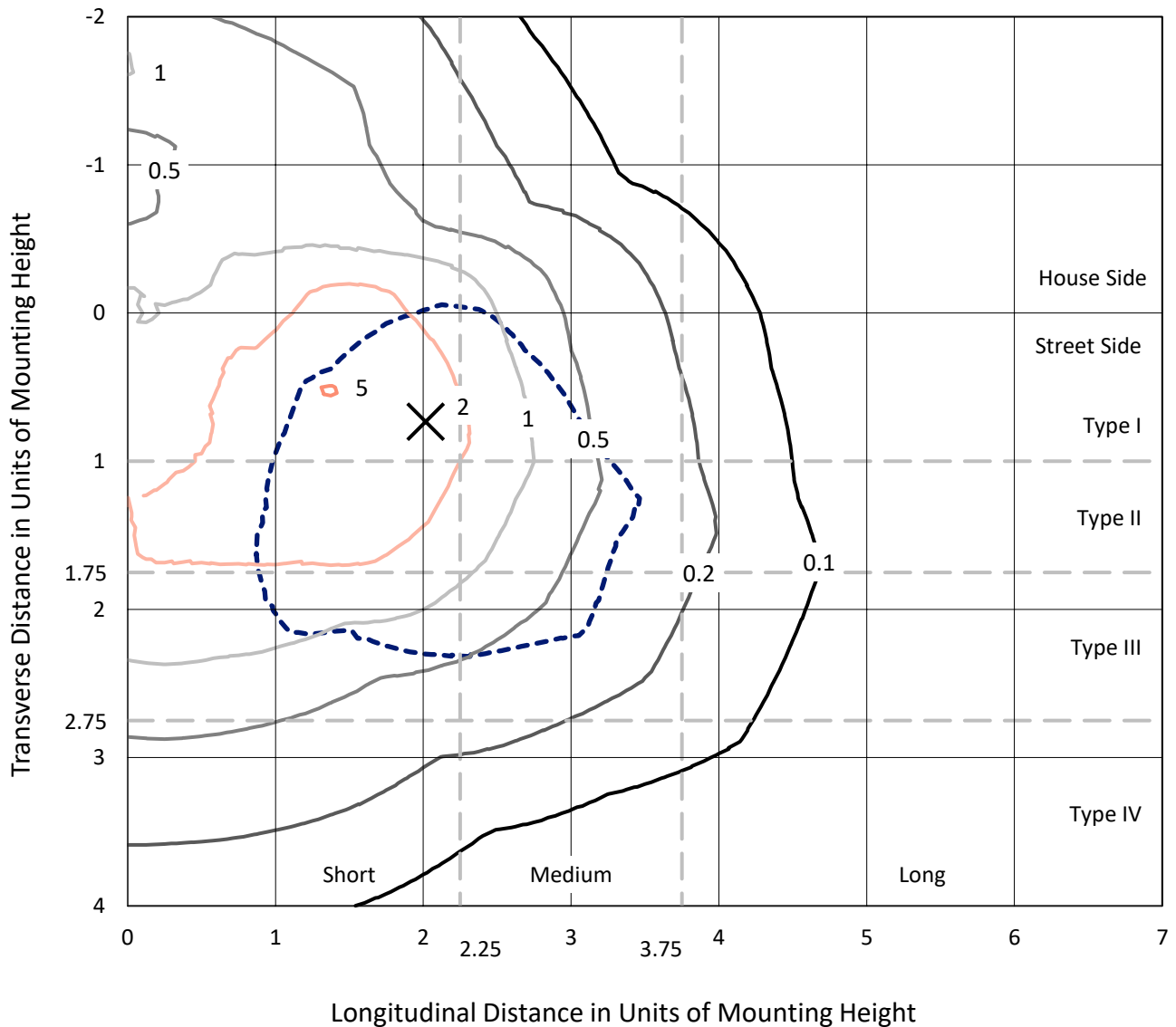
Lumens per Lamp: N/A
Luminaire Lumens: 11849.3 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U4 - G4

