

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: P856202

Luminaire Tested: **FFX-CLB-80-727-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856202  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-80-727-U-FR-T3-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (4) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

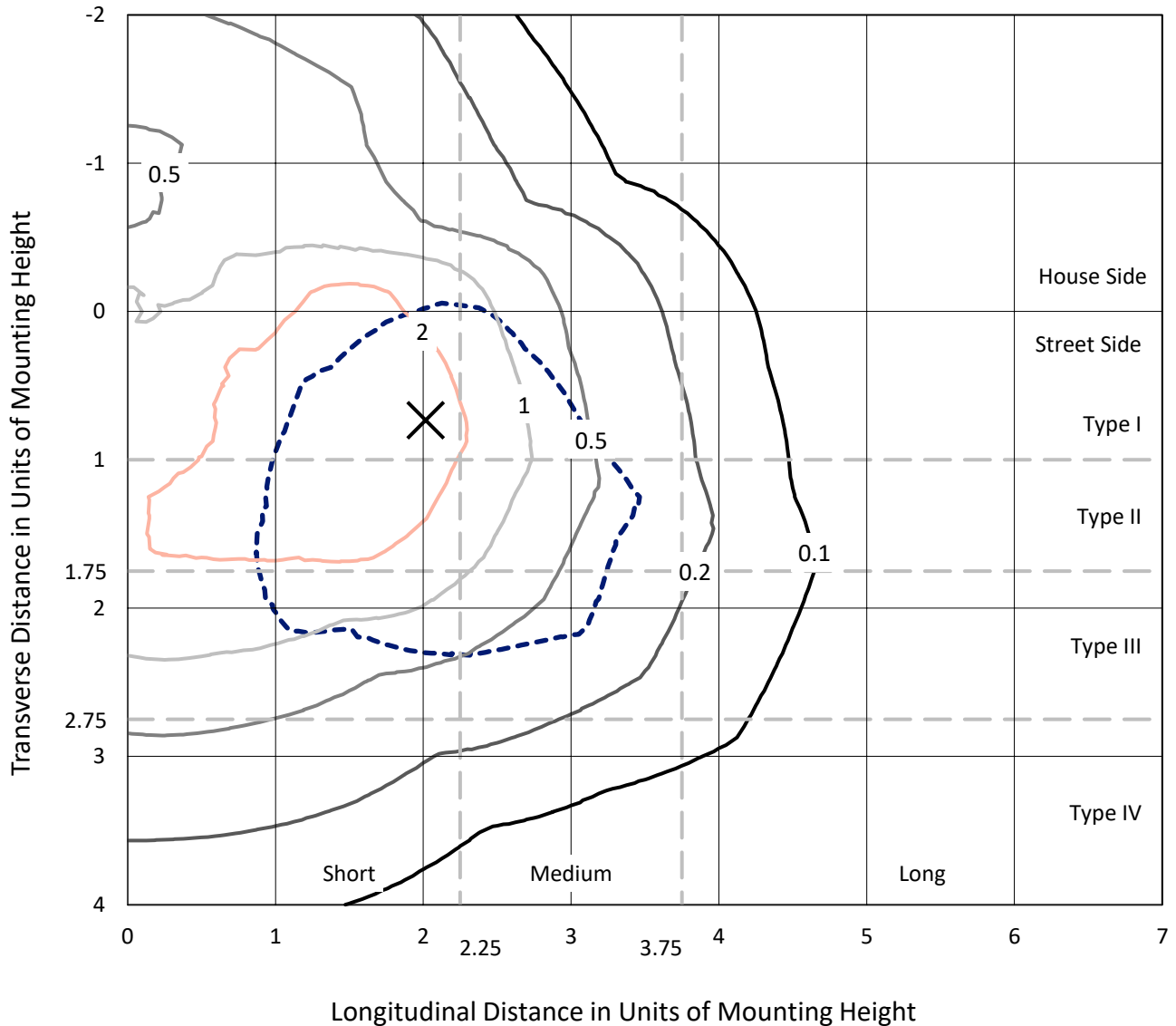
Lumens per Lamp: N/A  
Luminaire Lumens: 11566.4 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U4 - G4

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.1%%  
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

