

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: P856119

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

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856119  
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  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS  
Light Source: (4) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

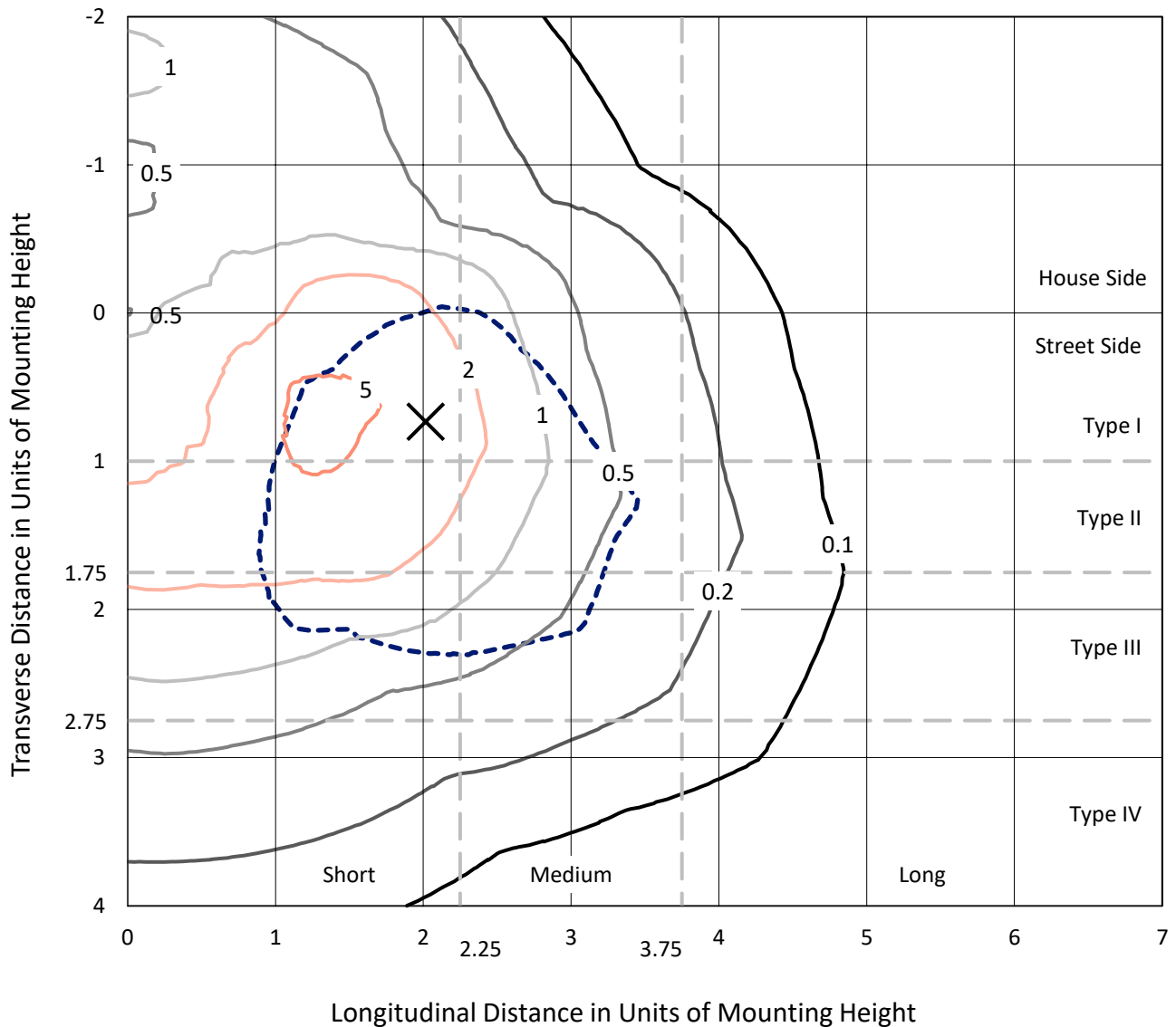
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14754.9 lumens  
Efficiency: N/A  
Efficacy: 153.1 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

