

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: P856219

Luminaire Tested: **FFX-CLB-90-740-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856219
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-740-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

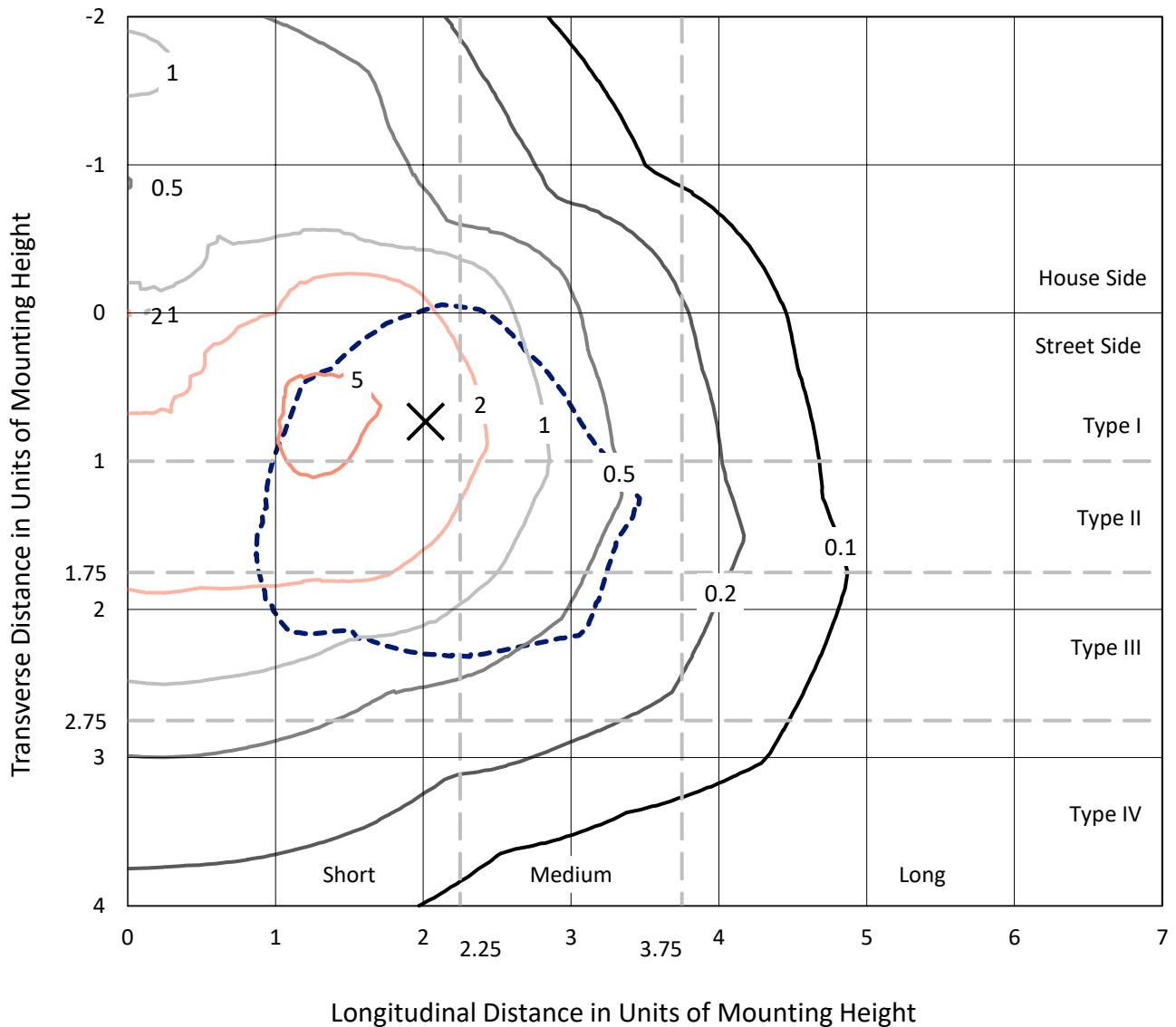
Lumens per Lamp: N/A
Luminaire Lumens: 14173.8 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

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

REPORT NUMBER: P856219
 CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3-UPLR

Iso-Footcandle Lines of Horizontal Illumination

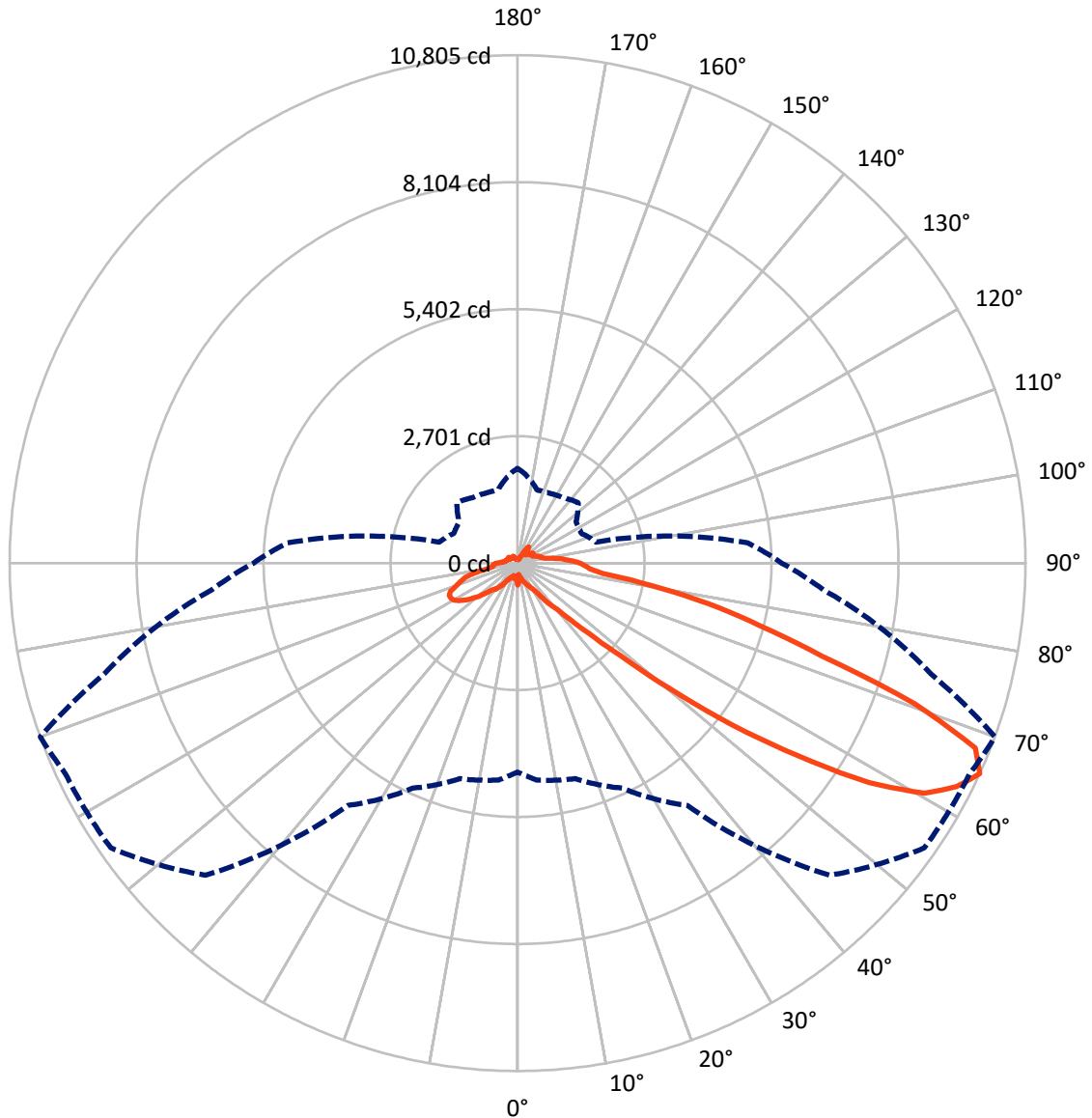
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P856219
CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

