

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: P856138

Luminaire Tested: **FFX-CLB-90-750-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856138  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-90-750-U-FR-T3  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS  
Light Source: (4) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

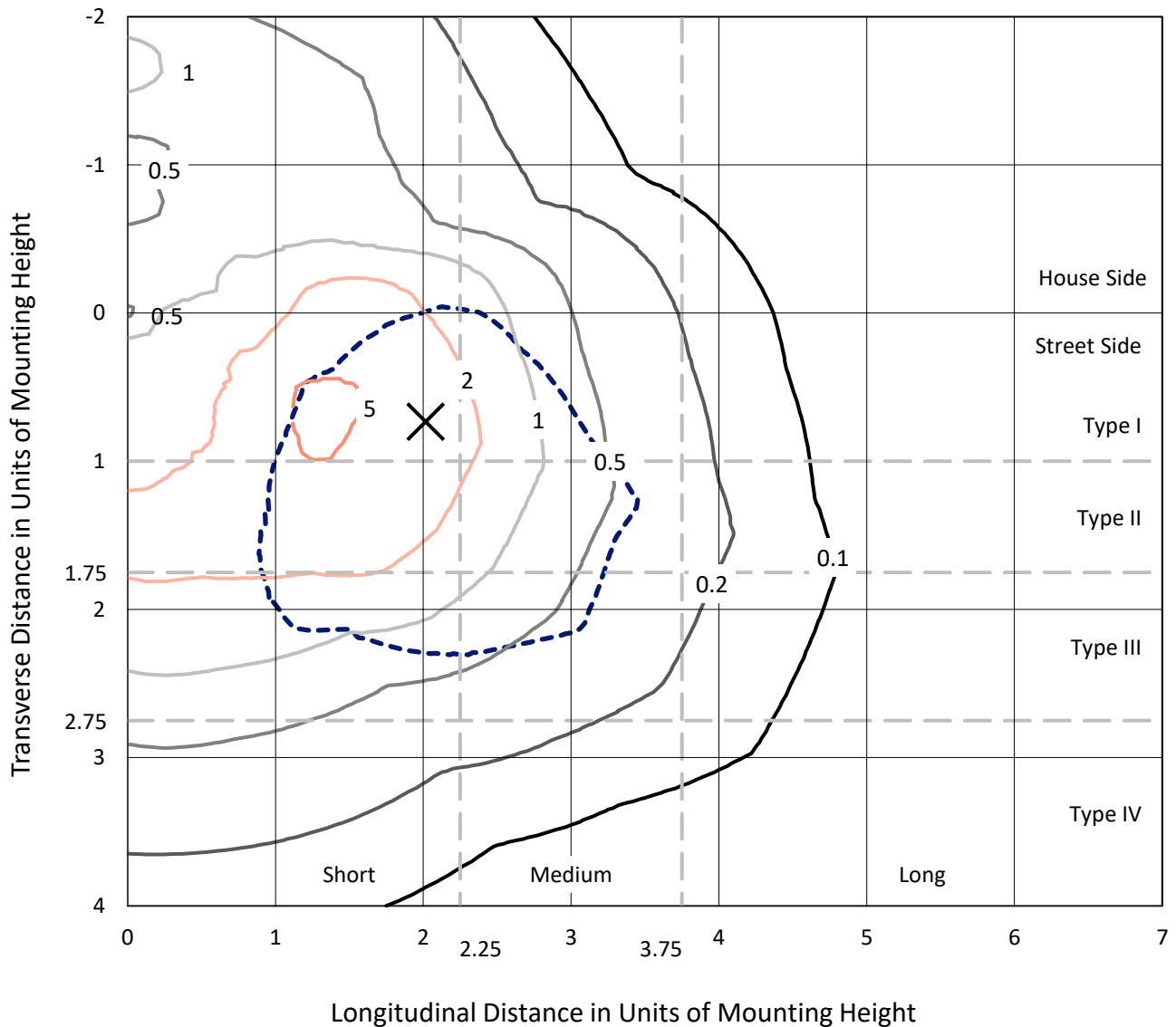
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13926.1 lumens  
Efficiency: N/A  
Efficacy: 154.2 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