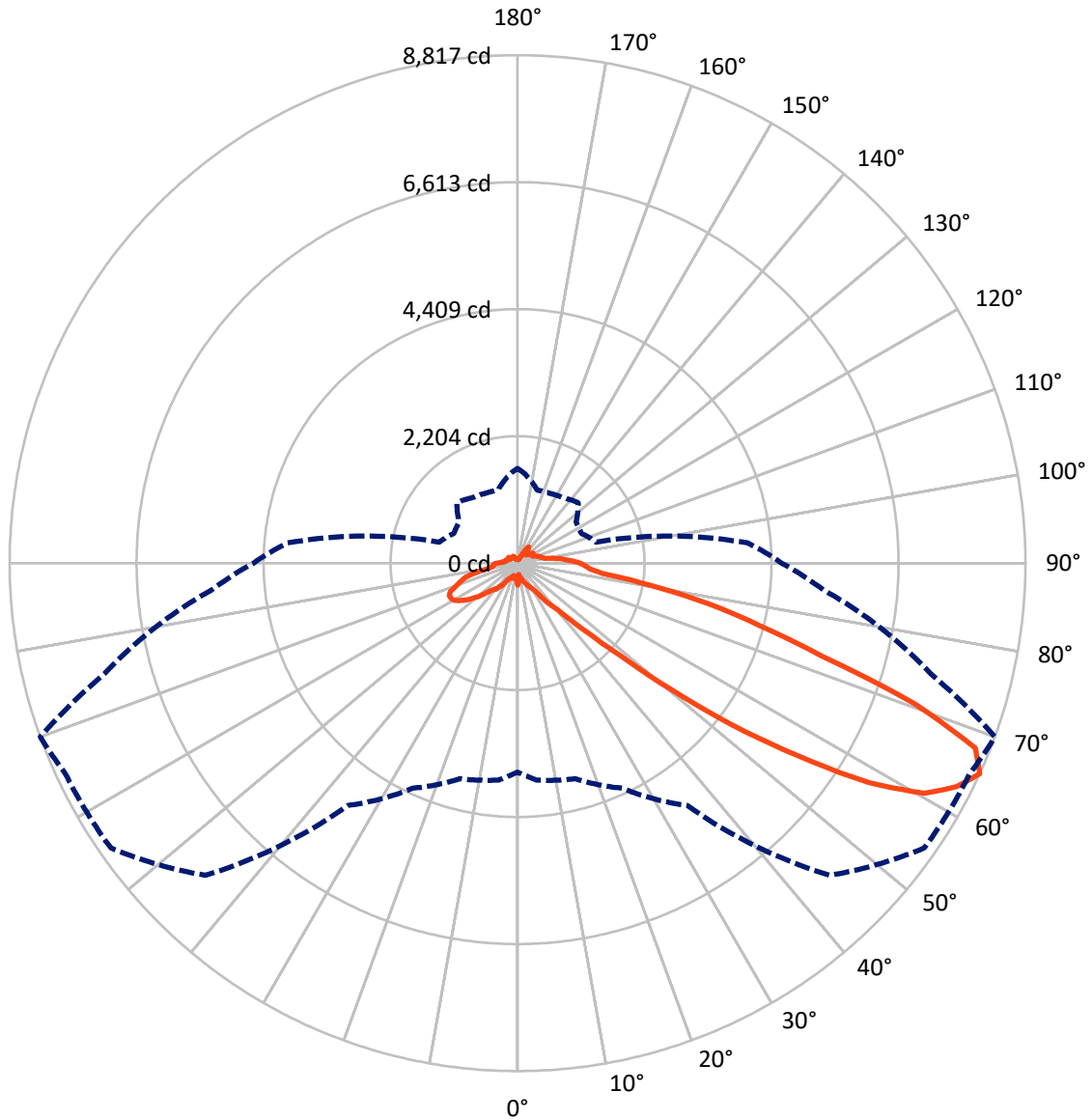
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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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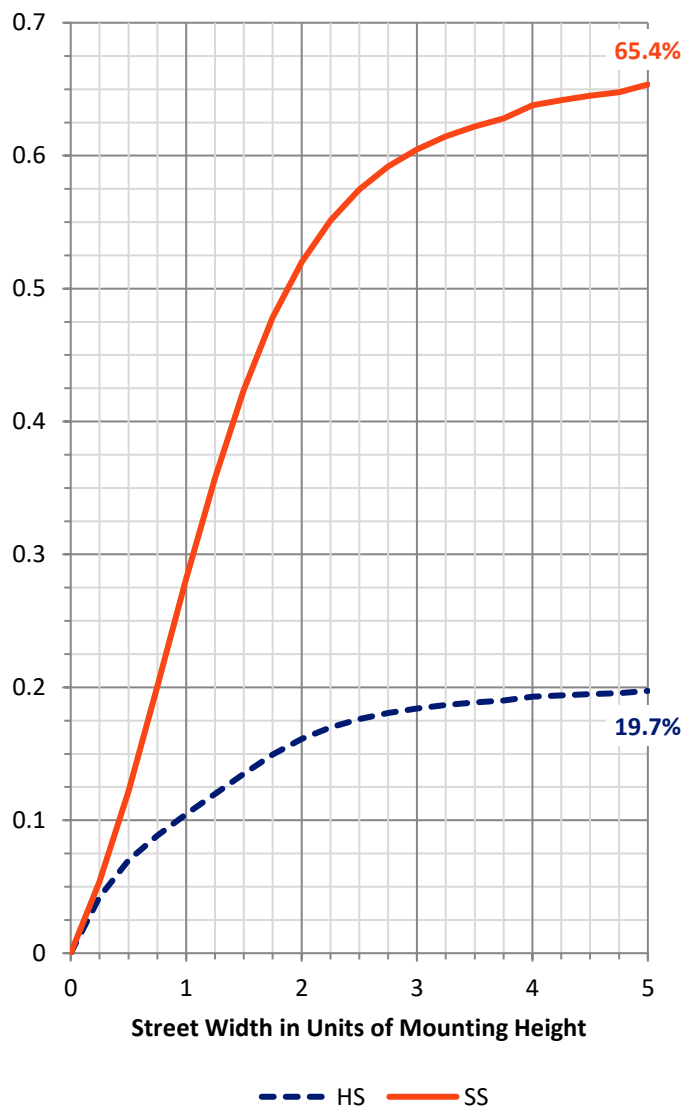
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2372.3	444.4	2816.7
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	7822.5	927.2	8749.7
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	10194.8	1371.6	11566.4
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.7	0.2
10°-20°	77.3	0.7
20°-30°	156.1	1.3
30°-40°	330.3	2.9
40°-50°	770.3	6.7
50°-60°	2295.5	19.8
60°-70°	3678.2	31.8
70°-80°	2113.0	18.3
80°-90°	749.4	6.5
90°-100°	442.0	3.8
100°-110°	267.0	2.3
110°-120°	200.8	1.7
120°-130°	170.0	1.5
130°-140°	112.9	1.0
140°-150°	106.0	0.9
150°-160°	47.0	0.4
160°-170°	19.4	0.2
170°-180°	6.4	0.1
0°-90°	10194.8	88.1
0°-180°	11566.4	100.0



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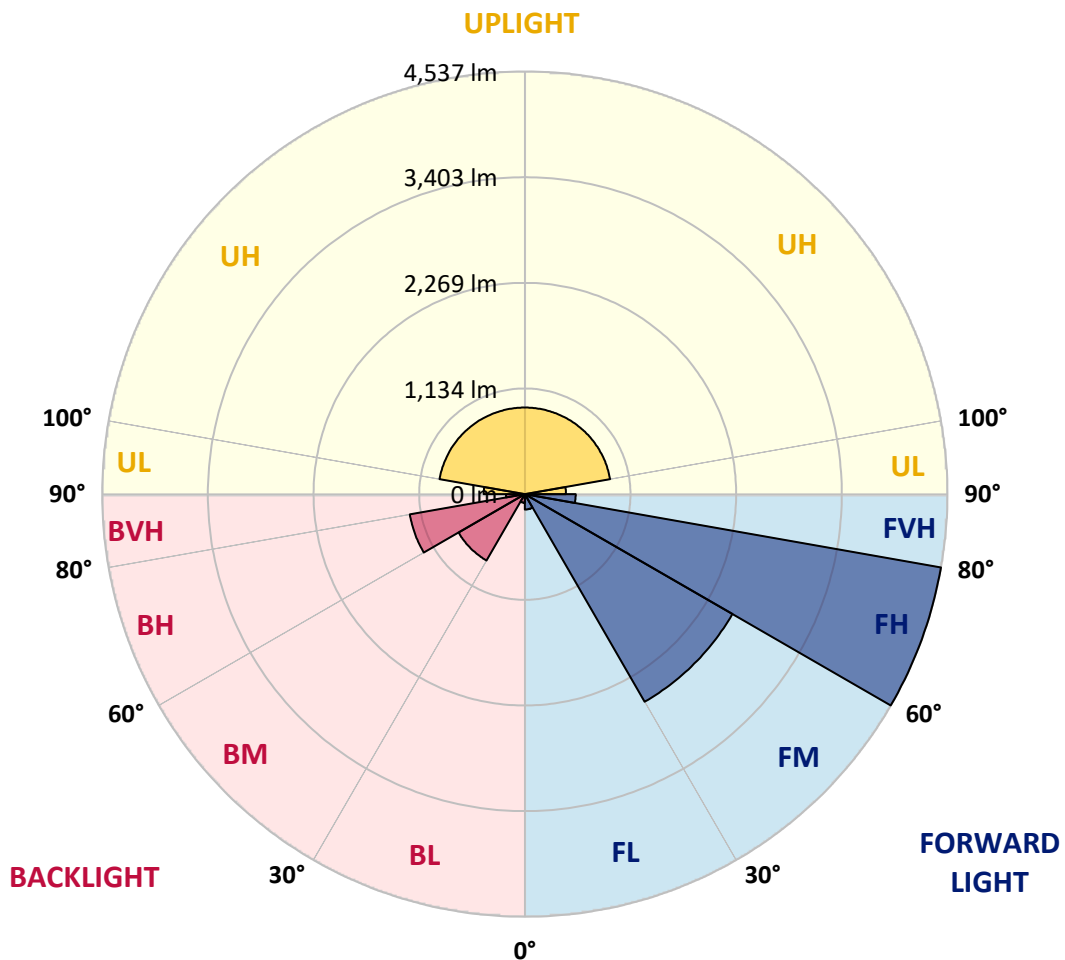
CATALOG NUMBER: FFX-CLB-80-727-U-FR-T3-UPLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.7	1.4			
FM (30°-60°)	2573.6	22.3			
FH (60°-80°)	4537.3	39.2			G2/5000
FVH (80°-90°)	545.9	4.7			G4/750
BL (0°-30°)	92.4	0.8	B0/110		
BM (30°-60°)	822.5	7.1	B1/1000		
BH (60°-80°)	1253.9	10.8	B3/2500		G3/2500
BVH (80°-90°)	203.5	1.8			G2/225
UL (90°-100°)	442.0	3.8		U3/500	
UH (100°-180°)	929.6	8.0		U4/1000	

