

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: P856106

Luminaire Tested: **FFX-CLB-50-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856106
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-722-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

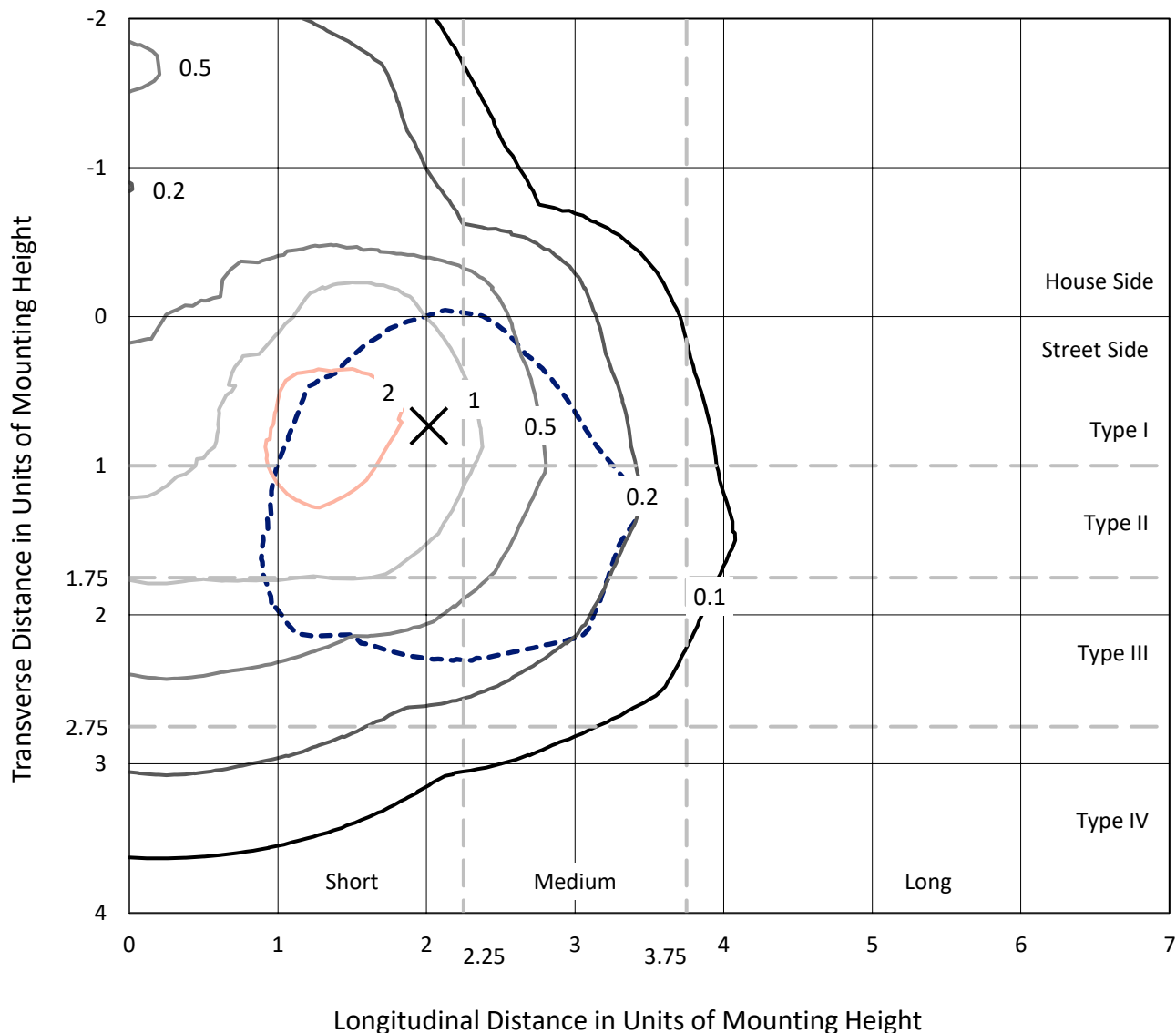
Lumens per Lamp: N/A
Luminaire Lumens: 6819.1 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

Input Watts (W): 50.5
Input Voltage (V): 120
Input Current (A_{in}): 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: P856106
 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

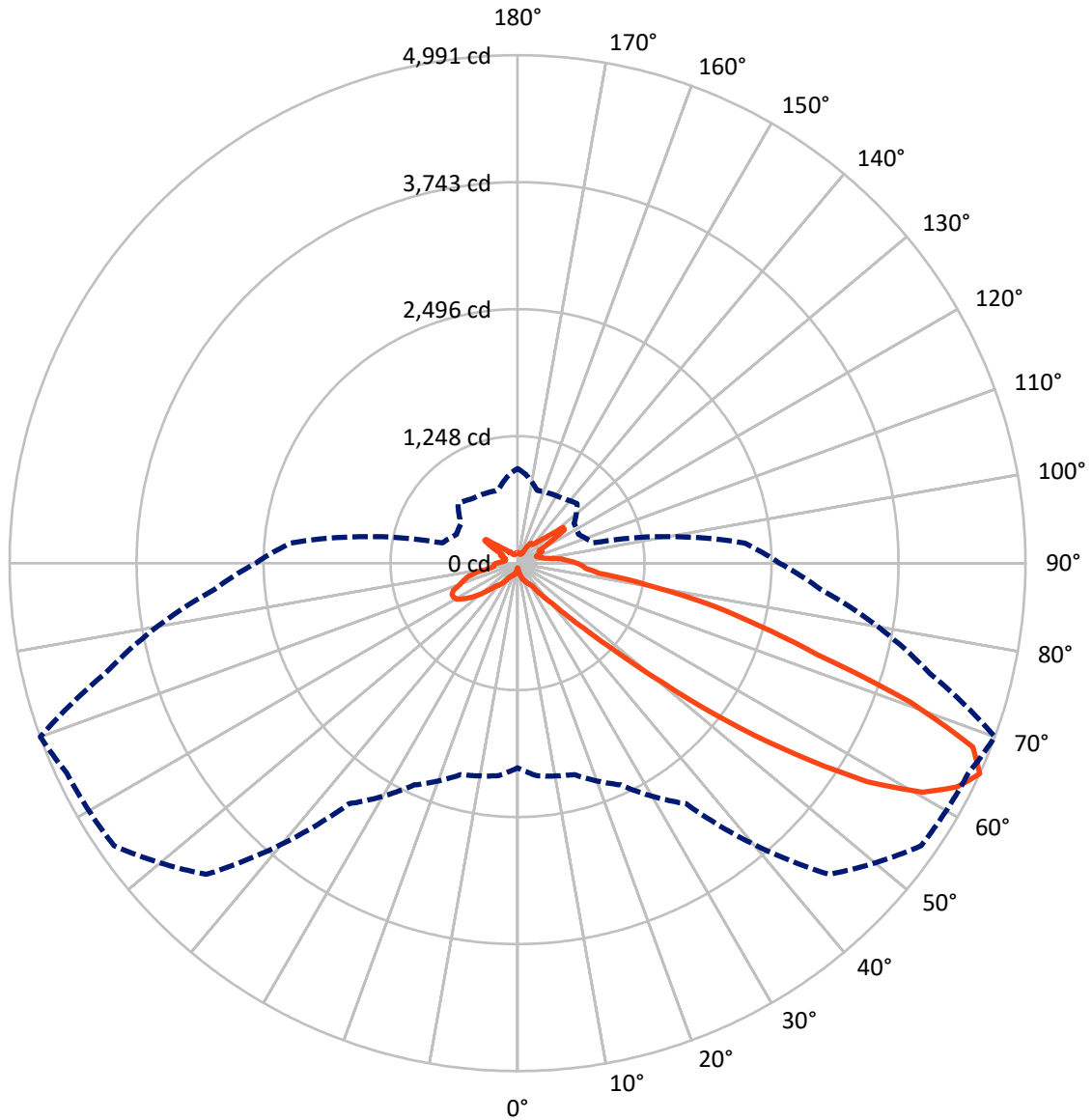
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

