

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: P856124

Luminaire Tested: **FFX-CLB-50-730-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856124
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-730-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

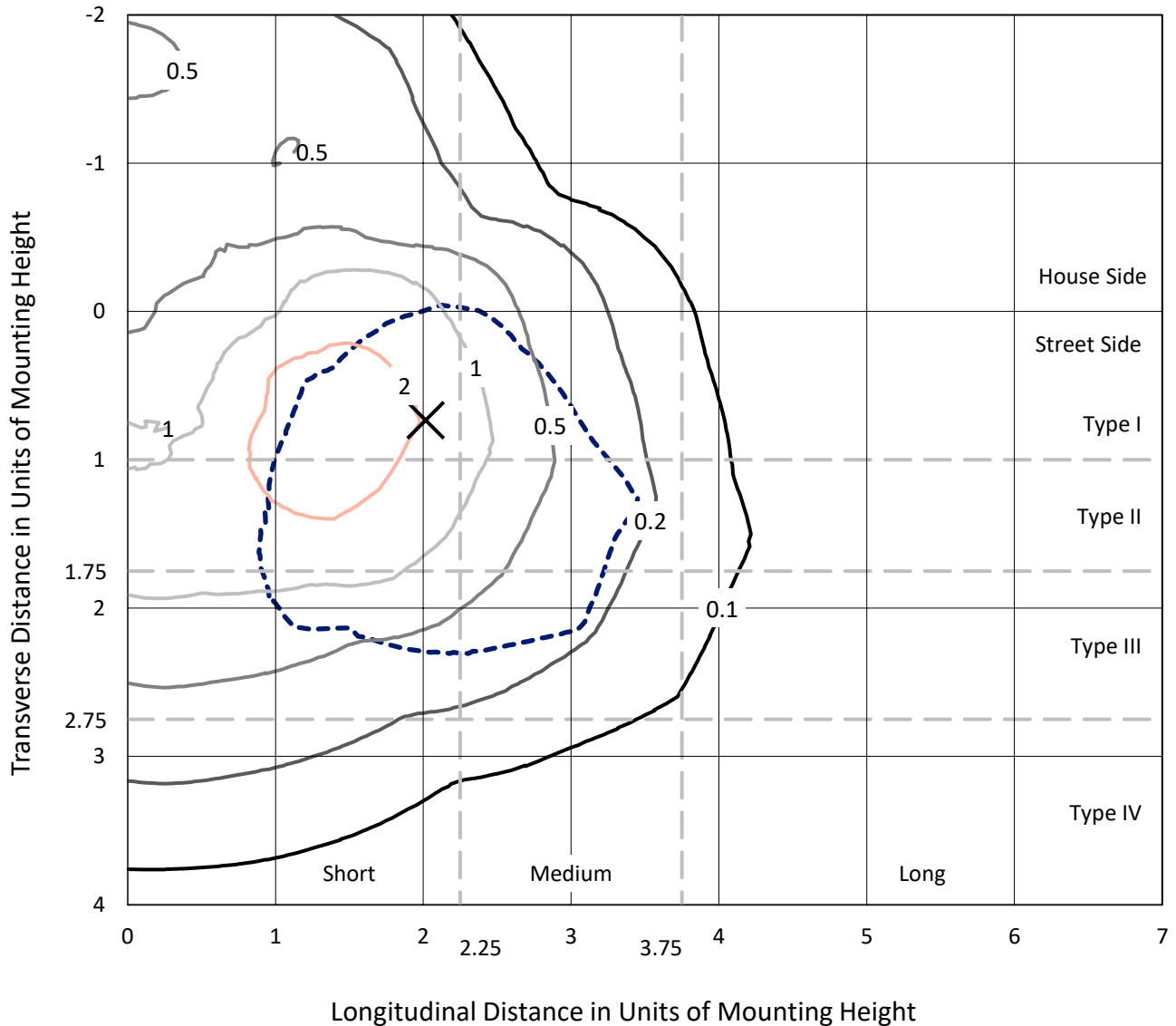
Lumens per Lamp: N/A
Luminaire Lumens: 7895.8 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

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: P856124
 CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

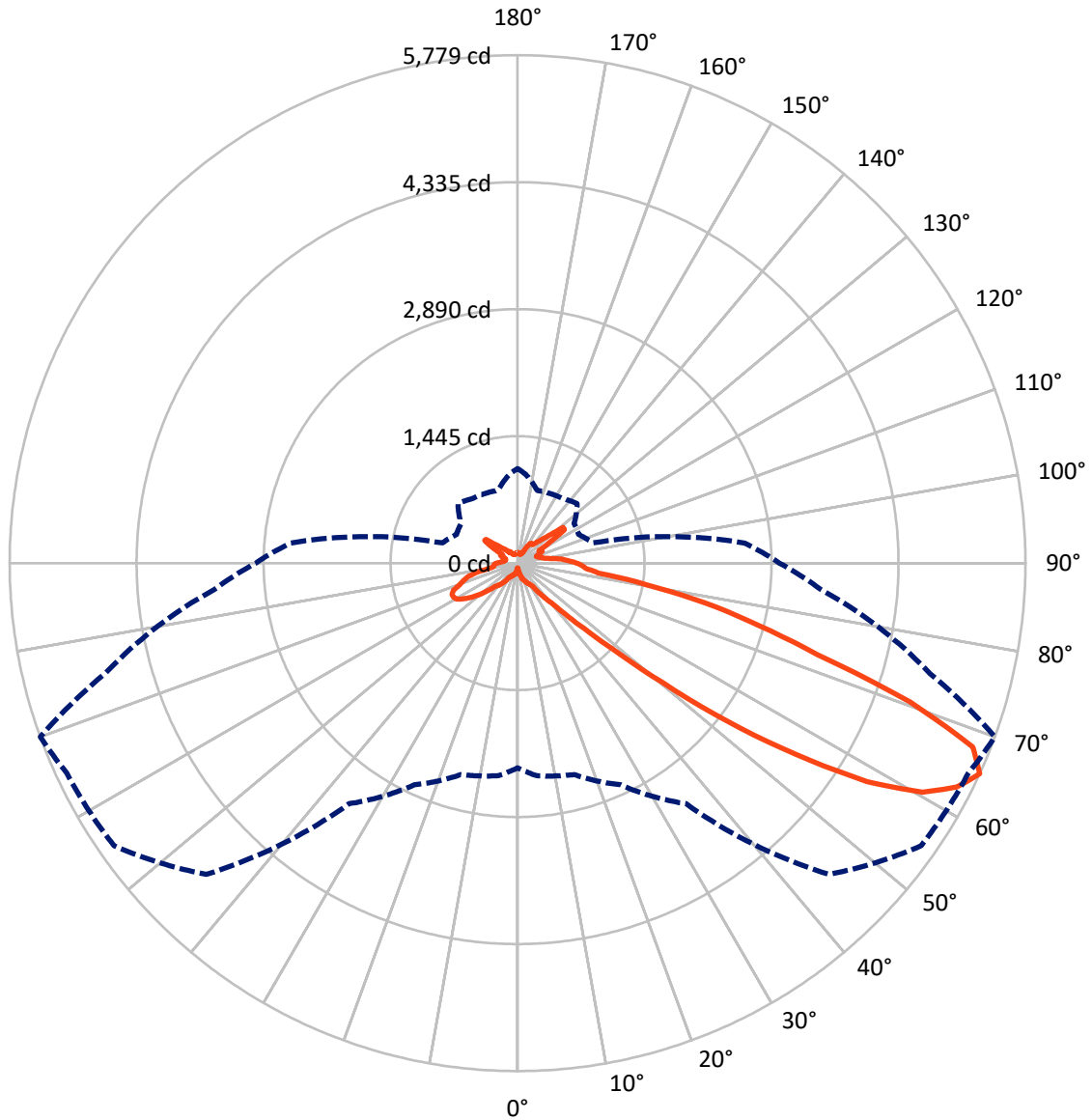
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P856124
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856124

CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

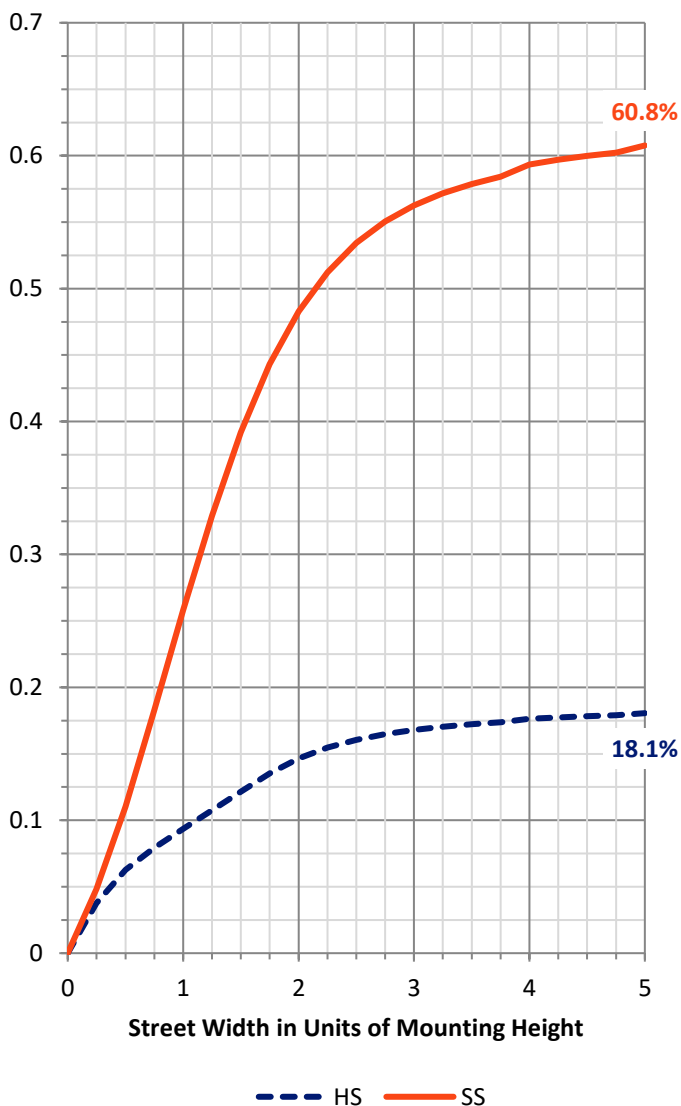
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1487.3	530.6	2017.9
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	4959.7	918.2	5877.9
	% Fixture	62.8	11.6	74.4
Total	Lumens	6447.0	1448.8	7895.8
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	41.4	0.5
20°-30°	87.8	1.1
30°-40°	178.8	2.3
40°-50°	454.7	5.8
50°-60°	1461.2	18.5
60°-70°	2384.7	30.2
70°-80°	1357.6	17.2
80°-90°	472.4	6.0
90°-100°	294.0	3.7
100°-110°	187.2	2.4
110°-120°	206.0	2.6
120°-130°	348.3	4.4
130°-140°	205.3	2.6
140°-150°	110.5	1.4
150°-160°	55.9	0.7
160°-170°	30.6	0.4
170°-180°	11.0	0.1
0°-90°	6447.0	81.7
0°-180°	7895.8	100.0

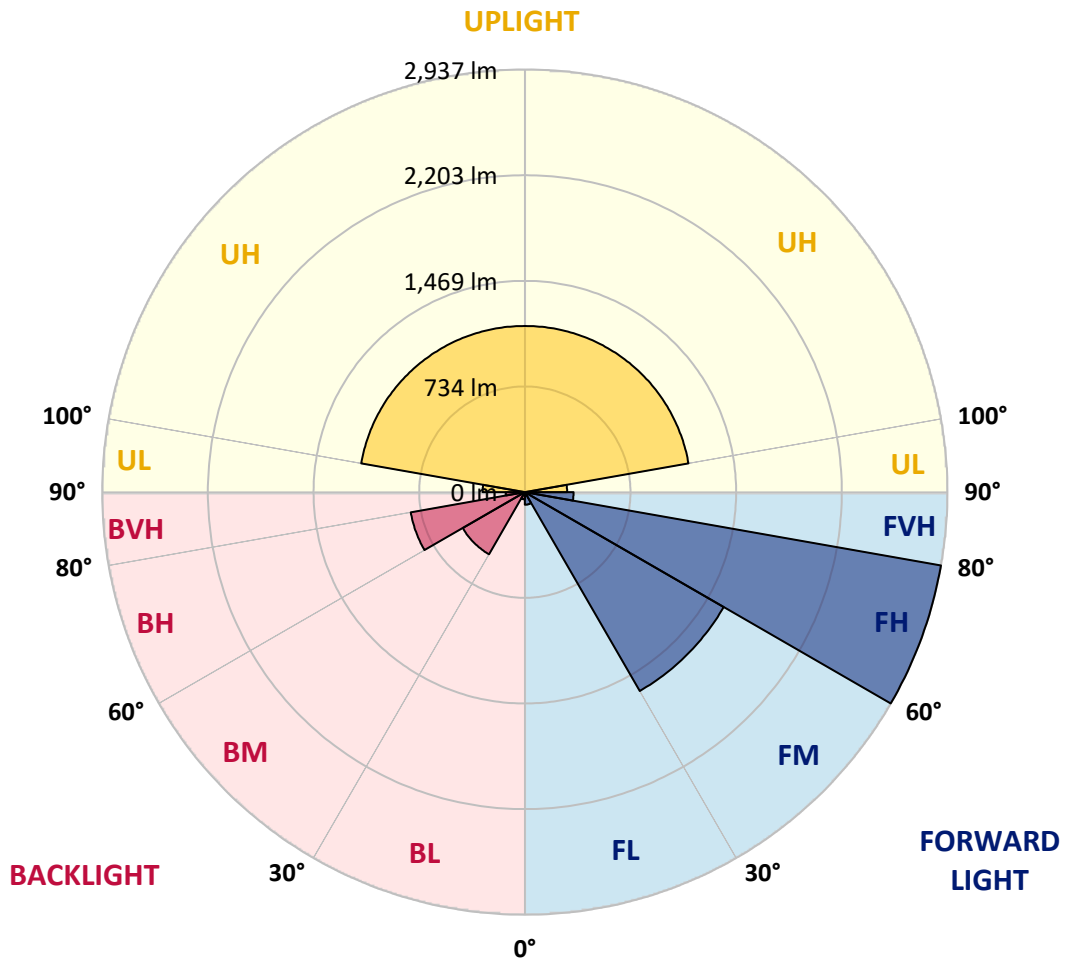


REPORT NUMBER: P856124
 CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	87.6	1.1			
FM (30°-60°)	1596.2	20.2			
FH (60°-80°)	2937.1	37.2			G2/5000
FVH (80°-90°)	338.7	4.3			G3/500
BL (0°-30°)	50.0	0.6	B0/110		
BM (30°-60°)	498.5	6.3	B1/1000		
BH (60°-80°)	805.2	10.2	B2/1000		G2/1000
BVH (80°-90°)	133.7	1.7			G2/225
UL (90°-100°)	294.0	3.7		U3/500	
UH (100°-180°)	1154.8	14.6		U5	