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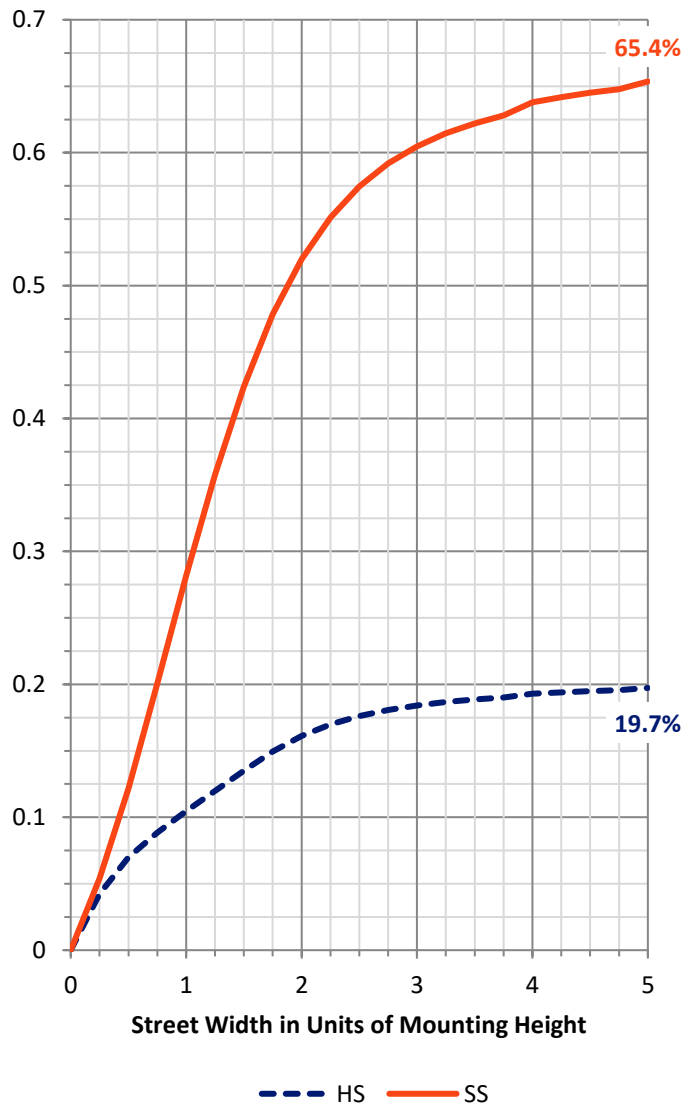
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2907.1	544.6	3451.7
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	9586.0	1136.2	10722.2
	% Fixture	67.6	8.0	75.6
Total	Lumens	12493.1	1680.7	14173.8
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	0.2
10°-20°	94.8	0.7
20°-30°	191.3	1.3
30°-40°	404.8	2.9
40°-50°	943.9	6.7
50°-60°	2812.9	19.8
60°-70°	4507.4	31.8
70°-80°	2589.4	18.3
80°-90°	918.3	6.5
90°-100°	541.6	3.8
100°-110°	327.2	2.3
110°-120°	246.0	1.7
120°-130°	208.4	1.5
130°-140°	138.3	1.0
140°-150°	129.9	0.9
150°-160°	57.6	0.4
160°-170°	23.8	0.2
170°-180°	7.9	0.1
0°-90°	12493.1	88.1
0°-180°	14173.8	100.0



REPORT NUMBER: P856219

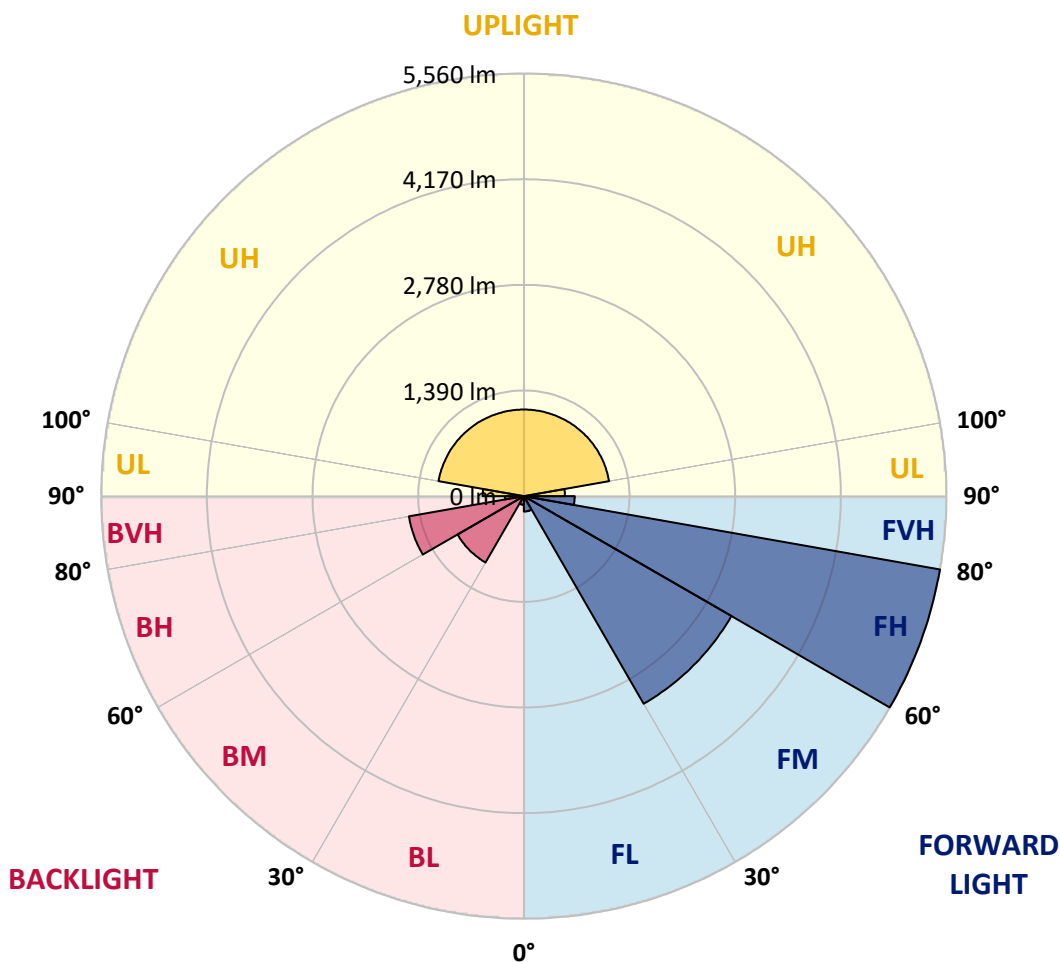
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.1	1.4			
FM (30°-60°)	3153.8	22.3			
FH (60°-80°)	5560.2	39.2			G3/7500
FVH (80°-90°)	669.0	4.7			G4/750
BL (0°-30°)	113.3	0.8	B1/500		
BM (30°-60°)	1007.9	7.1	B2/2500		
BH (60°-80°)	1536.6	10.8	B3/2500		G3/2500
BVH (80°-90°)	249.4	1.8			G3/500
UL (90°-100°)	541.6	3.8		U4/1000	
UH (100°-180°)	1139.1	8.0		U5	

