

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: P856205

Luminaire Tested: **FFX-CLB-50-727-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856205  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-50-727-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**

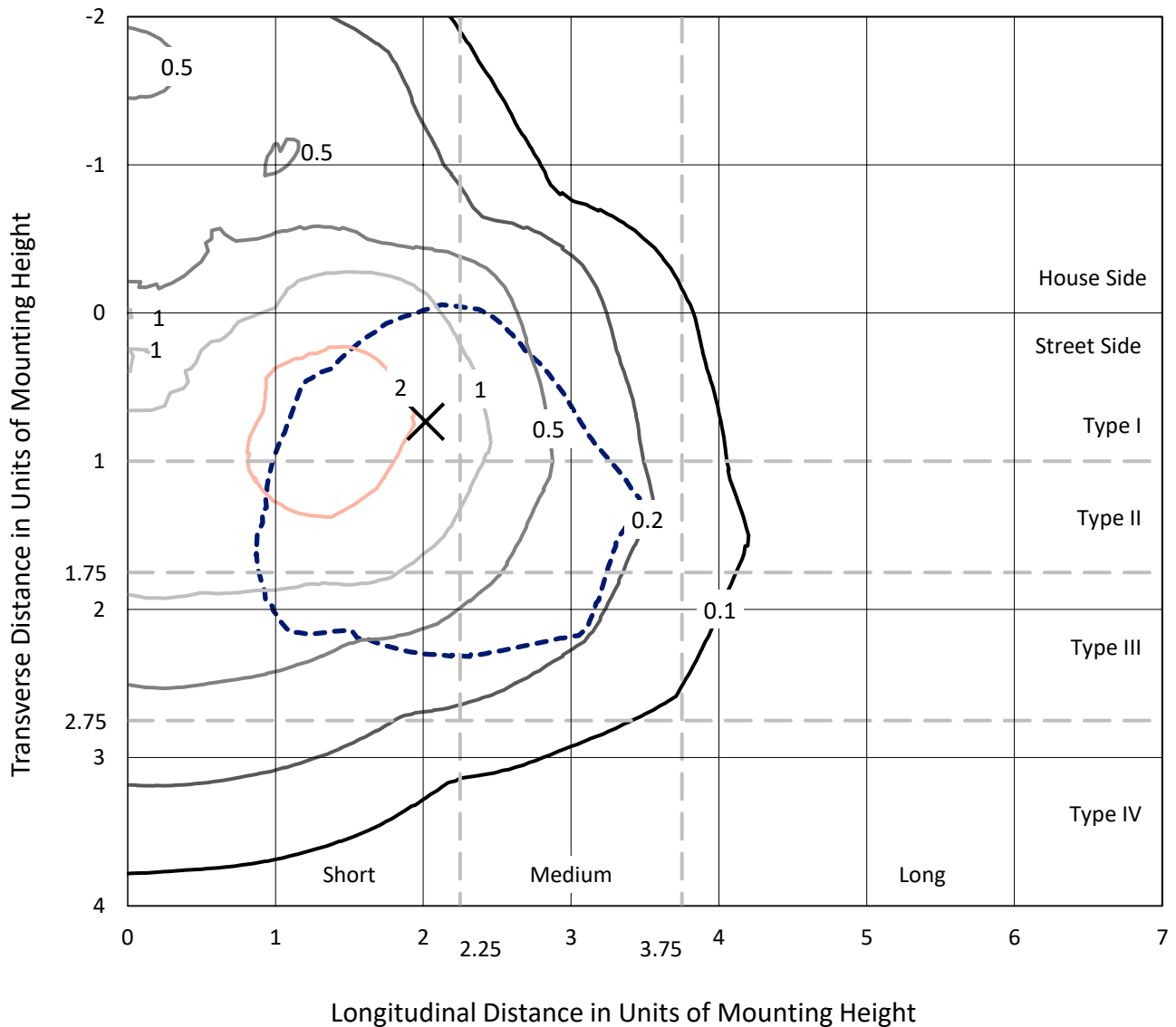
Lumens per Lamp: N/A  
Luminaire Lumens: 7341.6 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B2 - U4 - G3

Input Watts (W): 50.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.0%%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

REPORT NUMBER: P856205  
 CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

### Iso-Footcandle Lines of Horizontal Illumination

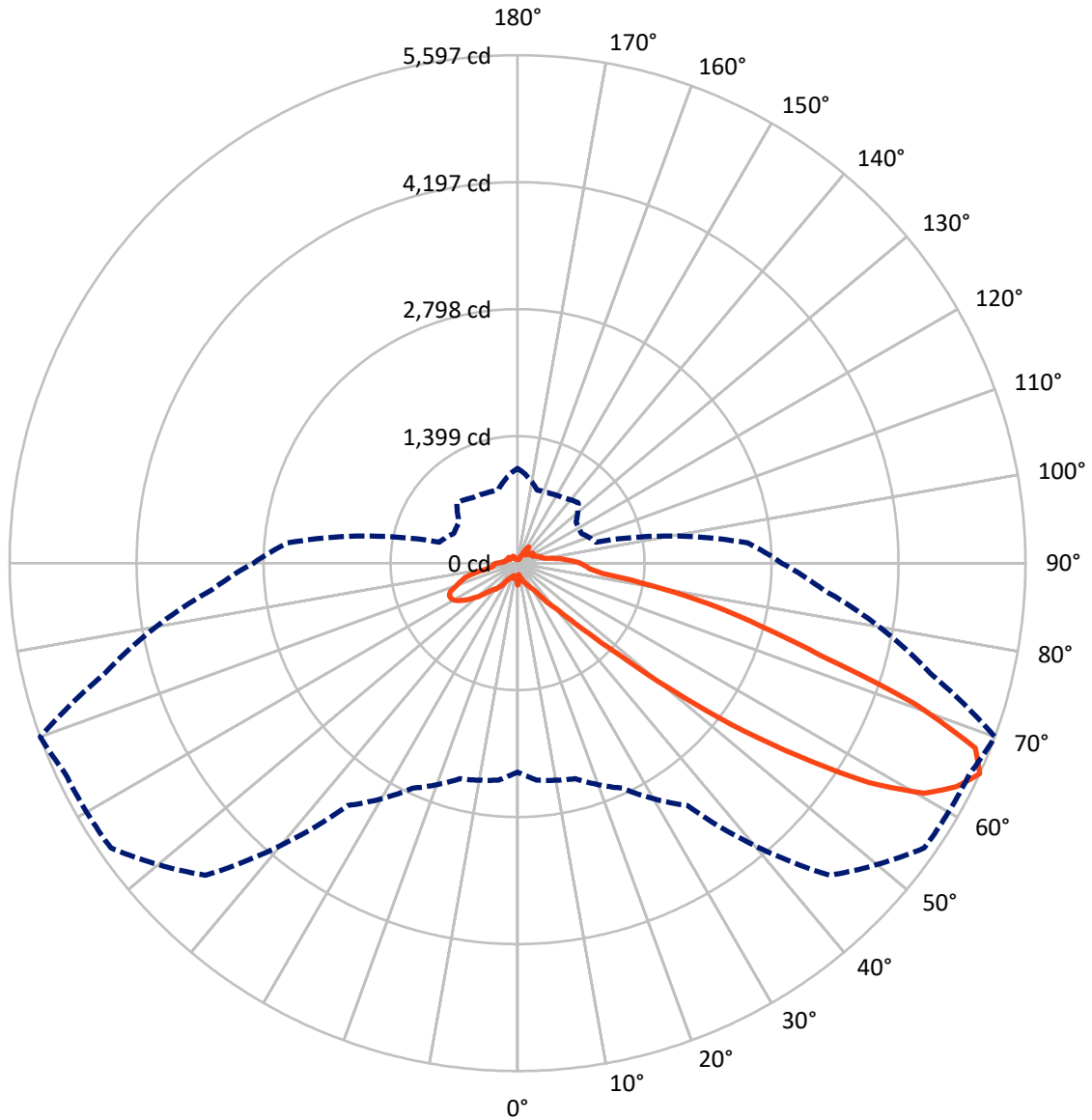
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P856205  
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P856205  
 CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

