

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: P856212

Luminaire Tested: **FFX-CLB-70-730-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856212
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-730-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

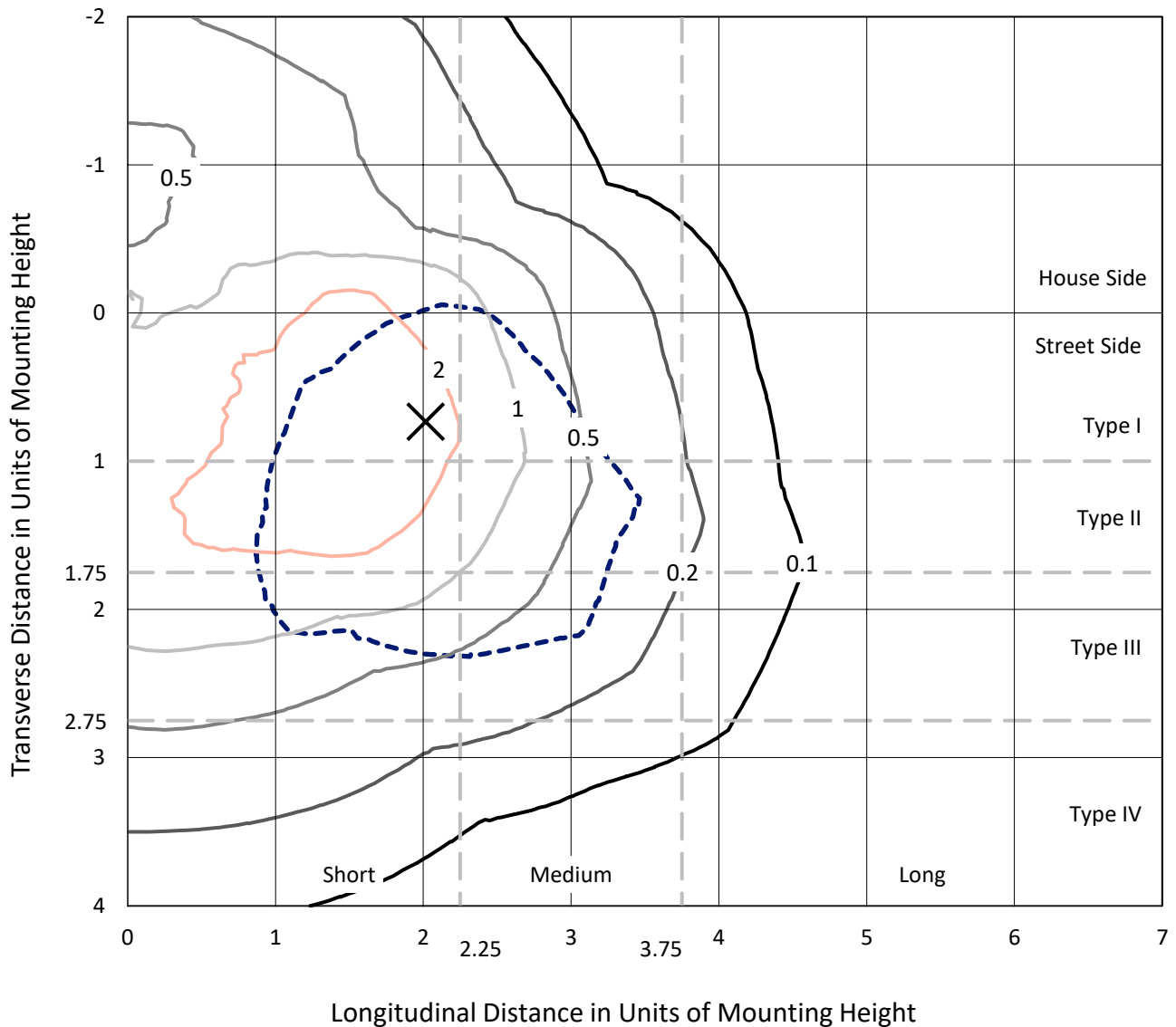
Lumens per Lamp: N/A
Luminaire Lumens: 10749.4 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U4 - G4

Input Watts (W): 70.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

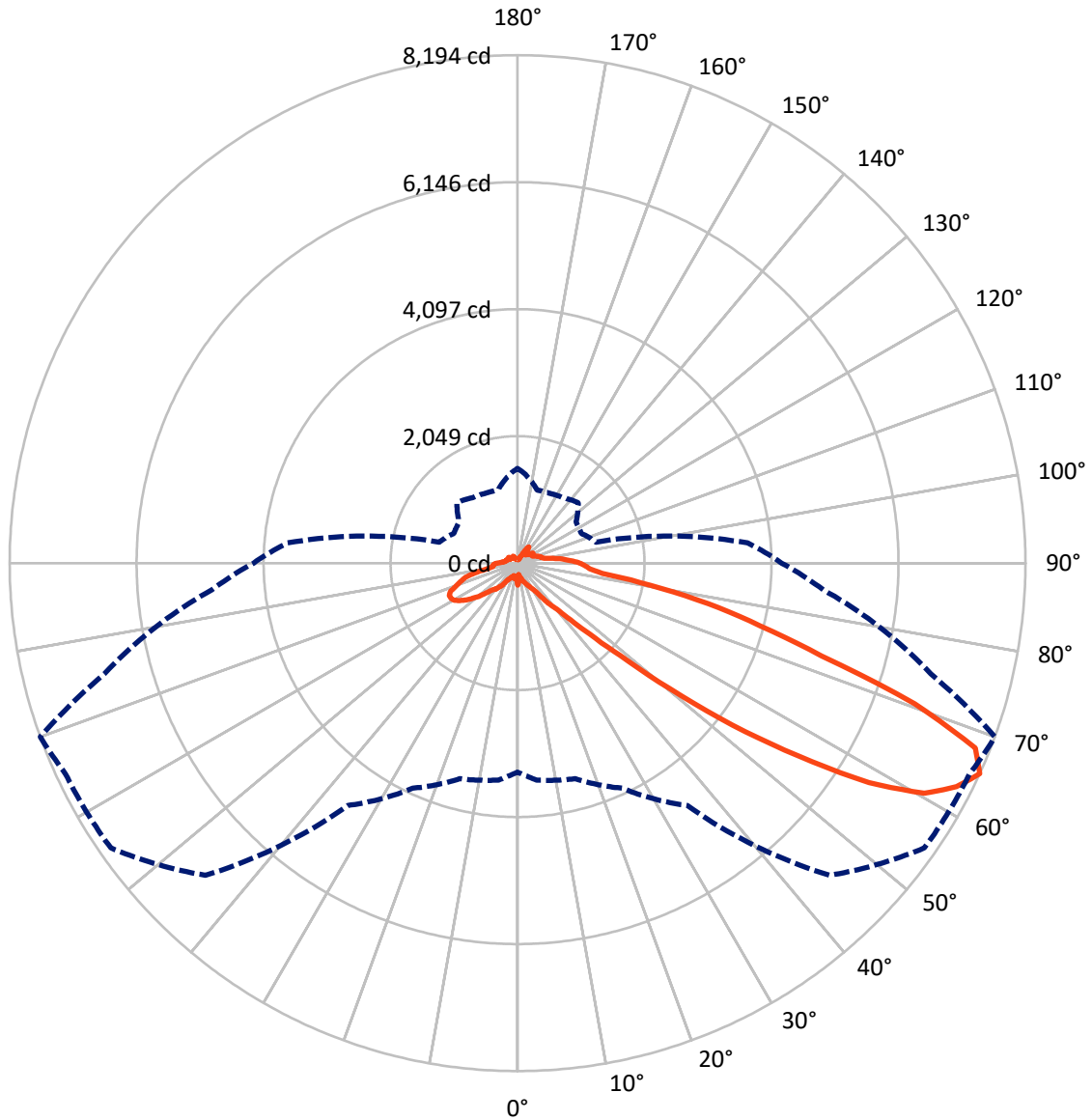
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P856212
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

