

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: P856137

Luminaire Tested: **FFX-CLB-100-750-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856137  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-100-750-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

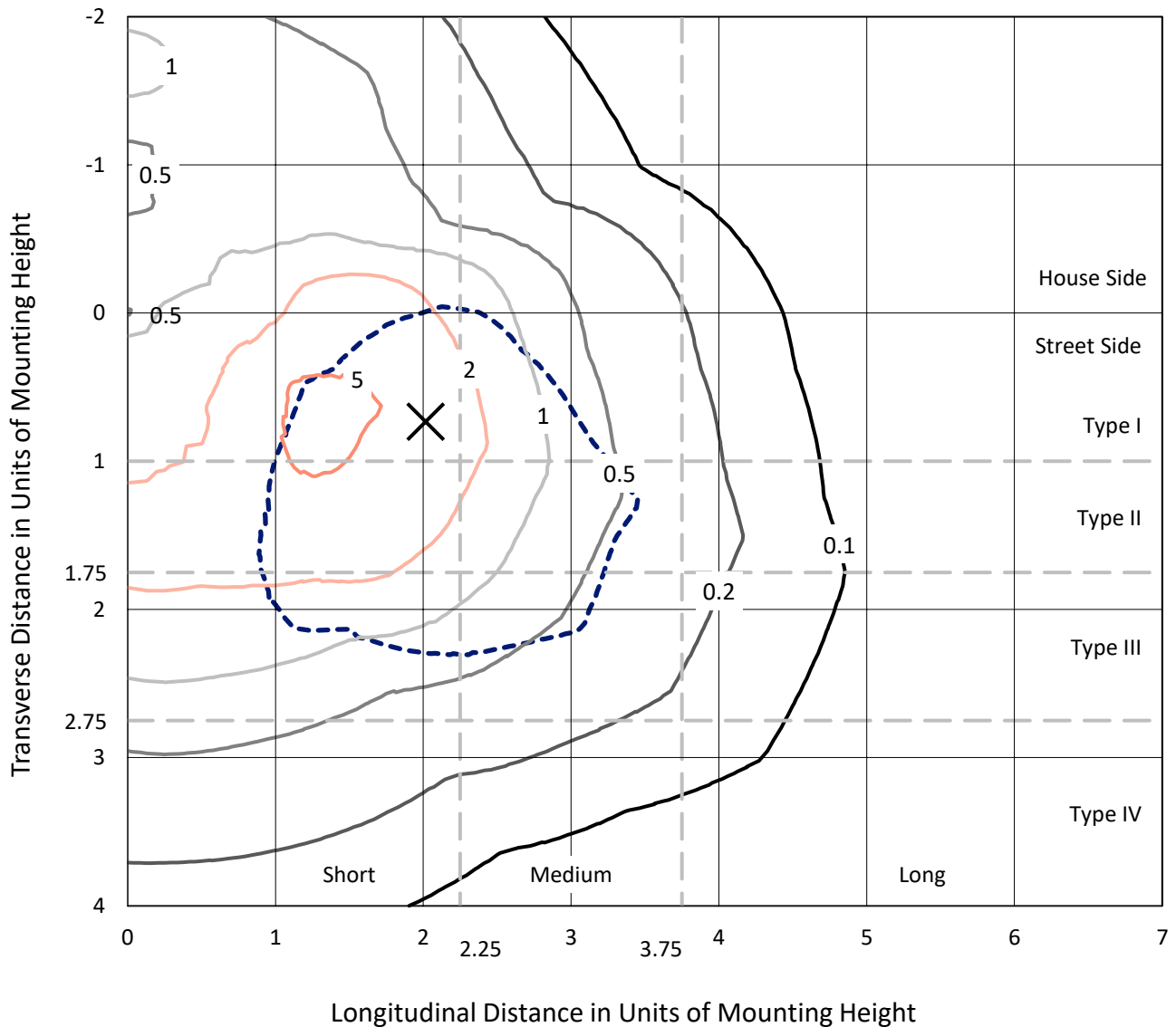
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14861.6 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): 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