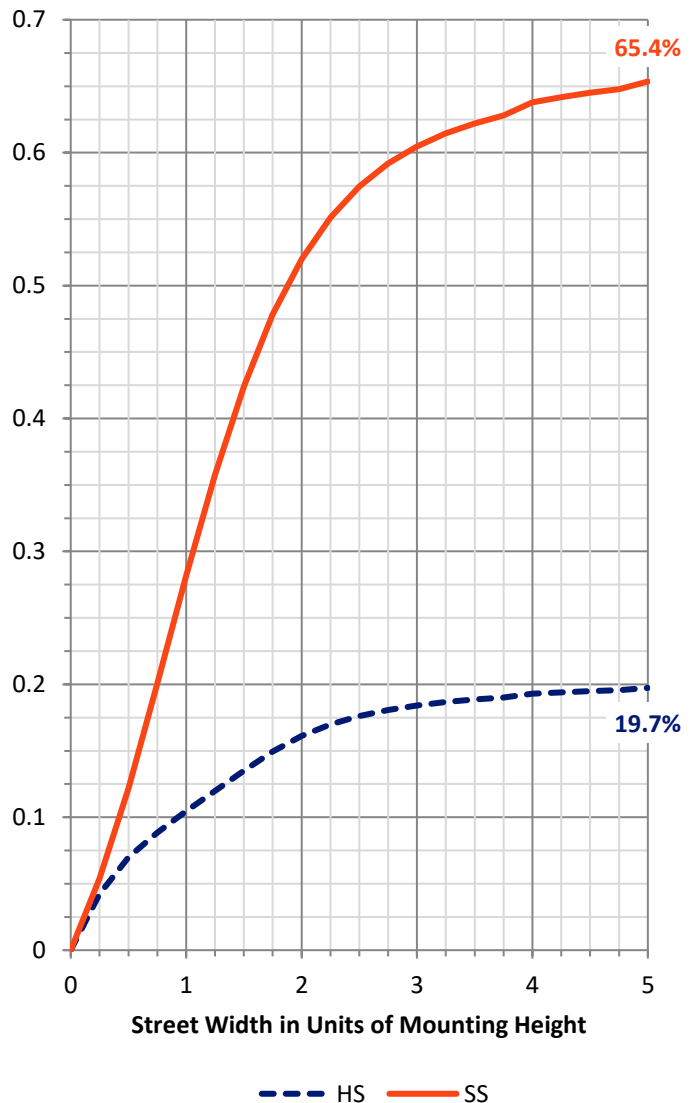
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1505.8	282.1	1787.9
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	4965.3	588.5	5553.8
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	6471.0	870.6	7341.6
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	0.2
10°-20°	49.1	0.7
20°-30°	99.1	1.3
30°-40°	209.7	2.9
40°-50°	488.9	6.7
50°-60°	1457.0	19.8
60°-70°	2334.7	31.8
70°-80°	1341.2	18.3
80°-90°	475.7	6.5
90°-100°	280.5	3.8
100°-110°	169.5	2.3
110°-120°	127.4	1.7
120°-130°	107.9	1.5
130°-140°	71.6	1.0
140°-150°	67.3	0.9
150°-160°	29.8	0.4
160°-170°	12.3	0.2
170°-180°	4.1	0.1
0°-90°	6471.0	88.1
0°-180°	7341.6	100.0



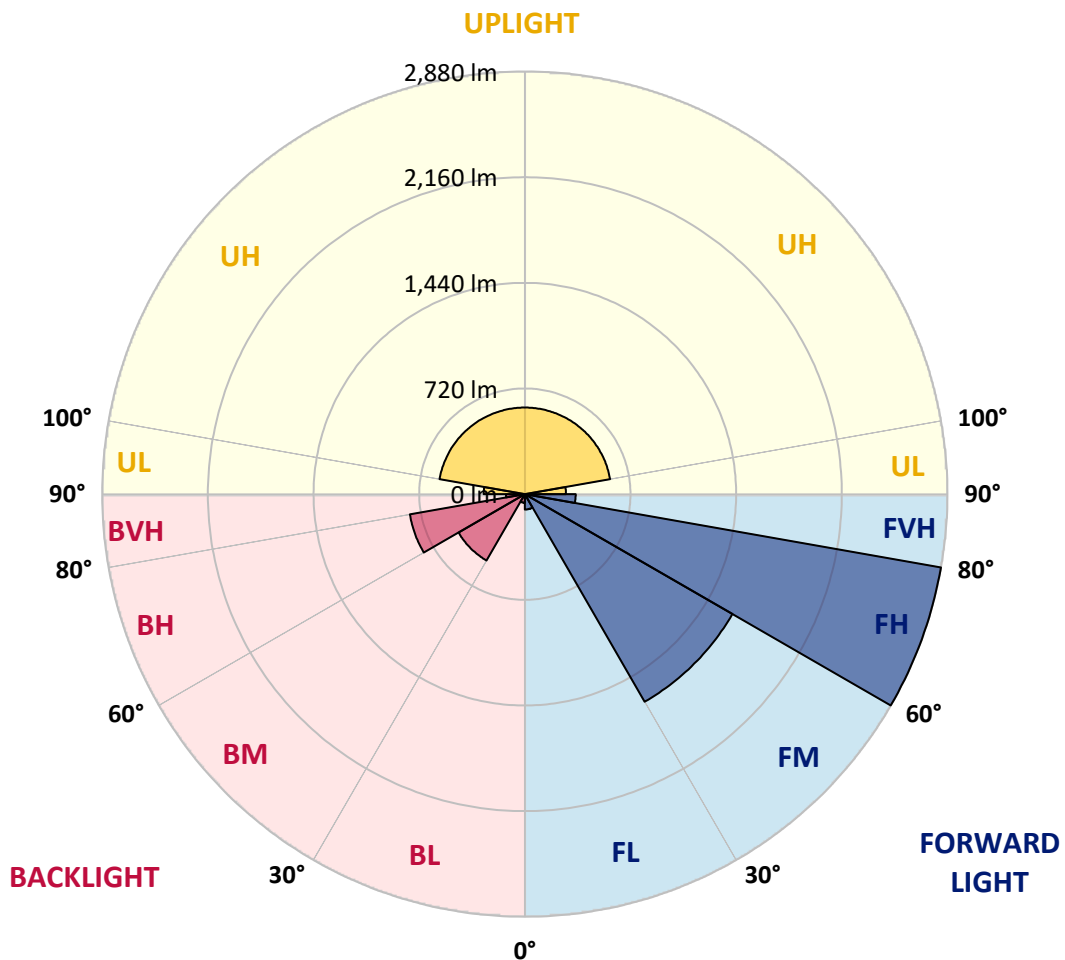
REPORT NUMBER: P856205  
 CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.2	1.4			
FM (30°-60°)	1633.5	22.3			
FH (60°-80°)	2880.0	39.2			G2/5000
FVH (80°-90°)	346.5	4.7			G3/500
BL (0°-30°)	58.7	0.8	B0/110		
BM (30°-60°)	522.0	7.1	B1/1000		
BH (60°-80°)	795.9	10.8	B2/1000		G2/1000
BVH (80°-90°)	129.2	1.8			G2/225
UL (90°-100°)	280.5	3.8		U3/500	
UH (100°-180°)	590.0	8.0		U4/1000	

