

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: P856216

Luminaire Tested: **FFX-CLB-30-730-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856216
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-730-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

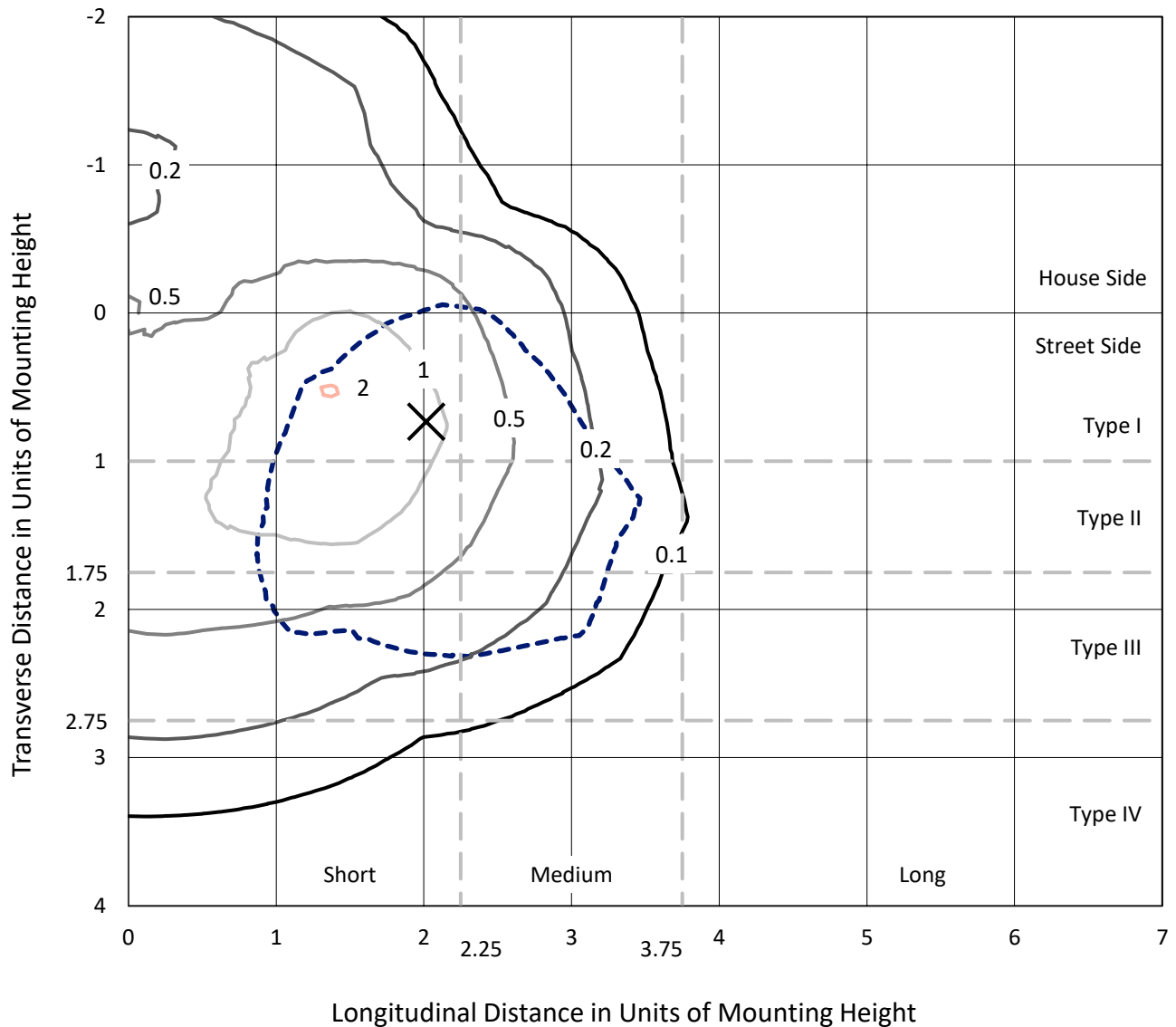
Lumens per Lamp: N/A
Luminaire Lumens: 4749.1 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 10.6%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856216
 CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