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

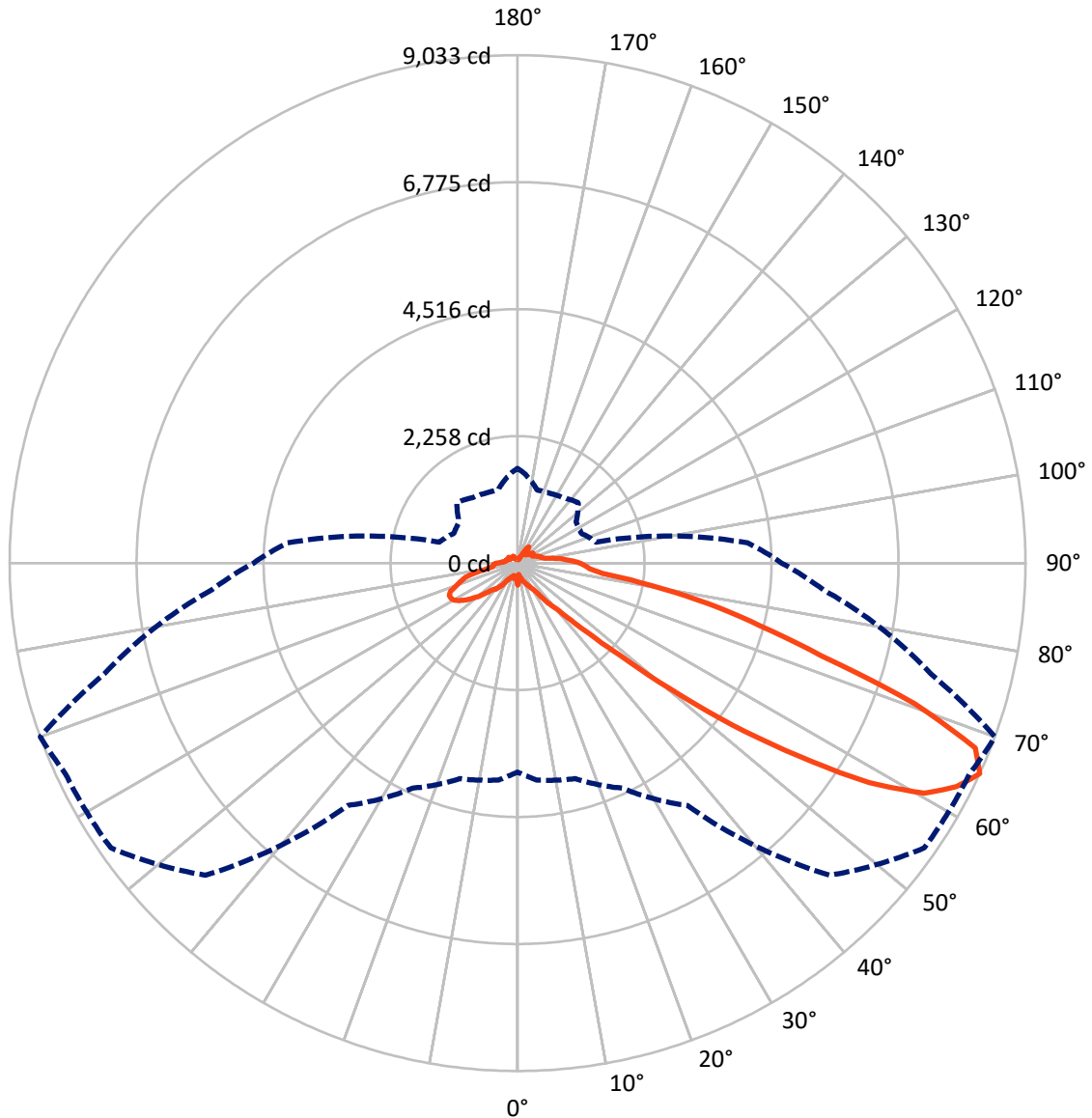
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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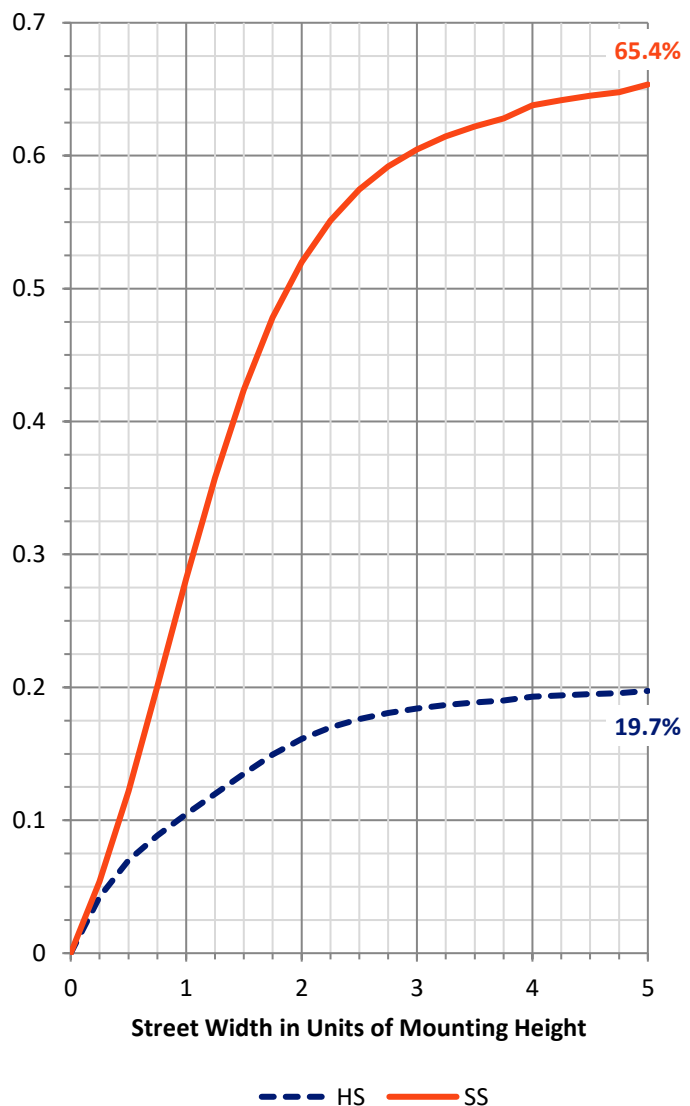
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.3	455.3	2885.6
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	8013.9	949.8	8963.8
	% Fixture	67.6	8.0	75.6
Total	Lumens	10444.2	1405.1	11849.3
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.2
10°-20°	79.2	0.7
20°-30°	159.9	1.3
30°-40°	338.4	2.9
40°-50°	789.1	6.7
50°-60°	2351.6	19.8
60°-70°	3768.2	31.8
70°-80°	2164.7	18.3
80°-90°	767.7	6.5
90°-100°	452.8	3.8
100°-110°	273.6	2.3
110°-120°	205.7	1.7
120°-130°	174.2	1.5
130°-140°	115.6	1.0
140°-150°	108.6	0.9
150°-160°	48.2	0.4
160°-170°	19.9	0.2
170°-180°	6.6	0.1
0°-90°	10444.2	88.1
0°-180°	11849.3	100.0



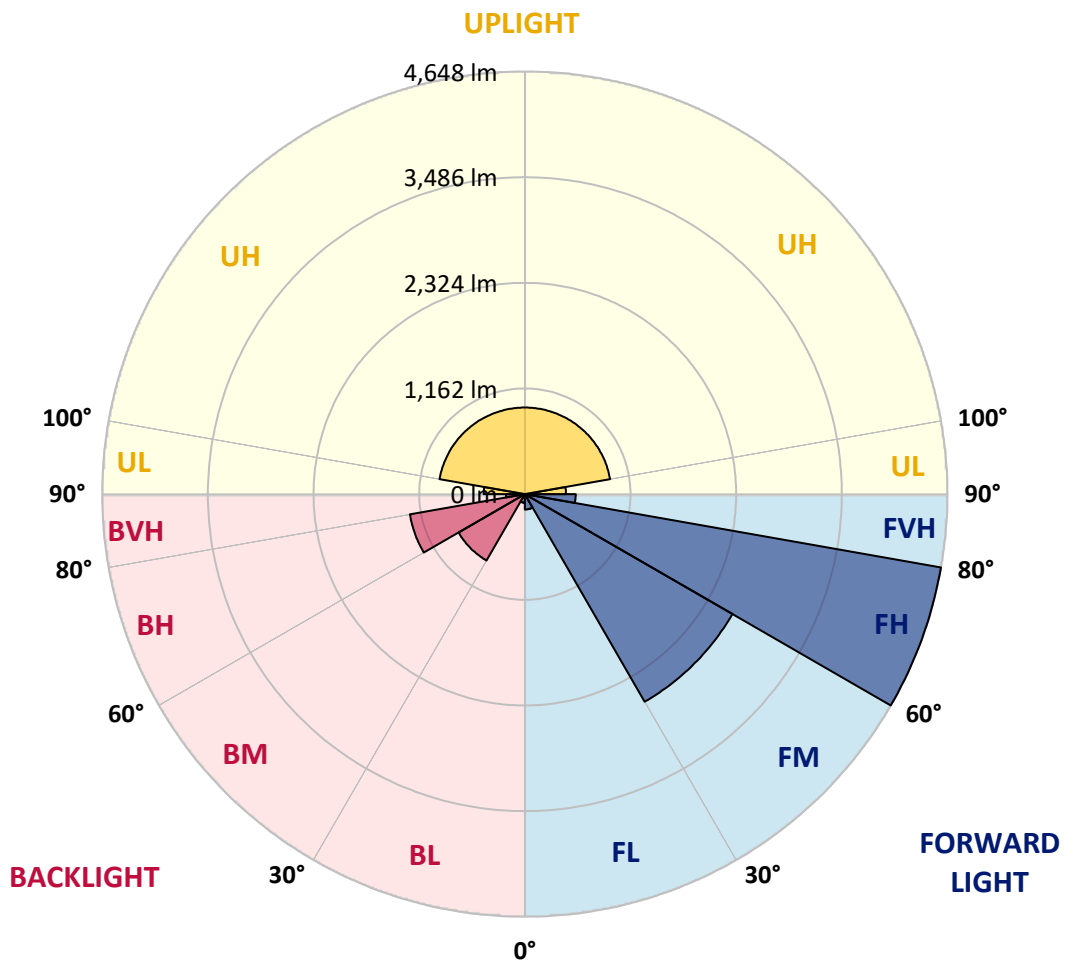
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.8	1.4			
FM (30°-60°)	2636.5	22.3			
FH (60°-80°)	4648.3	39.2			G2/5000
FVH (80°-90°)	559.3	4.7			G4/750
BL (0°-30°)	94.7	0.8	B0/110		
BM (30°-60°)	842.6	7.1	B1/1000		
BH (60°-80°)	1284.6	10.8	B3/2500		G3/2500
BVH (80°-90°)	208.5	1.8			G2/225
UL (90°-100°)	452.8	3.8		U3/500	
UH (100°-180°)	952.3	8.0		U4/1000	