REPORT NUMBER: P856106
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856106
 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

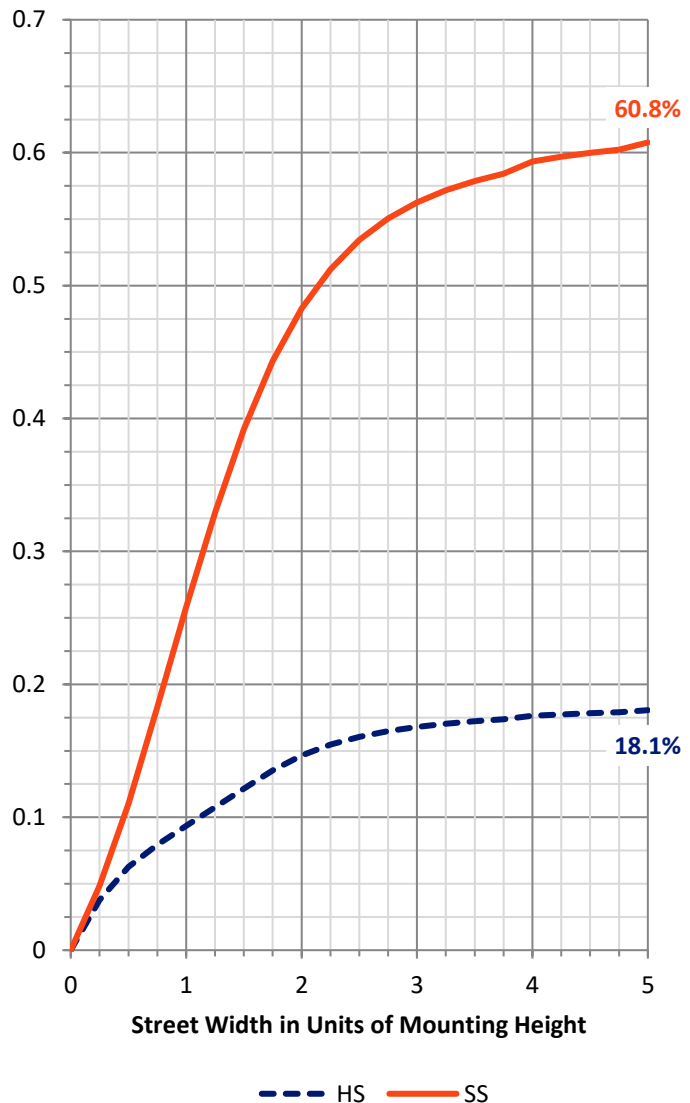
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1284.5	458.3	1742.8
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	4283.4	793.0	5076.4
	% Fixture	62.8	11.6	74.4
Total	Lumens	5567.9	1251.2	6819.1
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	35.7	0.5
20°-30°	75.8	1.1
30°-40°	154.4	2.3
40°-50°	392.7	5.8
50°-60°	1262.0	18.5
60°-70°	2059.5	30.2
70°-80°	1172.5	17.2
80°-90°	408.0	6.0
90°-100°	253.9	3.7
100°-110°	161.7	2.4
110°-120°	177.9	2.6
120°-130°	300.8	4.4
130°-140°	177.3	2.6
140°-150°	95.4	1.4
150°-160°	48.2	0.7
160°-170°	26.4	0.4
170°-180°	9.5	0.1
0°-90°	5567.9	81.7
0°-180°	6819.1	100.0



REPORT NUMBER: P856106

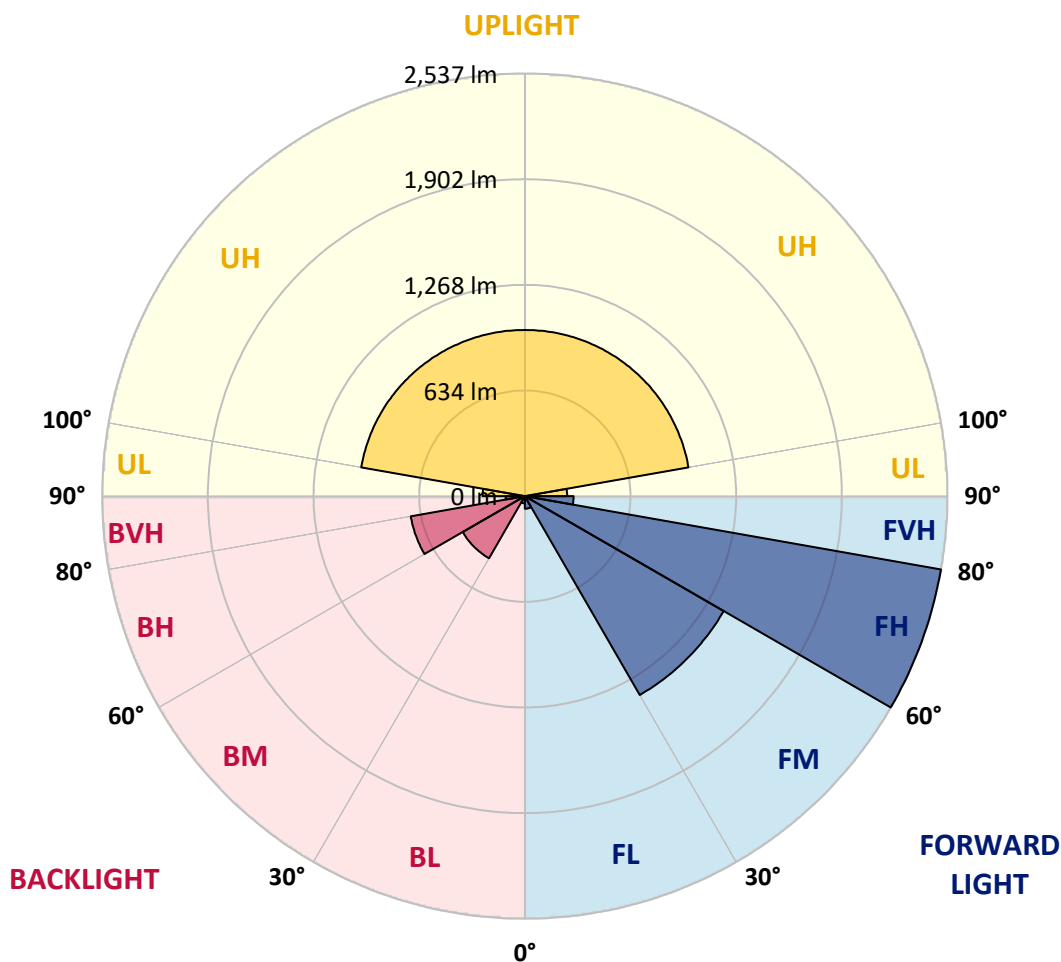
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	75.7	1.1			
FM (30°-60°)	1378.6	20.2			
FH (60°-80°)	2536.6	37.2			G2/5000
FVH (80°-90°)	292.5	4.3			G3/500
BL (0°-30°)	43.2	0.6	B0/110		
BM (30°-60°)	430.5	6.3	B1/1000		
BH (60°-80°)	695.4	10.2	B2/1000		G2/1000
BVH (80°-90°)	115.4	1.7			G2/225
UL (90°-100°)	253.9	3.7		U3/500	
UH (100°-180°)	997.3	14.6		U4/1000	