**BUG Rating: B2-U4-G3**

Type III Short





REPORT NUMBER: P856205

CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5
2.5°	203.1	201.5	205.4	208.5	212.4	207.0	197.6	207.0	210.1	219.4	226.4
5°	172.7	173.5	177.4	186.0	193.7	192.2	168.1	136.9	127.6	123.7	124.5
7.5°	171.2	170.4	168.1	167.3	171.9	189.1	186.7	164.2	147.1	132.3	117.5
10°	180.5	182.8	185.2	185.2	182.1	171.2	170.4	168.8	162.6	155.6	146.3
12.5°	223.3	226.4	228.7	221.0	210.9	200.0	191.4	177.4	171.2	167.3	160.3
15°	270.0	273.1	269.2	254.4	236.5	216.3	208.5	209.3	200.7	190.6	175.8
17.5°	294.9	293.3	277.0	259.9	245.9	230.3	219.4	212.4	209.3	205.4	190.6
20°	279.3	275.4	265.3	258.3	256.8	248.2	241.2	235.0	231.1	222.5	204.6
22.5°	267.7	267.7	266.1	264.5	273.9	270.0	266.9	258.3	252.9	242.0	215.5
25°	282.4	282.4	283.2	280.9	293.3	293.3	293.3	284.0	277.0	261.4	229.5
27.5°	303.4	302.7	305.0	303.4	314.3	316.7	321.3	314.3	304.2	285.5	245.1
30°	326.0	326.0	328.3	329.9	340.8	346.2	351.7	348.6	336.1	313.6	271.5
32.5°	350.1	349.3	356.3	364.1	370.4	380.5	382.8	390.6	378.1	351.7	310.4
35°	385.1	387.5	406.1	422.5	440.4	446.6	457.5	487.8	475.4	439.6	392.1
37.5°	557.1	545.4	540.7	522.1	519.7	556.3	569.5	598.3	573.4	525.2	452.8
40°	590.5	576.5	570.3	552.4	558.6	634.1	620.9	724.4	663.7	586.7	540.0
42.5°	556.3	554.0	627.1	641.1	633.3	753.2	727.5	918.9	854.3	675.4	623.2
45°	671.5	665.2	696.4	721.3	740.7	956.2	940.7	1142.2	1114.2	822.4	771.1
47.5°	757.8	751.6	787.4	870.6	984.2	1217.7	1308.7	1612.9	1518.0	1131.3	1014.6
50°	1016.1	1012.2	1108.7	1198.2	1385.7	1730.4	1980.1	2308.5	2169.2	1580.2	1365.5
52.5°	1260.4	1272.9	1385.7	1557.7	1756.1	2378.5	2734.9	2965.2	2963.6	2058.0	1753.0
55°	1435.5	1477.5	1610.6	1921.0	2196.4	2953.5	3434.3	3604.7	3747.9	2745.8	2135.0
57.5°	1775.5	1848.7	1976.3	2283.6	2639.2	3649.1	4335.3	4307.3	4564.8	3459.2	2550.5
60°	2124.9	2210.5	2253.2	2535.7	3002.5	4319.0	4954.6	4889.3	5148.4	4080.1	2987.7
62.5°	2233.8	2317.8	2359.8	2667.2	3264.7	4698.7	5240.2	5265.9	5426.9	4522.8	3246.8
65°	2302.3	2398.7	2459.4	2736.4	3259.3	4864.4	5471.3	5495.4	5596.5	4713.5	3380.6
67.5°	2289.8	2398.0	2475.8	2724.0	3078.8	4726.7	5413.7	5304.8	5440.2	4577.3	3239.8
70°	2042.4	2136.5	2214.3	2405.7	2569.9	3982.1	4683.9	4504.2	4644.2	3824.1	2675.0
72.5°	1668.9	1707.8	1775.5	1865.8	1947.5	2954.3	3572.8	3418.8	3499.7	2868.7	2004.3
75°	1370.9	1363.2	1423.8	1489.2	1463.5	2158.3	2826.7	2685.8	2761.3	2178.6	1598.9
77.5°	1016.1	1012.2	1100.2	1094.7	1055.8	1494.6	2240.8	2138.9	2149.0	1609.0	1197.4
80°	610.8	622.4	708.0	725.1	679.2	937.6	1599.7	1551.4	1479.1	1099.4	839.5
82.5°	428.7	446.6	491.7	510.4	487.8	684.7	1059.7	1026.3	940.7	797.5	591.3
85°	437.3	440.4	445.8	447.4	437.3	614.7	822.4	803.7	798.3	668.3	487.8
87.5°	437.3	444.3	448.9	448.2	430.3	575.8	758.6	729.0	736.0	624.8	471.5
90°	392.1	404.6	403.8	406.1	391.4	520.5	687.8	663.7	673.0	563.3	428.7
92.5°	320.6	329.1	337.7	354.0	332.2	442.7	581.2	558.6	570.3	479.3	364.9
95°	298.0	305.8	311.2	319.8	298.0	393.7	514.3	487.1	491.7	406.9	308.9
97.5°	241.2	245.9	252.1	253.6	238.1	302.7	391.4	368.0	371.1	315.9	242.8
100°	202.3	206.2	211.6	211.6	201.5	250.5	309.7	297.2	295.7	258.3	205.4
102.5°	191.4	193.0	201.5	200.0	189.8	231.1	280.1	272.3	273.1	239.6	193.0
105°	188.3	188.3	196.8	193.0	184.4	220.2	262.2	259.9	259.1	228.0	185.2
107.5°	185.2	185.2	193.7	189.8	182.8	207.7	246.6	238.9	238.1	217.1	175.1
110°	172.7	175.1	184.4	179.7	174.3	196.1	226.4	221.0	221.0	204.6	167.3