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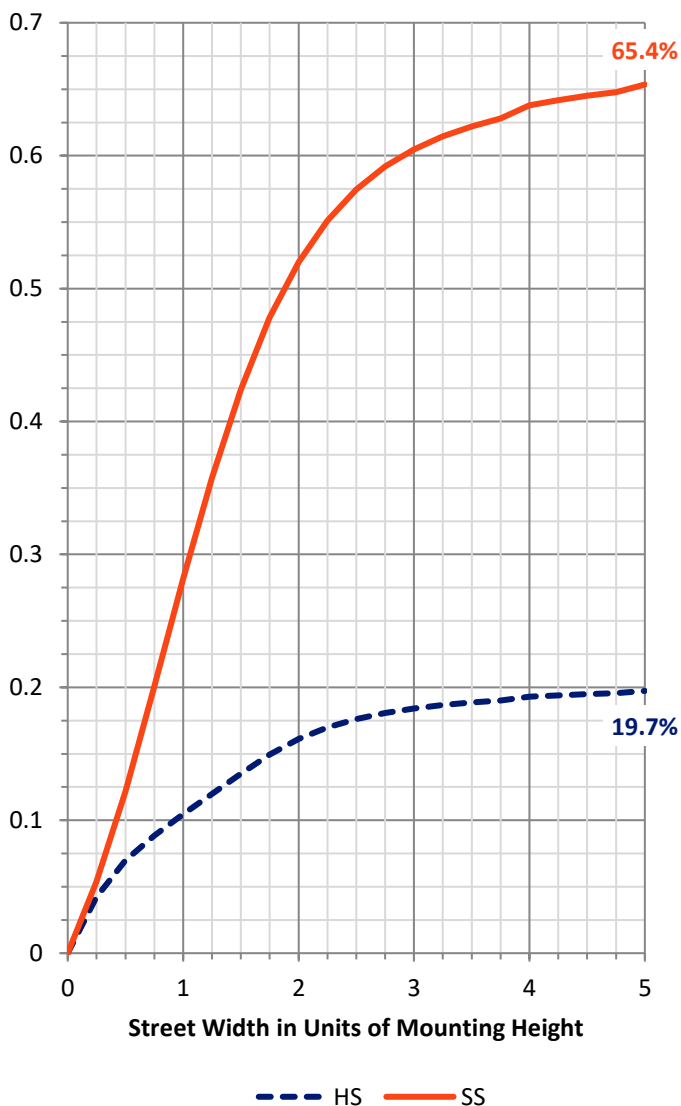
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.7	413.0	2617.7
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	7270.0	861.7	8131.7
	% Fixture	67.6	8.0	75.6
Total	Lumens	9474.8	1274.7	10749.4
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.2
10°-20°	71.9	0.7
20°-30°	145.1	1.3
30°-40°	307.0	2.9
40°-50°	715.8	6.7
50°-60°	2133.3	19.8
60°-70°	3418.4	31.8
70°-80°	1963.8	18.3
80°-90°	696.5	6.5
90°-100°	410.8	3.8
100°-110°	248.2	2.3
110°-120°	186.6	1.7
120°-130°	158.0	1.5
130°-140°	104.9	1.0
140°-150°	98.5	0.9
150°-160°	43.7	0.4
160°-170°	18.1	0.2
170°-180°	6.0	0.1
0°-90°	9474.8	88.1
0°-180°	10749.4	100.0



REPORT NUMBER: P856212

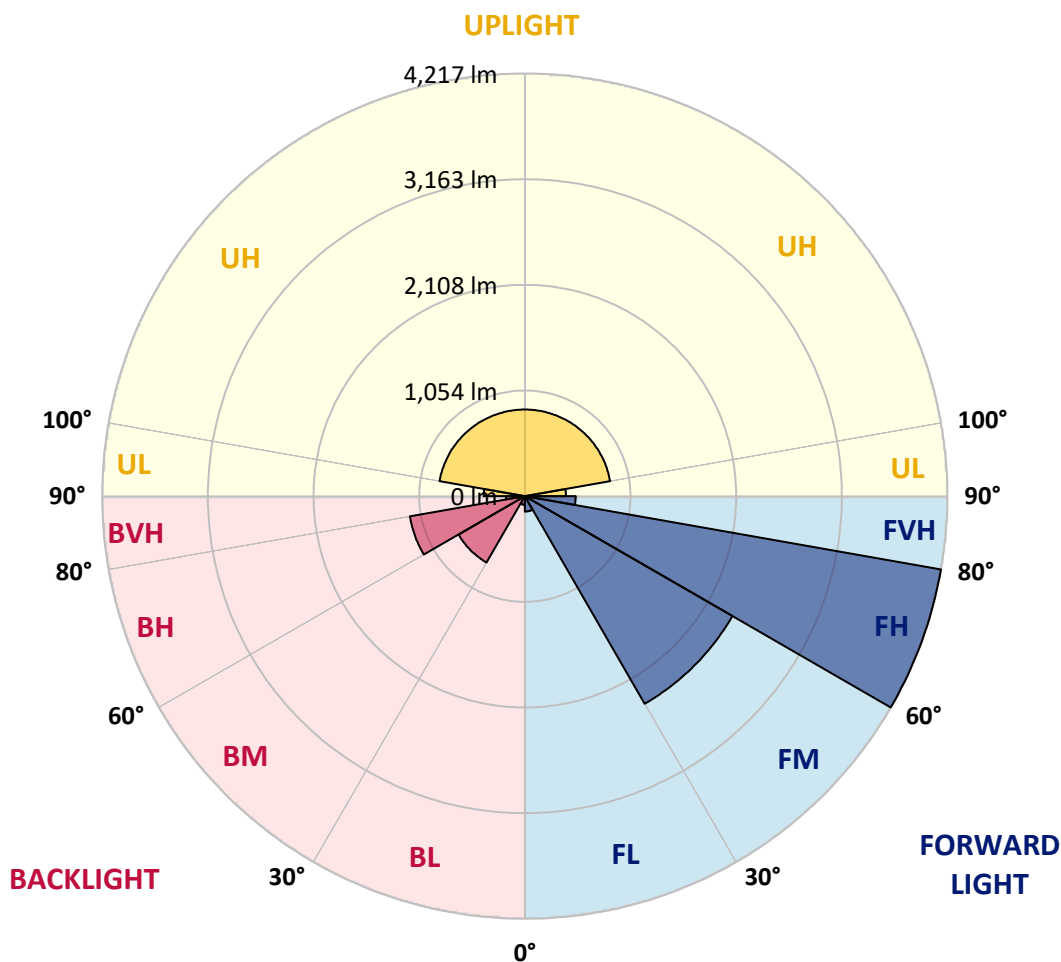
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.0	1.4			
FM (30°-60°)	2391.8	22.3			
FH (60°-80°)	4216.9	39.2			G2/5000
FVH (80°-90°)	507.3	4.7			G4/750
BL (0°-30°)	85.9	0.8	B0/110		
BM (30°-60°)	764.4	7.1	B1/1000		
BH (60°-80°)	1165.3	10.8	B3/2500		G3/2500
BVH (80°-90°)	189.1	1.8			G2/225
UL (90°-100°)	410.8	3.8		U3/500	
UH (100°-180°)	863.9	8.0		U4/1000	