**BUG Rating: B3-U4-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7
2.5°	319.9	317.5	323.6	328.5	334.6	326.1	311.3	326.1	331.0	345.7	356.7
5°	272.1	273.4	279.5	293.0	305.2	302.8	264.8	215.7	201.0	194.9	196.1
7.5°	269.7	268.4	264.8	263.5	270.9	297.9	294.2	258.6	231.7	208.4	185.1
10°	284.4	288.1	291.7	291.7	286.8	269.7	268.4	266.0	256.2	245.2	230.4
12.5°	351.8	356.7	360.4	348.1	332.2	315.0	301.5	279.5	269.7	263.5	252.5
15°	425.3	430.3	424.1	400.8	372.6	340.8	328.5	329.7	316.3	300.3	277.0
17.5°	464.6	462.1	436.4	409.4	387.3	362.8	345.7	334.6	329.7	323.6	300.3
20°	440.1	433.9	418.0	407.0	404.5	391.0	380.0	370.2	364.1	350.6	322.4
22.5°	421.7	421.7	419.2	416.8	431.5	425.3	420.4	407.0	398.4	381.2	339.5
25°	445.0	445.0	446.2	442.5	462.1	462.1	462.1	447.4	436.4	411.9	361.6
27.5°	478.1	476.8	480.5	478.1	495.2	498.9	506.2	495.2	479.3	449.9	386.1
30°	513.6	513.6	517.3	519.7	536.9	545.5	554.1	549.2	529.5	494.0	427.8
32.5°	551.6	550.4	561.4	573.7	583.5	599.4	603.1	615.3	595.7	554.1	489.1
35°	606.8	610.4	639.9	665.6	693.8	703.6	720.8	768.6	749.0	692.6	617.8
37.5°	877.7	859.3	851.9	822.5	818.8	876.4	897.3	942.6	903.4	827.4	713.4
40°	930.4	908.3	898.5	870.3	880.1	999.0	978.2	1141.2	1045.6	924.2	850.7
42.5°	876.4	872.8	988.0	1010.0	997.8	1186.6	1146.1	1447.7	1345.9	1064.0	981.9
45°	1057.9	1048.0	1097.1	1136.3	1166.9	1506.5	1482.0	1799.5	1755.3	1295.7	1214.8
47.5°	1193.9	1184.1	1240.5	1371.7	1550.6	1918.4	2061.8	2541.1	2391.5	1782.3	1598.4
50°	1600.9	1594.7	1746.7	1887.7	2183.1	2726.1	3119.6	3636.9	3417.5	2489.6	2151.3
52.5°	1985.8	2005.4	2183.1	2454.0	2766.6	3747.2	4308.6	4671.5	4669.0	3242.2	2761.7
55°	2261.6	2327.8	2537.4	3026.5	3460.4	4653.1	5410.6	5679.1	5904.6	4325.8	3363.6
57.5°	2797.2	2912.5	3113.5	3597.7	4157.9	5748.9	6830.1	6786.0	7191.7	5449.8	4018.1
60°	3347.6	3482.5	3549.9	3994.8	4730.3	6804.3	7805.8	7702.8	8111.0	6428.0	4707.0
62.5°	3519.2	3651.6	3717.8	4202.0	5143.4	7402.5	8255.7	8296.1	8549.9	7125.5	5115.2
65°	3627.1	3779.1	3874.7	4311.1	5134.8	7663.6	8619.7	8657.7	8817.1	7425.8	5326.0
67.5°	3607.5	3777.9	3900.5	4291.5	4850.4	7446.7	8529.0	8357.4	8570.7	7211.3	5104.2
70°	3217.7	3366.0	3488.6	3790.1	4048.8	6273.6	7379.2	7096.1	7316.7	6024.7	4214.3
72.5°	2629.3	2690.6	2797.2	2939.4	3068.1	4654.3	5628.8	5386.1	5513.6	4519.5	3157.6
75°	2159.8	2147.6	2243.2	2346.2	2305.7	3400.3	4453.3	4231.4	4350.3	3432.2	2519.0
77.5°	1600.9	1594.7	1733.3	1724.7	1663.4	2354.7	3530.3	3369.7	3385.6	2534.9	1886.5
80°	962.2	980.6	1115.5	1142.4	1070.1	1477.1	2520.2	2444.2	2330.2	1732.0	1322.6
82.5°	675.4	703.6	774.7	804.1	768.6	1078.7	1669.5	1616.8	1482.0	1256.4	931.6
85°	688.9	693.8	702.4	704.8	688.9	968.4	1295.7	1266.2	1257.7	1053.0	768.6
87.5°	688.9	699.9	707.3	706.1	677.9	907.1	1195.1	1148.6	1159.6	984.3	742.8
90°	617.8	637.4	636.2	639.9	616.6	820.1	1083.6	1045.6	1060.3	887.5	675.4
92.5°	505.0	518.5	532.0	557.7	523.4	697.5	915.7	880.1	898.5	755.1	574.9
95°	469.5	481.7	490.3	503.8	469.5	620.2	810.2	767.3	774.7	641.1	486.6
97.5°	380.0	387.3	397.2	399.6	375.1	476.8	616.6	579.8	584.7	497.7	382.4
100°	318.7	324.8	333.4	333.4	317.5	394.7	487.9	468.3	465.8	407.0	323.6
102.5°	301.5	304.0	317.5	315.0	299.1	364.1	441.3	429.0	430.3	377.5	304.0
105°	296.6	296.6	310.1	304.0	290.5	346.9	413.1	409.4	408.2	359.2	291.7
107.5°	291.7	291.7	305.2	299.1	288.1	327.3	388.6	376.3	375.1	342.0	275.8
110°	272.1	275.8	290.5	283.2	274.6	308.9	356.7	348.1	348.1	322.4	263.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	241.5	243.9	257.4	251.3	245.2	274.6	316.3	305.2	306.4	289.3	246.4
115°	225.5	229.2	242.7	234.1	229.2	256.2	293.0	285.6	288.1	272.1	232.9
117.5°	226.8	228.0	237.8	239.0	229.2	251.3	270.9	273.4	277.0	267.2	236.6
120°	275.8	269.7	274.6	268.4	263.5	289.3	312.6	315.0	313.8	295.4	235.4
122.5°	278.3	266.0	279.5	270.9	266.0	294.2	319.9	326.1	319.9	304.0	240.3
125°	221.9	225.5	226.8	229.2	234.1	264.8	278.3	279.5	280.7	275.8	232.9
127.5°	194.9	193.7	187.5	188.8	199.8	226.8	236.6	243.9	239.0	236.6	209.6
130°	186.3	188.8	187.5	187.5	193.7	214.5	221.9	232.9	229.2	224.3	191.2
132.5°	171.6	174.1	185.1	198.6	196.1	203.5	205.9	217.0	218.2	218.2	192.4
135°	163.0	165.5	174.1	191.2	186.3	190.0	188.8	198.6	199.8	201.0	181.4
137.5°	166.7	167.9	163.0	165.5	169.2	185.1	190.0	199.8	199.8	194.9	169.2
140°	175.3	175.3	164.3	160.6	167.9	192.4	202.3	218.2	215.7	207.2	175.3