BUG Rating: B2-U5-G3
 Type III Short





REPORT NUMBER: P856124

CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	62.7	62.7	64.3	64.3	64.3	62.7	61.8	60.2	60.2	60.2	59.4
5°	81.4	80.6	81.4	83.8	84.6	82.2	80.6	78.1	78.1	77.3	77.3
7.5°	109.8	109.0	107.4	105.0	105.8	108.2	111.5	105.0	103.3	99.3	97.6
10°	137.5	135.9	137.5	133.4	129.4	123.7	126.9	125.3	122.0	118.0	114.7
12.5°	167.6	168.4	171.7	168.4	161.9	153.0	151.3	147.3	144.0	143.2	138.3
15°	198.5	199.3	202.6	201.8	195.3	183.1	178.2	174.1	172.5	167.6	157.0
17.5°	214.8	215.6	216.4	217.2	213.2	203.4	196.1	188.8	186.3	184.7	171.7
20°	222.9	221.3	222.9	226.2	229.5	221.3	214.0	209.9	207.5	201.8	184.7
22.5°	236.0	234.3	233.5	236.0	245.7	240.0	232.7	228.6	226.2	218.9	192.8
25°	249.8	248.2	250.6	249.0	261.2	258.7	251.4	247.4	244.1	235.1	205.0
27.5°	265.3	263.6	266.1	264.4	274.2	275.8	270.9	267.7	262.8	249.8	214.0
30°	278.3	276.6	279.1	278.3	288.0	293.7	291.3	290.5	283.2	267.7	229.5
32.5°	288.8	288.0	293.7	296.2	298.6	311.6	310.0	317.3	309.2	290.5	252.2
35°	313.3	315.7	331.2	347.4	349.9	375.9	379.2	406.0	397.9	373.5	327.1
37.5°	484.1	475.2	459.7	444.3	438.6	489.0	496.3	523.2	502.8	457.3	382.4
40°	515.9	501.2	483.3	471.1	472.7	563.1	547.6	649.3	591.5	523.2	467.0
42.5°	489.8	484.9	547.6	576.9	555.7	687.5	661.5	855.2	789.3	621.6	563.9
45°	614.3	604.6	626.5	655.8	662.3	904.8	886.9	1089.5	1062.6	777.0	723.3
47.5°	703.0	694.1	723.3	822.6	908.0	1170.0	1267.7	1559.8	1465.4	1104.1	979.6
50°	969.1	967.4	1057.8	1175.7	1325.5	1702.2	1961.7	2289.6	2137.5	1563.0	1343.4
52.5°	1231.9	1235.1	1345.8	1554.9	1710.3	2375.9	2744.5	2973.9	2994.3	2038.2	1741.2
55°	1430.4	1450.8	1584.2	1934.9	2170.0	2975.6	3454.0	3632.2	3835.6	2754.2	2155.4
57.5°	1817.7	1848.6	1975.6	2318.9	2647.7	3722.5	4368.5	4388.1	4691.6	3548.4	2599.6
60°	2156.2	2228.6	2273.4	2585.0	3033.3	4436.1	5048.0	5008.9	5293.7	4206.6	3050.4
62.5°	2261.2	2344.2	2386.5	2718.4	3338.5	4836.4	5365.3	5414.1	5610.2	4668.8	3326.2
65°	2329.5	2427.2	2490.6	2784.3	3341.7	5007.3	5606.1	5658.2	5779.4	4862.4	3463.8
67.5°	2294.5	2419.0	2500.4	2761.6	3166.0	4875.5	5558.1	5458.0	5586.6	4700.5	3310.0
70°	2003.2	2133.4	2215.6	2410.1	2646.8	4099.2	4791.7	4624.0	4737.1	3923.5	2721.7
72.5°	1632.2	1696.5	1746.9	1853.5	1995.1	3023.6	3641.1	3502.0	3569.5	2952.0	2039.8
75°	1340.9	1360.4	1423.1	1484.1	1507.7	2211.5	2884.4	2757.5	2836.4	2247.3	1623.3
77.5°	974.0	985.3	1074.8	1084.6	1078.9	1517.5	2273.4	2161.9	2187.1	1670.4	1211.5
80°	565.5	587.5	704.6	698.9	689.2	934.9	1600.5	1555.7	1477.6	1134.2	838.9
82.5°	398.7	420.7	474.4	486.6	480.1	671.3	1039.0	1009.8	925.1	789.3	580.1
85°	419.8	422.3	424.7	430.4	419.8	598.9	795.8	781.1	781.9	652.6	478.4
87.5°	414.2	423.9	428.0	430.4	419.8	568.7	739.6	720.9	729.9	620.0	464.6
90°	363.7	381.6	383.2	387.3	381.6	507.7	663.9	646.0	657.4	559.0	423.1
92.5°	297.0	306.8	318.1	333.6	327.1	434.5	564.7	551.7	565.5	484.1	371.8
95°	281.5	292.1	299.4	310.0	300.2	396.3	510.2	484.1	495.5	423.9	320.6
97.5°	232.7	241.7	248.2	252.2	244.9	312.4	391.4	373.5	372.7	327.9	256.3
100°	198.5	204.2	209.9	214.0	207.5	258.7	310.0	303.5	305.1	270.9	220.5
102.5°	188.8	192.0	201.0	201.8	194.5	236.0	279.1	276.6	279.9	250.6	206.7
105°	184.7	187.1	194.5	192.0	185.5	220.5	257.1	258.7	258.7	233.5	193.7
107.5°	172.5	176.6	184.7	180.6	177.4	203.4	236.8	231.1	232.7	217.2	183.9
110°	170.9	174.1	182.3	179.0	176.6	198.5	227.8	226.2	228.6	214.8	188.8