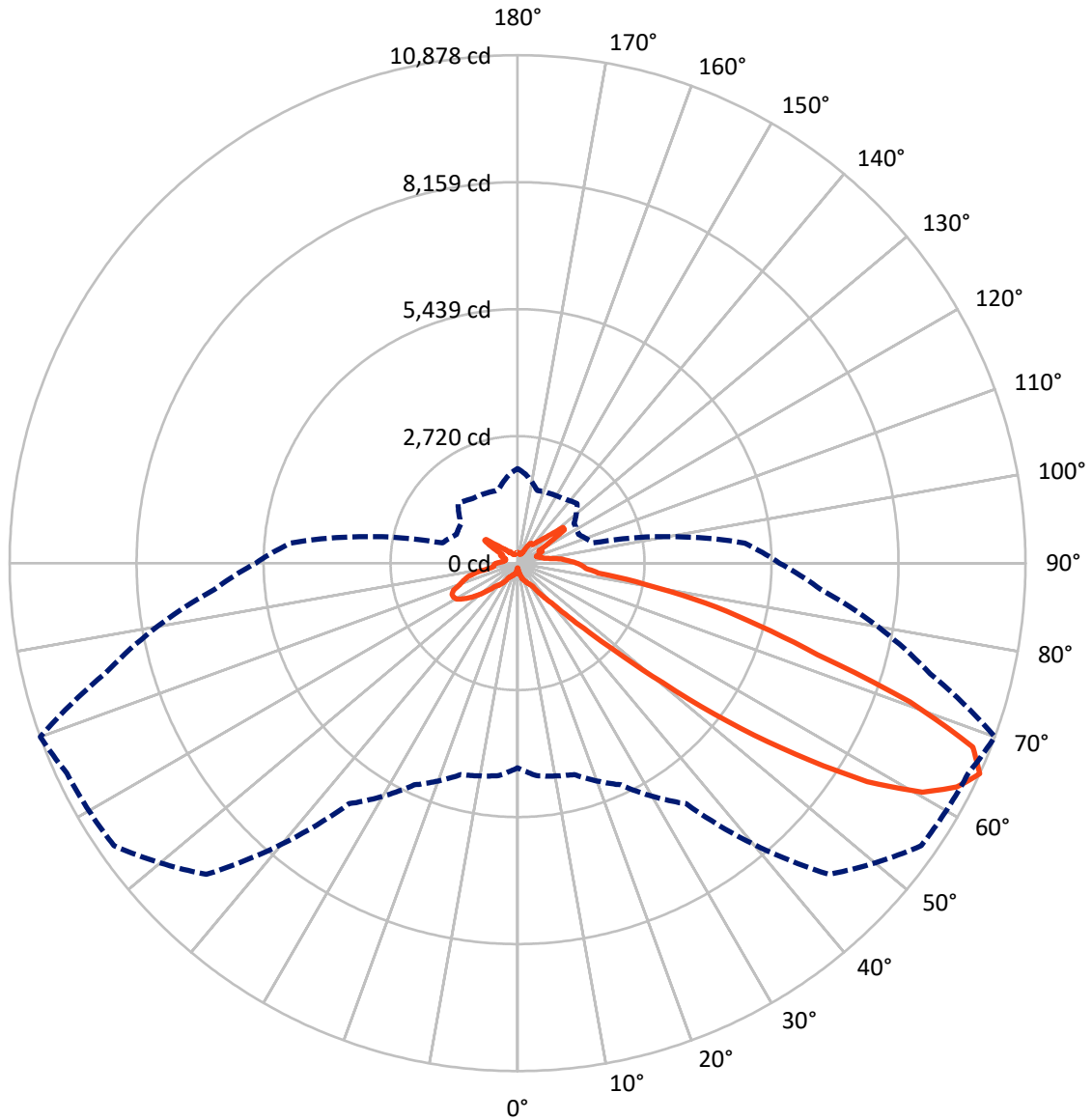
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 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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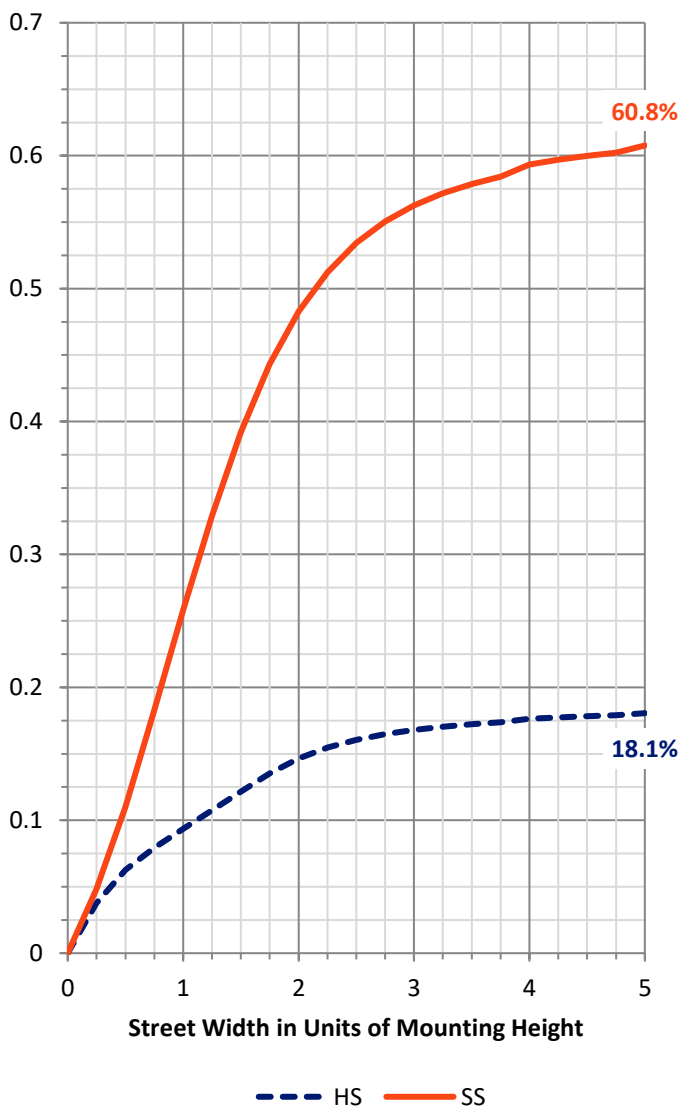
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2799.5	998.7	3798.2
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	9335.3	1728.2	11063.4
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	12134.7	2726.9	14861.6
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	0.1
10°-20°	77.9	0.5
20°-30°	165.3	1.1
30°-40°	336.6	2.3
40°-50°	855.8	5.8
50°-60°	2750.4	18.5
60°-70°	4488.6	30.2
70°-80°	2555.3	17.2
80°-90°	889.1	6.0
90°-100°	553.3	3.7
100°-110°	352.4	2.4
110°-120°	387.7	2.6
120°-130°	655.6	4.4
130°-140°	386.5	2.6
140°-150°	208.0	1.4
150°-160°	105.1	0.7
160°-170°	57.5	0.4
170°-180°	20.7	0.1
0°-90°	12134.7	81.7
0°-180°	14861.6	100.0