Iso-Footcandle Lines of Horizontal Illumination

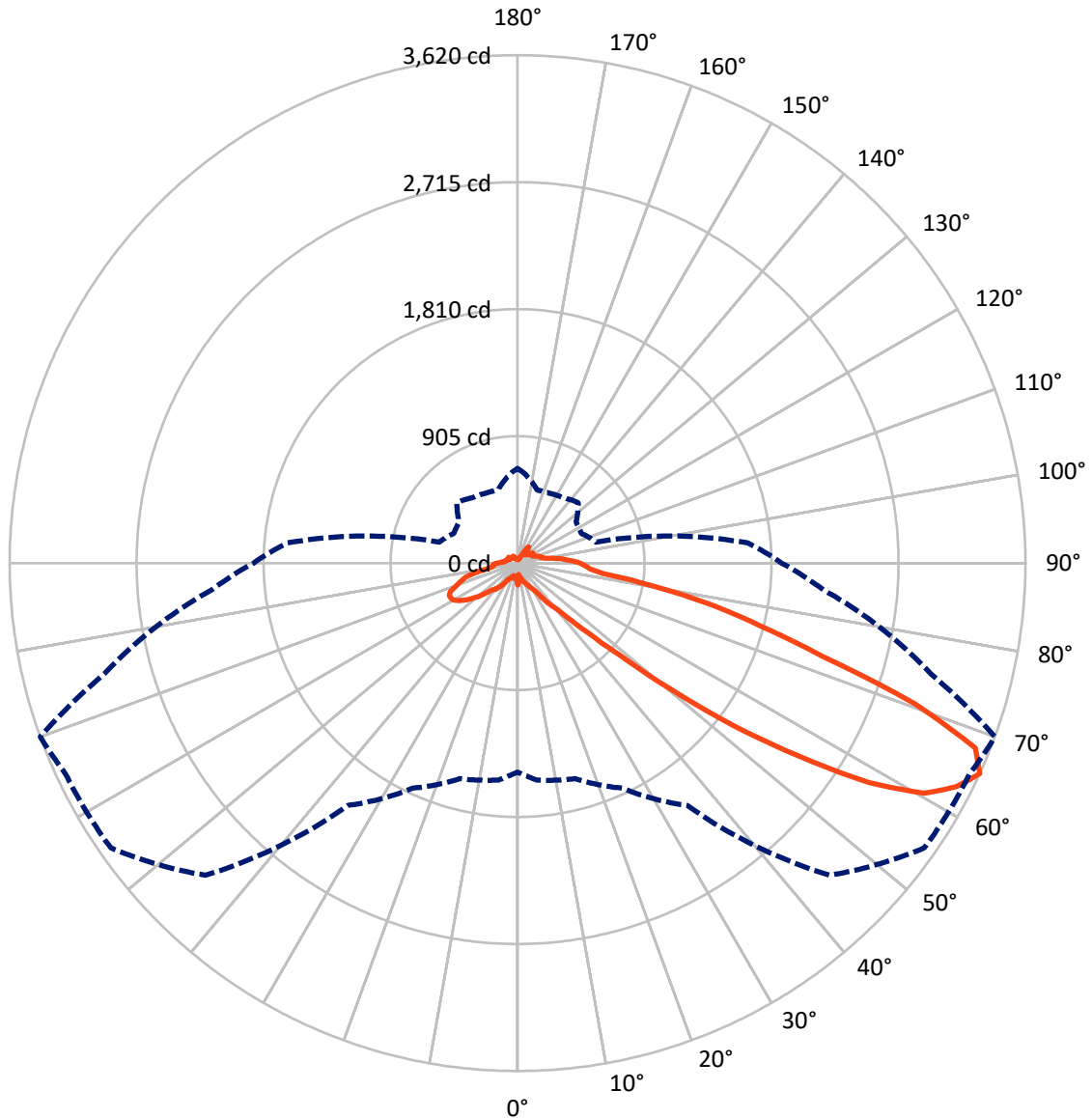
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P856216
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856216
 CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

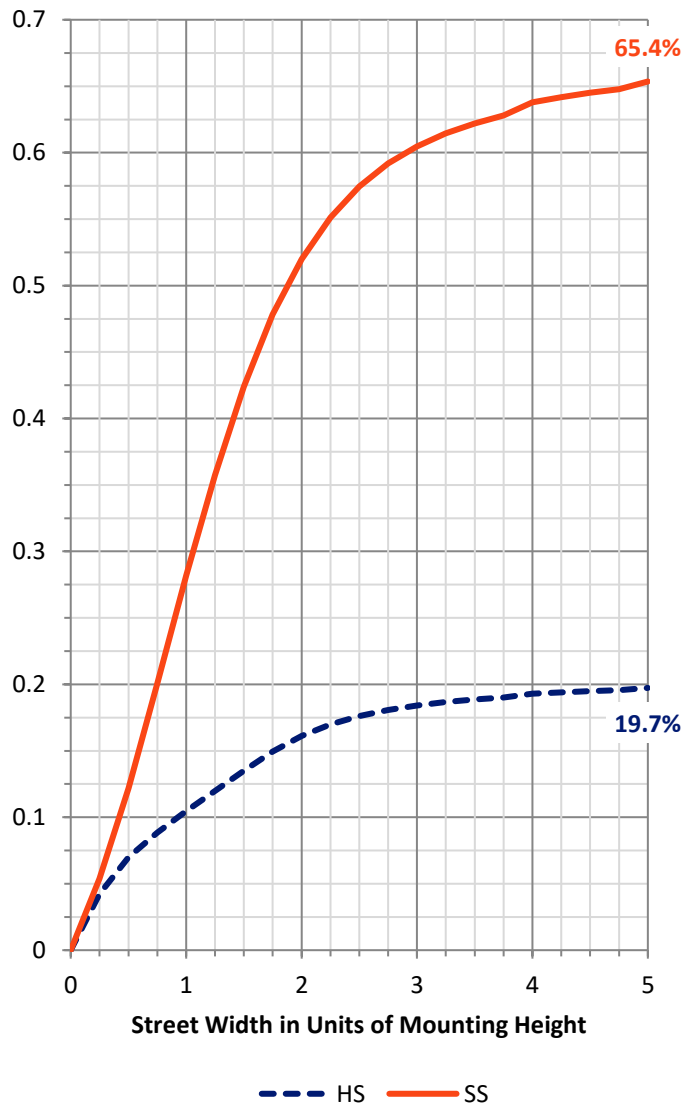
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.1	182.5	1156.5
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	3211.9	380.7	3592.6
	% Fixture	67.6	8.0	75.6
Total	Lumens	4185.9	563.2	4749.1
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.2
10°-20°	31.8	0.7
20°-30°	64.1	1.3
30°-40°	135.6	2.9
40°-50°	316.3	6.7
50°-60°	942.5	19.8
60°-70°	1510.3	31.8
70°-80°	867.6	18.3
80°-90°	307.7	6.5
90°-100°	181.5	3.8
100°-110°	109.6	2.3
110°-120°	82.4	1.7
120°-130°	69.8	1.5
130°-140°	46.3	1.0
140°-150°	43.5	0.9
150°-160°	19.3	0.4
160°-170°	8.0	0.2
170°-180°	2.6	0.1
0°-90°	4185.9	88.1
0°-180°	4749.1	100.0

