

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: P856127

Luminaire Tested: **FFX-CLB-20-730-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856127
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-730-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

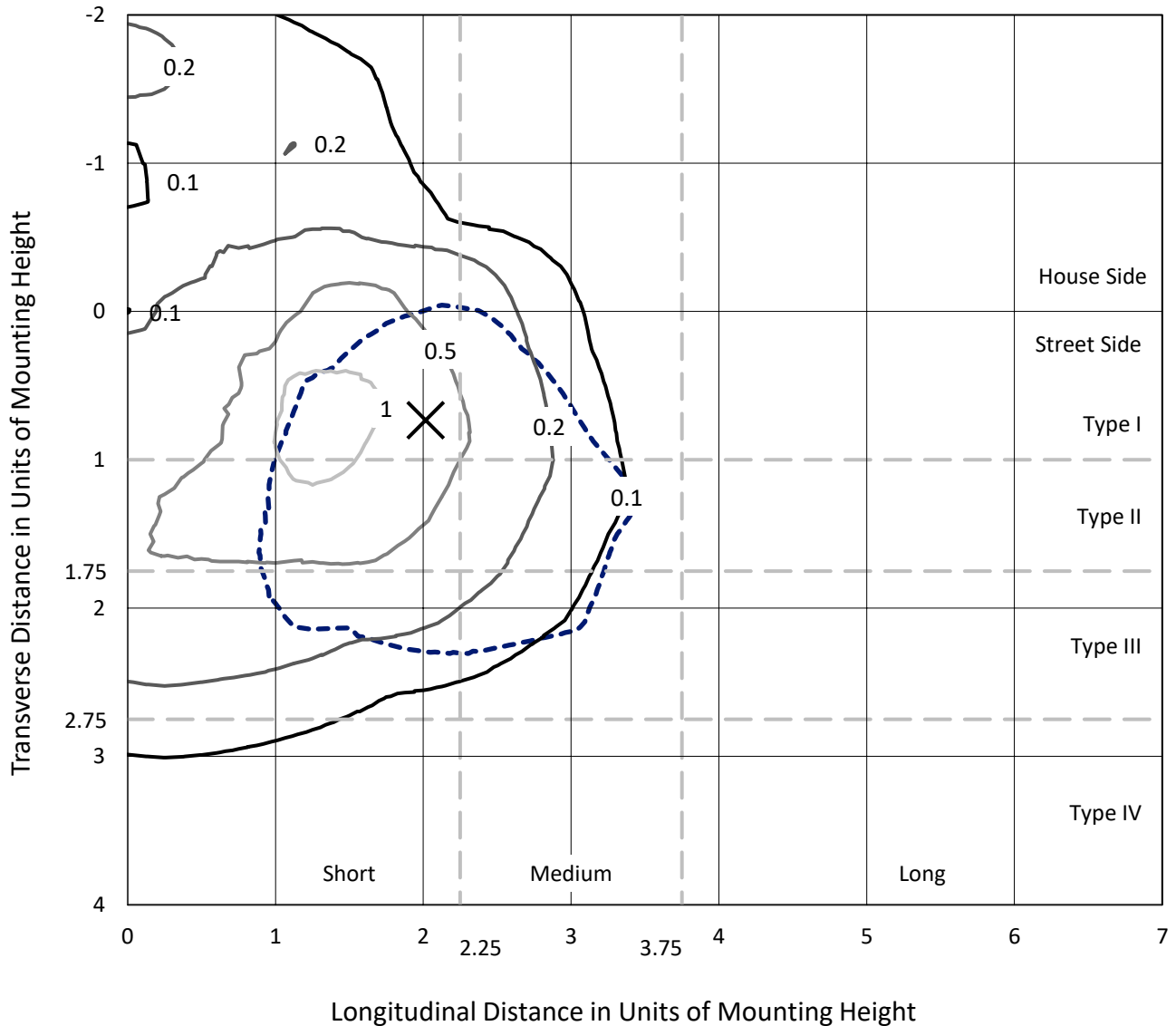
Lumens per Lamp: N/A
Luminaire Lumens: 3107.3 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U3 - G2

Input Watts (W): 19.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 9.8%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856127
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

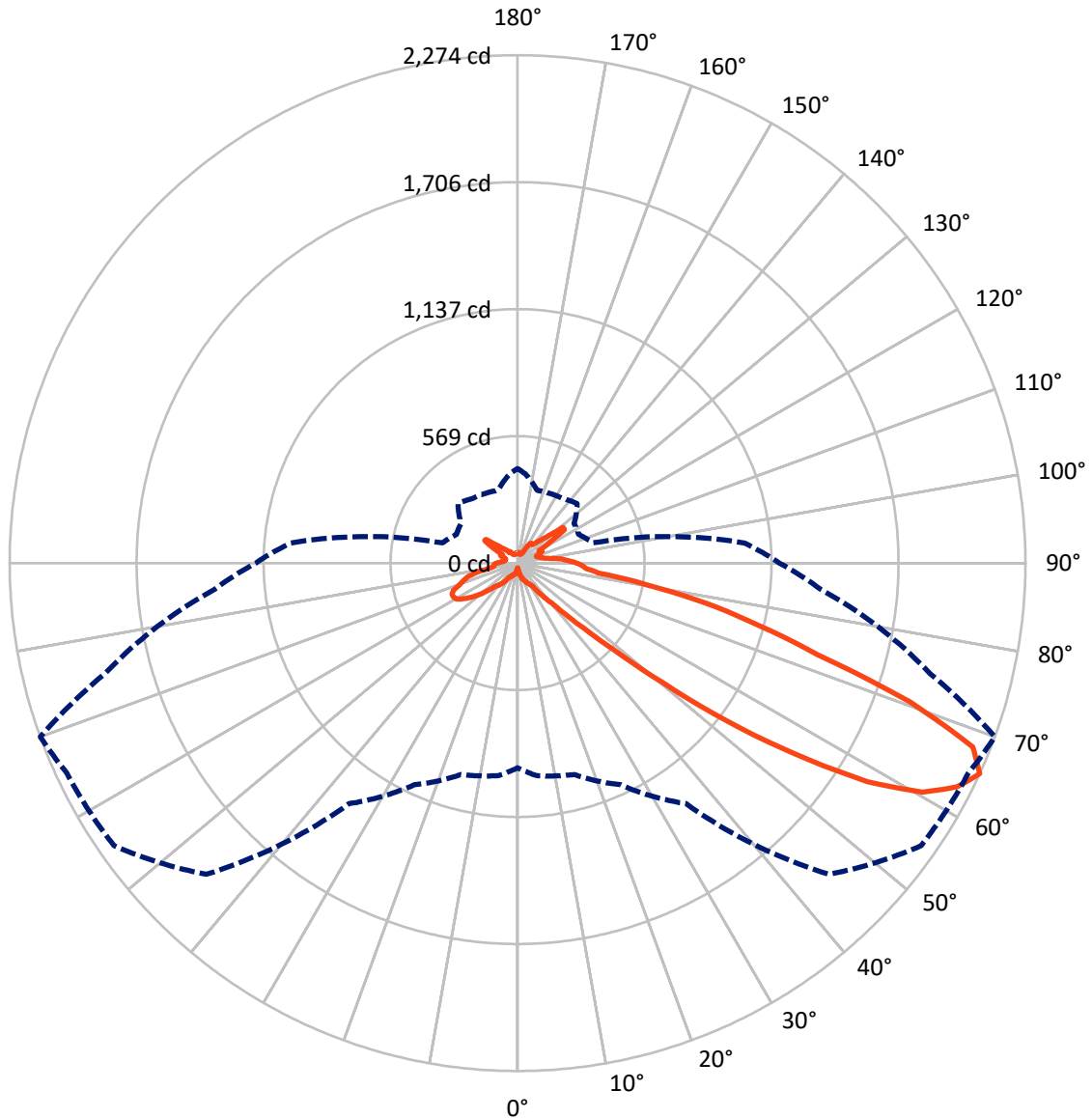
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

