

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: P856110

Luminaire Tested: **FFX-CLB-100-727-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856110  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-100-727-U-FR-T3  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS  
Light Source: (4) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

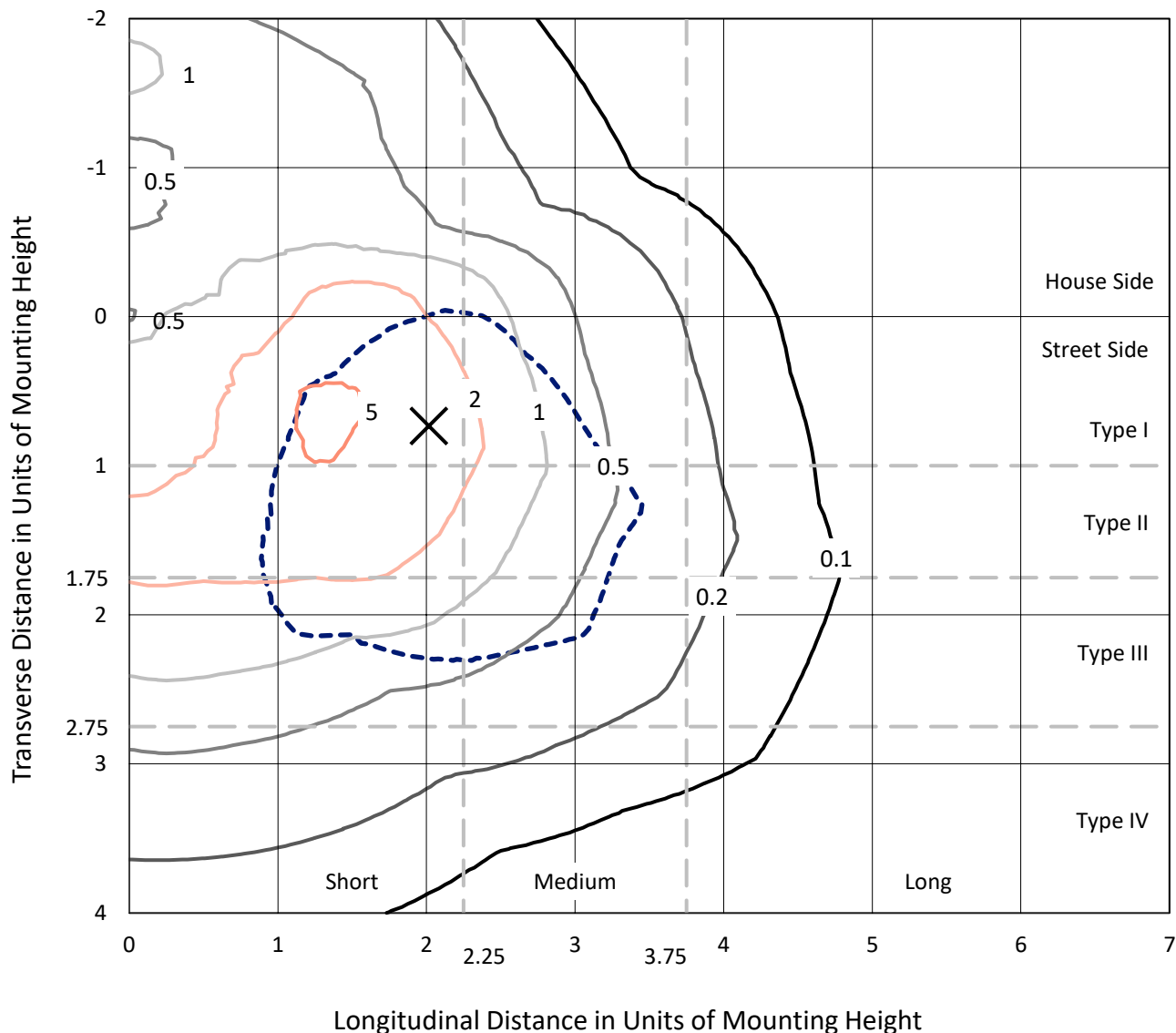
Lumens per Lamp: N/A  
Luminaire Lumens: 13825.1 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U5 - G4

