

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: P856209

Luminaire Tested: **FFX-CLB-100-730-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856209  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-100-730-U-FR-T3-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (4) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

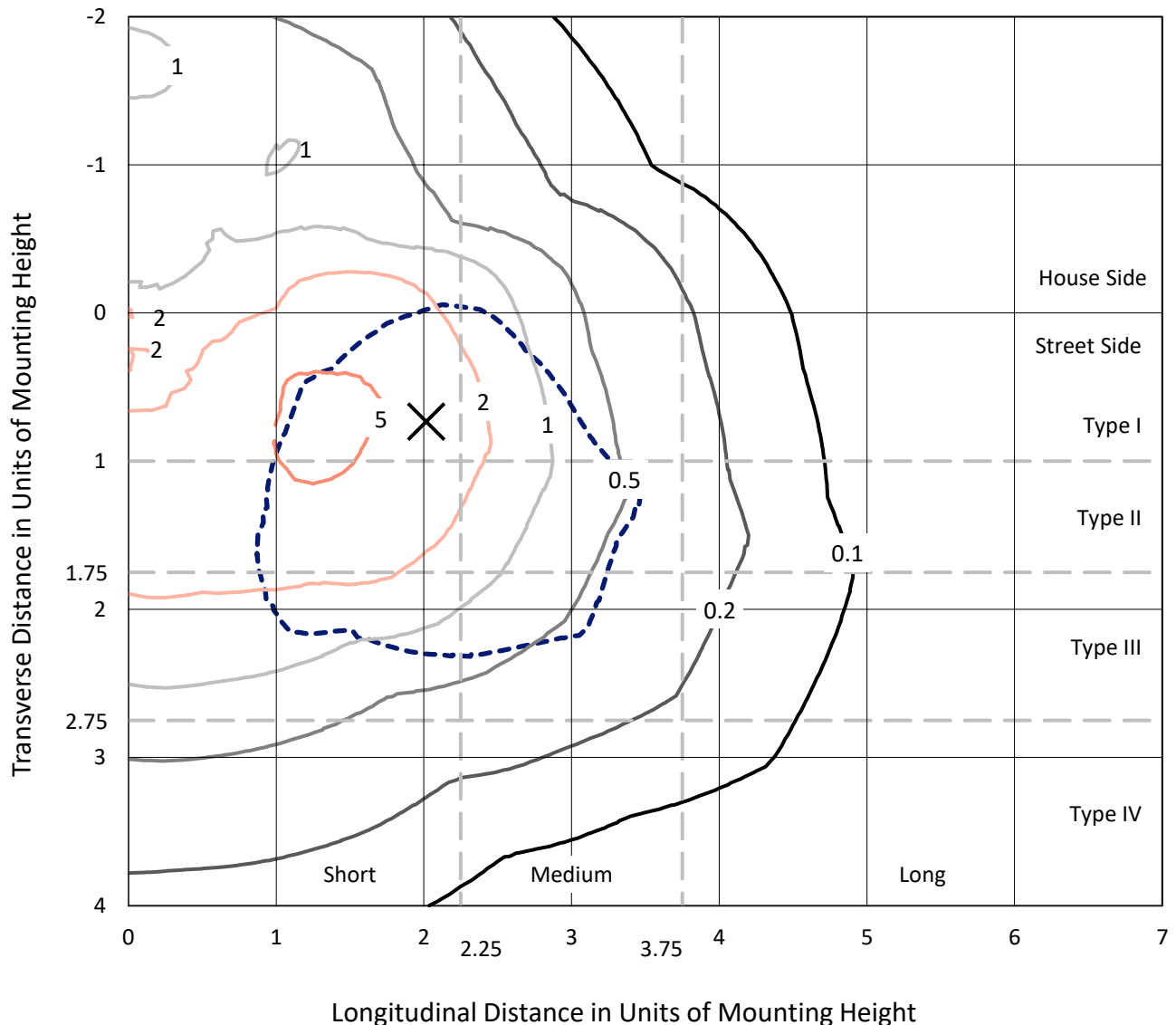
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14642 lumens  
Efficiency: N/A  
Efficacy: 151.9 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