BUG Rating: B2-U4-G3

Type III Short





REPORT NUMBER: P856106
 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	54.1	54.1	55.5	55.5	55.5	54.1	53.4	52.0	52.0	52.0	51.3
5°	70.3	69.6	70.3	72.4	73.1	71.0	69.6	67.5	67.5	66.8	66.8
7.5°	94.9	94.2	92.8	90.6	91.4	93.5	96.3	90.6	89.2	85.7	84.3
10°	118.8	117.4	118.8	115.2	111.7	106.8	109.6	108.2	105.4	101.9	99.1
12.5°	144.8	145.5	148.3	145.5	139.8	132.1	130.7	127.2	124.4	123.7	119.5
15°	171.5	172.2	175.0	174.3	168.6	158.1	153.9	150.4	149.0	144.8	135.6
17.5°	185.5	186.2	186.9	187.6	184.1	175.7	169.4	163.0	160.9	159.5	148.3
20°	192.5	191.1	192.5	195.4	198.2	191.1	184.8	181.3	179.2	174.3	159.5
22.5°	203.8	202.4	201.7	203.8	212.2	207.3	201.0	197.5	195.4	189.0	166.5
25°	215.7	214.3	216.4	215.0	225.6	223.5	217.1	213.6	210.8	203.1	177.1
27.5°	229.1	227.7	229.8	228.4	236.8	238.2	234.0	231.2	227.0	215.7	184.8
30°	240.3	238.9	241.0	240.3	248.8	253.7	251.6	250.9	244.5	231.2	198.2
32.5°	249.5	248.8	253.7	255.8	257.9	269.1	267.7	274.1	267.0	250.9	217.8
35°	270.5	272.7	286.0	300.1	302.2	324.7	327.5	350.7	343.6	322.5	282.5
37.5°	418.1	410.4	397.0	383.7	378.8	422.3	428.7	451.8	434.3	394.9	330.3
40°	445.5	432.9	417.4	406.9	408.3	486.3	472.9	560.8	510.9	451.8	403.4
42.5°	423.0	418.8	472.9	498.2	479.9	593.8	571.3	738.5	681.6	536.9	487.0
45°	530.5	522.1	541.1	566.4	572.0	781.4	766.0	940.9	917.7	671.1	624.7
47.5°	607.1	599.4	624.7	710.4	784.2	1010.5	1094.8	1347.1	1265.6	953.6	846.1
50°	836.9	835.5	913.5	1015.4	1144.7	1470.1	1694.2	1977.4	1846.0	1349.9	1160.2
52.5°	1063.9	1066.7	1162.3	1342.9	1477.1	2051.9	2370.2	2568.4	2586.0	1760.3	1503.8
55°	1235.4	1252.9	1368.2	1671.0	1874.1	2569.8	2983.0	3136.9	3312.6	2378.7	1861.5
57.5°	1569.8	1596.6	1706.2	2002.7	2286.6	3214.9	3772.8	3789.7	4051.8	3064.5	2245.2
60°	1862.2	1924.7	1963.4	2232.5	2619.7	3831.2	4359.6	4325.9	4571.8	3633.0	2634.5
62.5°	1952.8	2024.5	2061.0	2347.7	2883.2	4176.9	4633.7	4675.8	4845.2	4032.1	2872.7
65°	2011.9	2096.2	2151.0	2404.7	2886.0	4324.5	4841.7	4886.6	4991.3	4199.4	2991.4
67.5°	1981.6	2089.1	2159.4	2385.0	2734.2	4210.6	4800.2	4713.8	4824.8	4059.5	2858.6
70°	1730.1	1842.5	1913.5	2081.4	2285.9	3540.2	4138.2	3993.5	4091.2	3388.5	2350.6
72.5°	1409.6	1465.1	1508.7	1600.8	1723.0	2611.3	3144.6	3024.5	3082.8	2549.4	1761.7
75°	1158.1	1174.9	1229.0	1281.7	1302.1	1910.0	2491.1	2381.5	2449.6	1940.9	1401.9
77.5°	841.1	851.0	928.3	936.7	931.8	1310.5	1963.4	1867.1	1888.9	1442.7	1046.3
80°	488.4	507.4	608.5	603.6	595.2	807.4	1382.2	1343.6	1276.1	979.6	724.5
82.5°	344.3	363.3	409.7	420.2	414.6	579.7	897.4	872.1	799.0	681.6	501.0
85°	362.6	364.7	366.8	371.7	362.6	517.2	687.2	674.6	675.3	563.6	413.2
87.5°	357.7	366.1	369.6	371.7	362.6	491.2	638.8	622.6	630.3	535.5	401.2
90°	314.1	329.6	331.0	334.5	329.6	438.5	573.4	557.9	567.8	482.8	365.4
92.5°	256.5	264.9	274.8	288.1	282.5	375.2	487.7	476.4	488.4	418.1	321.1
95°	243.1	252.3	258.6	267.7	259.3	342.2	440.6	418.1	427.9	366.1	276.9
97.5°	201.0	208.7	214.3	217.8	211.5	269.8	338.0	322.5	321.8	283.2	221.4
100°	171.5	176.4	181.3	184.8	179.2	223.5	267.7	262.1	263.5	234.0	190.4
102.5°	163.0	165.8	173.6	174.3	167.9	203.8	241.0	238.9	241.7	216.4	178.5
105°	159.5	161.6	167.9	165.8	160.2	190.4	222.1	223.5	223.5	201.7	167.2
107.5°	149.0	152.5	159.5	156.0	153.2	175.7	204.5	199.6	201.0	187.6	158.8
110°	147.6	150.4	157.4	154.6	152.5	171.5	196.8	195.4	197.5	185.5	163.0