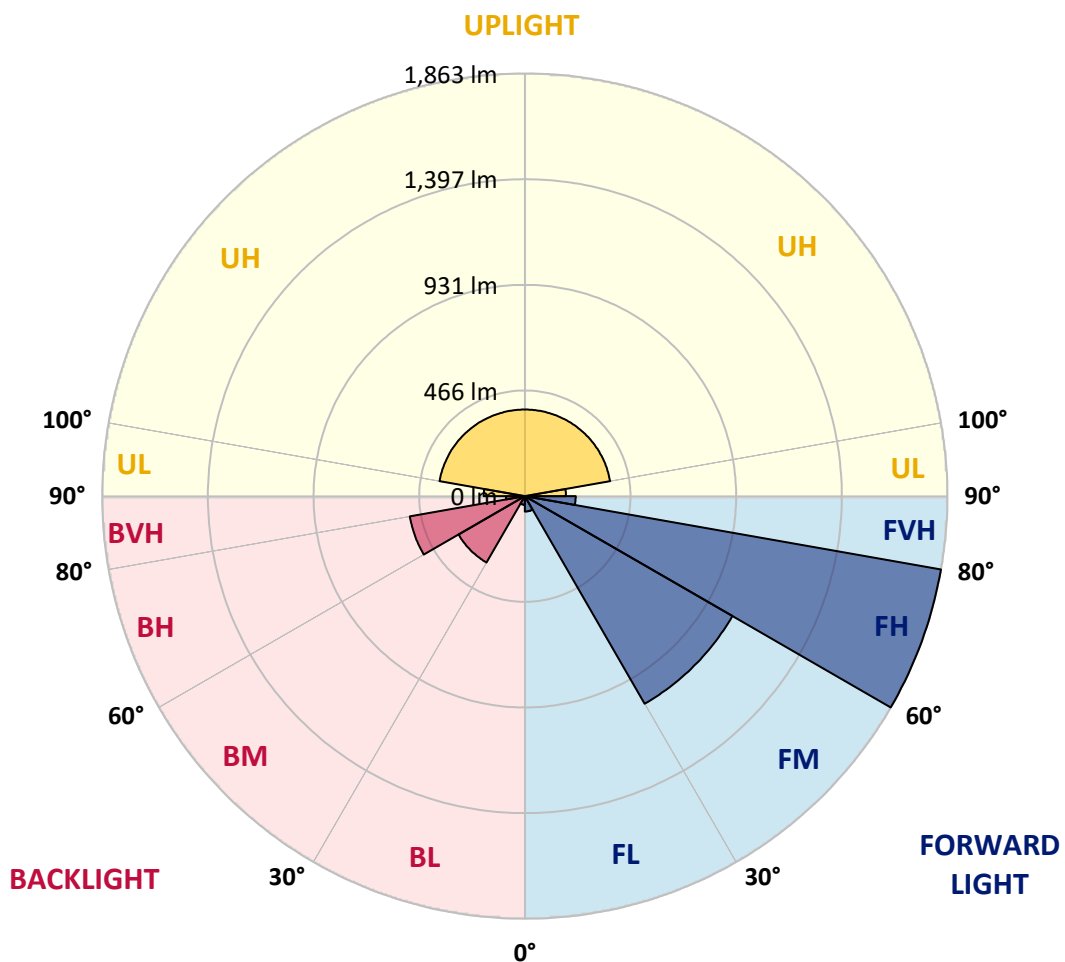


REPORT NUMBER: P856216
 CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	68.0	1.4			
FM (30°-60°)	1056.7	22.3			
FH (60°-80°)	1863.0	39.2			G2/5000
FVH (80°-90°)	224.1	4.7			G2/225
BL (0°-30°)	38.0	0.8	B0/110		
BM (30°-60°)	337.7	7.1	B1/1000		
BH (60°-80°)	514.8	10.8	B2/1000		G2/1000
BVH (80°-90°)	83.6	1.8			G1/100
UL (90°-100°)	181.5	3.8		U3/500	
UH (100°-180°)	381.7	8.0		U3/500	