REPORT NUMBER: P856124
 CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	212.4	209.1	215.6	209.1	213.2	231.9	262.8	259.6	266.9	262.0	236.0
115°	262.0	263.6	270.1	257.1	261.2	279.9	297.0	302.7	309.2	301.9	275.0
117.5°	242.5	256.3	248.2	246.5	243.3	257.9	255.5	270.1	276.6	270.9	260.4
120°	259.6	276.6	253.0	240.8	236.0	272.6	290.5	289.7	284.8	273.4	251.4
122.5°	388.1	390.6	392.2	428.8	415.8	451.6	462.2	448.3	448.3	463.0	418.2
125°	605.4	607.8	606.2	622.5	613.5	647.7	661.5	660.7	652.6	645.2	601.3
127.5°	611.9	611.9	606.2	597.2	605.4	638.7	639.5	670.5	659.9	640.4	599.7
130°	427.2	430.4	450.8	457.3	468.7	476.0	467.9	494.7	499.6	496.3	468.7
132.5°	353.9	359.6	381.6	389.7	397.1	397.9	394.6	415.8	420.7	420.7	408.5
135°	305.9	312.4	314.9	310.8	321.4	329.5	336.0	353.1	351.5	348.2	337.7
137.5°	266.9	269.3	262.0	253.0	258.7	282.3	295.4	313.3	312.4	306.8	288.8
140°	225.4	226.2	222.1	218.1	223.8	244.1	256.3	275.8	273.4	269.3	248.2
142.5°	170.9	173.3	183.9	192.0	205.9	248.2	241.7	258.7	270.9	280.7	231.9
145°	179.8	176.6	174.9	183.9	201.8	262.8	244.1	266.1	271.8	278.3	222.1
147.5°	207.5	209.1	206.7	201.0	225.4	244.9	234.3	253.9	257.1	255.5	232.7
150°	162.7	165.2	166.0	163.5	193.7	192.8	182.3	196.9	198.5	198.5	183.1
152.5°	132.6	133.4	131.8	130.2	149.7	146.5	141.6	146.5	145.6	144.8	141.6
155°	126.1	126.1	124.5	125.3	138.3	135.1	131.8	135.1	133.4	131.0	127.7
157.5°	116.4	117.2	117.2	119.6	127.7	122.0	118.8	120.4	118.8	117.2	117.2
160°	109.8	109.8	110.7	113.9	118.8	113.1	110.7	111.5	110.7	109.0	109.8
162.5°	107.4	107.4	108.2	109.8	110.7	107.4	105.0	105.0	105.0	105.0	107.4
165°	105.8	105.8	105.8	106.6	106.6	104.1	103.3	104.1	105.0	105.8	109.0
167.5°	109.0	109.0	109.0	109.0	108.2	106.6	105.8	106.6	107.4	108.2	110.7
170°	113.9	113.1	113.1	112.3	111.5	109.8	109.0	108.2	108.2	109.0	109.8
172.5°	117.2	117.2	116.4	116.4	115.5	113.9	112.3	111.5	111.5	111.5	111.5
175°	121.2	121.2	121.2	121.2	120.4	118.8	118.0	116.4	116.4	116.4	116.4
177.5°	126.1	126.1	126.1	126.1	124.5	122.9	121.2	119.6	119.6	119.6	118.8
180°	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4



REPORT NUMBER: P856124

CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	58.6	57.8	55.3	54.5	53.7	52.1	50.4	49.6	48.8	48.8	49.6
5°	78.1	77.3	77.3	74.9	72.4	68.3	66.7	66.7	67.5	68.3	70.0
7.5°	98.5	100.1	101.7	97.6	90.3	80.6	74.9	76.5	80.6	83.8	83.8
10°	113.9	113.9	119.6	114.7	102.5	90.3	82.2	80.6	81.4	82.2	83.0
12.5°	135.9	135.9	132.6	119.6	107.4	95.2	88.7	87.1	87.1	83.8	83.0
15°	152.2	147.3	135.9	123.7	113.1	100.9	93.6	91.1	88.7	86.2	85.4
17.5°	161.9	153.0	137.5	126.1	115.5	105.8	98.5	93.6	91.1	91.9	91.9
20°	173.3	163.5	149.7	137.5	124.5	111.5	102.5	95.2	92.8	93.6	92.8
22.5°	182.3	172.5	158.7	144.8	131.0	117.2	106.6	97.6	94.4	95.2	95.2
25°	192.8	184.7	170.1	153.8	136.7	123.7	113.1	102.5	97.6	96.8	96.8
27.5°	203.4	197.7	182.3	162.7	144.8	129.4	118.8	106.6	100.9	98.5	98.5
30°	217.2	210.7	195.3	171.7	152.2	137.5	126.1	113.1	105.0	100.9	100.1
32.5°	239.2	231.9	213.2	188.0	160.3	145.6	133.4	118.8	108.2	103.3	102.5
35°	310.8	299.4	270.1	240.8	196.1	162.7	142.4	123.7	111.5	105.0	104.1
37.5°	355.6	327.9	288.8	269.3	220.5	199.3	171.7	141.6	116.4	108.2	106.6
40°	428.0	389.7	340.9	302.7	214.8	218.1	201.0	176.6	138.3	113.9	111.5
42.5°	489.0	441.0	367.0	317.3	215.6	227.8	214.8	194.5	166.0	135.1	130.2
45°	602.9	541.1	426.4	340.9	221.3	242.5	226.2	205.0	179.8	158.7	156.2
47.5°	814.5	730.7	532.9	380.0	258.7	281.5	252.2	224.6	201.8	177.4	173.3
50°	1114.7	1014.6	655.8	410.9	323.0	371.0	318.1	271.8	245.7	227.8	225.4
52.5°	1460.5	1355.6	746.1	467.9	401.1	481.7	420.7	367.0	332.8	332.8	337.7
55°	1862.5	1757.5	818.5	546.8	497.1	603.7	537.8	493.9	477.6	546.8	565.5
57.5°	2261.2	2127.7	867.4	627.3	609.4	746.9	668.0	630.6	660.7	865.7	929.2
60°	2624.9	2404.4	905.6	703.8	705.4	860.9	802.3	799.8	846.2	1108.2	1188.8
62.5°	2834.8	2534.6	903.2	747.8	761.6	931.6	882.8	895.8	921.9	1148.9	1209.9
65°	2978.8	2596.4	884.4	767.3	785.2	956.9	895.8	873.9	856.8	1017.1	1075.7
67.5°	2879.5	2451.6	842.1	738.8	770.5	920.3	839.7	777.0	743.7	825.1	864.9
70°	2411.7	2044.7	745.3	664.8	694.1	775.4	698.1	636.3	601.3	645.2	663.9
72.5°	1826.7	1555.7	672.1	621.6	608.6	641.2	567.9	498.8	477.6	506.1	510.2
75°	1454.8	1217.2	618.4	562.2	511.0	542.7	453.2	369.4	357.2	357.2	350.7
77.5°	1091.1	902.4	527.3	437.7	376.7	428.8	337.7	257.1	240.8	237.6	228.6
80°	731.5	614.3	354.8	290.5	270.9	318.1	240.0	188.8	189.6	188.8	178.2
82.5°	511.0	474.4	288.0	253.0	231.9	250.6	217.2	181.4	179.8	181.4	170.1
85°	453.2	434.5	279.1	261.2	239.2	241.7	208.3	171.7	172.5	175.8	166.0
87.5°	435.3	414.2	279.9	252.2	233.5	223.8	188.8	158.7	163.5	166.8	158.7
90°	392.2	371.0	257.1	227.8	208.3	194.5	166.8	150.5	157.0	160.3	153.0
92.5°	340.1	318.1	214.0	201.0	196.1	196.1	174.9	160.3	164.4	166.0	159.5
95°	292.9	271.8	190.4	176.6	172.5	173.3	156.2	144.0	146.5	145.6	140.8
97.5°	236.8	223.8	166.0	157.0	153.0	151.3	139.9	131.0	135.9	139.1	135.1
100°	209.1	202.6	160.3	153.8	148.1	147.3	137.5	131.8	135.9	140.8	137.5
102.5°	195.3	190.4	153.0	144.0	139.9	138.3	131.8	125.3	129.4	134.3	131.8
105°	183.9	176.6	146.5	138.3	132.6	131.8	125.3	117.2	119.6	126.1	124.5
107.5°	174.1	169.2	145.6	136.7	129.4	129.4	122.0	115.5	116.4	118.8	118.8
110°	182.3	176.6	151.3	144.8	135.1	131.8	130.2	125.3	121.2	119.6	119.6