BUG Rating: B3-U4-G4

Type III Short





REPORT NUMBER: P856192

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1
2.5°	327.8	325.2	331.5	336.5	342.8	334.0	319.0	334.0	339.1	354.1	365.4
5°	278.8	280.0	286.3	300.1	312.7	310.2	271.2	221.0	205.9	199.7	200.9
7.5°	276.3	275.0	271.2	270.0	277.5	305.2	301.4	265.0	237.3	213.5	189.6
10°	291.3	295.1	298.9	298.9	293.9	276.3	275.0	272.5	262.5	251.2	236.1
12.5°	360.4	365.4	369.2	356.6	340.3	322.7	308.9	286.3	276.3	270.0	258.7
15°	435.8	440.8	434.5	410.6	381.8	349.1	336.5	337.8	324.0	307.7	283.8
17.5°	475.9	473.4	447.1	419.4	396.8	371.7	354.1	342.8	337.8	331.5	307.7
20°	450.8	444.5	428.2	416.9	414.4	400.6	389.3	379.2	373.0	359.2	330.3
22.5°	432.0	432.0	429.5	427.0	442.0	435.8	430.7	416.9	408.1	390.5	347.8
25°	455.8	455.8	457.1	453.3	473.4	473.4	473.4	458.4	447.1	421.9	370.5
27.5°	489.8	488.5	492.3	489.8	507.3	511.1	518.6	507.3	491.0	460.9	395.6
30°	526.2	526.2	529.9	532.4	550.0	558.8	567.6	562.6	542.5	506.1	438.3
32.5°	565.1	563.8	575.1	587.7	597.7	614.1	617.8	630.4	610.3	567.6	501.1
35°	621.6	625.4	655.5	681.9	710.8	720.8	738.4	787.4	767.3	709.5	632.9
37.5°	899.1	880.3	872.8	842.6	838.9	897.9	919.2	965.7	925.5	847.6	730.9
40°	953.1	930.5	920.5	891.6	901.6	1023.5	1002.1	1169.1	1071.2	946.9	871.5
42.5°	897.9	894.1	1012.2	1034.8	1022.2	1215.6	1174.2	1483.1	1378.8	1090.0	1005.9
45°	1083.7	1073.7	1123.9	1164.1	1195.5	1543.3	1518.2	1843.5	1798.3	1327.4	1244.5
47.5°	1223.1	1213.1	1270.8	1405.2	1588.6	1965.3	2112.2	2603.2	2450.0	1825.9	1637.5
50°	1640.0	1633.8	1789.5	1933.9	2236.5	2792.8	3196.0	3725.9	3501.1	2550.5	2203.9
52.5°	2034.4	2054.4	2236.5	2514.1	2834.3	3838.9	4414.1	4785.8	4783.3	3321.5	2829.3
55°	2316.9	2384.7	2599.5	3100.5	3545.1	4766.9	5543.0	5818.0	6049.1	4431.6	3445.8
57.5°	2865.7	2983.7	3189.7	3685.7	4259.6	5889.6	6997.2	6952.0	7367.6	5583.2	4116.4
60°	3429.5	3567.7	3636.7	4092.6	4846.0	6970.8	7996.8	7891.3	8309.5	6585.3	4822.2
62.5°	3605.3	3741.0	3808.8	4304.8	5269.2	7583.6	8457.7	8499.1	8759.0	7299.8	5240.4
65°	3715.8	3871.6	3969.5	4416.6	5260.4	7851.1	8830.6	8869.5	9032.8	7607.5	5456.3
67.5°	3695.7	3870.3	3995.9	4396.5	4969.1	7628.8	8737.7	8561.9	8780.4	7387.7	5229.1
70°	3296.4	3448.4	3573.9	3882.9	4147.8	6427.1	7559.8	7269.7	7495.7	6172.1	4317.4
72.5°	2693.6	2756.4	2865.7	3011.4	3143.2	4768.2	5766.5	5517.9	5648.5	4630.0	3234.9
75°	2212.7	2200.1	2298.1	2403.6	2362.1	3483.5	4562.2	4334.9	4456.7	3516.2	2580.6
77.5°	1640.0	1633.8	1775.7	1766.9	1704.1	2412.3	3616.6	3452.1	3468.5	2596.9	1932.6
80°	985.8	1004.6	1142.8	1170.4	1096.3	1513.2	2581.9	2504.0	2387.2	1774.4	1355.0
82.5°	691.9	720.8	793.7	823.8	787.4	1105.1	1710.4	1656.4	1518.2	1287.2	954.4
85°	705.7	710.8	719.6	722.1	705.7	992.1	1327.4	1297.2	1288.4	1078.7	787.4
87.5°	705.7	717.0	724.6	723.3	694.4	929.3	1224.4	1176.7	1188.0	1008.4	761.0
90°	632.9	653.0	651.7	655.5	631.7	840.1	1110.1	1071.2	1086.2	909.2	691.9
92.5°	517.4	531.2	545.0	571.4	536.2	714.5	938.1	901.6	920.5	773.6	589.0
95°	481.0	493.5	502.3	516.1	481.0	635.4	830.1	786.1	793.7	656.8	498.5
97.5°	389.3	396.8	406.9	409.4	384.3	488.5	631.7	594.0	599.0	509.8	391.8
100°	326.5	332.8	341.6	341.6	325.2	404.4	499.8	479.7	477.2	416.9	331.5
102.5°	308.9	311.4	325.2	322.7	306.4	373.0	452.1	439.5	440.8	386.8	311.4
105°	303.9	303.9	317.7	311.4	297.6	355.4	423.2	419.4	418.2	367.9	298.9
107.5°	298.9	298.9	312.7	306.4	295.1	335.3	398.1	385.5	384.3	350.4	282.5
110°	278.8	282.5	297.6	290.1	281.3	316.5	365.4	356.6	356.6	330.3	270.0