BUG Rating: B2-U3-G2
 Type III Short





REPORT NUMBER: P856216

CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5
2.5°	131.4	130.4	132.9	134.9	137.4	133.9	127.8	133.9	135.9	141.9	146.5
5°	111.7	112.2	114.8	120.3	125.3	124.3	108.7	88.6	82.5	80.0	80.5
7.5°	110.7	110.2	108.7	108.2	111.2	122.3	120.8	106.2	95.1	85.6	76.0
10°	116.8	118.3	119.8	119.8	117.8	110.7	110.2	109.2	105.2	100.7	94.6
12.5°	144.4	146.5	148.0	142.9	136.4	129.3	123.8	114.8	110.7	108.2	103.7
15°	174.6	176.7	174.1	164.6	153.0	139.9	134.9	135.4	129.9	123.3	113.7
17.5°	190.8	189.7	179.2	168.1	159.0	149.0	141.9	137.4	135.4	132.9	123.3
20°	180.7	178.2	171.6	167.1	166.1	160.6	156.0	152.0	149.5	143.9	132.4
22.5°	173.1	173.1	172.1	171.1	177.2	174.6	172.6	167.1	163.6	156.5	139.4
25°	182.7	182.7	183.2	181.7	189.7	189.7	189.7	183.7	179.2	169.1	148.5
27.5°	196.3	195.8	197.3	196.3	203.3	204.8	207.9	203.3	196.8	184.7	158.5
30°	210.9	210.9	212.4	213.4	220.4	224.0	227.5	225.5	217.4	202.8	175.7
32.5°	226.5	226.0	230.5	235.5	239.6	246.1	247.6	252.7	244.6	227.5	200.8
35°	249.1	250.6	262.7	273.3	284.9	288.9	295.9	315.6	307.5	284.4	253.7
37.5°	360.4	352.8	349.8	337.7	336.2	359.9	368.4	387.0	370.9	339.7	292.9
40°	382.0	372.9	368.9	357.3	361.4	410.2	401.6	468.6	429.3	379.5	349.3
42.5°	359.9	358.4	405.7	414.7	409.7	487.2	470.6	594.4	552.6	436.9	403.1
45°	434.3	430.3	450.5	466.6	479.1	618.6	608.5	738.8	720.7	532.0	498.8
47.5°	490.2	486.2	509.3	563.2	636.7	787.7	846.6	1043.3	981.9	731.8	656.3
50°	657.3	654.8	717.2	775.1	896.4	1119.3	1280.9	1493.3	1403.2	1022.2	883.3
52.5°	815.3	823.4	896.4	1007.6	1135.9	1538.6	1769.1	1918.1	1917.1	1331.2	1133.9
55°	928.6	955.8	1041.8	1242.6	1420.8	1910.5	2221.6	2331.8	2424.4	1776.1	1381.1
57.5°	1148.5	1195.8	1278.4	1477.2	1707.2	2360.5	2804.4	2786.3	2952.9	2237.7	1649.8
60°	1374.5	1429.9	1457.6	1640.3	1942.2	2793.8	3205.0	3162.7	3330.3	2639.3	1932.7
62.5°	1445.0	1499.3	1526.5	1725.3	2111.8	3039.4	3389.7	3406.3	3510.5	2925.7	2100.3
65°	1489.3	1551.7	1590.9	1770.1	2108.3	3146.6	3539.2	3554.8	3620.2	3049.0	2186.8
67.5°	1481.2	1551.2	1601.5	1762.1	1991.6	3057.6	3502.0	3431.5	3519.1	2960.9	2095.7
70°	1321.2	1382.1	1432.4	1556.2	1662.4	2575.9	3029.9	2913.6	3004.2	2473.7	1730.3
72.5°	1079.6	1104.7	1148.5	1206.9	1259.8	1911.0	2311.2	2211.5	2263.8	1855.7	1296.5
75°	886.8	881.8	921.0	963.3	946.7	1396.2	1828.5	1737.4	1786.2	1409.2	1034.3
77.5°	657.3	654.8	711.7	708.1	683.0	966.8	1449.5	1383.6	1390.1	1040.8	774.6
80°	395.1	402.6	458.0	469.1	439.4	606.5	1034.8	1003.6	956.8	711.2	543.1
82.5°	277.3	288.9	318.1	330.2	315.6	442.9	685.5	663.9	608.5	515.9	382.5
85°	282.9	284.9	288.4	289.4	282.9	397.6	532.0	519.9	516.4	432.3	315.6
87.5°	282.9	287.4	290.4	289.9	278.3	372.4	490.7	471.6	476.1	404.2	305.0
90°	253.7	261.7	261.2	262.7	253.2	336.7	444.9	429.3	435.4	364.4	277.3
92.5°	207.4	212.9	218.4	229.0	214.9	286.4	376.0	361.4	368.9	310.0	236.0
95°	192.8	197.8	201.3	206.9	192.8	254.7	332.7	315.1	318.1	263.2	199.8
97.5°	156.0	159.0	163.1	164.1	154.0	195.8	253.2	238.1	240.1	204.3	157.0
100°	130.9	133.4	136.9	136.9	130.4	162.1	200.3	192.3	191.3	167.1	132.9
102.5°	123.8	124.8	130.4	129.3	122.8	149.5	181.2	176.2	176.7	155.0	124.8
105°	121.8	121.8	127.3	124.8	119.3	142.4	169.6	168.1	167.6	147.5	119.8
107.5°	119.8	119.8	125.3	122.8	118.3	134.4	159.5	154.5	154.0	140.4	113.2
110°	111.7	113.2	119.3	116.3	112.7	126.8	146.5	142.9	142.9	132.4	108.2