REPORT NUMBER: P856124
 CATALOG NUMBER: FFX-CLB-50-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	225.4	214.8	189.6	182.3	166.0	154.6	144.0	134.3	127.7	125.3	123.7
115°	266.1	253.9	223.8	205.0	183.1	166.0	151.3	140.8	131.0	127.7	131.0
117.5°	274.2	241.7	195.3	179.8	166.8	156.2	148.1	139.9	132.6	135.1	132.6
120°	271.8	231.9	196.9	218.9	196.9	172.5	153.0	153.0	150.5	138.3	140.8
122.5°	418.2	390.6	348.2	335.2	273.4	249.8	213.2	182.3	152.2	135.1	126.9
125°	572.8	546.0	480.9	431.2	369.4	304.3	233.5	179.8	140.8	124.5	126.9
127.5°	576.1	551.7	489.8	406.0	324.7	260.4	194.5	159.5	137.5	126.9	125.3
130°	449.1	425.5	372.7	308.4	257.1	214.8	174.9	144.0	124.5	116.4	113.9
132.5°	388.9	367.8	319.0	260.4	222.9	189.6	156.2	125.3	112.3	106.6	107.4
135°	327.1	301.9	255.5	223.8	200.2	170.1	139.9	114.7	108.2	106.6	105.8
137.5°	277.5	259.6	227.0	202.6	179.8	153.0	122.9	107.4	105.0	106.6	105.0
140°	236.0	221.3	203.4	182.3	154.6	129.4	109.8	102.5	106.6	107.4	106.6
142.5°	203.4	188.8	170.1	141.6	128.6	117.2	112.3	106.6	106.6	105.8	105.0
145°	170.1	150.5	141.6	145.6	137.5	126.1	117.2	105.8	101.7	101.7	102.5
147.5°	195.3	174.9	163.5	154.6	139.1	122.9	109.0	98.5	96.8	100.1	99.3
150°	168.4	149.7	141.6	129.4	119.6	107.4	98.5	94.4	95.2	99.3	99.3
152.5°	134.3	121.2	116.4	113.1	108.2	100.9	96.0	94.4	96.0	97.6	97.6
155°	126.1	118.8	113.1	110.7	105.0	99.3	95.2	94.4	96.0	97.6	99.3
157.5°	118.0	115.5	108.2	105.8	100.9	98.5	96.0	96.0	96.8	98.5	100.1
160°	112.3	111.5	105.0	104.1	100.9	99.3	99.3	100.1	100.9	100.9	100.9
162.5°	109.0	109.0	106.6	105.0	104.1	103.3	105.8	106.6	105.8	105.8	105.8
165°	109.8	110.7	108.2	106.6	105.8	107.4	111.5	111.5	109.8	109.0	108.2
167.5°	110.7	111.5	109.8	109.0	109.0	110.7	112.3	111.5	110.7	109.8	109.0
170°	109.8	110.7	110.7	111.5	111.5	111.5	113.1	113.1	111.5	110.7	110.7
172.5°	111.5	112.3	113.1	113.9	114.7	113.9	114.7	114.7	114.7	114.7	115.5
175°	116.4	116.4	117.2	117.2	116.4	117.2	117.2	117.2	118.0	119.6	119.6
177.5°	118.8	118.8	118.0	118.0	117.2	118.0	118.0	118.0	118.0	118.8	118.0
180°	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4

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: SP1-2406-133-4

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.

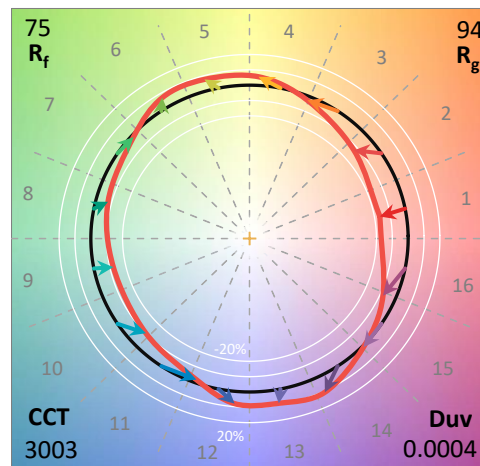
Test Information

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	R9:	-33.7
R2:	82.2	R10:	59.0
R3:	93.9	R11:	62.4
R4:	67.6	R12:	48.5
R5:	67.2	R13:	70.8
R6:	75.3	R14:	96.6
R7:	77.6	R15:	60.0
R8:	43.1		



Test Conditions

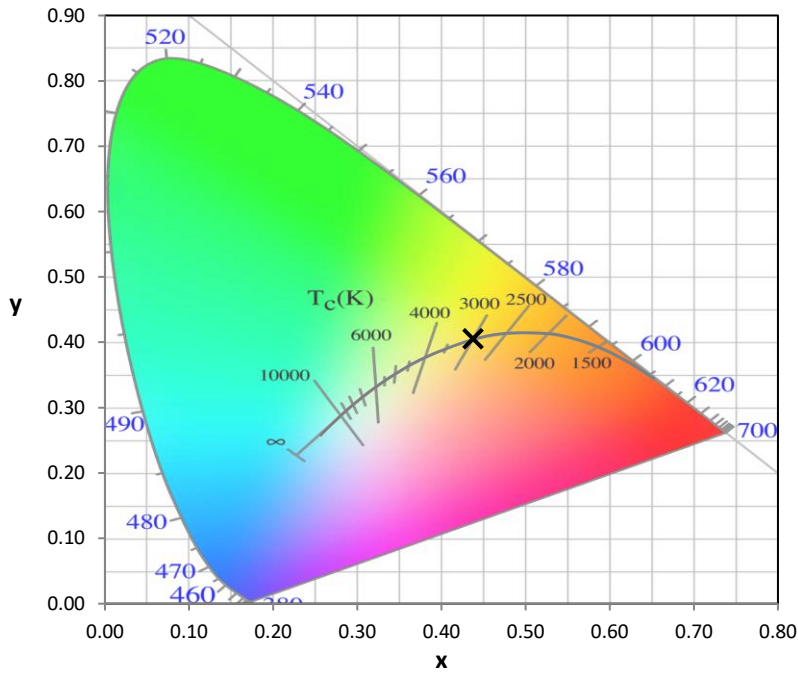
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

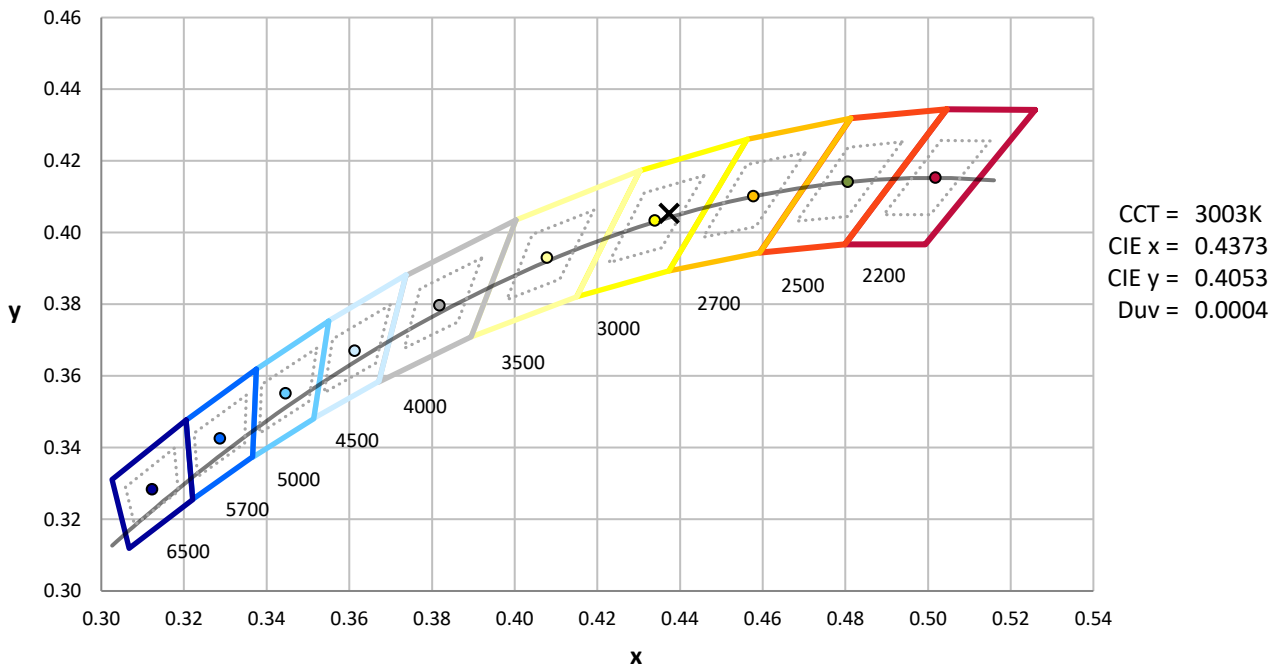
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