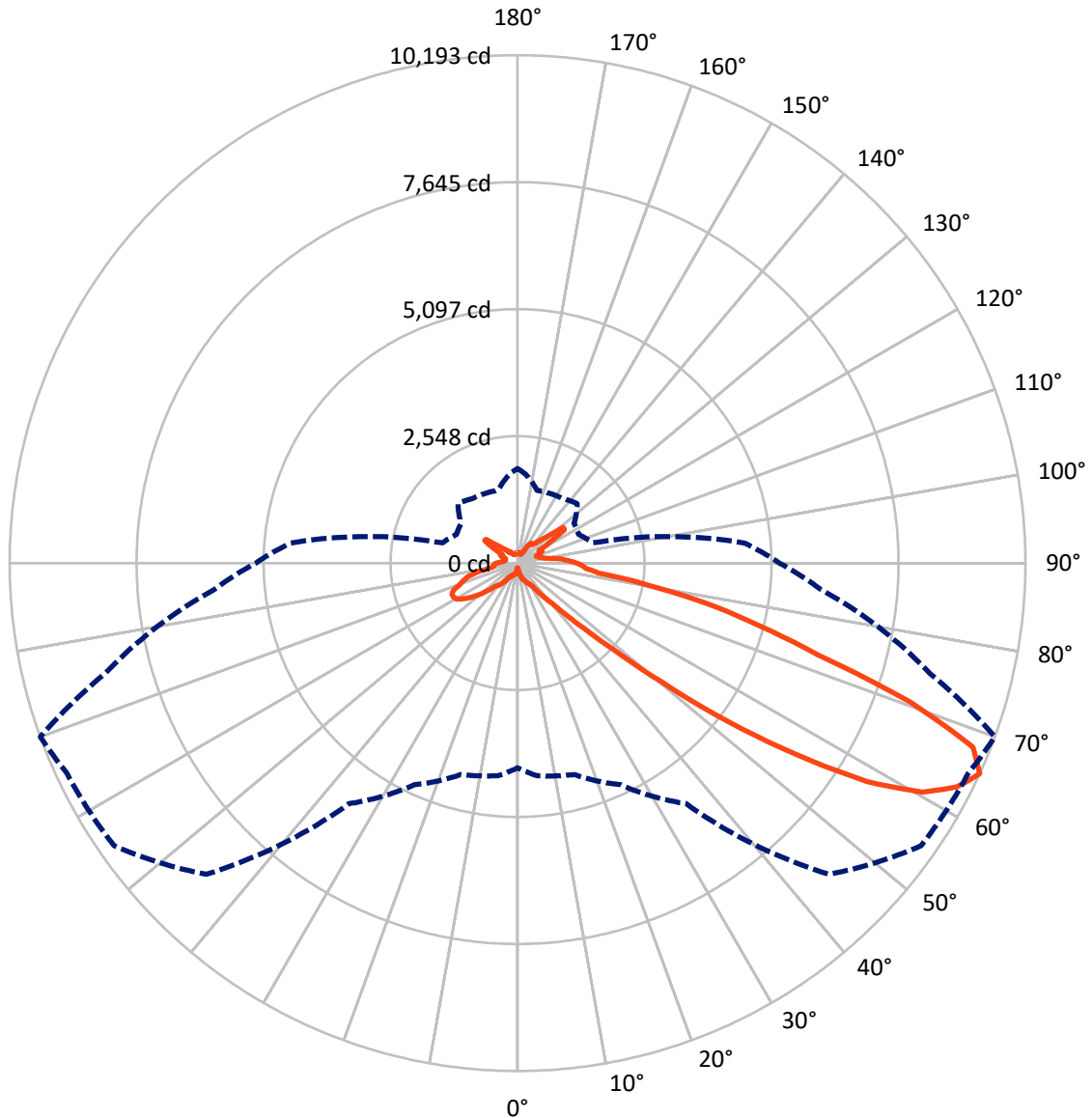
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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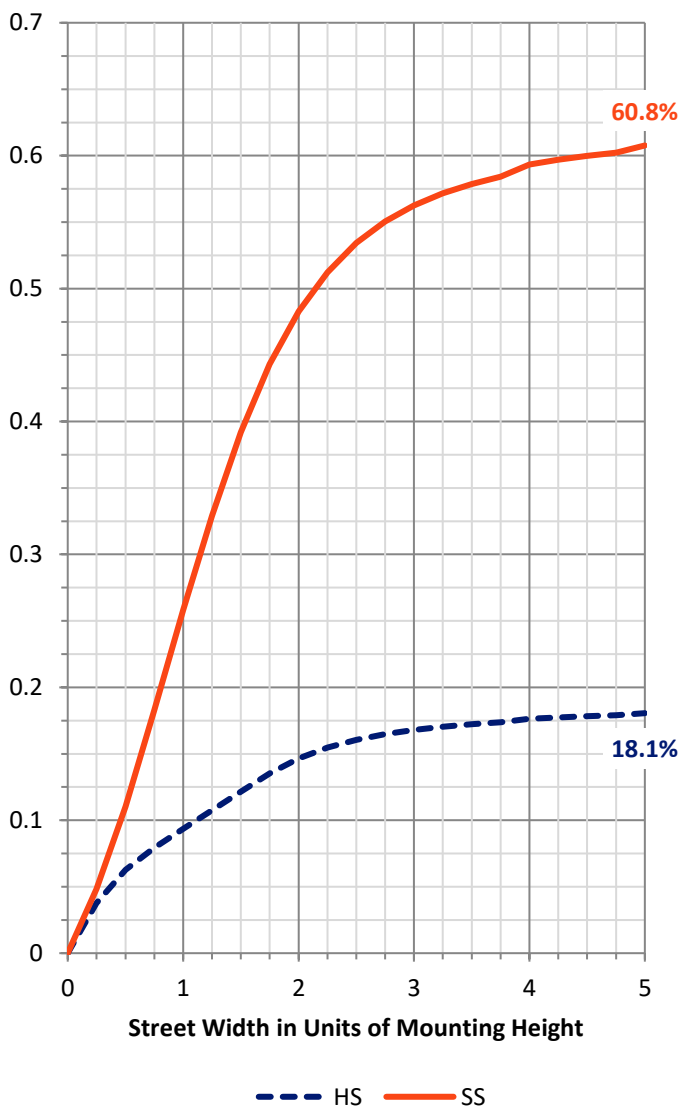
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2623.3	935.8	3559.1
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	8747.6	1619.4	10367.0
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	11370.9	2555.3	13926.1
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	0.1
10°-20°	73.0	0.5
20°-30°	154.9	1.1
30°-40°	315.4	2.3
40°-50°	801.9	5.8
50°-60°	2577.2	18.5
60°-70°	4206.0	30.2
70°-80°	2394.5	17.2
80°-90°	833.2	6.0
90°-100°	518.5	3.7
100°-110°	330.2	2.4
110°-120°	363.3	2.6
120°-130°	614.4	4.4
130°-140°	362.2	2.6
140°-150°	194.9	1.4
150°-160°	98.5	0.7
160°-170°	53.9	0.4
170°-180°	19.4	0.1
0°-90°	11370.9	81.7
0°-180°	13926.1	100.0



