

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: P856217

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856217
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-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

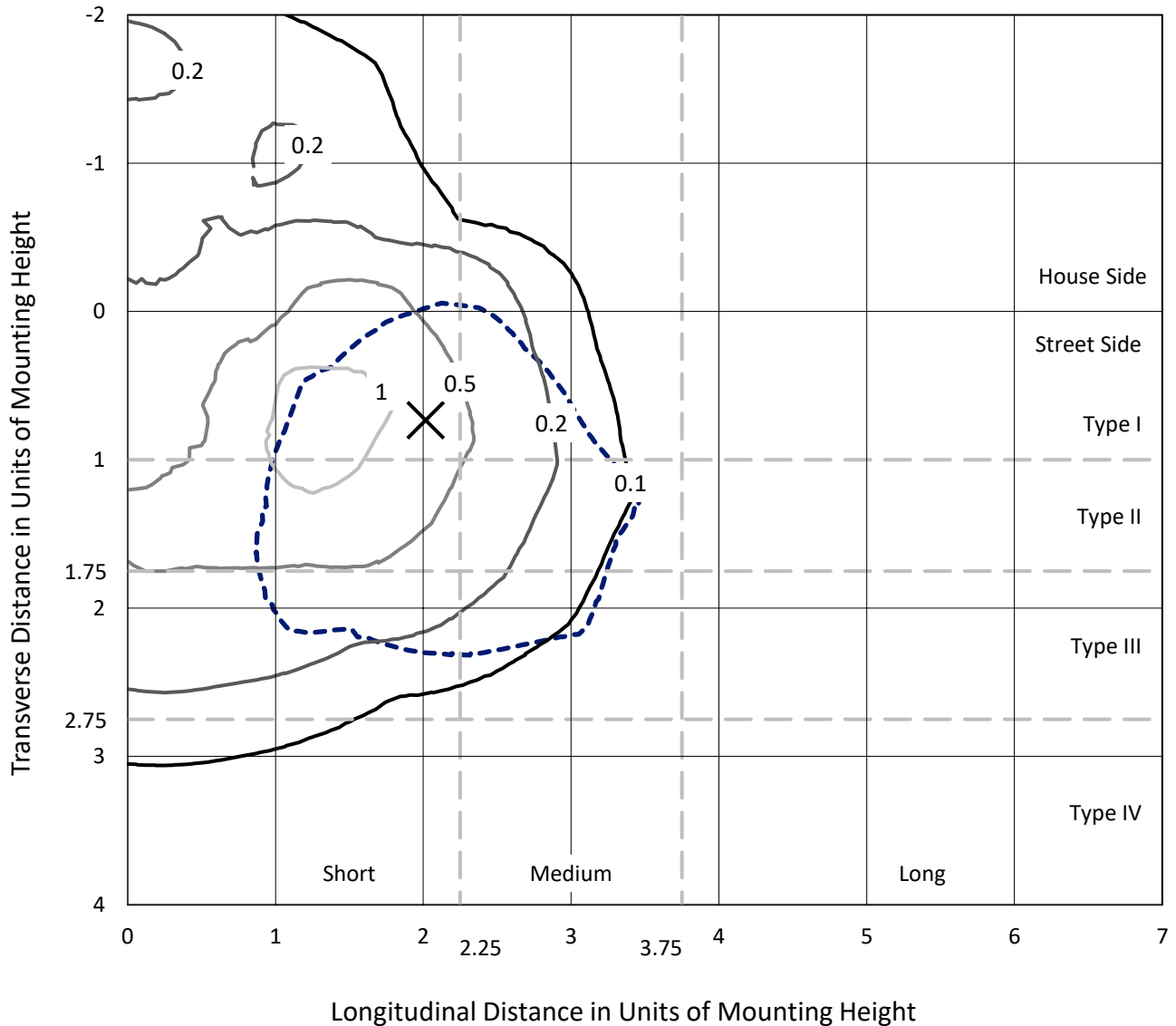
Lumens per Lamp: N/A
Luminaire Lumens: 3083.5 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U3 - G2

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: P856217
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR

Iso-Footcandle Lines of Horizontal Illumination

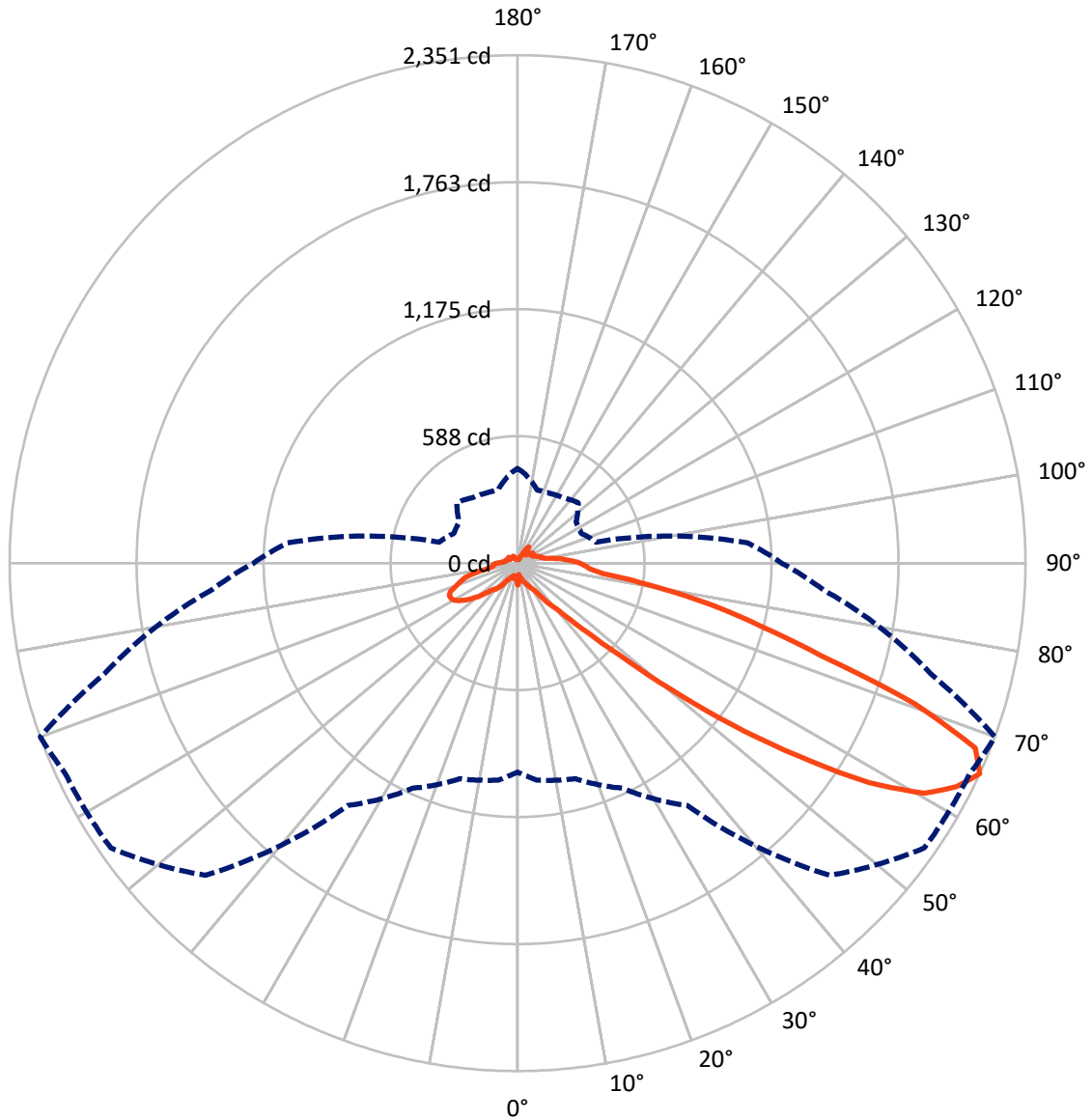
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P856217
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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