REPORT NUMBER: P856205  
 CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	153.3	154.8	163.4	159.5	155.6	174.3	200.7	193.7	194.5	183.6	156.4
115°	143.2	145.5	154.1	148.6	145.5	162.6	186.0	181.3	182.8	172.7	147.8
117.5°	143.9	144.7	150.9	151.7	145.5	159.5	171.9	173.5	175.8	169.6	150.2
120°	175.1	171.2	174.3	170.4	167.3	183.6	198.4	200.0	199.2	187.5	149.4
122.5°	176.6	168.8	177.4	171.9	168.8	186.7	203.1	207.0	203.1	193.0	152.5
125°	140.8	143.2	143.9	145.5	148.6	168.1	176.6	177.4	178.2	175.1	147.8
127.5°	123.7	122.9	119.0	119.8	126.8	143.9	150.2	154.8	151.7	150.2	133.0
130°	118.3	119.8	119.0	119.0	122.9	136.2	140.8	147.8	145.5	142.4	121.4
132.5°	108.9	110.5	117.5	126.0	124.5	129.2	130.7	137.7	138.5	138.5	122.2
135°	103.5	105.0	110.5	121.4	118.3	120.6	119.8	126.0	126.8	127.6	115.2
137.5°	105.8	106.6	103.5	105.0	107.4	117.5	120.6	126.8	126.8	123.7	107.4
140°	111.3	111.3	104.3	101.9	106.6	122.2	128.4	138.5	136.9	131.5	111.3
142.5°	102.7	104.3	108.1	112.8	122.9	165.7	165.7	185.2	191.4	193.0	134.6
145°	133.8	134.6	136.2	138.5	157.9	217.1	197.6	211.6	217.1	222.5	161.8
147.5°	154.1	155.6	154.1	147.8	165.7	186.0	176.6	182.8	189.1	190.6	162.6
150°	120.6	119.0	118.3	117.5	136.9	143.2	135.4	134.6	139.3	143.2	126.0
152.5°	87.9	87.1	86.4	85.6	102.7	98.8	93.4	93.4	94.9	95.7	88.7
155°	77.8	77.0	75.5	76.2	87.1	83.3	78.6	77.0	78.6	77.8	73.9
157.5°	63.8	62.2	62.2	65.4	70.8	66.1	63.0	60.7	61.5	60.7	61.5
160°	52.9	52.1	52.9	56.8	59.9	56.0	52.9	51.4	51.4	52.9	56.0
162.5°	47.5	46.7	47.5	49.0	50.6	46.7	44.3	44.3	45.1	48.2	54.5
165°	41.2	41.2	42.0	42.8	43.6	41.2	40.5	40.5	42.0	46.7	53.7
167.5°	39.7	39.7	39.7	39.7	39.7	38.9	38.1	40.5	42.0	44.3	49.0
170°	38.9	38.1	38.9	38.9	38.9	38.9	38.9	41.2	41.2	42.0	44.3
172.5°	39.7	39.7	39.7	40.5	42.0	42.8	42.0	43.6	42.8	42.8	42.8
175°	40.5	40.5	41.2	42.0	42.8	43.6	44.3	44.3	44.3	45.1	45.1
177.5°	40.5	40.5	41.2	42.0	42.8	41.2	39.7	38.9	38.1	38.1	38.1
180°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8





REPORT NUMBER: P856205

CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5
2.5°	220.2	200.7	173.5	185.2	221.0	214.0	178.2	156.4	157.9	173.5	175.1
5°	128.4	132.3	150.2	187.5	194.5	161.1	129.9	125.3	150.9	186.7	193.7
7.5°	115.9	115.9	130.7	182.1	204.6	168.1	126.8	114.4	133.8	163.4	168.1
10°	140.0	135.4	136.9	155.6	164.2	134.6	113.6	108.1	119.0	122.9	121.4
12.5°	157.9	161.1	175.8	171.9	134.6	109.7	102.7	101.9	108.1	112.0	111.3
15°	169.6	164.2	153.3	140.8	128.4	114.4	104.3	98.0	91.0	87.9	87.9
17.5°	180.5	169.6	150.2	138.5	126.0	115.9	106.6	97.3	94.1	94.9	94.9
20°	193.7	180.5	162.6	149.4	134.6	120.6	108.9	98.8	96.5	97.3	96.5
22.5°	203.9	192.2	173.5	156.4	140.8	125.3	113.6	103.5	100.4	99.6	99.6
25°	216.3	206.2	186.7	165.7	147.1	132.3	122.2	110.5	105.0	103.5	103.5
27.5°	232.6	224.1	202.3	179.7	157.9	140.8	129.9	117.5	109.7	106.6	105.8
30°	257.5	245.9	221.7	193.7	171.2	153.3	140.0	124.5	115.2	109.7	108.9
32.5°	294.9	280.1	248.2	213.2	186.0	167.3	150.9	131.5	119.8	113.6	112.8
35°	374.2	357.9	317.4	268.4	228.7	190.6	164.9	139.3	124.5	116.7	115.9
37.5°	424.0	394.5	345.5	301.1	252.9	230.3	197.6	163.4	130.7	120.6	119.0
40°	496.4	458.3	396.8	336.9	252.1	251.3	229.5	199.2	154.1	127.6	125.3
42.5°	550.1	501.1	424.0	357.1	254.4	261.4	242.8	216.3	182.8	148.6	144.7
45°	659.8	597.5	475.4	375.0	257.5	273.1	254.4	226.4	196.8	172.7	170.4
47.5°	865.2	778.8	575.0	409.3	292.5	312.0	278.5	245.9	217.1	193.0	187.5
50°	1152.3	1048.8	695.6	439.6	352.5	396.8	342.3	292.5	258.3	239.6	234.2
52.5°	1489.2	1373.3	771.1	487.1	424.8	501.1	441.2	382.8	337.7	340.8	337.7
55°	1865.0	1728.1	837.2	558.6	517.4	617.0	551.6	501.1	476.9	544.6	548.5
57.5°	2227.6	2081.3	878.4	634.1	620.9	750.8	674.6	638.8	648.1	846.5	893.2
60°	2573.8	2342.7	910.3	704.9	708.0	855.9	797.5	790.5	819.3	1073.7	1144.5
62.5°	2773.8	2476.5	908.8	750.8	762.5	920.4	869.1	873.0	894.8	1111.1	1170.2
65°	2909.9	2544.2	893.2	774.2	785.8	943.8	877.6	847.3	833.3	981.1	1044.1
67.5°	2828.2	2413.5	855.9	753.9	769.5	906.4	824.0	747.7	723.6	803.7	841.1
70°	2391.0	2016.7	762.5	685.5	695.6	764.8	694.8	611.6	587.4	629.4	646.6
72.5°	1806.6	1548.3	683.9	633.3	609.2	632.6	564.1	476.9	471.5	494.1	497.2
75°	1443.3	1215.3	623.2	571.1	506.5	530.6	448.2	354.8	347.8	349.3	341.6
77.5°	1087.7	904.1	524.4	449.7	383.6	423.3	333.0	245.1	233.4	228.7	220.2
80°	744.6	627.9	356.3	301.1	272.3	310.4	237.3	179.7	179.0	177.4	168.1
82.5°	528.3	484.7	291.0	256.0	231.1	244.3	206.2	168.1	164.2	164.9	154.8
85°	462.2	438.8	280.9	259.1	235.0	234.2	196.8	157.2	155.6	156.4	147.1
87.5°	441.9	416.3	274.7	247.4	224.1	212.4	173.5	138.5	142.4	144.7	136.2
90°	396.0	369.6	249.0	221.0	198.4	178.2	147.1	125.3	131.5	133.0	125.3
92.5°	333.8	306.6	193.7	177.4	166.5	163.4	137.7	119.0	123.7	124.5	118.3
95°	282.4	257.5	168.8	156.4	148.6	147.8	124.5	108.1	110.5	109.7	104.3
97.5°	227.2	209.3	147.8	136.2	127.6	122.9	106.6	94.1	97.3	98.8	94.9
100°	193.7	183.6	137.7	127.6	117.5	111.3	97.3	87.1	90.3	93.4	90.3
102.5°	182.1	174.3	135.4	124.5	113.6	105.8	92.6	81.7	83.3	87.1	84.8
105°	172.7	165.7	131.5	119.8	109.7	101.1	90.3	77.0	76.2	80.1	79.4
107.5°	162.6	156.4	129.2	115.2	104.3	96.5	86.4	73.9	70.8	73.1	72.4
110°	157.2	150.9	124.5	109.7	98.0	91.0	81.7	71.6	67.7	68.5	68.5