REPORT NUMBER: P856106
 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	183.4	180.6	186.2	180.6	184.1	200.3	227.0	224.2	230.5	226.3	203.8
115°	226.3	227.7	233.3	222.1	225.6	241.7	256.5	261.4	267.0	260.7	237.5
117.5°	209.4	221.4	214.3	212.9	210.1	222.8	220.7	233.3	238.9	234.0	224.9
120°	224.2	238.9	218.5	208.0	203.8	235.4	250.9	250.2	245.9	236.1	217.1
122.5°	335.2	337.3	338.7	370.3	359.1	390.0	399.1	387.2	387.2	399.8	361.2
125°	522.8	524.9	523.5	537.6	529.8	559.4	571.3	570.6	563.6	557.2	519.3
127.5°	528.4	528.4	523.5	515.8	522.8	551.6	552.3	579.0	569.9	553.0	517.9
130°	368.9	371.7	389.3	394.9	404.8	411.1	404.1	427.2	431.5	428.7	404.8
132.5°	305.7	310.6	329.6	336.6	342.9	343.6	340.8	359.1	363.3	363.3	352.8
135°	264.2	269.8	271.9	268.4	277.6	284.6	290.2	305.0	303.6	300.8	291.6
137.5°	230.5	232.6	226.3	218.5	223.5	243.8	255.1	270.5	269.8	264.9	249.5
140°	194.6	195.4	191.8	188.3	193.2	210.8	221.4	238.2	236.1	232.6	214.3
142.5°	147.6	149.7	158.8	165.8	177.8	214.3	208.7	223.5	234.0	242.4	200.3
145°	155.3	152.5	151.1	158.8	174.3	227.0	210.8	229.8	234.7	240.3	191.8
147.5°	179.2	180.6	178.5	173.6	194.6	211.5	202.4	219.2	222.1	220.7	201.0
150°	140.5	142.6	143.4	141.2	167.2	166.5	157.4	170.1	171.5	171.5	158.1
152.5°	114.5	115.2	113.8	112.4	129.3	126.5	122.3	126.5	125.8	125.1	122.3
155°	108.9	108.9	107.5	108.2	119.5	116.6	113.8	116.6	115.2	113.1	110.3
157.5°	100.5	101.2	101.2	103.3	110.3	105.4	102.6	104.0	102.6	101.2	101.2
160°	94.9	94.9	95.6	98.4	102.6	97.7	95.6	96.3	95.6	94.2	94.9
162.5°	92.8	92.8	93.5	94.9	95.6	92.8	90.6	90.6	90.6	90.6	92.8
165°	91.4	91.4	91.4	92.1	92.1	89.9	89.2	89.9	90.6	91.4	94.2
167.5°	94.2	94.2	94.2	94.2	93.5	92.1	91.4	92.1	92.8	93.5	95.6
170°	98.4	97.7	97.7	97.0	96.3	94.9	94.2	93.5	93.5	94.2	94.9
172.5°	101.2	101.2	100.5	100.5	99.8	98.4	97.0	96.3	96.3	96.3	96.3
175°	104.7	104.7	104.7	104.7	104.0	102.6	101.9	100.5	100.5	100.5	100.5
177.5°	108.9	108.9	108.9	108.9	107.5	106.1	104.7	103.3	103.3	103.3	102.6
180°	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0



REPORT NUMBER: P856106
 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	50.6	49.9	47.8	47.1	46.4	45.0	43.6	42.9	42.2	42.2	42.9
5°	67.5	66.8	66.8	64.6	62.5	59.0	57.6	57.6	58.3	59.0	60.4
7.5°	85.0	86.4	87.8	84.3	78.0	69.6	64.6	66.1	69.6	72.4	72.4
10°	98.4	98.4	103.3	99.1	88.5	78.0	71.0	69.6	70.3	71.0	71.7
12.5°	117.4	117.4	114.5	103.3	92.8	82.2	76.6	75.2	75.2	72.4	71.7
15°	131.4	127.2	117.4	106.8	97.7	87.1	80.8	78.7	76.6	74.5	73.8
17.5°	139.8	132.1	118.8	108.9	99.8	91.4	85.0	80.8	78.7	79.4	79.4
20°	149.7	141.2	129.3	118.8	107.5	96.3	88.5	82.2	80.1	80.8	80.1
22.5°	157.4	149.0	137.0	125.1	113.1	101.2	92.1	84.3	81.5	82.2	82.2
25°	166.5	159.5	146.9	132.8	118.1	106.8	97.7	88.5	84.3	83.6	83.6
27.5°	175.7	170.8	157.4	140.5	125.1	111.7	102.6	92.1	87.1	85.0	85.0
30°	187.6	182.0	168.6	148.3	131.4	118.8	108.9	97.7	90.6	87.1	86.4
32.5°	206.6	200.3	184.1	162.3	138.4	125.8	115.2	102.6	93.5	89.2	88.5
35°	268.4	258.6	233.3	208.0	169.4	140.5	123.0	106.8	96.3	90.6	89.9
37.5°	307.1	283.2	249.5	232.6	190.4	172.2	148.3	122.3	100.5	93.5	92.1
40°	369.6	336.6	294.4	261.4	185.5	188.3	173.6	152.5	119.5	98.4	96.3
42.5°	422.3	380.9	316.9	274.1	186.2	196.8	185.5	167.9	143.4	116.6	112.4
45°	520.7	467.3	368.2	294.4	191.1	209.4	195.4	177.1	155.3	137.0	134.9
47.5°	703.4	631.0	460.3	328.2	223.5	243.1	217.8	193.9	174.3	153.2	149.7
50°	962.7	876.3	566.4	354.9	279.0	320.4	274.8	234.7	212.2	196.8	194.6
52.5°	1261.4	1170.7	644.4	404.1	346.4	416.0	363.3	316.9	287.4	287.4	291.6
55°	1608.5	1517.8	706.9	472.2	429.4	521.4	464.5	426.5	412.5	472.2	488.4
57.5°	1952.8	1837.6	749.1	541.8	526.3	645.1	576.9	544.6	570.6	747.7	802.5
60°	2266.9	2076.5	782.1	607.8	609.2	743.5	692.9	690.8	730.8	957.1	1026.7
62.5°	2448.2	2188.9	780.0	645.8	657.7	804.6	762.4	773.7	796.2	992.2	1044.9
65°	2572.6	2242.3	763.8	662.7	678.1	826.4	773.7	754.7	740.0	878.4	929.0
67.5°	2486.9	2117.3	727.3	638.1	665.5	794.8	725.2	671.1	642.3	712.5	747.0
70°	2082.8	1765.9	643.7	574.1	599.4	669.7	602.9	549.5	519.3	557.2	573.4
72.5°	1577.6	1343.6	580.4	536.9	525.6	553.7	490.5	430.8	412.5	437.1	440.6
75°	1256.4	1051.3	534.1	485.6	441.3	468.7	391.4	319.0	308.5	308.5	302.9
77.5°	942.3	779.3	455.4	378.1	325.4	370.3	291.6	222.1	208.0	205.2	197.5
80°	631.7	530.5	306.4	250.9	234.0	274.8	207.3	163.0	163.7	163.0	153.9
82.5°	441.3	409.7	248.8	218.5	200.3	216.4	187.6	156.7	155.3	156.7	146.9
85°	391.4	375.2	241.0	225.6	206.6	208.7	179.9	148.3	149.0	151.8	143.4
87.5°	375.9	357.7	241.7	217.8	201.7	193.2	163.0	137.0	141.2	144.1	137.0
90°	338.7	320.4	222.1	196.8	179.9	167.9	144.1	130.0	135.6	138.4	132.1
92.5°	293.7	274.8	184.8	173.6	169.4	169.4	151.1	138.4	141.9	143.4	137.7
95°	253.0	234.7	164.4	152.5	149.0	149.7	134.9	124.4	126.5	125.8	121.6
97.5°	204.5	193.2	143.4	135.6	132.1	130.7	120.9	113.1	117.4	120.2	116.6
100°	180.6	175.0	138.4	132.8	127.9	127.2	118.8	113.8	117.4	121.6	118.8
102.5°	168.6	164.4	132.1	124.4	120.9	119.5	113.8	108.2	111.7	115.9	113.8
105°	158.8	152.5	126.5	119.5	114.5	113.8	108.2	101.2	103.3	108.9	107.5
107.5°	150.4	146.2	125.8	118.1	111.7	111.7	105.4	99.8	100.5	102.6	102.6
110°	157.4	152.5	130.7	125.1	116.6	113.8	112.4	108.2	104.7	103.3	103.3