REPORT NUMBER: P856192

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	247.4	249.9	263.7	257.4	251.2	281.3	324.0	312.7	313.9	296.4	252.4
115°	231.1	234.8	248.6	239.9	234.8	262.5	300.1	292.6	295.1	278.8	238.6
117.5°	232.3	233.6	243.6	244.9	234.8	257.4	277.5	280.0	283.8	273.8	242.4
120°	282.5	276.3	281.3	275.0	270.0	296.4	320.2	322.7	321.5	302.6	241.1
122.5°	285.1	272.5	286.3	277.5	272.5	301.4	327.8	334.0	327.8	311.4	246.1
125°	227.3	231.1	232.3	234.8	239.9	271.2	285.1	286.3	287.6	282.5	238.6
127.5°	199.7	198.4	192.1	193.4	204.7	232.3	242.4	249.9	244.9	242.4	214.7
130°	190.9	193.4	192.1	192.1	198.4	219.8	227.3	238.6	234.8	229.8	195.9
132.5°	175.8	178.3	189.6	203.4	200.9	208.5	211.0	222.3	223.5	223.5	197.2
135°	167.0	169.5	178.3	195.9	190.9	194.6	193.4	203.4	204.7	205.9	185.9
137.5°	170.8	172.0	167.0	169.5	173.3	189.6	194.6	204.7	204.7	199.7	173.3
140°	179.6	179.6	168.3	164.5	172.0	197.2	207.2	223.5	221.0	212.2	179.6
142.5°	165.8	168.3	174.6	182.1	198.4	267.5	267.5	298.9	308.9	311.4	217.2
145°	216.0	217.2	219.8	223.5	254.9	350.4	319.0	341.6	350.4	359.2	261.2
147.5°	248.6	251.2	248.6	238.6	267.5	300.1	285.1	295.1	305.2	307.7	262.5
150°	194.6	192.1	190.9	189.6	221.0	231.1	218.5	217.2	224.8	231.1	203.4
152.5°	141.9	140.6	139.4	138.1	165.8	159.5	150.7	150.7	153.2	154.5	143.2
155°	125.6	124.3	121.8	123.1	140.6	134.4	126.8	124.3	126.8	125.6	119.3
157.5°	103.0	100.5	100.5	105.5	114.3	106.7	101.7	98.0	99.2	98.0	99.2
160°	85.4	84.1	85.4	91.7	96.7	90.4	85.4	82.9	82.9	85.4	90.4
162.5°	76.6	75.3	76.6	79.1	81.6	75.3	71.6	71.6	72.8	77.9	87.9
165°	66.6	66.6	67.8	69.1	70.3	66.6	65.3	65.3	67.8	75.3	86.6
167.5°	64.0	64.0	64.0	64.0	64.0	62.8	61.5	65.3	67.8	71.6	79.1
170°	62.8	61.5	62.8	62.8	62.8	62.8	62.8	66.6	66.6	67.8	71.6
172.5°	64.0	64.0	64.0	65.3	67.8	69.1	67.8	70.3	69.1	69.1	69.1
175°	65.3	65.3	66.6	67.8	69.1	70.3	71.6	71.6	71.6	72.8	72.8
177.5°	65.3	65.3	66.6	67.8	69.1	66.6	64.0	62.8	61.5	61.5	61.5
180°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8



REPORT NUMBER: P856192

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1
2.5°	355.4	324.0	280.0	298.9	356.6	345.3	287.6	252.4	254.9	280.0	282.5
5°	207.2	213.5	242.4	302.6	313.9	259.9	209.7	202.2	243.6	301.4	312.7
7.5°	187.1	187.1	211.0	293.9	330.3	271.2	204.7	184.6	216.0	263.7	271.2
10°	226.0	218.5	221.0	251.2	265.0	217.2	183.3	174.6	192.1	198.4	195.9
12.5°	254.9	259.9	283.8	277.5	217.2	177.1	165.8	164.5	174.6	180.8	179.6
15°	273.8	265.0	247.4	227.3	207.2	184.6	168.3	158.2	146.9	141.9	141.9
17.5°	291.3	273.8	242.4	223.5	203.4	187.1	172.0	157.0	151.9	153.2	153.2
20°	312.7	291.3	262.5	241.1	217.2	194.6	175.8	159.5	155.7	157.0	155.7
22.5°	329.0	310.2	280.0	252.4	227.3	202.2	183.3	167.0	162.0	160.7	160.7
25°	349.1	332.8	301.4	267.5	237.3	213.5	197.2	178.3	169.5	167.0	167.0
27.5°	375.5	361.7	326.5	290.1	254.9	227.3	209.7	189.6	177.1	172.0	170.8
30°	415.7	396.8	357.9	312.7	276.3	247.4	226.0	200.9	185.9	177.1	175.8
32.5°	475.9	452.1	400.6	344.1	300.1	270.0	243.6	212.2	193.4	183.3	182.1
35°	604.0	577.7	512.4	433.2	369.2	307.7	266.2	224.8	200.9	188.4	187.1
37.5°	684.4	636.7	557.6	486.0	408.1	371.7	319.0	263.7	211.0	194.6	192.1
40°	801.2	739.7	640.4	543.8	406.9	405.6	370.5	321.5	248.6	205.9	202.2
42.5°	887.8	808.7	684.4	576.4	410.6	421.9	391.8	349.1	295.1	239.9	233.6
45°	1064.9	964.4	767.3	605.3	415.7	440.8	410.6	365.4	317.7	278.8	275.0
47.5°	1396.4	1257.0	928.0	660.5	472.2	503.6	449.6	396.8	350.4	311.4	302.6
50°	1859.8	1692.8	1122.7	709.5	568.9	640.4	552.5	472.2	416.9	386.8	378.0
52.5°	2403.6	2216.4	1244.5	786.1	685.7	808.7	712.0	617.8	545.0	550.0	545.0
55°	3010.1	2789.1	1351.2	901.6	835.1	995.8	890.3	808.7	769.8	879.0	885.3
57.5°	3595.3	3359.2	1417.8	1023.5	1002.1	1211.8	1088.8	1031.0	1046.1	1366.3	1441.6
60°	4154.1	3781.1	1469.3	1137.7	1142.8	1381.4	1287.2	1275.9	1322.3	1733.0	1847.2
62.5°	4476.8	3997.1	1466.7	1211.8	1230.7	1485.6	1402.7	1409.0	1444.1	1793.2	1888.7
65°	4696.6	4106.4	1441.6	1249.5	1268.3	1523.3	1416.5	1367.5	1344.9	1583.5	1685.3
67.5°	4564.7	3895.4	1381.4	1216.8	1242.0	1463.0	1329.9	1206.8	1167.9	1297.2	1357.5
70°	3859.0	3255.0	1230.7	1106.3	1122.7	1234.4	1121.4	987.0	948.1	1015.9	1043.5
72.5°	2915.9	2499.0	1103.8	1022.2	983.3	1020.9	910.4	769.8	761.0	797.4	802.4
75°	2329.5	1961.5	1005.9	921.7	817.5	856.4	723.3	572.6	561.3	563.8	551.3
77.5°	1755.6	1459.2	846.4	725.8	619.1	683.1	537.5	395.6	376.7	369.2	355.4
80°	1201.8	1013.4	575.1	486.0	439.5	501.1	383.0	290.1	288.8	286.3	271.2
82.5°	852.7	782.3	469.7	413.2	373.0	394.3	332.8	271.2	265.0	266.2	249.9
85°	745.9	708.3	453.3	418.2	379.2	378.0	317.7	253.7	251.2	252.4	237.3
87.5°	713.3	671.8	443.3	399.3	361.7	342.8	280.0	223.5	229.8	233.6	219.8
90°	639.2	596.5	401.8	356.6	320.2	287.6	237.3	202.2	212.2	214.7	202.2
92.5°	538.7	494.8	312.7	286.3	268.7	263.7	222.3	192.1	199.7	200.9	190.9
95°	455.8	415.7	272.5	252.4	239.9	238.6	200.9	174.6	178.3	177.1	168.3
97.5°	366.7	337.8	238.6	219.8	205.9	198.4	172.0	151.9	157.0	159.5	153.2
100°	312.7	296.4	222.3	205.9	189.6	179.6	157.0	140.6	145.7	150.7	145.7
102.5°	293.9	281.3	218.5	200.9	183.3	170.8	149.4	131.9	134.4	140.6	136.9
105°	278.8	267.5	212.2	193.4	177.1	163.3	145.7	124.3	123.1	129.3	128.1
107.5°	262.5	252.4	208.5	185.9	168.3	155.7	139.4	119.3	114.3	118.0	116.8
110°	253.7	243.6	200.9	177.1	158.2	146.9	131.9	115.5	109.3	110.5	110.5