BUG Rating: B3-U5-G4

Type III Short





REPORT NUMBER: P856219

CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	392.1	389.1	396.6	402.6	410.1	399.6	381.5	399.6	405.6	423.6	437.1
5°	333.5	335.0	342.5	359.0	374.0	371.0	324.5	264.4	246.3	238.8	240.3
7.5°	330.5	329.0	324.5	323.0	332.0	365.0	360.5	316.9	283.9	255.4	226.8
10°	348.5	353.0	357.5	357.5	351.5	330.5	329.0	326.0	313.9	300.4	282.4
12.5°	431.1	437.1	441.6	426.6	407.1	386.0	369.5	342.5	330.5	323.0	309.4
15°	521.2	527.2	519.7	491.2	456.6	417.6	402.6	404.1	387.5	368.0	339.5
17.5°	569.3	566.3	534.8	501.7	474.7	444.6	423.6	410.1	404.1	396.6	368.0
20°	539.3	531.8	512.2	498.7	495.7	479.2	465.7	453.6	446.1	429.6	395.1
22.5°	516.7	516.7	513.7	510.7	528.7	521.2	515.2	498.7	488.2	467.2	416.1
25°	545.3	545.3	546.8	542.3	566.3	566.3	566.3	548.3	534.8	504.7	443.1
27.5°	585.8	584.3	588.8	585.8	606.9	611.4	620.4	606.9	587.3	551.3	473.2
30°	629.4	629.4	633.9	636.9	657.9	668.4	679.0	673.0	648.9	605.4	524.2
32.5°	676.0	674.5	688.0	703.0	715.0	734.5	739.0	754.1	730.0	679.0	599.3
35°	743.6	748.1	784.1	815.7	850.2	862.2	883.2	941.8	917.8	848.7	757.1
37.5°	1075.5	1053.0	1044.0	1007.9	1003.4	1074.0	1099.6	1155.1	1107.1	1013.9	874.2
40°	1140.1	1113.1	1101.1	1066.5	1078.5	1224.2	1198.7	1398.5	1281.3	1132.6	1042.5
42.5°	1074.0	1069.5	1210.7	1237.8	1222.7	1454.1	1404.5	1774.0	1649.3	1303.8	1203.2
45°	1296.3	1284.3	1344.4	1392.5	1430.0	1846.1	1816.1	2205.1	2151.0	1587.7	1488.6
47.5°	1463.1	1451.1	1520.1	1680.9	1900.2	2350.8	2526.6	3113.9	2930.6	2184.1	1958.8
50°	1961.8	1954.3	2140.5	2313.3	2675.3	3340.7	3822.9	4456.8	4187.9	3050.8	2636.2
52.5°	2433.4	2457.5	2675.3	3007.3	3390.3	4592.0	5280.0	5724.6	5721.6	3973.1	3384.3
55°	2771.4	2852.5	3109.4	3708.7	4240.5	5702.1	6630.4	6959.3	7235.7	5301.0	4121.8
57.5°	3427.8	3569.0	3815.4	4408.7	5095.2	7045.0	8369.8	8315.8	8813.0	6678.4	4924.0
60°	4102.3	4267.5	4350.2	4895.4	5796.7	8338.3	9565.5	9439.4	9939.6	7877.1	5768.2
62.5°	4312.6	4474.8	4555.9	5149.3	6302.9	9071.3	10116.8	10166.4	10477.3	8731.8	6268.4
65°	4444.8	4631.0	4748.2	5283.0	6292.4	9391.3	10562.9	10609.5	10804.8	9099.9	6526.7
67.5°	4420.8	4629.5	4779.8	5258.9	5943.9	9125.4	10451.8	10241.5	10502.9	8837.0	6254.8
70°	3943.1	4124.8	4275.0	4644.6	4961.5	7687.9	9042.8	8695.8	8966.2	7382.9	5164.3
72.5°	3222.1	3297.2	3427.8	3602.1	3759.8	5703.6	6897.8	6600.3	6756.6	5538.3	3869.5
75°	2646.7	2631.7	2748.9	2875.1	2825.5	4166.9	5457.2	5185.3	5331.0	4205.9	3086.9
77.5°	1961.8	1954.3	2124.0	2113.5	2038.4	2885.6	4326.1	4129.3	4148.9	3106.4	2311.8
80°	1179.2	1201.7	1366.9	1400.0	1311.4	1810.1	3088.4	2995.2	2855.5	2122.5	1620.8
82.5°	827.7	862.2	949.3	985.4	941.8	1321.9	2045.9	1981.3	1816.1	1539.7	1141.6
85°	844.2	850.2	860.7	863.7	844.2	1186.7	1587.7	1551.7	1541.2	1290.3	941.8
87.5°	844.2	857.7	866.7	865.2	830.7	1111.6	1464.6	1407.5	1421.0	1206.2	910.3
90°	757.1	781.1	779.6	784.1	755.6	1004.9	1327.9	1281.3	1299.3	1087.5	827.7
92.5°	618.9	635.4	651.9	683.5	641.4	854.7	1122.1	1078.5	1101.1	925.3	704.5
95°	575.3	590.3	600.8	617.4	575.3	760.1	992.9	940.3	949.3	785.6	596.3
97.5°	465.7	474.7	486.7	489.7	459.7	584.3	755.6	710.5	716.5	609.9	468.7
100°	390.6	398.1	408.6	408.6	389.1	483.7	597.8	573.8	570.8	498.7	396.6
102.5°	369.5	372.5	389.1	386.0	366.5	446.1	540.8	525.7	527.2	462.7	372.5
105°	363.5	363.5	380.0	372.5	356.0	425.1	506.2	501.7	500.2	440.1	357.5
107.5°	357.5	357.5	374.0	366.5	353.0	401.1	476.2	461.2	459.7	419.1	338.0
110°	333.5	338.0	356.0	347.0	336.5	378.5	437.1	426.6	426.6	395.1	323.0