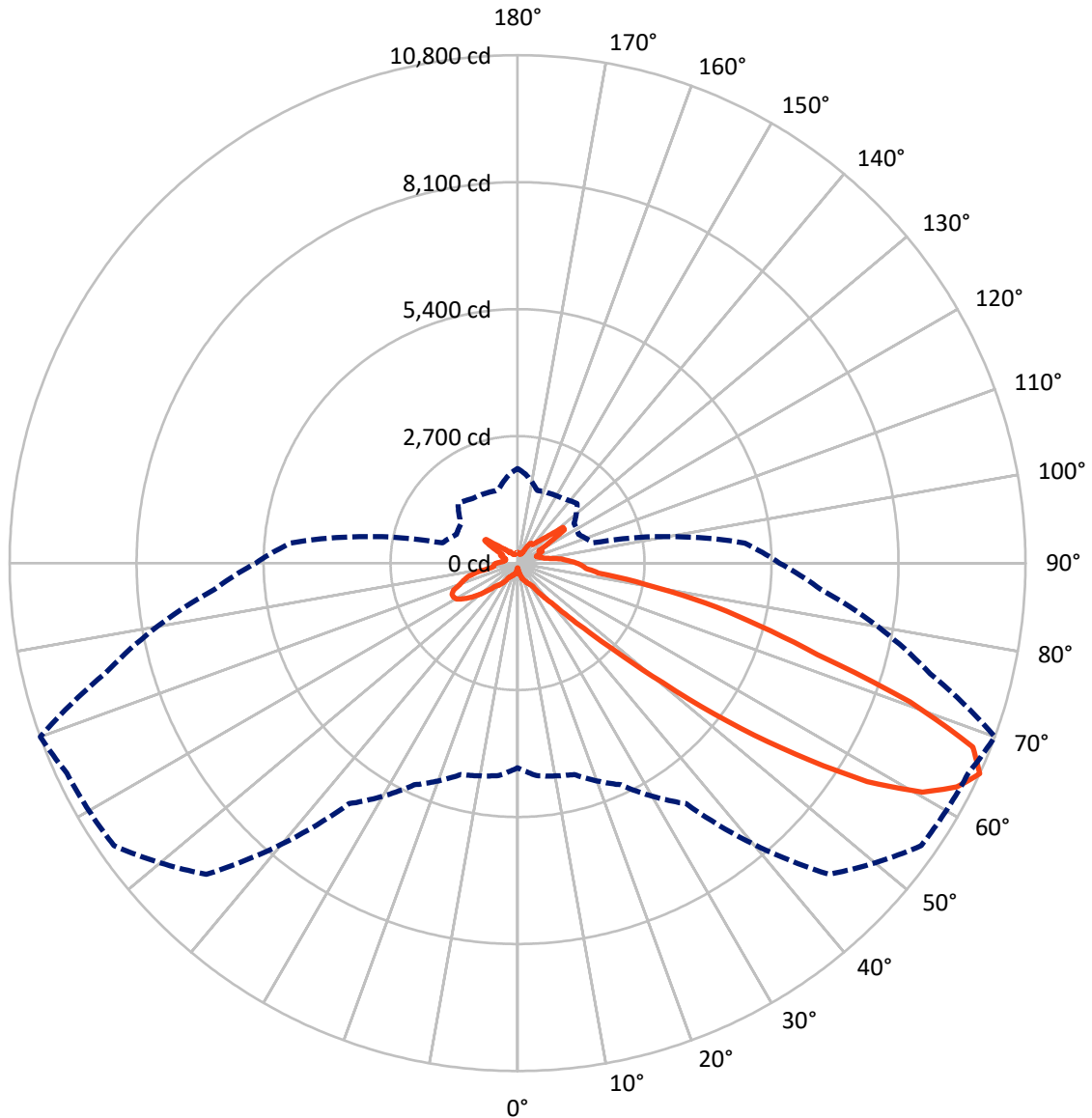
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 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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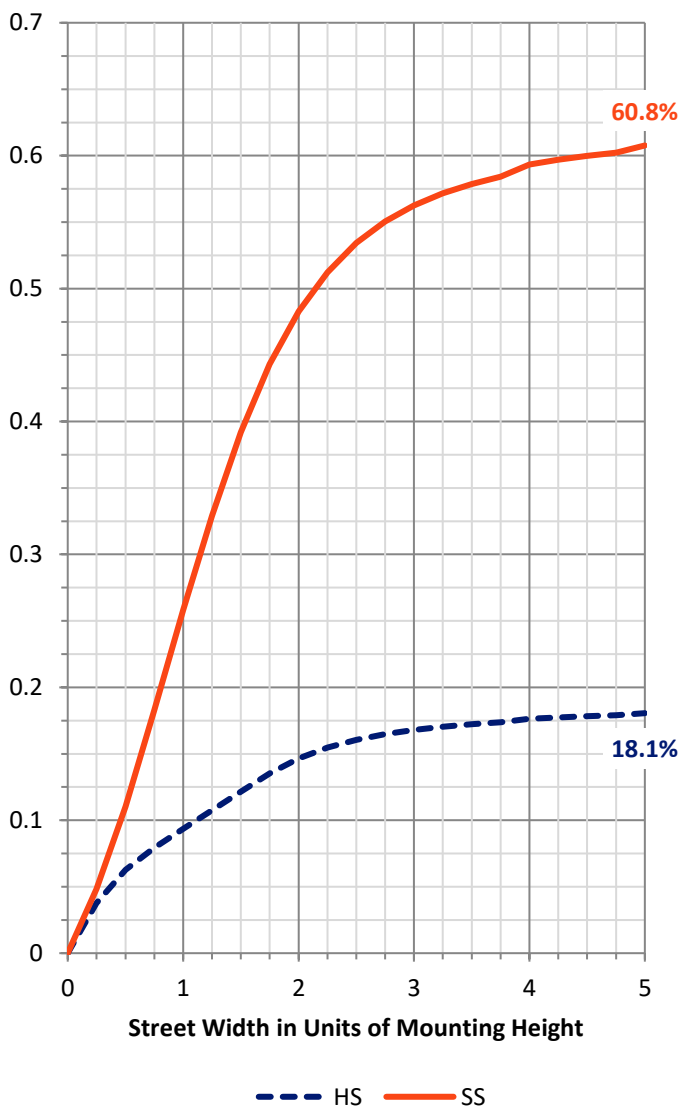
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2779.4	991.5	3770.9
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	9268.2	1715.8	10984.0
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	12047.6	2707.3	14754.9
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.8	0.1
10°-20°	77.3	0.5
20°-30°	164.1	1.1
30°-40°	334.1	2.3
40°-50°	849.6	5.8
50°-60°	2730.6	18.5
60°-70°	4456.3	30.2
70°-80°	2537.0	17.2
80°-90°	882.8	6.0
90°-100°	549.3	3.7
100°-110°	349.9	2.4
110°-120°	384.9	2.6
120°-130°	650.9	4.4
130°-140°	383.7	2.6
140°-150°	206.5	1.4
150°-160°	104.4	0.7
160°-170°	57.1	0.4
170°-180°	20.6	0.1
0°-90°	12047.6	81.7
0°-180°	14754.9	100.0