REPORT NUMBER: P856192
 CATALOG NUMBER: FFX-CLB-90-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	236.1	224.8	184.6	162.0	146.9	136.9	121.8	110.5	103.0	105.5	106.7
115°	224.8	209.7	169.5	153.2	136.9	128.1	119.3	109.3	100.5	100.5	101.7
117.5°	232.3	203.4	158.2	145.7	136.9	134.4	131.9	116.8	99.2	98.0	98.0
120°	222.3	204.7	172.0	168.3	159.5	151.9	135.6	115.5	96.7	94.2	94.2
122.5°	217.2	213.5	194.6	182.1	165.8	150.7	126.8	105.5	92.9	90.4	90.4
125°	214.7	211.0	188.4	164.5	143.2	128.1	113.0	99.2	91.7	87.9	87.9
127.5°	197.2	179.6	151.9	138.1	124.3	118.0	105.5	96.7	87.9	82.9	82.9
130°	182.1	165.8	141.9	126.8	115.5	110.5	101.7	92.9	84.1	79.1	77.9
132.5°	179.6	163.3	138.1	119.3	109.3	104.2	99.2	89.2	79.1	74.1	72.8
135°	167.0	148.2	123.1	113.0	106.7	103.0	99.2	86.6	76.6	71.6	71.6
137.5°	154.5	135.6	116.8	111.8	106.7	103.0	91.7	79.1	71.6	67.8	67.8
140°	155.7	134.4	119.3	115.5	108.0	96.7	86.6	77.9	71.6	66.6	65.3
142.5°	165.8	139.4	120.6	109.3	104.2	98.0	94.2	84.1	71.6	62.8	60.3
145°	182.1	150.7	135.6	130.6	121.8	110.5	96.7	77.9	65.3	57.8	56.5
147.5°	200.9	169.5	151.9	138.1	120.6	101.7	82.9	67.8	57.8	55.3	54.0
150°	174.6	144.4	130.6	111.8	96.7	81.6	67.8	60.3	55.3	54.0	54.0
152.5°	131.9	108.0	96.7	87.9	79.1	71.6	64.0	59.0	55.3	52.7	52.7
155°	114.3	101.7	90.4	81.6	72.8	65.3	59.0	56.5	52.7	52.7	51.5
157.5°	100.5	94.2	79.1	71.6	65.3	61.5	59.0	55.3	54.0	52.7	52.7
160°	91.7	87.9	72.8	66.6	62.8	60.3	60.3	57.8	54.0	52.7	52.7
162.5°	89.2	85.4	70.3	64.0	60.3	61.5	64.0	62.8	57.8	55.3	55.3
165°	87.9	85.4	71.6	62.8	60.3	61.5	67.8	69.1	62.8	59.0	57.8
167.5°	80.4	79.1	75.3	69.1	65.3	65.3	69.1	70.3	67.8	67.8	66.6
170°	72.8	72.8	74.1	75.3	72.8	69.1	66.6	66.6	70.3	74.1	75.3
172.5°	70.3	71.6	74.1	77.9	77.9	72.8	69.1	67.8	71.6	76.6	77.9
175°	74.1	75.3	76.6	76.6	74.1	72.8	71.6	70.3	72.8	77.9	79.1
177.5°	61.5	61.5	62.8	62.8	61.5	62.8	61.5	59.0	59.0	59.0	59.0
180°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8

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.

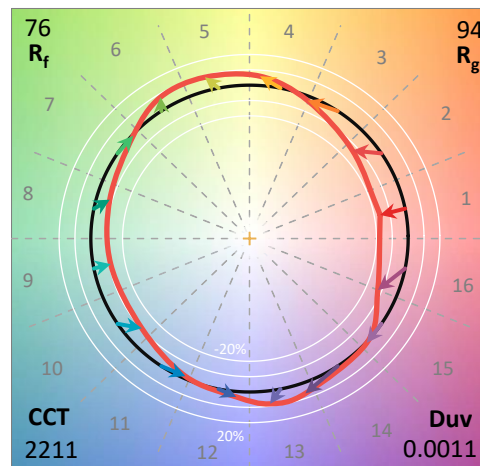
Test Information

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

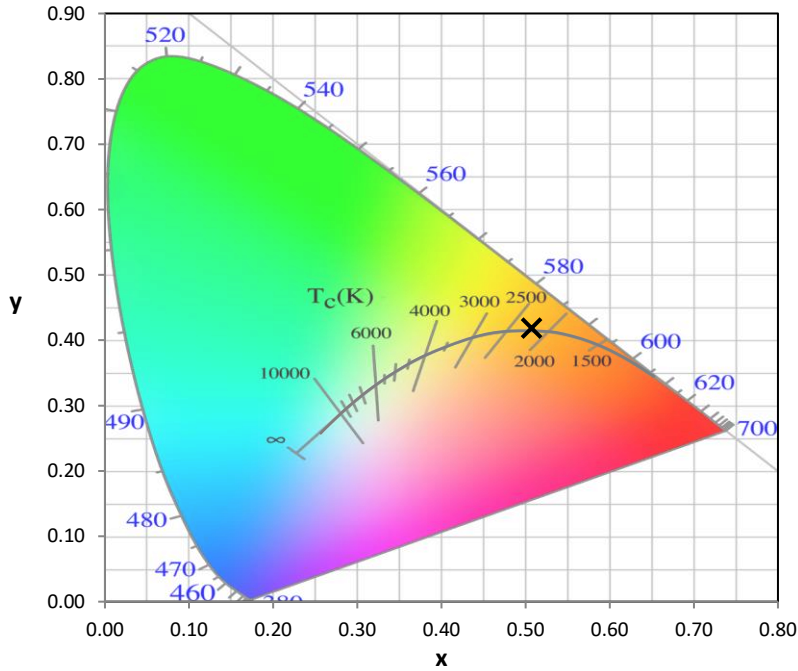
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

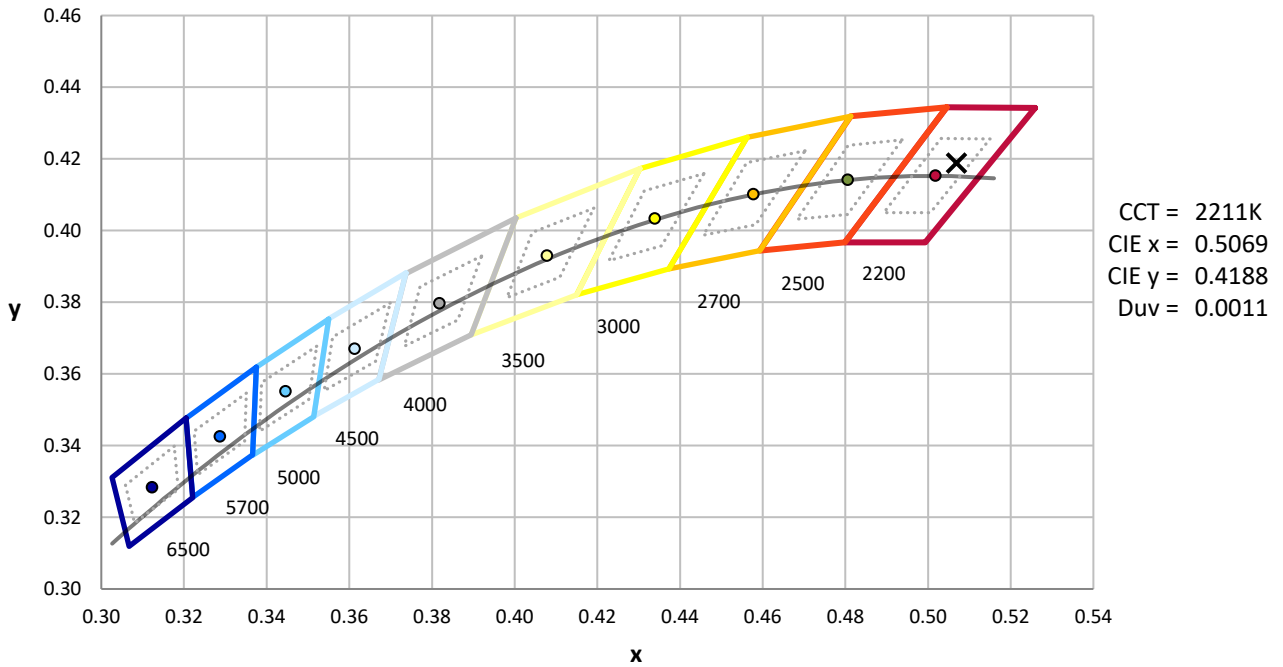
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