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

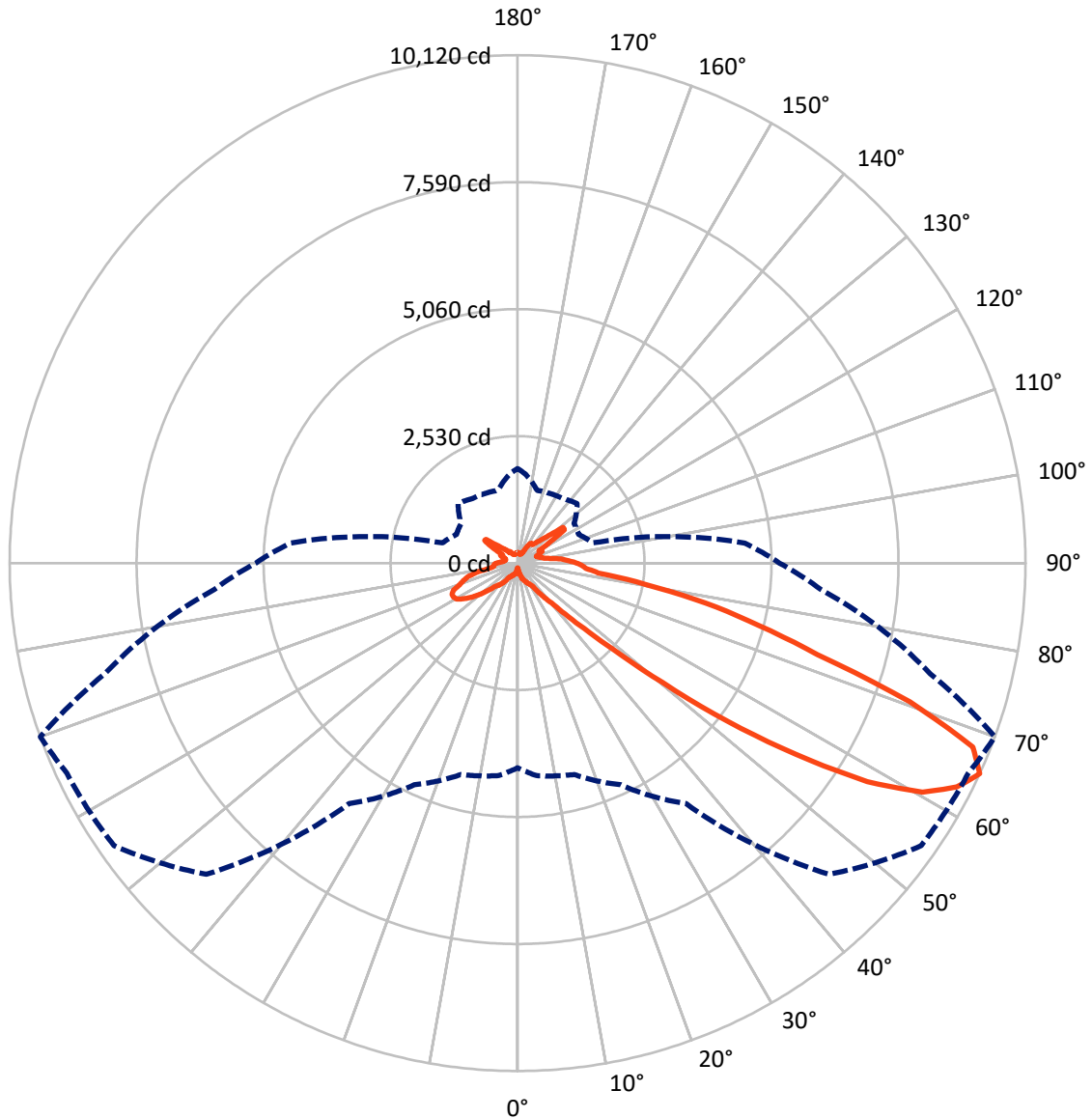
× Max cd  
 - - - 1/2 Max cd



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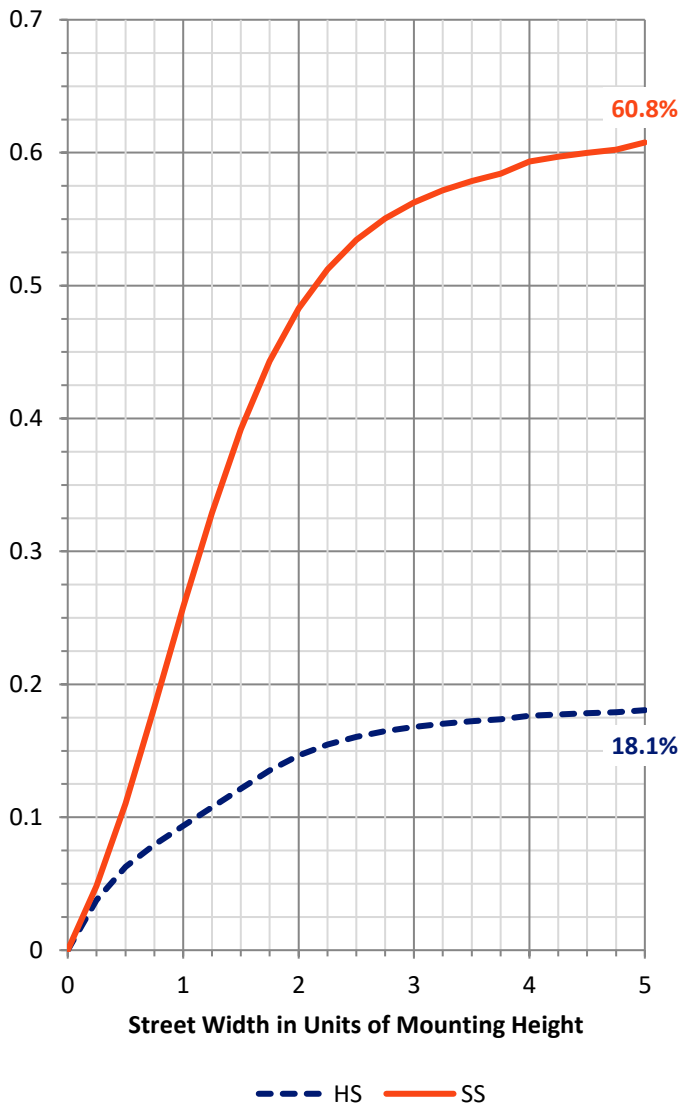
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2604.2	929.1	3533.3
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	8684.2	1607.7	10291.8
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	11288.4	2536.7	13825.1
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.8	0.1
10°-20°	72.4	0.5
20°-30°	153.7	1.1
30°-40°	313.1	2.3
40°-50°	796.1	5.8
50°-60°	2558.6	18.5
60°-70°	4175.5	30.2
70°-80°	2377.1	17.2
80°-90°	827.1	6.0
90°-100°	514.7	3.7
100°-110°	327.8	2.4
110°-120°	360.6	2.6
120°-130°	609.9	4.4
130°-140°	359.5	2.6
140°-150°	193.5	1.4
150°-160°	97.8	0.7
160°-170°	53.5	0.4
170°-180°	19.3	0.1
0°-90°	11288.4	81.7
0°-180°	13825.1	100.0