REPORT NUMBER: P856205  
 CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	146.3	139.3	114.4	100.4	91.0	84.8	75.5	68.5	63.8	65.4	66.1
115°	139.3	129.9	105.0	94.9	84.8	79.4	73.9	67.7	62.2	62.2	63.0
117.5°	143.9	126.0	98.0	90.3	84.8	83.3	81.7	72.4	61.5	60.7	60.7
120°	137.7	126.8	106.6	104.3	98.8	94.1	84.0	71.6	59.9	58.4	58.4
122.5°	134.6	132.3	120.6	112.8	102.7	93.4	78.6	65.4	57.6	56.0	56.0
125°	133.0	130.7	116.7	101.9	88.7	79.4	70.0	61.5	56.8	54.5	54.5
127.5°	122.2	111.3	94.1	85.6	77.0	73.1	65.4	59.9	54.5	51.4	51.4
130°	112.8	102.7	87.9	78.6	71.6	68.5	63.0	57.6	52.1	49.0	48.2
132.5°	111.3	101.1	85.6	73.9	67.7	64.6	61.5	55.2	49.0	45.9	45.1
135°	103.5	91.8	76.2	70.0	66.1	63.8	61.5	53.7	47.5	44.3	44.3
137.5°	95.7	84.0	72.4	69.2	66.1	63.8	56.8	49.0	44.3	42.0	42.0
140°	96.5	83.3	73.9	71.6	66.9	59.9	53.7	48.2	44.3	41.2	40.5
142.5°	102.7	86.4	74.7	67.7	64.6	60.7	58.4	52.1	44.3	38.9	37.3
145°	112.8	93.4	84.0	80.9	75.5	68.5	59.9	48.2	40.5	35.8	35.0
147.5°	124.5	105.0	94.1	85.6	74.7	63.0	51.4	42.0	35.8	34.2	33.5
150°	108.1	89.5	80.9	69.2	59.9	50.6	42.0	37.3	34.2	33.5	33.5
152.5°	81.7	66.9	59.9	54.5	49.0	44.3	39.7	36.6	34.2	32.7	32.7
155°	70.8	63.0	56.0	50.6	45.1	40.5	36.6	35.0	32.7	32.7	31.9
157.5°	62.2	58.4	49.0	44.3	40.5	38.1	36.6	34.2	33.5	32.7	32.7
160°	56.8	54.5	45.1	41.2	38.9	37.3	37.3	35.8	33.5	32.7	32.7
162.5°	55.2	52.9	43.6	39.7	37.3	38.1	39.7	38.9	35.8	34.2	34.2
165°	54.5	52.9	44.3	38.9	37.3	38.1	42.0	42.8	38.9	36.6	35.8
167.5°	49.8	49.0	46.7	42.8	40.5	40.5	42.8	43.6	42.0	42.0	41.2
170°	45.1	45.1	45.9	46.7	45.1	42.8	41.2	41.2	43.6	45.9	46.7
172.5°	43.6	44.3	45.9	48.2	48.2	45.1	42.8	42.0	44.3	47.5	48.2
175°	45.9	46.7	47.5	47.5	45.9	45.1	44.3	43.6	45.1	48.2	49.0
177.5°	38.1	38.1	38.9	38.9	38.1	38.9	38.1	36.6	36.6	36.6	36.6
180°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8

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.

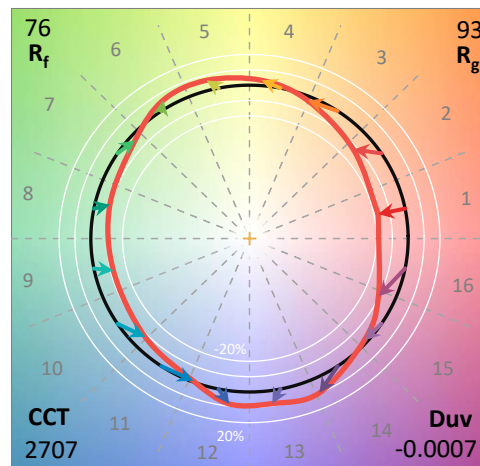
**Test Information**

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**

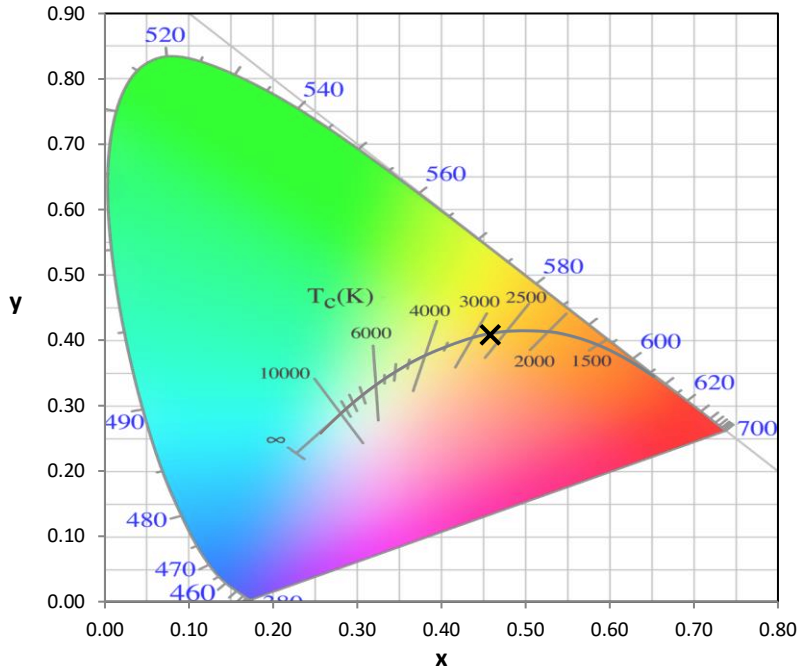
Stabilization Time: 0.813602M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

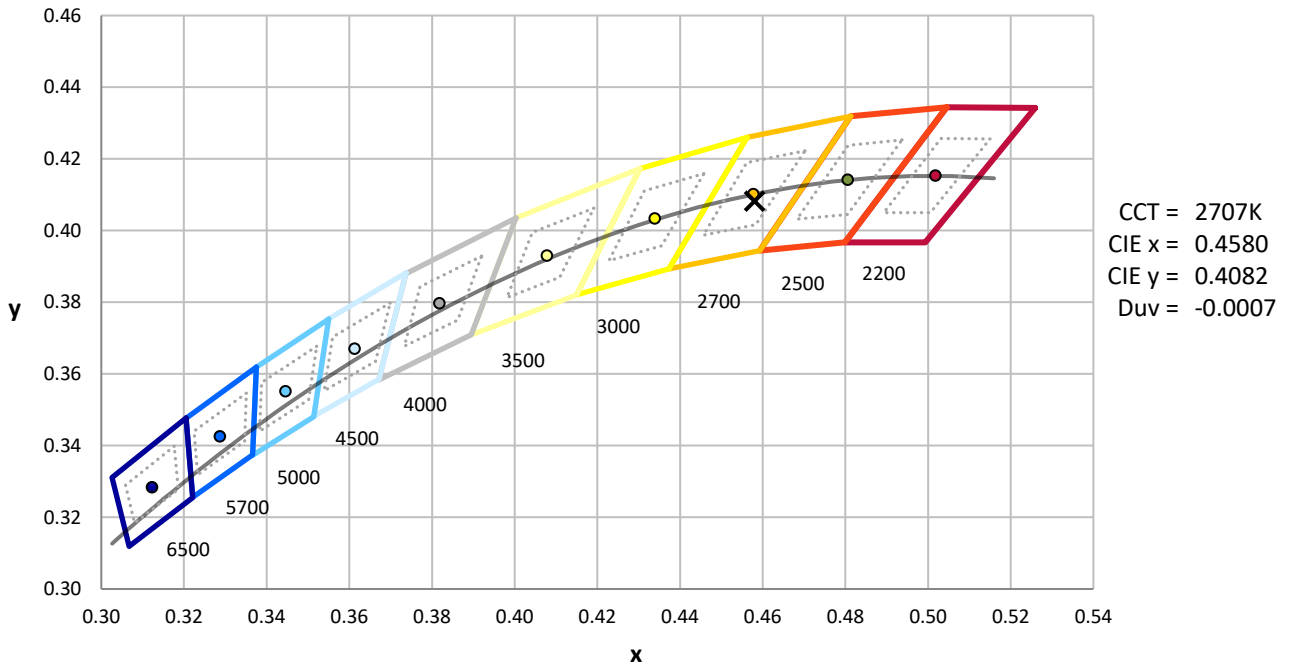
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