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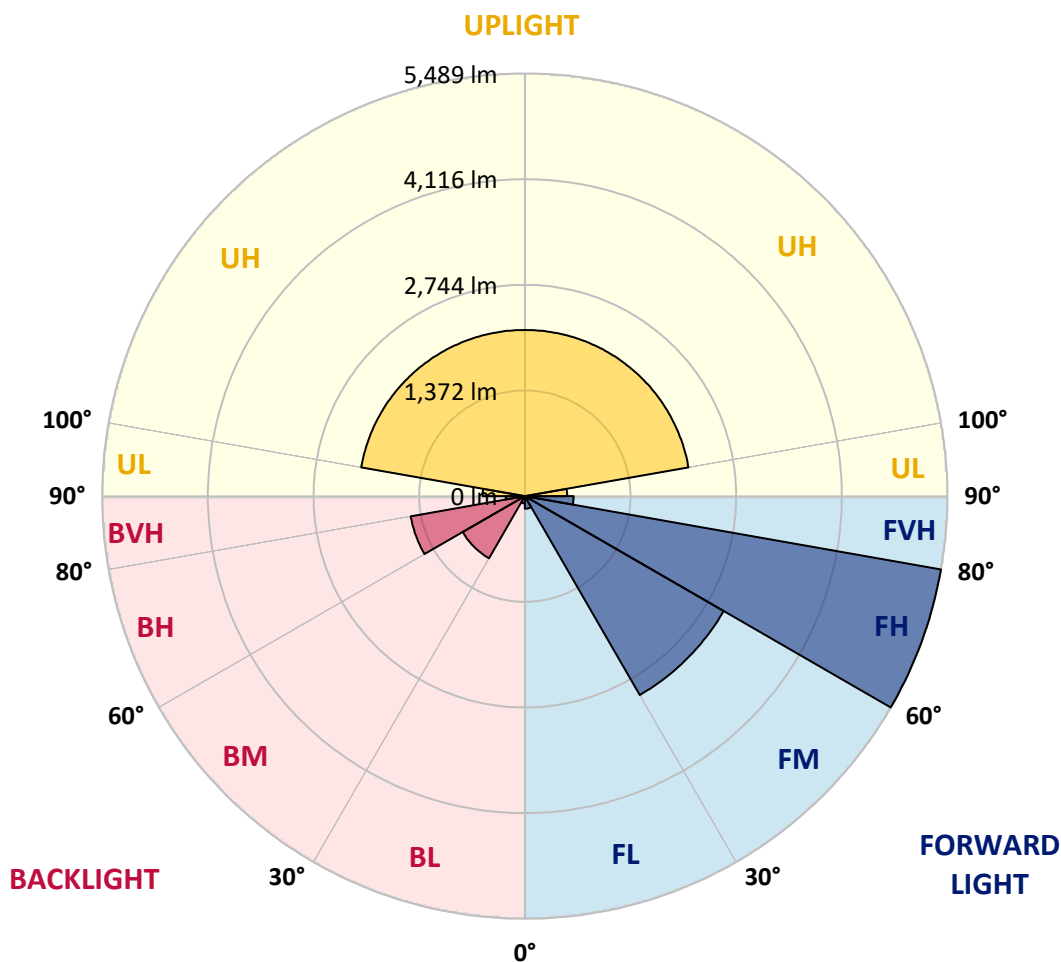
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.8	1.1			
FM (30°-60°)	2982.9	20.2			
FH (60°-80°)	5488.6	37.2			G3/7500
FVH (80°-90°)	633.0	4.3			G4/750
BL (0°-30°)	93.4	0.6	B0/110		
BM (30°-60°)	931.5	6.3	B1/1000		
BH (60°-80°)	1504.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	249.8	1.7			G3/500
UL (90°-100°)	549.3	3.7		U4/1000	
UH (100°-180°)	2158.0	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°	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
2.5°	117.1	117.1	120.1	120.1	120.1	117.1	115.6	112.5	112.5	112.5	111.0
5°	152.0	150.5	152.0	156.6	158.1	153.6	150.5	146.0	146.0	144.4	144.4
7.5°	205.3	203.7	200.7	196.1	197.7	202.2	208.3	196.1	193.1	185.5	182.5
10°	257.0	253.9	257.0	249.4	241.8	231.1	237.2	234.2	228.1	220.5	214.4
12.5°	313.2	314.7	320.8	314.7	302.6	285.9	282.8	275.2	269.1	267.6	258.5
15°	371.0	372.5	378.6	377.1	364.9	342.1	333.0	325.4	322.3	313.2	293.5
17.5°	401.4	402.9	404.5	406.0	398.4	380.1	366.4	352.8	348.2	345.2	320.8
20°	416.6	413.6	416.6	422.7	428.8	413.6	399.9	392.3	387.7	377.1	345.2
22.5°	440.9	437.9	436.4	440.9	459.2	448.5	434.9	427.3	422.7	409.0	360.4
25°	466.8	463.7	468.3	465.3	488.1	483.5	469.8	462.2	456.1	439.4	383.2
27.5°	495.7	492.6	497.2	494.2	512.4	515.4	506.3	500.2	491.1	466.8	399.9
30°	520.0	517.0	521.5	520.0	538.3	548.9	544.3	542.8	529.1	500.2	428.8
32.5°	539.8	538.3	548.9	553.5	558.0	582.3	579.3	593.0	577.8	542.8	471.4
35°	585.4	590.0	618.8	649.2	653.8	702.5	708.5	758.7	743.5	697.9	611.2
37.5°	904.7	888.0	859.1	830.2	819.5	913.8	927.5	977.7	939.7	854.5	714.6
40°	964.0	936.6	903.2	880.4	883.4	1052.2	1023.3	1213.4	1105.4	977.7	872.8
42.5°	915.3	906.2	1023.3	1078.0	1038.5	1284.8	1236.2	1598.0	1474.9	1161.7	1053.7
45°	1148.0	1129.7	1170.8	1225.5	1237.7	1690.8	1657.3	2035.9	1985.8	1452.1	1351.7
47.5°	1313.7	1297.0	1351.7	1537.2	1696.9	2186.5	2368.9	2914.8	2738.4	2063.3	1830.7
50°	1810.9	1807.9	1976.6	2197.1	2476.9	3180.9	3665.9	4278.7	3994.3	2920.9	2510.3
52.5°	2302.0	2308.1	2514.9	2905.7	3196.1	4439.8	5128.6	5557.4	5595.4	3808.8	3253.9
55°	2673.0	2711.0	2960.4	3615.7	4055.1	5560.4	6454.5	6787.5	7167.6	5146.9	4027.8
57.5°	3396.8	3454.6	3691.8	4333.4	4947.7	6956.2	8163.5	8200.0	8767.2	6630.9	4858.0
60°	4029.3	4164.6	4248.3	4830.6	5668.4	8289.7	9433.1	9360.1	9892.3	7860.9	5700.3
62.5°	4225.4	4380.5	4459.6	5080.0	6238.6	9037.8	10026.1	10117.3	10483.8	8724.6	6215.8
65°	4353.2	4535.6	4654.2	5203.1	6244.7	9357.1	10476.2	10573.5	10800.0	9086.5	6472.7
67.5°	4287.8	4520.4	4672.5	5160.5	5916.2	9110.8	10386.5	10199.5	10439.7	8783.9	6185.4
70°	3743.4	3986.7	4140.3	4503.7	4946.2	7660.2	8954.2	8641.0	8852.3	7331.8	5086.0
72.5°	3050.1	3170.2	3264.5	3463.7	3728.2	5650.1	6804.2	6544.2	6670.4	5516.3	3811.9
75°	2505.8	2542.3	2659.3	2773.4	2817.5	4132.7	5390.1	5152.9	5300.4	4199.6	3033.4
77.5°	1820.0	1841.3	2008.6	2026.8	2016.2	2835.7	4248.3	4039.9	4087.1	3121.6	2264.0
80°	1056.7	1097.8	1316.7	1306.1	1287.9	1747.0	2990.8	2907.2	2761.2	2119.6	1567.6
82.5°	745.0	786.1	886.4	909.3	897.1	1254.4	1941.7	1886.9	1728.8	1474.9	1084.1
85°	784.6	789.1	793.7	804.3	784.6	1119.1	1487.0	1459.7	1461.2	1219.4	894.0
87.5°	773.9	792.2	799.8	804.3	784.6	1062.8	1382.1	1347.2	1363.9	1158.6	868.2
90°	679.7	713.1	716.2	723.8	713.1	948.8	1240.7	1207.3	1228.6	1044.6	790.7
92.5°	555.0	573.2	594.5	623.4	611.2	811.9	1055.2	1030.9	1056.7	904.7	694.9
95°	526.1	545.9	559.5	579.3	561.1	740.5	953.3	904.7	926.0	792.2	599.1
97.5°	434.9	451.6	463.7	471.4	457.7	583.9	731.4	697.9	696.4	612.8	479.0
100°	371.0	381.6	392.3	399.9	387.7	483.5	579.3	567.1	570.2	506.3	412.1
102.5°	352.8	358.8	375.6	377.1	363.4	440.9	521.5	517.0	523.0	468.3	386.2
105°	345.2	349.7	363.4	358.8	346.7	412.1	480.5	483.5	483.5	436.4	361.9
107.5°	322.3	329.9	345.2	337.5	331.5	380.1	442.5	431.8	434.9	406.0	343.6
110°	319.3	325.4	340.6	334.5	329.9	371.0	425.7	422.7	427.3	401.4	352.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	396.8	390.8	402.9	390.8	398.4	433.3	491.1	485.0	498.7	489.6	440.9
115°	489.6	492.6	504.8	480.5	488.1	523.0	555.0	565.6	577.8	564.1	513.9
117.5°	453.1	479.0	463.7	460.7	454.6	482.0	477.4	504.8	517.0	506.3	486.6
120°	485.0	517.0	472.9	450.1	440.9	509.4	542.8	541.3	532.2	510.9	469.8
122.5°	725.3	729.8	732.9	801.3	777.0	843.9	863.6	837.8	837.8	865.2	781.5
125°	1131.2	1135.8	1132.8	1163.2	1146.5	1210.3	1236.2	1234.6	1219.4	1205.7	1123.6
127.5°	1143.4	1143.4	1132.8	1116.0	1131.2	1193.6	1195.1	1252.9	1233.1	1196.6	1120.6
130°	798.3	804.3	842.4	854.5	875.8	889.5	874.3	924.5	933.6	927.5	875.8
132.5°	661.4	672.1	713.1	728.3	742.0	743.5	737.4	777.0	786.1	786.1	763.3
135°	571.7	583.9	588.4	580.8	600.6	615.8	628.0	659.9	656.9	650.8	631.0
137.5°	498.7	503.3	489.6	472.9	483.5	527.6	551.9	585.4	583.9	573.2	539.8
140°	421.2	422.7	415.1	407.5	418.1	456.1	479.0	515.4	510.9	503.3	463.7
142.5°	319.3	323.9	343.6	358.8	384.7	463.7	451.6	483.5	506.3	524.6	433.3
145°	336.0	329.9	326.9	343.6	377.1	491.1	456.1	497.2	507.8	520.0	415.1
147.5°	387.7	390.8	386.2	375.6	421.2	457.7	437.9	474.4	480.5	477.4	434.9
150°	304.1	308.7	310.2	305.6	361.9	360.4	340.6	368.0	371.0	371.0	342.1
152.5°	247.8	249.4	246.3	243.3	279.8	273.7	264.6	273.7	272.2	270.6	264.6
155°	235.7	235.7	232.6	234.2	258.5	252.4	246.3	252.4	249.4	244.8	238.7
157.5°	217.4	219.0	219.0	223.5	238.7	228.1	222.0	225.0	222.0	219.0	219.0
160°	205.3	205.3	206.8	212.9	222.0	211.3	206.8	208.3	206.8	203.7	205.3
162.5°	200.7	200.7	202.2	205.3	206.8	200.7	196.1	196.1	196.1	196.1	200.7
165°	197.7	197.7	197.7	199.2	199.2	194.6	193.1	194.6	196.1	197.7	203.7
167.5°	203.7	203.7	203.7	203.7	202.2	199.2	197.7	199.2	200.7	202.2	206.8
170°	212.9	211.3	211.3	209.8	208.3	205.3	203.7	202.2	202.2	203.7	205.3
172.5°	219.0	219.0	217.4	217.4	215.9	212.9	209.8	208.3	208.3	208.3	208.3
175°	226.6	226.6	226.6	226.6	225.0	222.0	220.5	217.4	217.4	217.4	217.4
177.5°	235.7	235.7	235.7	235.7	232.6	229.6	226.6	223.5	223.5	223.5	222.0
180°	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
2.5°	109.5	108.0	103.4	101.9	100.4	97.3	94.3	92.7	91.2	91.2	92.7
5°	146.0	144.4	144.4	139.9	135.3	127.7	124.7	124.7	126.2	127.7	130.8
7.5°	184.0	187.0	190.1	182.5	168.8	150.5	139.9	142.9	150.5	156.6	156.6
10°	212.9	212.9	223.5	214.4	191.6	168.8	153.6	150.5	152.0	153.6	155.1
12.5°	253.9	253.9	247.8	223.5	200.7	177.9	165.7	162.7	162.7	156.6	155.1
15°	284.3	275.2	253.9	231.1	211.3	188.5	174.9	170.3	165.7	161.2	159.7
17.5°	302.6	285.9	257.0	235.7	215.9	197.7	184.0	174.9	170.3	171.8	171.8
20°	323.9	305.6	279.8	257.0	232.6	208.3	191.6	177.9	173.3	174.9	173.3
22.5°	340.6	322.3	296.5	270.6	244.8	219.0	199.2	182.5	176.4	177.9	177.9
25°	360.4	345.2	317.8	287.4	255.4	231.1	211.3	191.6	182.5	180.9	180.9
27.5°	380.1	369.5	340.6	304.1	270.6	241.8	222.0	199.2	188.5	184.0	184.0
30°	406.0	393.8	364.9	320.8	284.3	257.0	235.7	211.3	196.1	188.5	187.0
32.5°	447.0	433.3	398.4	351.2	299.5	272.2	249.4	222.0	202.2	193.1	191.6
35°	580.8	559.5	504.8	450.1	366.4	304.1	266.1	231.1	208.3	196.1	194.6
37.5°	664.5	612.8	539.8	503.3	412.1	372.5	320.8	264.6	217.4	202.2	199.2
40°	799.8	728.3	637.1	565.6	401.4	407.5	375.6	329.9	258.5	212.9	208.3
42.5°	913.8	824.1	685.7	593.0	402.9	425.7	401.4	363.4	310.2	252.4	243.3
45°	1126.7	1011.1	796.7	637.1	413.6	453.1	422.7	383.2	336.0	296.5	291.9
47.5°	1522.0	1365.4	995.9	710.1	483.5	526.1	471.4	419.7	377.1	331.5	323.9
50°	2083.1	1896.1	1225.5	767.8	603.6	693.3	594.5	507.8	459.2	425.7	421.2
52.5°	2729.3	2533.1	1394.3	874.3	749.6	900.1	786.1	685.7	621.9	621.9	631.0
55°	3480.4	3284.3	1529.6	1021.8	929.0	1128.2	1005.0	922.9	892.5	1021.8	1056.7
57.5°	4225.4	3976.1	1620.8	1172.3	1138.8	1395.8	1248.3	1178.4	1234.6	1617.8	1736.4
60°	4905.1	4493.1	1692.3	1315.2	1318.3	1608.7	1499.2	1494.6	1581.3	2070.9	2221.4
62.5°	5297.4	4736.3	1687.7	1397.3	1423.2	1741.0	1649.7	1674.1	1722.7	2146.9	2261.0
65°	5566.5	4851.9	1652.8	1433.8	1467.3	1788.1	1674.1	1633.0	1601.1	1900.6	2010.1
67.5°	5381.0	4581.2	1573.7	1380.6	1439.9	1719.7	1569.1	1452.1	1389.7	1541.8	1616.3
70°	4506.7	3821.0	1392.8	1242.2	1297.0	1449.0	1304.6	1189.0	1123.6	1205.7	1240.7
72.5°	3413.5	2907.2	1255.9	1161.7	1137.3	1198.1	1061.3	932.1	892.5	945.7	953.3
75°	2718.6	2274.7	1155.6	1050.7	954.9	1014.2	846.9	690.3	667.5	667.5	655.3
77.5°	2039.0	1686.2	985.3	818.0	704.0	801.3	631.0	480.5	450.1	444.0	427.3
80°	1366.9	1148.0	662.9	542.8	506.3	594.5	448.5	352.8	354.3	352.8	333.0
82.5°	954.9	886.4	538.3	472.9	433.3	468.3	406.0	339.1	336.0	339.1	317.8
85°	846.9	811.9	521.5	488.1	447.0	451.6	389.2	320.8	322.3	328.4	310.2
87.5°	813.5	773.9	523.0	471.4	436.4	418.1	352.8	296.5	305.6	311.7	296.5
90°	732.9	693.3	480.5	425.7	389.2	363.4	311.7	281.3	293.5	299.5	285.9
92.5°	635.6	594.5	399.9	375.6	366.4	366.4	326.9	299.5	307.1	310.2	298.0
95°	547.4	507.8	355.8	329.9	322.3	323.9	291.9	269.1	273.7	272.2	263.0
97.5°	442.5	418.1	310.2	293.5	285.9	282.8	261.5	244.8	253.9	260.0	252.4
100°	390.8	378.6	299.5	287.4	276.7	275.2	257.0	246.3	253.9	263.0	257.0
102.5°	364.9	355.8	285.9	269.1	261.5	258.5	246.3	234.2	241.8	250.9	246.3
105°	343.6	329.9	273.7	258.5	247.8	246.3	234.2	219.0	223.5	235.7	232.6
107.5°	325.4	316.3	272.2	255.4	241.8	241.8	228.1	215.9	217.4	222.0	222.0
110°	340.6	329.9	282.8	270.6	252.4	246.3	243.3	234.2	226.6	223.5	223.5