REPORT NUMBER: P856106
 CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	194.6	185.5	163.7	157.4	143.4	133.5	124.4	115.9	110.3	108.2	106.8
115°	229.8	219.2	193.2	177.1	158.1	143.4	130.7	121.6	113.1	110.3	113.1
117.5°	236.8	208.7	168.6	155.3	144.1	134.9	127.9	120.9	114.5	116.6	114.5
120°	234.7	200.3	170.1	189.0	170.1	149.0	132.1	132.1	130.0	119.5	121.6
122.5°	361.2	337.3	300.8	289.5	236.1	215.7	184.1	157.4	131.4	116.6	109.6
125°	494.7	471.5	415.3	372.4	319.0	262.8	201.7	155.3	121.6	107.5	109.6
127.5°	497.5	476.4	423.0	350.7	280.4	224.9	167.9	137.7	118.8	109.6	108.2
130°	387.9	367.5	321.8	266.3	222.1	185.5	151.1	124.4	107.5	100.5	98.4
132.5°	335.9	317.6	275.5	224.9	192.5	163.7	134.9	108.2	97.0	92.1	92.8
135°	282.5	260.7	220.7	193.2	172.9	146.9	120.9	99.1	93.5	92.1	91.4
137.5°	239.6	224.2	196.1	175.0	155.3	132.1	106.1	92.8	90.6	92.1	90.6
140°	203.8	191.1	175.7	157.4	133.5	111.7	94.9	88.5	92.1	92.8	92.1
142.5°	175.7	163.0	146.9	122.3	111.0	101.2	97.0	92.1	92.1	91.4	90.6
145°	146.9	130.0	122.3	125.8	118.8	108.9	101.2	91.4	87.8	87.8	88.5
147.5°	168.6	151.1	141.2	133.5	120.2	106.1	94.2	85.0	83.6	86.4	85.7
150°	145.5	129.3	122.3	111.7	103.3	92.8	85.0	81.5	82.2	85.7	85.7
152.5°	115.9	104.7	100.5	97.7	93.5	87.1	82.9	81.5	82.9	84.3	84.3
155°	108.9	102.6	97.7	95.6	90.6	85.7	82.2	81.5	82.9	84.3	85.7
157.5°	101.9	99.8	93.5	91.4	87.1	85.0	82.9	82.9	83.6	85.0	86.4
160°	97.0	96.3	90.6	89.9	87.1	85.7	85.7	86.4	87.1	87.1	87.1
162.5°	94.2	94.2	92.1	90.6	89.9	89.2	91.4	92.1	91.4	91.4	91.4
165°	94.9	95.6	93.5	92.1	91.4	92.8	96.3	96.3	94.9	94.2	93.5
167.5°	95.6	96.3	94.9	94.2	94.2	95.6	97.0	96.3	95.6	94.9	94.2
170°	94.9	95.6	95.6	96.3	96.3	96.3	97.7	97.7	96.3	95.6	95.6
172.5°	96.3	97.0	97.7	98.4	99.1	98.4	99.1	99.1	99.1	99.1	99.8
175°	100.5	100.5	101.2	101.2	100.5	101.2	101.2	101.2	101.9	103.3	103.3
177.5°	102.6	102.6	101.9	101.9	101.2	101.9	101.9	101.9	101.9	102.6	101.9
180°	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

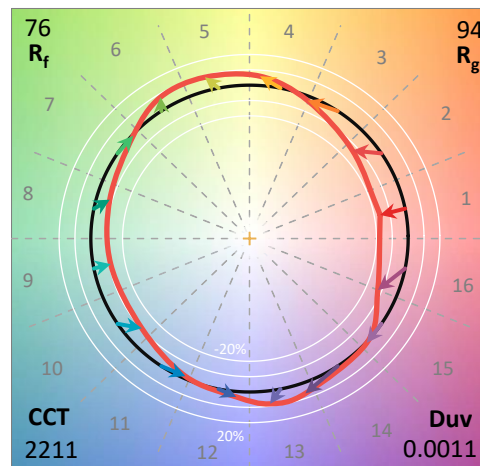
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

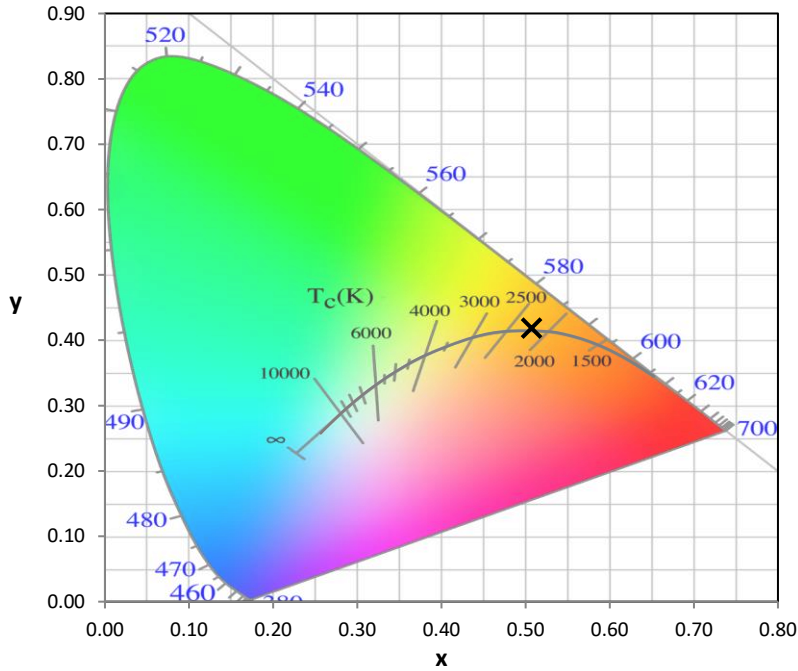
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

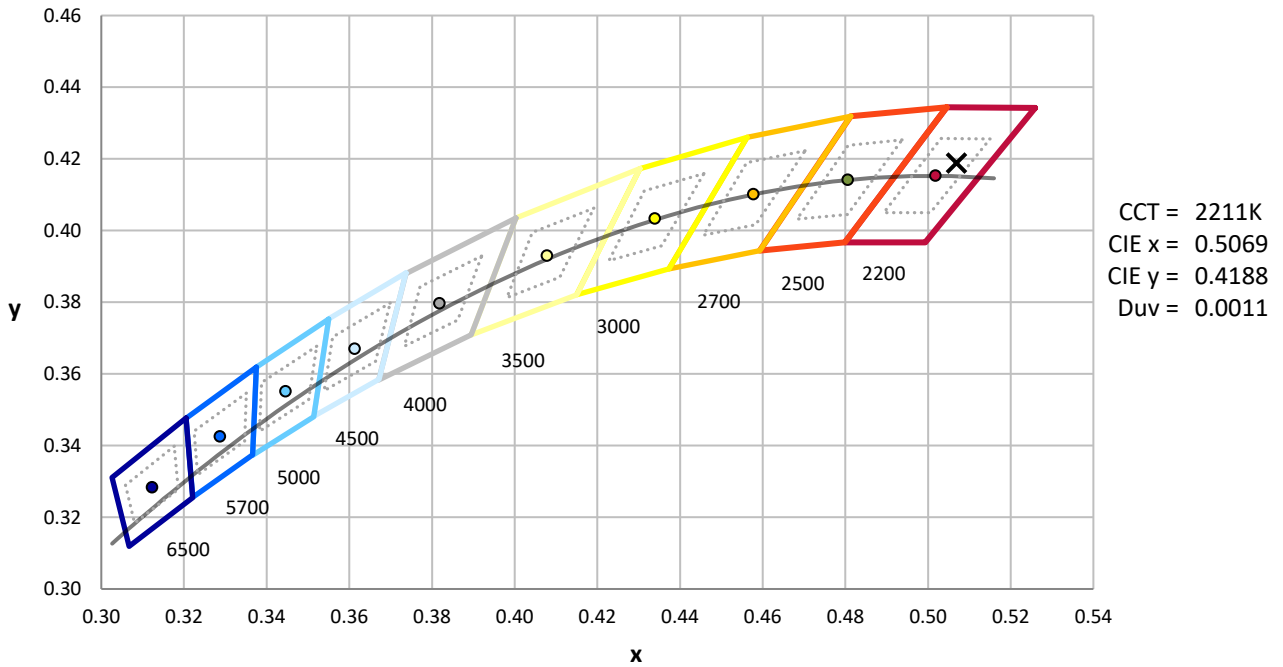
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-2