REPORT NUMBER: P856127
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856127
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

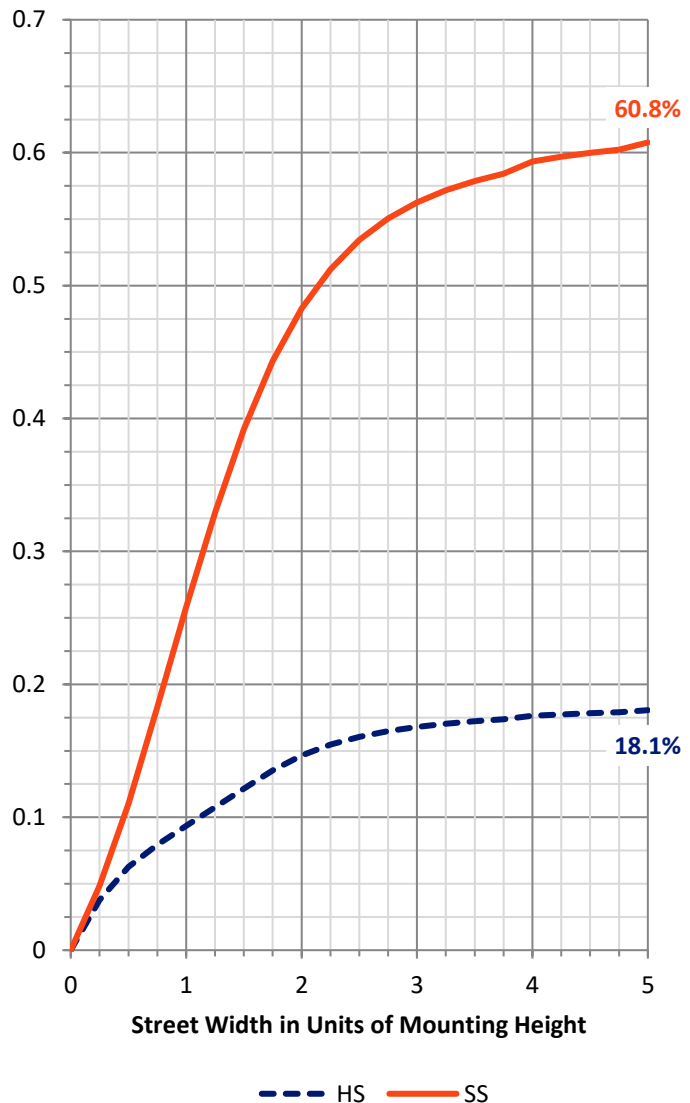
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.3	208.8	794.1
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	1951.8	361.3	2313.2
	% Fixture	62.8	11.6	74.4
Total	Lumens	2537.1	570.1	3107.3
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	16.3	0.5
20°-30°	34.5	1.1
30°-40°	70.4	2.3
40°-50°	178.9	5.8
50°-60°	575.1	18.5
60°-70°	938.5	30.2
70°-80°	534.3	17.2
80°-90°	185.9	6.0
90°-100°	115.7	3.7
100°-110°	73.7	2.4
110°-120°	81.1	2.6
120°-130°	137.1	4.4
130°-140°	80.8	2.6
140°-150°	43.5	1.4
150°-160°	22.0	0.7
160°-170°	12.0	0.4
170°-180°	4.3	0.1
0°-90°	2537.1	81.7
0°-180°	3107.3	100.0



REPORT NUMBER: P856127

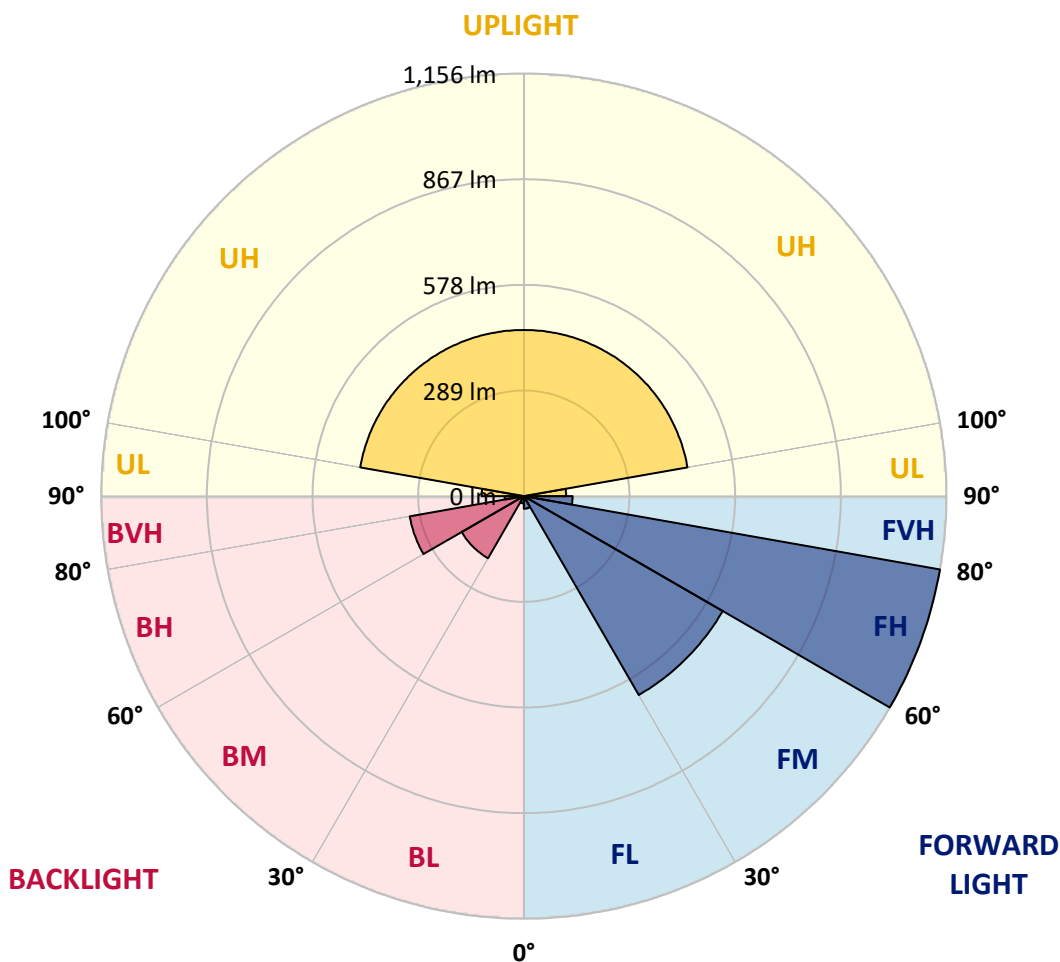
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	34.5	1.1			
FM (30°-60°)	628.2	20.2			
FH (60°-80°)	1155.9	37.2			G1/1800
FVH (80°-90°)	133.3	4.3			G2/225
BL (0°-30°)	19.7	0.6	B0/110		
BM (30°-60°)	196.2	6.3	B0/220		
BH (60°-80°)	316.9	10.2	B1/500		G1/500
BVH (80°-90°)	52.6	1.7			G1/100
UL (90°-100°)	115.7	3.7		U3/500	
UH (100°-180°)	454.5	14.6		U3/500	