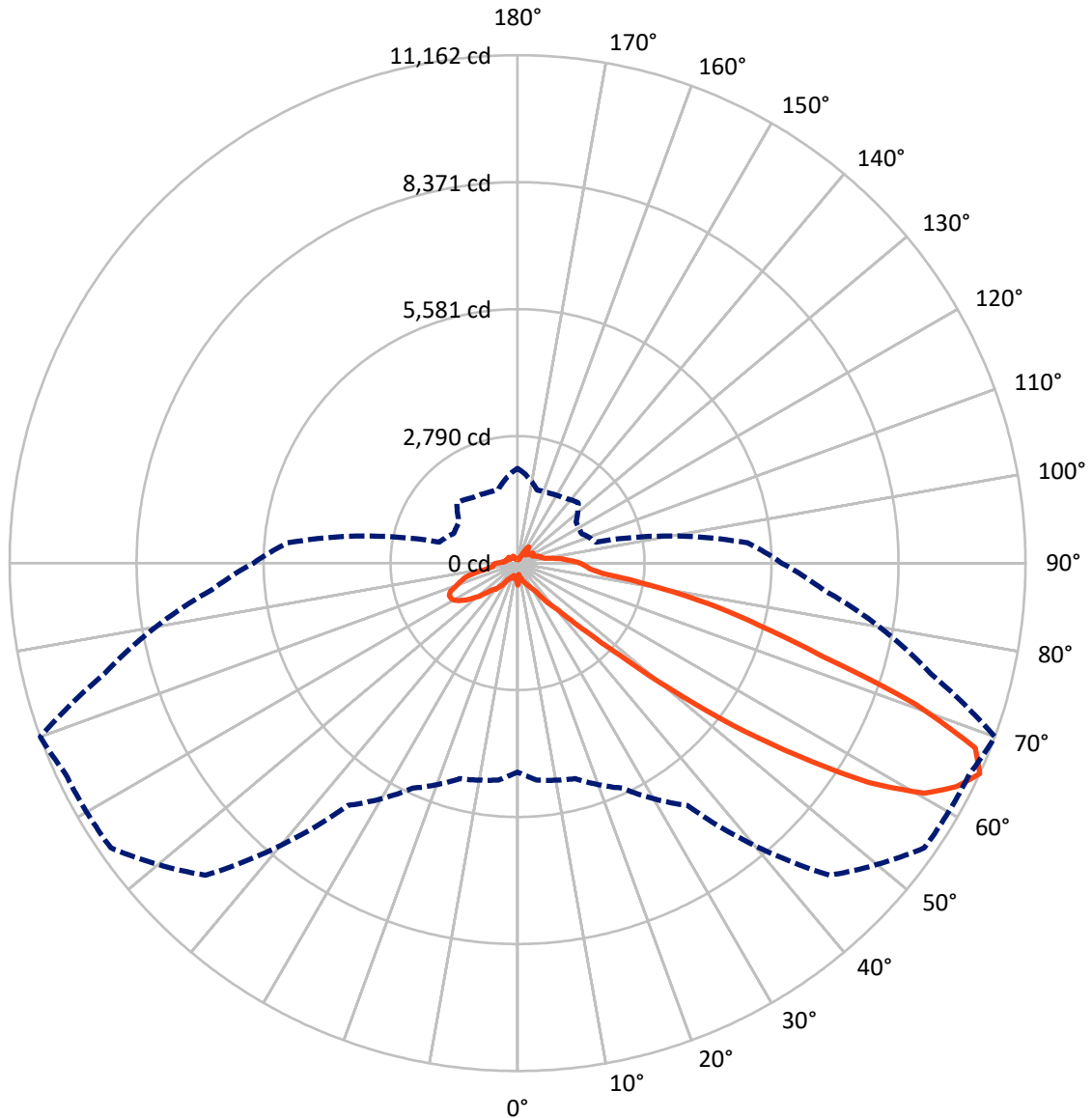
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 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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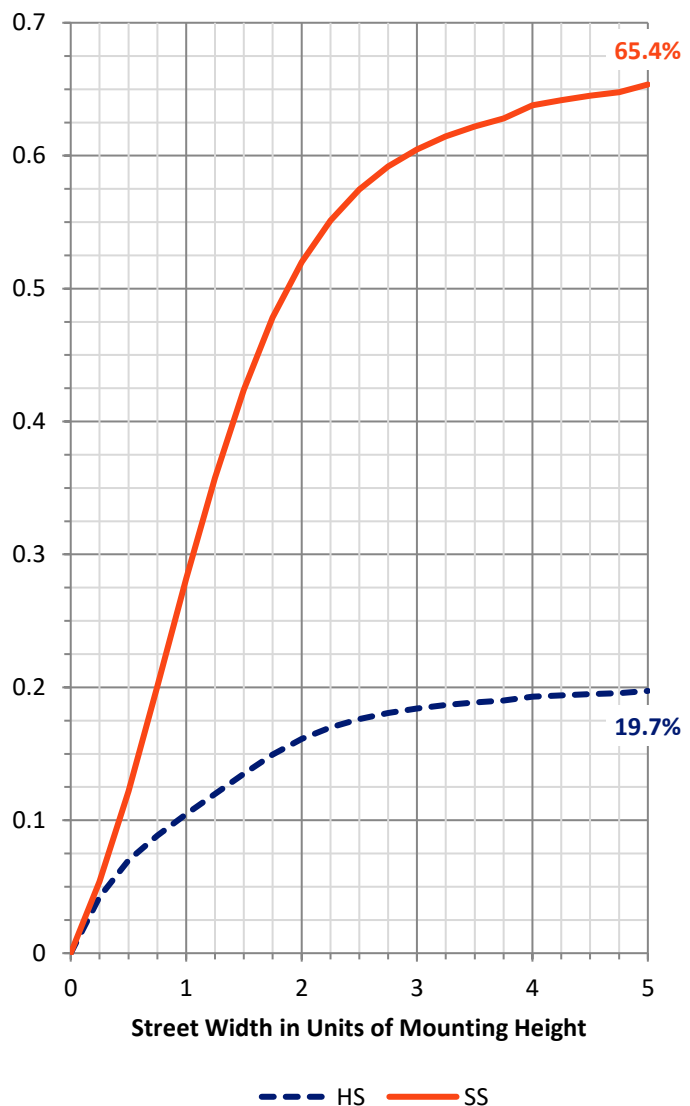
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3003.1	562.6	3565.7
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	9902.6	1173.7	11076.3
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	12905.7	1736.3	14642.0
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.3	0.2
10°-20°	97.9	0.7
20°-30°	197.6	1.3
30°-40°	418.2	2.9
40°-50°	975.1	6.7
50°-60°	2905.9	19.8
60°-70°	4656.3	31.8
70°-80°	2674.9	18.3
80°-90°	948.7	6.5
90°-100°	559.5	3.8
100°-110°	338.0	2.3
110°-120°	254.1	1.7
120°-130°	215.2	1.5
130°-140°	142.9	1.0
140°-150°	134.2	0.9
150°-160°	59.5	0.4
160°-170°	24.6	0.2
170°-180°	8.1	0.1
0°-90°	12905.7	88.1
0°-180°	14642.0	100.0