REPORT NUMBER: P856216
 CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	99.2	100.2	105.7	103.2	100.7	112.7	129.9	125.3	125.8	118.8	101.2
115°	92.6	94.1	99.7	96.1	94.1	105.2	120.3	117.3	118.3	111.7	95.6
117.5°	93.1	93.6	97.6	98.1	94.1	103.2	111.2	112.2	113.7	109.7	97.1
120°	113.2	110.7	112.7	110.2	108.2	118.8	128.3	129.3	128.8	121.3	96.6
122.5°	114.2	109.2	114.8	111.2	109.2	120.8	131.4	133.9	131.4	124.8	98.6
125°	91.1	92.6	93.1	94.1	96.1	108.7	114.2	114.8	115.3	113.2	95.6
127.5°	80.0	79.5	77.0	77.5	82.0	93.1	97.1	100.2	98.1	97.1	86.1
130°	76.5	77.5	77.0	77.0	79.5	88.1	91.1	95.6	94.1	92.1	78.5
132.5°	70.5	71.5	76.0	81.5	80.5	83.5	84.6	89.1	89.6	89.6	79.0
135°	66.9	67.9	71.5	78.5	76.5	78.0	77.5	81.5	82.0	82.5	74.5
137.5°	68.4	69.0	66.9	67.9	69.5	76.0	78.0	82.0	82.0	80.0	69.5
140°	72.0	72.0	67.4	65.9	69.0	79.0	83.0	89.6	88.6	85.1	72.0
142.5°	66.4	67.4	70.0	73.0	79.5	107.2	107.2	119.8	123.8	124.8	87.1
145°	86.6	87.1	88.1	89.6	102.2	140.4	127.8	136.9	140.4	143.9	104.7
147.5°	99.7	100.7	99.7	95.6	107.2	120.3	114.2	118.3	122.3	123.3	105.2
150°	78.0	77.0	76.5	76.0	88.6	92.6	87.6	87.1	90.1	92.6	81.5
152.5°	56.9	56.4	55.9	55.4	66.4	63.9	60.4	60.4	61.4	61.9	57.4
155°	50.3	49.8	48.8	49.3	56.4	53.9	50.8	49.8	50.8	50.3	47.8
157.5°	41.3	40.3	40.3	42.3	45.8	42.8	40.8	39.3	39.8	39.3	39.8
160°	34.2	33.7	34.2	36.7	38.8	36.2	34.2	33.2	33.2	34.2	36.2
162.5°	30.7	30.2	30.7	31.7	32.7	30.2	28.7	28.7	29.2	31.2	35.2
165°	26.7	26.7	27.2	27.7	28.2	26.7	26.2	26.2	27.2	30.2	34.7
167.5°	25.7	25.7	25.7	25.7	25.7	25.2	24.7	26.2	27.2	28.7	31.7
170°	25.2	24.7	25.2	25.2	25.2	25.2	25.2	26.7	26.7	27.2	28.7
172.5°	25.7	25.7	25.7	26.2	27.2	27.7	27.2	28.2	27.7	27.7	27.7
175°	26.2	26.2	26.7	27.2	27.7	28.2	28.7	28.7	28.7	29.2	29.2
177.5°	26.2	26.2	26.7	27.2	27.7	26.7	25.7	25.2	24.7	24.7	24.7
180°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2