REPORT NUMBER: P856217
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR

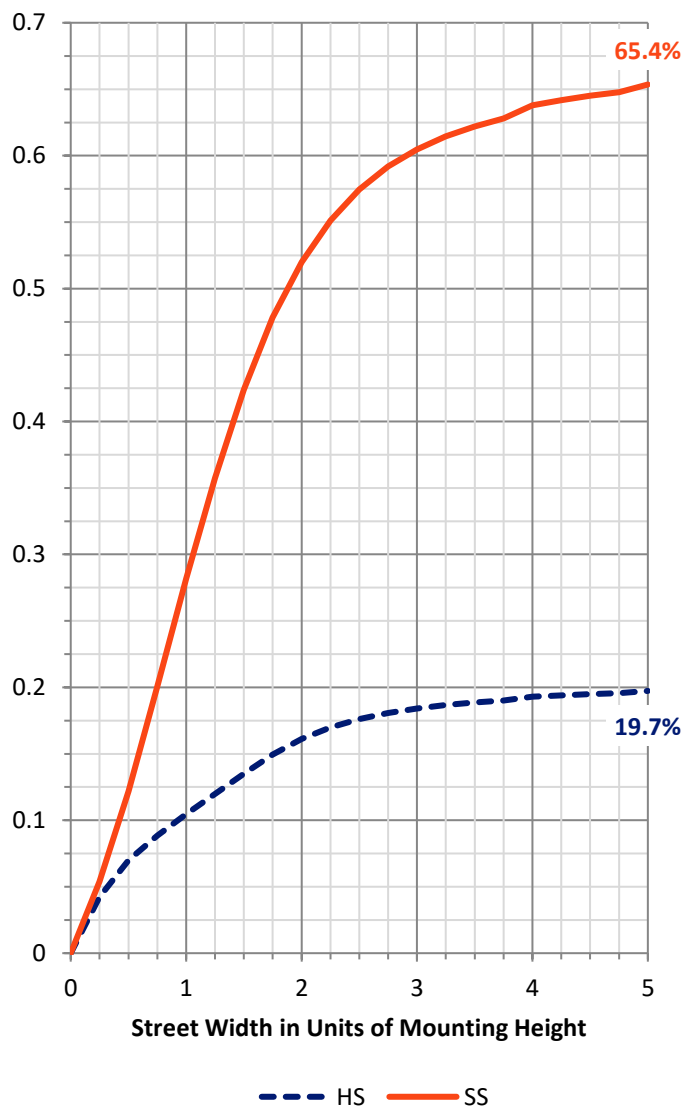
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.4	118.5	750.9
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	2085.4	247.2	2332.6
	% Fixture	67.6	8.0	75.6
Total	Lumens	2717.9	365.6	3083.5
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.2
10°-20°	20.6	0.7
20°-30°	41.6	1.3
30°-40°	88.1	2.9
40°-50°	205.3	6.7
50°-60°	611.9	19.8
60°-70°	980.6	31.8
70°-80°	563.3	18.3
80°-90°	199.8	6.5
90°-100°	117.8	3.8
100°-110°	71.2	2.3
110°-120°	53.5	1.7
120°-130°	45.3	1.5
130°-140°	30.1	1.0
140°-150°	28.3	0.9
150°-160°	12.5	0.4
160°-170°	5.2	0.2
170°-180°	1.7	0.1
0°-90°	2717.9	88.1
0°-180°	3083.5	100.0



REPORT NUMBER: P856217

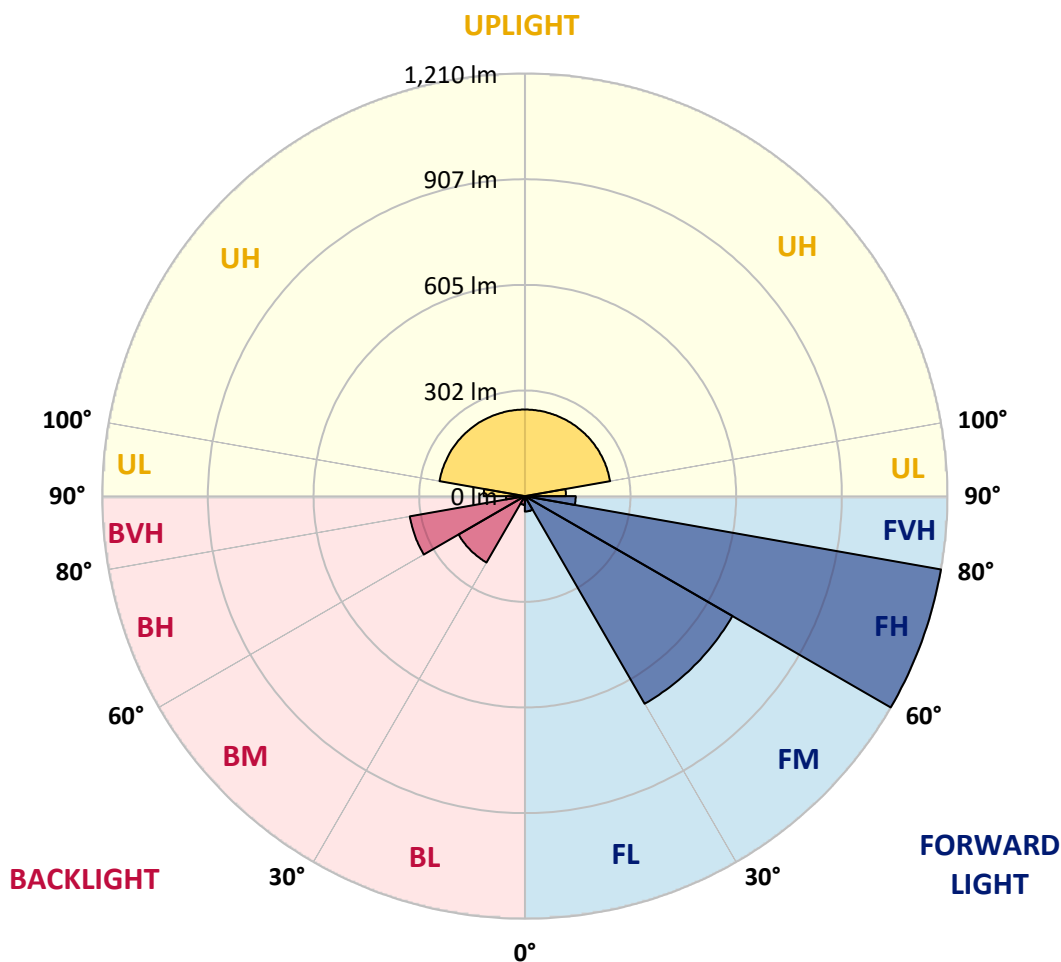
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	44.2	1.4			
FM (30°-60°)	686.1	22.3			
FH (60°-80°)	1209.6	39.2			G1/1800
FVH (80°-90°)	145.5	4.7			G2/225
BL (0°-30°)	24.6	0.8	B0/110		
BM (30°-60°)	219.3	7.1	B0/220		
BH (60°-80°)	334.3	10.8	B1/500		G1/500
BVH (80°-90°)	54.3	1.8			G1/100
UL (90°-100°)	117.8	3.8		U3/500	
UH (100°-180°)	247.8	8.0		U3/500	