REPORT NUMBER: P856119  
 CATALOG NUMBER: FFX-CLB-100-730-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	421.2	401.4	354.3	340.6	310.2	288.9	269.1	250.9	238.7	234.2	231.1
115°	497.2	474.4	418.1	383.2	342.1	310.2	282.8	263.0	244.8	238.7	244.8
117.5°	512.4	451.6	364.9	336.0	311.7	291.9	276.7	261.5	247.8	252.4	247.8
120°	507.8	433.3	368.0	409.0	368.0	322.3	285.9	285.9	281.3	258.5	263.0
122.5°	781.5	729.8	650.8	626.4	510.9	466.8	398.4	340.6	284.3	252.4	237.2
125°	1070.4	1020.2	898.6	805.9	690.3	568.7	436.4	336.0	263.0	232.6	237.2
127.5°	1076.5	1030.9	915.3	758.7	606.7	486.6	363.4	298.0	257.0	237.2	234.2
130°	839.3	795.2	696.4	576.3	480.5	401.4	326.9	269.1	232.6	217.4	212.9
132.5°	726.8	687.3	596.0	486.6	416.6	354.3	291.9	234.2	209.8	199.2	200.7
135°	611.2	564.1	477.4	418.1	374.0	317.8	261.5	214.4	202.2	199.2	197.7
137.5°	518.5	485.0	424.2	378.6	336.0	285.9	229.6	200.7	196.1	199.2	196.1
140°	440.9	413.6	380.1	340.6	288.9	241.8	205.3	191.6	199.2	200.7	199.2
142.5°	380.1	352.8	317.8	264.6	240.2	219.0	209.8	199.2	199.2	197.7	196.1
145°	317.8	281.3	264.6	272.2	257.0	235.7	219.0	197.7	190.1	190.1	191.6
147.5°	364.9	326.9	305.6	288.9	260.0	229.6	203.7	184.0	180.9	187.0	185.5
150°	314.7	279.8	264.6	241.8	223.5	200.7	184.0	176.4	177.9	185.5	185.5
152.5°	250.9	226.6	217.4	211.3	202.2	188.5	179.4	176.4	179.4	182.5	182.5
155°	235.7	222.0	211.3	206.8	196.1	185.5	177.9	176.4	179.4	182.5	185.5
157.5°	220.5	215.9	202.2	197.7	188.5	184.0	179.4	179.4	180.9	184.0	187.0
160°	209.8	208.3	196.1	194.6	188.5	185.5	185.5	187.0	188.5	188.5	188.5
162.5°	203.7	203.7	199.2	196.1	194.6	193.1	197.7	199.2	197.7	197.7	197.7
165°	205.3	206.8	202.2	199.2	197.7	200.7	208.3	208.3	205.3	203.7	202.2
167.5°	206.8	208.3	205.3	203.7	203.7	206.8	209.8	208.3	206.8	205.3	203.7
170°	205.3	206.8	206.8	208.3	208.3	208.3	211.3	211.3	208.3	206.8	206.8
172.5°	208.3	209.8	211.3	212.9	214.4	212.9	214.4	214.4	214.4	214.4	215.9
175°	217.4	217.4	219.0	219.0	217.4	219.0	219.0	219.0	220.5	223.5	223.5
177.5°	222.0	222.0	220.5	220.5	219.0	220.5	220.5	220.5	220.5	222.0	220.5
180°	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0