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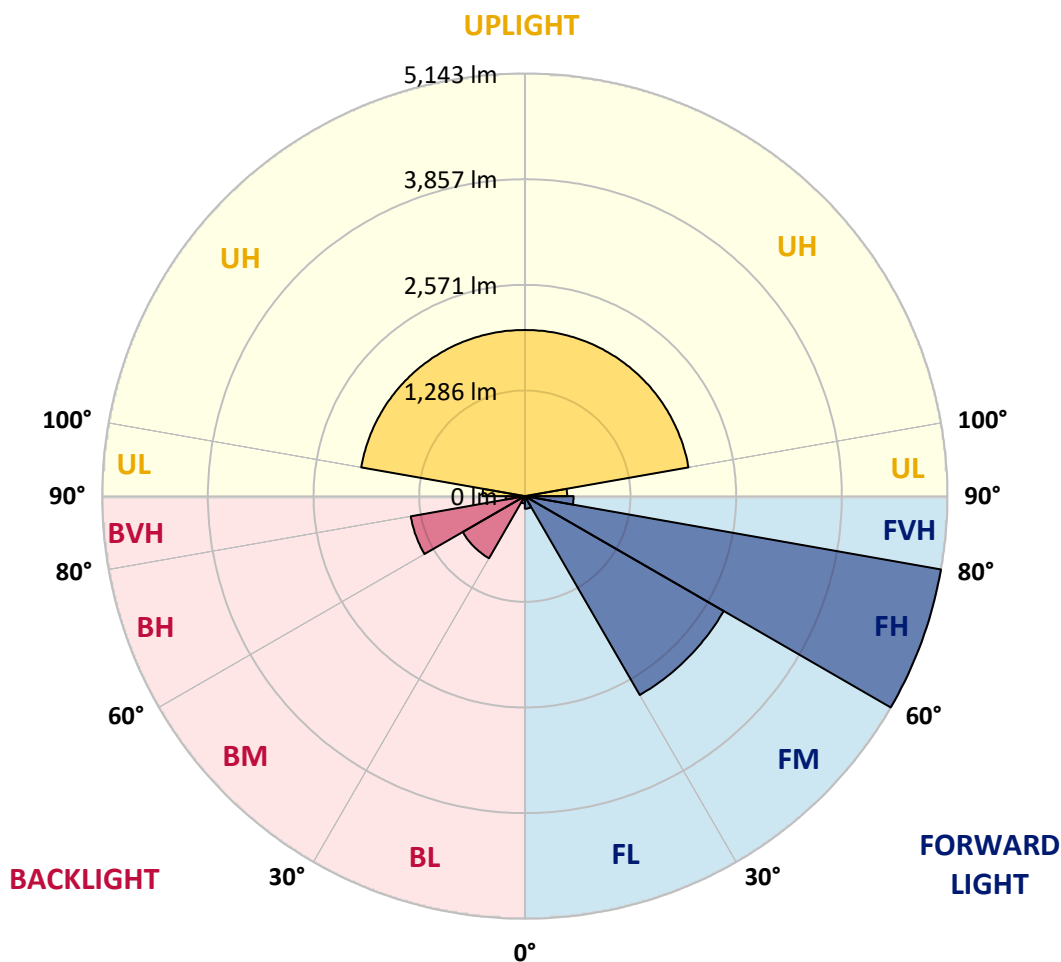
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.4	1.1			
FM (30°-60°)	2794.9	20.2			
FH (60°-80°)	5142.8	37.2			G3/7500
FVH (80°-90°)	593.1	4.3			G4/750
BL (0°-30°)	87.5	0.6	B0/110		
BM (30°-60°)	872.8	6.3	B1/1000		
BH (60°-80°)	1409.9	10.2	B3/2500		G3/2500
BVH (80°-90°)	234.1	1.7			G3/500
UL (90°-100°)	514.7	3.7		U4/1000	
UH (100°-180°)	2022.0	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°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	109.7	109.7	112.5	112.5	112.5	109.7	108.3	105.4	105.4	105.4	104.0
5°	142.5	141.0	142.5	146.7	148.2	143.9	141.0	136.8	136.8	135.3	135.3
7.5°	192.3	190.9	188.1	183.8	185.2	189.5	195.2	183.8	180.9	173.8	171.0
10°	240.8	237.9	240.8	233.6	226.5	216.6	222.2	219.4	213.7	206.6	200.9
12.5°	293.5	294.9	300.6	294.9	283.5	267.8	265.0	257.9	252.2	250.7	242.2
15°	347.6	349.0	354.7	353.3	341.9	320.6	312.0	304.9	302.0	293.5	275.0
17.5°	376.1	377.5	379.0	380.4	373.3	356.2	343.3	330.5	326.3	323.4	300.6
20°	390.4	387.5	390.4	396.1	401.8	387.5	374.7	367.6	363.3	353.3	323.4
22.5°	413.2	410.3	408.9	413.2	430.3	420.3	407.5	400.3	396.1	383.2	337.6
25°	437.4	434.5	438.8	436.0	457.3	453.0	440.2	433.1	427.4	411.7	359.0
27.5°	464.4	461.6	465.9	463.0	480.1	483.0	474.4	468.7	460.2	437.4	374.7
30°	487.2	484.4	488.7	487.2	504.3	514.3	510.0	508.6	495.8	468.7	401.8
32.5°	505.8	504.3	514.3	518.6	522.9	545.7	542.8	555.6	541.4	508.6	441.6
35°	548.5	552.8	579.8	608.3	612.6	658.2	663.9	710.9	696.7	653.9	572.7
37.5°	847.7	832.0	804.9	777.9	767.9	856.2	869.1	916.1	880.4	800.7	669.6
40°	903.2	877.6	846.3	824.9	827.7	985.9	958.8	1136.9	1035.7	916.1	817.8
42.5°	857.7	849.1	958.8	1010.1	973.1	1203.9	1158.3	1497.3	1381.9	1088.5	987.3
45°	1075.6	1058.5	1097.0	1148.3	1159.7	1584.2	1552.9	1907.6	1860.6	1360.6	1266.5
47.5°	1230.9	1215.2	1266.5	1440.3	1589.9	2048.7	2219.6	2731.1	2565.8	1933.3	1715.3
50°	1696.8	1693.9	1852.1	2058.7	2320.8	2980.4	3434.9	4009.0	3742.6	2736.8	2352.1
52.5°	2157.0	2162.7	2356.4	2722.6	2994.7	4160.1	4805.4	5207.2	5242.8	3568.8	3048.8
55°	2504.6	2540.2	2773.8	3387.9	3799.6	5210.0	6047.7	6359.7	6715.9	4822.5	3774.0
57.5°	3182.7	3236.9	3459.1	4060.3	4635.9	6517.9	7649.1	7683.3	8214.7	6213.0	4551.8
60°	3775.4	3902.2	3980.5	4526.2	5311.2	7767.3	8838.7	8770.3	9268.9	7365.6	5341.1
62.5°	3959.2	4104.5	4178.6	4759.8	5845.4	8468.3	9394.3	9479.8	9823.1	8174.8	5824.1
65°	4078.8	4249.8	4360.9	4875.2	5851.1	8767.4	9816.0	9907.2	10119.5	8513.9	6064.8
67.5°	4017.6	4235.6	4378.0	4835.3	5543.4	8536.7	9732.0	9556.7	9781.8	8230.3	5795.6
70°	3507.5	3735.5	3879.4	4219.9	4634.5	7177.5	8389.9	8096.4	8294.5	6869.8	4765.5
72.5°	2857.9	2970.4	3058.8	3245.4	3493.3	5294.1	6375.4	6131.8	6250.0	5168.7	3571.7
75°	2347.9	2382.1	2491.8	2598.6	2639.9	3872.3	5050.5	4828.2	4966.4	3935.0	2842.2
77.5°	1705.3	1725.3	1882.0	1899.1	1889.1	2657.0	3980.5	3785.4	3829.5	2924.9	2121.3
80°	990.1	1028.6	1233.8	1223.8	1206.7	1637.0	2802.3	2724.0	2587.2	1986.0	1468.8
82.5°	698.1	736.6	830.6	852.0	840.6	1175.4	1819.3	1768.0	1619.9	1381.9	1015.8
85°	735.1	739.4	743.7	753.7	735.1	1048.6	1393.3	1367.7	1369.1	1142.6	837.7
87.5°	725.2	742.3	749.4	753.7	735.1	995.8	1295.0	1262.3	1277.9	1085.6	813.5
90°	636.8	668.2	671.0	678.1	668.2	889.0	1162.5	1131.2	1151.1	978.8	740.8
92.5°	520.0	537.1	557.0	584.1	572.7	760.8	988.7	965.9	990.1	847.7	651.1
95°	492.9	511.5	524.3	542.8	525.7	693.8	893.3	847.7	867.6	742.3	561.3
97.5°	407.5	423.1	434.5	441.6	428.8	547.1	685.3	653.9	652.5	574.1	448.8
100°	347.6	357.6	367.6	374.7	363.3	453.0	542.8	531.4	534.3	474.4	386.1
102.5°	330.5	336.2	351.9	353.3	340.5	413.2	488.7	484.4	490.1	438.8	361.9
105°	323.4	327.7	340.5	336.2	324.8	386.1	450.2	453.0	453.0	408.9	339.1
107.5°	302.0	309.2	323.4	316.3	310.6	356.2	414.6	404.6	407.5	380.4	322.0
110°	299.2	304.9	319.1	313.4	309.2	347.6	398.9	396.1	400.3	376.1	330.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	371.8	366.1	377.5	366.1	373.3	406.0	460.2	454.5	467.3	458.7	413.2
115°	458.7	461.6	473.0	450.2	457.3	490.1	520.0	530.0	541.4	528.6	481.5
117.5°	424.6	448.8	434.5	431.7	426.0	451.6	447.3	473.0	484.4	474.4	455.9
120°	454.5	484.4	443.1	421.7	413.2	477.3	508.6	507.2	498.6	478.7	440.2
122.5°	679.6	683.8	686.7	750.8	728.0	790.7	809.2	785.0	785.0	810.6	732.3
125°	1060.0	1064.2	1061.4	1089.9	1074.2	1134.0	1158.3	1156.8	1142.6	1129.8	1052.8
127.5°	1071.4	1071.4	1061.4	1045.7	1060.0	1118.4	1119.8	1173.9	1155.4	1121.2	1050.0
130°	748.0	753.7	789.3	800.7	820.6	833.4	819.2	866.2	874.8	869.1	820.6
132.5°	619.7	629.7	668.2	682.4	695.2	696.7	691.0	728.0	736.6	736.6	715.2
135°	535.7	547.1	551.3	544.2	562.7	577.0	588.4	618.3	615.5	609.8	591.2
137.5°	467.3	471.6	458.7	443.1	453.0	494.4	517.2	548.5	547.1	537.1	505.8
140°	394.6	396.1	388.9	381.8	391.8	427.4	448.8	483.0	478.7	471.6	434.5
142.5°	299.2	303.5	322.0	336.2	360.4	434.5	423.1	453.0	474.4	491.5	406.0
145°	314.9	309.2	306.3	322.0	353.3	460.2	427.4	465.9	475.8	487.2	388.9
147.5°	363.3	366.1	361.9	351.9	394.6	428.8	410.3	444.5	450.2	447.3	407.5
150°	284.9	289.2	290.6	286.4	339.1	337.6	319.1	344.8	347.6	347.6	320.6
152.5°	232.2	233.6	230.8	227.9	262.1	256.4	247.9	256.4	255.0	253.6	247.9
155°	220.8	220.8	218.0	219.4	242.2	236.5	230.8	236.5	233.6	229.4	223.7
157.5°	203.7	205.2	205.2	209.4	223.7	213.7	208.0	210.9	208.0	205.2	205.2
160°	192.3	192.3	193.8	199.5	208.0	198.0	193.8	195.2	193.8	190.9	192.3
162.5°	188.1	188.1	189.5	192.3	193.8	188.1	183.8	183.8	183.8	183.8	188.1
165°	185.2	185.2	185.2	186.6	186.6	182.4	180.9	182.4	183.8	185.2	190.9
167.5°	190.9	190.9	190.9	190.9	189.5	186.6	185.2	186.6	188.1	189.5	193.8
170°	199.5	198.0	198.0	196.6	195.2	192.3	190.9	189.5	189.5	190.9	192.3
172.5°	205.2	205.2	203.7	203.7	202.3	199.5	196.6	195.2	195.2	195.2	195.2
175°	212.3	212.3	212.3	212.3	210.9	208.0	206.6	203.7	203.7	203.7	203.7
177.5°	220.8	220.8	220.8	220.8	218.0	215.1	212.3	209.4	209.4	209.4	208.0
180°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	102.6	101.2	96.9	95.5	94.0	91.2	88.3	86.9	85.5	85.5	86.9
5°	136.8	135.3	135.3	131.1	126.8	119.7	116.8	116.8	118.2	119.7	122.5
7.5°	172.4	175.2	178.1	171.0	158.1	141.0	131.1	133.9	141.0	146.7	146.7
10°	199.5	199.5	209.4	200.9	179.5	158.1	143.9	141.0	142.5	143.9	145.3
12.5°	237.9	237.9	232.2	209.4	188.1	166.7	155.3	152.4	152.4	146.7	145.3
15°	266.4	257.9	237.9	216.6	198.0	176.7	163.8	159.6	155.3	151.0	149.6
17.5°	283.5	267.8	240.8	220.8	202.3	185.2	172.4	163.8	159.6	161.0	161.0
20°	303.5	286.4	262.1	240.8	218.0	195.2	179.5	166.7	162.4	163.8	162.4
22.5°	319.1	302.0	277.8	253.6	229.4	205.2	186.6	171.0	165.3	166.7	166.7
25°	337.6	323.4	297.8	269.3	239.3	216.6	198.0	179.5	171.0	169.5	169.5
27.5°	356.2	346.2	319.1	284.9	253.6	226.5	208.0	186.6	176.7	172.4	172.4
30°	380.4	369.0	341.9	300.6	266.4	240.8	220.8	198.0	183.8	176.7	175.2
32.5°	418.9	406.0	373.3	329.1	280.7	255.0	233.6	208.0	189.5	180.9	179.5
35°	544.2	524.3	473.0	421.7	343.3	284.9	249.3	216.6	195.2	183.8	182.4
37.5°	622.6	574.1	505.8	471.6	386.1	349.0	300.6	247.9	203.7	189.5	186.6
40°	749.4	682.4	596.9	530.0	376.1	381.8	351.9	309.2	242.2	199.5	195.2
42.5°	856.2	772.2	642.5	555.6	377.5	398.9	376.1	340.5	290.6	236.5	227.9
45°	1055.7	947.4	746.5	596.9	387.5	424.6	396.1	359.0	314.9	277.8	273.5
47.5°	1426.1	1279.4	933.2	665.3	453.0	492.9	441.6	393.2	353.3	310.6	303.5
50°	1951.8	1776.6	1148.3	719.5	565.6	649.7	557.0	475.8	430.3	398.9	394.6
52.5°	2557.3	2373.5	1306.4	819.2	702.4	843.4	736.6	642.5	582.7	582.7	591.2
55°	3261.1	3077.3	1433.2	957.4	870.5	1057.1	941.7	864.8	836.3	957.4	990.1
57.5°	3959.2	3725.5	1518.7	1098.4	1067.1	1307.9	1169.7	1104.1	1156.8	1515.9	1627.0
60°	4596.0	4209.9	1585.7	1232.3	1235.2	1507.3	1404.7	1400.5	1481.7	1940.4	2081.5
62.5°	4963.6	4437.9	1581.4	1309.3	1333.5	1631.3	1545.8	1568.6	1614.2	2011.6	2118.5
65°	5215.7	4546.1	1548.6	1343.5	1374.8	1675.4	1568.6	1530.1	1500.2	1780.8	1883.4
67.5°	5041.9	4292.5	1474.5	1293.6	1349.2	1611.3	1470.3	1360.6	1302.2	1444.6	1514.4
70°	4222.7	3580.2	1305.0	1164.0	1215.2	1357.7	1222.4	1114.1	1052.8	1129.8	1162.5
72.5°	3198.4	2724.0	1176.8	1088.5	1065.7	1122.6	994.4	873.3	836.3	886.1	893.3
75°	2547.3	2131.3	1082.8	984.5	894.7	950.3	793.5	646.8	625.4	625.4	614.0
77.5°	1910.5	1580.0	923.2	766.5	659.6	750.8	591.2	450.2	421.7	416.0	400.3
80°	1280.8	1075.6	621.2	508.6	474.4	557.0	420.3	330.5	331.9	330.5	312.0
82.5°	894.7	830.6	504.3	443.1	406.0	438.8	380.4	317.7	314.9	317.7	297.8
85°	793.5	760.8	488.7	457.3	418.9	423.1	364.7	300.6	302.0	307.7	290.6
87.5°	762.2	725.2	490.1	441.6	408.9	391.8	330.5	277.8	286.4	292.1	277.8
90°	686.7	649.7	450.2	398.9	364.7	340.5	292.1	263.6	275.0	280.7	267.8
92.5°	595.5	557.0	374.7	351.9	343.3	343.3	306.3	280.7	287.8	290.6	279.2
95°	512.9	475.8	333.4	309.2	302.0	303.5	273.5	252.2	256.4	255.0	246.5
97.5°	414.6	391.8	290.6	275.0	267.8	265.0	245.0	229.4	237.9	243.6	236.5
100°	366.1	354.7	280.7	269.3	259.3	257.9	240.8	230.8	237.9	246.5	240.8
102.5°	341.9	333.4	267.8	252.2	245.0	242.2	230.8	219.4	226.5	235.1	230.8
105°	322.0	309.2	256.4	242.2	232.2	230.8	219.4	205.2	209.4	220.8	218.0
107.5°	304.9	296.3	255.0	239.3	226.5	226.5	213.7	202.3	203.7	208.0	208.0
110°	319.1	309.2	265.0	253.6	236.5	230.8	227.9	219.4	212.3	209.4	209.4