BUG Rating: B1-U3-G2

Type III Short





REPORT NUMBER: P856217

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3
2.5°	85.3	84.6	86.3	87.6	89.2	86.9	83.0	86.9	88.2	92.2	95.1
5°	72.5	72.9	74.5	78.1	81.4	80.7	70.6	57.5	53.6	52.0	52.3
7.5°	71.9	71.6	70.6	70.3	72.2	79.4	78.4	69.0	61.8	55.6	49.3
10°	75.8	76.8	77.8	77.8	76.5	71.9	71.6	70.9	68.3	65.4	61.4
12.5°	93.8	95.1	96.1	92.8	88.6	84.0	80.4	74.5	71.9	70.3	67.3
15°	113.4	114.7	113.1	106.9	99.3	90.8	87.6	87.9	84.3	80.1	73.9
17.5°	123.9	123.2	116.3	109.1	103.3	96.7	92.2	89.2	87.9	86.3	80.1
20°	117.3	115.7	111.4	108.5	107.8	104.2	101.3	98.7	97.1	93.5	85.9
22.5°	112.4	112.4	111.8	111.1	115.0	113.4	112.1	108.5	106.2	101.6	90.5
25°	118.6	118.6	118.9	118.0	123.2	123.2	123.2	119.3	116.3	109.8	96.4
27.5°	127.4	127.1	128.1	127.4	132.0	133.0	135.0	132.0	127.8	119.9	102.9
30°	136.9	136.9	137.9	138.6	143.1	145.4	147.7	146.4	141.2	131.7	114.0
32.5°	147.1	146.7	149.7	152.9	155.5	159.8	160.8	164.0	158.8	147.7	130.4
35°	161.8	162.7	170.6	177.4	185.0	187.6	192.1	204.9	199.7	184.6	164.7
37.5°	234.0	229.1	227.1	219.3	218.3	233.7	239.2	251.3	240.8	220.6	190.2
40°	248.0	242.1	239.5	232.0	234.6	266.3	260.8	304.2	278.7	246.4	226.8
42.5°	233.7	232.7	263.4	269.3	266.0	316.3	305.5	385.9	358.8	283.6	261.8
45°	282.0	279.4	292.5	302.9	311.1	401.6	395.1	479.7	468.0	345.4	323.8
47.5°	318.3	315.7	330.7	365.7	413.4	511.4	549.7	677.4	637.6	475.1	426.1
50°	426.8	425.1	465.7	503.2	582.0	726.8	831.7	969.6	911.1	663.7	573.5
52.5°	529.4	534.6	582.0	654.2	737.6	999.0	1148.7	1245.4	1244.7	864.3	736.2
55°	602.9	620.6	676.4	806.8	922.5	1240.5	1442.4	1514.0	1574.1	1153.2	896.7
57.5°	745.7	776.4	830.0	959.1	1108.5	1532.6	1820.8	1809.1	1917.2	1452.9	1071.2
60°	892.5	928.4	946.4	1065.0	1261.1	1814.0	2081.0	2053.5	2162.3	1713.7	1254.9
62.5°	938.2	973.5	991.1	1120.2	1371.2	1973.5	2200.9	2211.7	2279.3	1899.6	1363.7
65°	967.0	1007.5	1033.0	1149.3	1368.9	2043.1	2298.0	2308.1	2350.6	1979.7	1419.9
67.5°	961.7	1007.2	1039.8	1144.1	1293.1	1985.2	2273.8	2228.0	2284.9	1922.5	1360.7
70°	857.8	897.4	930.0	1010.4	1079.4	1672.5	1967.2	1891.8	1950.6	1606.1	1123.5
72.5°	701.0	717.3	745.7	783.6	817.9	1240.8	1500.6	1435.9	1469.9	1204.9	841.8
75°	575.8	572.5	598.0	625.5	614.7	906.5	1187.2	1128.1	1159.8	915.0	671.5
77.5°	426.8	425.1	462.1	459.8	443.4	627.8	941.1	898.3	902.6	675.8	502.9
80°	256.5	261.4	297.4	304.6	285.3	393.8	671.9	651.6	621.2	461.7	352.6
82.5°	180.1	187.6	206.5	214.4	204.9	287.6	445.1	431.0	395.1	335.0	248.4
85°	183.7	185.0	187.2	187.9	183.7	258.2	345.4	337.6	335.3	280.7	204.9
87.5°	183.7	186.6	188.6	188.2	180.7	241.8	318.6	306.2	309.1	262.4	198.0
90°	164.7	169.9	169.6	170.6	164.4	218.6	288.9	278.7	282.7	236.6	180.1
92.5°	134.6	138.2	141.8	148.7	139.5	185.9	244.1	234.6	239.5	201.3	153.3
95°	125.2	128.4	130.7	134.3	125.2	165.4	216.0	204.6	206.5	170.9	129.7
97.5°	101.3	103.3	105.9	106.5	100.0	127.1	164.4	154.6	155.9	132.7	102.0
100°	85.0	86.6	88.9	88.9	84.6	105.2	130.1	124.8	124.2	108.5	86.3
102.5°	80.4	81.0	84.6	84.0	79.7	97.1	117.6	114.4	114.7	100.6	81.0
105°	79.1	79.1	82.7	81.0	77.4	92.5	110.1	109.1	108.8	95.7	77.8
107.5°	77.8	77.8	81.4	79.7	76.8	87.3	103.6	100.3	100.0	91.2	73.5
110°	72.5	73.5	77.4	75.5	73.2	82.3	95.1	92.8	92.8	85.9	70.3