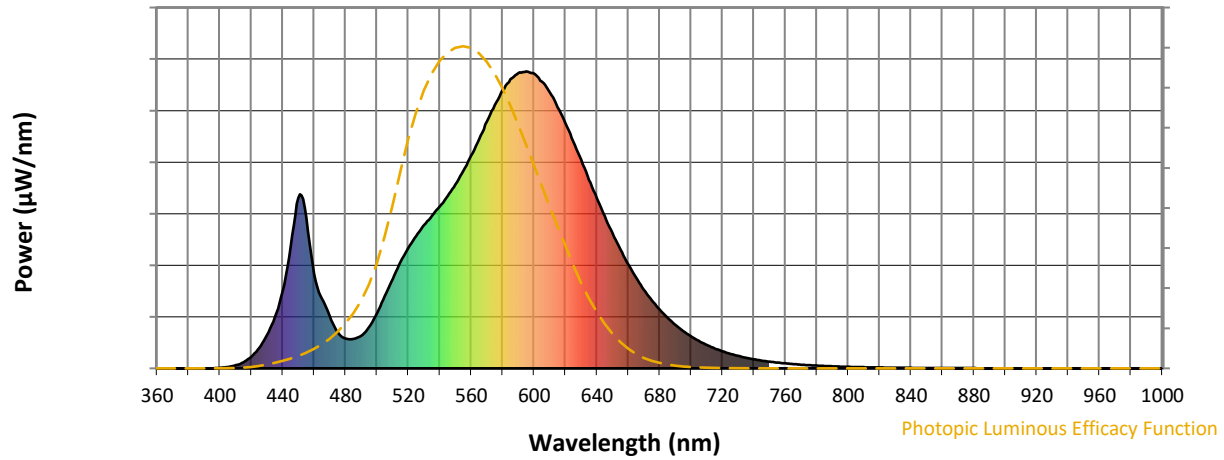
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

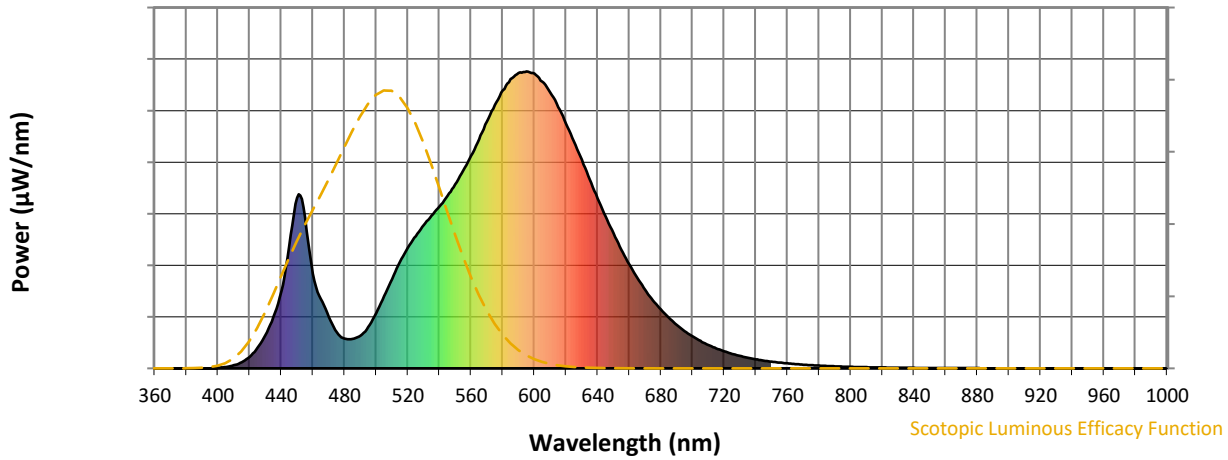


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



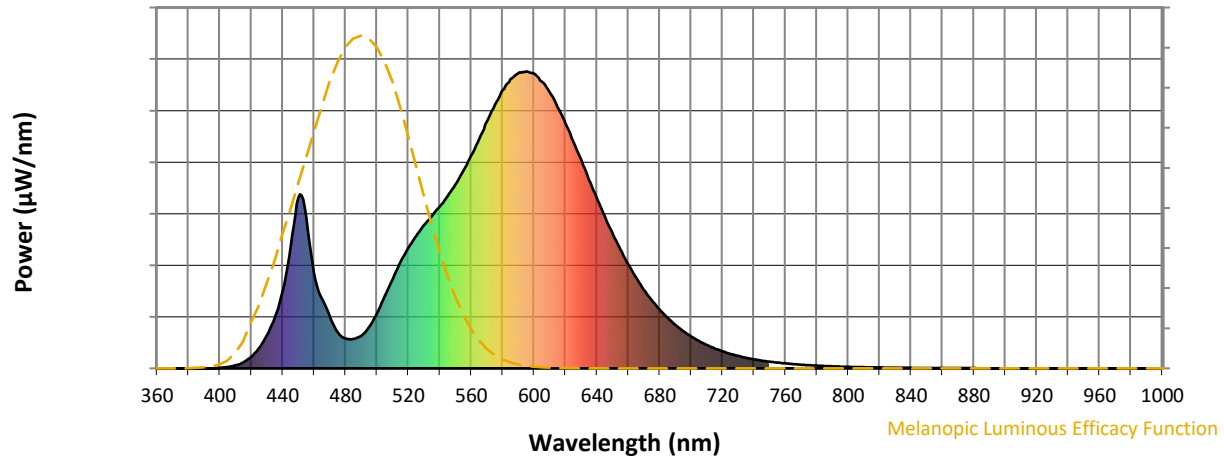
Scotopic Lumens: NR

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

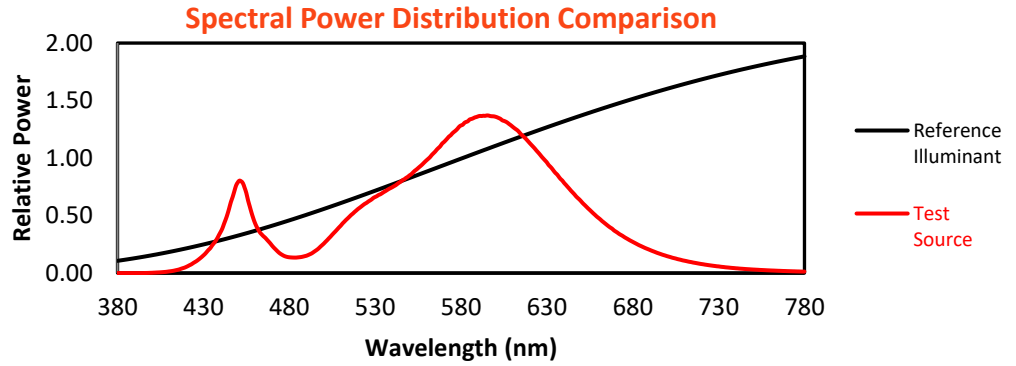
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186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