CIE 1931 Chromaticity Diagram



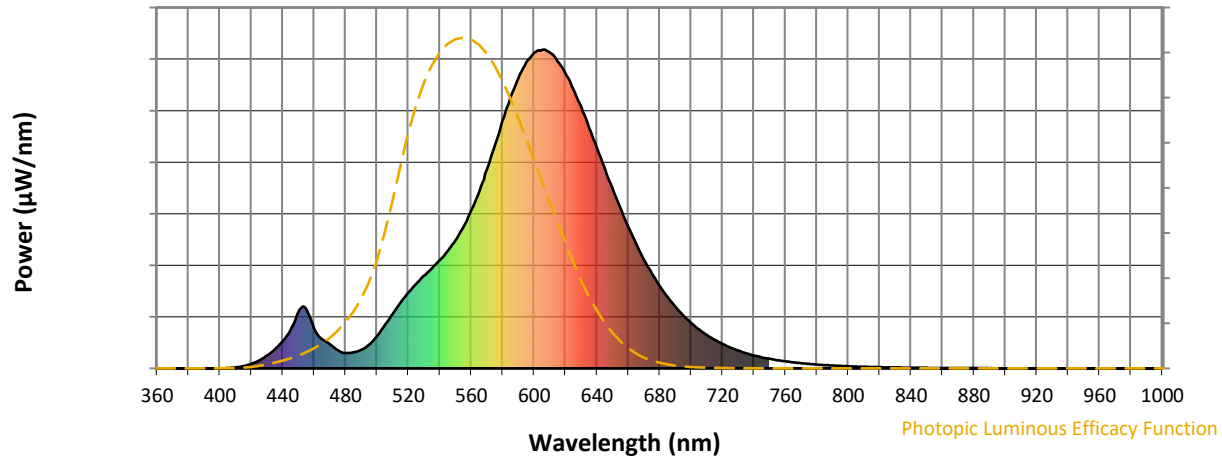
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

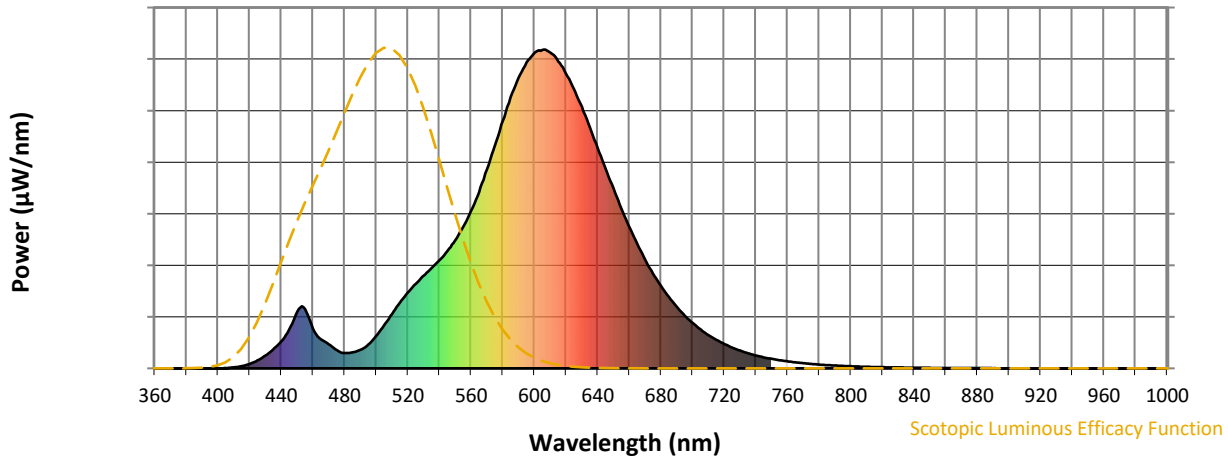


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



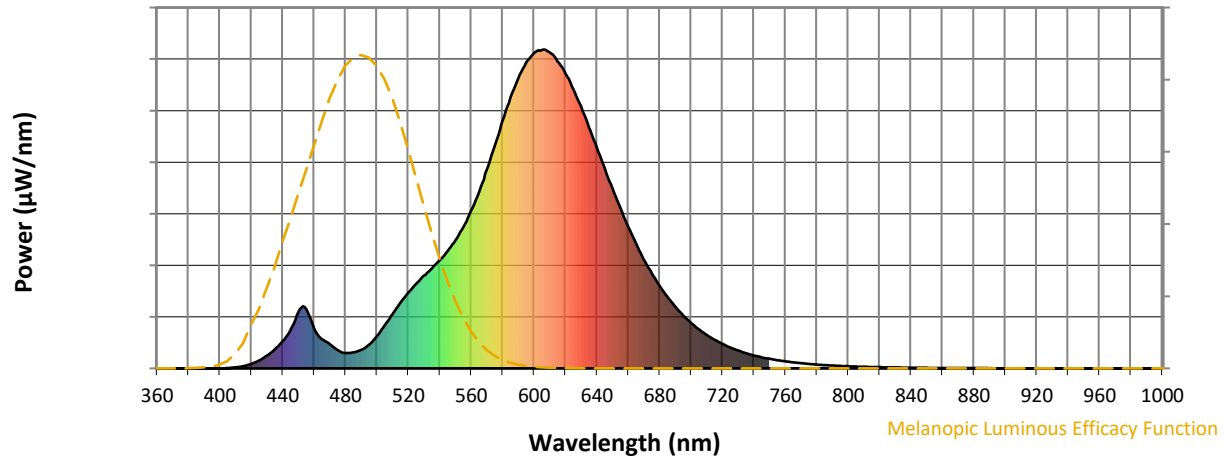
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

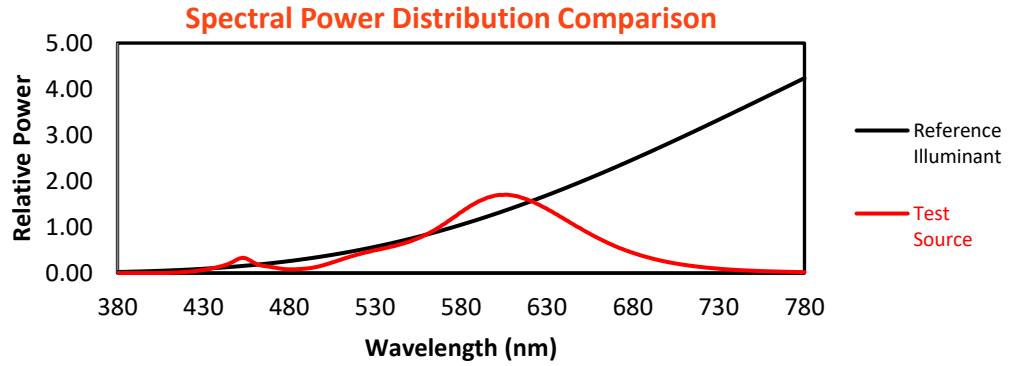
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