BUG Rating: B3-U4-G4

Type III Short





REPORT NUMBER: P856212

CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	297.3	295.1	300.8	305.3	311.0	303.0	289.4	303.0	307.6	321.3	331.5
5°	252.9	254.0	259.7	272.3	283.7	281.4	246.1	200.5	186.8	181.1	182.3
7.5°	250.6	249.5	246.1	244.9	251.8	276.8	273.4	240.4	215.3	193.7	172.0
10°	264.3	267.7	271.1	271.1	266.6	250.6	249.5	247.2	238.1	227.8	214.2
12.5°	327.0	331.5	334.9	323.5	308.7	292.8	280.2	259.7	250.6	244.9	234.7
15°	395.3	399.9	394.2	372.5	346.3	316.7	305.3	306.4	293.9	279.1	257.5
17.5°	431.8	429.5	405.6	380.5	360.0	337.2	321.3	311.0	306.4	300.8	279.1
20°	409.0	403.3	388.5	378.2	375.9	363.4	353.2	344.0	338.3	325.8	299.6
22.5°	391.9	391.9	389.6	387.3	401.0	395.3	390.7	378.2	370.2	354.3	315.6
25°	413.5	413.5	414.7	411.3	429.5	429.5	429.5	415.8	405.6	382.8	336.1
27.5°	444.3	443.2	446.6	444.3	460.2	463.7	470.5	460.2	445.4	418.1	358.9
30°	477.3	477.3	480.7	483.0	499.0	506.9	514.9	510.4	492.1	459.1	397.6
32.5°	512.6	511.5	521.8	533.2	542.3	557.1	560.5	571.9	553.7	514.9	454.5
35°	563.9	567.3	594.7	618.6	644.8	653.9	669.9	714.3	696.1	643.7	574.2
37.5°	815.7	798.6	791.8	764.4	761.0	814.5	833.9	876.1	839.6	769.0	663.0
40°	864.7	844.2	835.0	808.8	818.0	928.5	909.1	1060.6	971.7	859.0	790.6
42.5°	814.5	811.1	918.2	938.7	927.3	1102.8	1065.2	1345.4	1250.9	988.8	912.5
45°	983.1	974.0	1019.6	1056.0	1084.5	1400.1	1377.3	1672.4	1631.3	1204.1	1129.0
47.5°	1109.6	1100.5	1152.9	1274.8	1441.1	1782.9	1916.2	2361.6	2222.6	1656.4	1485.5
50°	1487.8	1482.1	1623.4	1754.4	2028.9	2533.6	2899.3	3380.0	3176.1	2313.7	1999.3
52.5°	1845.5	1863.7	2028.9	2280.7	2571.2	3482.6	4004.3	4341.5	4339.3	3013.2	2566.6
55°	2101.8	2163.4	2358.2	2812.7	3216.0	4324.4	5028.5	5278.0	5487.6	4020.3	3126.0
57.5°	2599.7	2706.8	2893.6	3343.6	3864.2	5342.9	6347.7	6306.7	6683.7	5064.9	3734.3
60°	3111.2	3236.5	3299.2	3712.7	4396.2	6323.8	7254.5	7158.8	7538.2	5974.0	4374.6
62.5°	3270.7	3393.7	3455.2	3905.2	4780.1	6879.7	7672.6	7710.2	7946.0	6622.2	4753.9
65°	3370.9	3512.2	3601.0	4006.6	4772.2	7122.3	8010.9	8046.2	8194.3	6901.3	4949.9
67.5°	3352.7	3511.0	3625.0	3988.4	4507.9	6920.7	7926.6	7767.1	7965.4	6702.0	4743.7
70°	2990.4	3128.3	3242.2	3522.4	3762.8	5830.5	6858.0	6594.9	6799.9	5599.2	3916.6
72.5°	2443.6	2500.6	2599.7	2731.8	2851.4	4325.6	5231.3	5005.7	5124.2	4200.3	2934.6
75°	2007.3	1995.9	2084.8	2180.4	2142.9	3160.2	4138.7	3932.6	4043.1	3189.8	2341.1
77.5°	1487.8	1482.1	1610.8	1602.9	1545.9	2188.4	3280.9	3131.7	3146.5	2355.9	1753.2
80°	894.3	911.4	1036.7	1061.7	994.5	1372.7	2342.2	2271.6	2165.6	1609.7	1229.2
82.5°	627.7	653.9	720.0	747.3	714.3	1002.5	1551.6	1502.6	1377.3	1167.7	865.8
85°	640.2	644.8	652.8	655.0	640.2	900.0	1204.1	1176.8	1168.8	978.6	714.3
87.5°	640.2	650.5	657.3	656.2	630.0	843.0	1110.7	1067.4	1077.7	914.8	690.4
90°	574.2	592.4	591.2	594.7	573.0	762.1	1007.1	971.7	985.4	824.8	627.7
92.5°	469.4	481.9	494.4	518.3	486.4	648.2	851.0	818.0	835.0	701.8	534.3
95°	436.3	447.7	455.7	468.2	436.3	576.4	753.0	713.1	720.0	595.8	452.3
97.5°	353.2	360.0	369.1	371.4	348.6	443.2	573.0	538.8	543.4	462.5	355.4
100°	296.2	301.9	309.9	309.9	295.1	366.8	453.4	435.2	432.9	378.2	300.8
102.5°	280.2	282.5	295.1	292.8	278.0	338.3	410.1	398.7	399.9	350.9	282.5
105°	275.7	275.7	288.2	282.5	270.0	322.4	383.9	380.5	379.4	333.8	271.1
107.5°	271.1	271.1	283.7	278.0	267.7	304.2	361.1	349.7	348.6	317.8	256.3
110°	252.9	256.3	270.0	263.2	255.2	287.1	331.5	323.5	323.5	299.6	244.9