REPORT NUMBER: P856217
 CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	64.4	65.0	68.6	67.0	65.4	73.2	84.3	81.4	81.7	77.1	65.7
115°	60.1	61.1	64.7	62.4	61.1	68.3	78.1	76.1	76.8	72.5	62.1
117.5°	60.5	60.8	63.4	63.7	61.1	67.0	72.2	72.9	73.9	71.2	63.1
120°	73.5	71.9	73.2	71.6	70.3	77.1	83.3	84.0	83.7	78.8	62.7
122.5°	74.2	70.9	74.5	72.2	70.9	78.4	85.3	86.9	85.3	81.0	64.0
125°	59.1	60.1	60.5	61.1	62.4	70.6	74.2	74.5	74.8	73.5	62.1
127.5°	52.0	51.6	50.0	50.3	53.3	60.5	63.1	65.0	63.7	63.1	55.9
130°	49.7	50.3	50.0	50.0	51.6	57.2	59.1	62.1	61.1	59.8	51.0
132.5°	45.7	46.4	49.3	52.9	52.3	54.2	54.9	57.8	58.2	58.2	51.3
135°	43.5	44.1	46.4	51.0	49.7	50.7	50.3	52.9	53.3	53.6	48.4
137.5°	44.4	44.8	43.5	44.1	45.1	49.3	50.7	53.3	53.3	52.0	45.1
140°	46.7	46.7	43.8	42.8	44.8	51.3	53.9	58.2	57.5	55.2	46.7
142.5°	43.1	43.8	45.4	47.4	51.6	69.6	69.6	77.8	80.4	81.0	56.5
145°	56.2	56.5	57.2	58.2	66.3	91.2	83.0	88.9	91.2	93.5	68.0
147.5°	64.7	65.4	64.7	62.1	69.6	78.1	74.2	76.8	79.4	80.1	68.3
150°	50.7	50.0	49.7	49.3	57.5	60.1	56.9	56.5	58.5	60.1	52.9
152.5°	36.9	36.6	36.3	35.9	43.1	41.5	39.2	39.2	39.9	40.2	37.3
155°	32.7	32.4	31.7	32.0	36.6	35.0	33.0	32.4	33.0	32.7	31.0
157.5°	26.8	26.1	26.1	27.4	29.7	27.8	26.5	25.5	25.8	25.5	25.8
160°	22.2	21.9	22.2	23.9	25.2	23.5	22.2	21.6	21.6	22.2	23.5
162.5°	19.9	19.6	19.9	20.6	21.2	19.6	18.6	18.6	19.0	20.3	22.9
165°	17.3	17.3	17.6	18.0	18.3	17.3	17.0	17.0	17.6	19.6	22.5
167.5°	16.7	16.7	16.7	16.7	16.7	16.3	16.0	17.0	17.6	18.6	20.6
170°	16.3	16.0	16.3	16.3	16.3	16.3	16.3	17.3	17.3	17.6	18.6
172.5°	16.7	16.7	16.7	17.0	17.6	18.0	17.6	18.3	18.0	18.0	18.0
175°	17.0	17.0	17.3	17.6	18.0	18.3	18.6	18.6	18.6	19.0	19.0
177.5°	17.0	17.0	17.3	17.6	18.0	17.3	16.7	16.3	16.0	16.0	16.0
180°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0



REPORT NUMBER: P856217

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3
2.5°	92.5	84.3	72.9	77.8	92.8	89.9	74.8	65.7	66.3	72.9	73.5
5°	53.9	55.6	63.1	78.8	81.7	67.6	54.6	52.6	63.4	78.4	81.4
7.5°	48.7	48.7	54.9	76.5	85.9	70.6	53.3	48.0	56.2	68.6	70.6
10°	58.8	56.9	57.5	65.4	69.0	56.5	47.7	45.4	50.0	51.6	51.0
12.5°	66.3	67.6	73.9	72.2	56.5	46.1	43.1	42.8	45.4	47.1	46.7
15°	71.2	69.0	64.4	59.1	53.9	48.0	43.8	41.2	38.2	36.9	36.9
17.5°	75.8	71.2	63.1	58.2	52.9	48.7	44.8	40.8	39.5	39.9	39.9
20°	81.4	75.8	68.3	62.7	56.5	50.7	45.7	41.5	40.5	40.8	40.5
22.5°	85.6	80.7	72.9	65.7	59.1	52.6	47.7	43.5	42.2	41.8	41.8
25°	90.8	86.6	78.4	69.6	61.8	55.6	51.3	46.4	44.1	43.5	43.5
27.5°	97.7	94.1	85.0	75.5	66.3	59.1	54.6	49.3	46.1	44.8	44.4
30°	108.2	103.3	93.1	81.4	71.9	64.4	58.8	52.3	48.4	46.1	45.7
32.5°	123.9	117.6	104.2	89.5	78.1	70.3	63.4	55.2	50.3	47.7	47.4
35°	157.2	150.3	133.3	112.7	96.1	80.1	69.3	58.5	52.3	49.0	48.7
37.5°	178.1	165.7	145.1	126.5	106.2	96.7	83.0	68.6	54.9	50.7	50.0
40°	208.5	192.5	166.7	141.5	105.9	105.6	96.4	83.7	64.7	53.6	52.6
42.5°	231.0	210.4	178.1	150.0	106.9	109.8	102.0	90.8	76.8	62.4	60.8
45°	277.1	251.0	199.7	157.5	108.2	114.7	106.9	95.1	82.7	72.5	71.6
47.5°	363.4	327.1	241.5	171.9	122.9	131.0	117.0	103.3	91.2	81.0	78.8
50°	484.0	440.5	292.1	184.6	148.0	166.7	143.8	122.9	108.5	100.6	98.4
52.5°	625.5	576.8	323.8	204.6	178.4	210.4	185.3	160.8	141.8	143.1	141.8
55°	783.3	725.8	351.6	234.6	217.3	259.1	231.7	210.4	200.3	228.7	230.4
57.5°	935.6	874.2	368.9	266.3	260.8	315.3	283.3	268.3	272.2	355.5	375.1
60°	1081.0	984.0	382.3	296.1	297.4	359.5	335.0	332.0	344.1	451.0	480.7
62.5°	1165.0	1040.2	381.7	315.3	320.2	386.6	365.0	366.7	375.8	466.6	491.5
65°	1222.2	1068.6	375.1	325.2	330.1	396.4	368.6	355.9	350.0	412.1	438.5
67.5°	1187.9	1013.7	359.5	316.7	323.2	380.7	346.1	314.0	303.9	337.6	353.3
70°	1004.2	847.0	320.2	287.9	292.1	321.2	291.8	256.9	246.7	264.4	271.6
72.5°	758.8	650.3	287.2	266.0	255.9	265.7	236.9	200.3	198.0	207.5	208.8
75°	606.2	510.4	261.8	239.9	212.7	222.9	188.2	149.0	146.1	146.7	143.5
77.5°	456.8	379.7	220.3	188.9	161.1	177.8	139.9	102.9	98.0	96.1	92.5
80°	312.7	263.7	149.7	126.5	114.4	130.4	99.7	75.5	75.2	74.5	70.6
82.5°	221.9	203.6	122.2	107.5	97.1	102.6	86.6	70.6	69.0	69.3	65.0
85°	194.1	184.3	118.0	108.8	98.7	98.4	82.7	66.0	65.4	65.7	61.8
87.5°	185.6	174.8	115.4	103.9	94.1	89.2	72.9	58.2	59.8	60.8	57.2
90°	166.3	155.2	104.6	92.8	83.3	74.8	61.8	52.6	55.2	55.9	52.6
92.5°	140.2	128.8	81.4	74.5	69.9	68.6	57.8	50.0	52.0	52.3	49.7
95°	118.6	108.2	70.9	65.7	62.4	62.1	52.3	45.4	46.4	46.1	43.8
97.5°	95.4	87.9	62.1	57.2	53.6	51.6	44.8	39.5	40.8	41.5	39.9
100°	81.4	77.1	57.8	53.6	49.3	46.7	40.8	36.6	37.9	39.2	37.9
102.5°	76.5	73.2	56.9	52.3	47.7	44.4	38.9	34.3	35.0	36.6	35.6
105°	72.5	69.6	55.2	50.3	46.1	42.5	37.9	32.4	32.0	33.7	33.3
107.5°	68.3	65.7	54.2	48.4	43.8	40.5	36.3	31.0	29.7	30.7	30.4
110°	66.0	63.4	52.3	46.1	41.2	38.2	34.3	30.1	28.4	28.8	28.8