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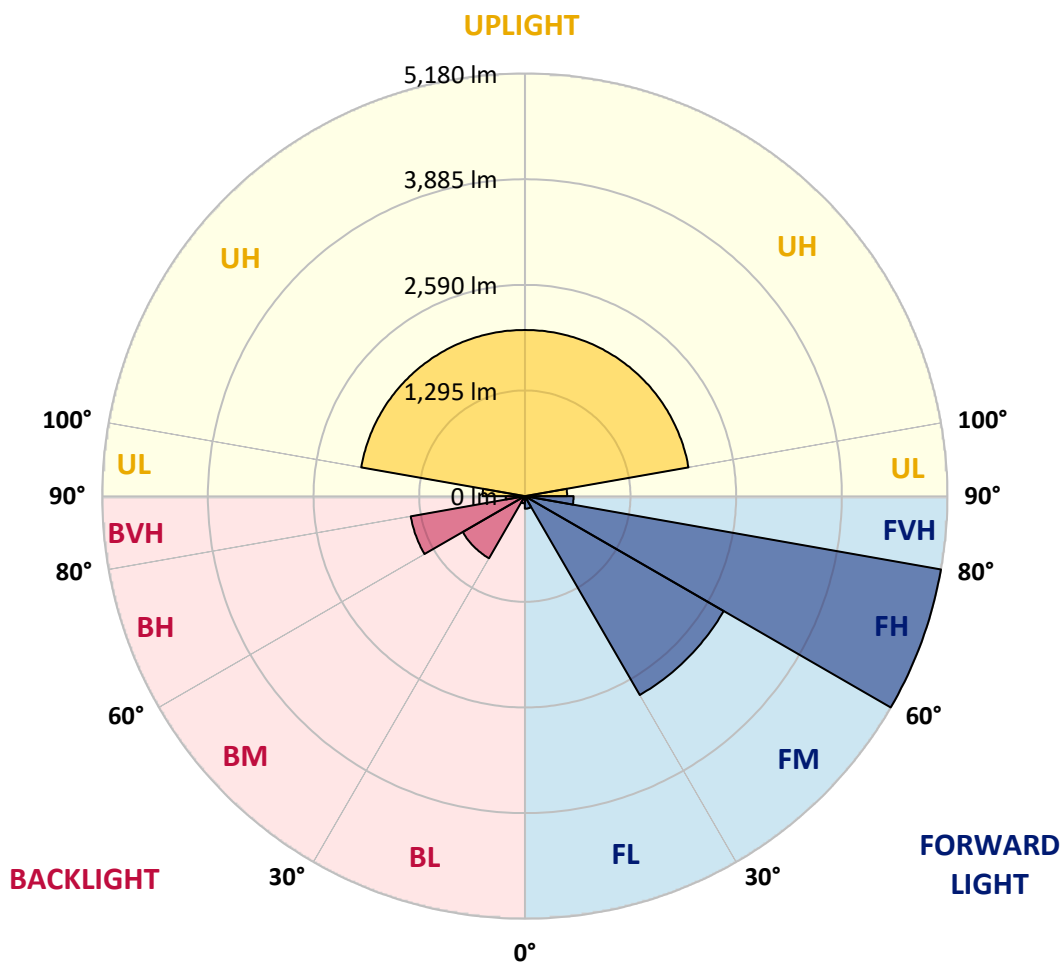
CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.6	1.1			
FM (30°-60°)	2815.3	20.2			
FH (60°-80°)	5180.3	37.2			G3/7500
FVH (80°-90°)	597.4	4.3			G4/750
BL (0°-30°)	88.1	0.6	B0/110		
BM (30°-60°)	879.2	6.3	B1/1000		
BH (60°-80°)	1420.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	235.8	1.7			G3/500
UL (90°-100°)	518.5	3.7		U4/1000	
UH (100°-180°)	2036.8	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°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	110.5	110.5	113.4	113.4	113.4	110.5	109.1	106.2	106.2	106.2	104.8
5°	143.5	142.1	143.5	147.8	149.2	144.9	142.1	137.8	137.8	136.3	136.3
7.5°	193.7	192.3	189.4	185.1	186.6	190.9	196.6	185.1	182.3	175.1	172.2
10°	242.5	239.7	242.5	235.4	228.2	218.1	223.9	221.0	215.3	208.1	202.3
12.5°	295.6	297.1	302.8	297.1	285.6	269.8	266.9	259.7	254.0	252.6	244.0
15°	350.2	351.6	357.3	355.9	344.4	322.9	314.3	307.1	304.2	295.6	277.0
17.5°	378.9	380.3	381.7	383.2	376.0	358.8	345.9	332.9	328.6	325.8	302.8
20°	393.2	390.3	393.2	399.0	404.7	390.3	377.4	370.3	365.9	355.9	325.8
22.5°	416.2	413.3	411.9	416.2	433.4	423.3	410.4	403.3	399.0	386.0	340.1
25°	440.6	437.7	442.0	439.1	460.7	456.4	443.4	436.3	430.5	414.7	361.6
27.5°	467.8	465.0	469.3	466.4	483.6	486.5	477.9	472.1	463.5	440.6	377.4
30°	490.8	487.9	492.2	490.8	508.0	518.1	513.8	512.3	499.4	472.1	404.7
32.5°	509.5	508.0	518.1	522.4	526.7	549.6	546.8	559.7	545.3	512.3	444.9
35°	552.5	556.8	584.1	612.8	617.1	663.0	668.7	716.1	701.8	658.7	576.9
37.5°	853.9	838.1	810.8	783.6	773.5	862.5	875.4	922.8	886.9	806.5	674.5
40°	909.8	884.0	852.4	830.9	833.8	993.1	965.8	1145.2	1043.3	922.8	823.7
42.5°	863.9	855.3	965.8	1017.5	980.2	1212.6	1166.7	1508.3	1392.0	1096.4	994.5
45°	1083.5	1066.3	1105.0	1156.7	1168.2	1595.8	1564.2	1921.6	1874.2	1370.5	1275.8
47.5°	1239.9	1224.1	1275.8	1450.9	1601.6	2063.6	2235.9	2751.0	2584.6	1947.4	1727.8
50°	1709.2	1706.3	1865.6	2073.7	2337.7	3002.2	3460.0	4038.3	3770.0	2756.8	2369.3
52.5°	2172.7	2178.5	2373.6	2742.4	3016.5	4190.4	4840.5	5245.2	5281.1	3594.9	3071.1
55°	2522.9	2558.7	2794.1	3412.6	3827.4	5248.1	6091.9	6406.2	6765.0	4857.7	3801.5
57.5°	3206.0	3260.5	3484.4	4090.0	4669.8	6565.5	7704.9	7739.4	8274.7	6258.4	4585.1
60°	3803.0	3930.7	4009.6	4559.3	5350.0	7824.1	8903.2	8834.4	9336.6	7419.4	5380.1
62.5°	3988.1	4134.5	4209.1	4794.6	5888.1	8530.1	9462.9	9549.0	9894.9	8234.5	5866.6
65°	4108.6	4280.8	4392.8	4910.8	5893.9	8831.5	9887.7	9979.6	10193.4	8576.0	6109.1
67.5°	4046.9	4266.5	4410.0	4870.7	5583.9	8599.0	9803.0	9626.5	9853.3	8290.5	5837.9
70°	3533.2	3762.8	3907.7	4250.7	4668.3	7229.9	8451.2	8155.6	8355.0	6920.0	4800.3
72.5°	2878.8	2992.1	3081.1	3269.1	3518.8	5332.8	6422.0	6176.6	6295.7	5206.5	3597.7
75°	2365.0	2399.5	2510.0	2617.6	2659.2	3900.5	5087.4	4863.5	5002.7	3963.7	2863.0
77.5°	1717.8	1737.9	1895.7	1913.0	1902.9	2676.4	4009.6	3813.0	3857.5	2946.2	2136.8
80°	997.4	1036.1	1242.8	1232.7	1215.5	1648.9	2822.8	2743.9	2606.1	2000.5	1479.6
82.5°	703.2	741.9	836.7	858.2	846.7	1183.9	1832.6	1780.9	1631.7	1392.0	1023.2
85°	740.5	744.8	749.1	759.2	740.5	1056.2	1403.5	1377.7	1379.1	1150.9	843.8
87.5°	730.5	747.7	754.9	759.2	740.5	1003.1	1304.5	1271.5	1287.3	1093.5	819.4
90°	641.5	673.1	675.9	683.1	673.1	895.5	1171.0	1139.5	1159.5	985.9	746.2
92.5°	523.8	541.0	561.1	588.4	576.9	766.3	995.9	973.0	997.4	853.9	655.8
95°	496.5	515.2	528.1	546.8	529.5	698.9	899.8	853.9	874.0	747.7	565.4
97.5°	410.4	426.2	437.7	444.9	432.0	551.1	690.3	658.7	657.3	578.3	452.1
100°	350.2	360.2	370.3	377.4	365.9	456.4	546.8	535.3	538.2	477.9	388.9
102.5°	332.9	338.7	354.5	355.9	343.0	416.2	492.2	487.9	493.7	442.0	364.5
105°	325.8	330.1	343.0	338.7	327.2	388.9	453.5	456.4	456.4	411.9	341.5
107.5°	304.2	311.4	325.8	318.6	312.8	358.8	417.6	407.6	410.4	383.2	324.3
110°	301.4	307.1	321.5	315.7	311.4	350.2	401.8	399.0	403.3	378.9	332.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	374.6	368.8	380.3	368.8	376.0	409.0	463.5	457.8	470.7	462.1	416.2
115°	462.1	465.0	476.4	453.5	460.7	493.7	523.8	533.9	545.3	532.4	485.1
117.5°	427.7	452.1	437.7	434.8	429.1	454.9	450.6	476.4	487.9	477.9	459.2
120°	457.8	487.9	446.3	424.8	416.2	480.8	512.3	510.9	502.3	482.2	443.4
122.5°	684.5	688.8	691.7	756.3	733.3	796.5	815.1	790.7	790.7	816.6	737.6
125°	1067.7	1072.0	1069.1	1097.8	1082.1	1142.3	1166.7	1165.3	1150.9	1138.0	1060.5
127.5°	1079.2	1079.2	1069.1	1053.3	1067.7	1126.5	1128.0	1182.5	1163.9	1129.4	1057.7
130°	753.4	759.2	795.0	806.5	826.6	839.5	825.2	872.5	881.1	875.4	826.6
132.5°	624.3	634.3	673.1	687.4	700.3	701.8	696.0	733.3	741.9	741.9	720.4
135°	539.6	551.1	555.4	548.2	566.9	581.2	592.7	622.8	620.0	614.2	595.6
137.5°	470.7	475.0	462.1	446.3	456.4	498.0	520.9	552.5	551.1	541.0	509.5
140°	397.5	399.0	391.8	384.6	394.6	430.5	452.1	486.5	482.2	475.0	437.7
142.5°	301.4	305.7	324.3	338.7	363.1	437.7	426.2	456.4	477.9	495.1	409.0
145°	317.2	311.4	308.5	324.3	355.9	463.5	430.5	469.3	479.3	490.8	391.8
147.5°	365.9	368.8	364.5	354.5	397.5	432.0	413.3	447.7	453.5	450.6	410.4
150°	287.0	291.3	292.8	288.5	341.5	340.1	321.5	347.3	350.2	350.2	322.9
152.5°	233.9	235.4	232.5	229.6	264.1	258.3	249.7	258.3	256.9	255.4	249.7
155°	222.4	222.4	219.6	221.0	244.0	238.2	232.5	238.2	235.4	231.0	225.3
157.5°	205.2	206.7	206.7	211.0	225.3	215.3	209.5	212.4	209.5	206.7	206.7
160°	193.7	193.7	195.2	200.9	209.5	199.5	195.2	196.6	195.2	192.3	193.7
162.5°	189.4	189.4	190.9	193.7	195.2	189.4	185.1	185.1	185.1	185.1	189.4
165°	186.6	186.6	186.6	188.0	188.0	183.7	182.3	183.7	185.1	186.6	192.3
167.5°	192.3	192.3	192.3	192.3	190.9	188.0	186.6	188.0	189.4	190.9	195.2
170°	200.9	199.5	199.5	198.0	196.6	193.7	192.3	190.9	190.9	192.3	193.7
172.5°	206.7	206.7	205.2	205.2	203.8	200.9	198.0	196.6	196.6	196.6	196.6
175°	213.8	213.8	213.8	213.8	212.4	209.5	208.1	205.2	205.2	205.2	205.2
177.5°	222.4	222.4	222.4	222.4	219.6	216.7	213.8	211.0	211.0	211.0	209.5
180°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	103.3	101.9	97.6	96.2	94.7	91.8	89.0	87.5	86.1	86.1	87.5
5°	137.8	136.3	136.3	132.0	127.7	120.5	117.7	117.7	119.1	120.5	123.4
7.5°	173.6	176.5	179.4	172.2	159.3	142.1	132.0	134.9	142.1	147.8	147.8
10°	200.9	200.9	211.0	202.3	180.8	159.3	144.9	142.1	143.5	144.9	146.4
12.5°	239.7	239.7	233.9	211.0	189.4	167.9	156.4	153.6	153.6	147.8	146.4
15°	268.4	259.7	239.7	218.1	199.5	178.0	165.0	160.7	156.4	152.1	150.7
17.5°	285.6	269.8	242.5	222.4	203.8	186.6	173.6	165.0	160.7	162.2	162.2
20°	305.7	288.5	264.1	242.5	219.6	196.6	180.8	167.9	163.6	165.0	163.6
22.5°	321.5	304.2	279.8	255.4	231.0	206.7	188.0	172.2	166.5	167.9	167.9
25°	340.1	325.8	299.9	271.2	241.1	218.1	199.5	180.8	172.2	170.8	170.8
27.5°	358.8	348.7	321.5	287.0	255.4	228.2	209.5	188.0	178.0	173.6	173.6
30°	383.2	371.7	344.4	302.8	268.4	242.5	222.4	199.5	185.1	178.0	176.5
32.5°	421.9	409.0	376.0	331.5	282.7	256.9	235.4	209.5	190.9	182.3	180.8
35°	548.2	528.1	476.4	424.8	345.9	287.0	251.1	218.1	196.6	185.1	183.7
37.5°	627.1	578.3	509.5	475.0	388.9	351.6	302.8	249.7	205.2	190.9	188.0
40°	754.9	687.4	601.3	533.9	378.9	384.6	354.5	311.4	244.0	200.9	196.6
42.5°	862.5	777.8	647.2	559.7	380.3	401.8	378.9	343.0	292.8	238.2	229.6
45°	1063.4	954.3	752.0	601.3	390.3	427.7	399.0	361.6	317.2	279.8	275.5
47.5°	1436.5	1288.7	940.0	670.2	456.4	496.5	444.9	396.1	355.9	312.8	305.7
50°	1966.1	1789.5	1156.7	724.7	569.7	654.4	561.1	479.3	433.4	401.8	397.5
52.5°	2576.0	2390.8	1316.0	825.2	707.5	849.6	741.9	647.2	586.9	586.9	595.6
55°	3284.9	3099.8	1443.7	964.4	876.8	1064.8	948.6	871.1	842.4	964.4	997.4
57.5°	3988.1	3752.7	1529.8	1106.4	1074.9	1317.4	1178.2	1112.2	1165.3	1526.9	1638.9
60°	4629.6	4240.7	1597.2	1241.3	1244.2	1518.3	1415.0	1410.7	1492.5	1954.6	2096.7
62.5°	4999.8	4470.3	1592.9	1318.8	1343.2	1643.2	1557.1	1580.0	1625.9	2026.3	2134.0
65°	5253.8	4579.3	1559.9	1353.3	1384.9	1687.7	1580.0	1541.3	1511.1	1793.9	1897.2
67.5°	5078.8	4323.9	1485.3	1303.1	1359.0	1623.1	1481.0	1370.5	1311.7	1455.2	1525.5
70°	4253.6	3606.4	1314.5	1172.5	1224.1	1367.6	1231.3	1122.2	1060.5	1138.0	1171.0
72.5°	3221.8	2743.9	1185.4	1096.4	1073.4	1130.8	1001.7	879.7	842.4	892.6	899.8
75°	2565.9	2146.9	1090.7	991.6	901.2	957.2	799.3	651.5	630.0	630.0	618.5
77.5°	1924.4	1591.5	929.9	772.1	664.4	756.3	595.6	453.5	424.8	419.0	403.3
80°	1290.1	1083.5	625.7	512.3	477.9	561.1	423.3	332.9	334.4	332.9	314.3
82.5°	901.2	836.7	508.0	446.3	409.0	442.0	383.2	320.0	317.2	320.0	299.9
85°	799.3	766.3	492.2	460.7	421.9	426.2	367.4	302.8	304.2	310.0	292.8
87.5°	767.8	730.5	493.7	444.9	411.9	394.6	332.9	279.8	288.5	294.2	279.8
90°	691.7	654.4	453.5	401.8	367.4	343.0	294.2	265.5	277.0	282.7	269.8
92.5°	599.9	561.1	377.4	354.5	345.9	345.9	308.5	282.7	289.9	292.8	281.3
95°	516.6	479.3	335.8	311.4	304.2	305.7	275.5	254.0	258.3	256.9	248.3
97.5°	417.6	394.6	292.8	277.0	269.8	266.9	246.8	231.0	239.7	245.4	238.2
100°	368.8	357.3	282.7	271.2	261.2	259.7	242.5	232.5	239.7	248.3	242.5
102.5°	344.4	335.8	269.8	254.0	246.8	244.0	232.5	221.0	228.2	236.8	232.5
105°	324.3	311.4	258.3	244.0	233.9	232.5	221.0	206.7	211.0	222.4	219.6
107.5°	307.1	298.5	256.9	241.1	228.2	228.2	215.3	203.8	205.2	209.5	209.5
110°	321.5	311.4	266.9	255.4	238.2	232.5	229.6	221.0	213.8	211.0	211.0