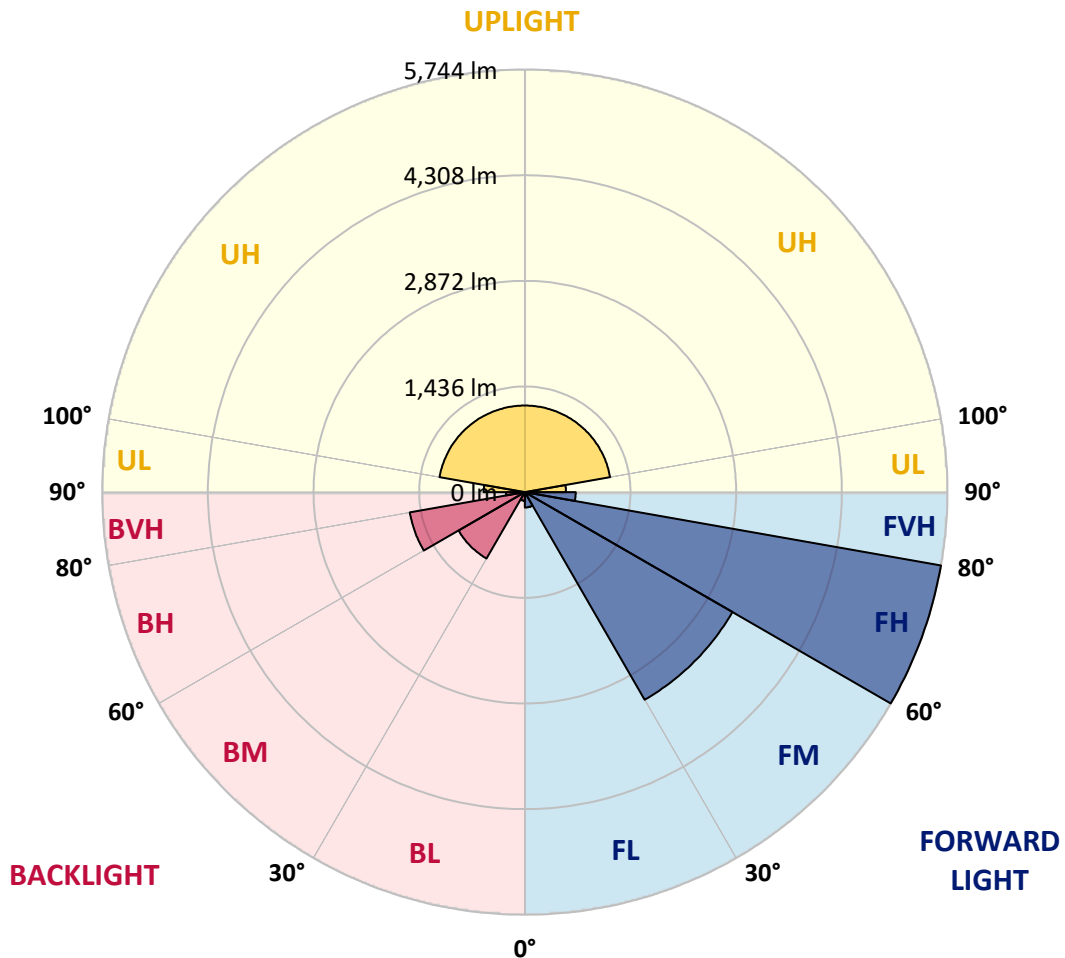


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.8	1.4			
FM (30°-60°)	3257.9	22.3			
FH (60°-80°)	5743.8	39.2			G3/7500
FVH (80°-90°)	691.1	4.7			G4/750
BL (0°-30°)	117.0	0.8	B1/500		
BM (30°-60°)	1041.2	7.1	B2/2500		
BH (60°-80°)	1587.3	10.8	B3/2500		G3/2500
BVH (80°-90°)	257.6	1.8			G3/500
UL (90°-100°)	559.5	3.8		U4/1000	
UH (100°-180°)	1176.7	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°	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
2.5°	405.0	401.9	409.7	415.9	423.6	412.8	394.1	412.8	419.0	437.6	451.6
5°	344.5	346.0	353.8	370.9	386.4	383.3	335.2	273.1	254.5	246.7	248.3
7.5°	341.4	339.8	335.2	333.6	342.9	377.1	372.4	327.4	293.3	263.8	234.3
10°	360.0	364.7	369.3	369.3	363.1	341.4	339.8	336.7	324.3	310.3	291.7
12.5°	445.3	451.6	456.2	440.7	420.5	398.8	381.7	353.8	341.4	333.6	319.7
15°	538.5	544.7	536.9	507.4	471.7	431.4	415.9	417.4	400.3	380.2	350.7
17.5°	588.1	585.0	552.4	518.3	490.3	459.3	437.6	423.6	417.4	409.7	380.2
20°	557.1	549.3	529.1	515.2	512.1	495.0	481.0	468.6	460.9	443.8	408.1
22.5°	533.8	533.8	530.7	527.6	546.2	538.5	532.2	515.2	504.3	482.6	429.8
25°	563.3	563.3	564.8	560.2	585.0	585.0	585.0	566.4	552.4	521.4	457.8
27.5°	605.2	603.6	608.3	605.2	626.9	631.6	640.9	626.9	606.7	569.5	488.8
30°	650.2	650.2	654.8	657.9	679.7	690.5	701.4	695.2	670.4	625.3	541.6
32.5°	698.3	696.7	710.7	726.2	738.6	758.8	763.5	779.0	754.1	701.4	619.1
35°	768.1	772.8	810.0	842.6	878.3	890.7	912.4	972.9	948.1	876.7	782.1
37.5°	1111.0	1087.8	1078.5	1041.2	1036.6	1109.5	1135.9	1193.3	1143.6	1047.4	903.1
40°	1177.8	1149.8	1137.4	1101.7	1114.1	1264.7	1238.3	1444.7	1323.6	1170.0	1076.9
42.5°	1109.5	1104.8	1250.7	1278.6	1263.1	1502.1	1450.9	1832.6	1703.8	1346.9	1242.9
45°	1339.1	1326.7	1388.8	1438.5	1477.3	1907.1	1876.0	2277.9	2222.1	1640.2	1537.8
47.5°	1511.4	1499.0	1570.4	1736.4	1962.9	2428.5	2610.0	3216.8	3027.4	2256.2	2023.5
50°	2026.6	2018.8	2211.2	2389.7	2763.6	3451.1	3949.2	4604.0	4326.2	3151.6	2723.3
52.5°	2513.8	2538.6	2763.6	3106.6	3502.3	4743.7	5454.4	5913.7	5910.6	4104.3	3496.1
55°	2863.0	2946.7	3212.1	3831.2	4380.6	5890.4	6849.4	7189.2	7474.7	5476.1	4258.0
57.5°	3541.1	3686.9	3941.4	4554.3	5263.5	7277.6	8646.3	8590.4	9104.0	6899.0	5086.6
60°	4237.8	4408.5	4493.8	5057.1	5988.2	8613.7	9881.5	9751.1	10267.8	8137.3	5958.7
62.5°	4455.0	4622.6	4706.4	5319.4	6511.1	9370.9	10450.9	10502.2	10823.4	9020.2	6475.4
65°	4591.6	4784.0	4905.0	5457.5	6500.2	9701.5	10911.8	10959.9	11161.6	9400.4	6742.3
67.5°	4566.8	4782.5	4937.6	5432.6	6140.2	9426.8	10797.0	10579.7	10849.7	9128.9	6461.4
70°	4073.3	4261.1	4416.2	4798.0	5125.4	7941.8	9341.5	8983.0	9262.3	7626.8	5334.9
72.5°	3328.5	3406.1	3541.1	3721.1	3884.0	5891.9	7125.6	6818.3	6979.7	5721.3	3997.3
75°	2734.2	2718.6	2839.7	2970.0	2918.8	4304.5	5637.5	5356.6	5507.1	4344.9	3188.8
77.5°	2026.6	2018.8	2194.2	2183.3	2105.7	2980.9	4469.0	4265.7	4285.9	3209.0	2388.1
80°	1218.1	1241.4	1412.1	1446.2	1354.7	1869.8	3190.4	3094.2	2949.9	2192.6	1674.3
82.5°	855.0	890.7	980.7	1017.9	972.9	1365.5	2113.5	2046.7	1876.0	1590.5	1179.3
85°	872.1	878.3	889.1	892.2	872.1	1225.9	1640.2	1602.9	1592.1	1332.9	972.9
87.5°	872.1	886.0	895.4	893.8	858.1	1148.3	1512.9	1454.0	1467.9	1246.0	940.4
90°	782.1	806.9	805.4	810.0	780.5	1038.1	1371.7	1323.6	1342.3	1123.5	855.0
92.5°	639.3	656.4	673.5	706.0	662.6	882.9	1159.1	1114.1	1137.4	955.9	727.8
95°	594.3	609.8	620.7	637.8	594.3	785.2	1025.7	971.4	980.7	811.6	616.0
97.5°	481.0	490.3	502.8	505.9	474.8	603.6	780.5	734.0	740.2	630.0	484.1
100°	403.5	411.2	422.1	422.1	401.9	499.7	617.6	592.8	589.7	515.2	409.7
102.5°	381.7	384.8	401.9	398.8	378.6	460.9	558.6	543.1	544.7	477.9	384.8
105°	375.5	375.5	392.6	384.8	367.8	439.1	522.9	518.3	516.7	454.7	369.3
107.5°	369.3	369.3	386.4	378.6	364.7	414.3	491.9	476.4	474.8	432.9	349.1
110°	344.5	349.1	367.8	358.5	347.6	391.0	451.6	440.7	440.7	408.1	333.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	305.7	308.8	325.9	318.1	310.3	347.6	400.3	386.4	387.9	366.2	311.9
115°	285.5	290.2	307.2	296.4	290.2	324.3	370.9	361.6	364.7	344.5	294.8
117.5°	287.1	288.6	301.0	302.6	290.2	318.1	342.9	346.0	350.7	338.3	299.5
120°	349.1	341.4	347.6	339.8	333.6	366.2	395.7	398.8	397.2	374.0	297.9
122.5°	352.2	336.7	353.8	342.9	336.7	372.4	405.0	412.8	405.0	384.8	304.1
125°	280.9	285.5	287.1	290.2	296.4	335.2	352.2	353.8	355.3	349.1	294.8
127.5°	246.7	245.2	237.4	239.0	252.9	287.1	299.5	308.8	302.6	299.5	265.3
130°	235.9	239.0	237.4	237.4	245.2	271.6	280.9	294.8	290.2	284.0	242.1
132.5°	217.2	220.3	234.3	251.4	248.3	257.6	260.7	274.7	276.2	276.2	243.6