BUG Rating: B1-U3-G2

Type III Short





REPORT NUMBER: P856127
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
2.5°	24.7	24.7	25.3	25.3	25.3	24.7	24.3	23.7	23.7	23.7	23.4
5°	32.0	31.7	32.0	33.0	33.3	32.3	31.7	30.7	30.7	30.4	30.4
7.5°	43.2	42.9	42.3	41.3	41.6	42.6	43.9	41.3	40.7	39.1	38.4
10°	54.1	53.5	54.1	52.5	50.9	48.7	50.0	49.3	48.0	46.4	45.1
12.5°	66.0	66.3	67.6	66.3	63.7	60.2	59.6	58.0	56.7	56.4	54.4
15°	78.1	78.5	79.7	79.4	76.8	72.0	70.1	68.5	67.9	66.0	61.8
17.5°	84.5	84.9	85.2	85.5	83.9	80.1	77.2	74.3	73.3	72.7	67.6
20°	87.7	87.1	87.7	89.0	90.3	87.1	84.2	82.6	81.7	79.4	72.7
22.5°	92.9	92.2	91.9	92.9	96.7	94.5	91.6	90.0	89.0	86.1	75.9
25°	98.3	97.7	98.6	98.0	102.8	101.8	98.9	97.3	96.1	92.5	80.7
27.5°	104.4	103.7	104.7	104.1	107.9	108.5	106.6	105.3	103.4	98.3	84.2
30°	109.5	108.9	109.8	109.5	113.4	115.6	114.6	114.3	111.4	105.3	90.3
32.5°	113.7	113.4	115.6	116.6	117.5	122.6	122.0	124.9	121.7	114.3	99.3
35°	123.3	124.2	130.3	136.7	137.7	147.9	149.2	159.8	156.6	147.0	128.7
37.5°	190.5	187.0	180.9	174.8	172.6	192.4	195.3	205.9	197.9	180.0	150.5
40°	203.0	197.2	190.2	185.4	186.0	221.6	215.5	255.5	232.8	205.9	183.8
42.5°	192.8	190.8	215.5	227.0	218.7	270.6	260.3	336.5	310.6	244.6	221.9
45°	241.8	237.9	246.6	258.1	260.6	356.1	349.0	428.8	418.2	305.8	284.7
47.5°	276.7	273.1	284.7	323.7	357.3	460.5	498.9	613.8	576.7	434.5	385.5
50°	381.4	380.7	416.3	462.7	521.6	669.9	772.0	901.1	841.2	615.1	528.7
52.5°	484.8	486.1	529.6	611.9	673.1	935.0	1080.1	1170.3	1178.4	802.1	685.2
55°	562.9	570.9	623.4	761.4	854.0	1171.0	1359.3	1429.4	1509.4	1083.9	848.2
57.5°	715.3	727.5	777.5	912.6	1041.9	1464.9	1719.2	1726.9	1846.3	1396.4	1023.1
60°	848.5	877.0	894.7	1017.3	1193.7	1745.8	1986.6	1971.2	2083.3	1655.5	1200.4
62.5°	889.9	922.5	939.2	1069.8	1313.8	1903.3	2111.4	2130.6	2207.8	1837.3	1309.0
65°	916.7	955.2	980.1	1095.7	1315.1	1970.5	2206.2	2226.7	2274.4	1913.5	1363.1
67.5°	903.0	952.0	984.0	1086.8	1245.9	1918.7	2187.3	2147.9	2198.5	1849.8	1302.6
70°	788.3	839.6	871.9	948.4	1041.6	1613.2	1885.7	1819.7	1864.2	1544.0	1071.1
72.5°	642.3	667.6	687.5	729.4	785.1	1189.9	1432.9	1378.2	1404.7	1161.7	802.8
75°	527.7	535.4	560.0	584.1	593.3	870.3	1135.1	1085.2	1116.2	884.4	638.8
77.5°	383.3	387.8	423.0	426.8	424.6	597.2	894.7	850.8	860.7	657.4	476.8
80°	222.5	231.2	277.3	275.1	271.2	367.9	629.8	612.2	581.5	446.4	330.1
82.5°	156.9	165.5	186.7	191.5	188.9	264.2	408.9	397.4	364.1	310.6	228.3
85°	165.2	166.2	167.1	169.4	165.2	235.7	313.2	307.4	307.7	256.8	188.3
87.5°	163.0	166.8	168.4	169.4	165.2	223.8	291.1	283.7	287.2	244.0	182.8
90°	143.1	150.2	150.8	152.4	150.2	199.8	261.3	254.2	258.7	220.0	166.5
92.5°	116.9	120.7	125.2	131.3	128.7	171.0	222.2	217.1	222.5	190.5	146.3
95°	110.8	115.0	117.8	122.0	118.2	155.9	200.8	190.5	195.0	166.8	126.2
97.5°	91.6	95.1	97.7	99.3	96.4	123.0	154.0	147.0	146.7	129.0	100.9
100°	78.1	80.4	82.6	84.2	81.7	101.8	122.0	119.4	120.1	106.6	86.8
102.5°	74.3	75.6	79.1	79.4	76.5	92.9	109.8	108.9	110.2	98.6	81.3
105°	72.7	73.6	76.5	75.6	73.0	86.8	101.2	101.8	101.8	91.9	76.2
107.5°	67.9	69.5	72.7	71.1	69.8	80.1	93.2	90.9	91.6	85.5	72.4
110°	67.2	68.5	71.7	70.4	69.5	78.1	89.7	89.0	90.0	84.5	74.3



REPORT NUMBER: P856127
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	83.6	82.3	84.9	82.3	83.9	91.3	103.4	102.1	105.0	103.1	92.9
115°	103.1	103.7	106.3	101.2	102.8	110.2	116.9	119.1	121.7	118.8	108.2
117.5°	95.4	100.9	97.7	97.0	95.7	101.5	100.5	106.3	108.9	106.6	102.5
120°	102.1	108.9	99.6	94.8	92.9	107.3	114.3	114.0	112.1	107.6	98.9
122.5°	152.7	153.7	154.3	168.7	163.6	177.7	181.9	176.4	176.4	182.2	164.6
125°	238.2	239.2	238.6	245.0	241.4	254.9	260.3	260.0	256.8	253.9	236.6
127.5°	240.8	240.8	238.6	235.0	238.2	251.4	251.7	263.8	259.7	252.0	236.0
130°	168.1	169.4	177.4	180.0	184.4	187.3	184.1	194.7	196.6	195.3	184.4
132.5°	139.3	141.5	150.2	153.4	156.3	156.6	155.3	163.6	165.5	165.5	160.7
135°	120.4	123.0	123.9	122.3	126.5	129.7	132.2	139.0	138.3	137.0	132.9
137.5°	105.0	106.0	103.1	99.6	101.8	111.1	116.2	123.3	123.0	120.7	113.7
140°	88.7	89.0	87.4	85.8	88.1	96.1	100.9	108.5	107.6	106.0	97.7
142.5°	67.2	68.2	72.4	75.6	81.0	97.7	95.1	101.8	106.6	110.5	91.3
145°	70.8	69.5	68.8	72.4	79.4	103.4	96.1	104.7	106.9	109.5	87.4
147.5°	81.7	82.3	81.3	79.1	88.7	96.4	92.2	99.9	101.2	100.5	91.6
150°	64.0	65.0	65.3	64.4	76.2	75.9	71.7	77.5	78.1	78.1	72.0
152.5°	52.2	52.5	51.9	51.2	58.9	57.6	55.7	57.6	57.3	57.0	55.7
155°	49.6	49.6	49.0	49.3	54.4	53.2	51.9	53.2	52.5	51.6	50.3
157.5°	45.8	46.1	46.1	47.1	50.3	48.0	46.7	47.4	46.7	46.1	46.1
160°	43.2	43.2	43.5	44.8	46.7	44.5	43.5	43.9	43.5	42.9	43.2
162.5°	42.3	42.3	42.6	43.2	43.5	42.3	41.3	41.3	41.3	41.3	42.3
165°	41.6	41.6	41.6	41.9	41.9	41.0	40.7	41.0	41.3	41.6	42.9
167.5°	42.9	42.9	42.9	42.9	42.6	41.9	41.6	41.9	42.3	42.6	43.5
170°	44.8	44.5	44.5	44.2	43.9	43.2	42.9	42.6	42.6	42.9	43.2
172.5°	46.1	46.1	45.8	45.8	45.5	44.8	44.2	43.9	43.9	43.9	43.9
175°	47.7	47.7	47.7	47.7	47.4	46.7	46.4	45.8	45.8	45.8	45.8
177.5°	49.6	49.6	49.6	49.6	49.0	48.4	47.7	47.1	47.1	47.1	46.7
180°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4