142.5°	161.8	164.3	170.4	177.7	193.7	261.1	261.1	291.7	301.5	304.0	212.1
145°	210.8	212.1	214.5	218.2	248.8	342.0	311.3	333.4	342.0	350.6	255.0
147.5°	242.7	245.2	242.7	232.9	261.1	293.0	278.3	288.1	297.9	300.3	256.2
150°	190.0	187.5	186.3	185.1	215.7	225.5	213.3	212.1	219.4	225.5	198.6
152.5°	138.5	137.3	136.1	134.8	161.8	155.7	147.1	147.1	149.5	150.8	139.7
155°	122.6	121.4	118.9	120.1	137.3	131.2	123.8	121.4	123.8	122.6	116.4
157.5°	100.5	98.1	98.1	103.0	111.5	104.2	99.3	95.6	96.8	95.6	96.8
160°	83.4	82.1	83.4	89.5	94.4	88.3	83.4	80.9	80.9	83.4	88.3
162.5°	74.8	73.5	74.8	77.2	79.7	73.5	69.9	69.9	71.1	76.0	85.8
165°	65.0	65.0	66.2	67.4	68.6	65.0	63.7	63.7	66.2	73.5	84.6
167.5°	62.5	62.5	62.5	62.5	62.5	61.3	60.1	63.7	66.2	69.9	77.2
170°	61.3	60.1	61.3	61.3	61.3	61.3	61.3	65.0	65.0	66.2	69.9
172.5°	62.5	62.5	62.5	63.7	66.2	67.4	66.2	68.6	67.4	67.4	67.4
175°	63.7	63.7	65.0	66.2	67.4	68.6	69.9	69.9	69.9	71.1	71.1
177.5°	63.7	63.7	65.0	66.2	67.4	65.0	62.5	61.3	60.1	60.1	60.1
180°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7
2.5°	346.9	316.3	273.4	291.7	348.1	337.1	280.7	246.4	248.8	273.4	275.8
5°	202.3	208.4	236.6	295.4	306.4	253.7	204.7	197.4	237.8	294.2	305.2
7.5°	182.6	182.6	205.9	286.8	322.4	264.8	199.8	180.2	210.8	257.4	264.8
10°	220.6	213.3	215.7	245.2	258.6	212.1	179.0	170.4	187.5	193.7	191.2
12.5°	248.8	253.7	277.0	270.9	212.1	172.8	161.8	160.6	170.4	176.5	175.3
15°	267.2	258.6	241.5	221.9	202.3	180.2	164.3	154.4	143.4	138.5	138.5
17.5°	284.4	267.2	236.6	218.2	198.6	182.6	167.9	153.2	148.3	149.5	149.5
20°	305.2	284.4	256.2	235.4	212.1	190.0	171.6	155.7	152.0	153.2	152.0
22.5°	321.2	302.8	273.4	246.4	221.9	197.4	179.0	163.0	158.1	156.9	156.9
25°	340.8	324.8	294.2	261.1	231.7	208.4	192.4	174.1	165.5	163.0	163.0
27.5°	366.5	353.0	318.7	283.2	248.8	221.9	204.7	185.1	172.8	167.9	166.7
30°	405.7	387.3	349.3	305.2	269.7	241.5	220.6	196.1	181.4	172.8	171.6
32.5°	464.6	441.3	391.0	335.9	293.0	263.5	237.8	207.2	188.8	179.0	177.7
35°	589.6	563.9	500.1	422.9	360.4	300.3	259.9	219.4	196.1	183.9	182.6
37.5°	668.1	621.5	544.2	474.4	398.4	362.8	311.3	257.4	205.9	190.0	187.5
40°	782.1	722.0	625.2	530.8	397.2	395.9	361.6	313.8	242.7	201.0	197.4
42.5°	866.6	789.4	668.1	562.6	400.8	411.9	382.4	340.8	288.1	234.1	228.0
45°	1039.5	941.4	749.0	590.8	405.7	430.3	400.8	356.7	310.1	272.1	268.4
47.5°	1363.1	1227.0	905.9	644.8	460.9	491.5	438.8	387.3	342.0	304.0	295.4
50°	1815.4	1652.4	1095.9	692.6	555.3	625.2	539.3	460.9	407.0	377.5	369.0
52.5°	2346.2	2163.5	1214.8	767.3	669.3	789.4	695.0	603.1	532.0	536.9	532.0
55°	2938.2	2722.5	1318.9	880.1	815.1	972.0	869.1	789.4	751.4	858.1	864.2
57.5°	3509.4	3279.0	1383.9	999.0	978.2	1182.9	1062.8	1006.4	1021.1	1333.7	1407.2
60°	4054.9	3690.8	1434.2	1110.6	1115.5	1348.4	1256.4	1245.4	1290.8	1691.6	1803.1
62.5°	4369.9	3901.7	1431.7	1182.9	1201.3	1450.1	1369.2	1375.3	1409.7	1750.4	1843.6
65°	4584.4	4008.3	1407.2	1219.7	1238.0	1486.9	1382.7	1334.9	1312.8	1545.7	1645.0
67.5°	4455.7	3802.4	1348.4	1187.8	1212.3	1428.0	1298.1	1178.0	1140.0	1266.2	1325.1
70°	3766.8	3177.2	1201.3	1079.9	1095.9	1204.9	1094.6	963.5	925.5	991.7	1018.6
72.5°	2846.3	2439.3	1077.5	997.8	959.8	996.6	888.7	751.4	742.8	778.4	783.3
75°	2273.8	1914.7	981.9	899.7	798.0	836.0	706.1	559.0	547.9	550.4	538.1
77.5°	1713.6	1424.4	826.2	708.5	604.3	666.8	524.6	386.1	367.7	360.4	346.9
80°	1173.1	989.2	561.4	474.4	429.0	489.1	373.9	283.2	281.9	279.5	264.8
82.5°	832.3	763.7	458.4	403.3	364.1	384.9	324.8	264.8	258.6	259.9	243.9
85°	728.1	691.3	442.5	408.2	370.2	369.0	310.1	247.6	245.2	246.4	231.7
87.5°	696.2	655.8	432.7	389.8	353.0	334.6	273.4	218.2	224.3	228.0	214.5
90°	623.9	582.2	392.3	348.1	312.6	280.7	231.7	197.4	207.2	209.6	197.4
92.5°	525.9	483.0	305.2	279.5	262.3	257.4	217.0	187.5	194.9	196.1	186.3
95°	445.0	405.7	266.0	246.4	234.1	232.9	196.1	170.4	174.1	172.8	164.3
97.5°	357.9	329.7	232.9	214.5	201.0	193.7	167.9	148.3	153.2	155.7	149.5
100°	305.2	289.3	217.0	201.0	185.1	175.3	153.2	137.3	142.2	147.1	142.2
102.5°	286.8	274.6	213.3	196.1	179.0	166.7	145.9	128.7	131.2	137.3	133.6
105°	272.1	261.1	207.2	188.8	172.8	159.4	142.2	121.4	120.1	126.3	125.0
107.5°	256.2	246.4	203.5	181.4	164.3	152.0	136.1	116.4	111.5	115.2	114.0
110°	247.6	237.8	196.1	172.8	154.4	143.4	128.7	112.8	106.6	107.9	107.9