REPORT NUMBER: P856217

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	61.4	58.5	48.0	42.2	38.2	35.6	31.7	28.8	26.8	27.4	27.8
115°	58.5	54.6	44.1	39.9	35.6	33.3	31.0	28.4	26.1	26.1	26.5
117.5°	60.5	52.9	41.2	37.9	35.6	35.0	34.3	30.4	25.8	25.5	25.5
120°	57.8	53.3	44.8	43.8	41.5	39.5	35.3	30.1	25.2	24.5	24.5
122.5°	56.5	55.6	50.7	47.4	43.1	39.2	33.0	27.4	24.2	23.5	23.5
125°	55.9	54.9	49.0	42.8	37.3	33.3	29.4	25.8	23.9	22.9	22.9
127.5°	51.3	46.7	39.5	35.9	32.4	30.7	27.4	25.2	22.9	21.6	21.6
130°	47.4	43.1	36.9	33.0	30.1	28.8	26.5	24.2	21.9	20.6	20.3
132.5°	46.7	42.5	35.9	31.0	28.4	27.1	25.8	23.2	20.6	19.3	19.0
135°	43.5	38.6	32.0	29.4	27.8	26.8	25.8	22.5	19.9	18.6	18.6
137.5°	40.2	35.3	30.4	29.1	27.8	26.8	23.9	20.6	18.6	17.6	17.6
140°	40.5	35.0	31.0	30.1	28.1	25.2	22.5	20.3	18.6	17.3	17.0
142.5°	43.1	36.3	31.4	28.4	27.1	25.5	24.5	21.9	18.6	16.3	15.7
145°	47.4	39.2	35.3	34.0	31.7	28.8	25.2	20.3	17.0	15.0	14.7
147.5°	52.3	44.1	39.5	35.9	31.4	26.5	21.6	17.6	15.0	14.4	14.1
150°	45.4	37.6	34.0	29.1	25.2	21.2	17.6	15.7	14.4	14.1	14.1
152.5°	34.3	28.1	25.2	22.9	20.6	18.6	16.7	15.4	14.4	13.7	13.7
155°	29.7	26.5	23.5	21.2	19.0	17.0	15.4	14.7	13.7	13.7	13.4
157.5°	26.1	24.5	20.6	18.6	17.0	16.0	15.4	14.4	14.1	13.7	13.7
160°	23.9	22.9	19.0	17.3	16.3	15.7	15.7	15.0	14.1	13.7	13.7
162.5°	23.2	22.2	18.3	16.7	15.7	16.0	16.7	16.3	15.0	14.4	14.4
165°	22.9	22.2	18.6	16.3	15.7	16.0	17.6	18.0	16.3	15.4	15.0
167.5°	20.9	20.6	19.6	18.0	17.0	17.0	18.0	18.3	17.6	17.6	17.3
170°	19.0	19.0	19.3	19.6	19.0	18.0	17.3	17.3	18.3	19.3	19.6
172.5°	18.3	18.6	19.3	20.3	20.3	19.0	18.0	17.6	18.6	19.9	20.3
175°	19.3	19.6	19.9	19.9	19.3	19.0	18.6	18.3	19.0	20.3	20.6
177.5°	16.0	16.0	16.3	16.3	16.0	16.3	16.0	15.4	15.4	15.4	15.4
180°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0

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: SP1-2406-133-4

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.

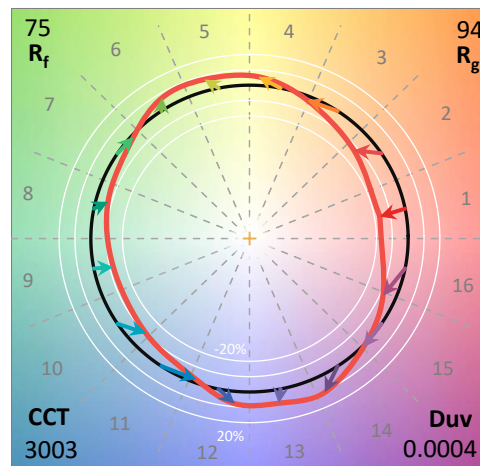
Test Information

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



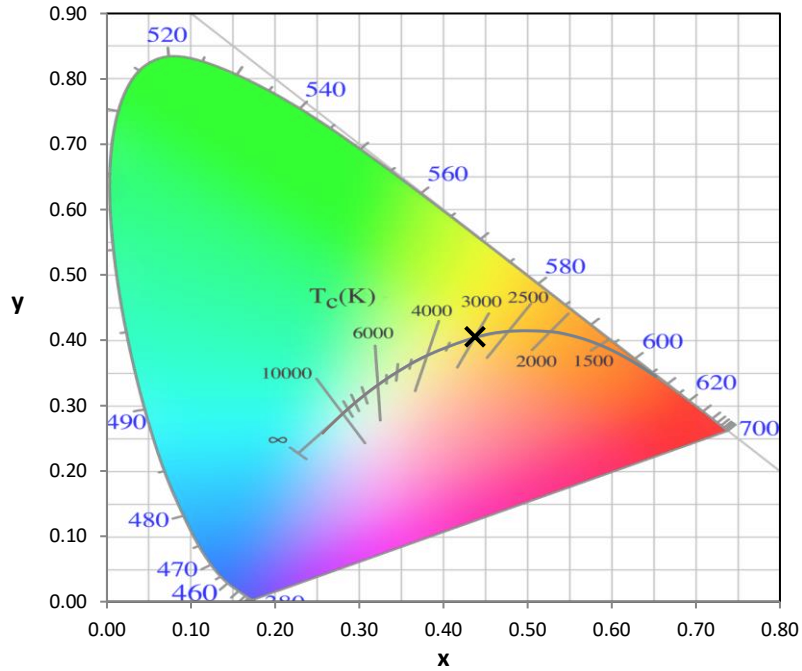
Test Conditions
 Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

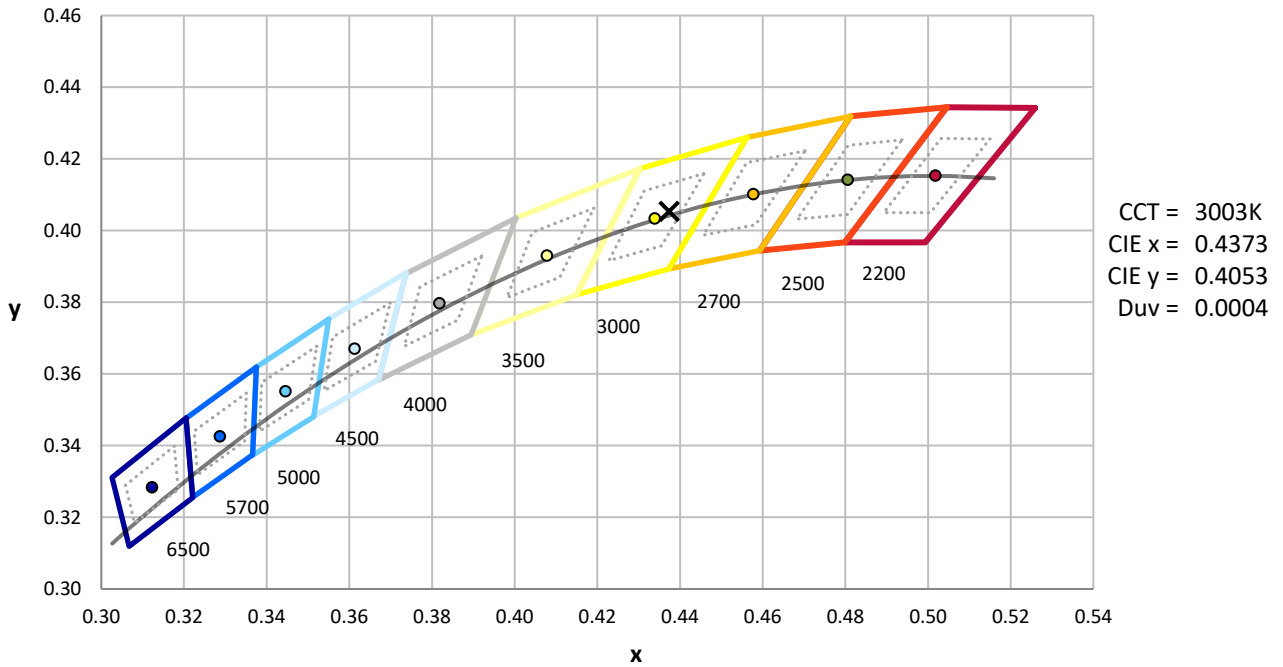
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