REPORT NUMBER: P856138  
 CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	397.5	378.9	334.4	321.5	292.8	272.7	254.0	236.8	225.3	221.0	218.1
115°	469.3	447.7	394.6	361.6	322.9	292.8	266.9	248.3	231.0	225.3	231.0
117.5°	483.6	426.2	344.4	317.2	294.2	275.5	261.2	246.8	233.9	238.2	233.9
120°	479.3	409.0	347.3	386.0	347.3	304.2	269.8	269.8	265.5	244.0	248.3
122.5°	737.6	688.8	614.2	591.3	482.2	440.6	376.0	321.5	268.4	238.2	223.9
125°	1010.3	962.9	848.1	760.6	651.5	536.7	411.9	317.2	248.3	219.6	223.9
127.5°	1016.0	973.0	863.9	716.1	572.6	459.2	343.0	281.3	242.5	223.9	221.0
130°	792.2	750.5	657.3	543.9	453.5	378.9	308.5	254.0	219.6	205.2	200.9
132.5°	686.0	648.7	562.6	459.2	393.2	334.4	275.5	221.0	198.0	188.0	189.4
135°	576.9	532.4	450.6	394.6	353.0	299.9	246.8	202.3	190.9	188.0	186.6
137.5°	489.4	457.8	400.4	357.3	317.2	269.8	216.7	189.4	185.1	188.0	185.1
140°	416.2	390.3	358.8	321.5	272.7	228.2	193.7	180.8	188.0	189.4	188.0
142.5°	358.8	332.9	299.9	249.7	226.7	206.7	198.0	188.0	188.0	186.6	185.1
145°	299.9	265.5	249.7	256.9	242.5	222.4	206.7	186.6	179.4	179.4	180.8
147.5°	344.4	308.5	288.5	272.7	245.4	216.7	192.3	173.6	170.8	176.5	175.1
150°	297.1	264.1	249.7	228.2	211.0	189.4	173.6	166.5	167.9	175.1	175.1
152.5°	236.8	213.8	205.2	199.5	190.9	178.0	169.3	166.5	169.3	172.2	172.2
155°	222.4	209.5	199.5	195.2	185.1	175.1	167.9	166.5	169.3	172.2	175.1
157.5°	208.1	203.8	190.9	186.6	178.0	173.6	169.3	169.3	170.8	173.6	176.5
160°	198.0	196.6	185.1	183.7	178.0	175.1	175.1	176.5	178.0	178.0	178.0
162.5°	192.3	192.3	188.0	185.1	183.7	182.3	186.6	188.0	186.6	186.6	186.6
165°	193.7	195.2	190.9	188.0	186.6	189.4	196.6	196.6	193.7	192.3	190.9
167.5°	195.2	196.6	193.7	192.3	192.3	195.2	198.0	196.6	195.2	193.7	192.3
170°	193.7	195.2	195.2	196.6	196.6	196.6	199.5	199.5	196.6	195.2	195.2
172.5°	196.6	198.0	199.5	200.9	202.3	200.9	202.3	202.3	202.3	202.3	203.8
175°	205.2	205.2	206.7	206.7	205.2	206.7	206.7	206.7	208.1	211.0	211.0
177.5°	209.5	209.5	208.1	208.1	206.7	208.1	208.1	208.1	208.1	209.5	208.1
180°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