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.

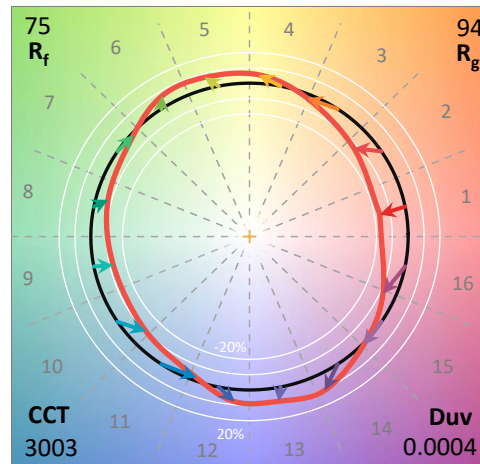
**Test Information**

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**

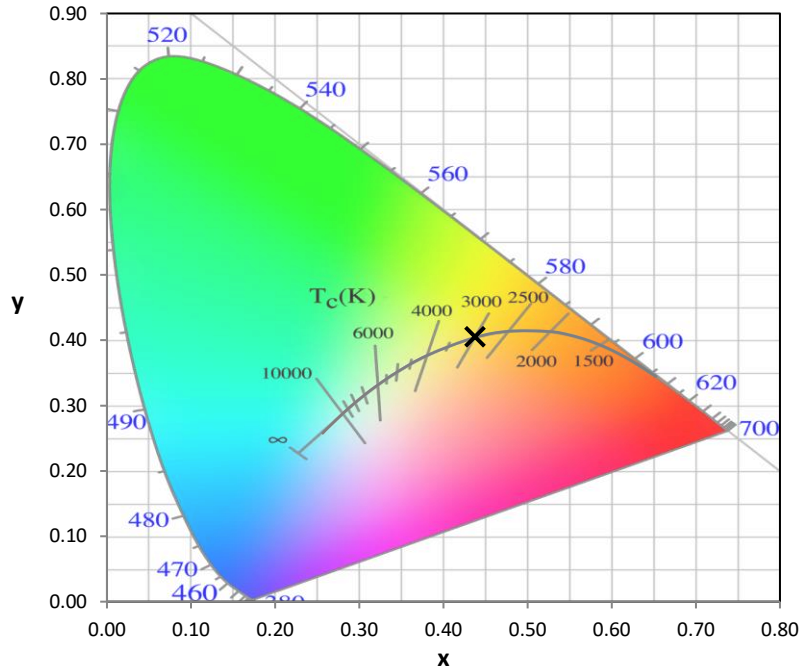
Stabilization Time: 0.794393M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

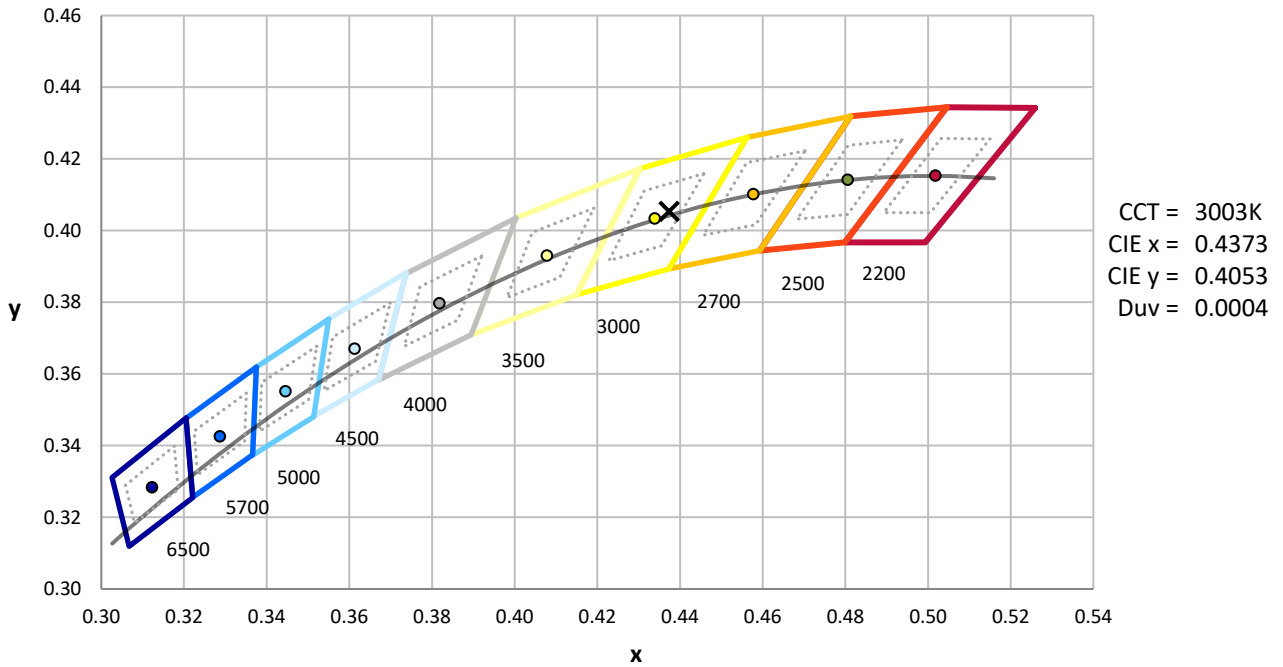
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