REPORT NUMBER: P856212

CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	224.4	226.7	239.2	233.5	227.8	255.2	293.9	283.7	284.8	268.9	229.0
115°	209.6	213.0	225.6	217.6	213.0	238.1	272.3	265.4	267.7	252.9	216.4
117.5°	210.8	211.9	221.0	222.1	213.0	233.5	251.8	254.0	257.5	248.3	219.9
120°	256.3	250.6	255.2	249.5	244.9	268.9	290.5	292.8	291.6	274.5	218.7
122.5°	258.6	247.2	259.7	251.8	247.2	273.4	297.3	303.0	297.3	282.5	223.3
125°	206.2	209.6	210.8	213.0	217.6	246.1	258.6	259.7	260.9	256.3	216.4
127.5°	181.1	180.0	174.3	175.4	185.7	210.8	219.9	226.7	222.1	219.9	194.8
130°	173.2	175.4	174.3	174.3	180.0	199.4	206.2	216.4	213.0	208.5	177.7
132.5°	159.5	161.8	172.0	184.6	182.3	189.1	191.4	201.6	202.8	202.8	178.9
135°	151.5	153.8	161.8	177.7	173.2	176.6	175.4	184.6	185.7	186.8	168.6
137.5°	154.9	156.1	151.5	153.8	157.2	172.0	176.6	185.7	185.7	181.1	157.2
140°	162.9	162.9	152.7	149.2	156.1	178.9	188.0	202.8	200.5	192.5	162.9
142.5°	150.4	152.7	158.4	165.2	180.0	242.7	242.7	271.1	280.2	282.5	197.1
145°	195.9	197.1	199.4	202.8	231.3	317.8	289.4	309.9	317.8	325.8	237.0
147.5°	225.6	227.8	225.6	216.4	242.7	272.3	258.6	267.7	276.8	279.1	238.1
150°	176.6	174.3	173.2	172.0	200.5	209.6	198.2	197.1	203.9	209.6	184.6
152.5°	128.7	127.6	126.5	125.3	150.4	144.7	136.7	136.7	139.0	140.1	129.9
155°	113.9	112.8	110.5	111.6	127.6	121.9	115.1	112.8	115.1	113.9	108.2
157.5°	93.4	91.1	91.1	95.7	103.7	96.8	92.3	88.9	90.0	88.9	90.0
160°	77.5	76.3	77.5	83.2	87.7	82.0	77.5	75.2	75.2	77.5	82.0
162.5°	69.5	68.4	69.5	71.8	74.0	68.4	64.9	64.9	66.1	70.6	79.7
165°	60.4	60.4	61.5	62.7	63.8	60.4	59.2	59.2	61.5	68.4	78.6
167.5°	58.1	58.1	58.1	58.1	58.1	57.0	55.8	59.2	61.5	64.9	71.8
170°	57.0	55.8	57.0	57.0	57.0	57.0	57.0	60.4	60.4	61.5	64.9
172.5°	58.1	58.1	58.1	59.2	61.5	62.7	61.5	63.8	62.7	62.7	62.7
175°	59.2	59.2	60.4	61.5	62.7	63.8	64.9	64.9	64.9	66.1	66.1
177.5°	59.2	59.2	60.4	61.5	62.7	60.4	58.1	57.0	55.8	55.8	55.8
180°	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4



REPORT NUMBER: P856212

CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	322.4	293.9	254.0	271.1	323.5	313.3	260.9	229.0	231.3	254.0	256.3
5°	188.0	193.7	219.9	274.5	284.8	235.8	190.2	183.4	221.0	273.4	283.7
7.5°	169.7	169.7	191.4	266.6	299.6	246.1	185.7	167.5	195.9	239.2	246.1
10°	205.1	198.2	200.5	227.8	240.4	197.1	166.3	158.4	174.3	180.0	177.7
12.5°	231.3	235.8	257.5	251.8	197.1	160.6	150.4	149.2	158.4	164.0	162.9
15°	248.3	240.4	224.4	206.2	188.0	167.5	152.7	143.5	133.3	128.7	128.7
17.5°	264.3	248.3	219.9	202.8	184.6	169.7	156.1	142.4	137.8	139.0	139.0
20°	283.7	264.3	238.1	218.7	197.1	176.6	159.5	144.7	141.3	142.4	141.3
22.5°	298.5	281.4	254.0	229.0	206.2	183.4	166.3	151.5	147.0	145.8	145.8
25°	316.7	301.9	273.4	242.7	215.3	193.7	178.9	161.8	153.8	151.5	151.5
27.5°	340.6	328.1	296.2	263.2	231.3	206.2	190.2	172.0	160.6	156.1	154.9
30°	377.1	360.0	324.7	283.7	250.6	224.4	205.1	182.3	168.6	160.6	159.5
32.5°	431.8	410.1	363.4	312.1	272.3	244.9	221.0	192.5	175.4	166.3	165.2
35°	548.0	524.0	464.8	393.0	334.9	279.1	241.5	203.9	182.3	170.9	169.7
37.5°	620.9	577.6	505.8	440.9	370.2	337.2	289.4	239.2	191.4	176.6	174.3
40°	726.8	671.0	581.0	493.3	369.1	368.0	336.1	291.6	225.6	186.8	183.4
42.5°	805.4	733.7	620.9	522.9	372.5	382.8	355.4	316.7	267.7	217.6	211.9
45°	966.0	874.9	696.1	549.1	377.1	399.9	372.5	331.5	288.2	252.9	249.5
47.5°	1266.8	1140.3	841.9	599.2	428.3	456.8	407.8	360.0	317.8	282.5	274.5
50°	1687.2	1535.7	1018.5	643.7	516.1	581.0	501.3	428.3	378.2	350.9	342.9
52.5°	2180.4	2010.7	1129.0	713.1	622.0	733.7	645.9	560.5	494.4	499.0	494.4
55°	2730.7	2530.2	1225.8	818.0	757.6	903.4	807.7	733.7	698.3	797.4	803.1
57.5°	3261.6	3047.4	1286.2	928.5	909.1	1099.3	987.7	935.3	949.0	1239.5	1307.8
60°	3768.5	3430.2	1332.9	1032.1	1036.7	1253.1	1167.7	1157.4	1199.6	1572.1	1675.8
62.5°	4061.3	3626.1	1330.6	1099.3	1116.4	1347.7	1272.5	1278.2	1310.1	1626.8	1713.4
65°	4260.6	3725.2	1307.8	1133.5	1150.6	1381.9	1285.0	1240.6	1220.1	1436.5	1528.8
67.5°	4141.0	3533.8	1253.1	1103.9	1126.7	1327.2	1206.4	1094.8	1059.5	1176.8	1231.5
70°	3500.8	2952.8	1116.4	1003.6	1018.5	1119.8	1017.3	895.4	860.1	921.6	946.7
72.5°	2645.2	2267.0	1001.4	927.3	892.0	926.2	825.9	698.3	690.4	723.4	728.0
75°	2113.2	1779.4	912.5	836.2	741.6	776.9	656.2	519.5	509.2	511.5	500.1
77.5°	1592.6	1323.8	767.8	658.5	561.6	619.7	487.6	358.9	341.8	334.9	322.4
80°	1090.2	919.3	521.8	440.9	398.7	454.5	347.5	263.2	262.0	259.7	246.1
82.5°	773.5	709.7	426.1	374.8	338.3	357.7	301.9	246.1	240.4	241.5	226.7
85°	676.7	642.5	411.3	379.4	344.0	342.9	288.2	230.1	227.8	229.0	215.3
87.5°	647.1	609.5	402.1	362.3	328.1	311.0	254.0	202.8	208.5	211.9	199.4
90°	579.9	541.1	364.5	323.5	290.5	260.9	215.3	183.4	192.5	194.8	183.4
92.5°	488.7	448.8	283.7	259.7	243.8	239.2	201.6	174.3	181.1	182.3	173.2
95°	413.5	377.1	247.2	229.0	217.6	216.4	182.3	158.4	161.8	160.6	152.7
97.5°	332.6	306.4	216.4	199.4	186.8	180.0	156.1	137.8	142.4	144.7	139.0
100°	283.7	268.9	201.6	186.8	172.0	162.9	142.4	127.6	132.1	136.7	132.1
102.5°	266.6	255.2	198.2	182.3	166.3	154.9	135.6	119.6	121.9	127.6	124.2
105°	252.9	242.7	192.5	175.4	160.6	148.1	132.1	112.8	111.6	117.3	116.2
107.5°	238.1	229.0	189.1	168.6	152.7	141.3	126.5	108.2	103.7	107.1	105.9
110°	230.1	221.0	182.3	160.6	143.5	133.3	119.6	104.8	99.1	100.3	100.3