REPORT NUMBER: P856127
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
2.5°	23.1	22.7	21.8	21.5	21.1	20.5	19.9	19.5	19.2	19.2	19.5
5°	30.7	30.4	30.4	29.5	28.5	26.9	26.3	26.3	26.6	26.9	27.5
7.5°	38.7	39.4	40.0	38.4	35.5	31.7	29.5	30.1	31.7	33.0	33.0
10°	44.8	44.8	47.1	45.1	40.3	35.5	32.3	31.7	32.0	32.3	32.7
12.5°	53.5	53.5	52.2	47.1	42.3	37.5	34.9	34.3	34.3	33.0	32.7
15°	59.9	58.0	53.5	48.7	44.5	39.7	36.8	35.9	34.9	33.9	33.6
17.5°	63.7	60.2	54.1	49.6	45.5	41.6	38.7	36.8	35.9	36.2	36.2
20°	68.2	64.4	58.9	54.1	49.0	43.9	40.3	37.5	36.5	36.8	36.5
22.5°	71.7	67.9	62.4	57.0	51.6	46.1	41.9	38.4	37.1	37.5	37.5
25°	75.9	72.7	66.9	60.5	53.8	48.7	44.5	40.3	38.4	38.1	38.1
27.5°	80.1	77.8	71.7	64.0	57.0	50.9	46.7	41.9	39.7	38.7	38.7
30°	85.5	82.9	76.8	67.6	59.9	54.1	49.6	44.5	41.3	39.7	39.4
32.5°	94.1	91.3	83.9	74.0	63.1	57.3	52.5	46.7	42.6	40.7	40.3
35°	122.3	117.8	106.3	94.8	77.2	64.0	56.0	48.7	43.9	41.3	41.0
37.5°	139.9	129.0	113.7	106.0	86.8	78.5	67.6	55.7	45.8	42.6	41.9
40°	168.4	153.4	134.2	119.1	84.5	85.8	79.1	69.5	54.4	44.8	43.9
42.5°	192.4	173.6	144.4	124.9	84.9	89.7	84.5	76.5	65.3	53.2	51.2
45°	237.3	212.9	167.8	134.2	87.1	95.4	89.0	80.7	70.8	62.4	61.5
47.5°	320.5	287.5	209.7	149.5	101.8	110.8	99.3	88.4	79.4	69.8	68.2
50°	438.7	399.3	258.1	161.7	127.1	146.0	125.2	106.9	96.7	89.7	88.7
52.5°	574.8	533.5	293.6	184.1	157.9	189.6	165.5	144.4	131.0	131.0	132.9
55°	732.9	691.6	322.1	215.2	195.6	237.6	211.7	194.4	188.0	215.2	222.5
57.5°	889.9	837.3	341.3	246.9	239.8	293.9	262.9	248.2	260.0	340.7	365.7
60°	1033.0	946.2	356.4	277.0	277.6	338.8	315.7	314.8	333.0	436.1	467.8
62.5°	1115.6	997.4	355.4	294.3	299.7	366.6	347.4	352.5	362.8	452.1	476.1
65°	1172.3	1021.8	348.1	302.0	309.0	376.6	352.5	343.9	337.2	400.3	423.3
67.5°	1133.2	964.8	331.4	290.7	303.2	362.2	330.5	305.8	292.7	324.7	340.4
70°	949.1	804.7	293.3	261.6	273.1	305.2	274.7	250.4	236.6	253.9	261.3
72.5°	718.9	612.2	264.5	244.6	239.5	252.3	223.5	196.3	188.0	199.2	200.8
75°	572.5	479.0	243.4	221.3	201.1	213.6	178.4	145.4	140.6	140.6	138.0
77.5°	429.4	355.1	207.5	172.3	148.3	168.7	132.9	101.2	94.8	93.5	90.0
80°	287.9	241.8	139.6	114.3	106.6	125.2	94.5	74.3	74.6	74.3	70.1
82.5°	201.1	186.7	113.4	99.6	91.3	98.6	85.5	71.4	70.8	71.4	66.9
85°	178.4	171.0	109.8	102.8	94.1	95.1	82.0	67.6	67.9	69.2	65.3
87.5°	171.3	163.0	110.2	99.3	91.9	88.1	74.3	62.4	64.4	65.6	62.4
90°	154.3	146.0	101.2	89.7	82.0	76.5	65.6	59.2	61.8	63.1	60.2
92.5°	133.8	125.2	84.2	79.1	77.2	77.2	68.8	63.1	64.7	65.3	62.8
95°	115.3	106.9	74.9	69.5	67.9	68.2	61.5	56.7	57.6	57.3	55.4
97.5°	93.2	88.1	65.3	61.8	60.2	59.6	55.1	51.6	53.5	54.8	53.2
100°	82.3	79.7	63.1	60.5	58.3	58.0	54.1	51.9	53.5	55.4	54.1
102.5°	76.8	74.9	60.2	56.7	55.1	54.4	51.9	49.3	50.9	52.8	51.9
105°	72.4	69.5	57.6	54.4	52.2	51.9	49.3	46.1	47.1	49.6	49.0
107.5°	68.5	66.6	57.3	53.8	50.9	50.9	48.0	45.5	45.8	46.7	46.7
110°	71.7	69.5	59.6	57.0	53.2	51.9	51.2	49.3	47.7	47.1	47.1