REPORT NUMBER: P856110  
 CATALOG NUMBER: FFX-CLB-100-727-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	394.6	376.1	331.9	319.1	290.6	270.7	252.2	235.1	223.7	219.4	216.6
115°	465.9	444.5	391.8	359.0	320.6	290.6	265.0	246.5	229.4	223.7	229.4
117.5°	480.1	423.1	341.9	314.9	292.1	273.5	259.3	245.0	232.2	236.5	232.2
120°	475.8	406.0	344.8	383.2	344.8	302.0	267.8	267.8	263.6	242.2	246.5
122.5°	732.3	683.8	609.8	587.0	478.7	437.4	373.3	319.1	266.4	236.5	222.2
125°	1003.0	956.0	842.0	755.1	646.8	532.8	408.9	314.9	246.5	218.0	222.2
127.5°	1008.7	965.9	857.7	710.9	568.4	455.9	340.5	279.2	240.8	222.2	219.4
130°	786.4	745.1	652.5	540.0	450.2	376.1	306.3	252.2	218.0	203.7	199.5
132.5°	681.0	644.0	558.5	455.9	390.4	331.9	273.5	219.4	196.6	186.6	188.1
135°	572.7	528.6	447.3	391.8	350.5	297.8	245.0	200.9	189.5	186.6	185.2
137.5°	485.8	454.5	397.5	354.7	314.9	267.8	215.1	188.1	183.8	186.6	183.8
140°	413.2	387.5	356.2	319.1	270.7	226.5	192.3	179.5	186.6	188.1	186.6
142.5°	356.2	330.5	297.8	247.9	225.1	205.2	196.6	186.6	186.6	185.2	183.8
145°	297.8	263.6	247.9	255.0	240.8	220.8	205.2	185.2	178.1	178.1	179.5
147.5°	341.9	306.3	286.4	270.7	243.6	215.1	190.9	172.4	169.5	175.2	173.8
150°	294.9	262.1	247.9	226.5	209.4	188.1	172.4	165.3	166.7	173.8	173.8
152.5°	235.1	212.3	203.7	198.0	189.5	176.7	168.1	165.3	168.1	171.0	171.0
155°	220.8	208.0	198.0	193.8	183.8	173.8	166.7	165.3	168.1	171.0	173.8
157.5°	206.6	202.3	189.5	185.2	176.7	172.4	168.1	168.1	169.5	172.4	175.2
160°	196.6	195.2	183.8	182.4	176.7	173.8	173.8	175.2	176.7	176.7	176.7
162.5°	190.9	190.9	186.6	183.8	182.4	180.9	185.2	186.6	185.2	185.2	185.2
165°	192.3	193.8	189.5	186.6	185.2	188.1	195.2	195.2	192.3	190.9	189.5
167.5°	193.8	195.2	192.3	190.9	190.9	193.8	196.6	195.2	193.8	192.3	190.9
170°	192.3	193.8	193.8	195.2	195.2	195.2	198.0	198.0	195.2	193.8	193.8
172.5°	195.2	196.6	198.0	199.5	200.9	199.5	200.9	200.9	200.9	200.9	202.3
175°	203.7	203.7	205.2	205.2	203.7	205.2	205.2	205.2	206.6	209.4	209.4
177.5°	208.0	208.0	206.6	206.6	205.2	206.6	206.6	206.6	206.6	208.0	206.6
180°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9