REPORT NUMBER: P856212

CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	214.2	203.9	167.5	147.0	133.3	124.2	110.5	100.3	93.4	95.7	96.8
115°	203.9	190.2	153.8	139.0	124.2	116.2	108.2	99.1	91.1	91.1	92.3
117.5°	210.8	184.6	143.5	132.1	124.2	121.9	119.6	105.9	90.0	88.9	88.9
120°	201.6	185.7	156.1	152.7	144.7	137.8	123.0	104.8	87.7	85.4	85.4
122.5°	197.1	193.7	176.6	165.2	150.4	136.7	115.1	95.7	84.3	82.0	82.0
125°	194.8	191.4	170.9	149.2	129.9	116.2	102.5	90.0	83.2	79.7	79.7
127.5°	178.9	162.9	137.8	125.3	112.8	107.1	95.7	87.7	79.7	75.2	75.2
130°	165.2	150.4	128.7	115.1	104.8	100.3	92.3	84.3	76.3	71.8	70.6
132.5°	162.9	148.1	125.3	108.2	99.1	94.6	90.0	80.9	71.8	67.2	66.1
135°	151.5	134.4	111.6	102.5	96.8	93.4	90.0	78.6	69.5	64.9	64.9
137.5°	140.1	123.0	105.9	101.4	96.8	93.4	83.2	71.8	64.9	61.5	61.5
140°	141.3	121.9	108.2	104.8	98.0	87.7	78.6	70.6	64.9	60.4	59.2
142.5°	150.4	126.5	109.4	99.1	94.6	88.9	85.4	76.3	64.9	57.0	54.7
145°	165.2	136.7	123.0	118.5	110.5	100.3	87.7	70.6	59.2	52.4	51.3
147.5°	182.3	153.8	137.8	125.3	109.4	92.3	75.2	61.5	52.4	50.1	49.0
150°	158.4	131.0	118.5	101.4	87.7	74.0	61.5	54.7	50.1	49.0	49.0
152.5°	119.6	98.0	87.7	79.7	71.8	64.9	58.1	53.5	50.1	47.8	47.8
155°	103.7	92.3	82.0	74.0	66.1	59.2	53.5	51.3	47.8	47.8	46.7
157.5°	91.1	85.4	71.8	64.9	59.2	55.8	53.5	50.1	49.0	47.8	47.8
160°	83.2	79.7	66.1	60.4	57.0	54.7	54.7	52.4	49.0	47.8	47.8
162.5°	80.9	77.5	63.8	58.1	54.7	55.8	58.1	57.0	52.4	50.1	50.1
165°	79.7	77.5	64.9	57.0	54.7	55.8	61.5	62.7	57.0	53.5	52.4
167.5°	72.9	71.8	68.4	62.7	59.2	59.2	62.7	63.8	61.5	61.5	60.4
170°	66.1	66.1	67.2	68.4	66.1	62.7	60.4	60.4	63.8	67.2	68.4
172.5°	63.8	64.9	67.2	70.6	70.6	66.1	62.7	61.5	64.9	69.5	70.6
175°	67.2	68.4	69.5	69.5	67.2	66.1	64.9	63.8	66.1	70.6	71.8
177.5°	55.8	55.8	57.0	57.0	55.8	57.0	55.8	53.5	53.5	53.5	53.5
180°	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4

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.

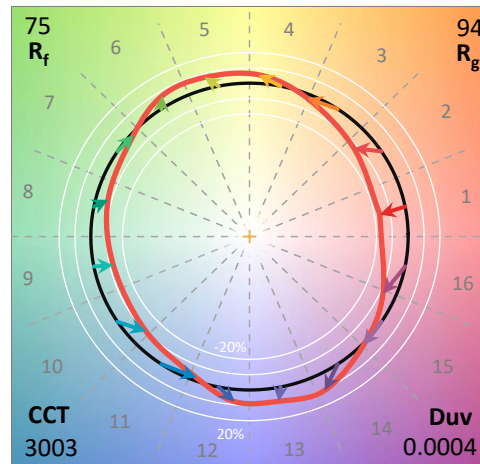
Test Information

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	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

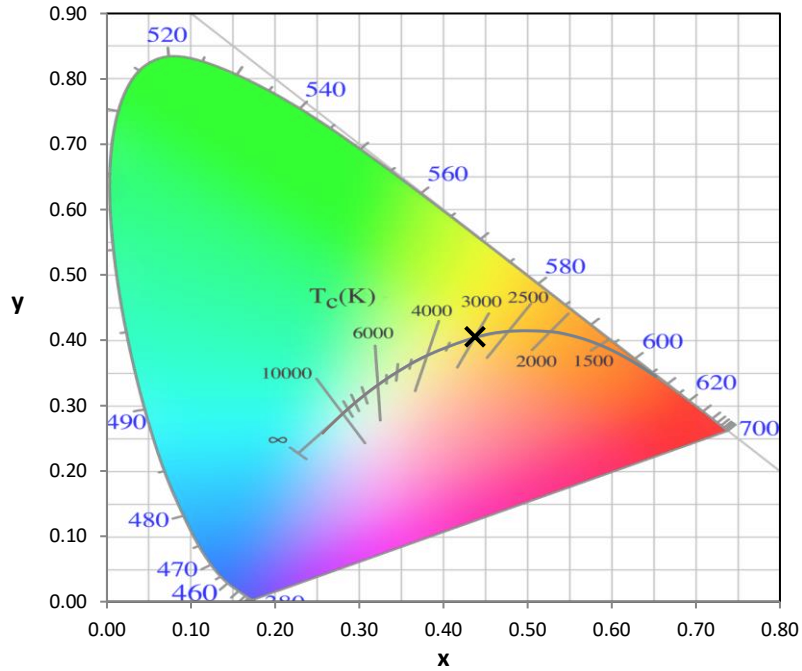
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

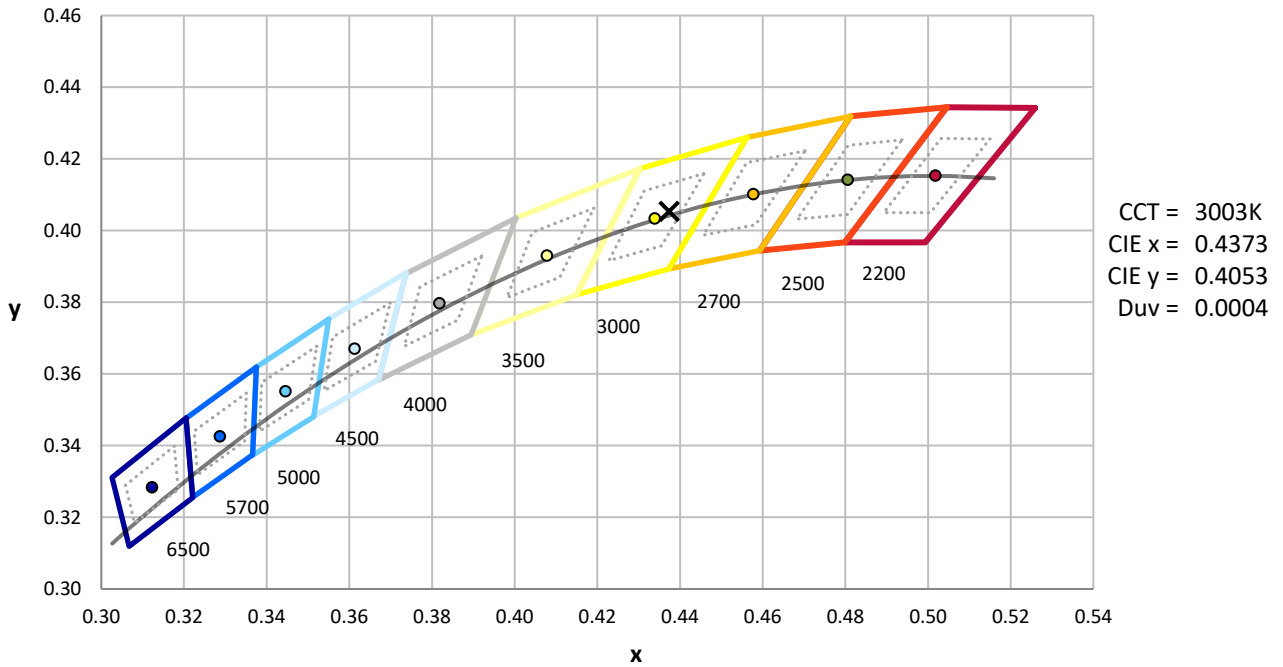
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