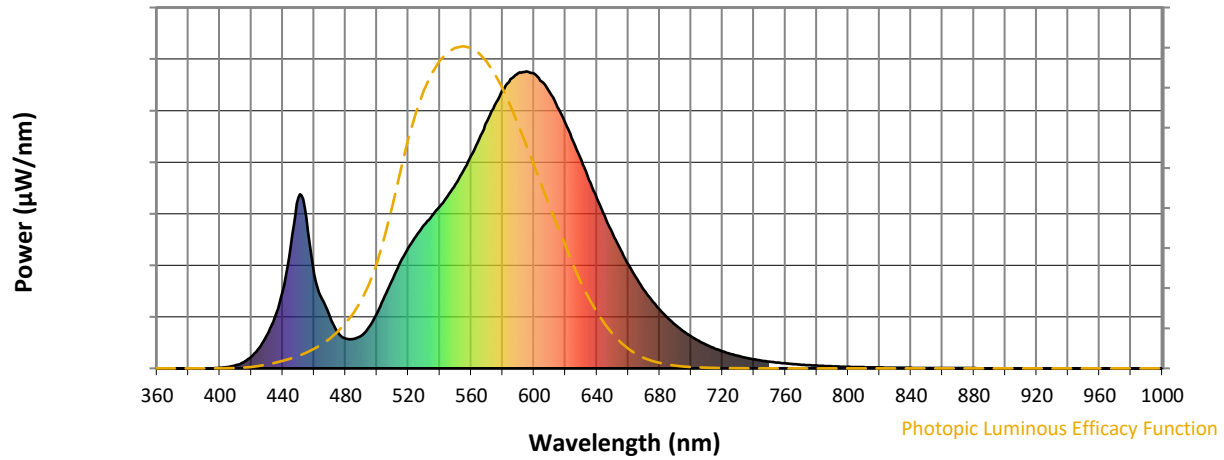


CCT = 3003K
CIE x = 0.4373
CIE y = 0.4053
Duv = 0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

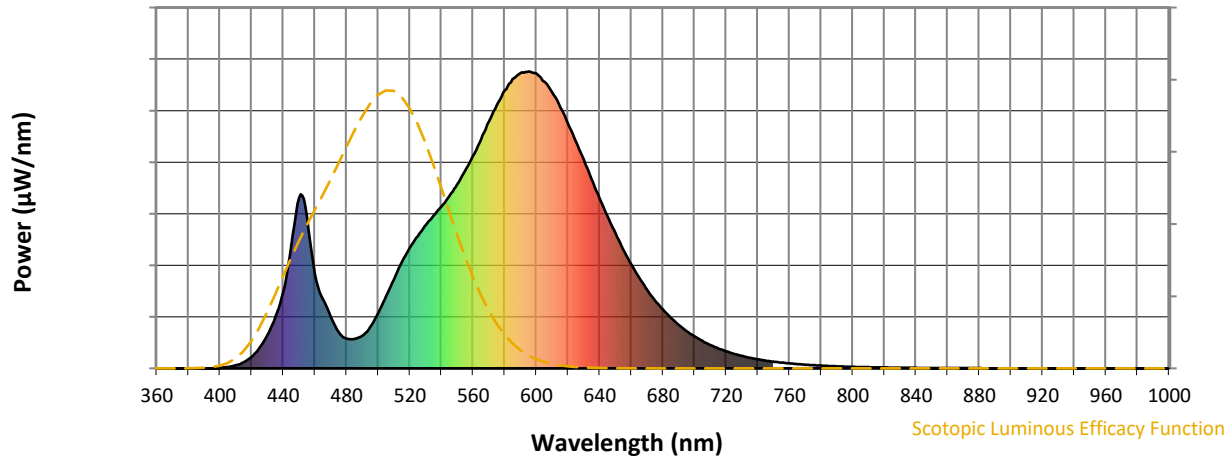


Photopic Lumens: NR

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



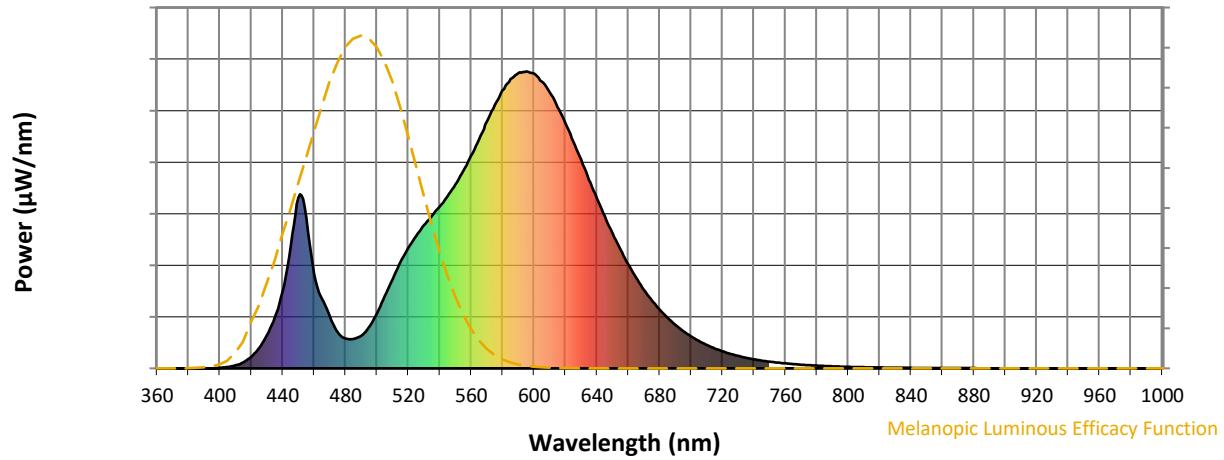
Scotopic Lumens: NR

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

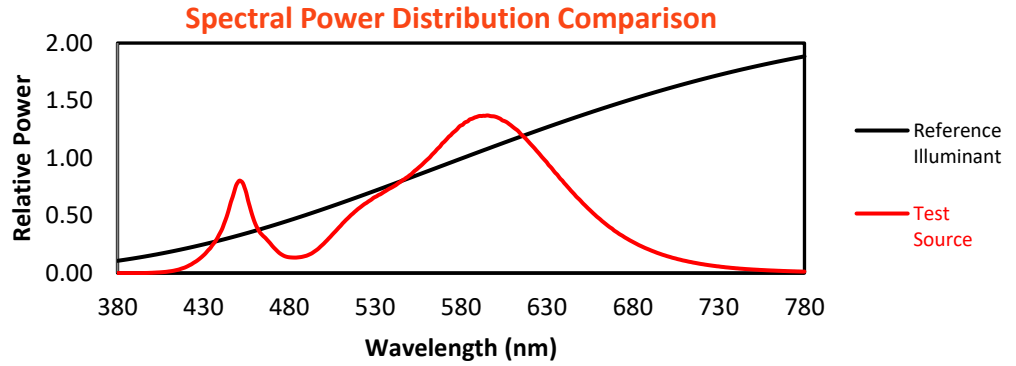
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186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