REPORT NUMBER: P856127
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	88.7	84.5	74.6	71.7	65.3	60.8	56.7	52.8	50.3	49.3	48.7
115°	104.7	99.9	88.1	80.7	72.0	65.3	59.6	55.4	51.6	50.3	51.6
117.5°	107.9	95.1	76.8	70.8	65.6	61.5	58.3	55.1	52.2	53.2	52.2
120°	106.9	91.3	77.5	86.1	77.5	67.9	60.2	60.2	59.2	54.4	55.4
122.5°	164.6	153.7	137.0	131.9	107.6	98.3	83.9	71.7	59.9	53.2	50.0
125°	225.4	214.9	189.2	169.7	145.4	119.8	91.9	70.8	55.4	49.0	50.0
127.5°	226.7	217.1	192.8	159.8	127.8	102.5	76.5	62.8	54.1	50.0	49.3
130°	176.8	167.5	146.7	121.4	101.2	84.5	68.8	56.7	49.0	45.8	44.8
132.5°	153.1	144.7	125.5	102.5	87.7	74.6	61.5	49.3	44.2	41.9	42.3
135°	128.7	118.8	100.5	88.1	78.8	66.9	55.1	45.1	42.6	41.9	41.6
137.5°	109.2	102.1	89.3	79.7	70.8	60.2	48.4	42.3	41.3	41.9	41.3
140°	92.9	87.1	80.1	71.7	60.8	50.9	43.2	40.3	41.9	42.3	41.9
142.5°	80.1	74.3	66.9	55.7	50.6	46.1	44.2	41.9	41.9	41.6	41.3
145°	66.9	59.2	55.7	57.3	54.1	49.6	46.1	41.6	40.0	40.0	40.3
147.5°	76.8	68.8	64.4	60.8	54.8	48.4	42.9	38.7	38.1	39.4	39.1
150°	66.3	58.9	55.7	50.9	47.1	42.3	38.7	37.1	37.5	39.1	39.1
152.5°	52.8	47.7	45.8	44.5	42.6	39.7	37.8	37.1	37.8	38.4	38.4
155°	49.6	46.7	44.5	43.5	41.3	39.1	37.5	37.1	37.8	38.4	39.1
157.5°	46.4	45.5	42.6	41.6	39.7	38.7	37.8	37.8	38.1	38.7	39.4
160°	44.2	43.9	41.3	41.0	39.7	39.1	39.1	39.4	39.7	39.7	39.7
162.5°	42.9	42.9	41.9	41.3	41.0	40.7	41.6	41.9	41.6	41.6	41.6
165°	43.2	43.5	42.6	41.9	41.6	42.3	43.9	43.9	43.2	42.9	42.6
167.5°	43.5	43.9	43.2	42.9	42.9	43.5	44.2	43.9	43.5	43.2	42.9
170°	43.2	43.5	43.5	43.9	43.9	43.9	44.5	44.5	43.9	43.5	43.5
172.5°	43.9	44.2	44.5	44.8	45.1	44.8	45.1	45.1	45.1	45.1	45.5
175°	45.8	45.8	46.1	46.1	45.8	46.1	46.1	46.1	46.4	47.1	47.1
177.5°	46.7	46.7	46.4	46.4	46.1	46.4	46.4	46.4	46.4	46.7	46.4
180°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

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.

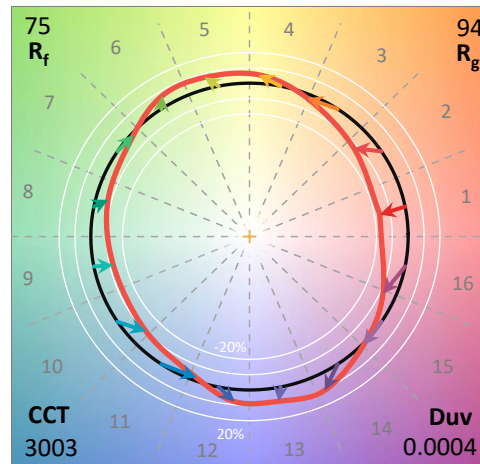
Test Information

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

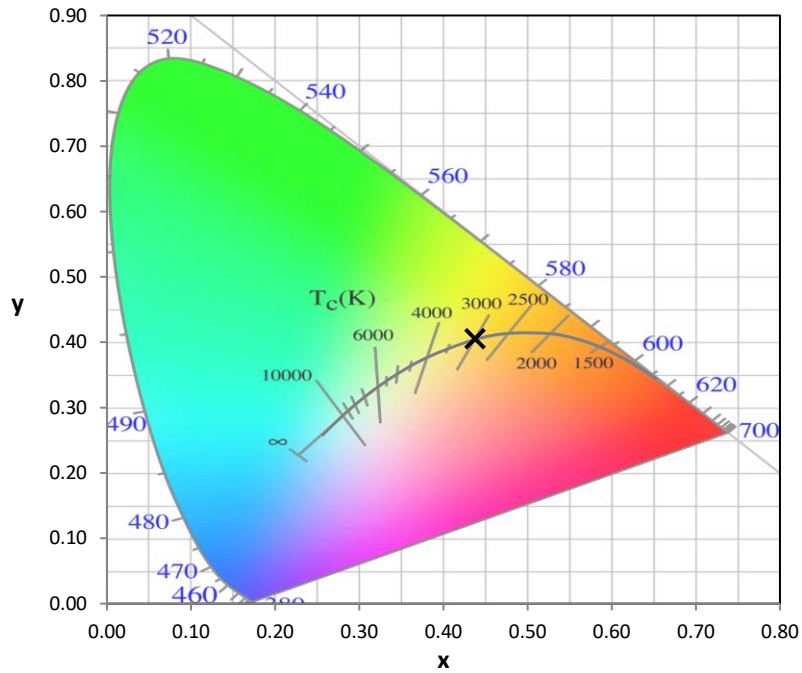
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

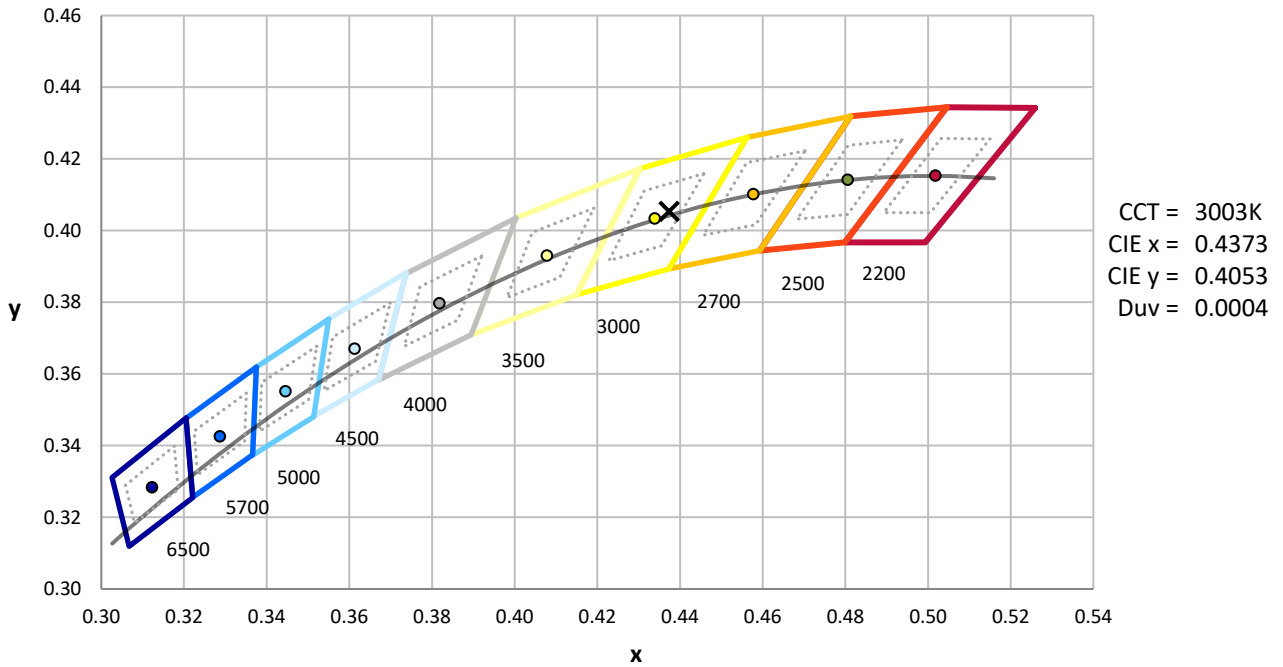
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-4