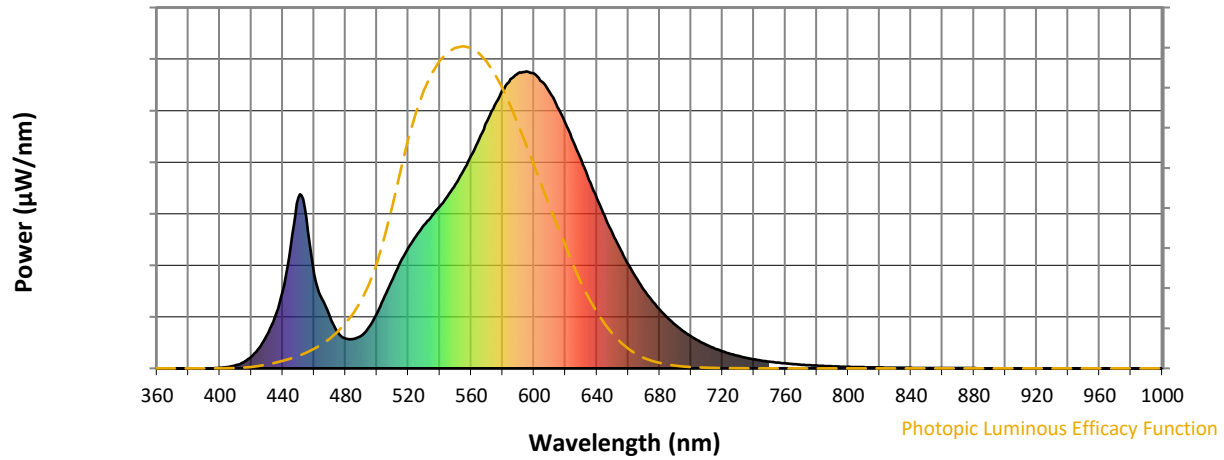
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

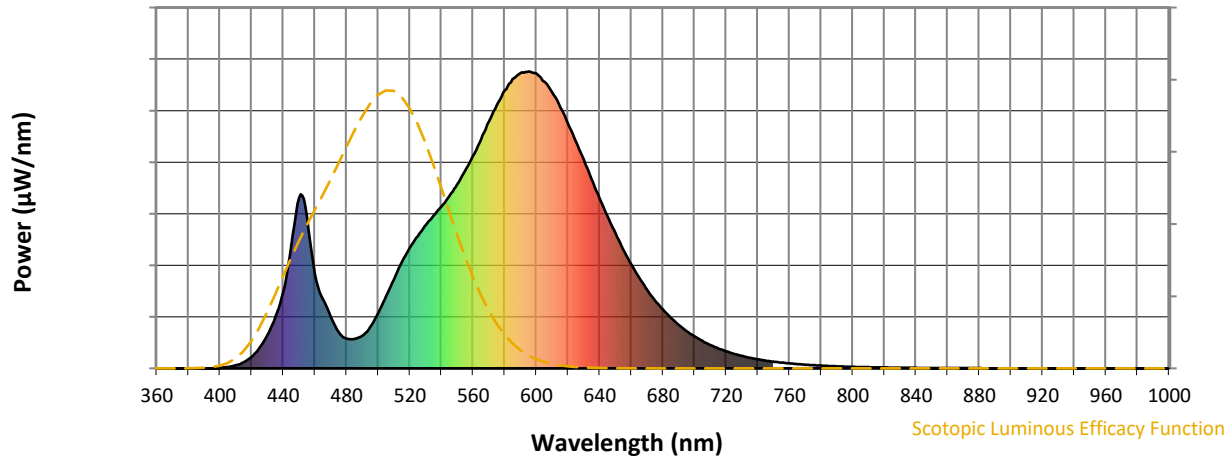


Photopic Lumens: NR

λ (nm)	Power 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



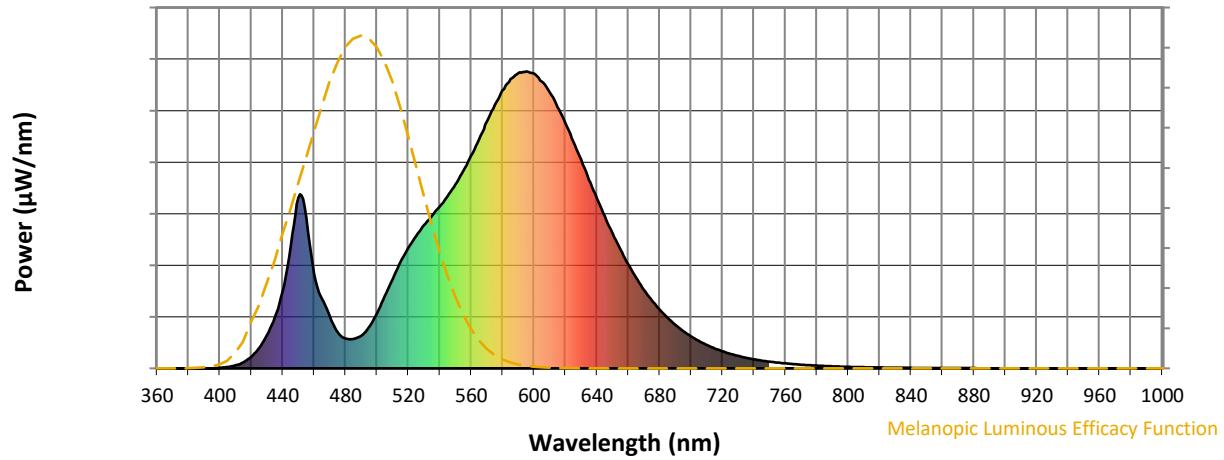
Scotopic Lumens: NR

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

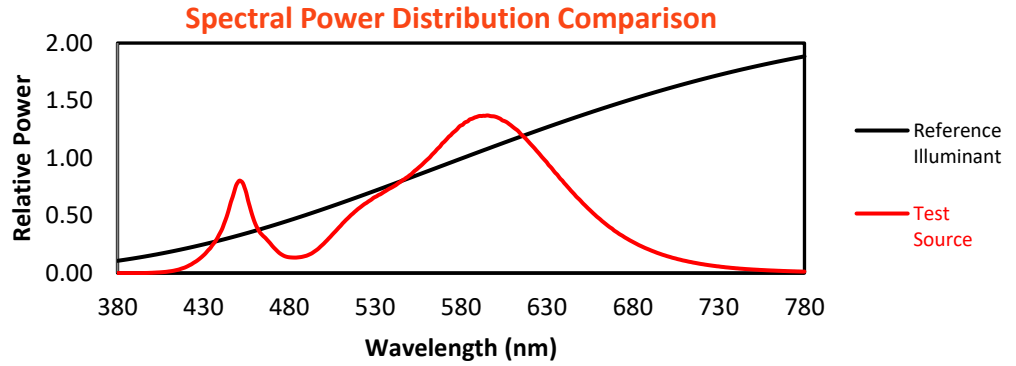
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186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