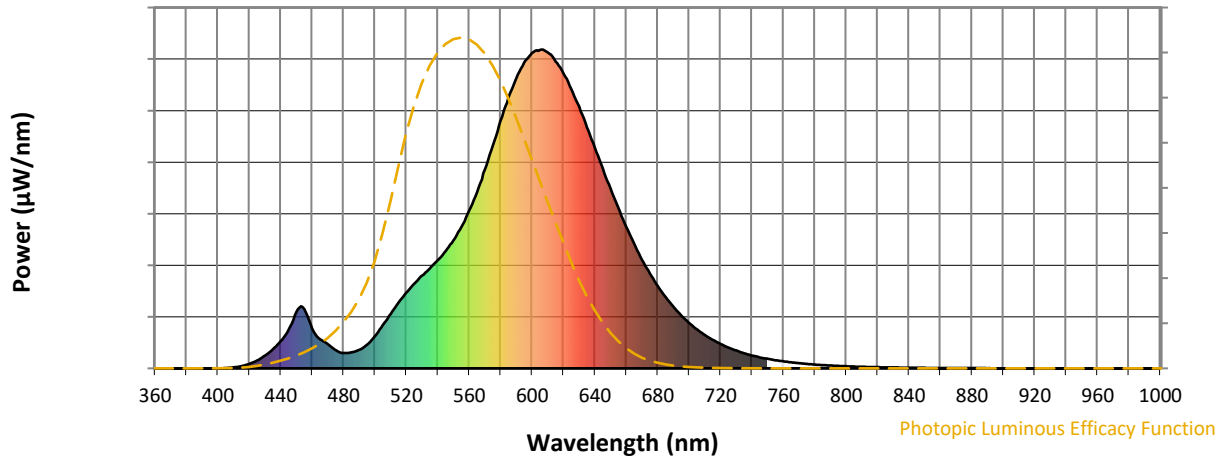
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

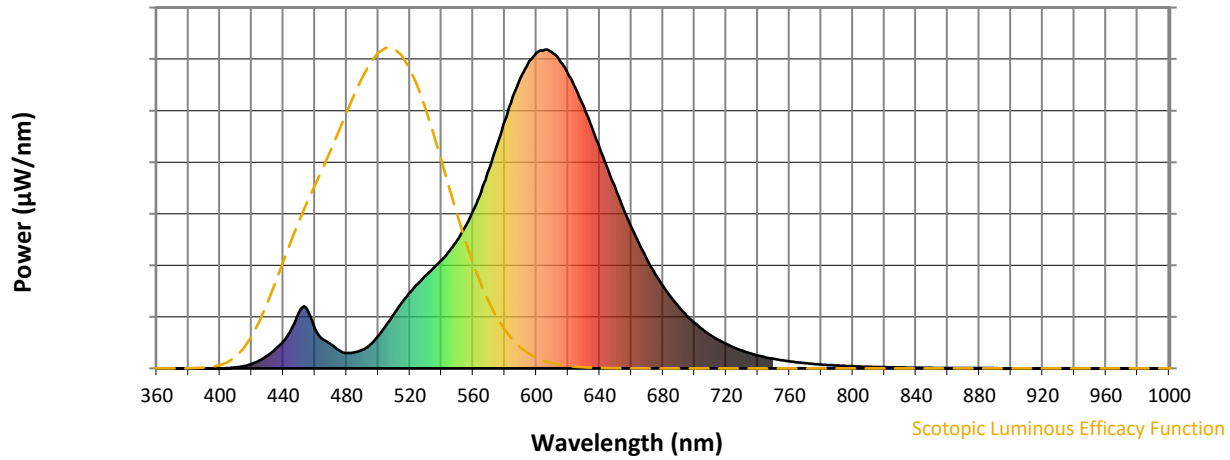


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



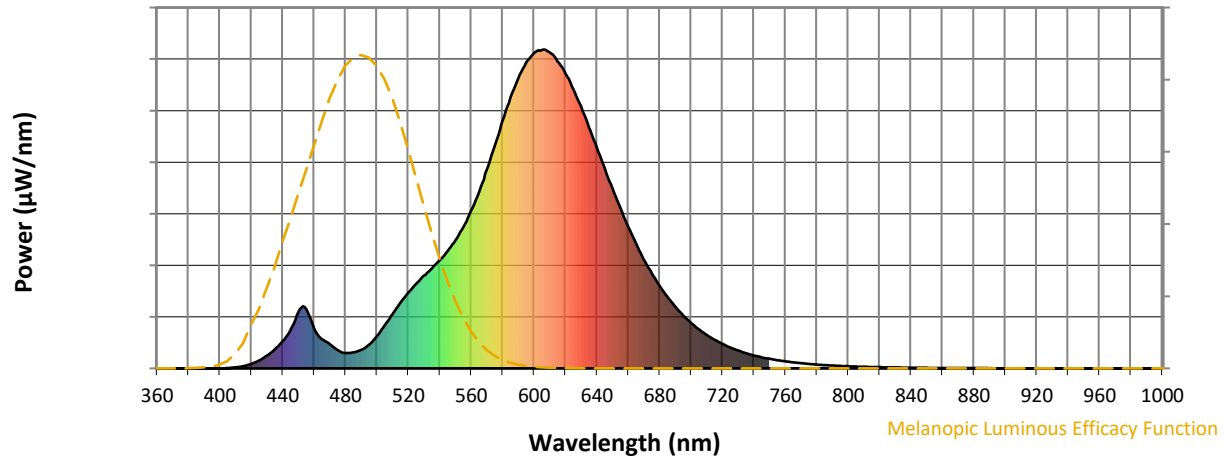
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

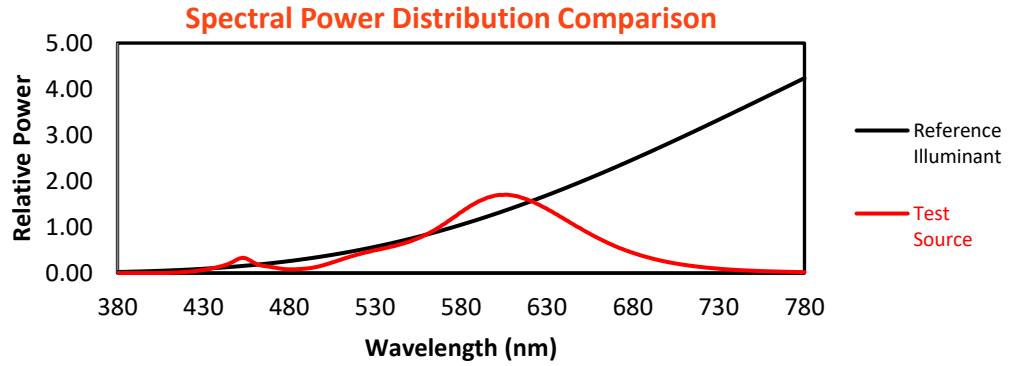
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR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