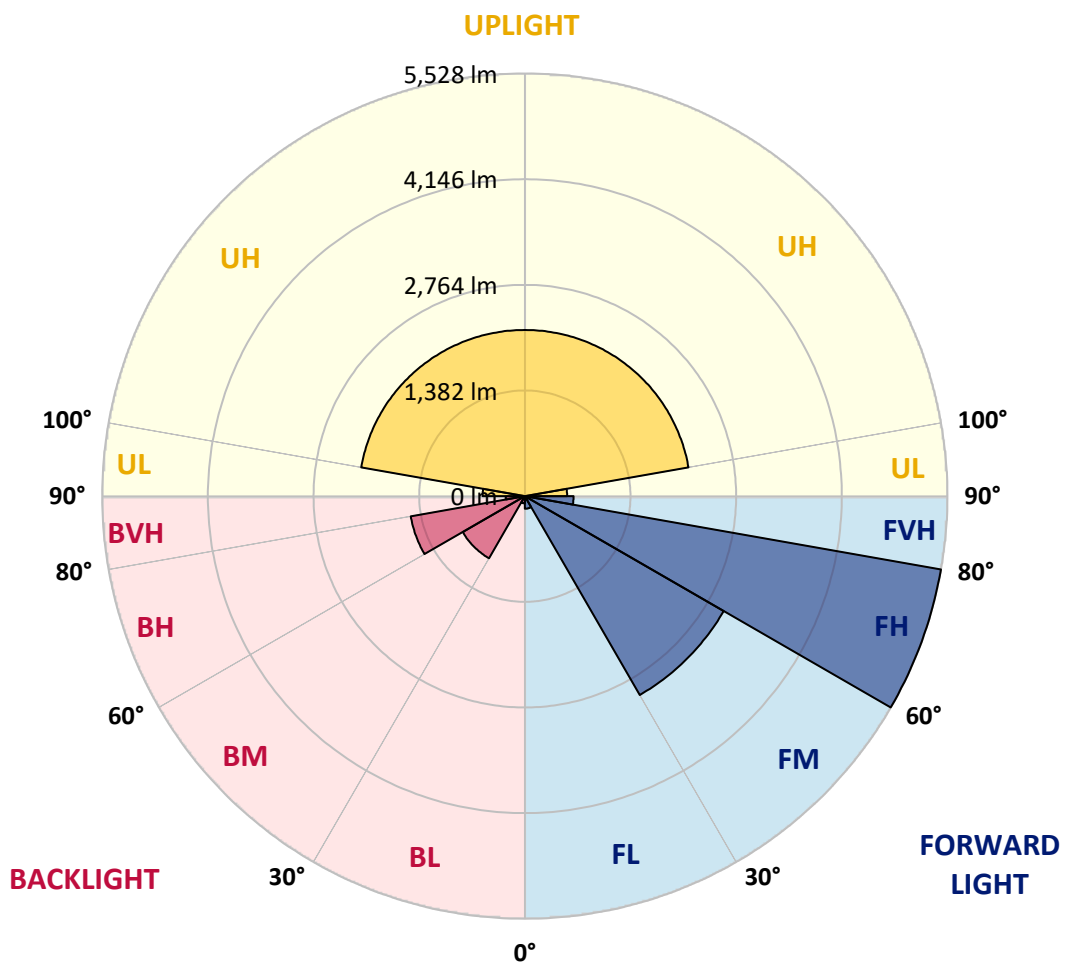


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.9	1.1			
FM (30°-60°)	3004.5	20.2			
FH (60°-80°)	5528.3	37.2			G3/7500
FVH (80°-90°)	637.5	4.3			G4/750
BL (0°-30°)	94.1	0.6	B0/110		
BM (30°-60°)	938.3	6.3	B1/1000		
BH (60°-80°)	1515.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	251.6	1.7			G3/500
UL (90°-100°)	553.3	3.7		U4/1000	
UH (100°-180°)	2173.6	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°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	117.9	117.9	121.0	121.0	121.0	117.9	116.4	113.3	113.3	113.3	111.8
5°	153.1	151.6	153.1	157.7	159.3	154.7	151.6	147.0	147.0	145.5	145.5
7.5°	206.8	205.2	202.2	197.6	199.1	203.7	209.8	197.6	194.5	186.8	183.8
10°	258.8	255.8	258.8	251.2	243.5	232.8	238.9	235.8	229.7	222.1	215.9
12.5°	315.5	317.0	323.1	317.0	304.8	287.9	284.9	277.2	271.1	269.5	260.4
15°	373.7	375.2	381.3	379.8	367.6	344.6	335.4	327.7	324.7	315.5	295.6
17.5°	404.3	405.8	407.4	408.9	401.2	382.9	369.1	355.3	350.7	347.6	323.1
20°	419.6	416.6	419.6	425.8	431.9	416.6	402.8	395.1	390.5	379.8	347.6
22.5°	444.1	441.1	439.5	444.1	462.5	451.8	438.0	430.3	425.8	412.0	363.0
25°	470.2	467.1	471.7	468.6	491.6	487.0	473.2	465.6	459.4	442.6	385.9
27.5°	499.3	496.2	500.8	497.7	516.1	519.2	510.0	503.9	494.7	470.2	402.8
30°	523.8	520.7	525.3	523.8	542.1	552.9	548.3	546.7	533.0	503.9	431.9
32.5°	543.7	542.1	552.9	557.5	562.1	586.6	583.5	597.3	582.0	546.7	474.8
35°	589.6	594.2	623.3	653.9	658.5	707.5	713.7	764.2	748.9	703.0	615.7
37.5°	911.2	894.4	865.3	836.2	825.5	920.4	934.2	984.7	946.5	860.7	719.8
40°	971.0	943.4	909.7	886.7	889.8	1059.8	1030.7	1222.1	1113.4	984.7	879.1
42.5°	922.0	912.8	1030.7	1085.8	1046.0	1294.1	1245.1	1609.6	1485.5	1170.1	1061.3
45°	1156.3	1137.9	1179.2	1234.4	1246.6	1703.0	1669.3	2050.7	2000.1	1462.6	1361.5
47.5°	1323.2	1306.4	1361.5	1548.3	1709.1	2202.3	2386.1	2935.9	2758.2	2078.2	1843.9
50°	1824.0	1820.9	1990.9	2213.0	2494.8	3203.9	3692.4	4309.6	4023.2	2942.0	2528.5
52.5°	2318.7	2324.8	2533.1	2926.7	3219.2	4471.9	5165.7	5597.6	5635.9	3836.4	3277.4
55°	2692.4	2730.6	2981.8	3641.9	4084.5	5600.6	6501.2	6836.6	7219.4	5184.1	4056.9
57.5°	3421.3	3479.5	3718.4	4364.7	4983.5	7006.5	8222.6	8259.3	8830.6	6678.8	4893.1
60°	4058.4	4194.7	4279.0	4865.5	5709.4	8349.7	9501.3	9427.8	9963.8	7917.8	5741.5
62.5°	4256.0	4412.2	4491.8	5116.7	6283.7	9103.2	10098.6	10190.5	10559.6	8787.7	6260.7
65°	4384.6	4568.4	4687.9	5240.7	6289.8	9424.8	10551.9	10650.0	10878.1	9152.2	6519.5
67.5°	4318.8	4553.1	4706.3	5197.9	5959.0	9176.7	10461.6	10273.2	10515.2	8847.4	6230.1
70°	3770.5	4015.6	4170.2	4536.3	4981.9	7715.6	9018.9	8703.4	8916.3	7384.8	5122.8
72.5°	3072.2	3193.1	3288.1	3488.7	3755.2	5691.0	6853.4	6591.5	6718.6	5556.2	3839.4
75°	2523.9	2560.6	2678.6	2793.4	2837.8	4162.6	5429.1	5190.2	5338.8	4230.0	3055.3
77.5°	1833.2	1854.6	2023.1	2041.5	2030.8	2856.2	4279.0	4069.2	4116.6	3144.1	2280.4
80°	1064.4	1105.7	1326.3	1315.5	1297.2	1759.7	3012.4	2928.2	2781.2	2134.9	1579.0
82.5°	750.4	791.8	892.9	915.8	903.6	1263.5	1955.7	1900.6	1741.3	1485.5	1091.9
85°	790.2	794.8	799.4	810.2	790.2	1127.2	1497.8	1470.2	1471.8	1228.3	900.5
87.5°	779.5	797.9	805.6	810.2	790.2	1070.5	1392.1	1356.9	1373.7	1167.0	874.5
90°	684.6	718.3	721.3	729.0	718.3	955.6	1249.7	1216.0	1237.4	1052.1	796.4
92.5°	559.0	577.4	598.8	627.9	615.7	817.8	1062.9	1038.3	1064.4	911.2	699.9
95°	529.9	549.8	563.6	583.5	565.1	745.8	960.2	911.2	932.7	797.9	603.4
97.5°	438.0	454.9	467.1	474.8	461.0	588.1	736.6	703.0	701.4	617.2	482.4
100°	373.7	384.4	395.1	402.8	390.5	487.0	583.5	571.2	574.3	510.0	415.0
102.5°	355.3	361.4	378.3	379.8	366.0	444.1	525.3	520.7	526.8	471.7	389.0
105°	347.6	352.2	366.0	361.4	349.2	415.0	483.9	487.0	487.0	439.5	364.5
107.5°	324.7	332.3	347.6	340.0	333.9	382.9	445.7	434.9	438.0	408.9	346.1
110°	321.6	327.7	343.1	336.9	332.3	373.7	428.8	425.8	430.3	404.3	355.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	399.7	393.6	405.8	393.6	401.2	436.5	494.7	488.5	502.3	493.1	444.1
115°	493.1	496.2	508.5	483.9	491.6	526.8	559.0	569.7	582.0	568.2	517.6
117.5°	456.4	482.4	467.1	464.0	457.9	485.5	480.9	508.5	520.7	510.0	490.1
120°	488.5	520.7	476.3	453.3	444.1	513.0	546.7	545.2	536.0	514.6	473.2
122.5°	730.5	735.1	738.2	807.1	782.6	850.0	869.9	843.8	843.8	871.4	787.2
125°	1139.4	1144.0	1141.0	1171.6	1154.7	1219.1	1245.1	1243.6	1228.3	1214.5	1131.8
127.5°	1151.7	1151.7	1141.0	1124.1	1139.4	1202.2	1203.7	1261.9	1242.0	1205.3	1128.7
130°	804.0	810.2	848.4	860.7	882.1	895.9	880.6	931.1	940.3	934.2	882.1
132.5°	666.2	676.9	718.3	733.6	747.4	748.9	742.8	782.6	791.8	791.8	768.8
135°	575.8	588.1	592.7	585.0	604.9	620.3	632.5	664.7	661.6	655.5	635.6
137.5°	502.3	506.9	493.1	476.3	487.0	531.4	555.9	589.6	588.1	577.4	543.7
140°	424.2	425.8	418.1	410.4	421.2	459.4	482.4	519.2	514.6	506.9	467.1
142.5°	321.6	326.2	346.1	361.4	387.5	467.1	454.9	487.0	510.0	528.4	436.5
145°	338.5	332.3	329.3	346.1	379.8	494.7	459.4	500.8	511.5	523.8	418.1
147.5°	390.5	393.6	389.0	378.3	424.2	461.0	441.1	477.8	483.9	480.9	438.0
150°	306.3	310.9	312.4	307.8	364.5	363.0	343.1	370.6	373.7	373.7	344.6
152.5°	249.6	251.2	248.1	245.0	281.8	275.7	266.5	275.7	274.1	272.6	266.5
155°	237.4	237.4	234.3	235.8	260.4	254.2	248.1	254.2	251.2	246.6	240.4
157.5°	219.0	220.5	220.5	225.1	240.4	229.7	223.6	226.7	223.6	220.5	220.5
160°	206.8	206.8	208.3	214.4	223.6	212.9	208.3	209.8	208.3	205.2	206.8
162.5°	202.2	202.2	203.7	206.8	208.3	202.2	197.6	197.6	197.6	197.6	202.2
165°	199.1	199.1	199.1	200.6	200.6	196.0	194.5	196.0	197.6	199.1	205.2
167.5°	205.2	205.2	205.2	205.2	203.7	200.6	199.1	200.6	202.2	203.7	208.3
170°	214.4	212.9	212.9	211.3	209.8	206.8	205.2	203.7	203.7	205.2	206.8
172.5°	220.5	220.5	219.0	219.0	217.5	214.4	211.3	209.8	209.8	209.8	209.8
175°	228.2	228.2	228.2	228.2	226.7	223.6	222.1	219.0	219.0	219.0	219.0
177.5°	237.4	237.4	237.4	237.4	234.3	231.3	228.2	225.1	225.1	225.1	223.6
180°	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2.5°	110.3	108.7	104.1	102.6	101.1	98.0	95.0	93.4	91.9	91.9	93.4
5°	147.0	145.5	145.5	140.9	136.3	128.6	125.6	125.6	127.1	128.6	131.7
7.5°	185.3	188.4	191.4	183.8	170.0	151.6	140.9	144.0	151.6	157.7	157.7
10°	214.4	214.4	225.1	215.9	193.0	170.0	154.7	151.6	153.1	154.7	156.2
12.5°	255.8	255.8	249.6	225.1	202.2	179.2	166.9	163.9	163.9	157.7	156.2
15°	286.4	277.2	255.8	232.8	212.9	189.9	176.1	171.5	166.9	162.3	160.8
17.5°	304.8	287.9	258.8	237.4	217.5	199.1	185.3	176.1	171.5	173.1	173.1
20°	326.2	307.8	281.8	258.8	234.3	209.8	193.0	179.2	174.6	176.1	174.6
22.5°	343.1	324.7	298.6	272.6	246.6	220.5	200.6	183.8	177.7	179.2	179.2
25°	363.0	347.6	320.1	289.5	257.3	232.8	212.9	193.0	183.8	182.2	182.2
27.5°	382.9	372.2	343.1	306.3	272.6	243.5	223.6	200.6	189.9	185.3	185.3
30°	408.9	396.7	367.6	323.1	286.4	258.8	237.4	212.9	197.6	189.9	188.4
32.5°	450.3	436.5	401.2	353.8	301.7	274.1	251.2	223.6	203.7	194.5	193.0
35°	585.0	563.6	508.5	453.3	369.1	306.3	268.0	232.8	209.8	197.6	196.0
37.5°	669.3	617.2	543.7	506.9	415.0	375.2	323.1	266.5	219.0	203.7	200.6
40°	805.6	733.6	641.7	569.7	404.3	410.4	378.3	332.3	260.4	214.4	209.8
42.5°	920.4	830.1	690.7	597.3	405.8	428.8	404.3	366.0	312.4	254.2	245.0
45°	1134.8	1018.4	802.5	641.7	416.6	456.4	425.8	385.9	338.5	298.6	294.0
47.5°	1533.0	1375.3	1003.1	715.2	487.0	529.9	474.8	422.7	379.8	333.9	326.2
50°	2098.1	1909.8	1234.4	773.4	608.0	698.4	598.8	511.5	462.5	428.8	424.2
52.5°	2749.0	2551.5	1404.4	880.6	755.0	906.6	791.8	690.7	626.4	626.4	635.6
55°	3505.6	3308.0	1540.7	1029.2	935.7	1136.4	1012.3	929.6	899.0	1029.2	1064.4
57.5°	4256.0	4004.8	1632.6	1180.8	1147.1	1405.9	1257.4	1186.9	1243.6	1629.5	1749.0
60°	4940.6	4525.5	1704.5	1324.7	1327.8	1620.3	1510.0	1505.5	1592.7	2085.9	2237.5
62.5°	5335.7	4770.6	1699.9	1407.4	1433.5	1753.6	1661.7	1686.2	1735.2	2162.5	2277.3
65°	5606.8	4887.0	1664.7	1444.2	1477.9	1801.0	1686.2	1644.8	1612.7	1914.4	2024.6
67.5°	5419.9	4614.4	1585.1	1390.6	1450.3	1732.1	1580.5	1462.6	1399.8	1552.9	1628.0
70°	4539.3	3848.6	1402.8	1251.2	1306.4	1459.5	1314.0	1197.6	1131.8	1214.5	1249.7
72.5°	3438.2	2928.2	1265.0	1170.1	1145.6	1206.8	1069.0	938.8	899.0	952.6	960.2
75°	2738.3	2291.1	1163.9	1058.3	961.8	1021.5	853.0	695.3	672.3	672.3	660.1
77.5°	2053.7	1698.4	992.4	823.9	709.1	807.1	635.6	483.9	453.3	447.2	430.3
80°	1376.8	1156.3	667.7	546.7	510.0	598.8	451.8	355.3	356.8	355.3	335.4
82.5°	961.8	892.9	542.1	476.3	436.5	471.7	408.9	341.5	338.5	341.5	320.1
85°	853.0	817.8	525.3	491.6	450.3	454.9	392.1	323.1	324.7	330.8	312.4
87.5°	819.3	779.5	526.8	474.8	439.5	421.2	355.3	298.6	307.8	314.0	298.6
90°	738.2	698.4	483.9	428.8	392.1	366.0	314.0	283.3	295.6	301.7	287.9
92.5°	640.2	598.8	402.8	378.3	369.1	369.1	329.3	301.7	309.4	312.4	300.2
95°	551.3	511.5	358.4	332.3	324.7	326.2	294.0	271.1	275.7	274.1	264.9
97.5°	445.7	421.2	312.4	295.6	287.9	284.9	263.4	246.6	255.8	261.9	254.2
100°	393.6	381.3	301.7	289.5	278.7	277.2	258.8	248.1	255.8	264.9	258.8
102.5°	367.6	358.4	287.9	271.1	263.4	260.4	248.1	235.8	243.5	252.7	248.1
105°	346.1	332.3	275.7	260.4	249.6	248.1	235.8	220.5	225.1	237.4	234.3
107.5°	327.7	318.5	274.1	257.3	243.5	243.5	229.7	217.5	219.0	223.6	223.6
110°	343.1	332.3	284.9	272.6	254.2	248.1	245.0	235.8	228.2	225.1	225.1