REPORT NUMBER: P856202

CATALOG NUMBER: FFX-CLB-80-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	230.4	219.4	180.2	158.1	143.4	133.6	118.9	107.9	100.5	103.0	104.2
115°	219.4	204.7	165.5	149.5	133.6	125.0	116.4	106.6	98.1	98.1	99.3
117.5°	226.8	198.6	154.4	142.2	133.6	131.2	128.7	114.0	96.8	95.6	95.6
120°	217.0	199.8	167.9	164.3	155.7	148.3	132.4	112.8	94.4	91.9	91.9
122.5°	212.1	208.4	190.0	177.7	161.8	147.1	123.8	103.0	90.7	88.3	88.3
125°	209.6	205.9	183.9	160.6	139.7	125.0	110.3	96.8	89.5	85.8	85.8
127.5°	192.4	175.3	148.3	134.8	121.4	115.2	103.0	94.4	85.8	80.9	80.9
130°	177.7	161.8	138.5	123.8	112.8	107.9	99.3	90.7	82.1	77.2	76.0
132.5°	175.3	159.4	134.8	116.4	106.6	101.7	96.8	87.0	77.2	72.3	71.1
135°	163.0	144.6	120.1	110.3	104.2	100.5	96.8	84.6	74.8	69.9	69.9
137.5°	150.8	132.4	114.0	109.1	104.2	100.5	89.5	77.2	69.9	66.2	66.2
140°	152.0	131.2	116.4	112.8	105.4	94.4	84.6	76.0	69.9	65.0	63.7
142.5°	161.8	136.1	117.7	106.6	101.7	95.6	91.9	82.1	69.9	61.3	58.8
145°	177.7	147.1	132.4	127.5	118.9	107.9	94.4	76.0	63.7	56.4	55.2
147.5°	196.1	165.5	148.3	134.8	117.7	99.3	80.9	66.2	56.4	53.9	52.7
150°	170.4	141.0	127.5	109.1	94.4	79.7	66.2	58.8	53.9	52.7	52.7
152.5°	128.7	105.4	94.4	85.8	77.2	69.9	62.5	57.6	53.9	51.5	51.5
155°	111.5	99.3	88.3	79.7	71.1	63.7	57.6	55.2	51.5	51.5	50.3
157.5°	98.1	91.9	77.2	69.9	63.7	60.1	57.6	53.9	52.7	51.5	51.5
160°	89.5	85.8	71.1	65.0	61.3	58.8	58.8	56.4	52.7	51.5	51.5
162.5°	87.0	83.4	68.6	62.5	58.8	60.1	62.5	61.3	56.4	53.9	53.9
165°	85.8	83.4	69.9	61.3	58.8	60.1	66.2	67.4	61.3	57.6	56.4
167.5°	78.5	77.2	73.5	67.4	63.7	63.7	67.4	68.6	66.2	66.2	65.0
170°	71.1	71.1	72.3	73.5	71.1	67.4	65.0	65.0	68.6	72.3	73.5
172.5°	68.6	69.9	72.3	76.0	76.0	71.1	67.4	66.2	69.9	74.8	76.0
175°	72.3	73.5	74.8	74.8	72.3	71.1	69.9	68.6	71.1	76.0	77.2
177.5°	60.1	60.1	61.3	61.3	60.1	61.3	60.1	57.6	57.6	57.6	57.6
180°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-3

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.

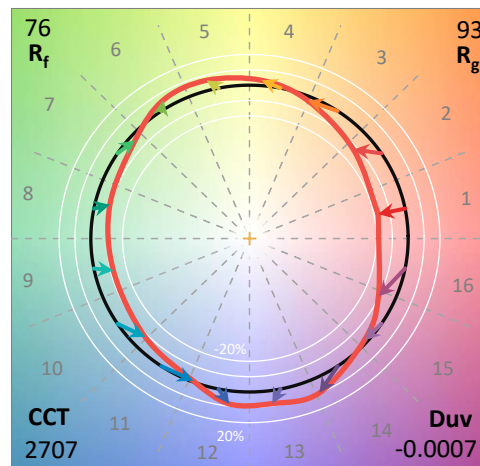
**Test Information**

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**

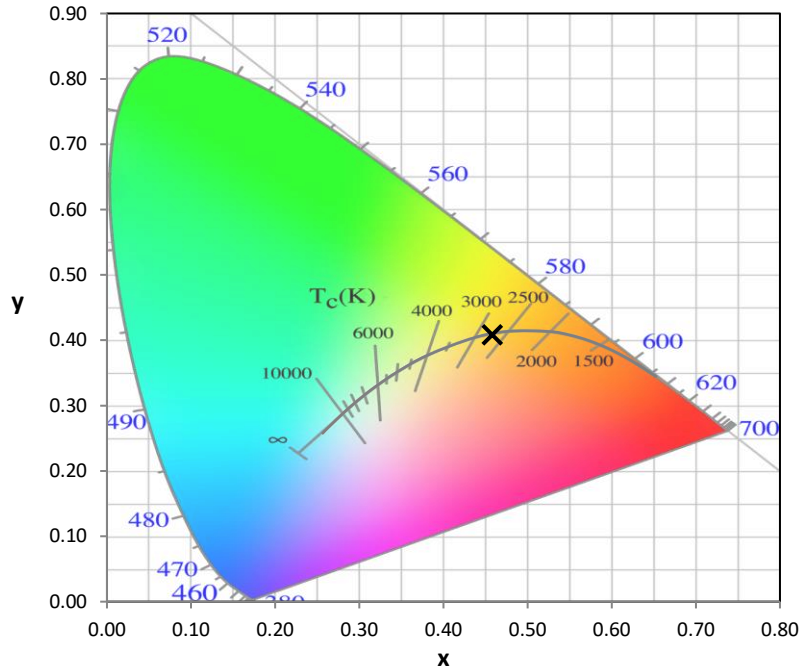
Stabilization Time: 0.813602M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

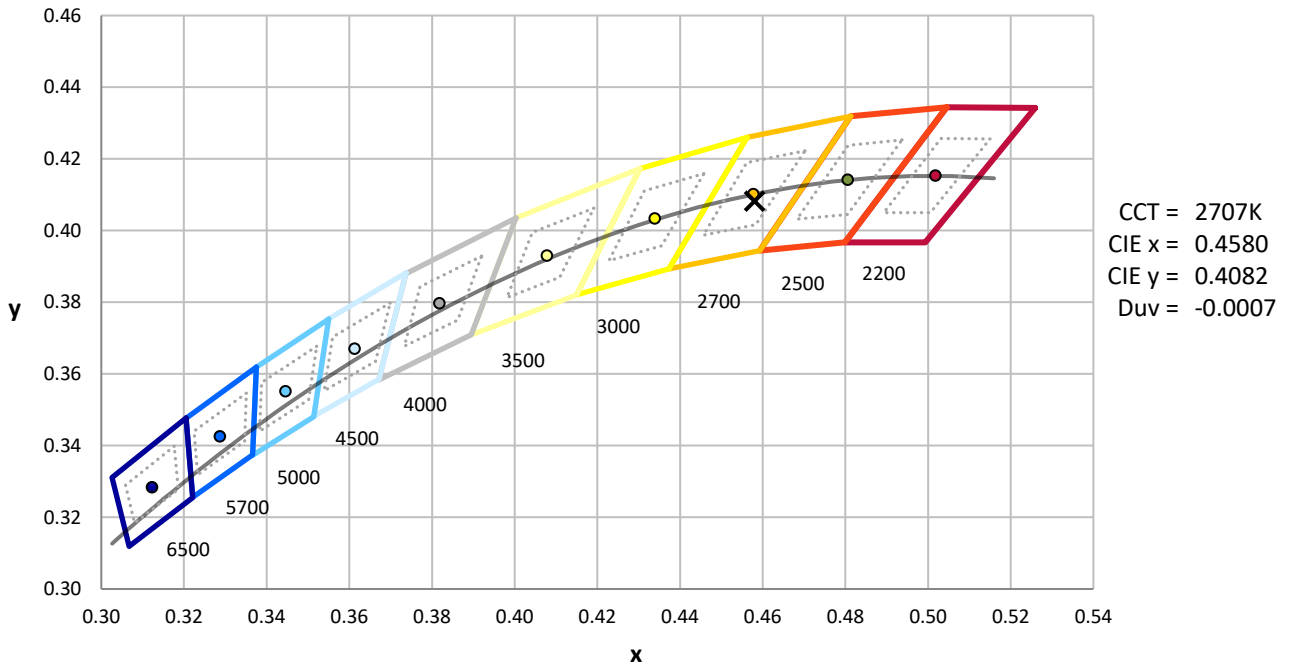
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