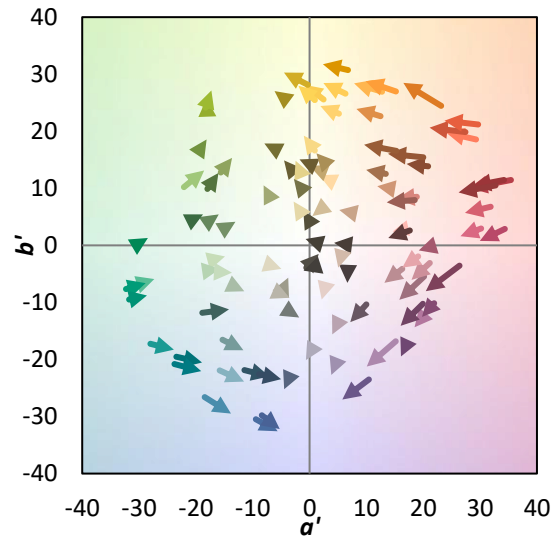
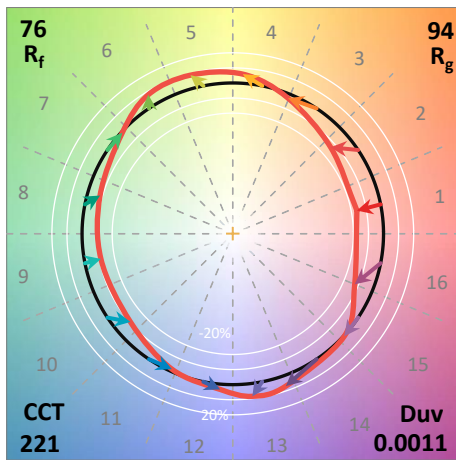
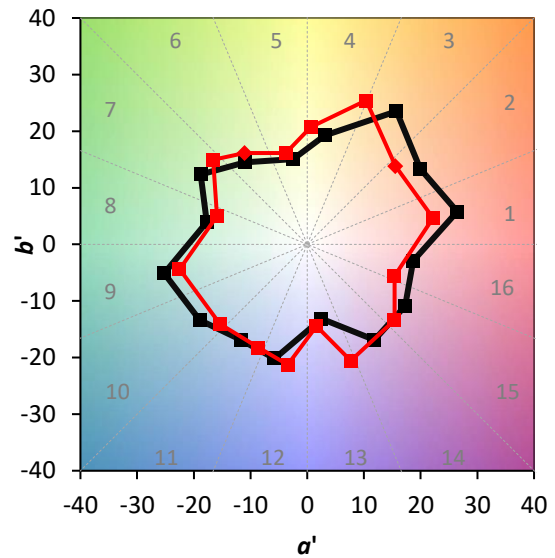
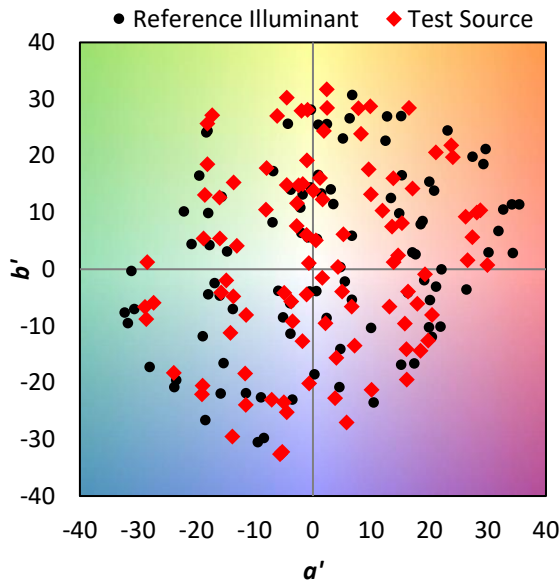
TM-30-18