REPORT NUMBER: P856137  
 CATALOG NUMBER: FFX-CLB-100-750-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	424.2	404.3	356.8	343.1	312.4	291.0	271.1	252.7	240.4	235.8	232.8
115°	500.8	477.8	421.2	385.9	344.6	312.4	284.9	264.9	246.6	240.4	246.6
117.5°	516.1	454.9	367.6	338.5	314.0	294.0	278.7	263.4	249.6	254.2	249.6
120°	511.5	436.5	370.6	412.0	370.6	324.7	287.9	287.9	283.3	260.4	264.9
122.5°	787.2	735.1	655.5	631.0	514.6	470.2	401.2	343.1	286.4	254.2	238.9
125°	1078.2	1027.6	905.1	811.7	695.3	572.8	439.5	338.5	264.9	234.3	238.9
127.5°	1084.3	1038.3	922.0	764.2	611.1	490.1	366.0	300.2	258.8	238.9	235.8
130°	845.4	801.0	701.4	580.4	483.9	404.3	329.3	271.1	234.3	219.0	214.4
132.5°	732.1	692.2	600.3	490.1	419.6	356.8	294.0	235.8	211.3	200.6	202.2
135°	615.7	568.2	480.9	421.2	376.7	320.1	263.4	215.9	203.7	200.6	199.1
137.5°	522.2	488.5	427.3	381.3	338.5	287.9	231.3	202.2	197.6	200.6	197.6
140°	444.1	416.6	382.9	343.1	291.0	243.5	206.8	193.0	200.6	202.2	200.6
142.5°	382.9	355.3	320.1	266.5	242.0	220.5	211.3	200.6	200.6	199.1	197.6
145°	320.1	283.3	266.5	274.1	258.8	237.4	220.5	199.1	191.4	191.4	193.0
147.5°	367.6	329.3	307.8	291.0	261.9	231.3	205.2	185.3	182.2	188.4	186.8
150°	317.0	281.8	266.5	243.5	225.1	202.2	185.3	177.7	179.2	186.8	186.8
152.5°	252.7	228.2	219.0	212.9	203.7	189.9	180.7	177.7	180.7	183.8	183.8
155°	237.4	223.6	212.9	208.3	197.6	186.8	179.2	177.7	180.7	183.8	186.8
157.5°	222.1	217.5	203.7	199.1	189.9	185.3	180.7	180.7	182.2	185.3	188.4
160°	211.3	209.8	197.6	196.0	189.9	186.8	186.8	188.4	189.9	189.9	189.9
162.5°	205.2	205.2	200.6	197.6	196.0	194.5	199.1	200.6	199.1	199.1	199.1
165°	206.8	208.3	203.7	200.6	199.1	202.2	209.8	209.8	206.8	205.2	203.7
167.5°	208.3	209.8	206.8	205.2	205.2	208.3	211.3	209.8	208.3	206.8	205.2
170°	206.8	208.3	208.3	209.8	209.8	209.8	212.9	212.9	209.8	208.3	208.3
172.5°	209.8	211.3	212.9	214.4	215.9	214.4	215.9	215.9	215.9	215.9	217.5
175°	219.0	219.0	220.5	220.5	219.0	220.5	220.5	220.5	222.1	225.1	225.1
177.5°	223.6	223.6	222.1	222.1	220.5	222.1	222.1	222.1	222.1	223.6	222.1
180°	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7