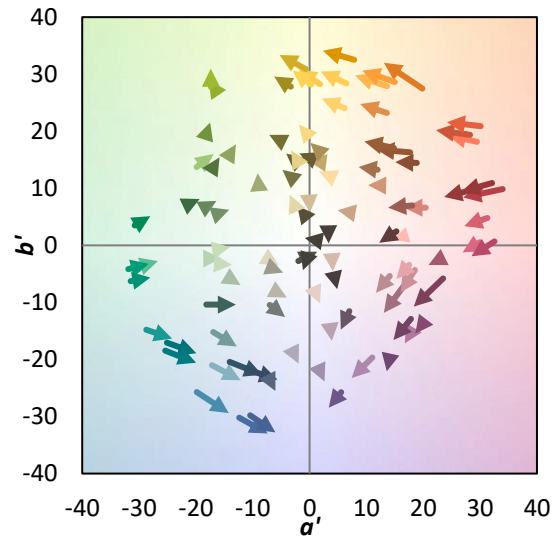
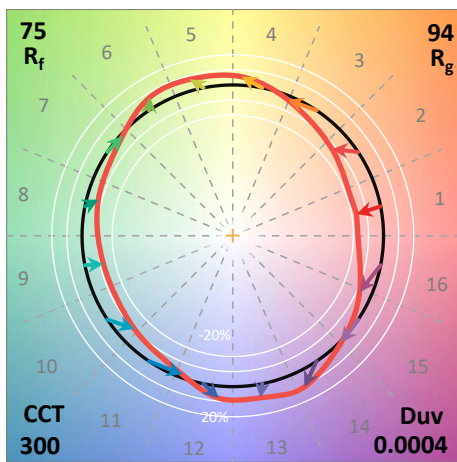
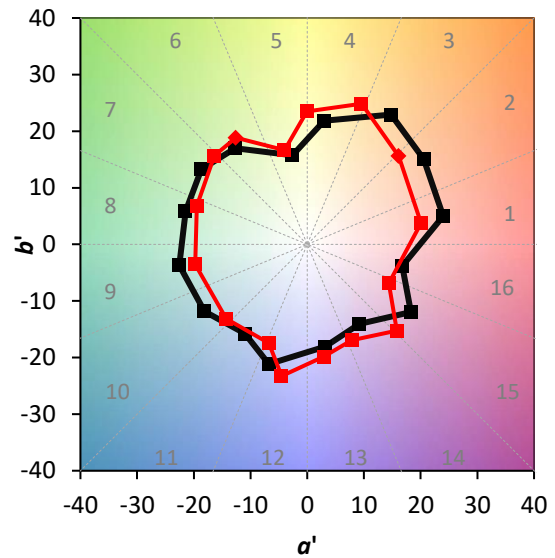
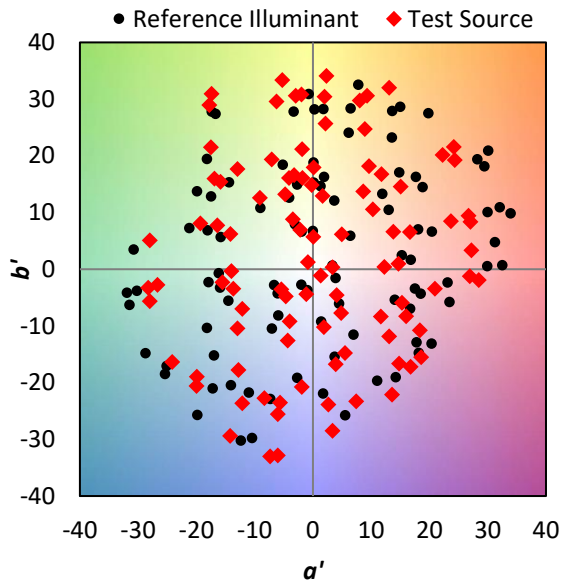
TM-30-18