135°	206.4	209.5	220.3	242.1	235.9	240.5	239.0	251.4	252.9	254.5	229.7
137.5°	211.0	212.6	206.4	209.5	214.1	234.3	240.5	252.9	252.9	246.7	214.1
140°	221.9	221.9	207.9	203.3	212.6	243.6	256.0	276.2	273.1	262.2	221.9
142.5°	204.8	207.9	215.7	225.0	245.2	330.5	330.5	369.3	381.7	384.8	268.5
145°	266.9	268.5	271.6	276.2	315.0	432.9	394.1	422.1	432.9	443.8	322.8
147.5°	307.2	310.3	307.2	294.8	330.5	370.9	352.2	364.7	377.1	380.2	324.3
150°	240.5	237.4	235.9	234.3	273.1	285.5	270.0	268.5	277.8	285.5	251.4
152.5°	175.3	173.8	172.2	170.7	204.8	197.1	186.2	186.2	189.3	190.9	176.9
155°	155.2	153.6	150.5	152.1	173.8	166.0	156.7	153.6	156.7	155.2	147.4
157.5°	127.2	124.1	124.1	130.3	141.2	131.9	125.7	121.0	122.6	121.0	122.6
160°	105.5	104.0	105.5	113.3	119.5	111.7	105.5	102.4	102.4	105.5	111.7
162.5°	94.7	93.1	94.7	97.8	100.9	93.1	88.4	88.4	90.0	96.2	108.6
165°	82.2	82.2	83.8	85.3	86.9	82.2	80.7	80.7	83.8	93.1	107.1
167.5°	79.1	79.1	79.1	79.1	79.1	77.6	76.0	80.7	83.8	88.4	97.8
170°	77.6	76.0	77.6	77.6	77.6	77.6	77.6	82.2	82.2	83.8	88.4
172.5°	79.1	79.1	79.1	80.7	83.8	85.3	83.8	86.9	85.3	85.3	85.3
175°	80.7	80.7	82.2	83.8	85.3	86.9	88.4	88.4	88.4	90.0	90.0
177.5°	80.7	80.7	82.2	83.8	85.3	82.2	79.1	77.6	76.0	76.0	76.0
180°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
2.5°	439.1	400.3	346.0	369.3	440.7	426.7	355.3	311.9	315.0	346.0	349.1
5°	256.0	263.8	299.5	374.0	387.9	321.2	259.1	249.8	301.0	372.4	386.4
7.5°	231.2	231.2	260.7	363.1	408.1	335.2	252.9	228.1	266.9	325.9	335.2
10°	279.3	270.0	273.1	310.3	327.4	268.5	226.6	215.7	237.4	245.2	242.1
12.5°	315.0	321.2	350.7	342.9	268.5	218.8	204.8	203.3	215.7	223.5	221.9
15°	338.3	327.4	305.7	280.9	256.0	228.1	207.9	195.5	181.6	175.3	175.3
17.5°	360.0	338.3	299.5	276.2	251.4	231.2	212.6	194.0	187.8	189.3	189.3
20°	386.4	360.0	324.3	297.9	268.5	240.5	217.2	197.1	192.4	194.0	192.4
22.5°	406.6	383.3	346.0	311.9	280.9	249.8	226.6	206.4	200.2	198.6	198.6
25°	431.4	411.2	372.4	330.5	293.3	263.8	243.6	220.3	209.5	206.4	206.4
27.5°	464.0	446.9	403.5	358.5	315.0	280.9	259.1	234.3	218.8	212.6	211.0
30°	513.6	490.3	442.2	386.4	341.4	305.7	279.3	248.3	229.7	218.8	217.2
32.5°	588.1	558.6	495.0	425.2	370.9	333.6	301.0	262.2	239.0	226.6	225.0
35°	746.4	713.8	633.1	535.3	456.2	380.2	329.0	277.8	248.3	232.8	231.2
37.5°	845.7	786.7	689.0	600.5	504.3	459.3	394.1	325.9	260.7	240.5	237.4
40°	990.0	914.0	791.4	671.9	502.8	501.2	457.8	397.2	307.2	254.5	249.8
42.5°	1097.1	999.3	845.7	712.2	507.4	521.4	484.1	431.4	364.7	296.4	288.6
45°	1315.9	1191.7	948.1	747.9	513.6	544.7	507.4	451.6	392.6	344.5	339.8
47.5°	1725.5	1553.3	1146.7	816.2	583.5	622.2	555.5	490.3	432.9	384.8	374.0
50°	2298.1	2091.7	1387.3	876.7	702.9	791.4	682.8	583.5	515.2	477.9	467.1
52.5°	2970.0	2738.8	1537.8	971.4	847.2	999.3	879.8	763.5	673.5	679.7	673.5
55°	3719.5	3446.4	1669.7	1114.1	1031.9	1230.5	1100.2	999.3	951.2	1086.2	1094.0
57.5°	4442.6	4150.9	1751.9	1264.7	1238.3	1497.4	1345.4	1274.0	1292.6	1688.3	1781.4
60°	5133.1	4672.3	1815.5	1405.9	1412.1	1706.9	1590.5	1576.6	1634.0	2141.4	2282.6
62.5°	5531.9	4939.2	1812.4	1497.4	1520.7	1835.7	1733.3	1741.0	1784.5	2215.9	2333.8
65°	5803.5	5074.2	1781.4	1544.0	1567.3	1882.3	1750.4	1689.8	1661.9	1956.7	2082.4
67.5°	5640.6	4813.5	1706.9	1503.6	1534.7	1807.8	1643.3	1491.2	1443.1	1602.9	1677.4
70°	4768.5	4022.1	1520.7	1367.1	1387.3	1525.4	1385.7	1219.7	1171.6	1255.4	1289.5
72.5°	3603.1	3088.0	1364.0	1263.1	1215.0	1261.6	1125.0	951.2	940.4	985.4	991.6
75°	2878.5	2423.8	1242.9	1139.0	1010.2	1058.3	893.8	707.6	693.6	696.7	681.2
77.5°	2169.3	1803.1	1045.9	896.9	765.0	844.1	664.1	488.8	465.5	456.2	439.1
80°	1485.0	1252.3	710.7	600.5	543.1	619.1	473.3	358.5	356.9	353.8	335.2
82.5°	1053.6	966.7	580.3	510.5	460.9	487.2	411.2	335.2	327.4	329.0	308.8
85°	921.7	875.2	560.2	516.7	468.6	467.1	392.6	313.5	310.3	311.9	293.3
87.5°	881.4	830.2	547.8	493.5	446.9	423.6	346.0	276.2	284.0	288.6	271.6
90°	789.8	737.1	496.6	440.7	395.7	355.3	293.3	249.8	262.2	265.3	249.8
92.5°	665.7	611.4	386.4	353.8	332.1	325.9	274.7	237.4	246.7	248.3	235.9
95°	563.3	513.6	336.7	311.9	296.4	294.8	248.3	215.7	220.3	218.8	207.9
97.5°	453.1	417.4	294.8	271.6	254.5	245.2	212.6	187.8	194.0	197.1	189.3
100°	386.4	366.2	274.7	254.5	234.3	221.9	194.0	173.8	180.0	186.2	180.0
102.5°	363.1	347.6	270.0	248.3	226.6	211.0	184.7	162.9	166.0	173.8	169.1
105°	344.5	330.5	262.2	239.0	218.8	201.7	180.0	153.6	152.1	159.8	158.3
107.5°	324.3	311.9	257.6	229.7	207.9	192.4	172.2	147.4	141.2	145.9	144.3
110°	313.5	301.0	248.3	218.8	195.5	181.6	162.9	142.8	135.0	136.6	136.6