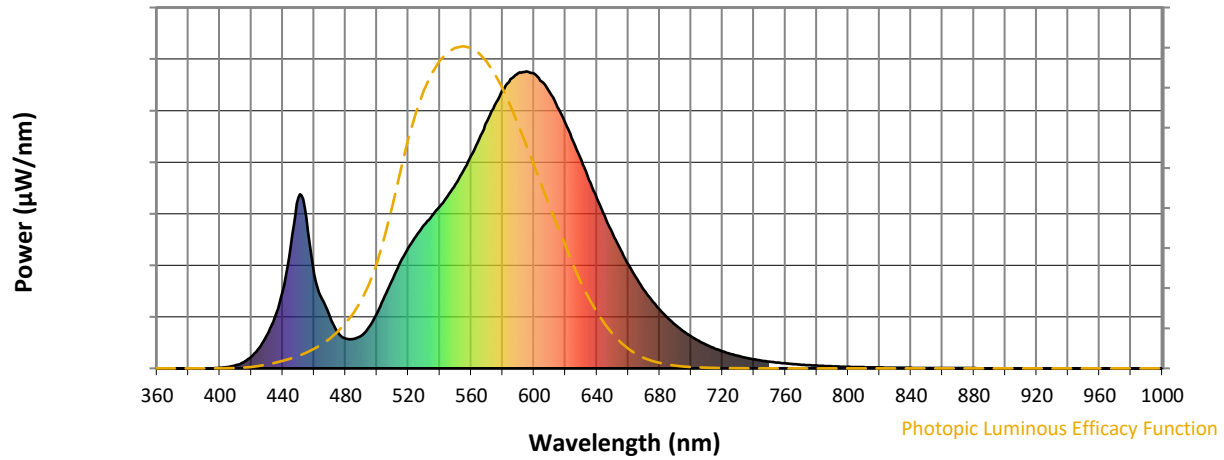
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

**Photopic Flux vs. Wavelength**

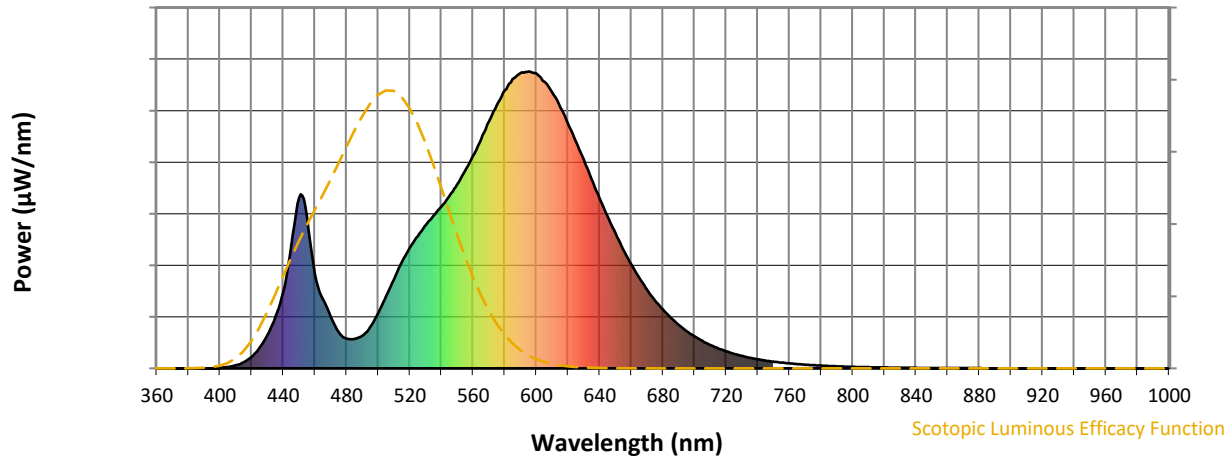


**Photopic Lumens: NR**

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			

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

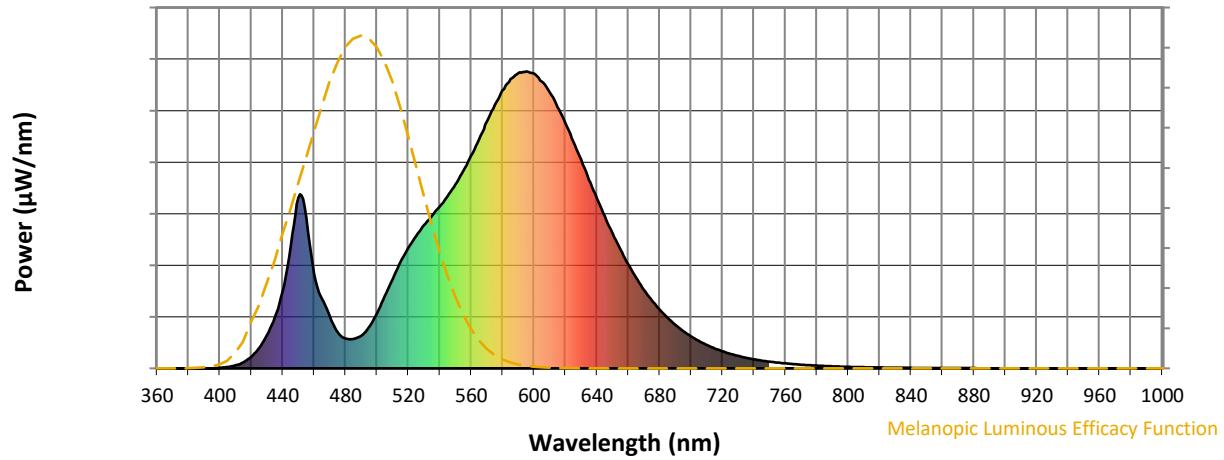
S/P: 1.21

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			



REPORT NUMBER: SP1-2406-133-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