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: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

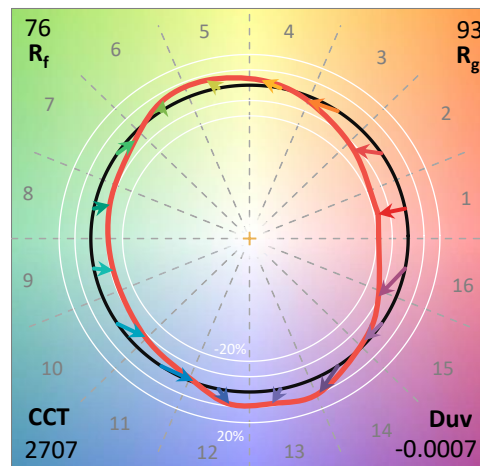
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-3  
 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-100-727-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 2707  
 CIE u': 0.2624  
 CIE v': 0.5261  
 Duv: -0.0007  
 CIE x: 0.4580  
 CIE y: 0.4082  
 CIE z: 0.1338  
 Peak Wavelength (nm): 599  
 Dominant Wavelength (nm): 584  
 Purity: 59.99901  
 Rf: 75.5  
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



**Test Conditions**

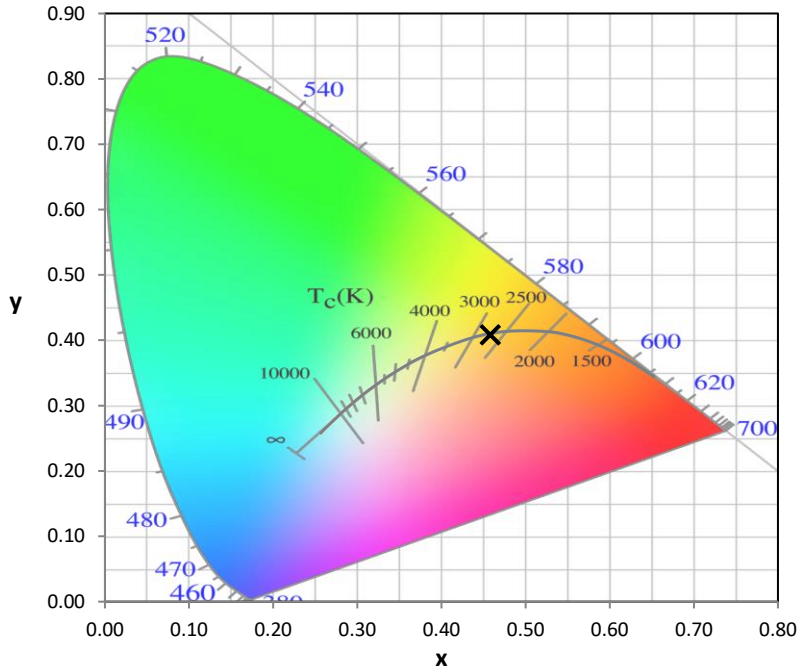
Stabilization Time: 0.813602M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

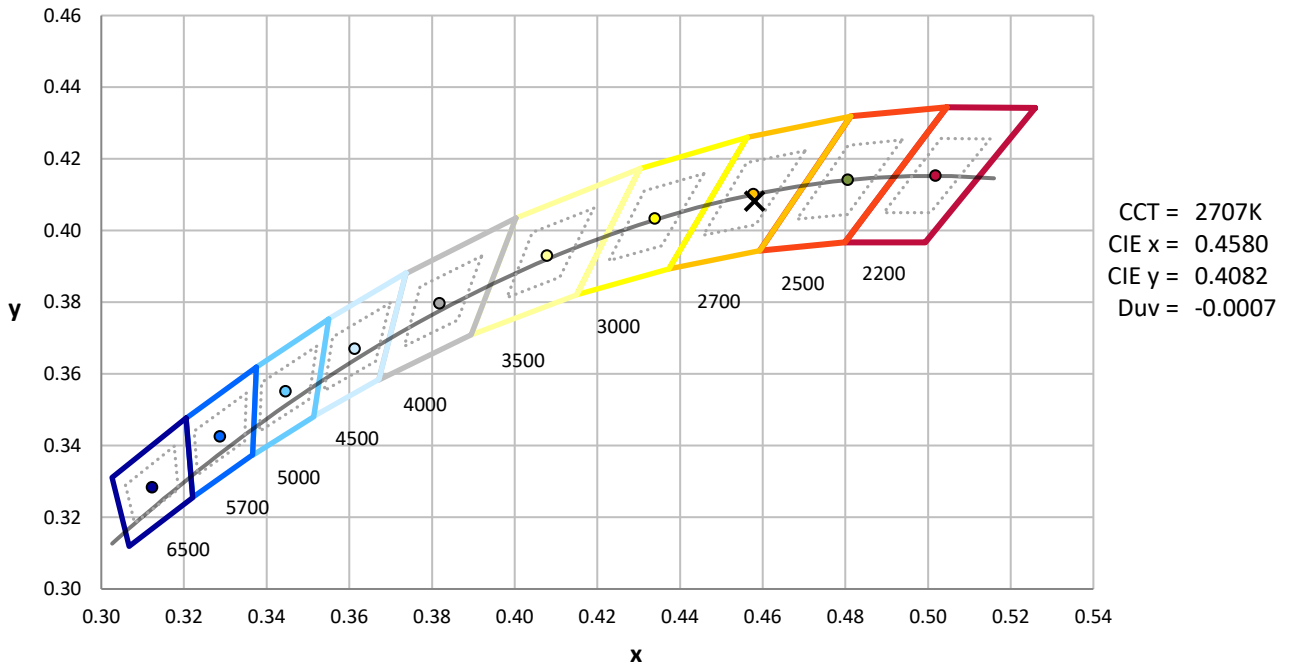
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