REPORT NUMBER: P856209

CATALOG NUMBER: FFX-CLB-100-730-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	291.7	277.8	228.1	200.2	181.6	169.1	150.5	136.6	127.2	130.3	131.9
115°	277.8	259.1	209.5	189.3	169.1	158.3	147.4	135.0	124.1	124.1	125.7
117.5°	287.1	251.4	195.5	180.0	169.1	166.0	162.9	144.3	122.6	121.0	121.0
120°	274.7	252.9	212.6	207.9	197.1	187.8	167.6	142.8	119.5	116.4	116.4
122.5°	268.5	263.8	240.5	225.0	204.8	186.2	156.7	130.3	114.8	111.7	111.7
125°	265.3	260.7	232.8	203.3	176.9	158.3	139.7	122.6	113.3	108.6	108.6
127.5°	243.6	221.9	187.8	170.7	153.6	145.9	130.3	119.5	108.6	102.4	102.4
130°	225.0	204.8	175.3	156.7	142.8	136.6	125.7	114.8	104.0	97.8	96.2
132.5°	221.9	201.7	170.7	147.4	135.0	128.8	122.6	110.2	97.8	91.6	90.0
135°	206.4	183.1	152.1	139.7	131.9	127.2	122.6	107.1	94.7	88.4	88.4
137.5°	190.9	167.6	144.3	138.1	131.9	127.2	113.3	97.8	88.4	83.8	83.8
140°	192.4	166.0	147.4	142.8	133.4	119.5	107.1	96.2	88.4	82.2	80.7
142.5°	204.8	172.2	149.0	135.0	128.8	121.0	116.4	104.0	88.4	77.6	74.5
145°	225.0	186.2	167.6	161.4	150.5	136.6	119.5	96.2	80.7	71.4	69.8
147.5°	248.3	209.5	187.8	170.7	149.0	125.7	102.4	83.8	71.4	68.3	66.7
150°	215.7	178.4	161.4	138.1	119.5	100.9	83.8	74.5	68.3	66.7	66.7
152.5°	162.9	133.4	119.5	108.6	97.8	88.4	79.1	72.9	68.3	65.2	65.2
155°	141.2	125.7	111.7	100.9	90.0	80.7	72.9	69.8	65.2	65.2	63.6
157.5°	124.1	116.4	97.8	88.4	80.7	76.0	72.9	68.3	66.7	65.2	65.2
160°	113.3	108.6	90.0	82.2	77.6	74.5	74.5	71.4	66.7	65.2	65.2
162.5°	110.2	105.5	86.9	79.1	74.5	76.0	79.1	77.6	71.4	68.3	68.3
165°	108.6	105.5	88.4	77.6	74.5	76.0	83.8	85.3	77.6	72.9	71.4
167.5°	99.3	97.8	93.1	85.3	80.7	80.7	85.3	86.9	83.8	83.8	82.2
170°	90.0	90.0	91.6	93.1	90.0	85.3	82.2	82.2	86.9	91.6	93.1
172.5°	86.9	88.4	91.6	96.2	96.2	90.0	85.3	83.8	88.4	94.7	96.2
175°	91.6	93.1	94.7	94.7	91.6	90.0	88.4	86.9	90.0	96.2	97.8
177.5°	76.0	76.0	77.6	77.6	76.0	77.6	76.0	72.9	72.9	72.9	72.9
180°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

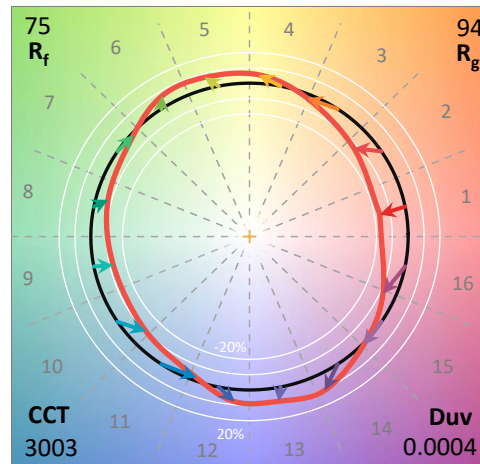
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-4  
 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-100-730-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 3003  
 CIE u': 0.2503  
 CIE v': 0.5219  
 Duv: 0.0004  
 CIE x: 0.4373  
 CIE y: 0.4053  
 CIE z: 0.1573  
 Peak Wavelength (nm): 595  
 Dominant Wavelength (nm): 582  
 Purity: 52.93545  
 Rf: 75.2  
 Rg: 93.8

CRI (Ra): 71.9  
 R1: 68.2  
 R2: 82.2  
 R3: 93.9  
 R4: 67.6  
 R5: 67.2  
 R6: 75.3  
 R7: 77.6  
 R8: 43.1  
 R9: -33.7  
 R10: 59.0  
 R11: 62.4  
 R12: 48.5  
 R13: 70.8  
 R14: 96.6  
 R15: 60.0



**Test Conditions**

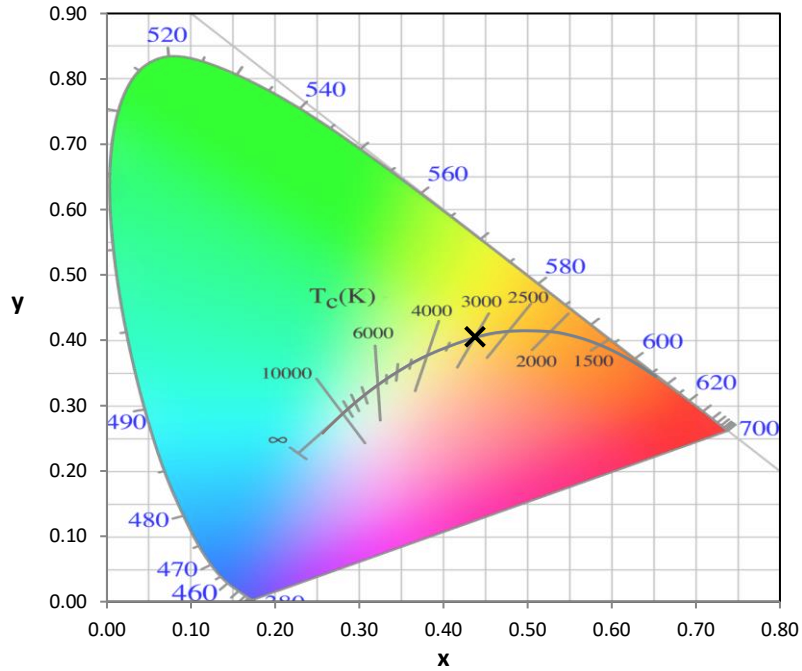
Stabilization Time: 0.794393M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

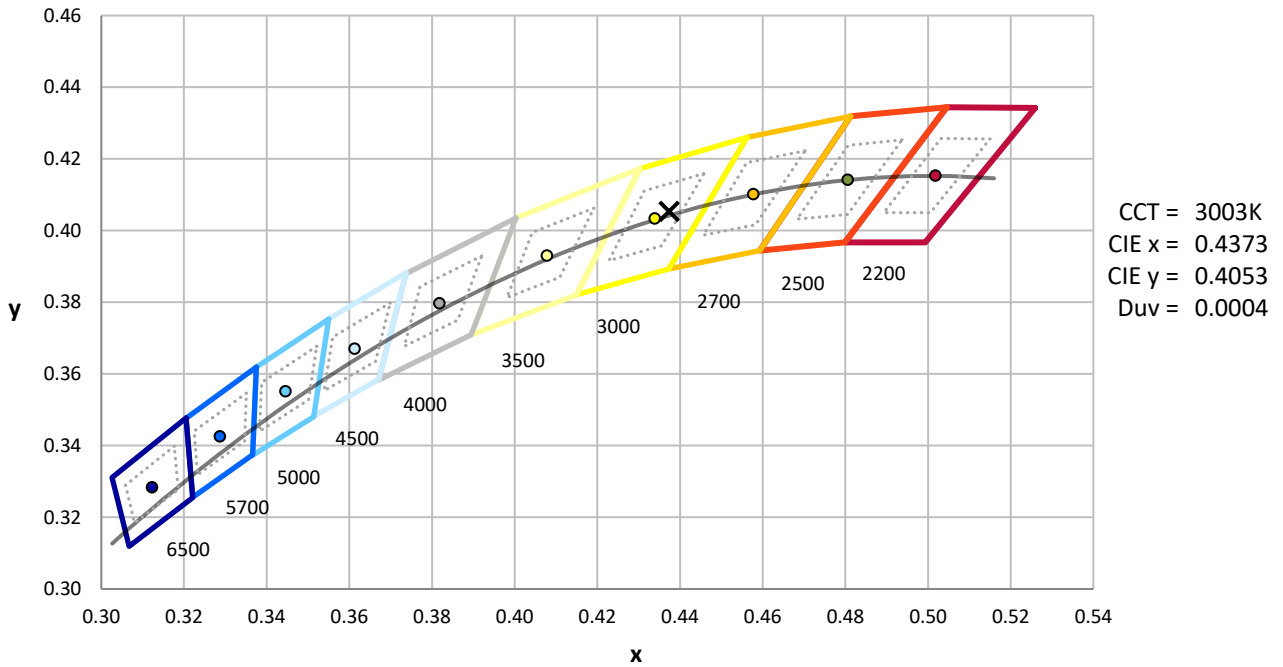
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