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: SP1-2406-133-5

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.

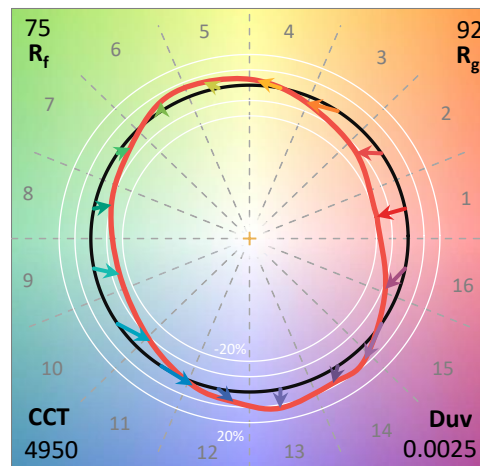
**Test Information**

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**

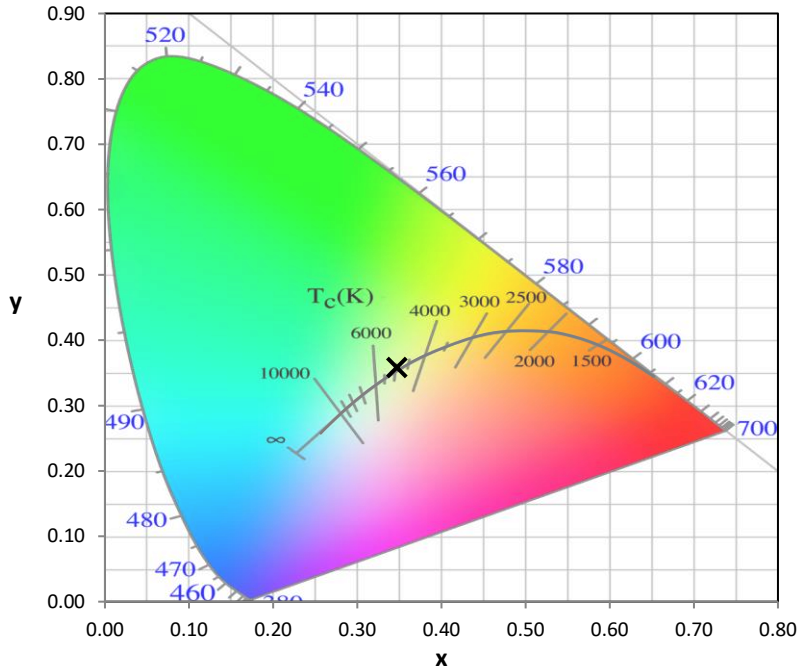
Stabilization Time: 0.803355M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

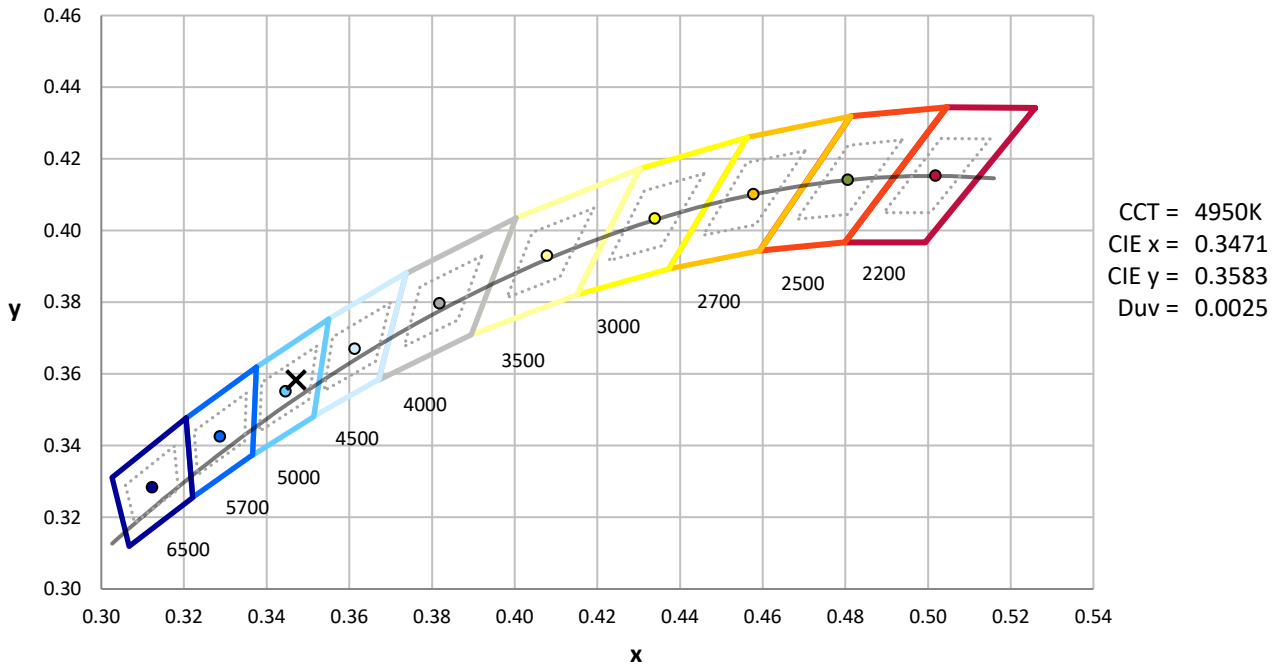
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