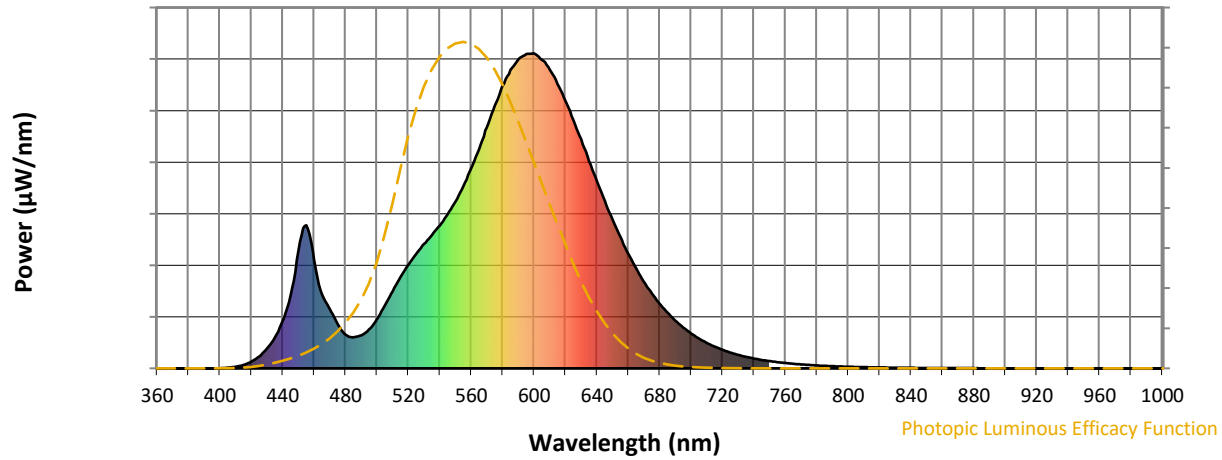
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