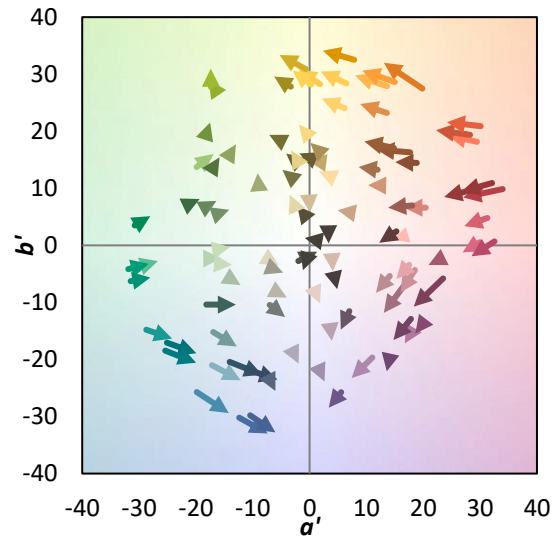
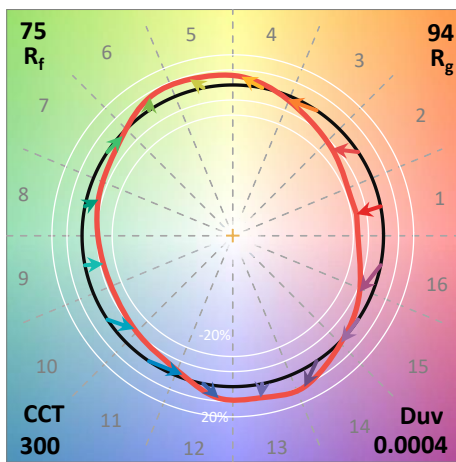
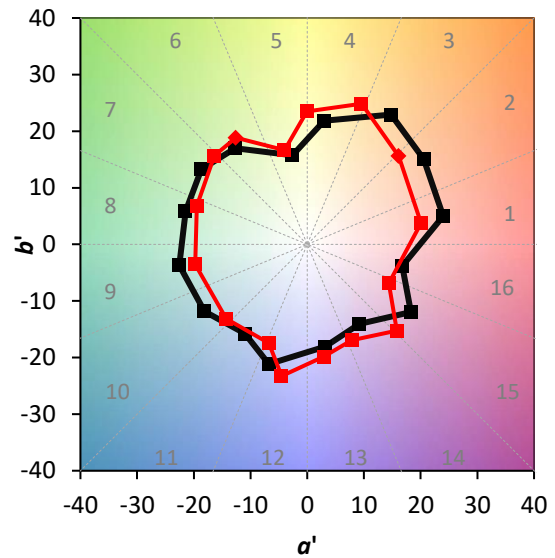
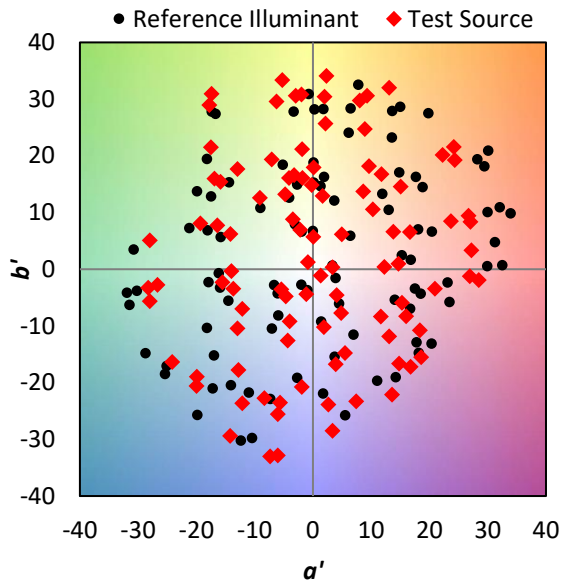
TM-30-18