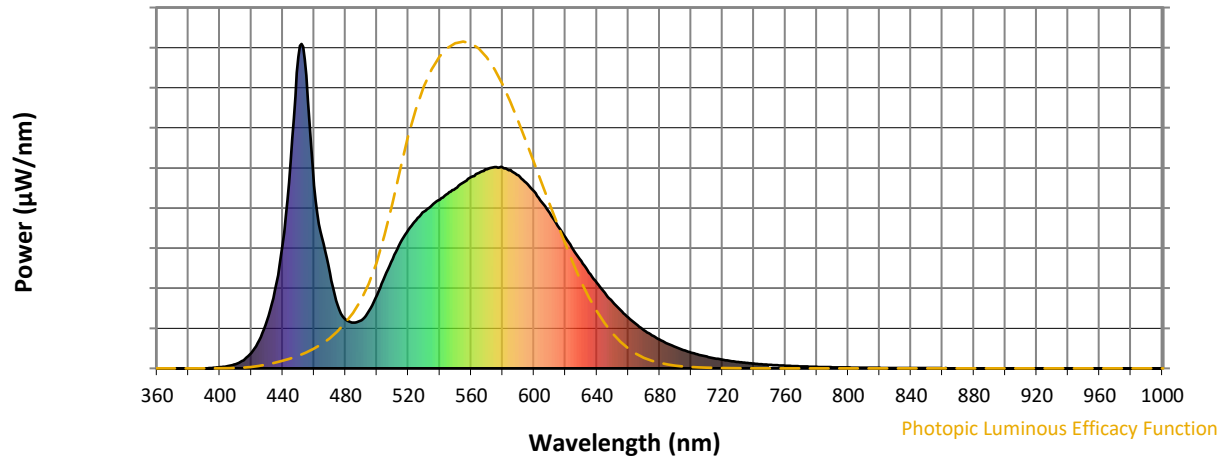
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

**Photopic Flux vs. Wavelength**

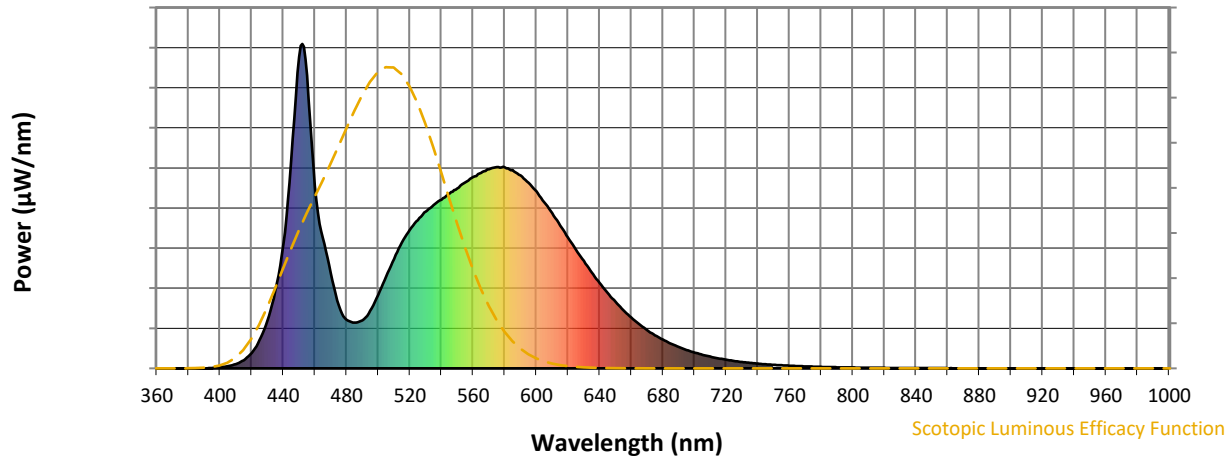


**Photopic Lumens: NR**

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**

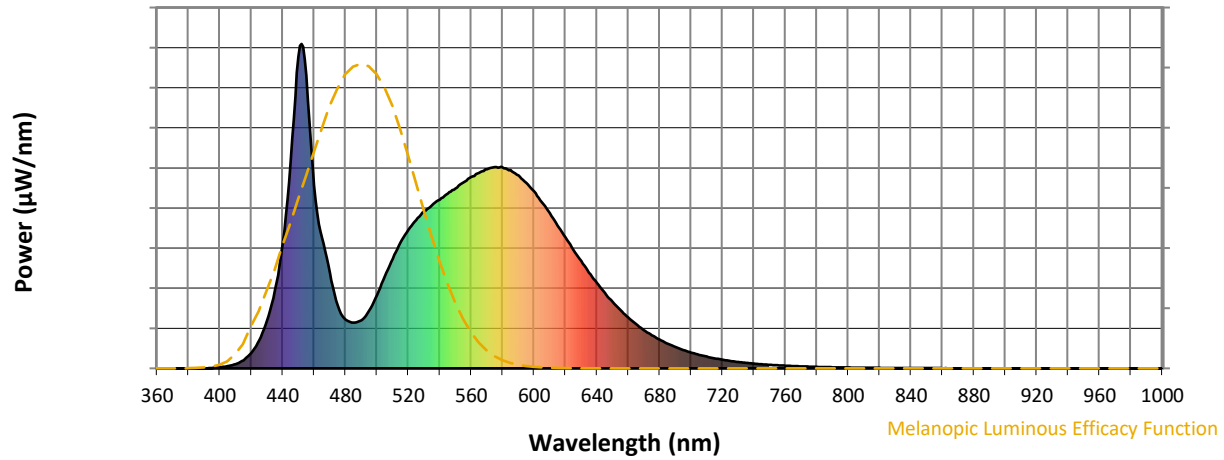
**S/P: 1.8**

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

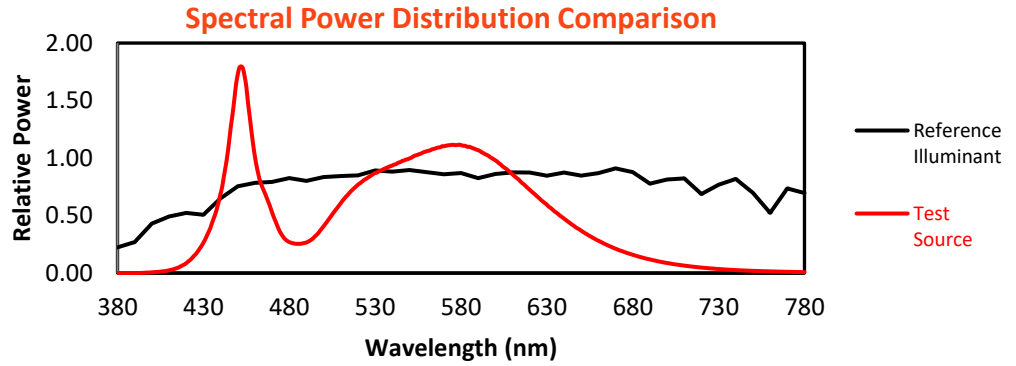
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	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			