**Photopic Flux vs. Wavelength**

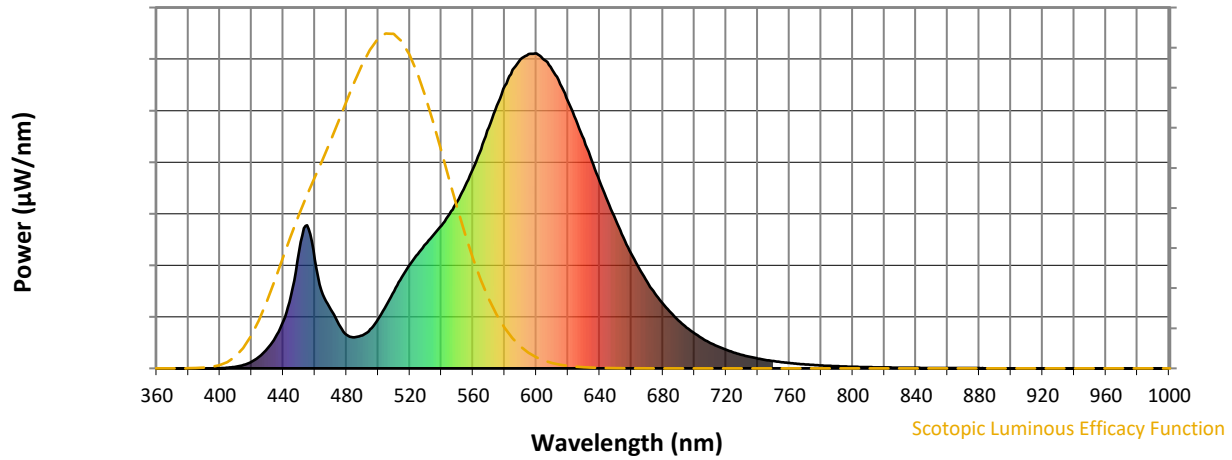


**Photopic Lumens: NR**

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**

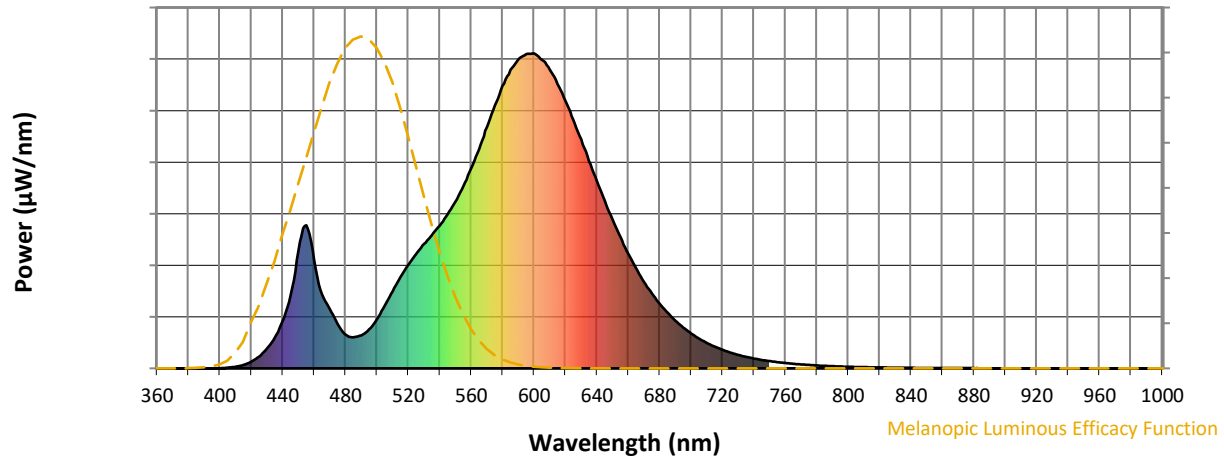
**S/P: 1.12**

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			

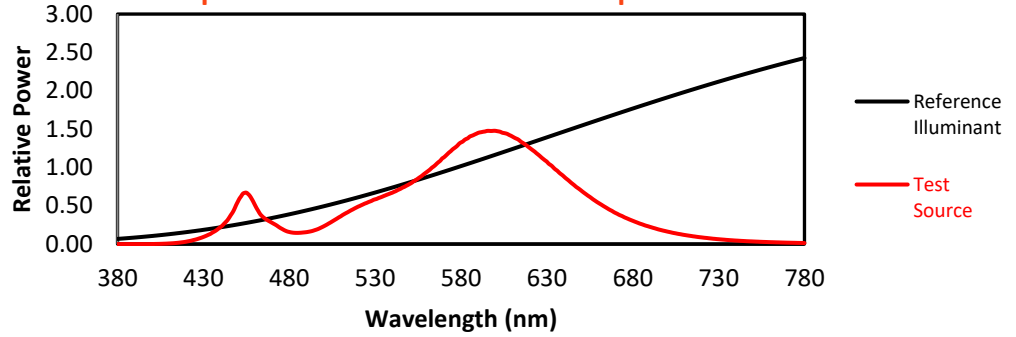
REPORT NUMBER: SP1-2406-133-3

TM-30-18

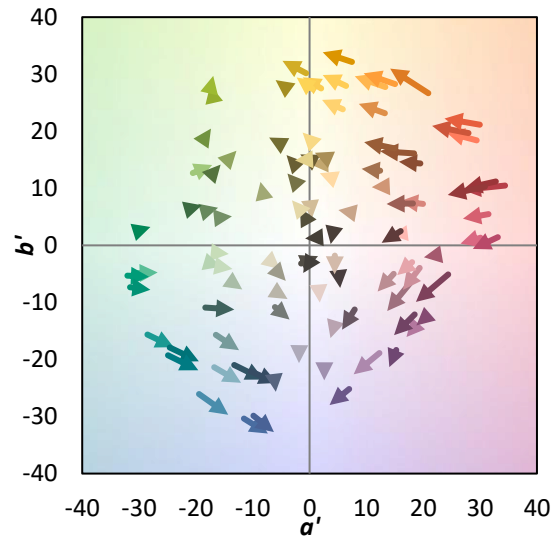
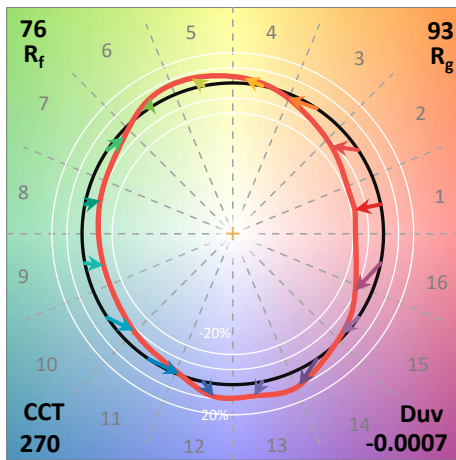
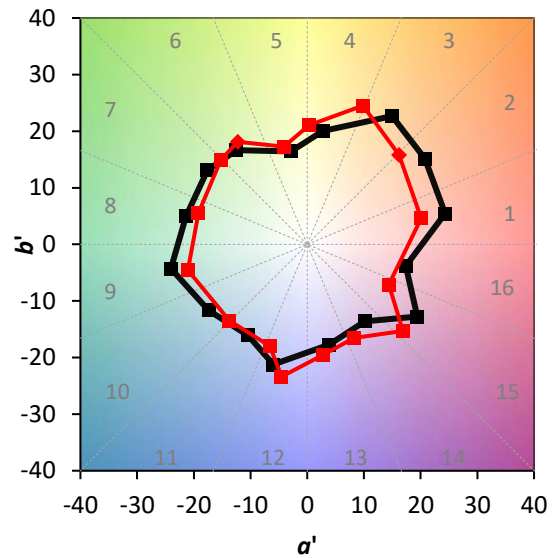
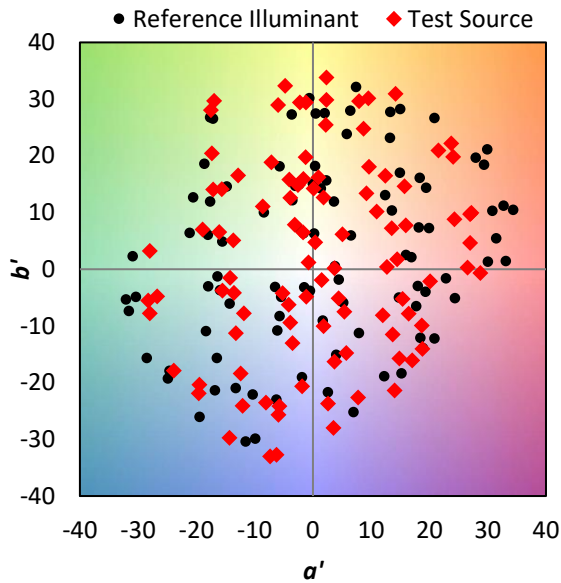
**Summary**