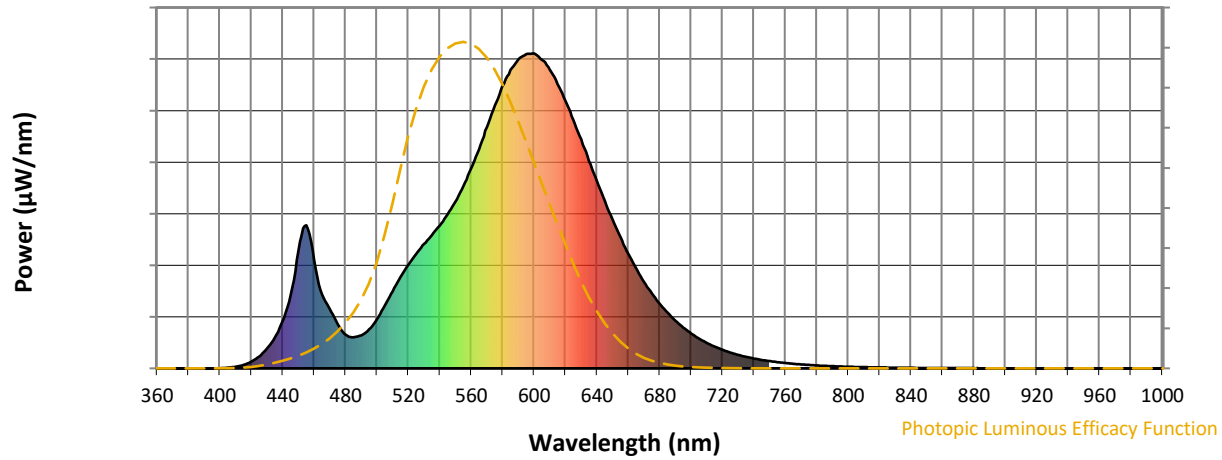
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

**Photopic Flux vs. Wavelength**

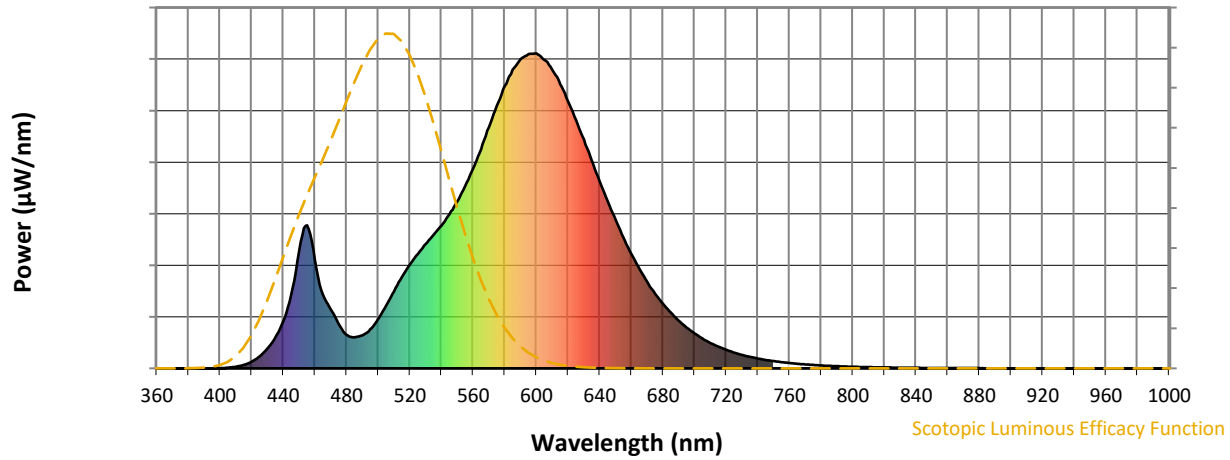


**Photopic Lumens: NR**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

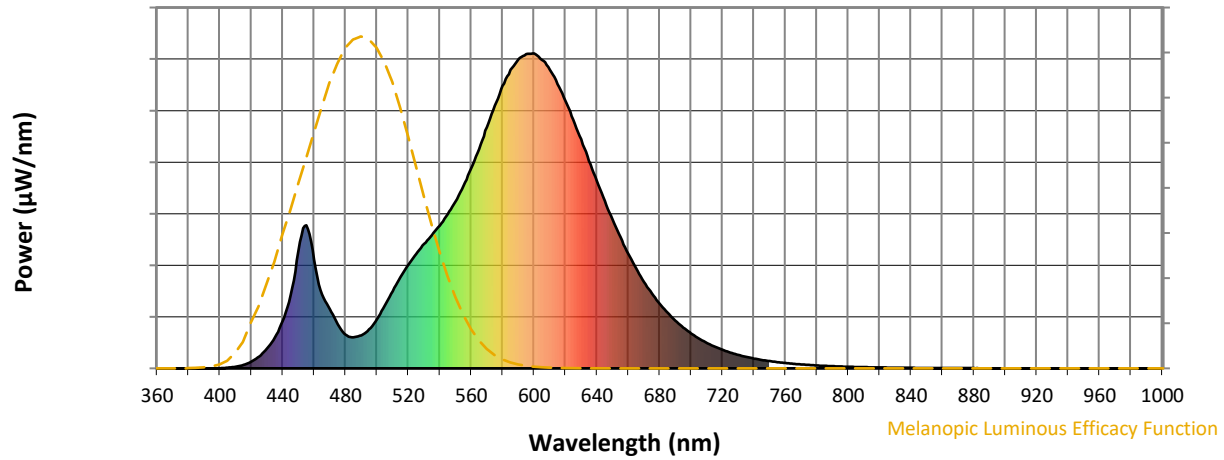
**S/P: 1.12**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			



REPORT NUMBER: SP1-2406-133-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

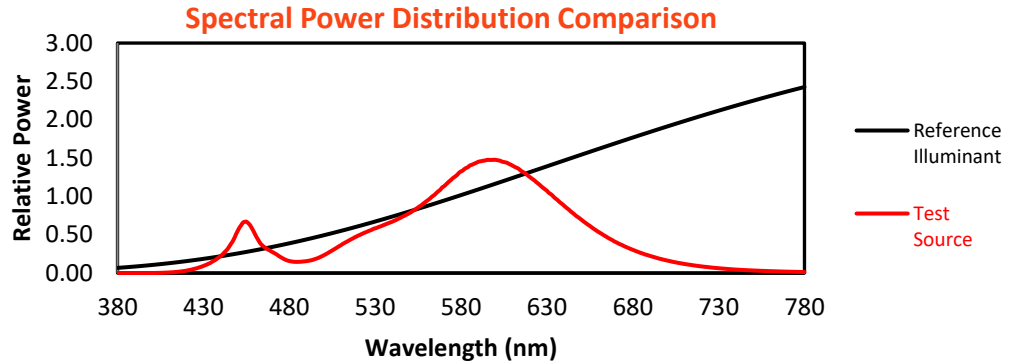
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