REPORT NUMBER: P856219

CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	295.9	298.9	315.4	307.9	300.4	336.5	387.5	374.0	375.5	354.5	301.9
115°	276.4	280.9	297.4	286.9	280.9	313.9	359.0	350.0	353.0	333.5	285.4
117.5°	277.9	279.4	291.4	292.9	280.9	307.9	332.0	335.0	339.5	327.5	289.9
120°	338.0	330.5	336.5	329.0	323.0	354.5	383.0	386.0	384.5	362.0	288.4
122.5°	341.0	326.0	342.5	332.0	326.0	360.5	392.1	399.6	392.1	372.5	294.4
125°	271.9	276.4	277.9	280.9	286.9	324.5	341.0	342.5	344.0	338.0	285.4
127.5°	238.8	237.3	229.8	231.3	244.8	277.9	289.9	298.9	292.9	289.9	256.9
130°	228.3	231.3	229.8	229.8	237.3	262.9	271.9	285.4	280.9	274.9	234.3
132.5°	210.3	213.3	226.8	243.3	240.3	249.4	252.4	265.9	267.4	267.4	235.8
135°	199.8	202.8	213.3	234.3	228.3	232.8	231.3	243.3	244.8	246.3	222.3
137.5°	204.3	205.8	199.8	202.8	207.3	226.8	232.8	244.8	244.8	238.8	207.3
140°	214.8	214.8	201.3	196.8	205.8	235.8	247.9	267.4	264.4	253.9	214.8
142.5°	198.3	201.3	208.8	217.8	237.3	320.0	320.0	357.5	369.5	372.5	259.9
145°	258.4	259.9	262.9	267.4	304.9	419.1	381.5	408.6	419.1	429.6	312.4
147.5°	297.4	300.4	297.4	285.4	320.0	359.0	341.0	353.0	365.0	368.0	313.9
150°	232.8	229.8	228.3	226.8	264.4	276.4	261.4	259.9	268.9	276.4	243.3
152.5°	169.7	168.2	166.7	165.2	198.3	190.8	180.3	180.3	183.3	184.8	171.2
155°	150.2	148.7	145.7	147.2	168.2	160.7	151.7	148.7	151.7	150.2	142.7
157.5°	123.2	120.2	120.2	126.2	136.7	127.7	121.7	117.2	118.7	117.2	118.7
160°	102.1	100.6	102.1	109.7	115.7	108.2	102.1	99.1	99.1	102.1	108.2
162.5°	91.6	90.1	91.6	94.6	97.6	90.1	85.6	85.6	87.1	93.1	105.1
165°	79.6	79.6	81.1	82.6	84.1	79.6	78.1	78.1	81.1	90.1	103.6
167.5°	76.6	76.6	76.6	76.6	76.6	75.1	73.6	78.1	81.1	85.6	94.6
170°	75.1	73.6	75.1	75.1	75.1	75.1	75.1	79.6	79.6	81.1	85.6
172.5°	76.6	76.6	76.6	78.1	81.1	82.6	81.1	84.1	82.6	82.6	82.6
175°	78.1	78.1	79.6	81.1	82.6	84.1	85.6	85.6	85.6	87.1	87.1
177.5°	78.1	78.1	79.6	81.1	82.6	79.6	76.6	75.1	73.6	73.6	73.6
180°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	425.1	387.5	335.0	357.5	426.6	413.1	344.0	301.9	304.9	335.0	338.0
5°	247.9	255.4	289.9	362.0	375.5	310.9	250.9	241.8	291.4	360.5	374.0
7.5°	223.8	223.8	252.4	351.5	395.1	324.5	244.8	220.8	258.4	315.4	324.5
10°	270.4	261.4	264.4	300.4	316.9	259.9	219.3	208.8	229.8	237.3	234.3
12.5°	304.9	310.9	339.5	332.0	259.9	211.8	198.3	196.8	208.8	216.3	214.8
15°	327.5	316.9	295.9	271.9	247.9	220.8	201.3	189.3	175.7	169.7	169.7
17.5°	348.5	327.5	289.9	267.4	243.3	223.8	205.8	187.8	181.8	183.3	183.3
20°	374.0	348.5	313.9	288.4	259.9	232.8	210.3	190.8	186.3	187.8	186.3
22.5°	393.6	371.0	335.0	301.9	271.9	241.8	219.3	199.8	193.8	192.3	192.3
25°	417.6	398.1	360.5	320.0	283.9	255.4	235.8	213.3	202.8	199.8	199.8
27.5°	449.1	432.6	390.6	347.0	304.9	271.9	250.9	226.8	211.8	205.8	204.3
30°	497.2	474.7	428.1	374.0	330.5	295.9	270.4	240.3	222.3	211.8	210.3
32.5°	569.3	540.8	479.2	411.6	359.0	323.0	291.4	253.9	231.3	219.3	217.8
35°	722.5	691.0	612.9	518.2	441.6	368.0	318.5	268.9	240.3	225.3	223.8
37.5°	818.7	761.6	666.9	581.3	488.2	444.6	381.5	315.4	252.4	232.8	229.8
40°	958.4	884.8	766.1	650.4	486.7	485.2	443.1	384.5	297.4	246.3	241.8
42.5°	1062.0	967.4	818.7	689.5	491.2	504.7	468.7	417.6	353.0	286.9	279.4
45°	1273.8	1153.6	917.8	724.0	497.2	527.2	491.2	437.1	380.0	333.5	329.0
47.5°	1670.4	1503.6	1110.1	790.1	564.8	602.4	537.8	474.7	419.1	372.5	362.0
50°	2224.6	2024.9	1342.9	848.7	680.5	766.1	660.9	564.8	498.7	462.7	452.1
52.5°	2875.1	2651.2	1488.6	940.3	820.2	967.4	851.7	739.0	651.9	657.9	651.9
55°	3600.6	3336.2	1616.3	1078.5	998.9	1191.2	1065.0	967.4	920.8	1051.5	1059.0
57.5°	4300.6	4018.2	1695.9	1224.2	1198.7	1449.6	1302.3	1233.2	1251.3	1634.3	1724.4
60°	4969.0	4522.9	1757.5	1360.9	1366.9	1652.3	1539.7	1526.2	1581.7	2072.9	2209.6
62.5°	5355.1	4781.3	1754.5	1449.6	1472.1	1777.0	1677.9	1685.4	1727.4	2145.0	2259.2
65°	5617.9	4911.9	1724.4	1494.6	1517.1	1822.1	1694.4	1635.8	1608.8	1894.2	2015.9
67.5°	5460.2	4659.6	1652.3	1455.6	1485.6	1750.0	1590.7	1443.5	1397.0	1551.7	1623.8
70°	4616.0	3893.5	1472.1	1323.4	1342.9	1476.6	1341.4	1180.7	1134.1	1215.2	1248.3
72.5°	3487.9	2989.2	1320.4	1222.7	1176.2	1221.2	1089.0	920.8	910.3	953.8	959.9
75°	2786.4	2346.3	1203.2	1102.6	977.9	1024.4	865.2	685.0	671.4	674.5	659.4
77.5°	2100.0	1745.5	1012.4	868.2	740.5	817.2	642.9	473.2	450.6	441.6	425.1
80°	1437.5	1212.2	688.0	581.3	525.7	599.3	458.1	347.0	345.5	342.5	324.5
82.5°	1019.9	935.8	561.8	494.2	446.1	471.7	398.1	324.5	316.9	318.5	298.9
85°	892.3	847.2	542.3	500.2	453.6	452.1	380.0	303.4	300.4	301.9	283.9
87.5°	853.2	803.6	530.2	477.7	432.6	410.1	335.0	267.4	274.9	279.4	262.9
90°	764.6	713.5	480.7	426.6	383.0	344.0	283.9	241.8	253.9	256.9	241.8
92.5°	644.4	591.8	374.0	342.5	321.5	315.4	265.9	229.8	238.8	240.3	228.3
95°	545.3	497.2	326.0	301.9	286.9	285.4	240.3	208.8	213.3	211.8	201.3
97.5°	438.6	404.1	285.4	262.9	246.3	237.3	205.8	181.8	187.8	190.8	183.3
100°	374.0	354.5	265.9	246.3	226.8	214.8	187.8	168.2	174.2	180.3	174.2
102.5°	351.5	336.5	261.4	240.3	219.3	204.3	178.8	157.7	160.7	168.2	163.7
105°	333.5	320.0	253.9	231.3	211.8	195.3	174.2	148.7	147.2	154.7	153.2
107.5°	313.9	301.9	249.4	222.3	201.3	186.3	166.7	142.7	136.7	141.2	139.7
110°	303.4	291.4	240.3	211.8	189.3	175.7	157.7	138.2	130.7	132.2	132.2