Summary

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



Color Vector Graphics

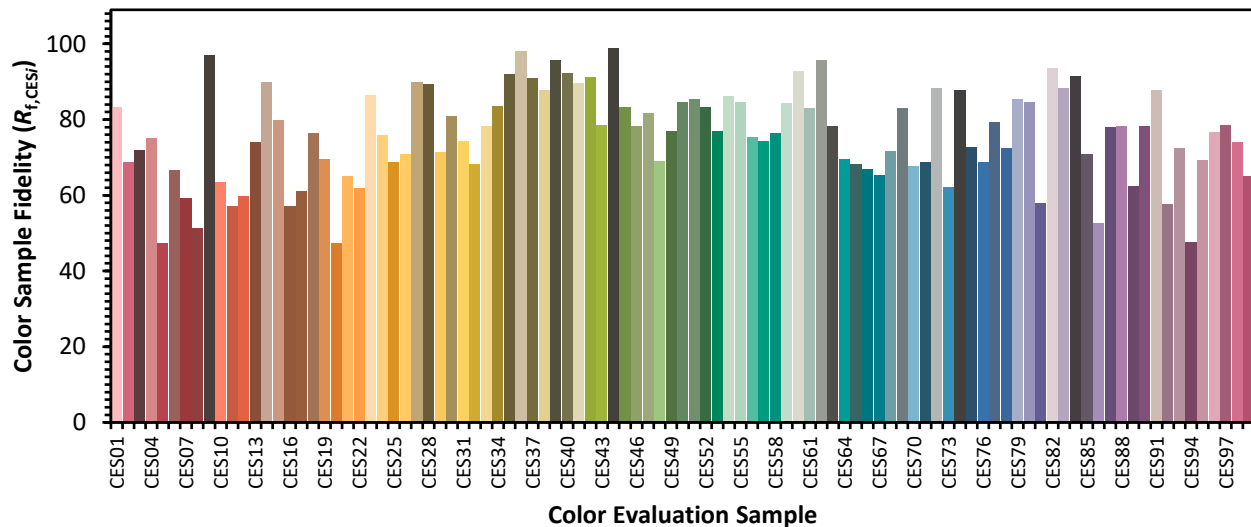


REPORT NUMBER: SP1-2406-133-2

TM-30-18

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

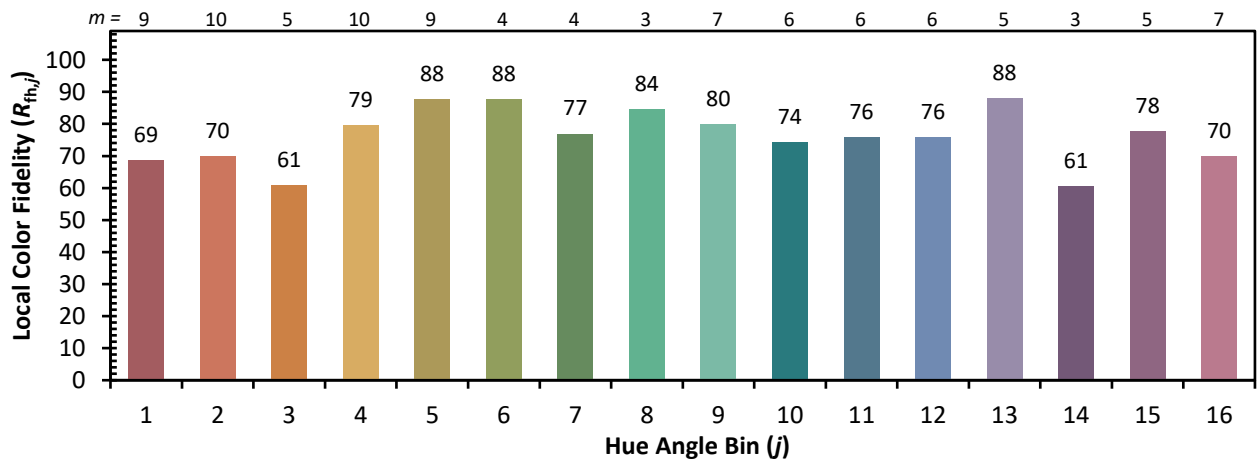
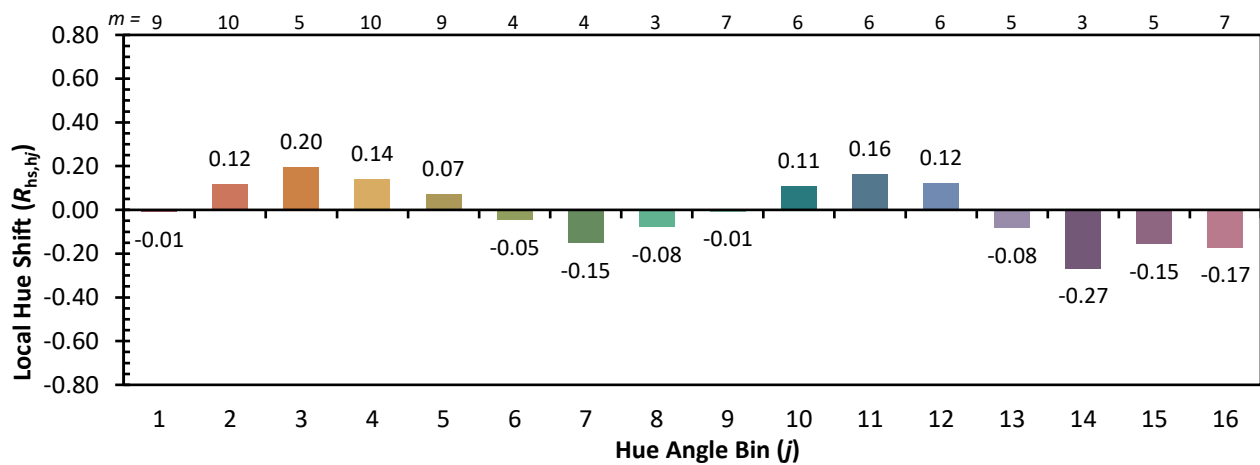
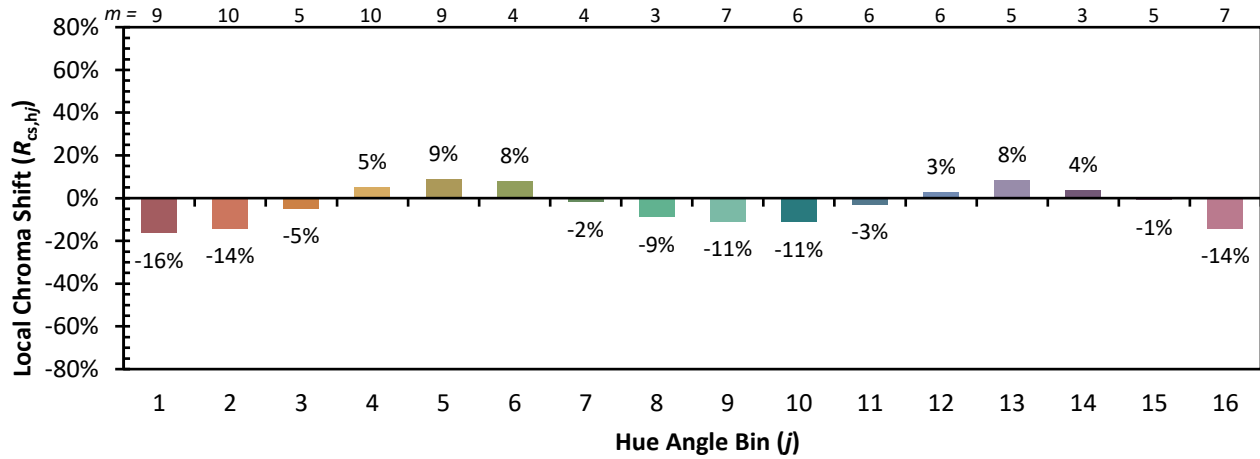
CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82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



REPORT NUMBER: SP1-2406-133-2

TM-30-18

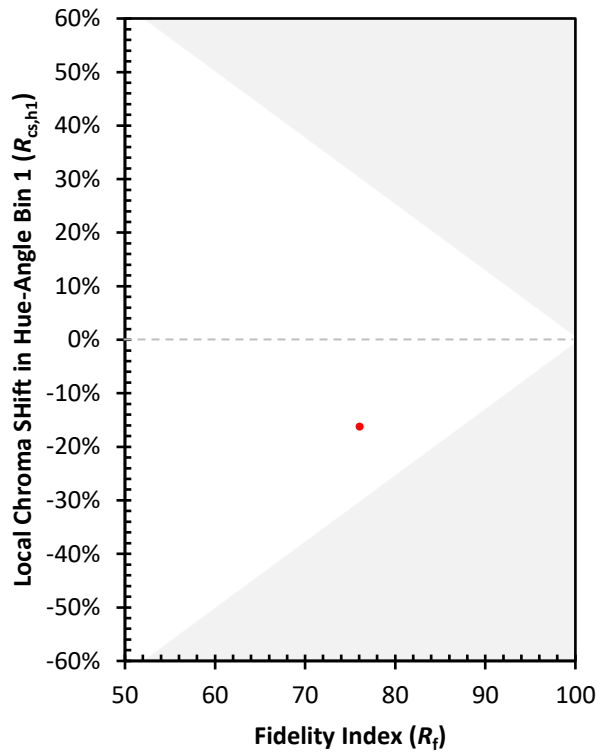
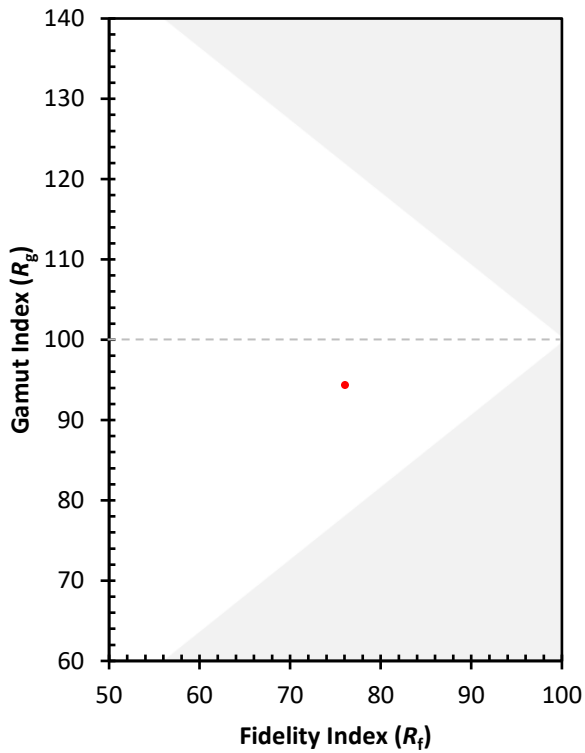
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)