REPORT NUMBER: SP1-2406-133-5

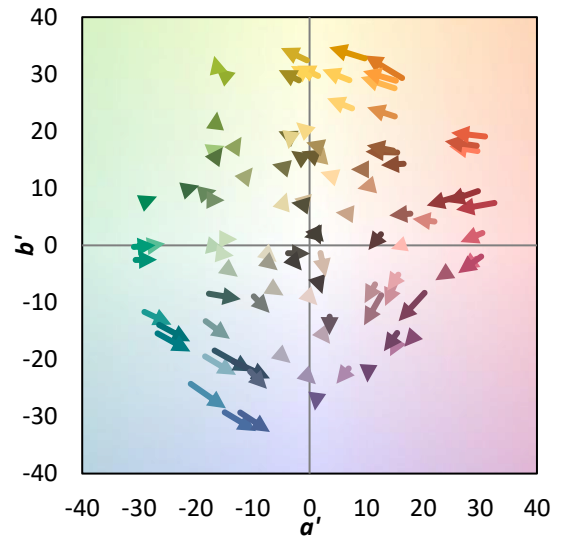
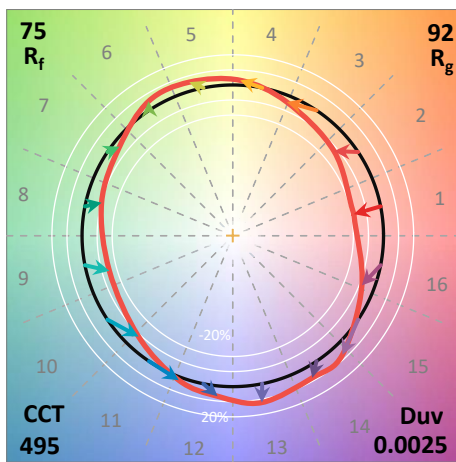
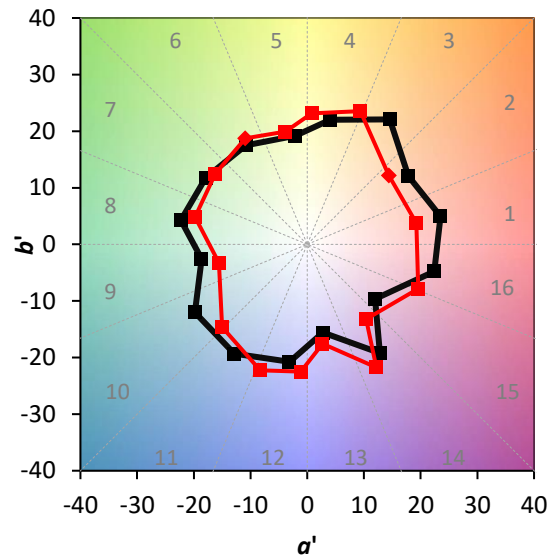
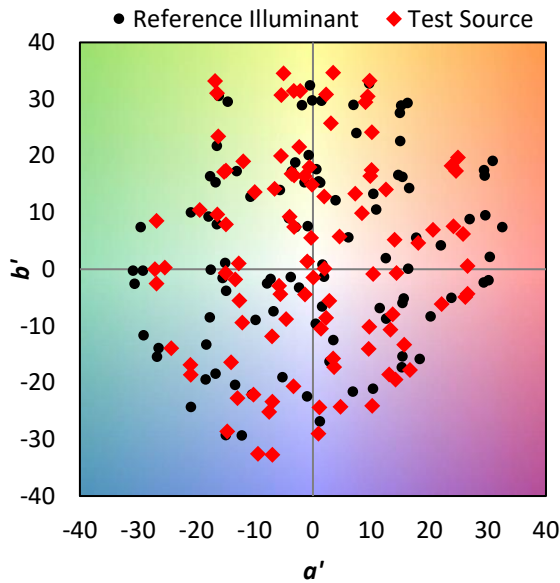
TM-30-18