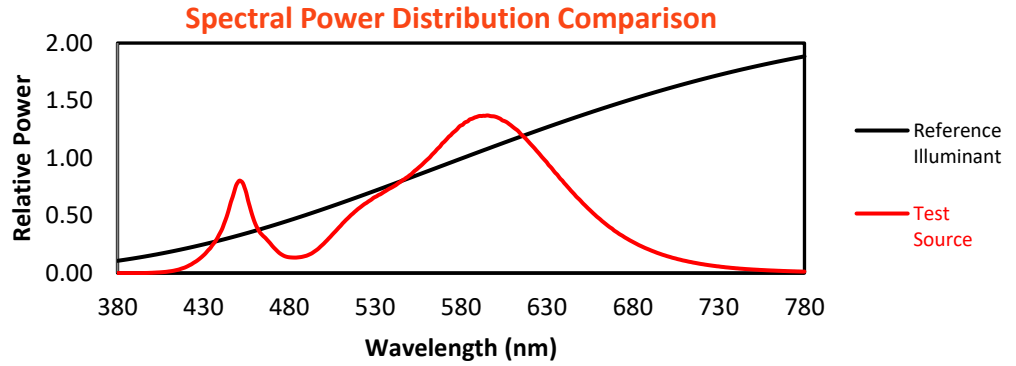
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	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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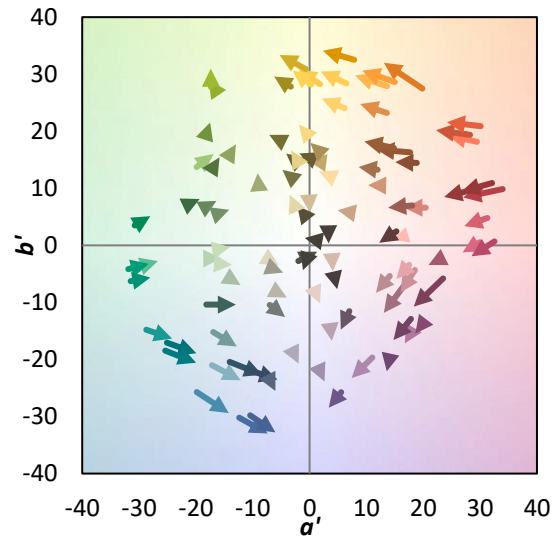
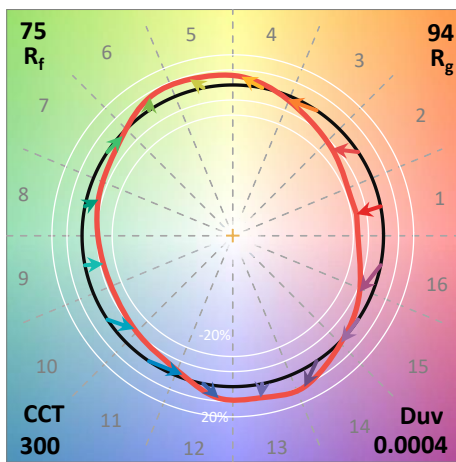
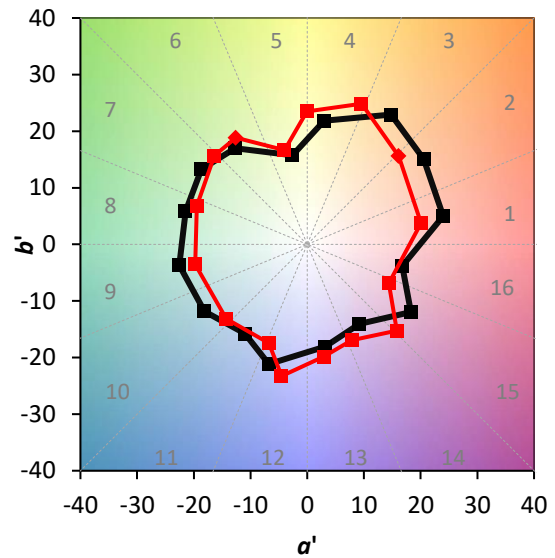
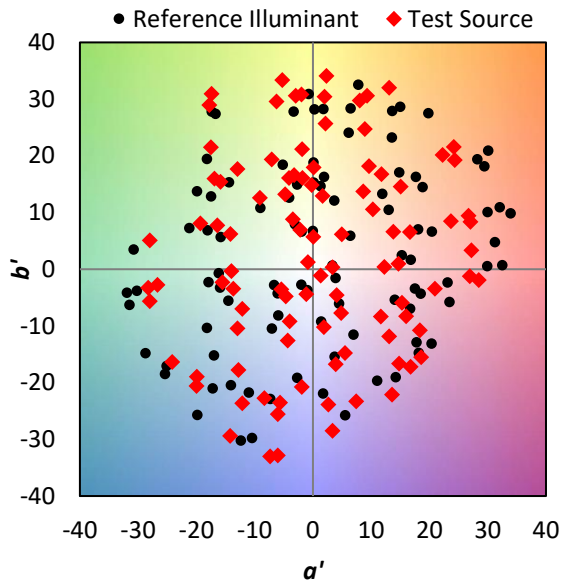
TM-30-18