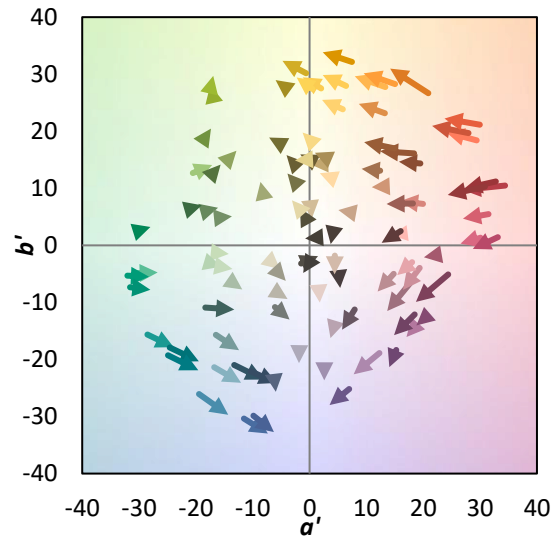
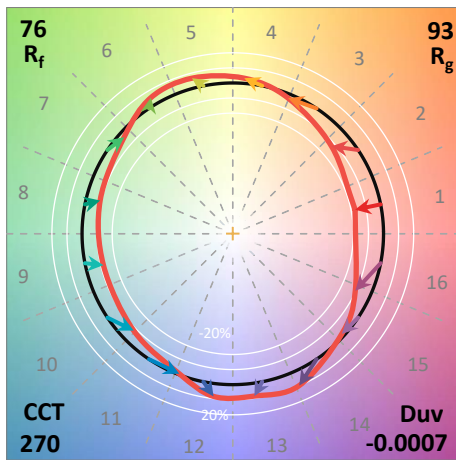
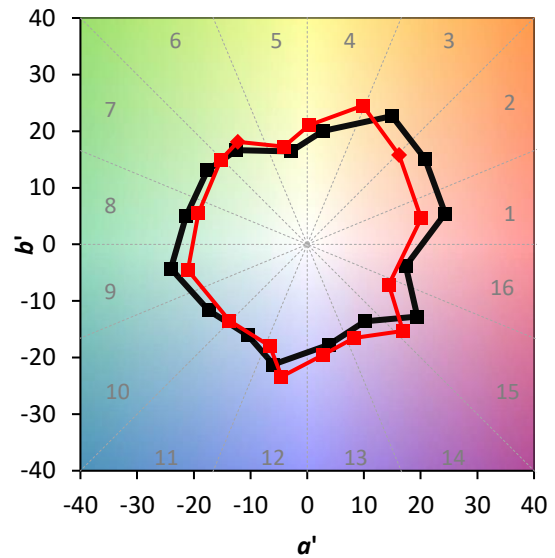
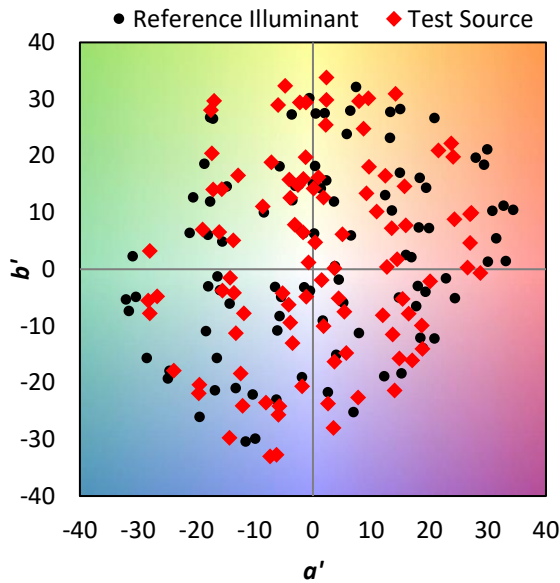
TM-30-18