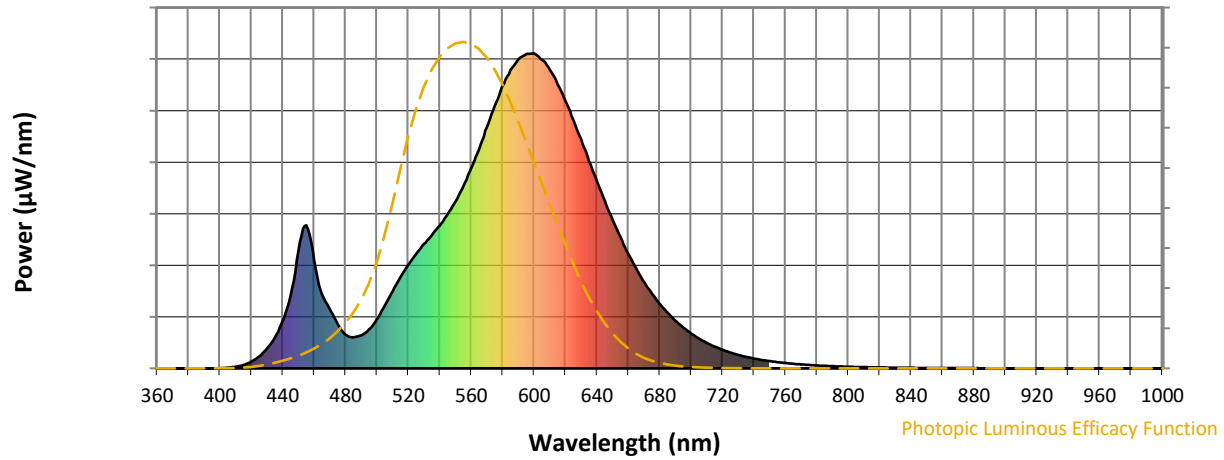
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

**Photopic Flux vs. Wavelength**

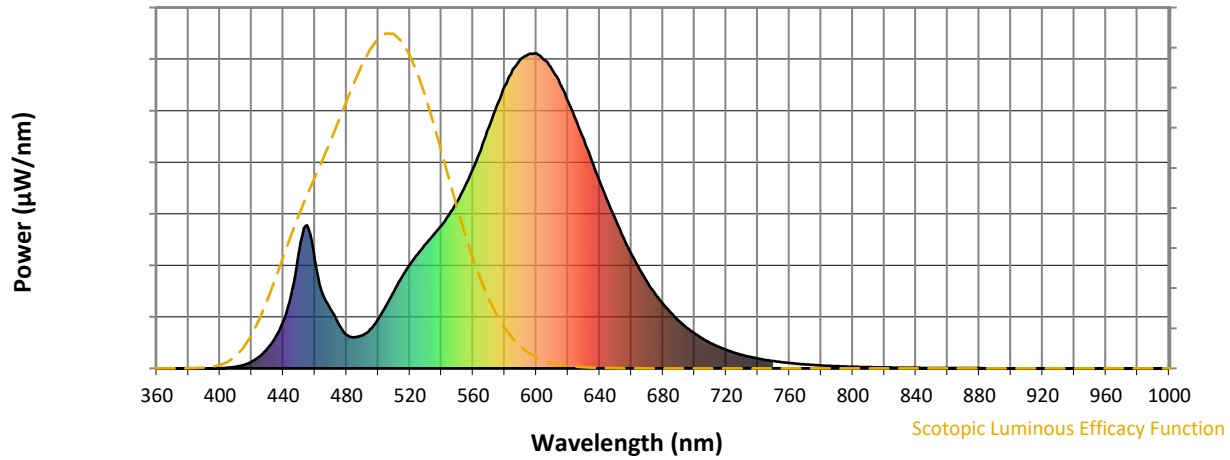


**Photopic Lumens: NR**

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**

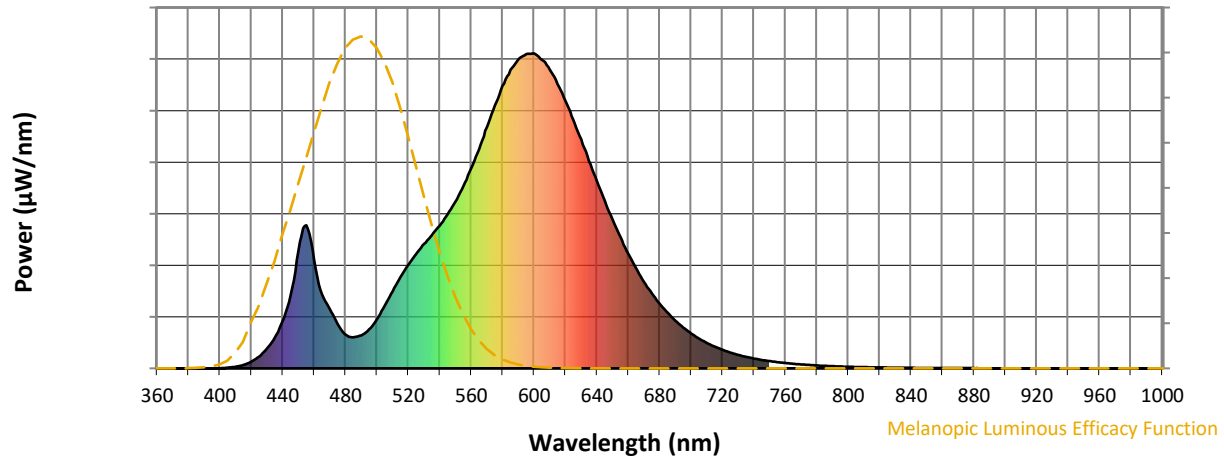
**S/P: 1.12**

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

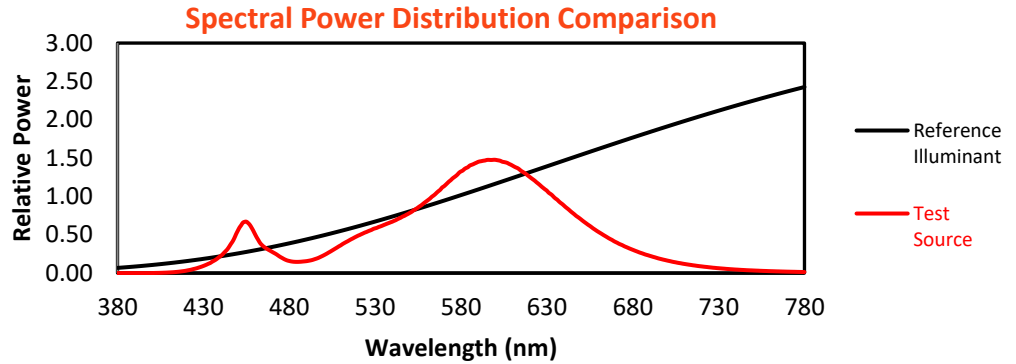
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	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