REPORT NUMBER: P856219

CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	282.4	268.9	220.8	193.8	175.7	163.7	145.7	132.2	123.2	126.2	127.7
115°	268.9	250.9	202.8	183.3	163.7	153.2	142.7	130.7	120.2	120.2	121.7
117.5°	277.9	243.3	189.3	174.2	163.7	160.7	157.7	139.7	118.7	117.2	117.2
120°	265.9	244.8	205.8	201.3	190.8	181.8	162.2	138.2	115.7	112.7	112.7
122.5°	259.9	255.4	232.8	217.8	198.3	180.3	151.7	126.2	111.2	108.2	108.2
125°	256.9	252.4	225.3	196.8	171.2	153.2	135.2	118.7	109.7	105.1	105.1
127.5°	235.8	214.8	181.8	165.2	148.7	141.2	126.2	115.7	105.1	99.1	99.1
130°	217.8	198.3	169.7	151.7	138.2	132.2	121.7	111.2	100.6	94.6	93.1
132.5°	214.8	195.3	165.2	142.7	130.7	124.7	118.7	106.7	94.6	88.6	87.1
135°	199.8	177.3	147.2	135.2	127.7	123.2	118.7	103.6	91.6	85.6	85.6
137.5°	184.8	162.2	139.7	133.7	127.7	123.2	109.7	94.6	85.6	81.1	81.1
140°	186.3	160.7	142.7	138.2	129.2	115.7	103.6	93.1	85.6	79.6	78.1
142.5°	198.3	166.7	144.2	130.7	124.7	117.2	112.7	100.6	85.6	75.1	72.1
145°	217.8	180.3	162.2	156.2	145.7	132.2	115.7	93.1	78.1	69.1	67.6
147.5°	240.3	202.8	181.8	165.2	144.2	121.7	99.1	81.1	69.1	66.1	64.6
150°	208.8	172.7	156.2	133.7	115.7	97.6	81.1	72.1	66.1	64.6	64.6
152.5°	157.7	129.2	115.7	105.1	94.6	85.6	76.6	70.6	66.1	63.1	63.1
155°	136.7	121.7	108.2	97.6	87.1	78.1	70.6	67.6	63.1	63.1	61.6
157.5°	120.2	112.7	94.6	85.6	78.1	73.6	70.6	66.1	64.6	63.1	63.1
160°	109.7	105.1	87.1	79.6	75.1	72.1	72.1	69.1	64.6	63.1	63.1
162.5°	106.7	102.1	84.1	76.6	72.1	73.6	76.6	75.1	69.1	66.1	66.1
165°	105.1	102.1	85.6	75.1	72.1	73.6	81.1	82.6	75.1	70.6	69.1
167.5°	96.1	94.6	90.1	82.6	78.1	78.1	82.6	84.1	81.1	81.1	79.6
170°	87.1	87.1	88.6	90.1	87.1	82.6	79.6	79.6	84.1	88.6	90.1
172.5°	84.1	85.6	88.6	93.1	93.1	87.1	82.6	81.1	85.6	91.6	93.1
175°	88.6	90.1	91.6	91.6	88.6	87.1	85.6	84.1	87.1	93.1	94.6
177.5°	73.6	73.6	75.1	75.1	73.6	75.1	73.6	70.6	70.6	70.6	70.6
180°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

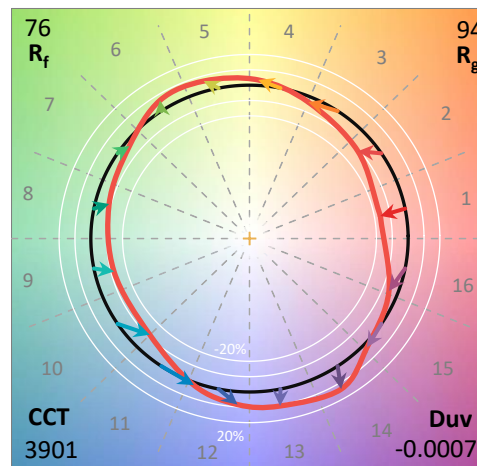
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 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-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 Rf: 76.2
 Rg: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

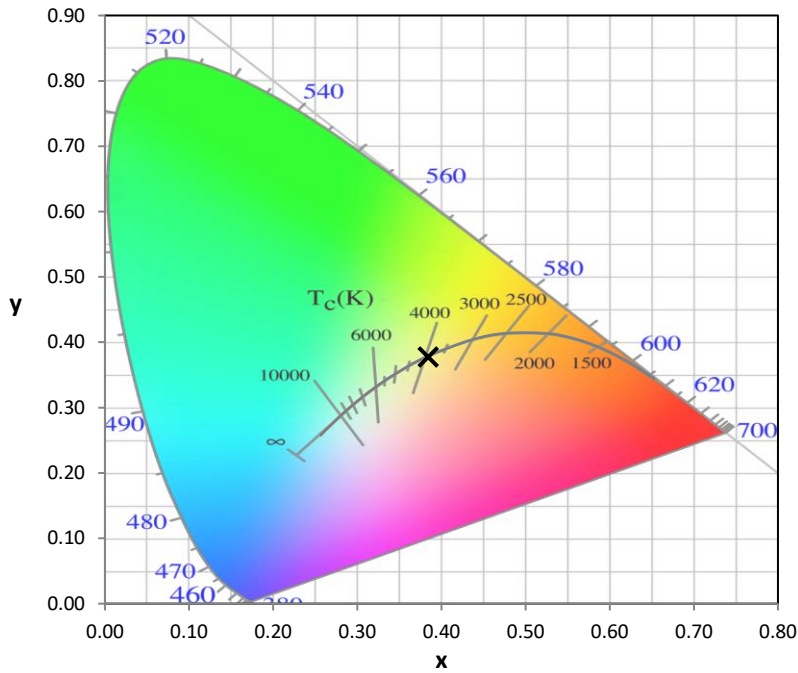
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

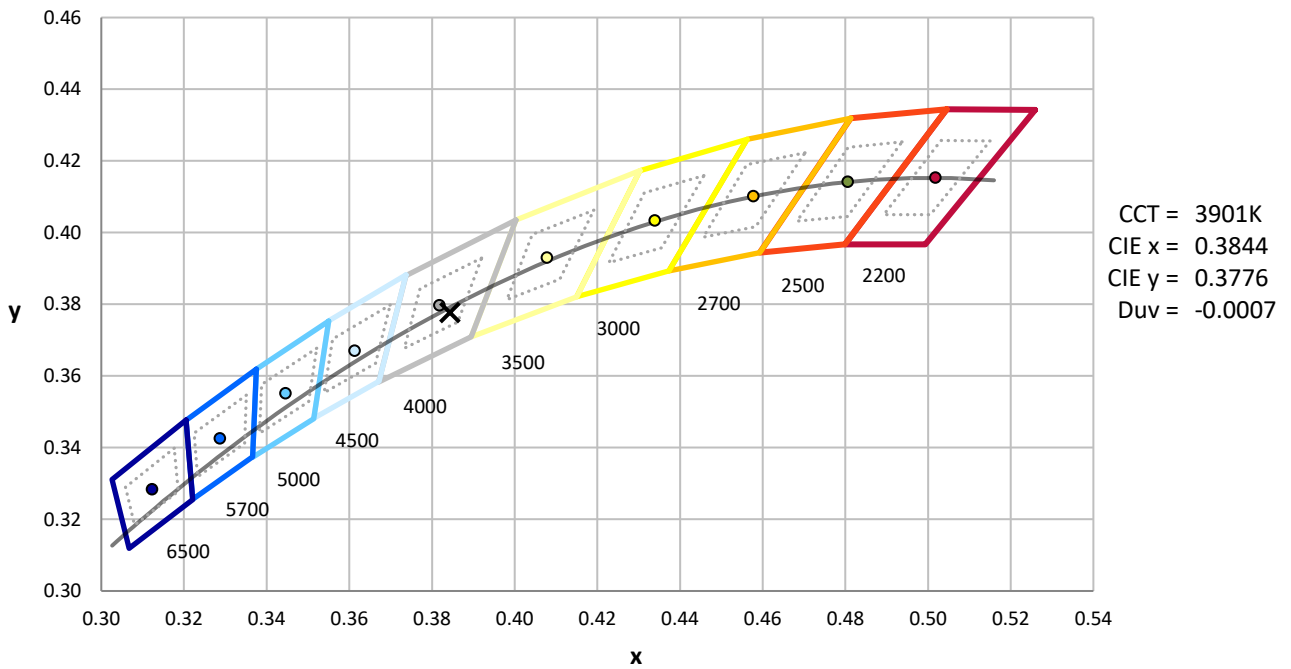
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-1