**Summary**

$R_f = 75.5$   
 $R_g = 92.5$   
 CIE  $R_a = 71.3$   
 $R_9 = -34.9$



**Color Vector Graphics**

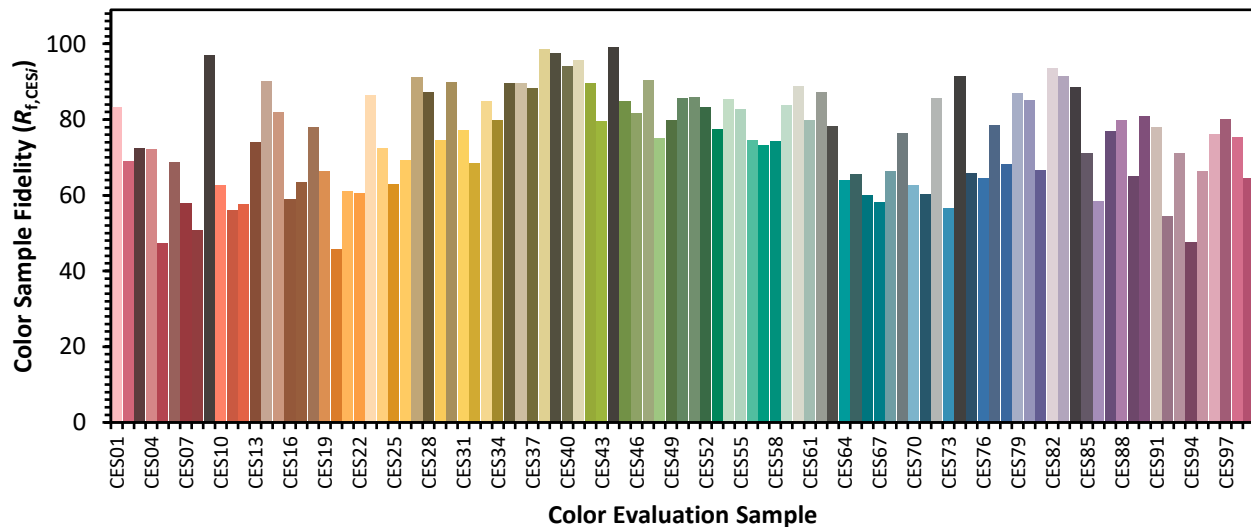


REPORT NUMBER: SP1-2406-133-3

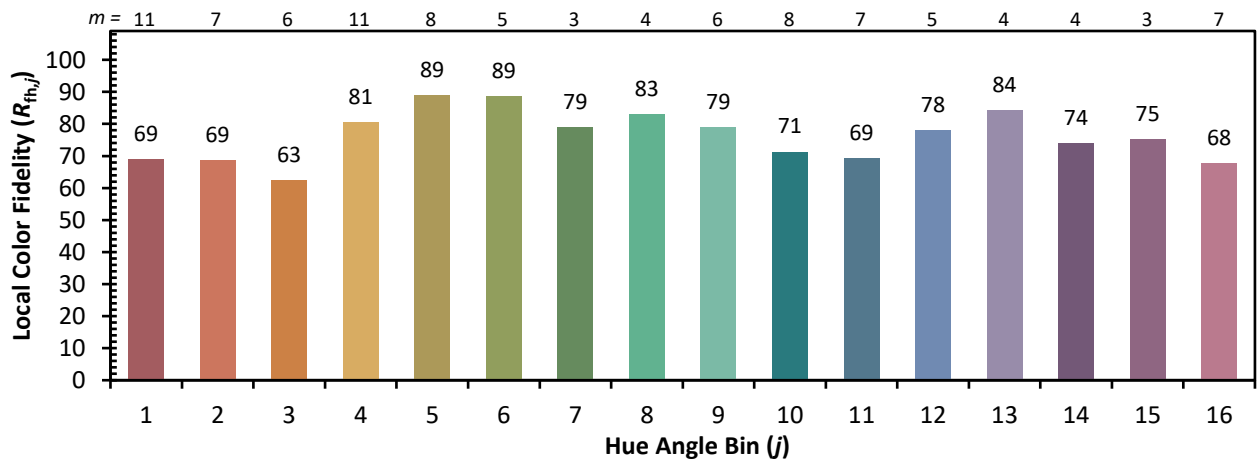
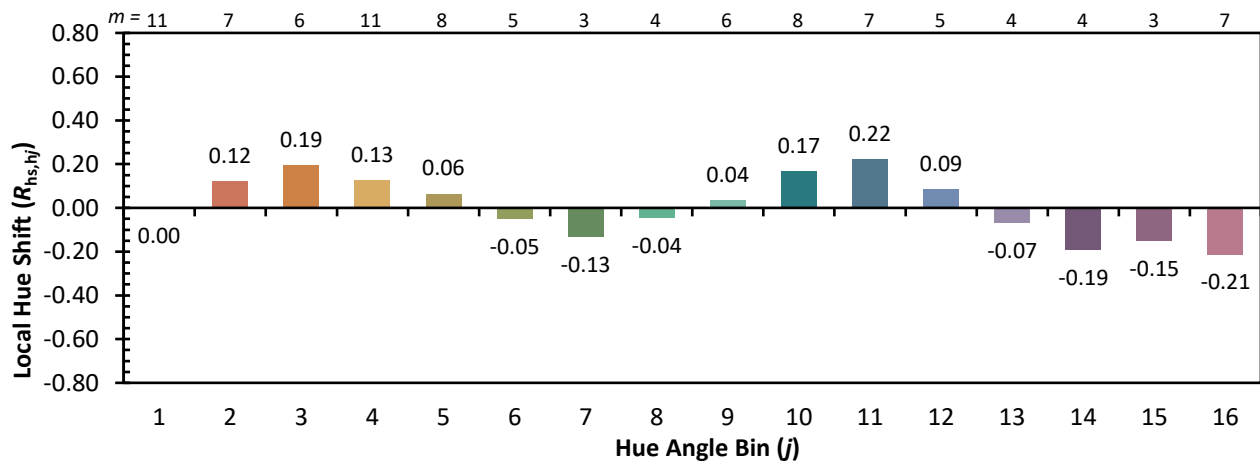
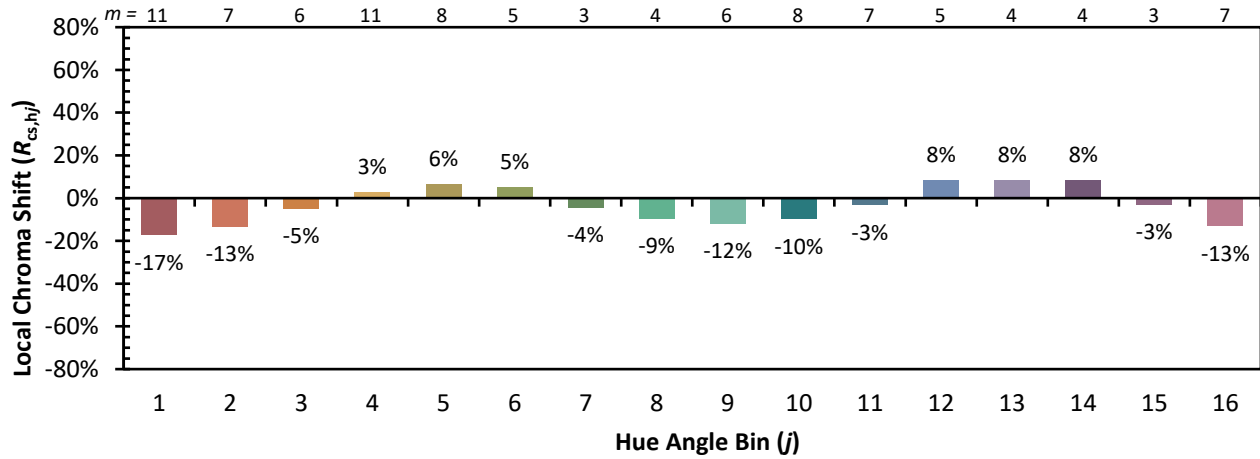
TM-30-18

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

CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



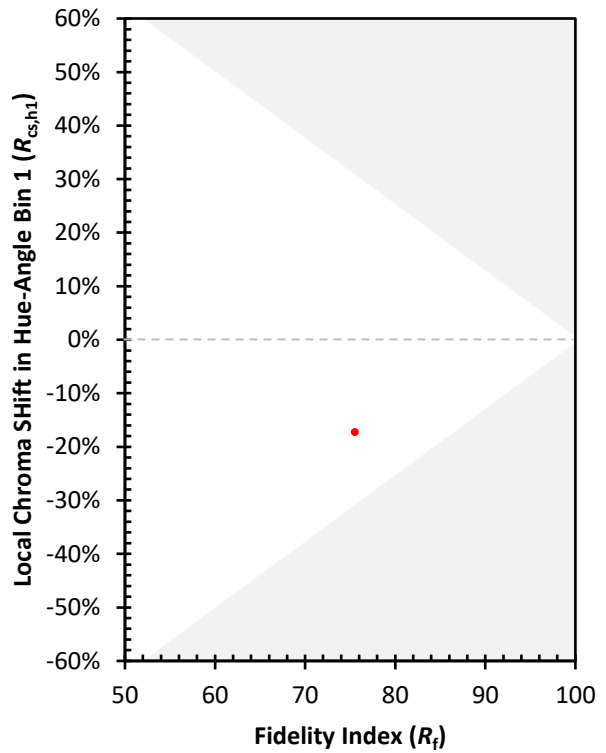
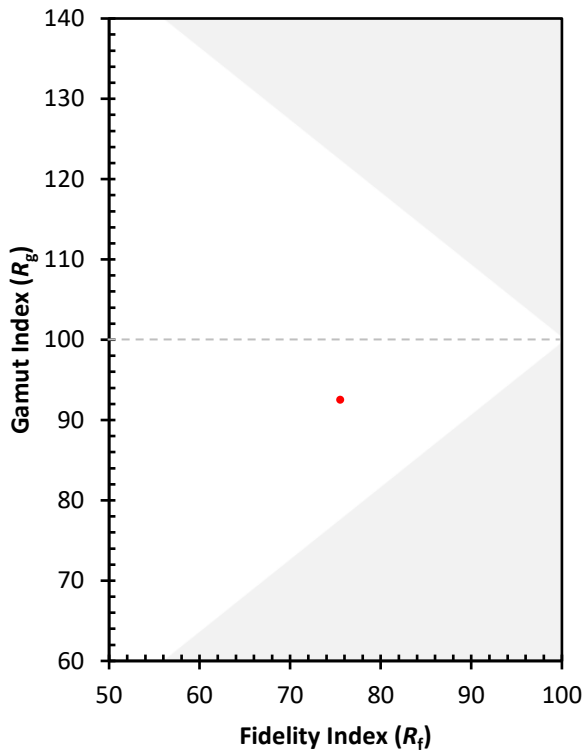
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)