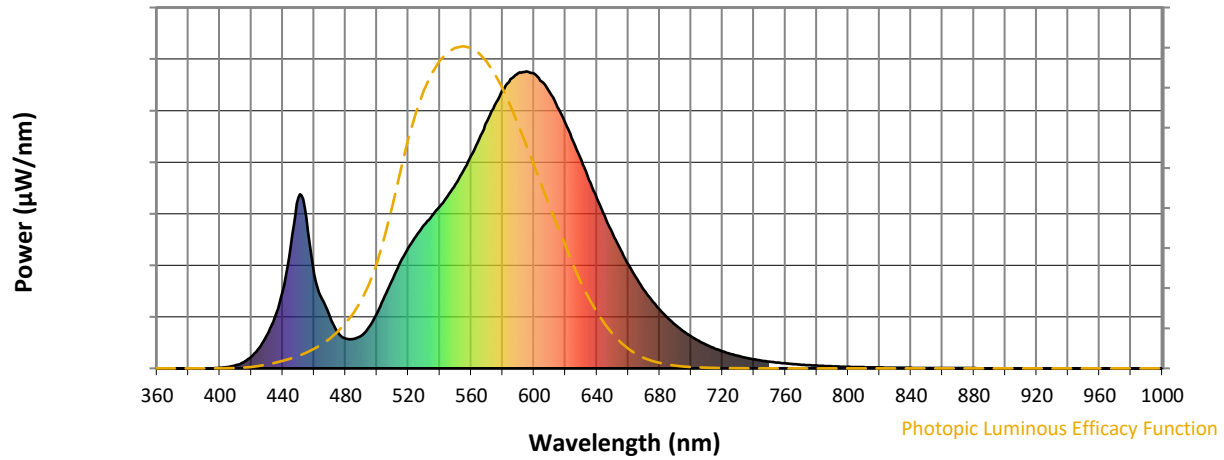
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

**Photopic Flux vs. Wavelength**

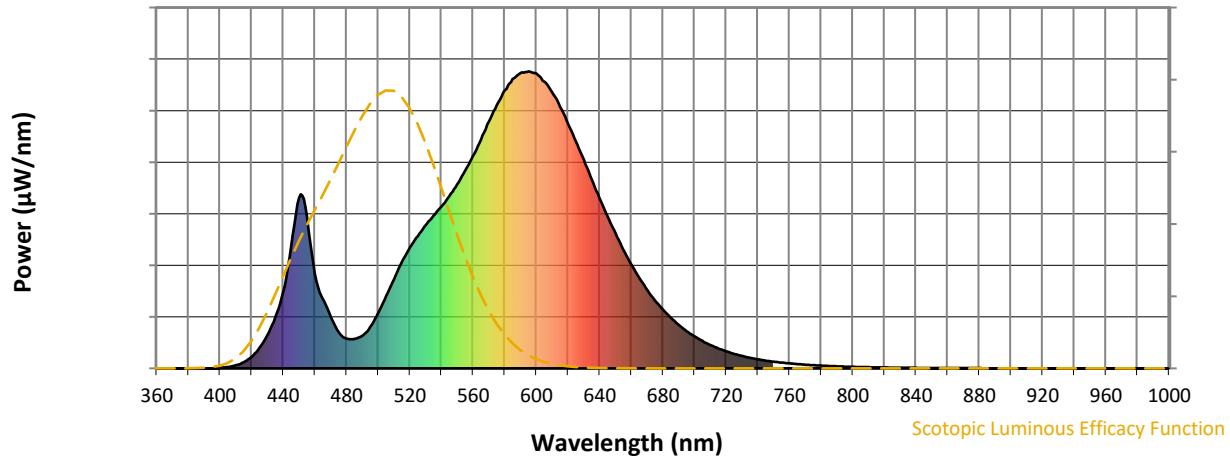


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

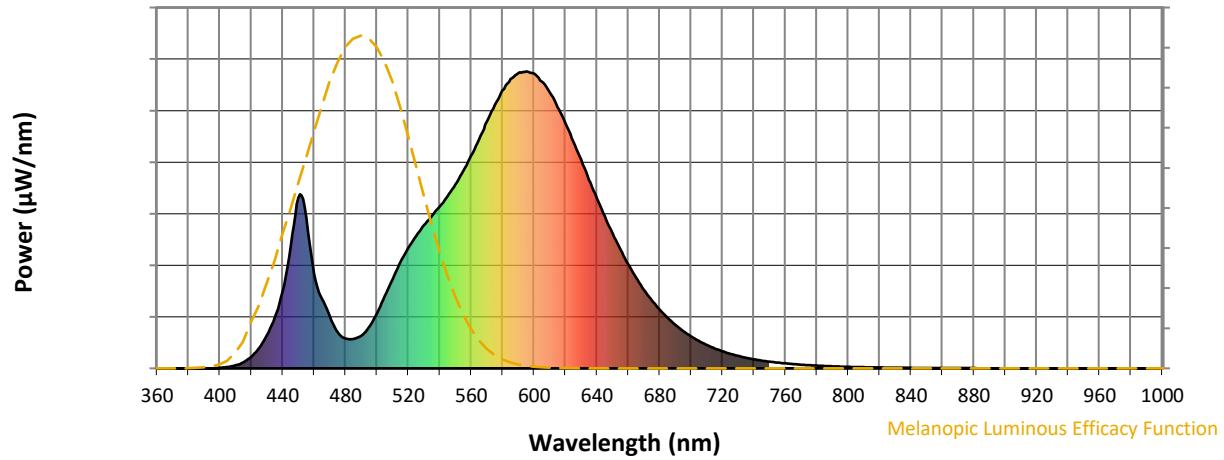
**S/P: 1.21**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			



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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