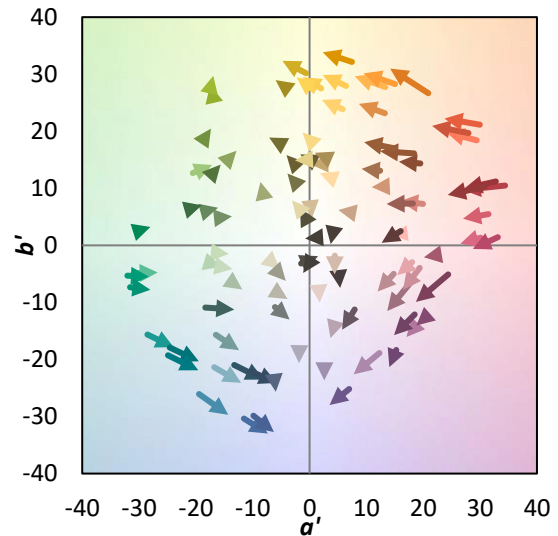
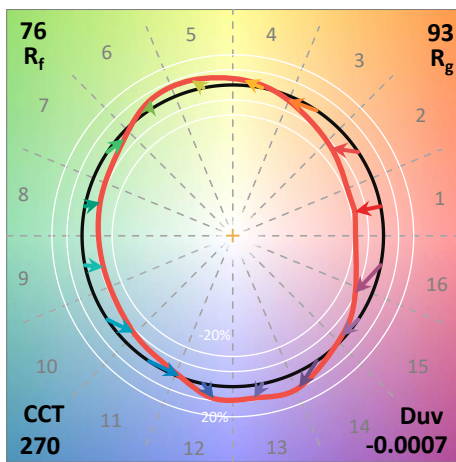
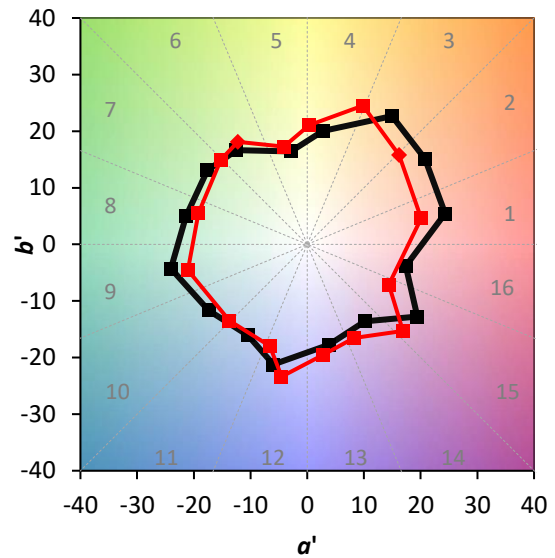
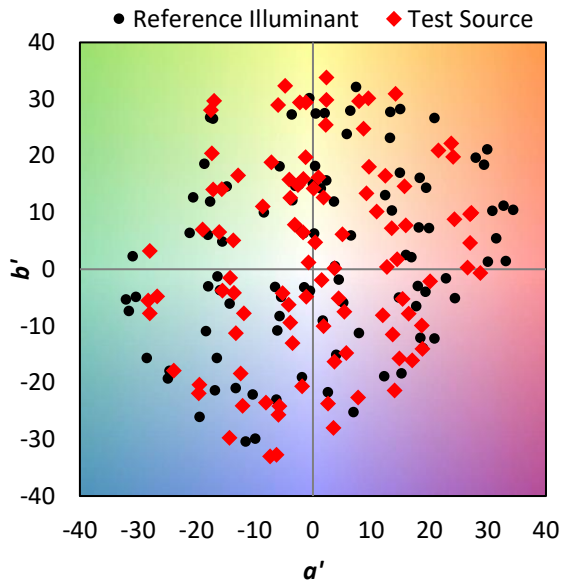
TM-30-18