CIE 1931 Chromaticity Diagram



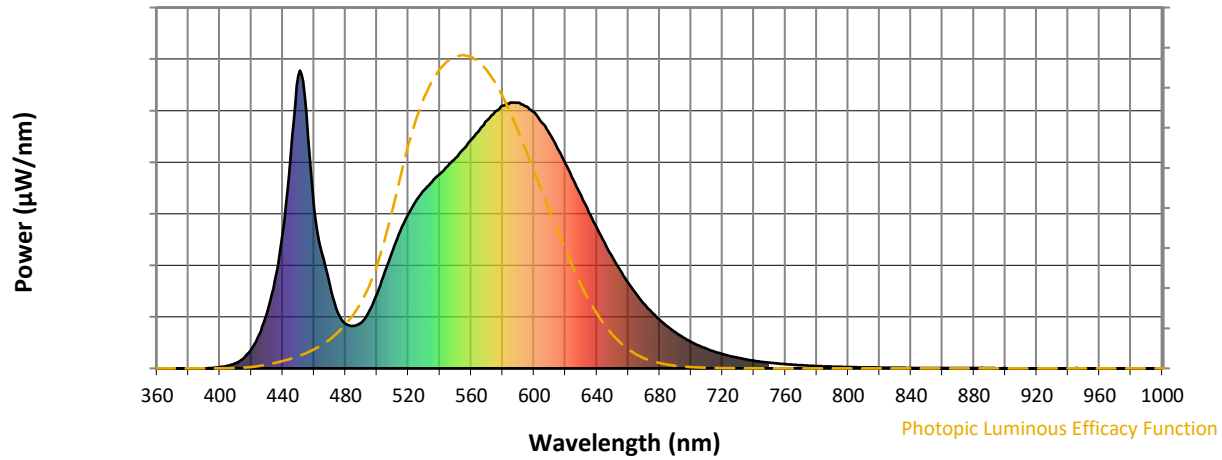
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-1

Photopic Flux vs. Wavelength

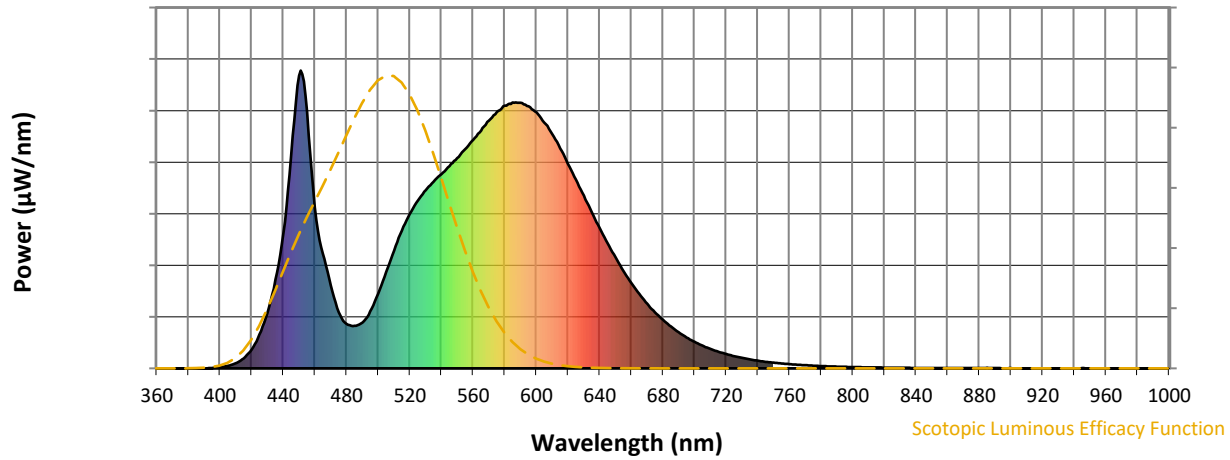


Photopic Lumens: NR

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

Scotopic Flux vs. Wavelength



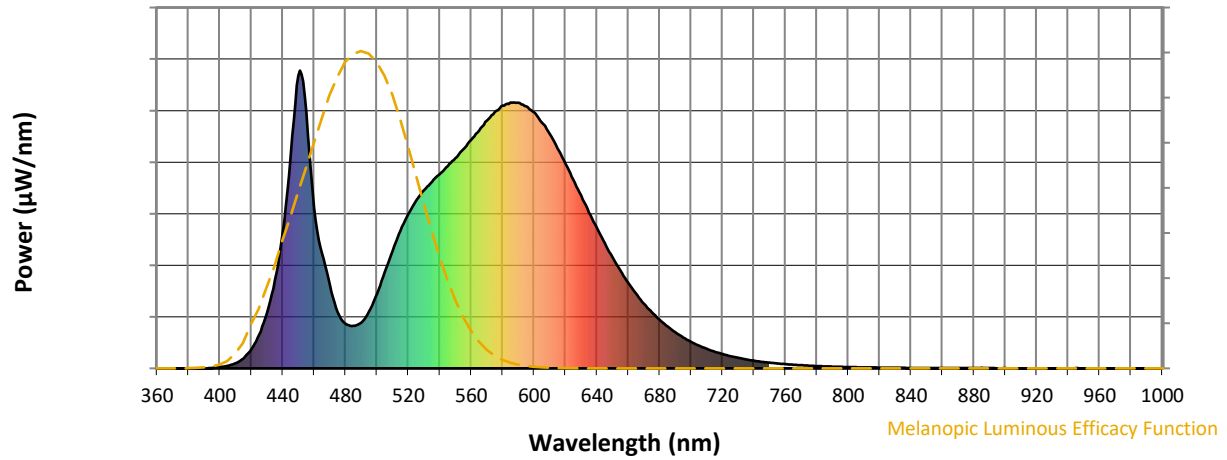
Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

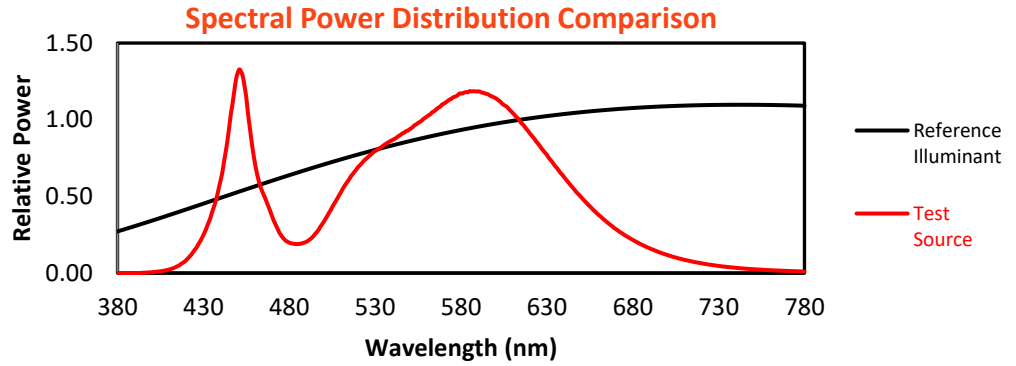
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