CIE 1931 Chromaticity Diagram



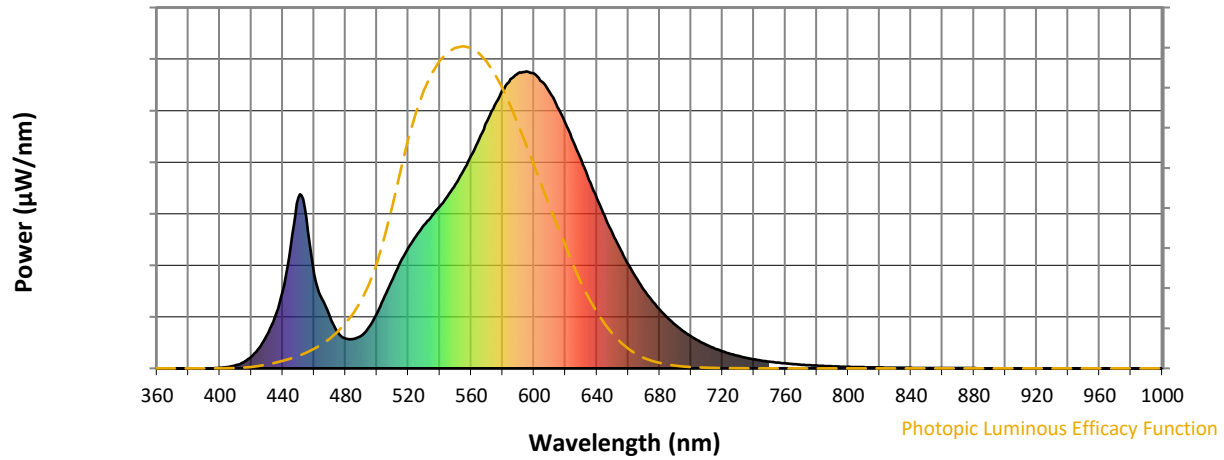
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

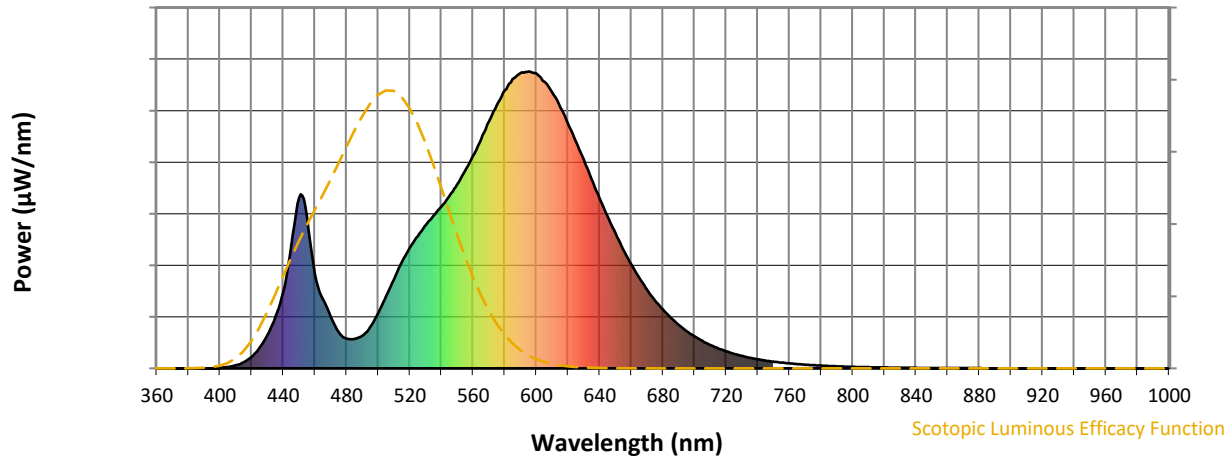


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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



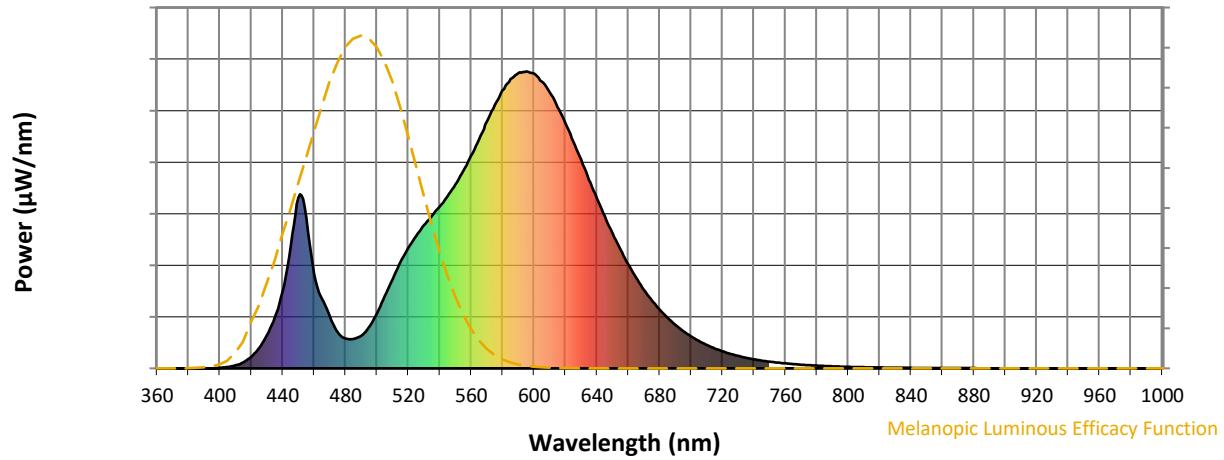
Scotopic Lumens: NR

S/P: 1.21

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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

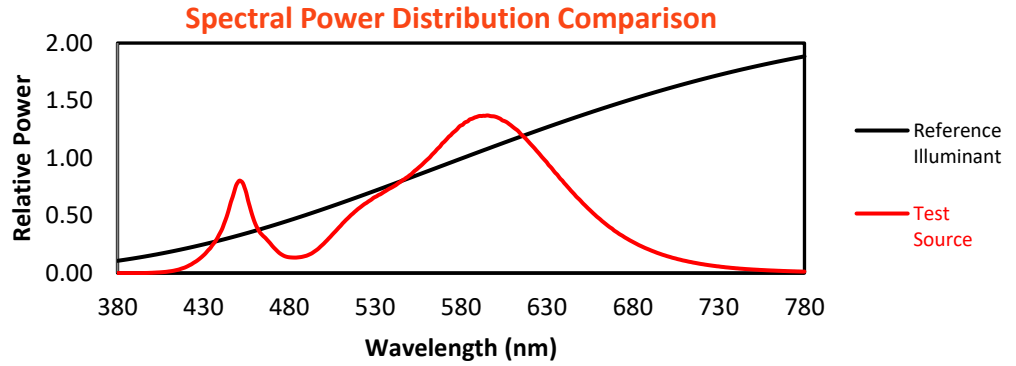
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	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