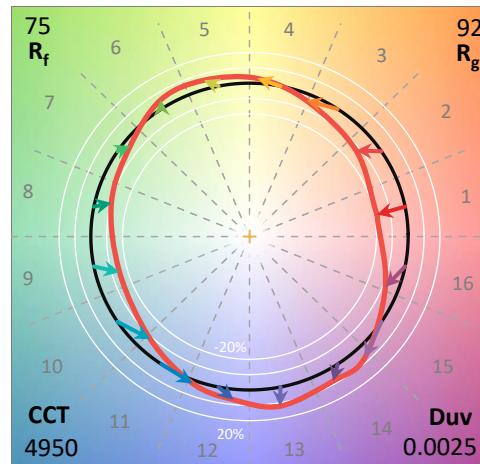
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-5  
 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-100-750-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 4950  
 CIE u': 0.2102  
 CIE v': 0.4882  
 Duv: 0.0025  
 CIE x: 0.3471  
 CIE y: 0.3583  
 CIE z: 0.2946  
 Peak Wavelength (nm): 452  
 Dominant Wavelength (nm): 571  
 Purity: 11.64963  
 Rf: 74.8  
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



**Test Conditions**

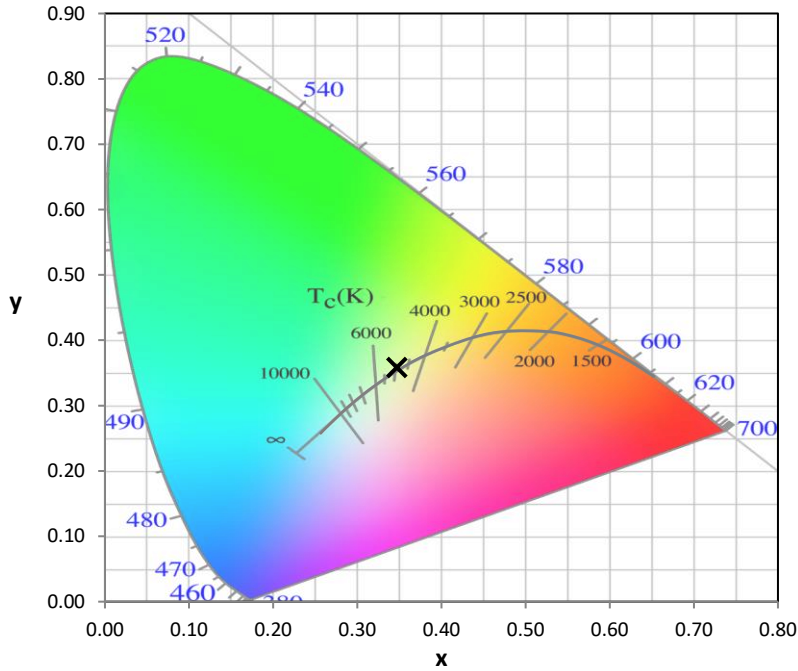
Stabilization Time: 0.803355M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

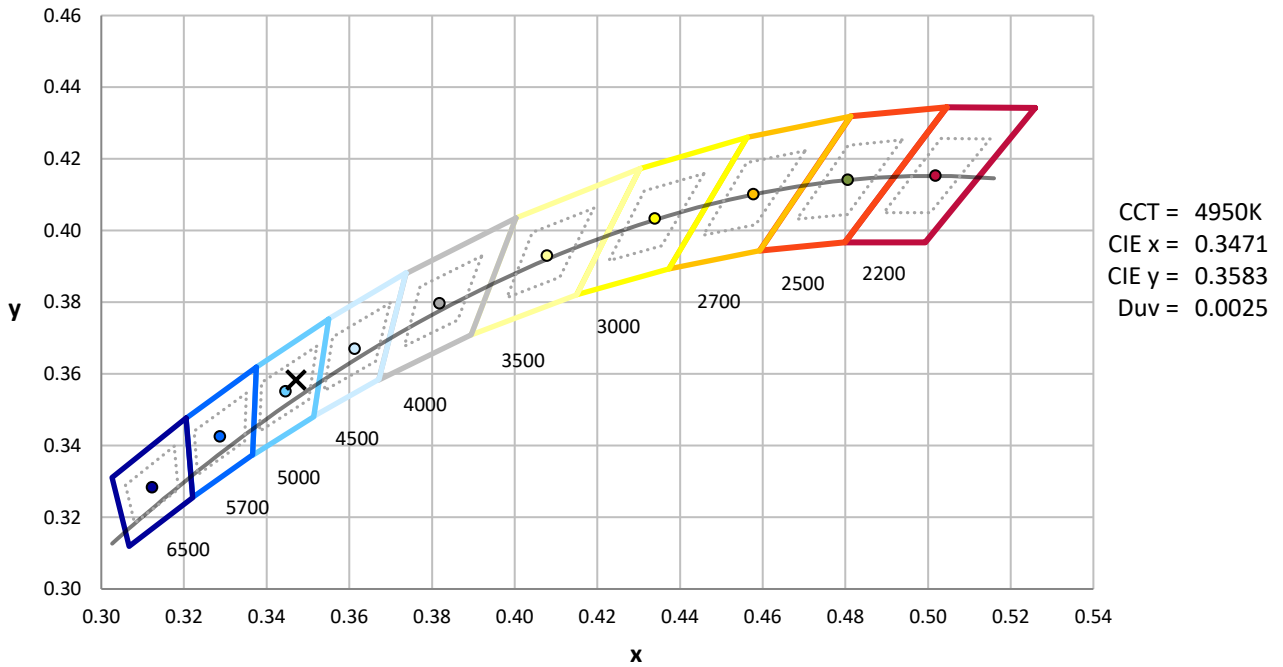
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