REPORT NUMBER: P856216

CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.5
2.5°	142.4	129.9	112.2	119.8	142.9	138.4	115.3	101.2	102.2	112.2	113.2
5°	83.0	85.6	97.1	121.3	125.8	104.2	84.1	81.0	97.6	120.8	125.3
7.5°	75.0	75.0	84.6	117.8	132.4	108.7	82.0	74.0	86.6	105.7	108.7
10°	90.6	87.6	88.6	100.7	106.2	87.1	73.5	70.0	77.0	79.5	78.5
12.5°	102.2	104.2	113.7	111.2	87.1	71.0	66.4	65.9	70.0	72.5	72.0
15°	109.7	106.2	99.2	91.1	83.0	74.0	67.4	63.4	58.9	56.9	56.9
17.5°	116.8	109.7	97.1	89.6	81.5	75.0	69.0	62.9	60.9	61.4	61.4
20°	125.3	116.8	105.2	96.6	87.1	78.0	70.5	63.9	62.4	62.9	62.4
22.5°	131.9	124.3	112.2	101.2	91.1	81.0	73.5	66.9	64.9	64.4	64.4
25°	139.9	133.4	120.8	107.2	95.1	85.6	79.0	71.5	67.9	66.9	66.9
27.5°	150.5	145.0	130.9	116.3	102.2	91.1	84.1	76.0	71.0	69.0	68.4
30°	166.6	159.0	143.4	125.3	110.7	99.2	90.6	80.5	74.5	71.0	70.5
32.5°	190.8	181.2	160.6	137.9	120.3	108.2	97.6	85.1	77.5	73.5	73.0
35°	242.1	231.5	205.3	173.6	148.0	123.3	106.7	90.1	80.5	75.5	75.0
37.5°	274.3	255.2	223.5	194.8	163.6	149.0	127.8	105.7	84.6	78.0	77.0
40°	321.1	296.4	256.7	217.9	163.1	162.6	148.5	128.8	99.7	82.5	81.0
42.5°	355.8	324.1	274.3	231.0	164.6	169.1	157.0	139.9	118.3	96.1	93.6
45°	426.8	386.5	307.5	242.6	166.6	176.7	164.6	146.5	127.3	111.7	110.2
47.5°	559.7	503.8	371.9	264.7	189.2	201.8	180.2	159.0	140.4	124.8	121.3
50°	745.4	678.4	450.0	284.4	228.0	256.7	221.5	189.2	167.1	155.0	151.5
52.5°	963.3	888.3	498.8	315.1	274.8	324.1	285.4	247.6	218.4	220.4	218.4
55°	1206.4	1117.8	541.6	361.4	334.7	399.1	356.8	324.1	308.5	352.3	354.8
57.5°	1440.9	1346.3	568.2	410.2	401.6	485.7	436.4	413.2	419.2	547.6	577.8
60°	1664.9	1515.4	588.9	456.0	458.0	553.6	515.9	511.4	530.0	694.6	740.4
62.5°	1794.3	1602.0	587.9	485.7	493.2	595.4	562.2	564.7	578.8	718.7	757.0
65°	1882.3	1645.8	577.8	500.8	508.3	610.5	567.7	548.1	539.0	634.7	675.4
67.5°	1829.5	1561.2	553.6	487.7	497.8	586.3	533.0	483.7	468.1	519.9	544.1
70°	1546.6	1304.6	493.2	443.4	450.0	494.7	449.4	395.6	380.0	407.2	418.2
72.5°	1168.7	1001.6	442.4	409.7	394.1	409.2	364.9	308.5	305.0	319.6	321.6
75°	933.6	786.2	403.1	369.4	327.6	343.3	289.9	229.5	225.0	226.0	220.9
77.5°	703.6	584.8	339.2	290.9	248.1	273.8	215.4	158.5	151.0	148.0	142.4
80°	481.7	406.2	230.5	194.8	176.2	200.8	153.5	116.3	115.8	114.8	108.7
82.5°	341.7	313.6	188.2	165.6	149.5	158.0	133.4	108.7	106.2	106.7	100.2
85°	299.0	283.9	181.7	167.6	152.0	151.5	127.3	101.7	100.7	101.2	95.1
87.5°	285.9	269.3	177.7	160.0	145.0	137.4	112.2	89.6	92.1	93.6	88.1
90°	256.2	239.1	161.1	142.9	128.3	115.3	95.1	81.0	85.1	86.1	81.0
92.5°	215.9	198.3	125.3	114.8	107.7	105.7	89.1	77.0	80.0	80.5	76.5
95°	182.7	166.6	109.2	101.2	96.1	95.6	80.5	70.0	71.5	71.0	67.4
97.5°	147.0	135.4	95.6	88.1	82.5	79.5	69.0	60.9	62.9	63.9	61.4
100°	125.3	118.8	89.1	82.5	76.0	72.0	62.9	56.4	58.4	60.4	58.4
102.5°	117.8	112.7	87.6	80.5	73.5	68.4	59.9	52.8	53.9	56.4	54.9
105°	111.7	107.2	85.1	77.5	71.0	65.4	58.4	49.8	49.3	51.8	51.3
107.5°	105.2	101.2	83.5	74.5	67.4	62.4	55.9	47.8	45.8	47.3	46.8
110°	101.7	97.6	80.5	71.0	63.4	58.9	52.8	46.3	43.8	44.3	44.3