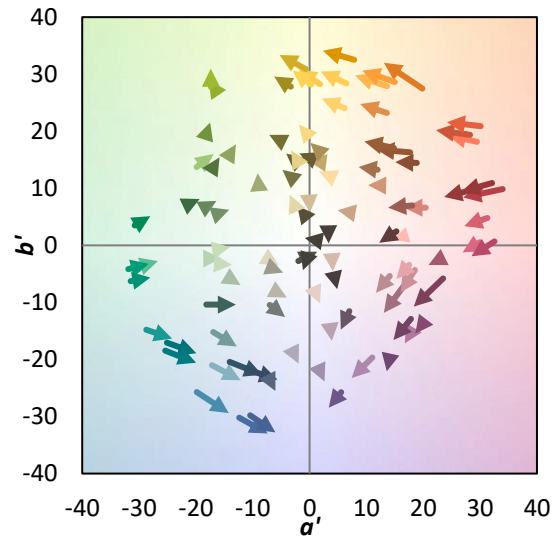
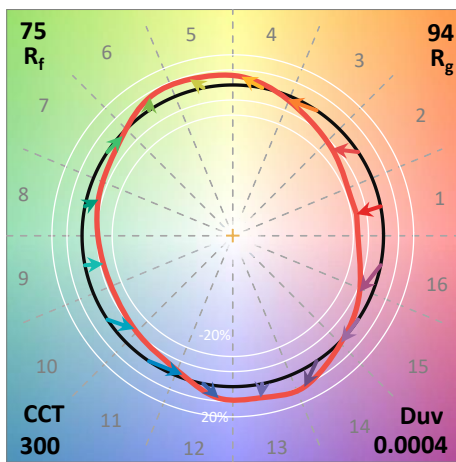
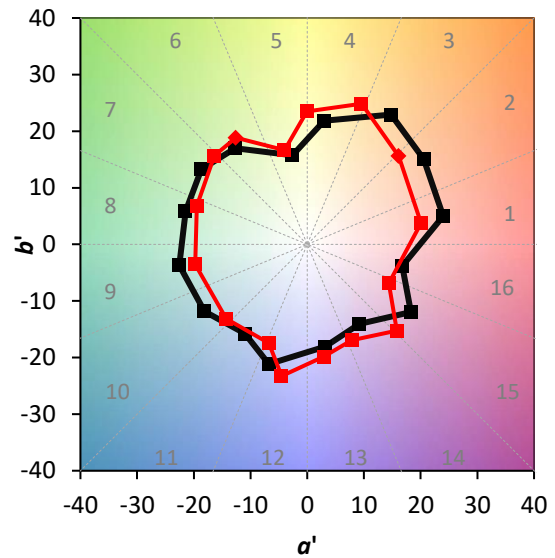
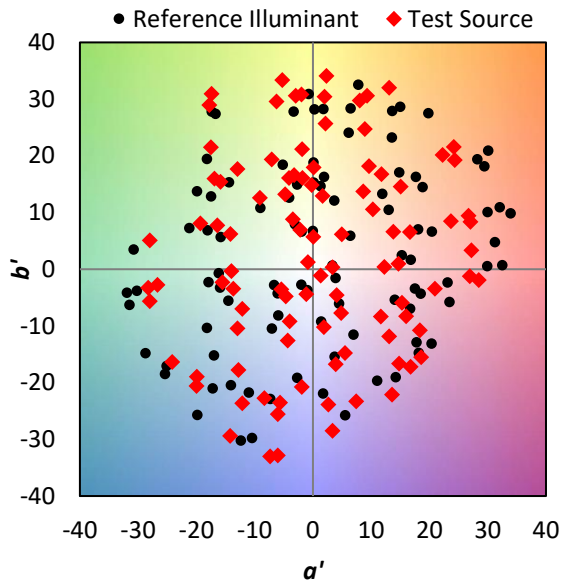
TM-30-18