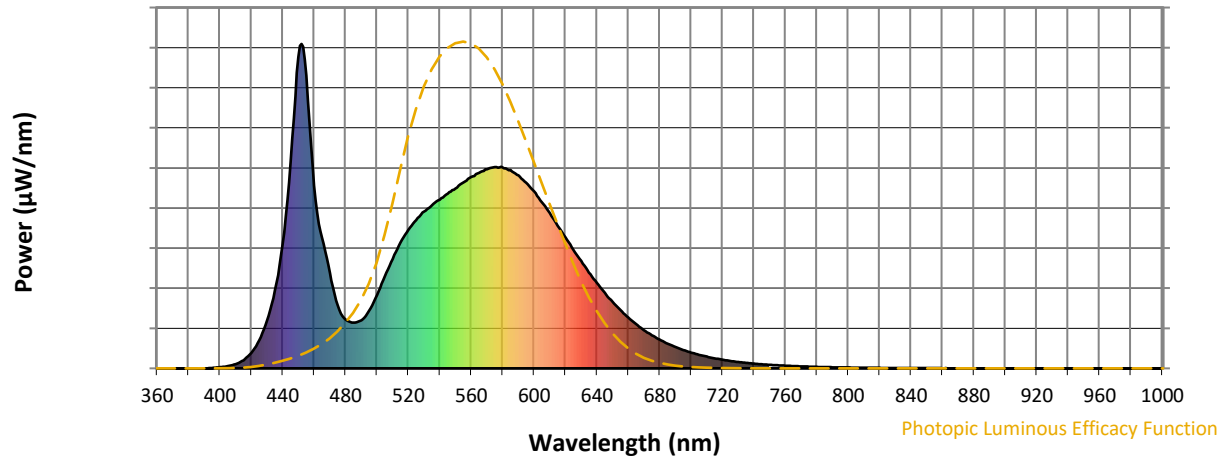
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

**Photopic Flux vs. Wavelength**

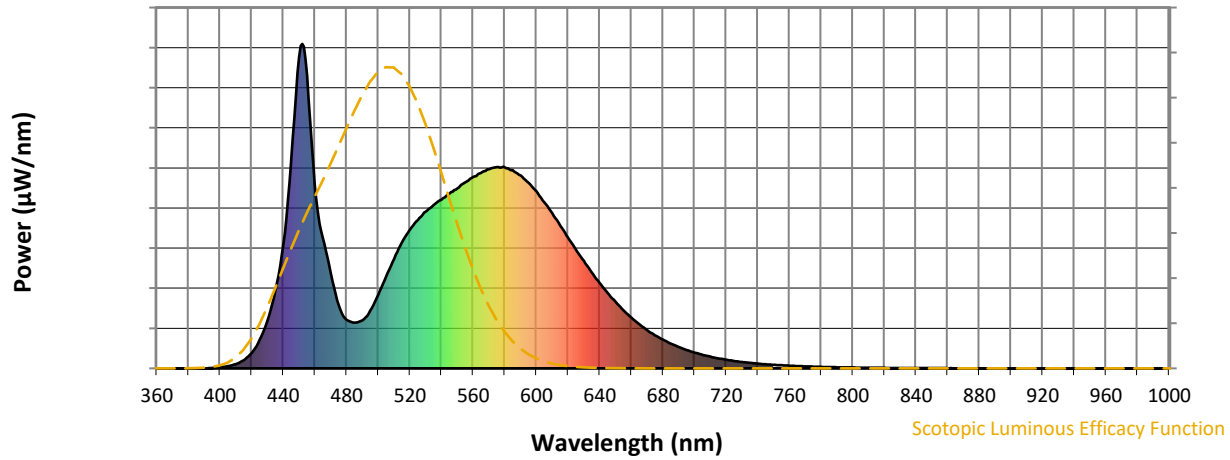


**Photopic Lumens: NR**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

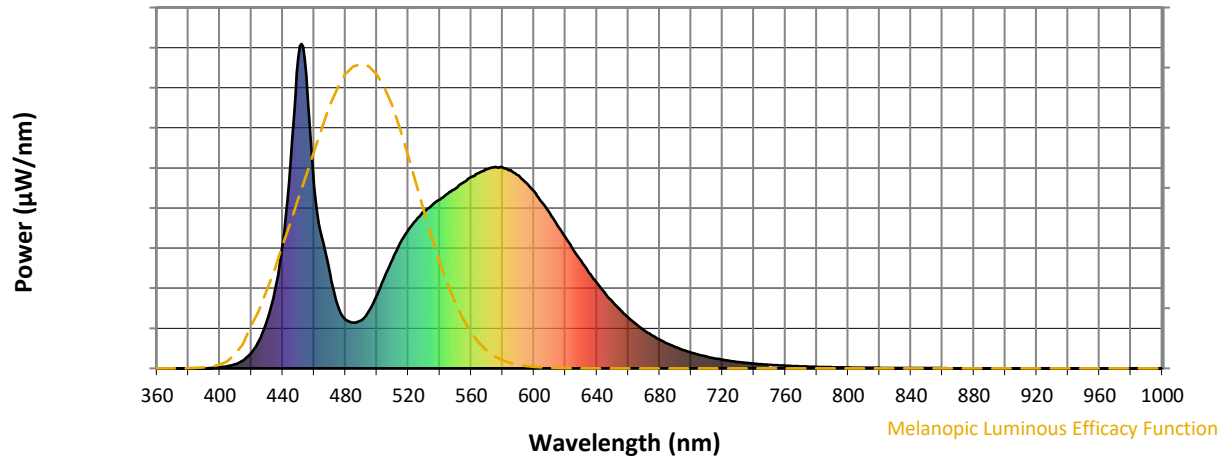
**S/P: 1.8**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			



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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