REPORT NUMBER: P856216

CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	94.6	90.1	74.0	64.9	58.9	54.9	48.8	44.3	41.3	42.3	42.8
115°	90.1	84.1	67.9	61.4	54.9	51.3	47.8	43.8	40.3	40.3	40.8
117.5°	93.1	81.5	63.4	58.4	54.9	53.9	52.8	46.8	39.8	39.3	39.3
120°	89.1	82.0	69.0	67.4	63.9	60.9	54.4	46.3	38.8	37.7	37.7
122.5°	87.1	85.6	78.0	73.0	66.4	60.4	50.8	42.3	37.2	36.2	36.2
125°	86.1	84.6	75.5	65.9	57.4	51.3	45.3	39.8	36.7	35.2	35.2
127.5°	79.0	72.0	60.9	55.4	49.8	47.3	42.3	38.8	35.2	33.2	33.2
130°	73.0	66.4	56.9	50.8	46.3	44.3	40.8	37.2	33.7	31.7	31.2
132.5°	72.0	65.4	55.4	47.8	43.8	41.8	39.8	35.7	31.7	29.7	29.2
135°	66.9	59.4	49.3	45.3	42.8	41.3	39.8	34.7	30.7	28.7	28.7
137.5°	61.9	54.4	46.8	44.8	42.8	41.3	36.7	31.7	28.7	27.2	27.2
140°	62.4	53.9	47.8	46.3	43.3	38.8	34.7	31.2	28.7	26.7	26.2
142.5°	66.4	55.9	48.3	43.8	41.8	39.3	37.7	33.7	28.7	25.2	24.2
145°	73.0	60.4	54.4	52.3	48.8	44.3	38.8	31.2	26.2	23.2	22.6
147.5°	80.5	67.9	60.9	55.4	48.3	40.8	33.2	27.2	23.2	22.1	21.6
150°	70.0	57.9	52.3	44.8	38.8	32.7	27.2	24.2	22.1	21.6	21.6
152.5°	52.8	43.3	38.8	35.2	31.7	28.7	25.7	23.7	22.1	21.1	21.1
155°	45.8	40.8	36.2	32.7	29.2	26.2	23.7	22.6	21.1	21.1	20.6
157.5°	40.3	37.7	31.7	28.7	26.2	24.7	23.7	22.1	21.6	21.1	21.1
160°	36.7	35.2	29.2	26.7	25.2	24.2	24.2	23.2	21.6	21.1	21.1
162.5°	35.7	34.2	28.2	25.7	24.2	24.7	25.7	25.2	23.2	22.1	22.1
165°	35.2	34.2	28.7	25.2	24.2	24.7	27.2	27.7	25.2	23.7	23.2
167.5°	32.2	31.7	30.2	27.7	26.2	26.2	27.7	28.2	27.2	27.2	26.7
170°	29.2	29.2	29.7	30.2	29.2	27.7	26.7	26.7	28.2	29.7	30.2
172.5°	28.2	28.7	29.7	31.2	31.2	29.2	27.7	27.2	28.7	30.7	31.2
175°	29.7	30.2	30.7	30.7	29.7	29.2	28.7	28.2	29.2	31.2	31.7
177.5°	24.7	24.7	25.2	25.2	24.7	25.2	24.7	23.7	23.7	23.7	23.7
180°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2

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.

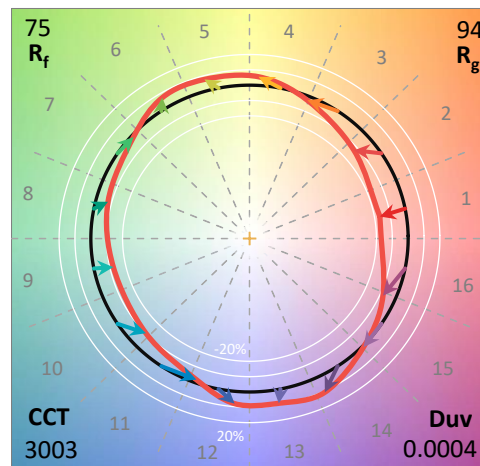
Test Information

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

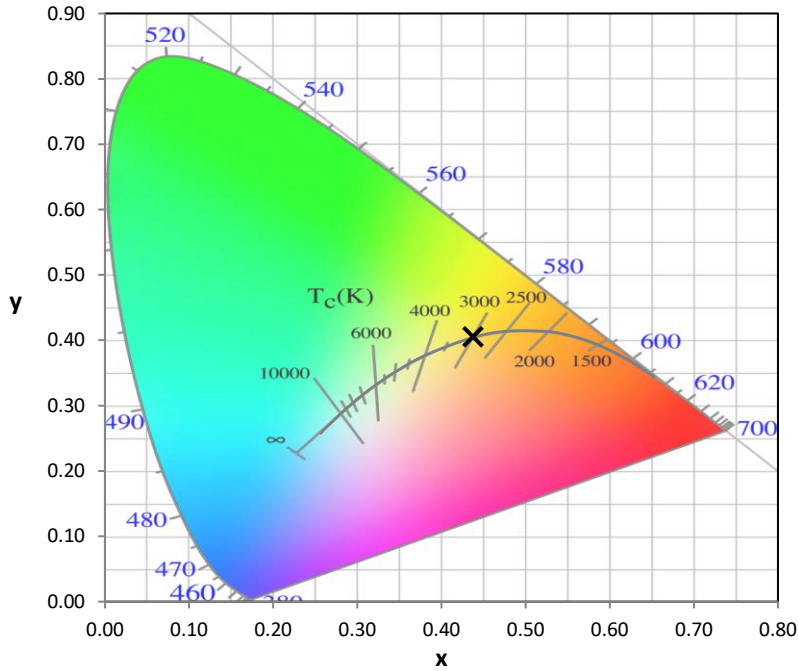
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