Summary

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



Color Vector Graphics

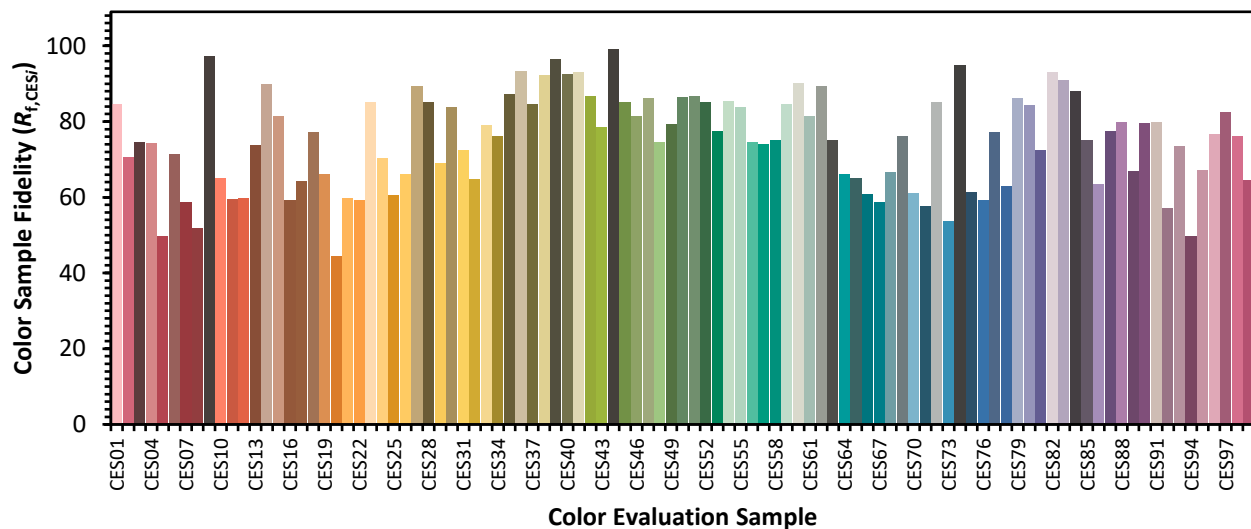


REPORT NUMBER: SP1-2406-133-4

TM-30-18

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

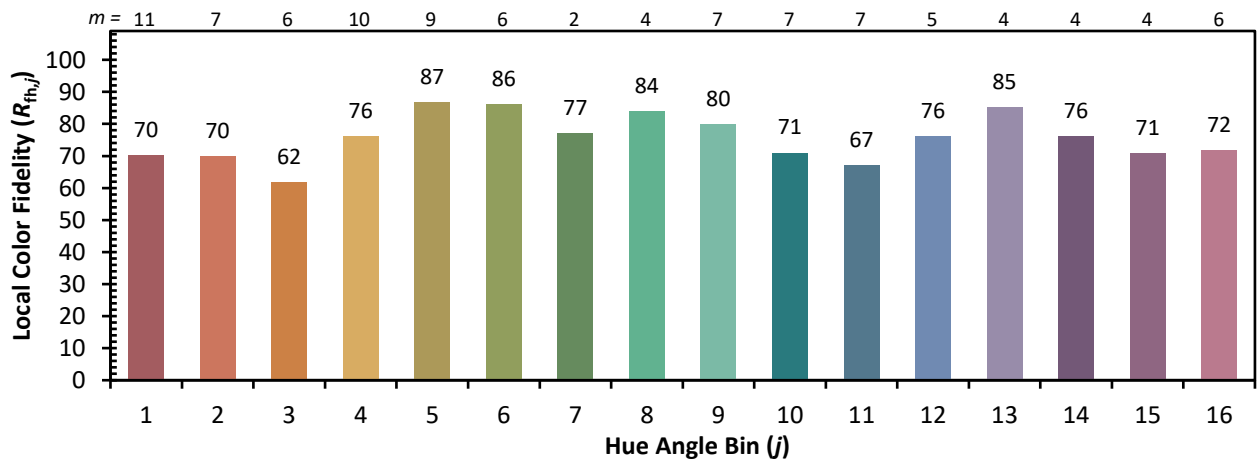
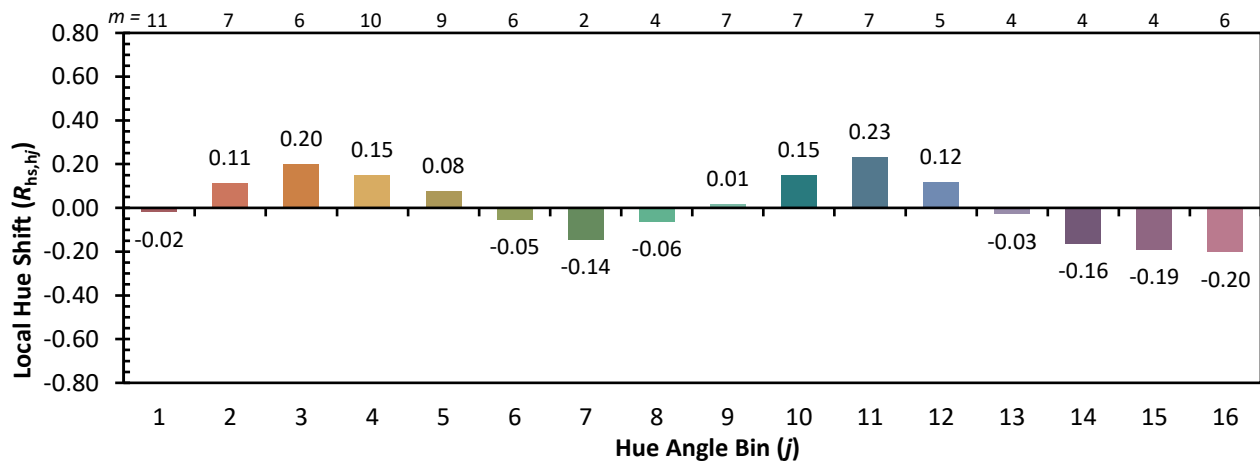
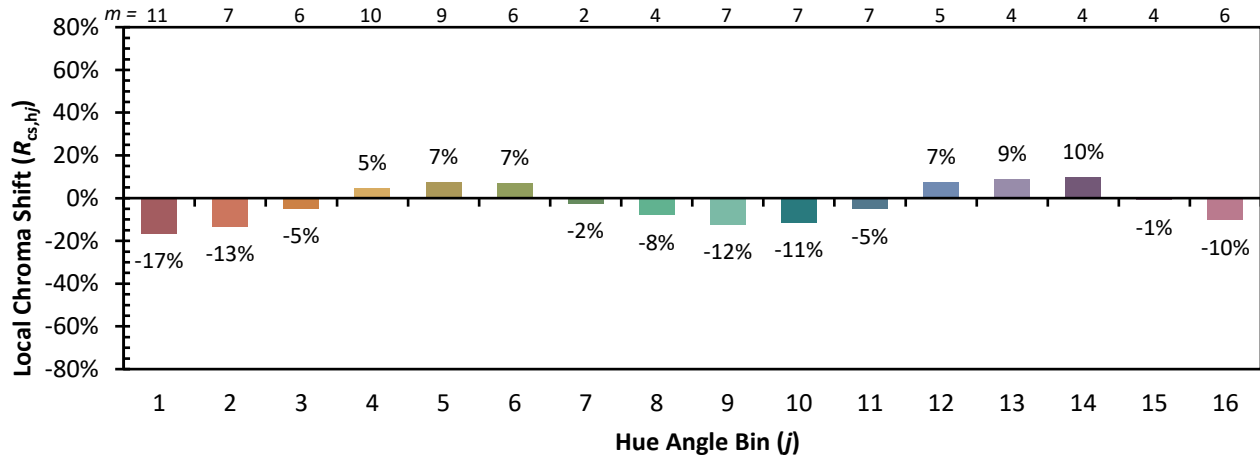
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82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

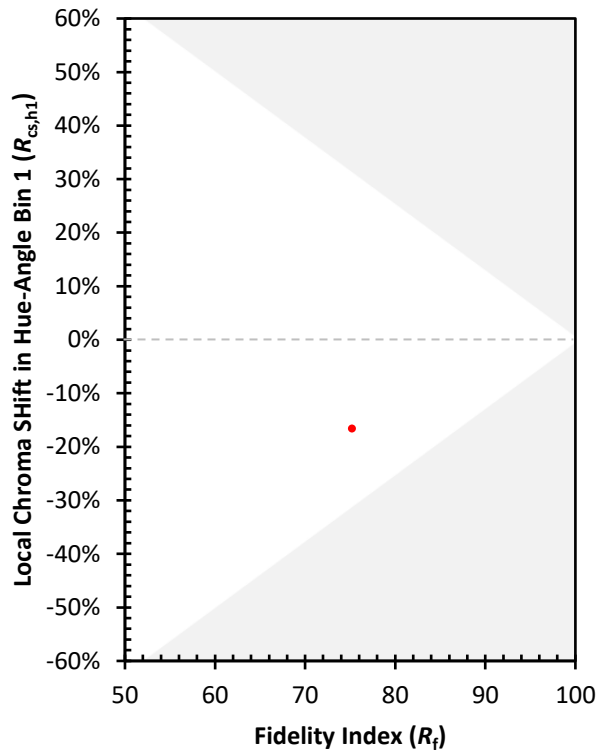
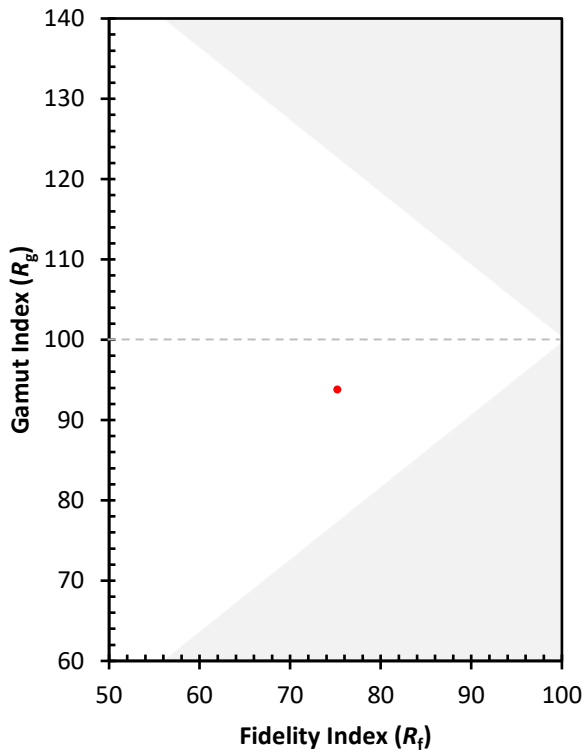
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)