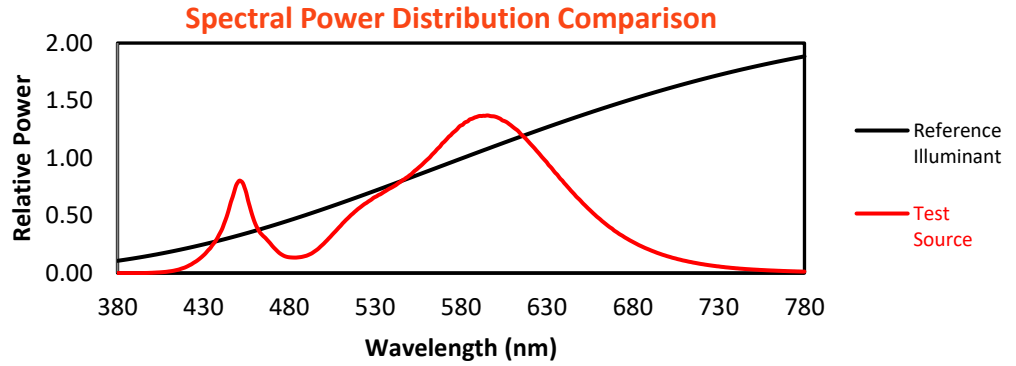
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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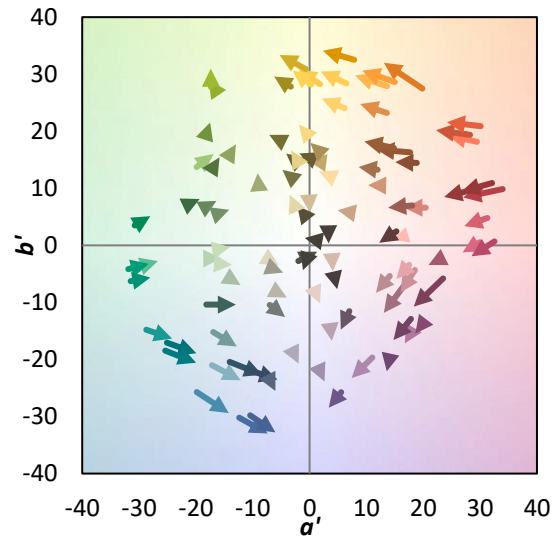
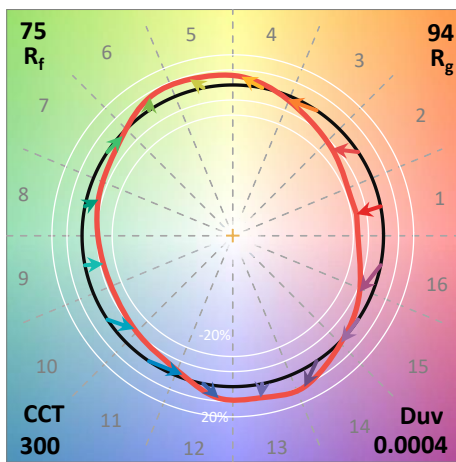
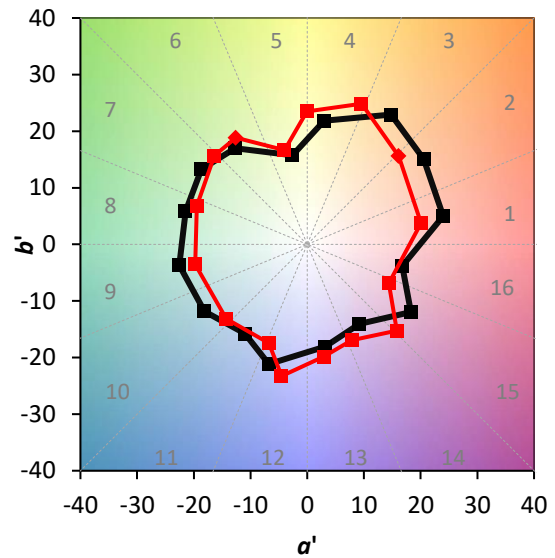
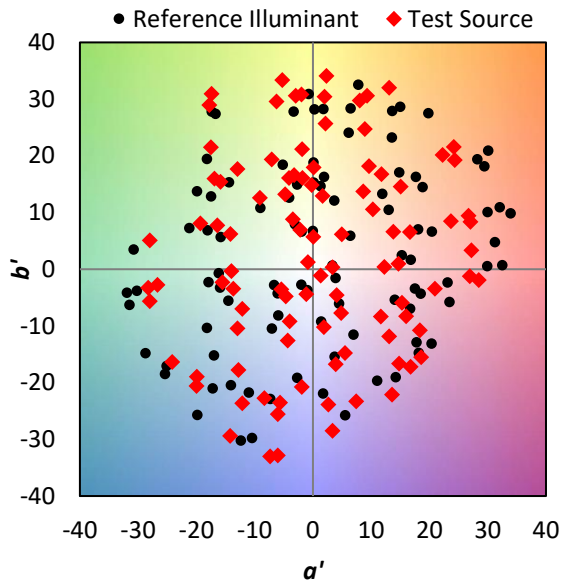
TM-30-18