Summary

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



Color Vector Graphics

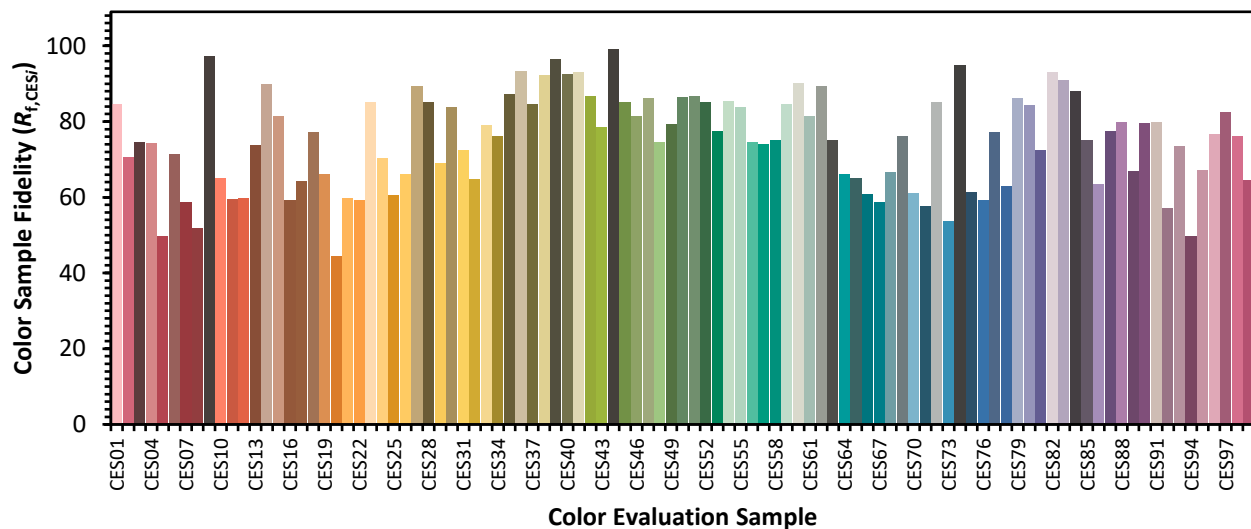


REPORT NUMBER: SP1-2406-133-4

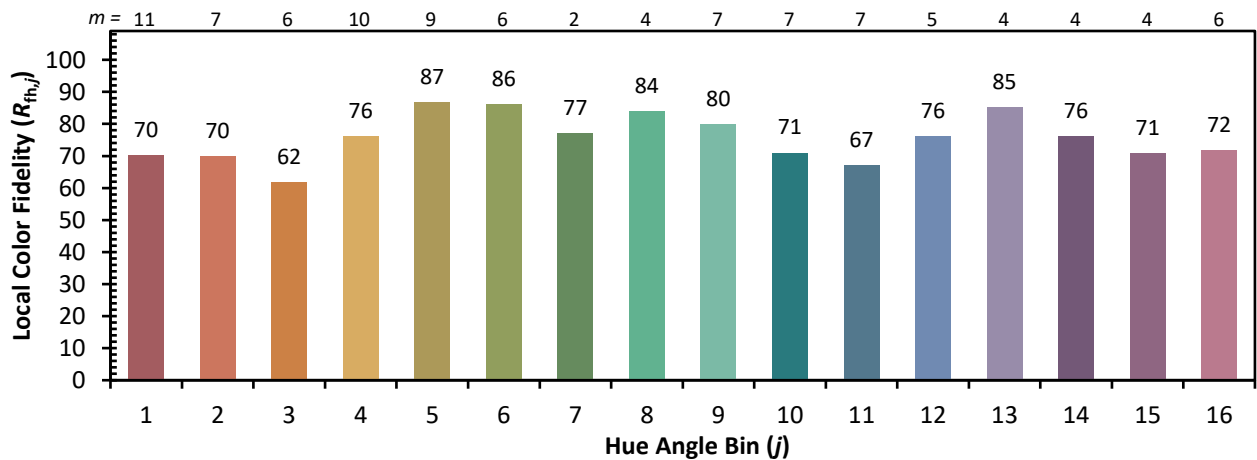
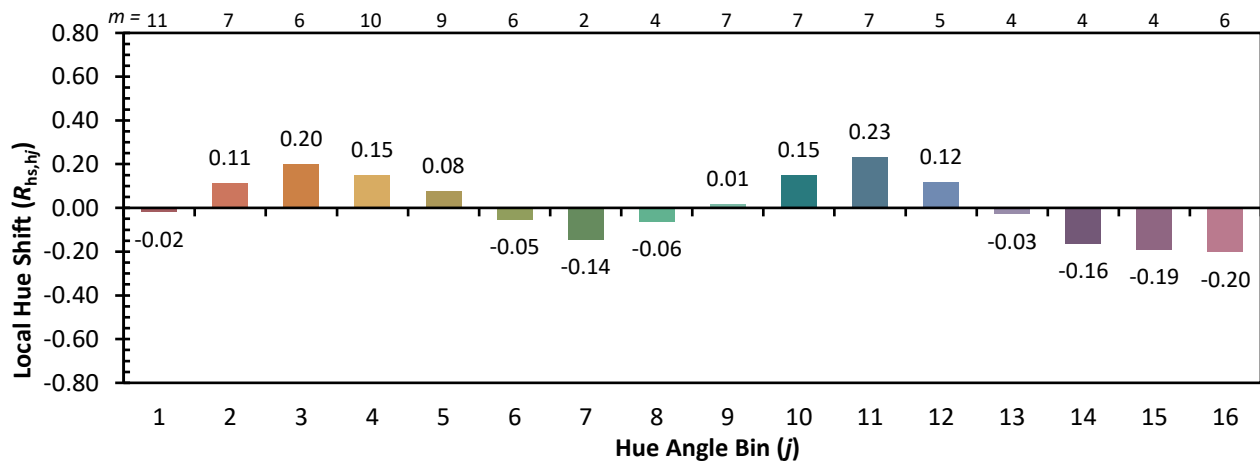
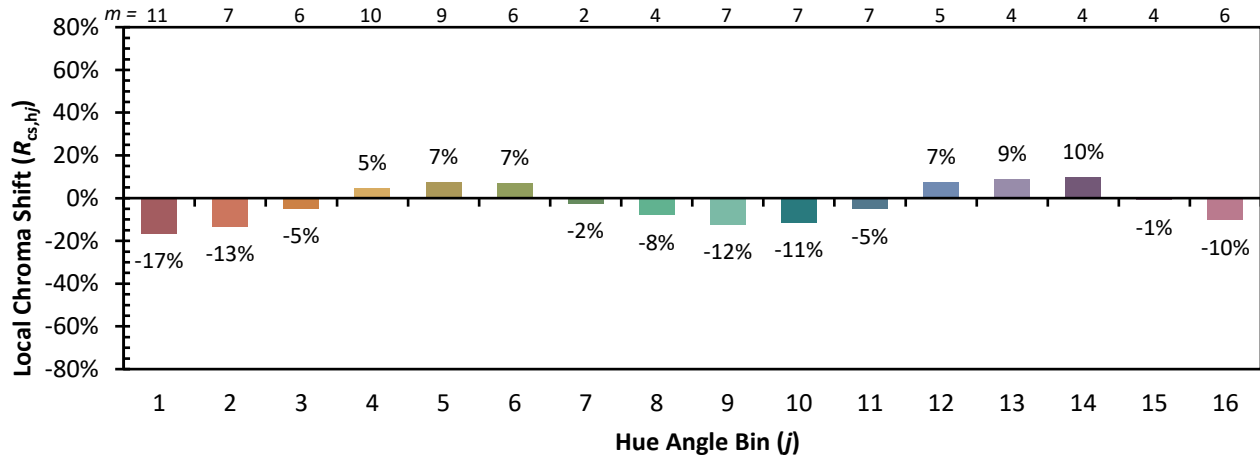
TM-30-18

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	



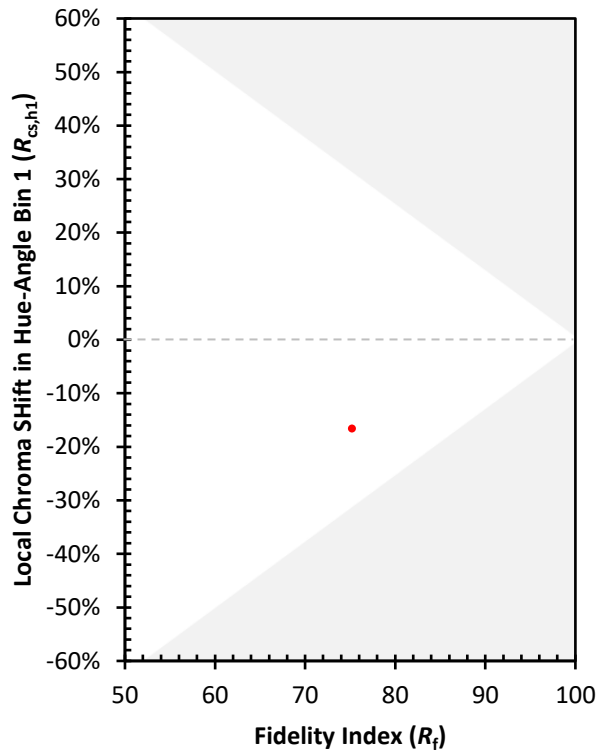
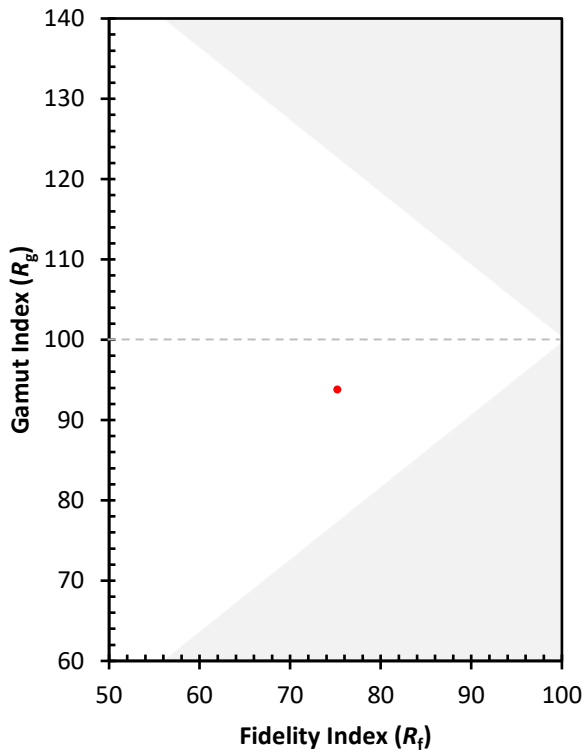
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)