Summary

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



Color Vector Graphics

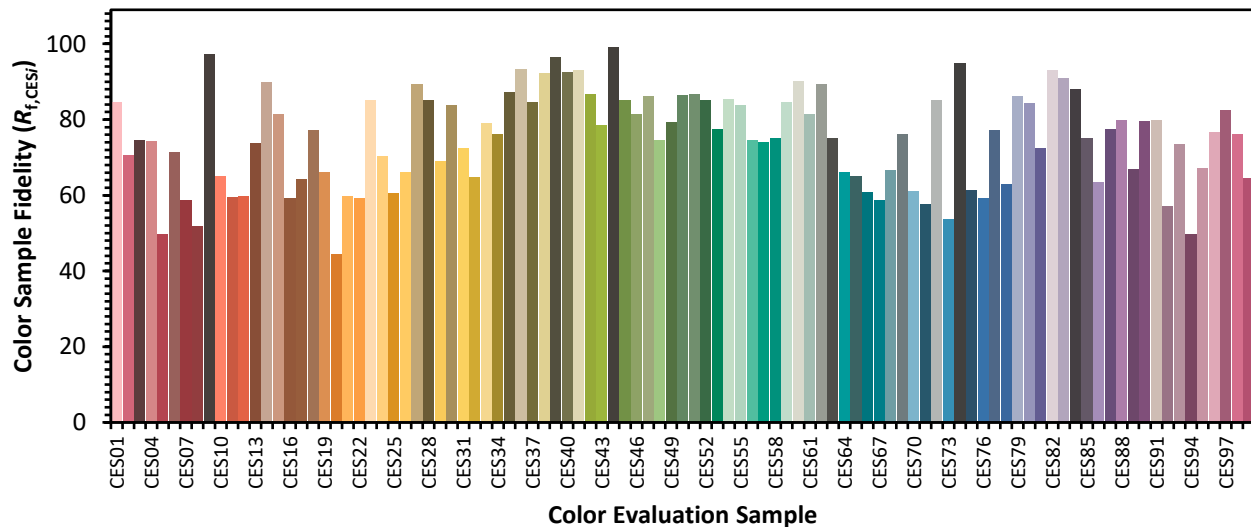


REPORT NUMBER: SP1-2406-133-4

TM-30-18

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

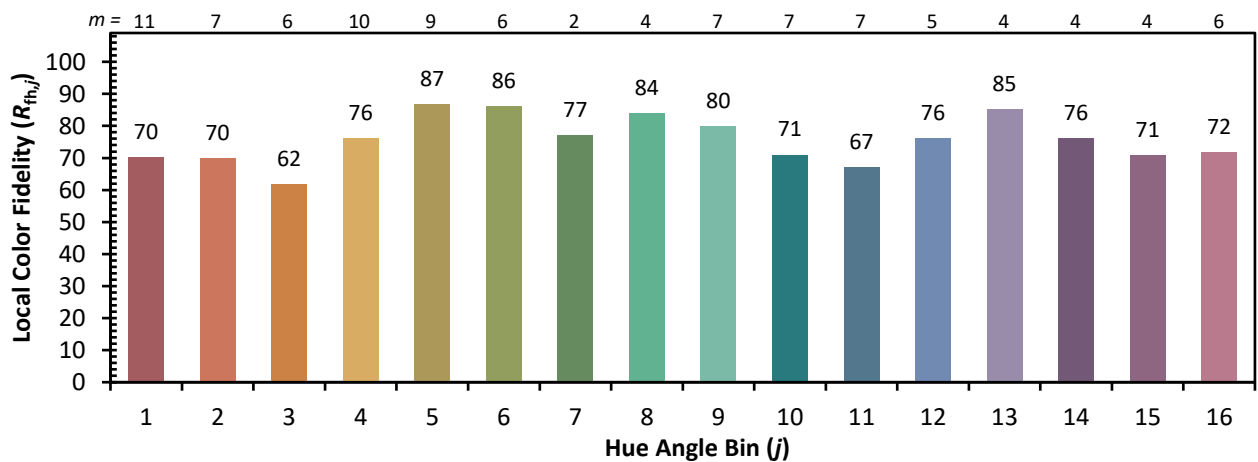
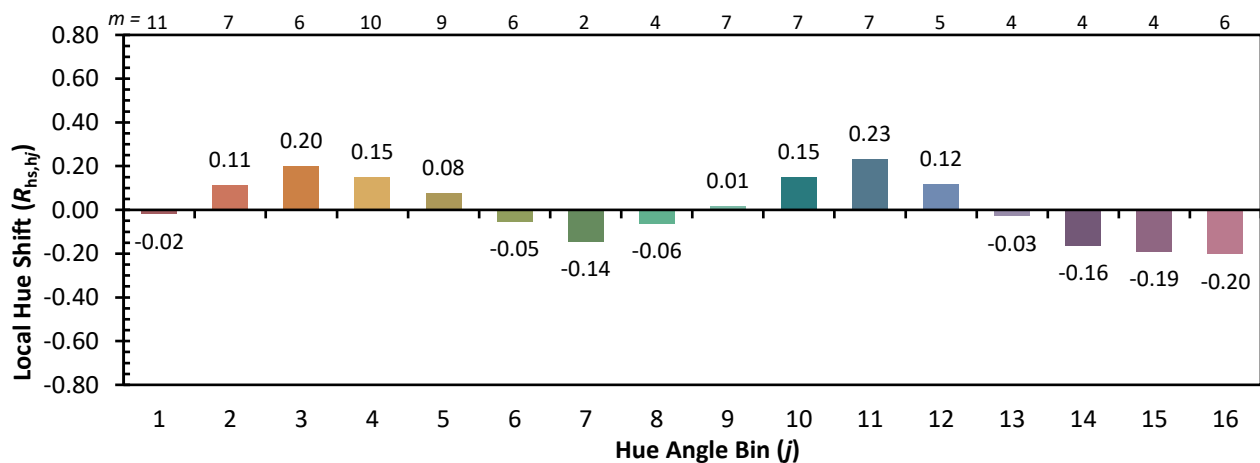
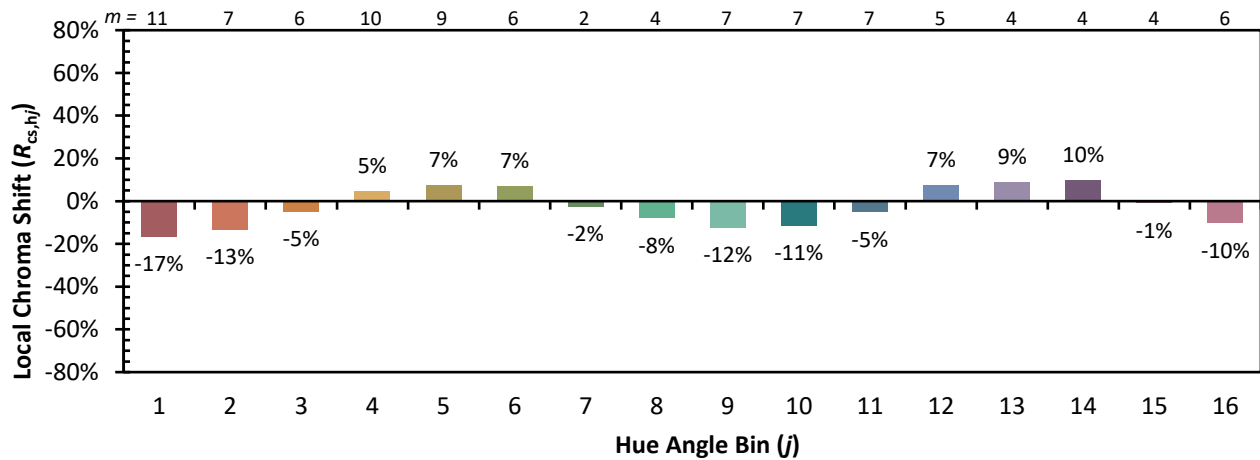
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82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



REPORT NUMBER: SP1-2406-133-4

TM-30-18

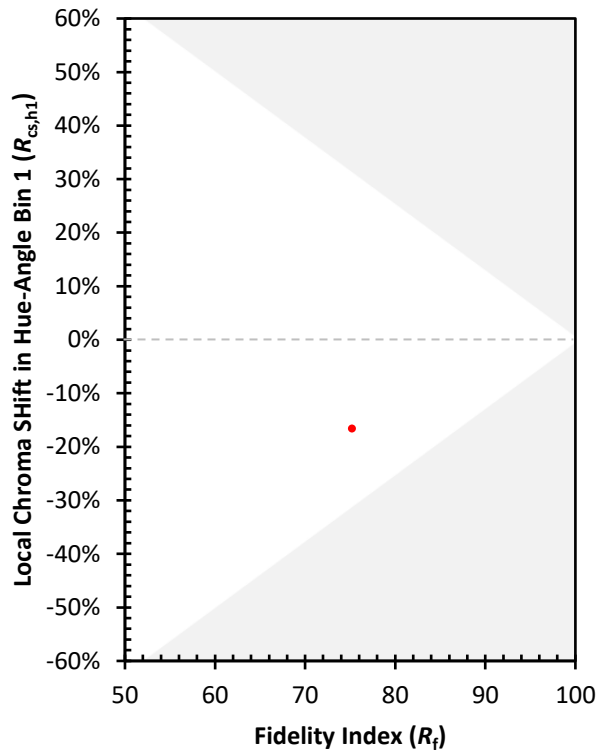
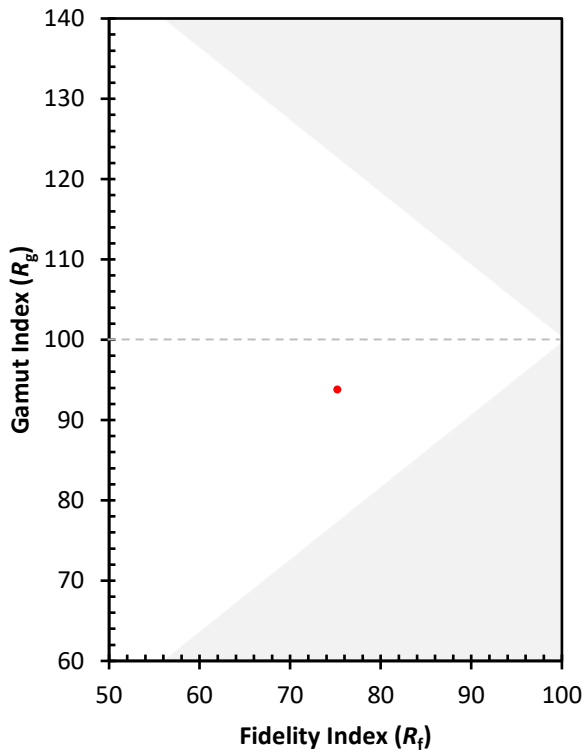
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)