**Summary**

$R_f = 75.2$   
 $R_g = 93.8$   
 CIE  $R_a = 71.9$   
 $R_9 = -33.7$



**Color Vector Graphics**

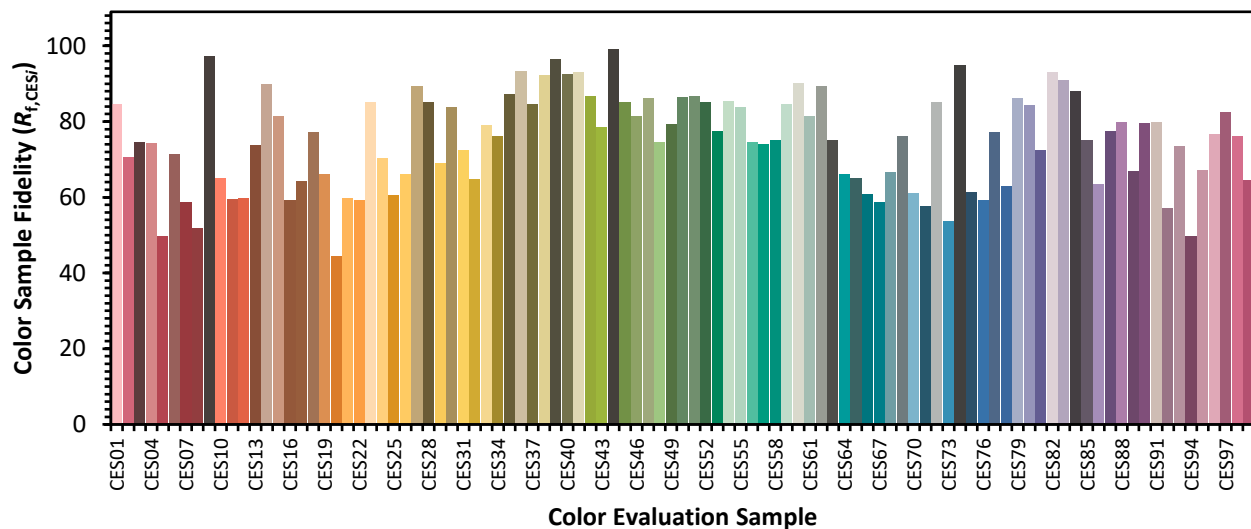


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

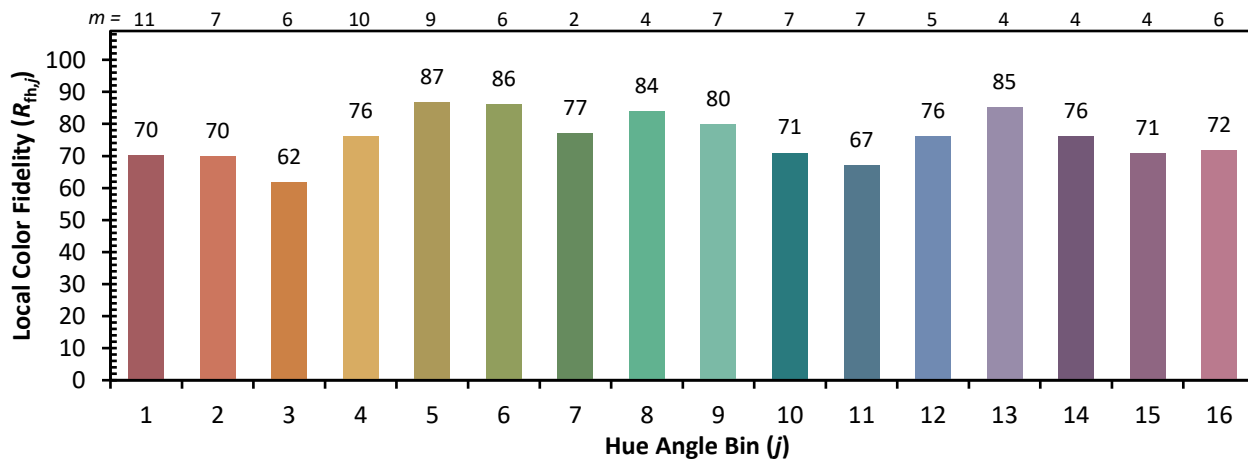
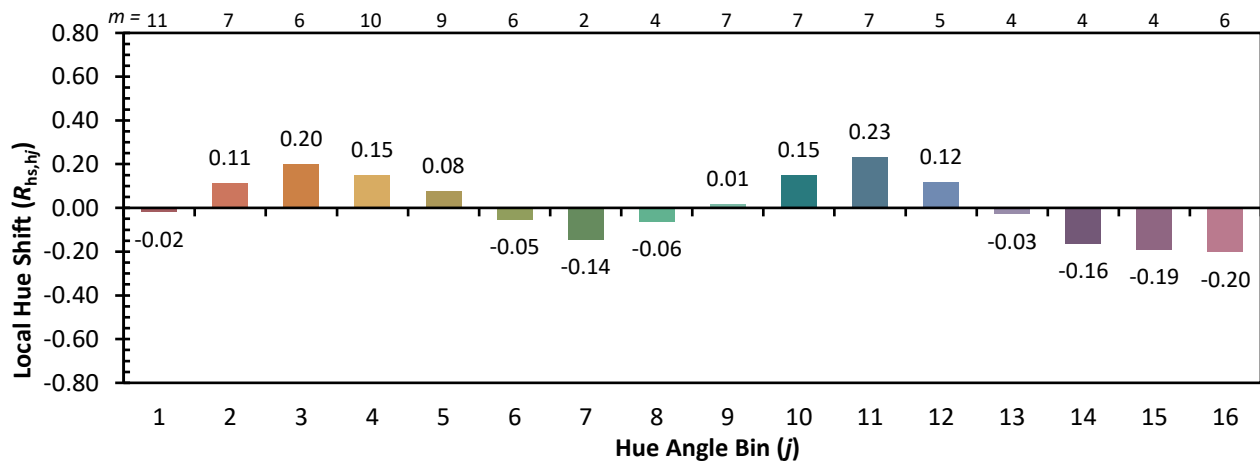
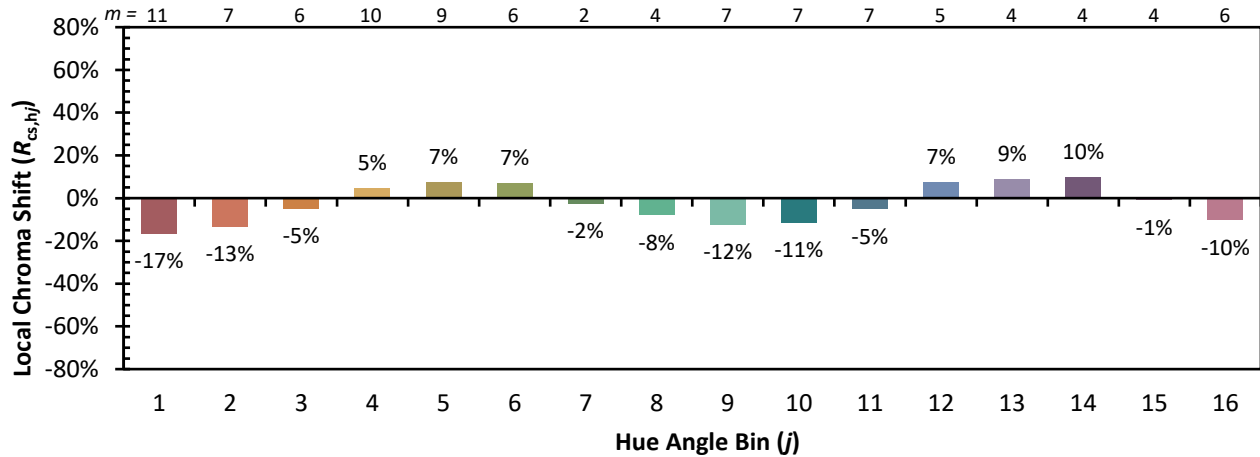
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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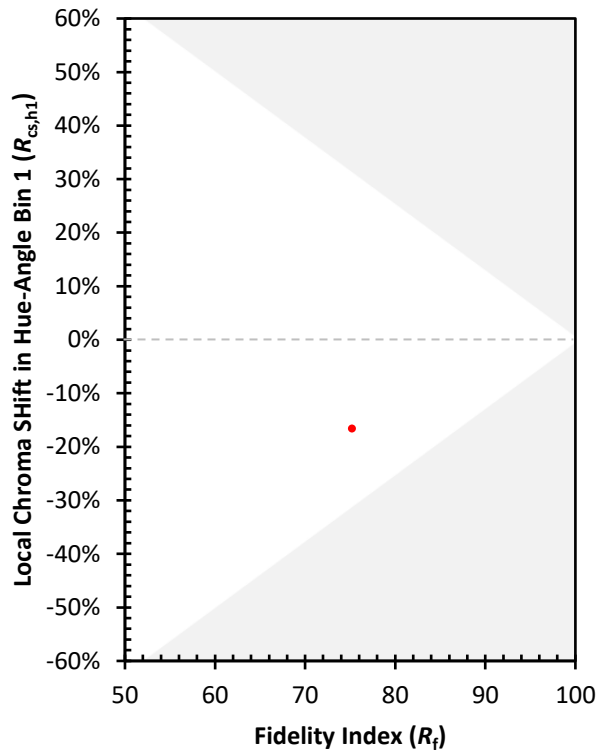
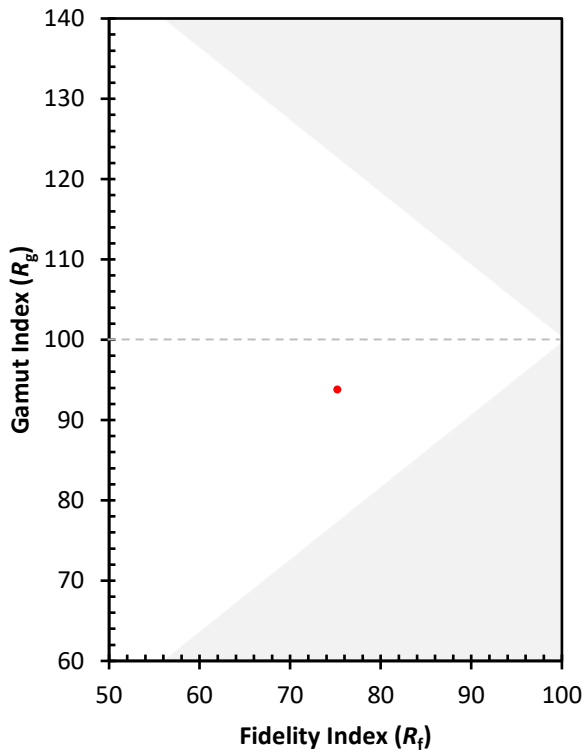
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)