**Summary**

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



**Color Vector Graphics**

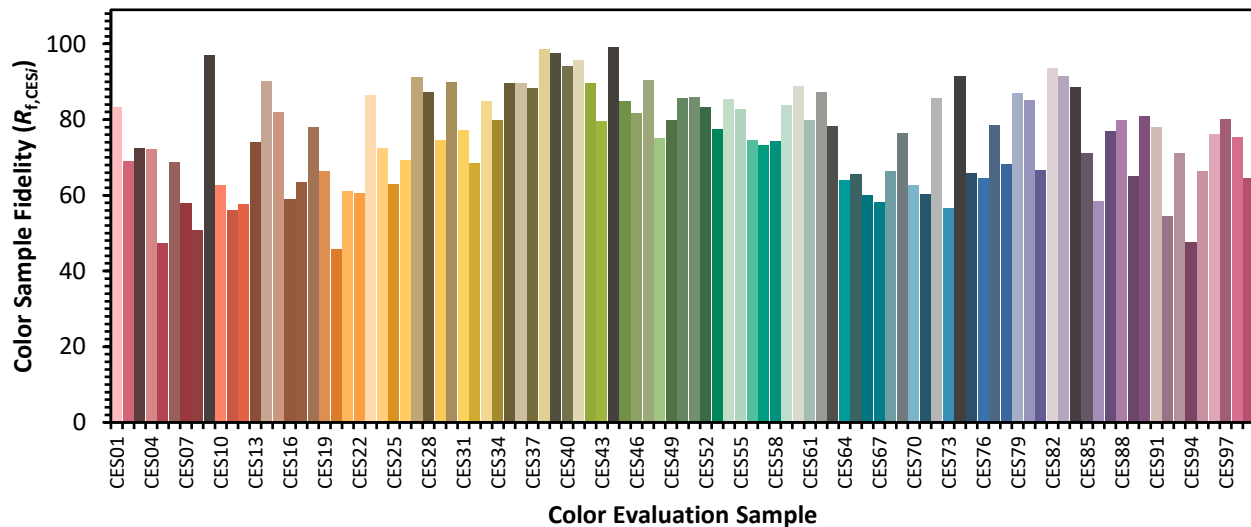


REPORT NUMBER: SP1-2406-133-3

TM-30-18

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

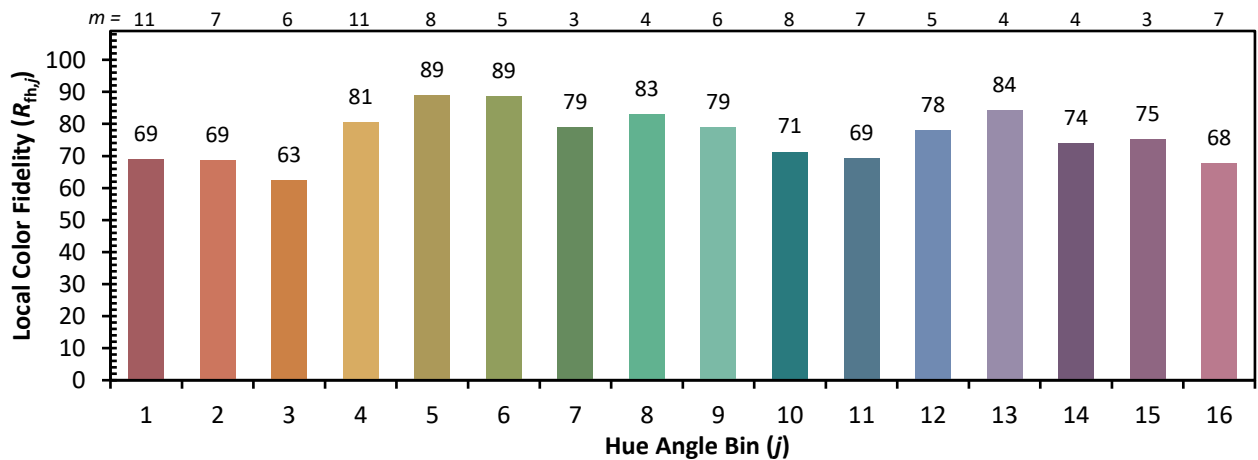
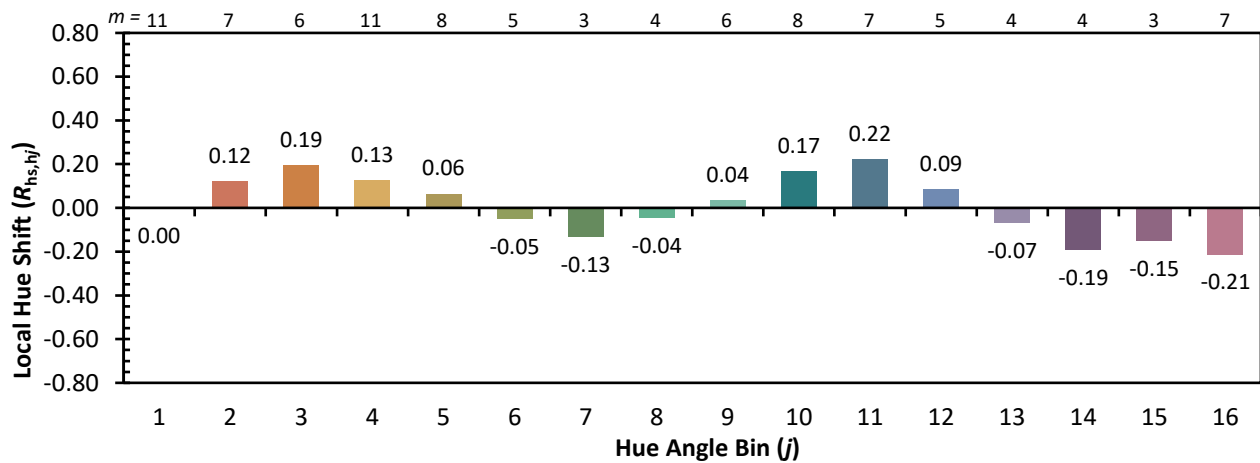
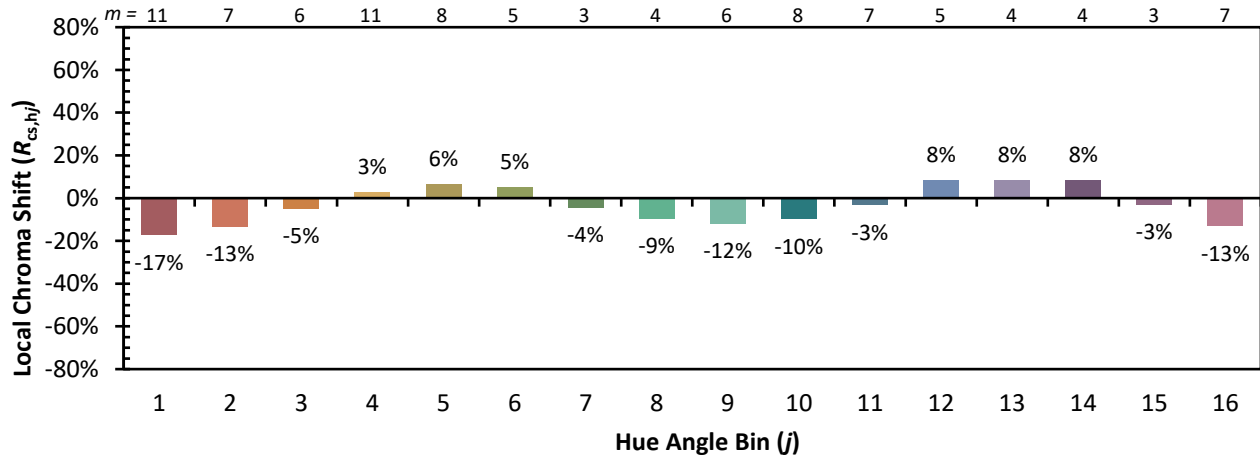
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82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



REPORT NUMBER: SP1-2406-133-3

TM-30-18

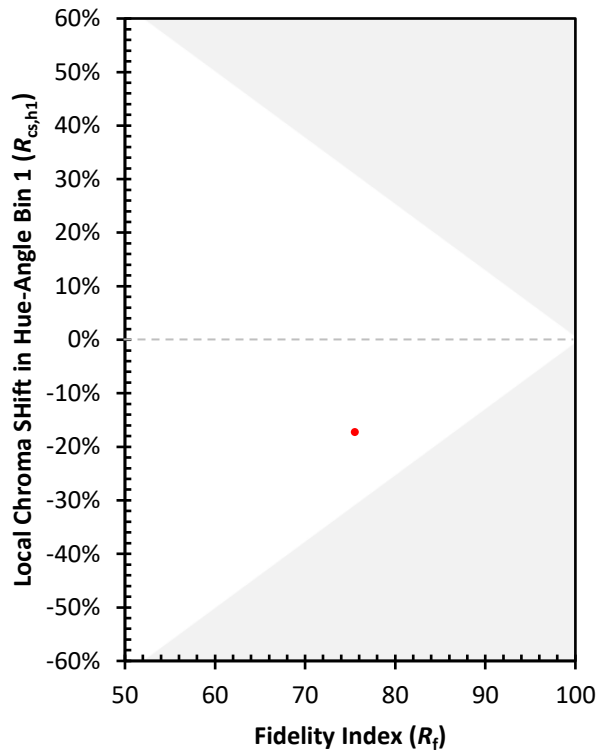
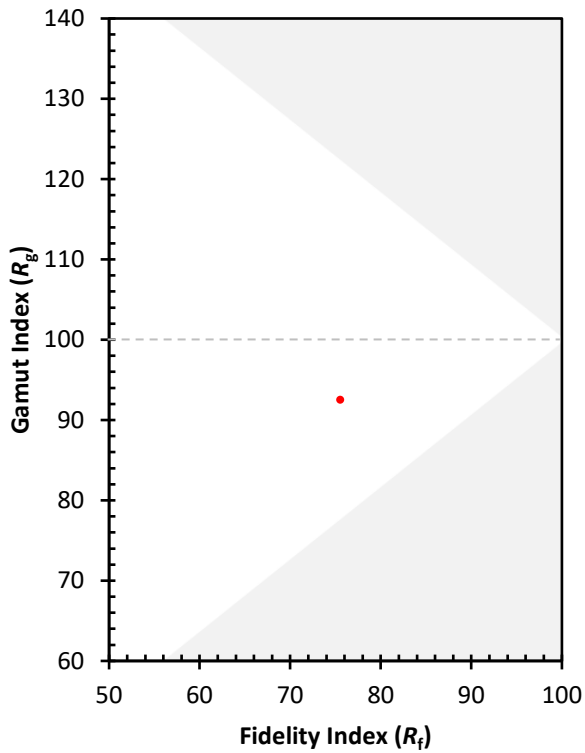
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)