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

**Spectral Power Distribution Comparison**



**Color Vector Graphics**

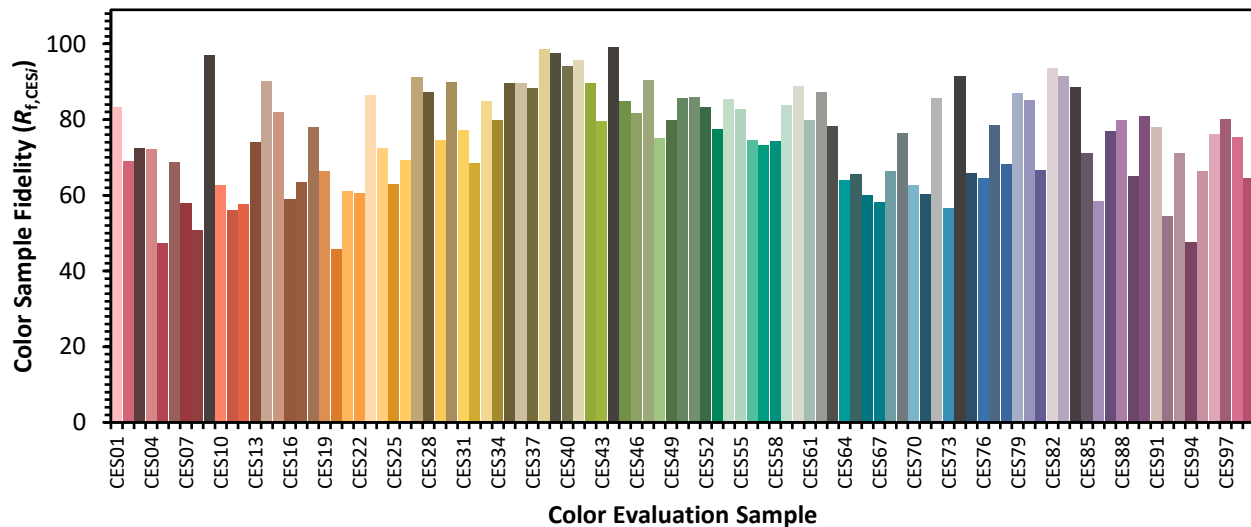


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

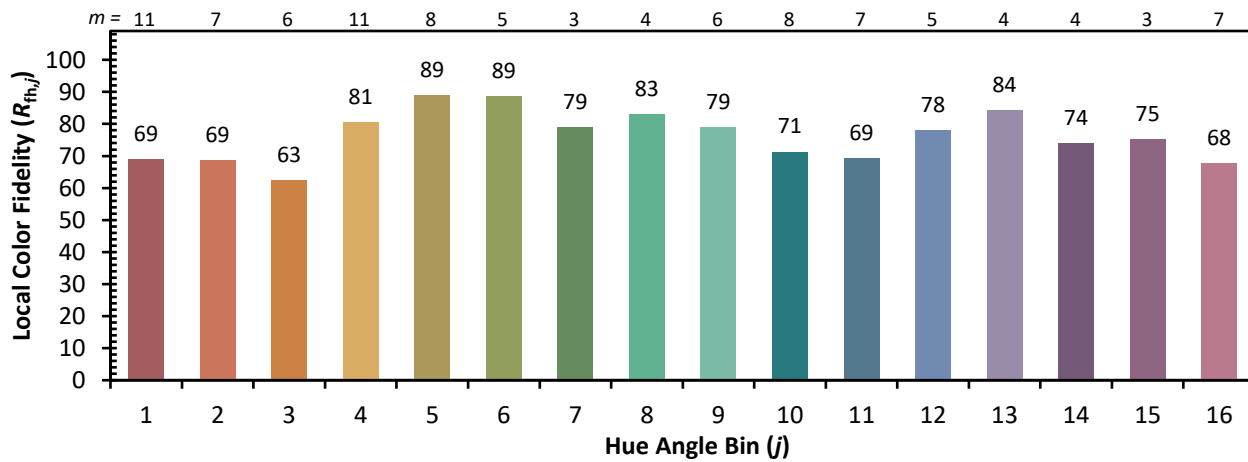
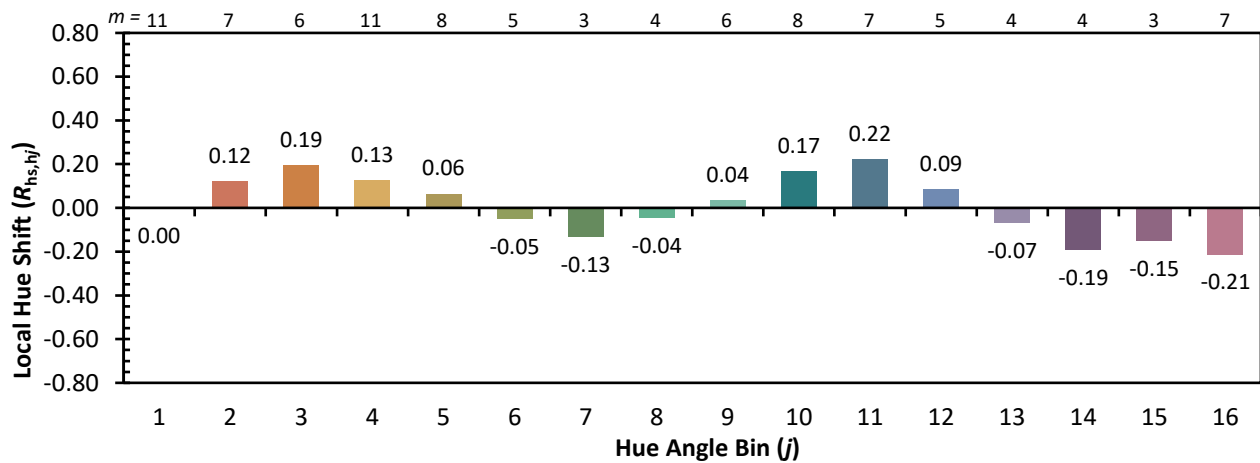
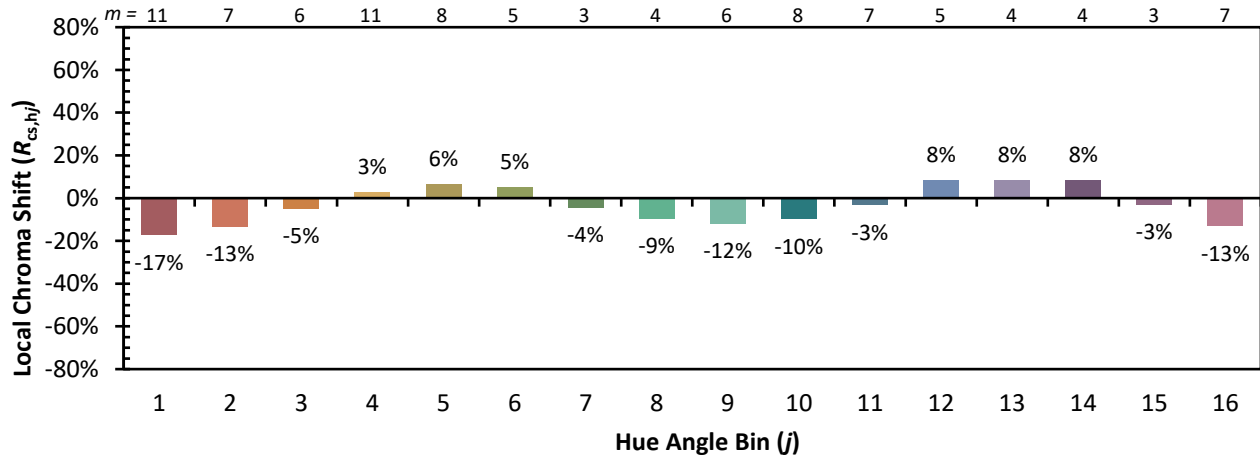
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 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	



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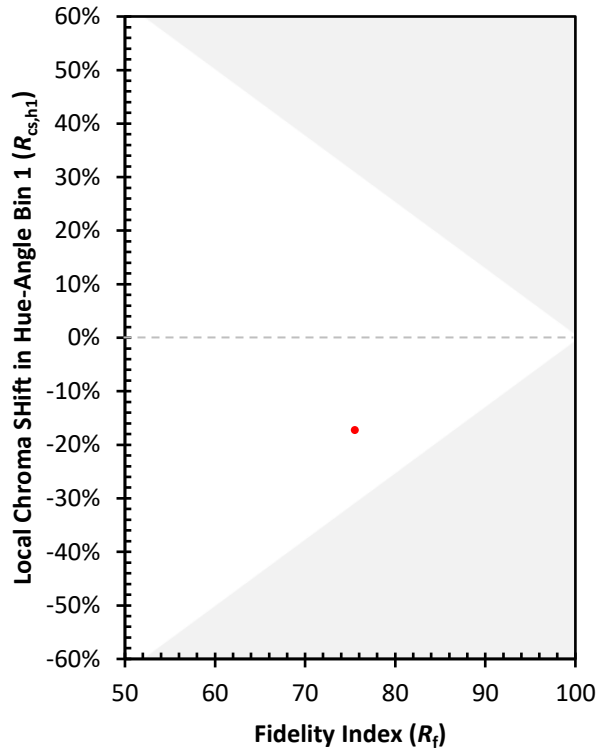
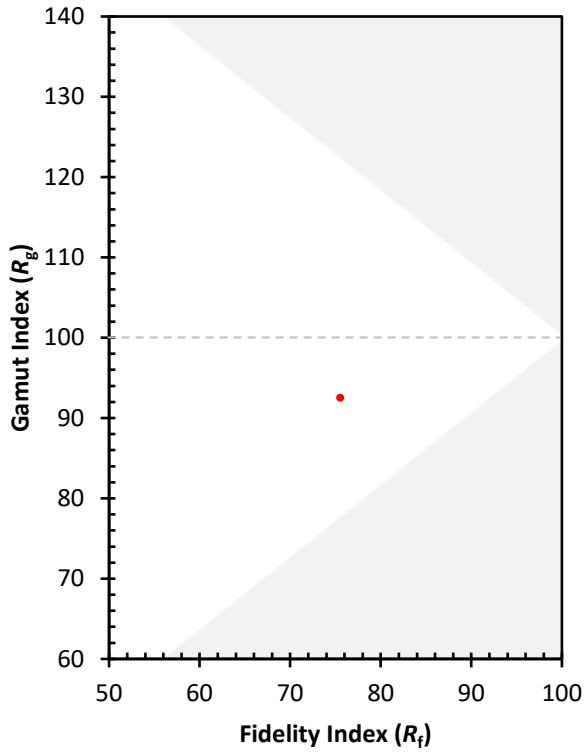
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)