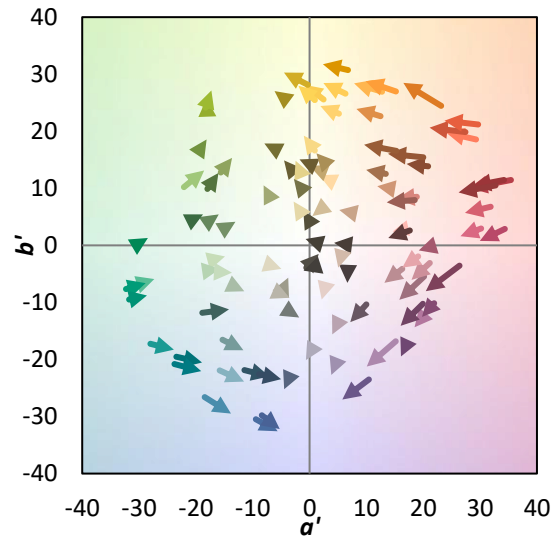
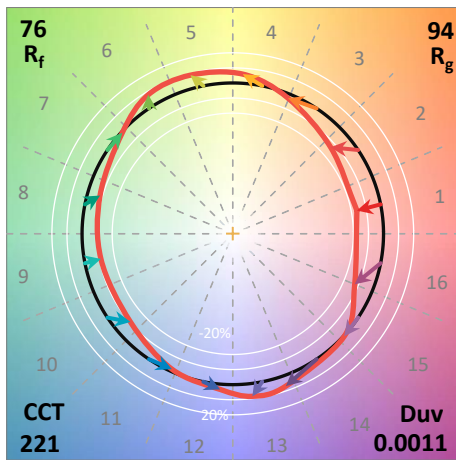
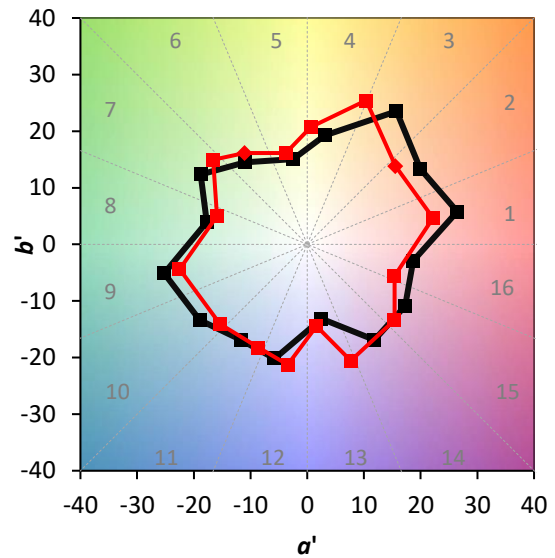
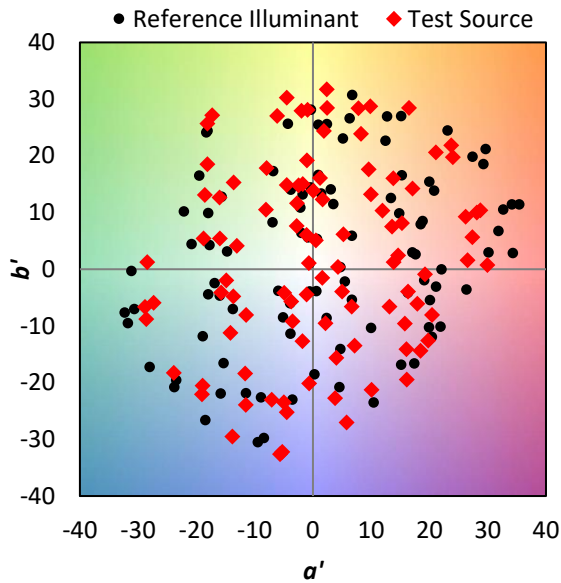
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