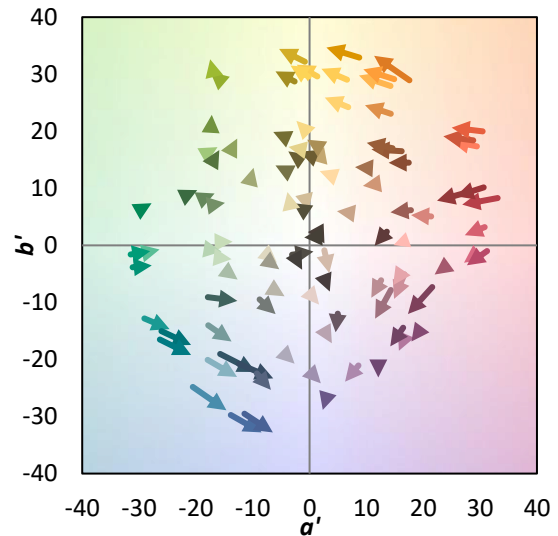
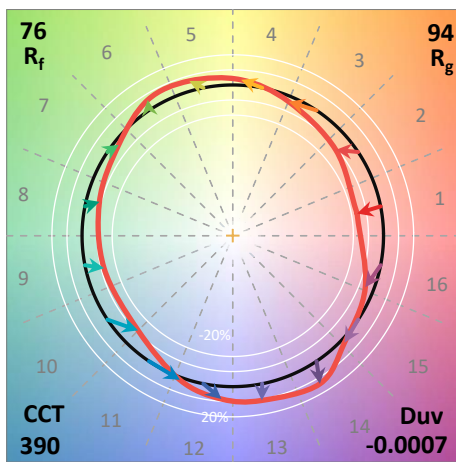
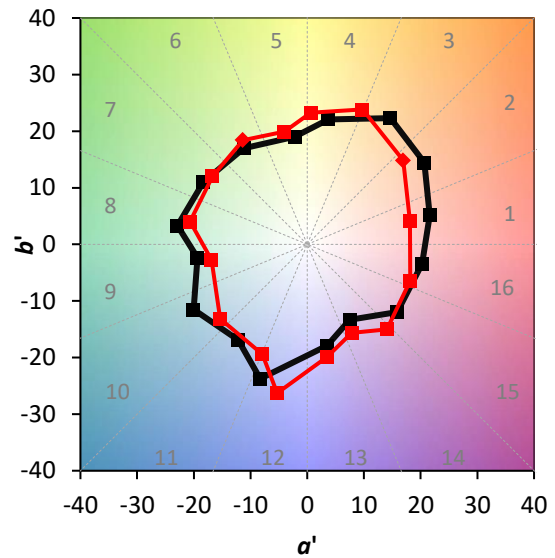
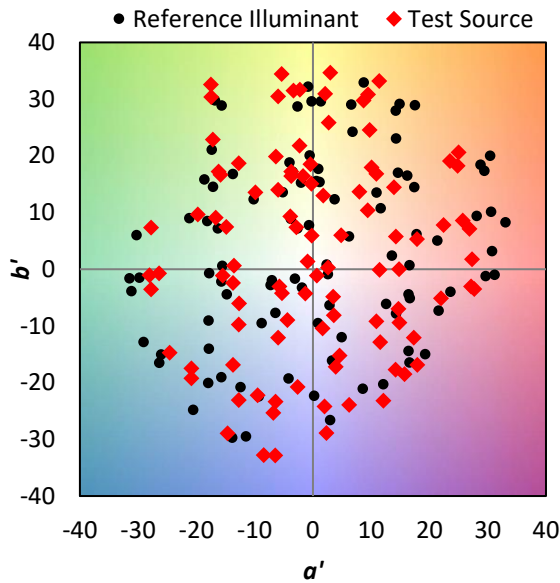
TM-30-18

Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_g = -23.4$



Color Vector Graphics

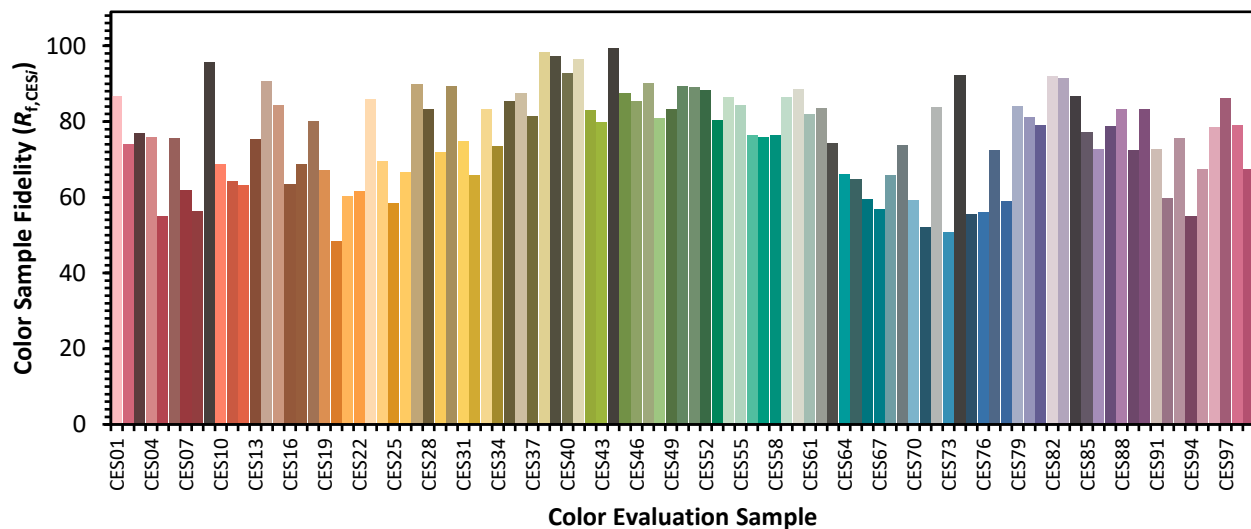


REPORT NUMBER: SP1-2406-133-1

TM-30-18

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

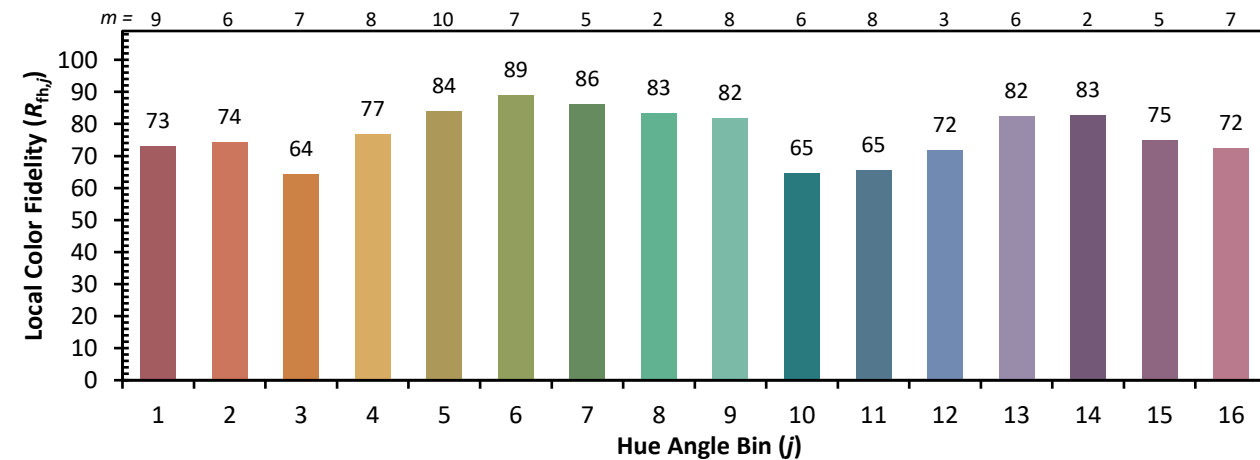
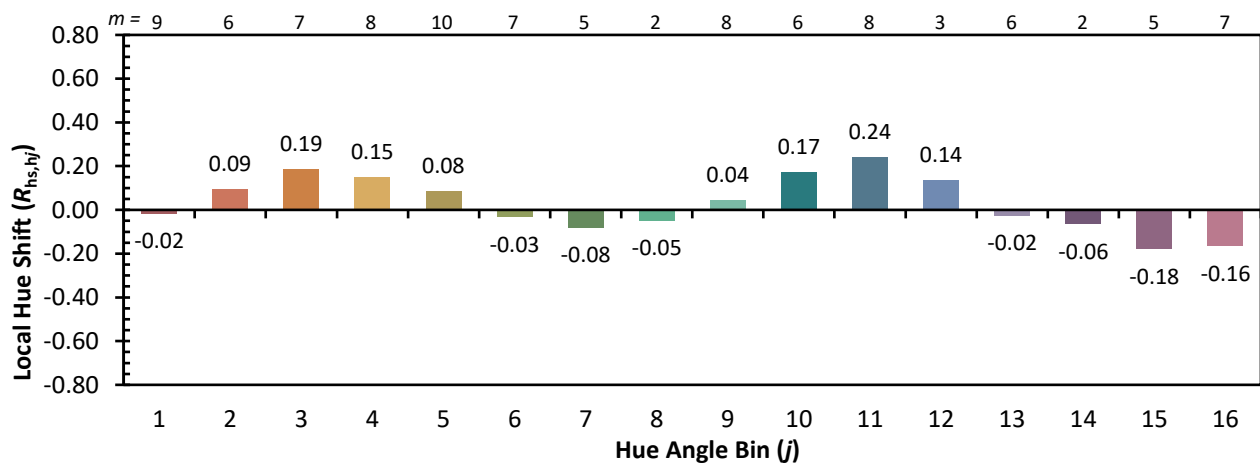
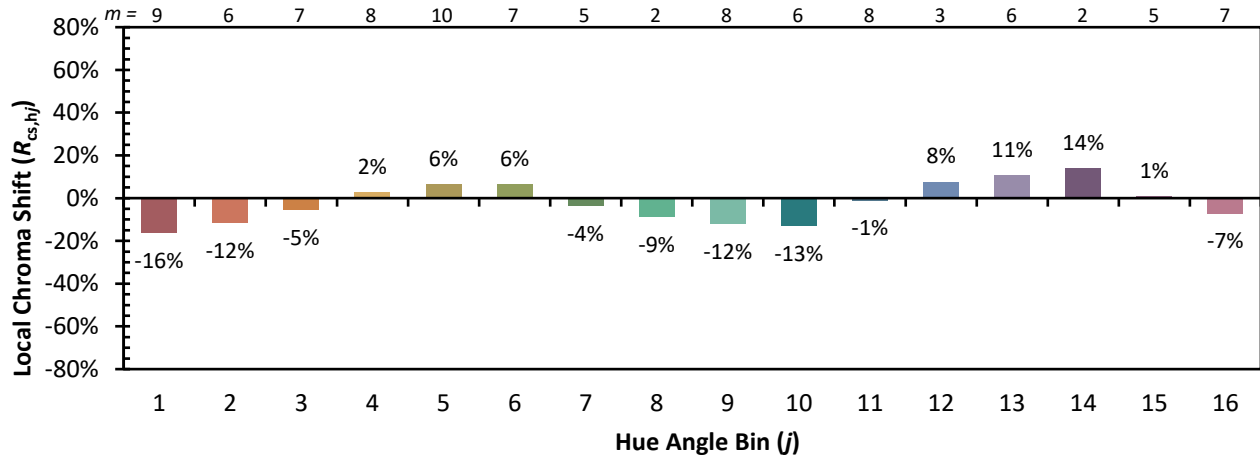
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



REPORT NUMBER: SP1-2406-133-1

TM-30-18

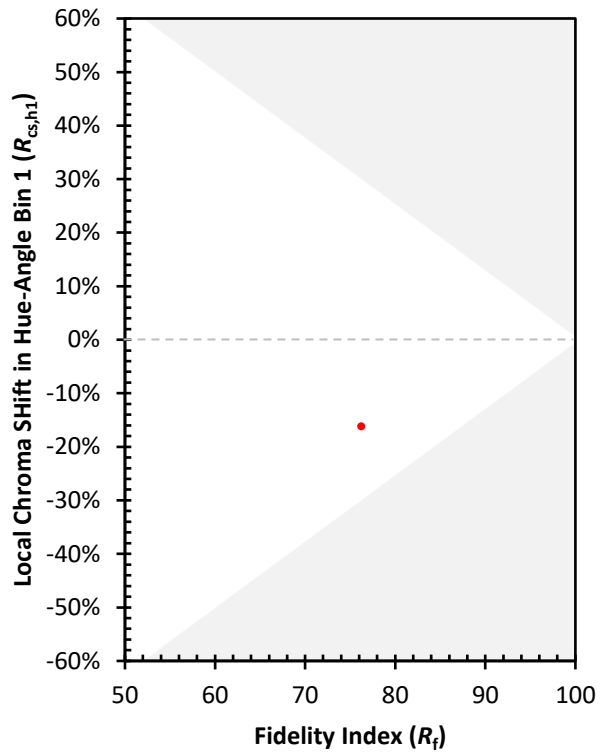
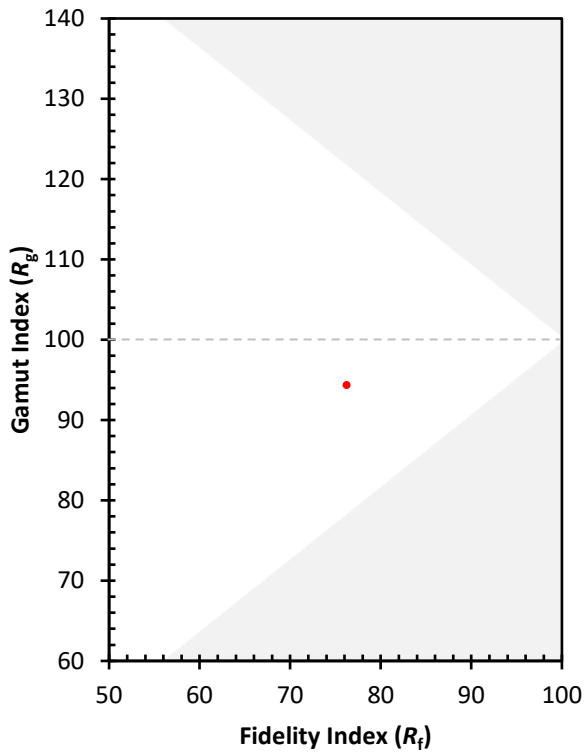
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)