**Summary**

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



**Color Vector Graphics**

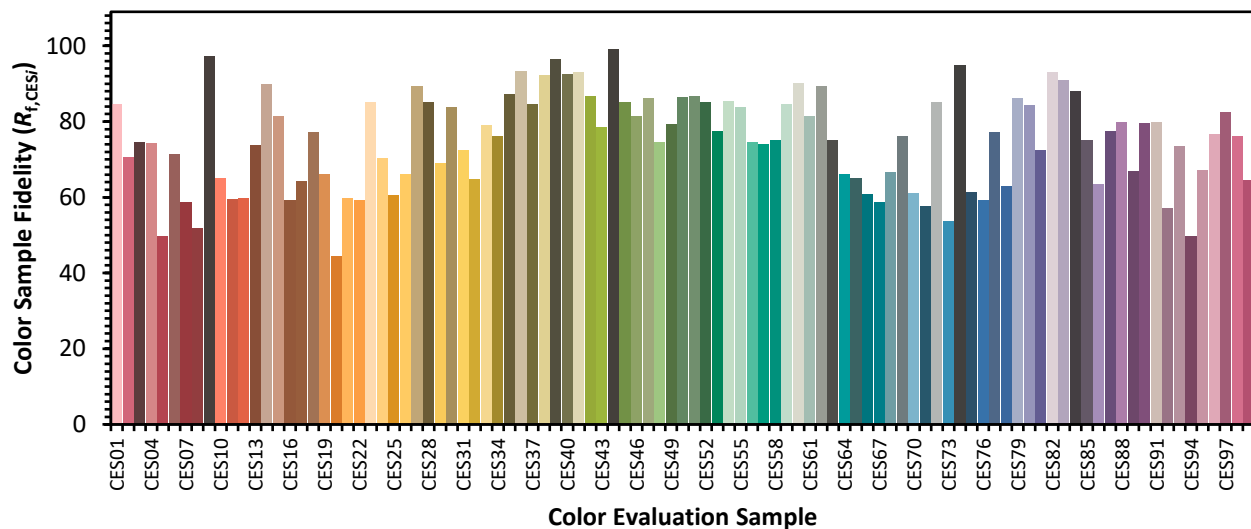


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

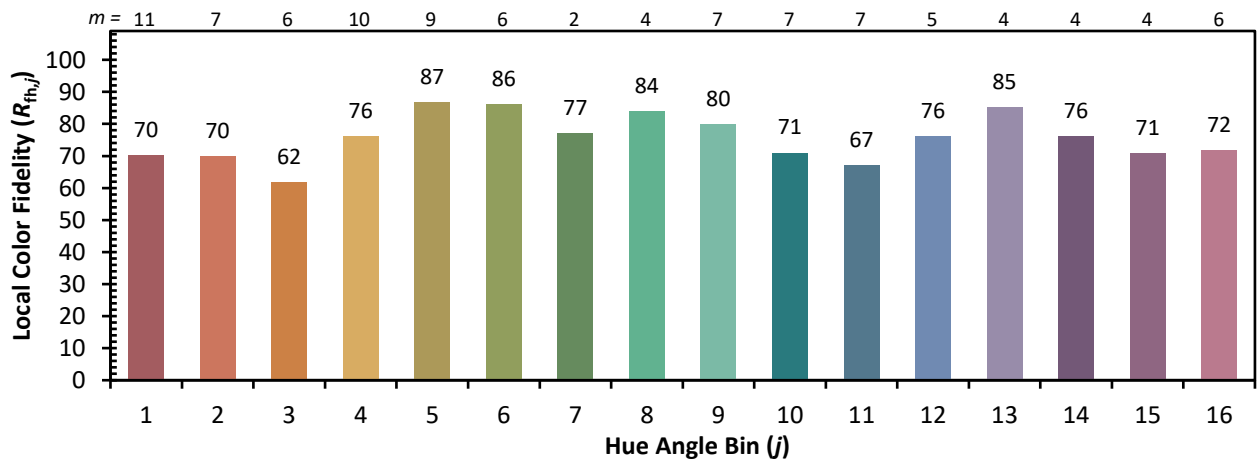
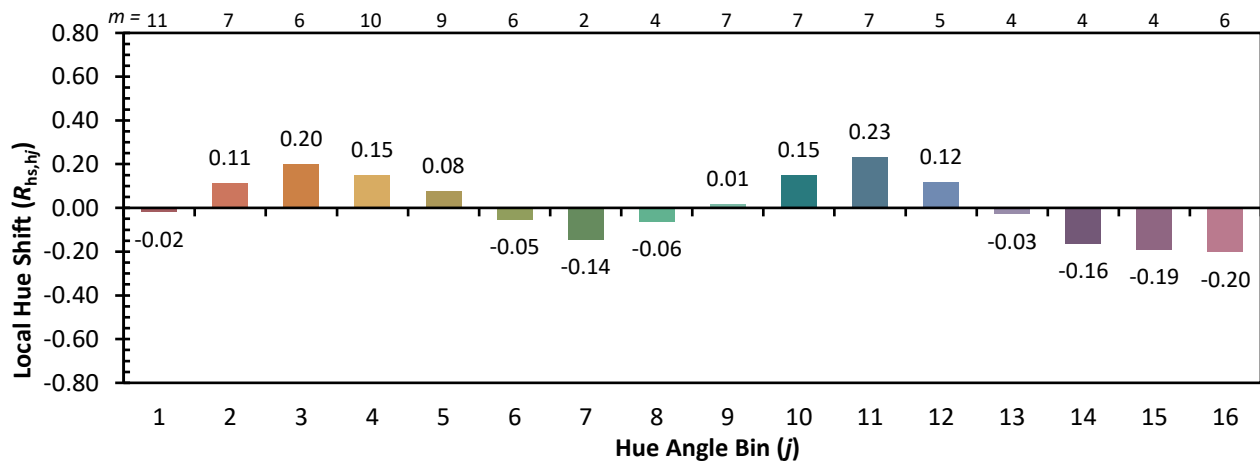
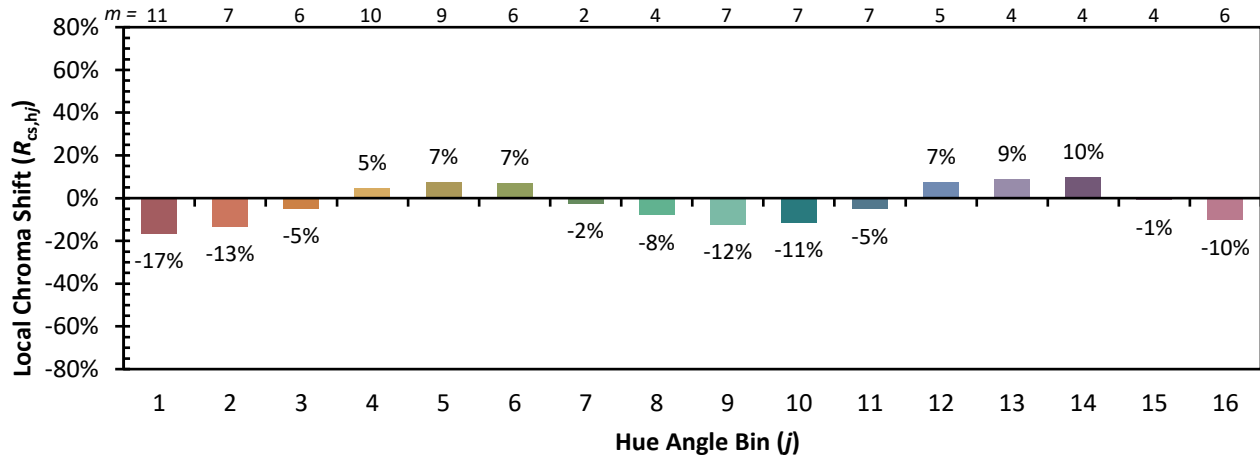
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 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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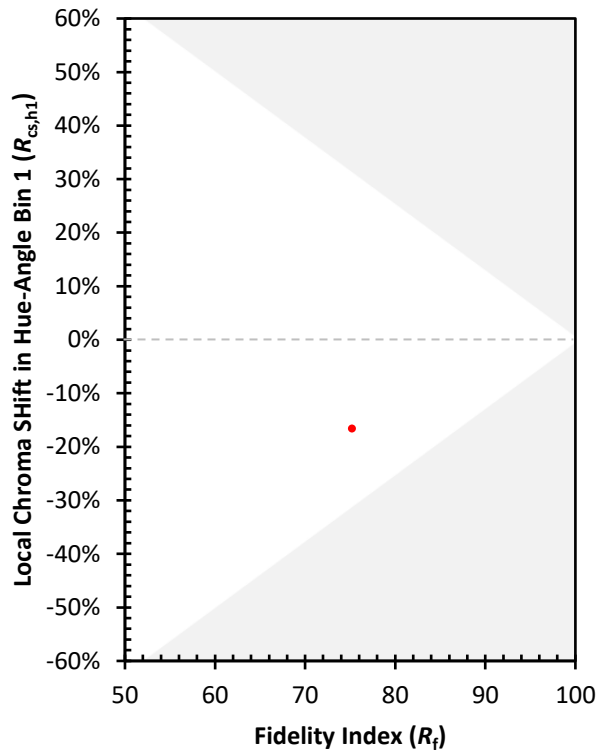
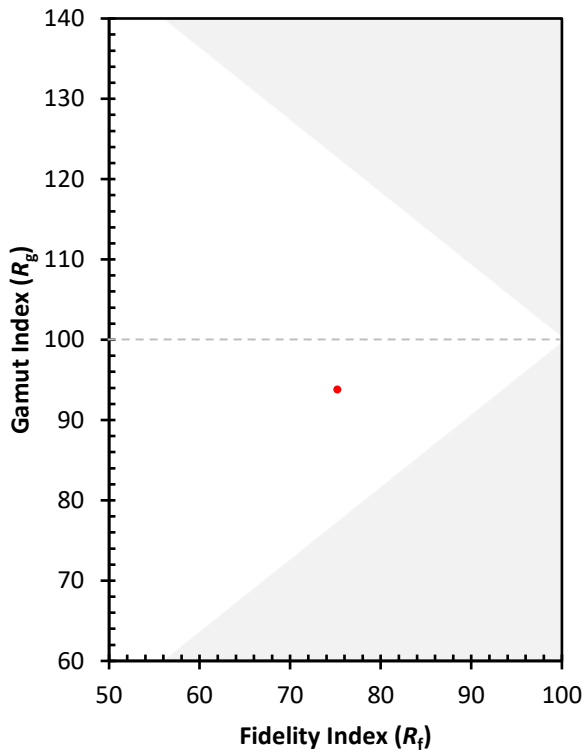
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)