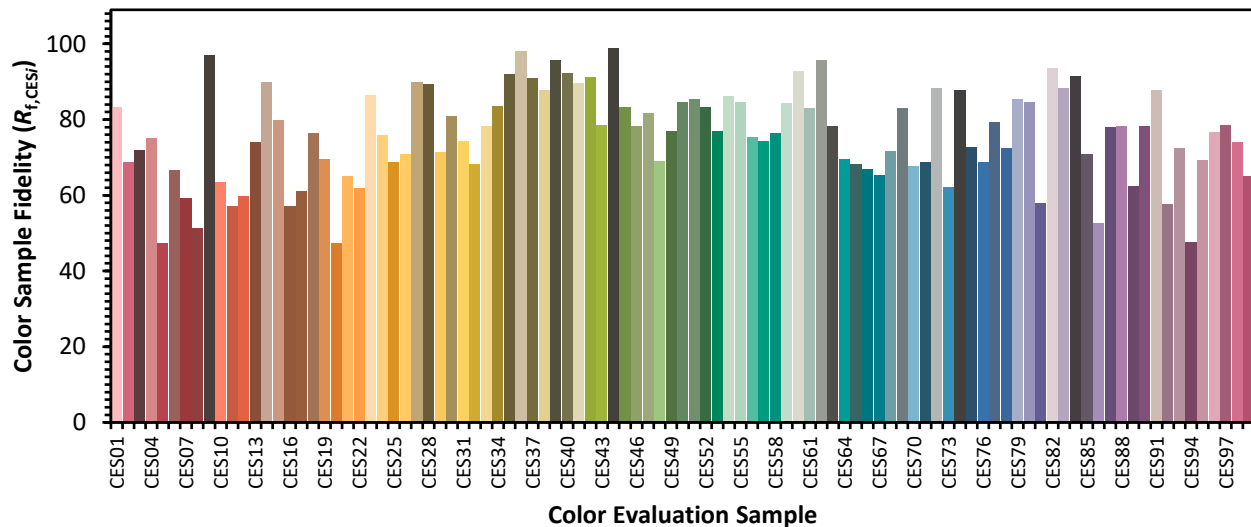


REPORT NUMBER: SP1-2406-133-2

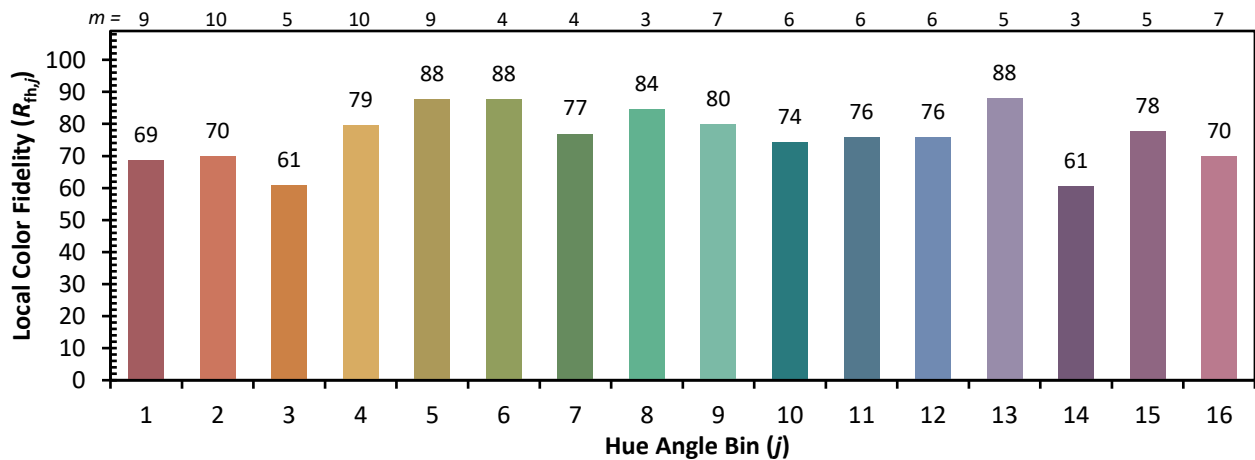
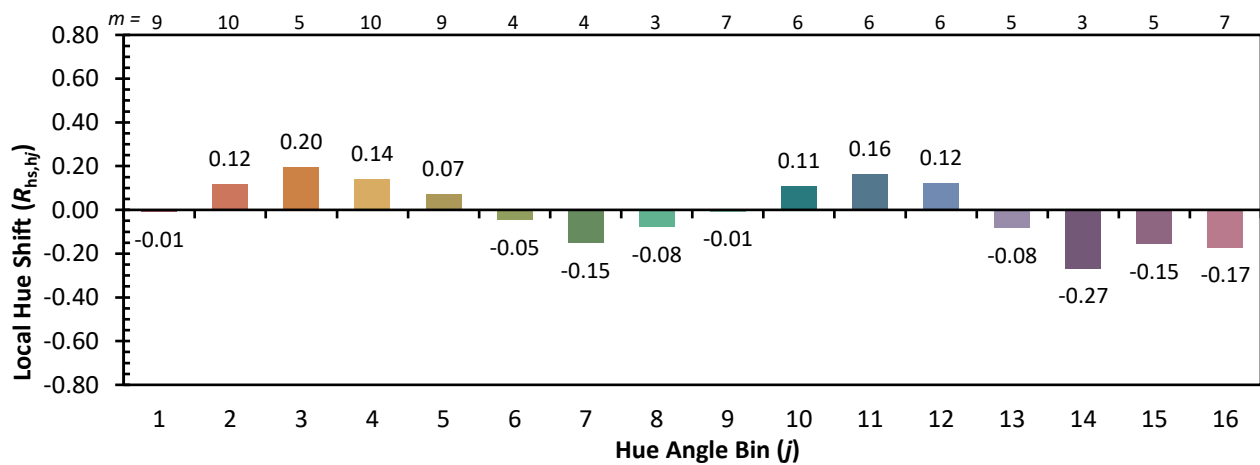
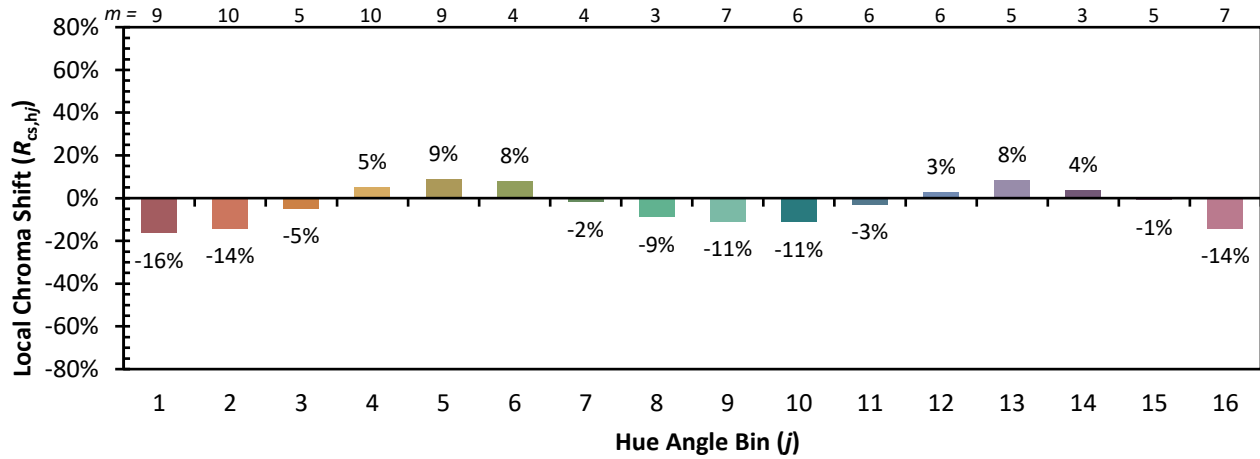
TM-30-18

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

CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



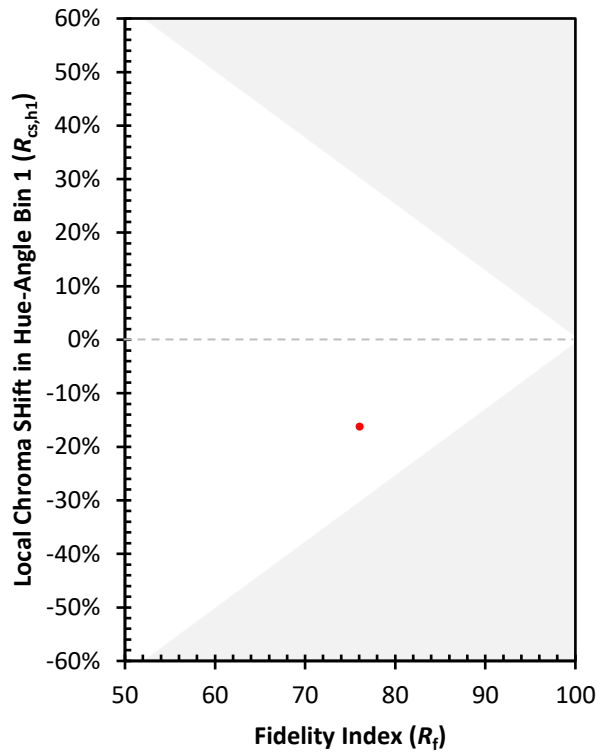
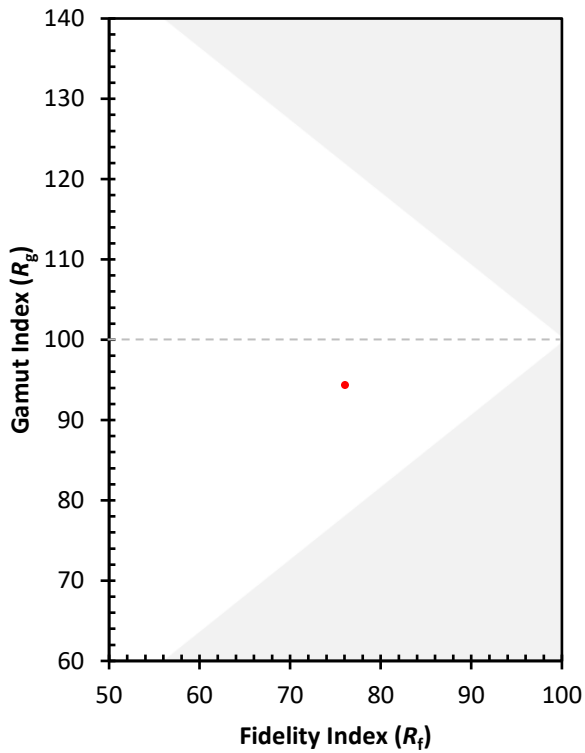
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)