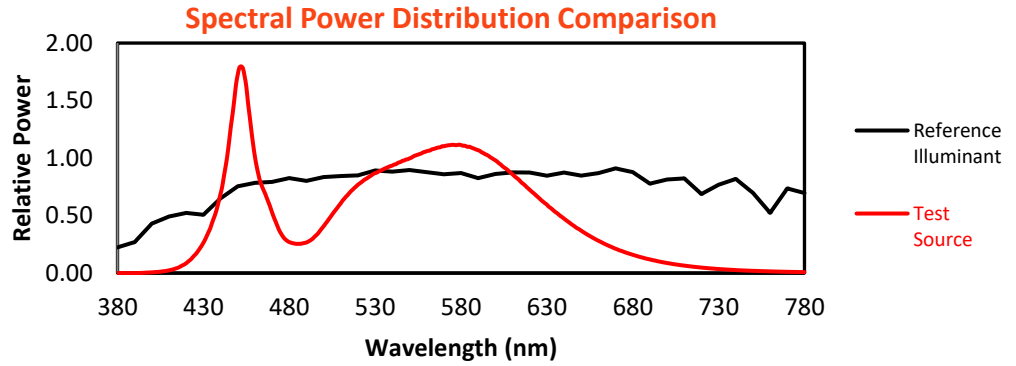
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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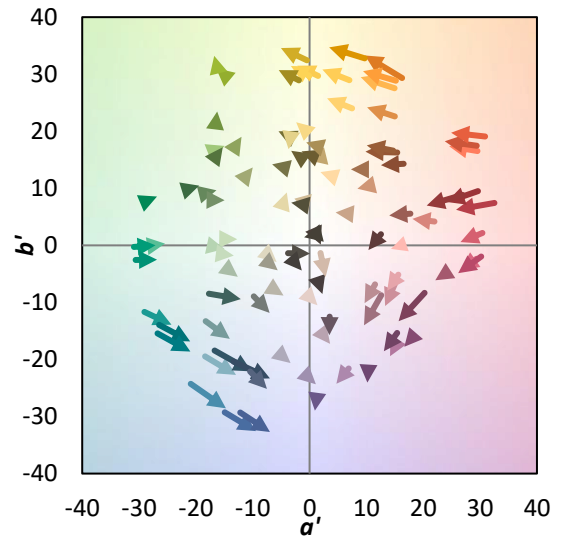
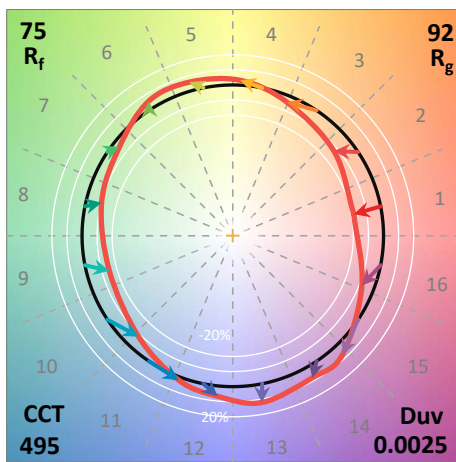
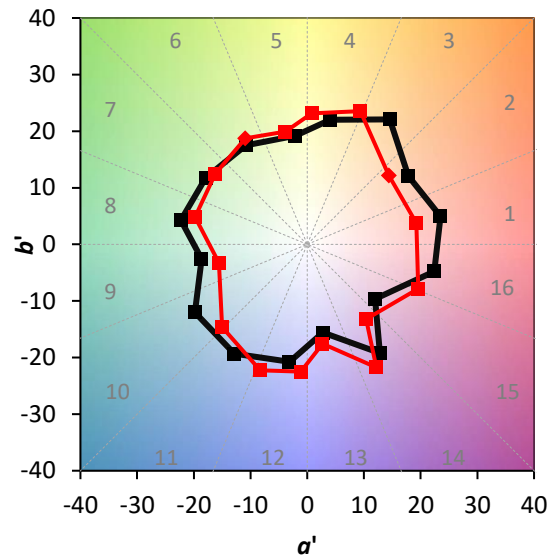
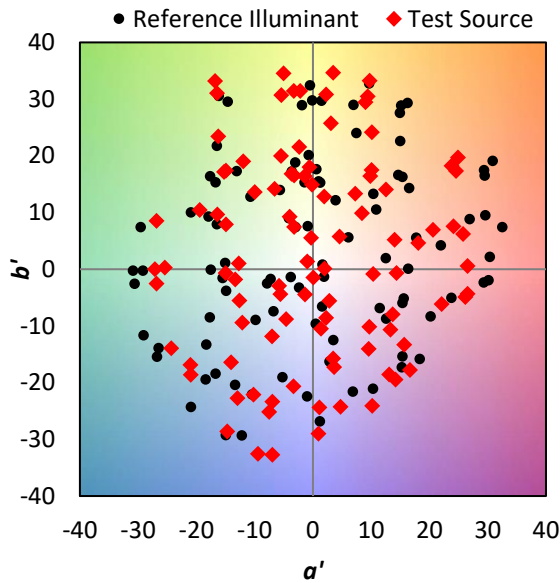
TM-30-18