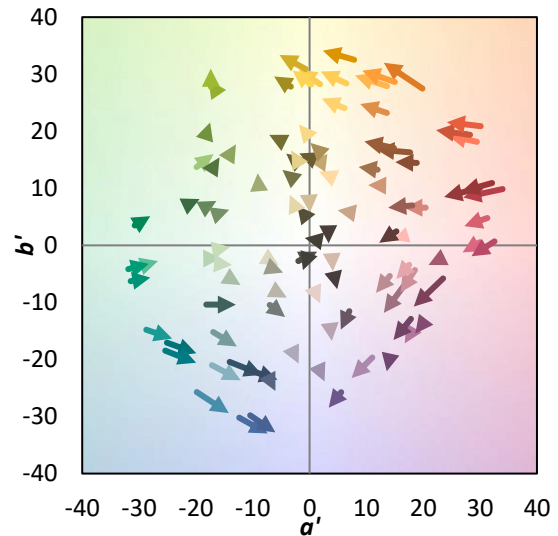
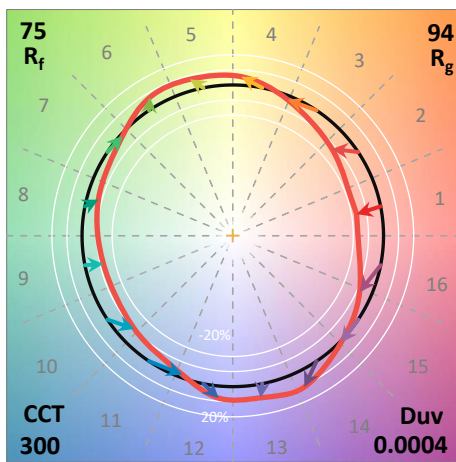
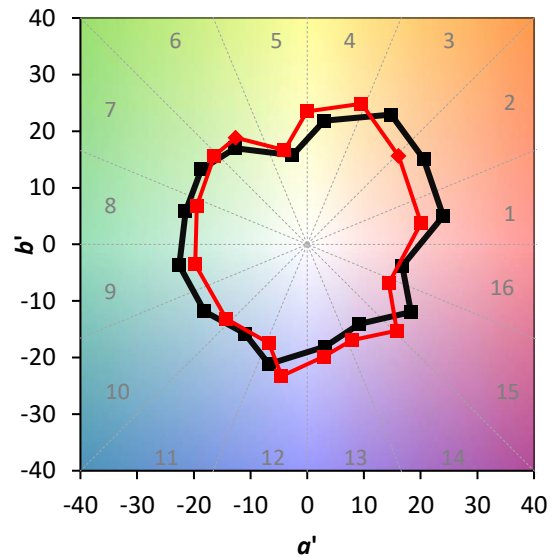
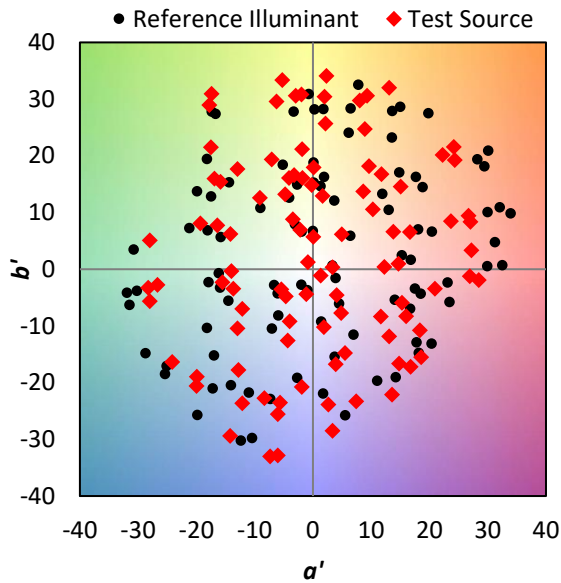
TM-30-18