**Summary**

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



**Color Vector Graphics**

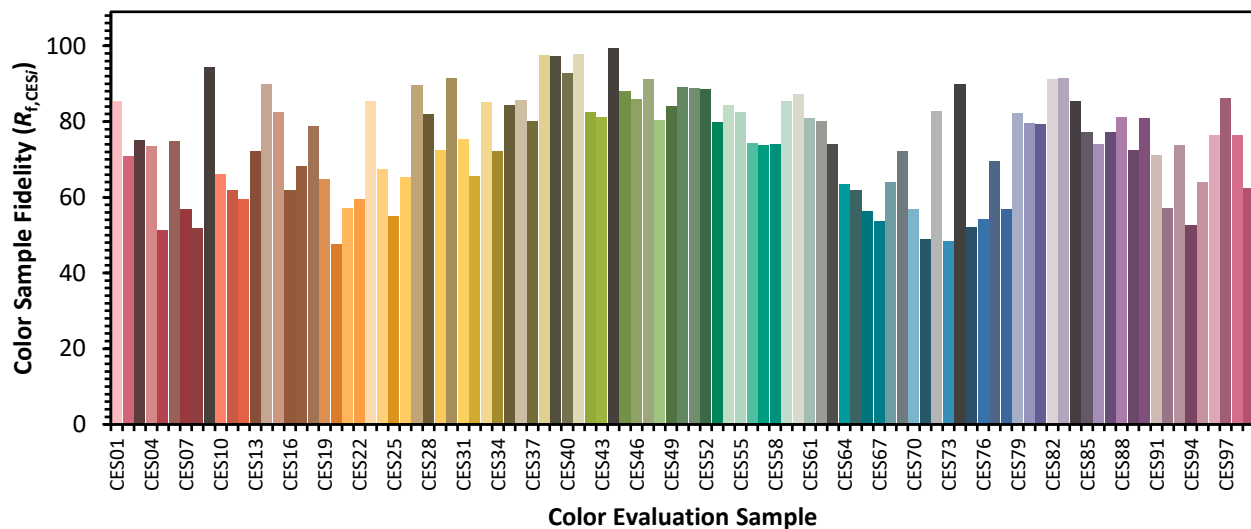


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TM-30-18

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

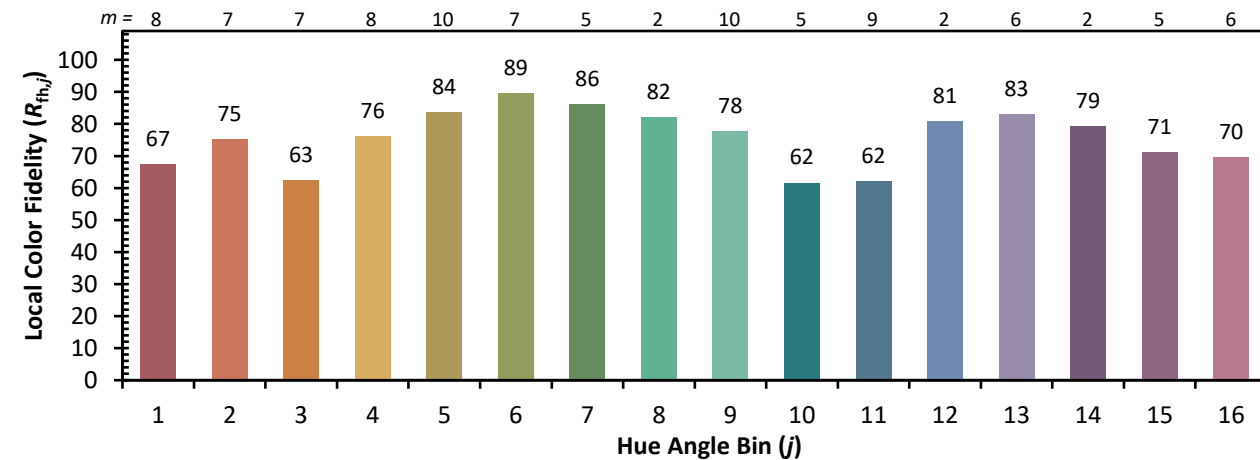
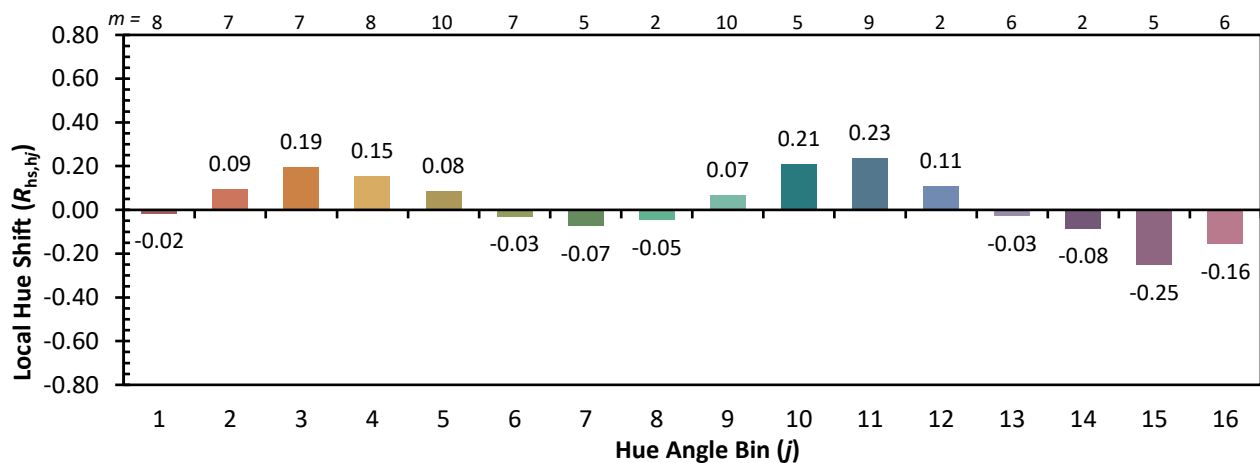
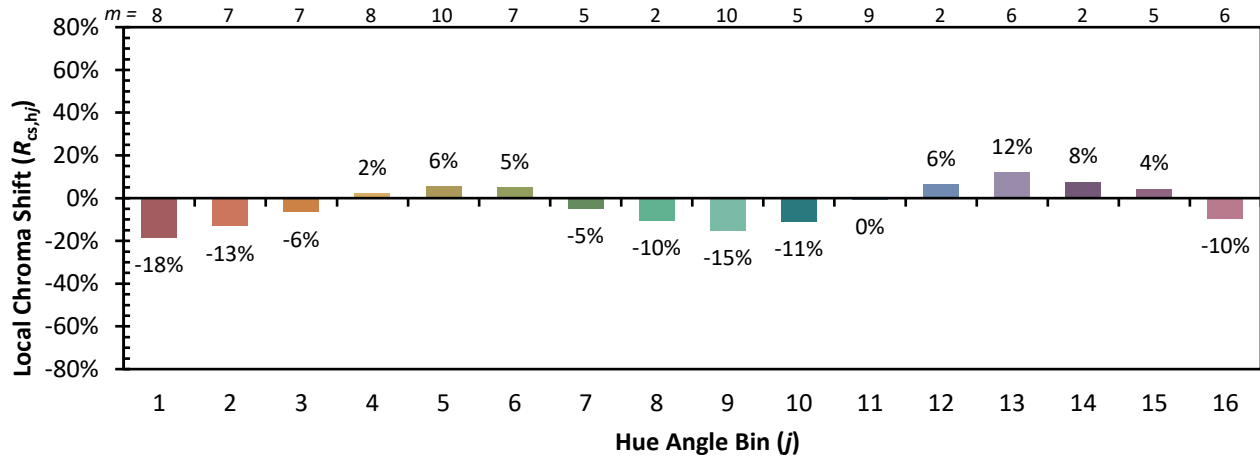
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 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	



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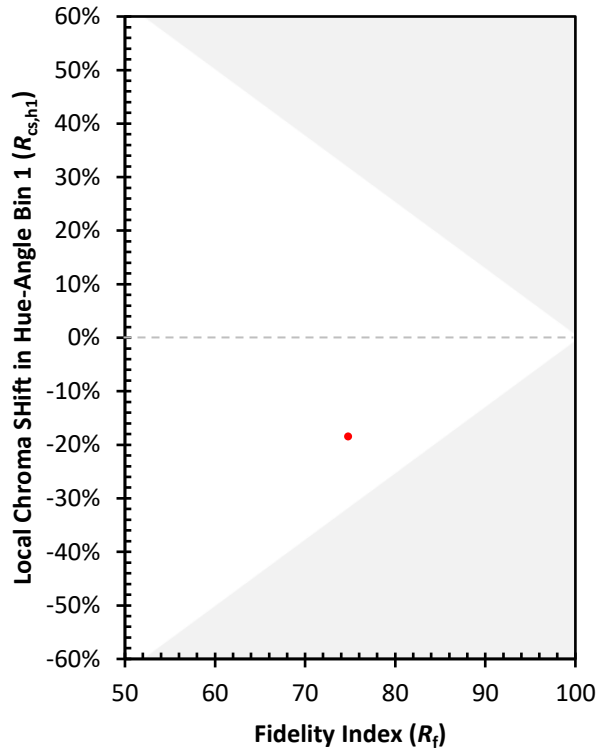
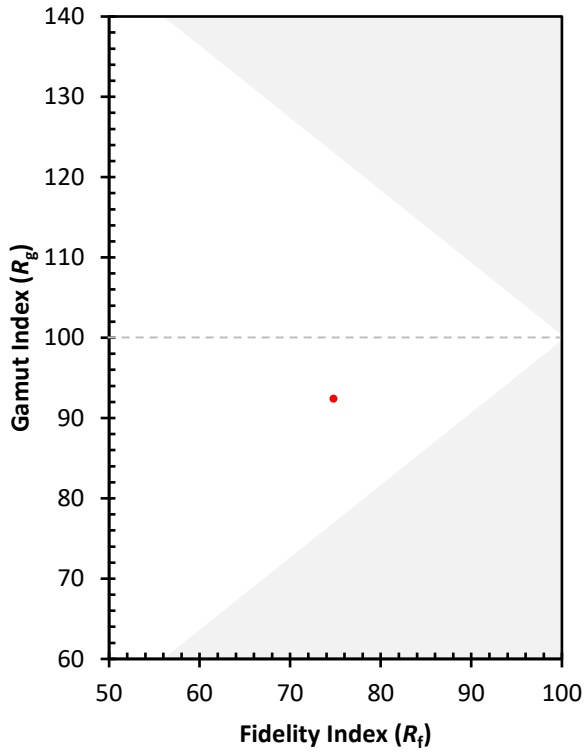
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)