**Summary**

$R_f = 74.8$   
 $R_g = 92.4$   
 CIE  $R_a = 73.0$   
 $R_9 = -35.4$



**Color Vector Graphics**

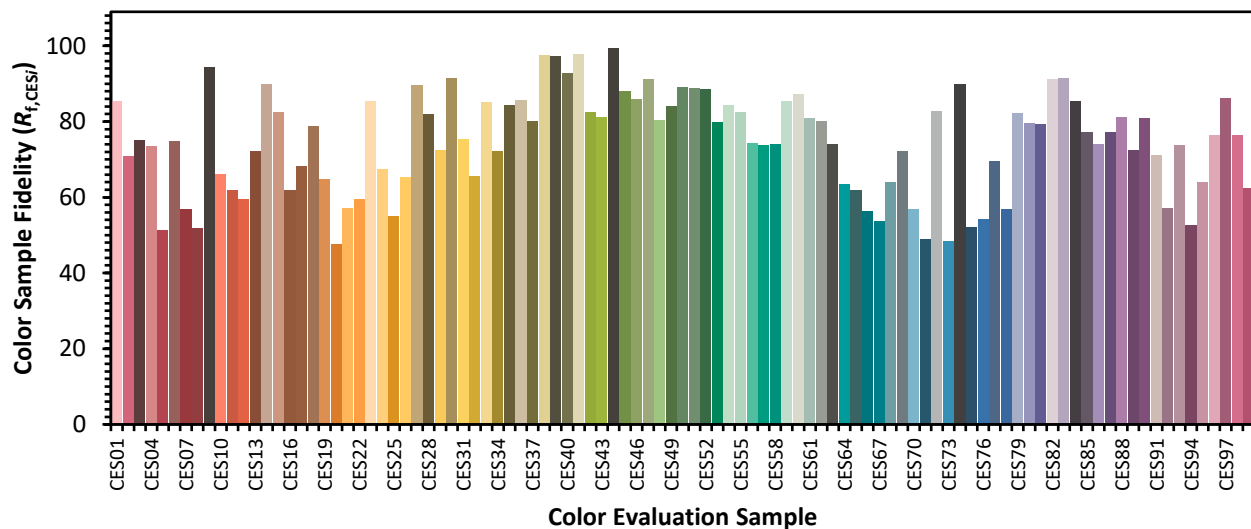


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TM-30-18

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

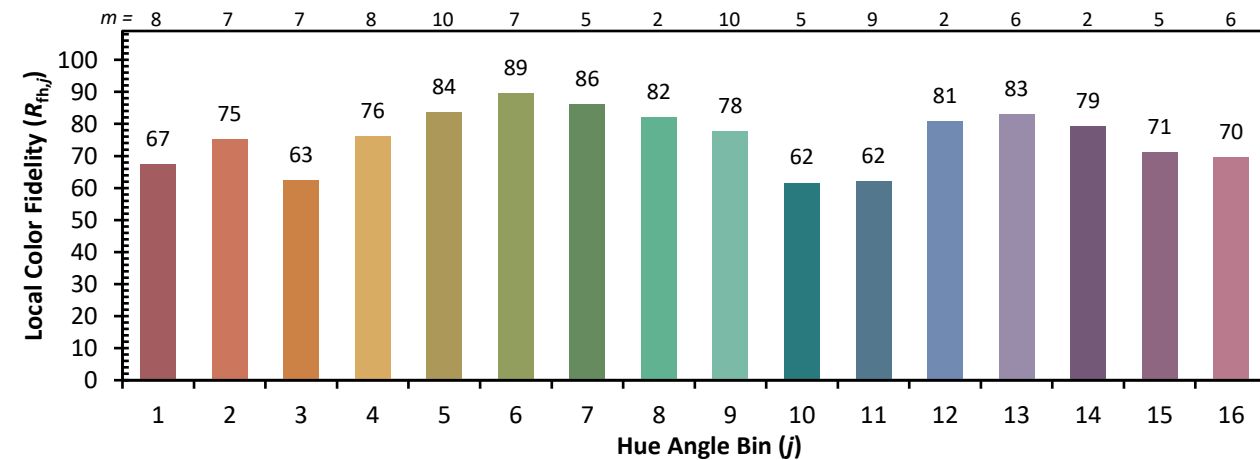
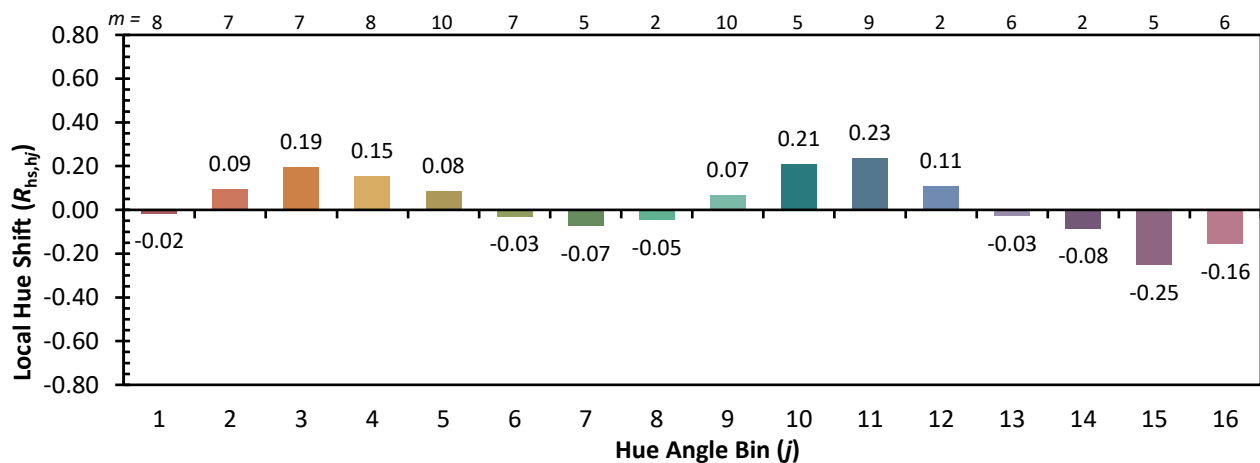
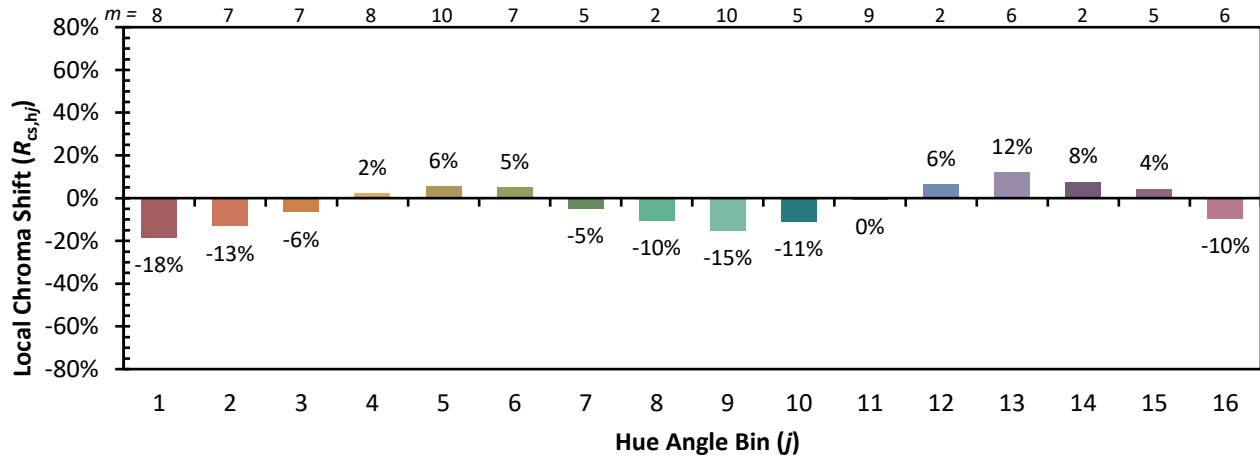
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



REPORT NUMBER: SP1-2406-133-5

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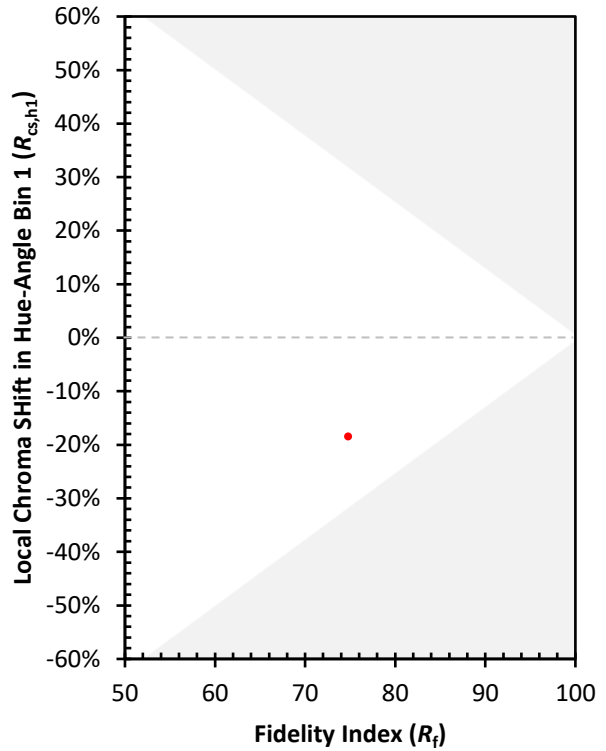
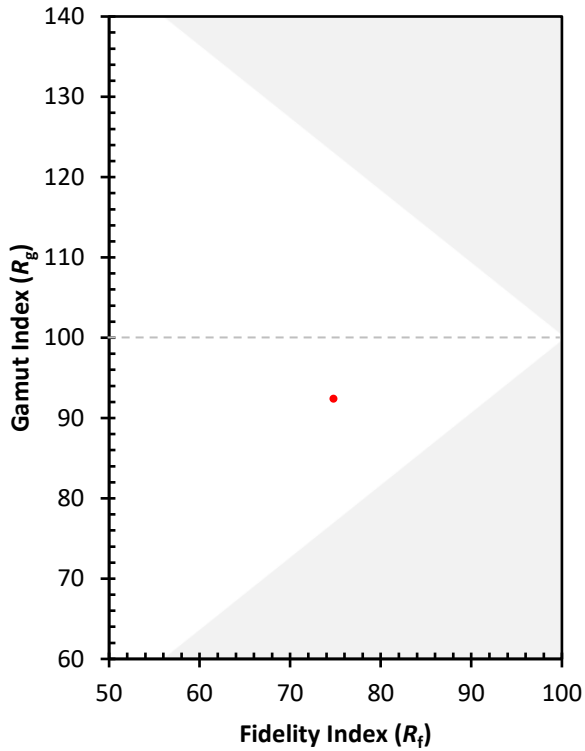
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)