Summary

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



Color Vector Graphics

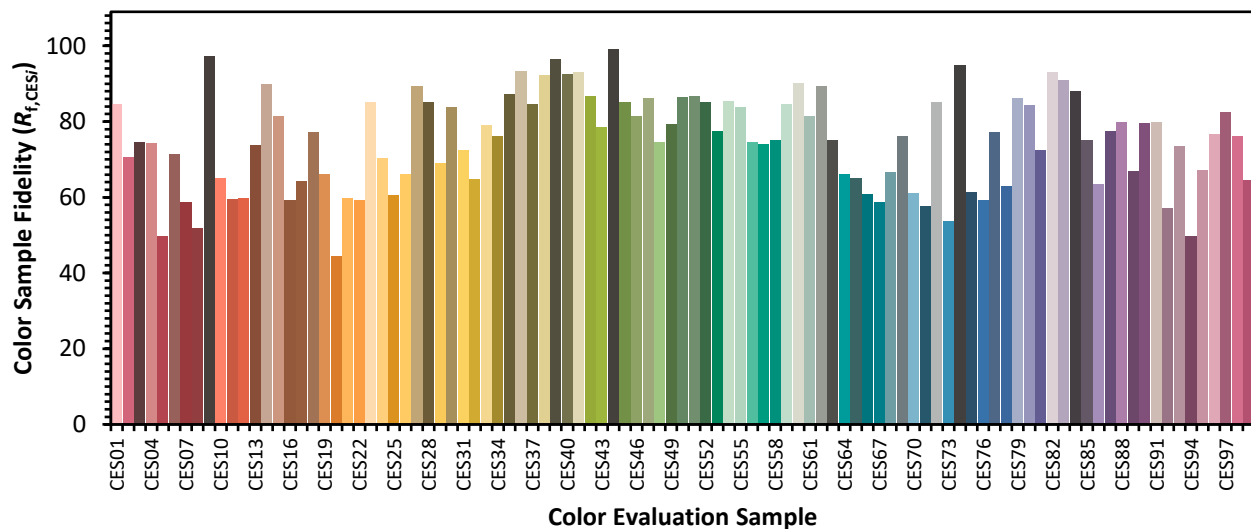


REPORT NUMBER: SP1-2406-133-4

TM-30-18

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

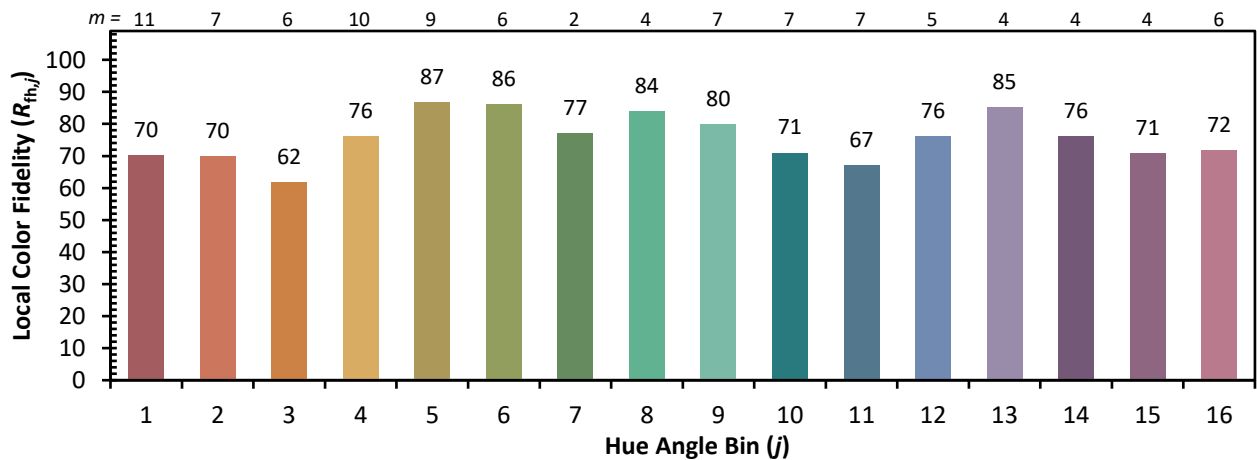
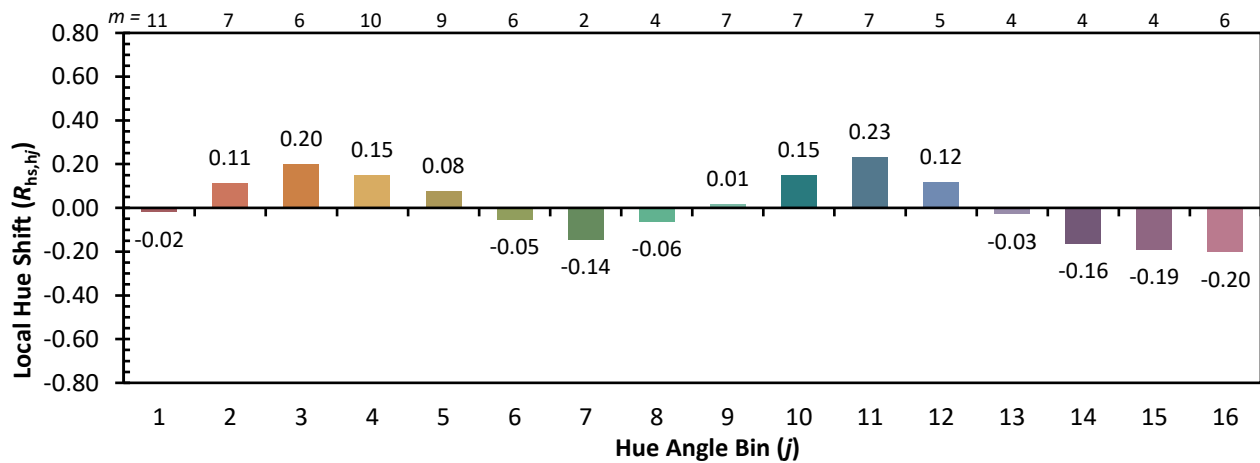
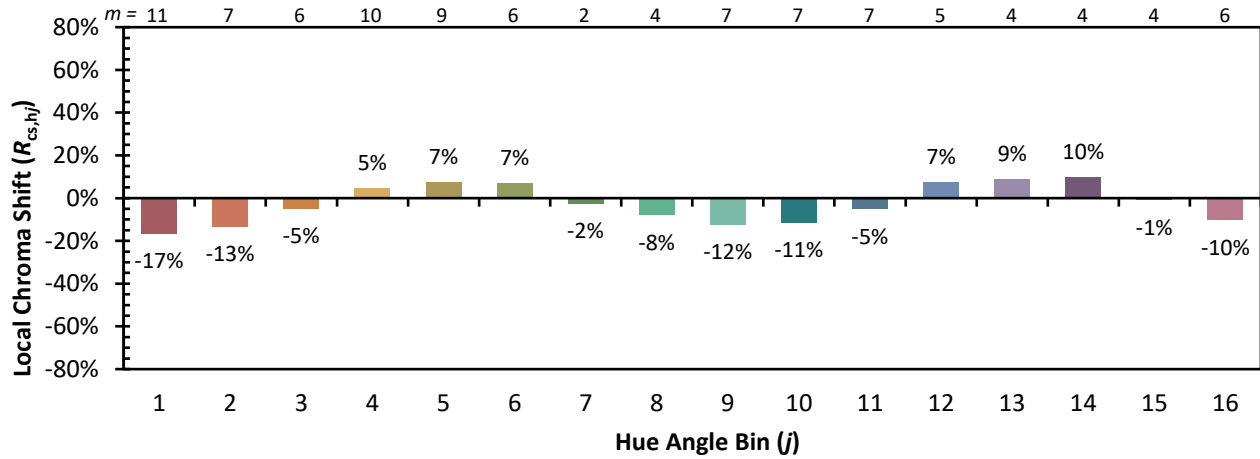
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82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

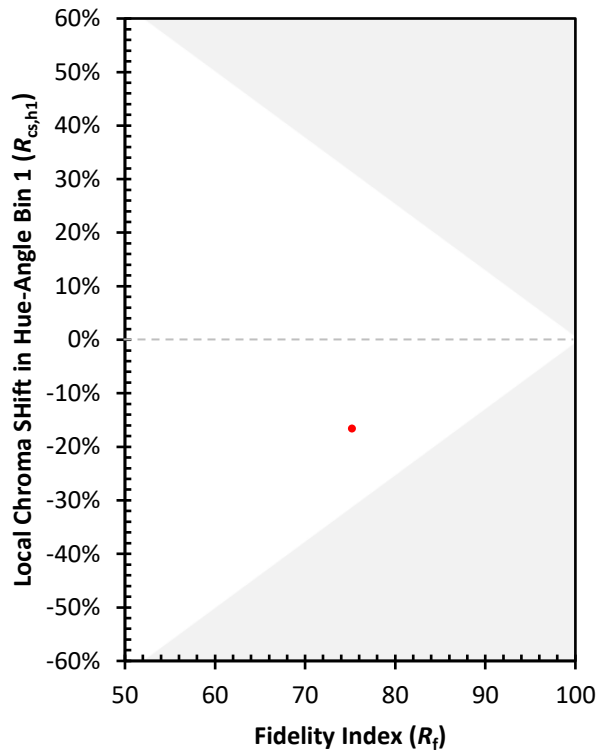
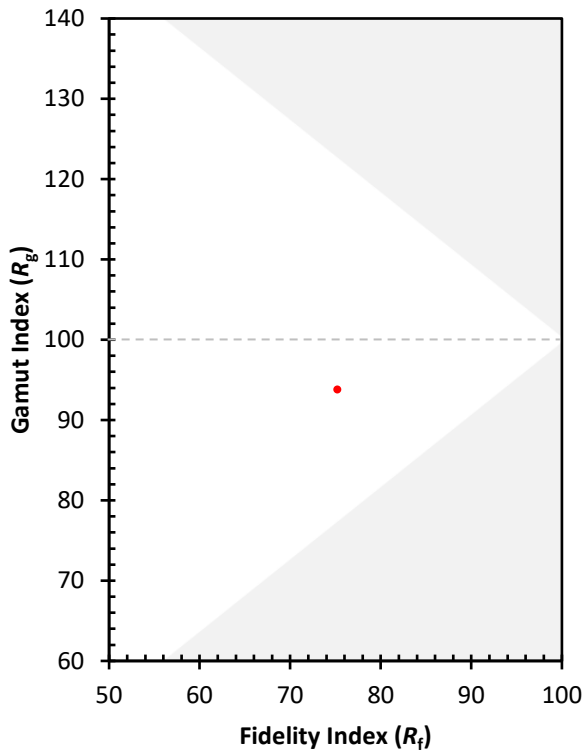
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)