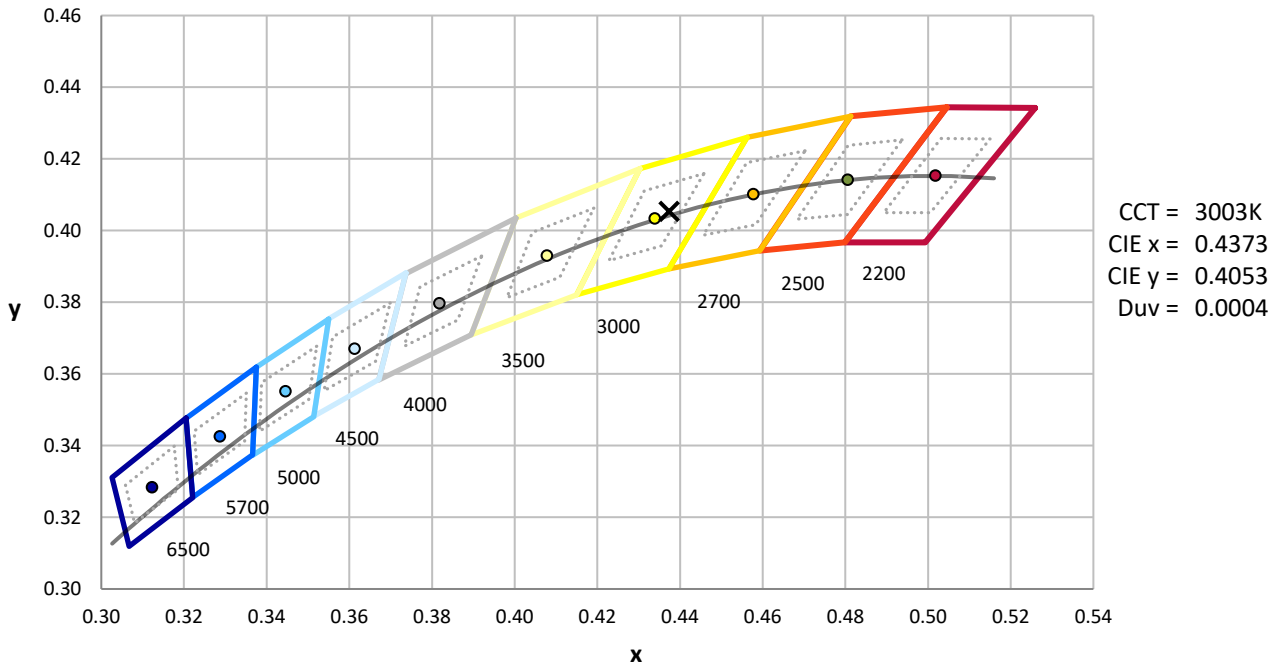
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



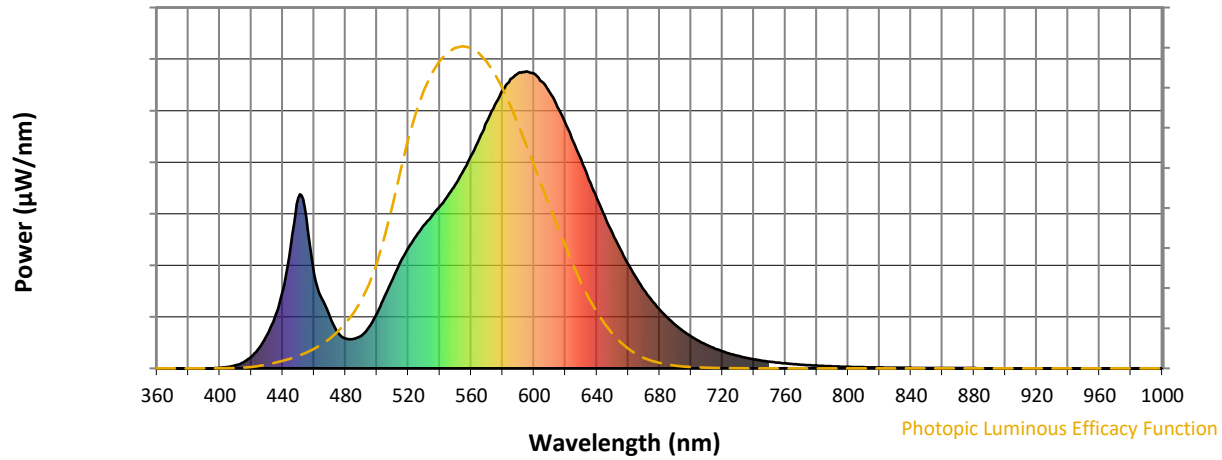
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

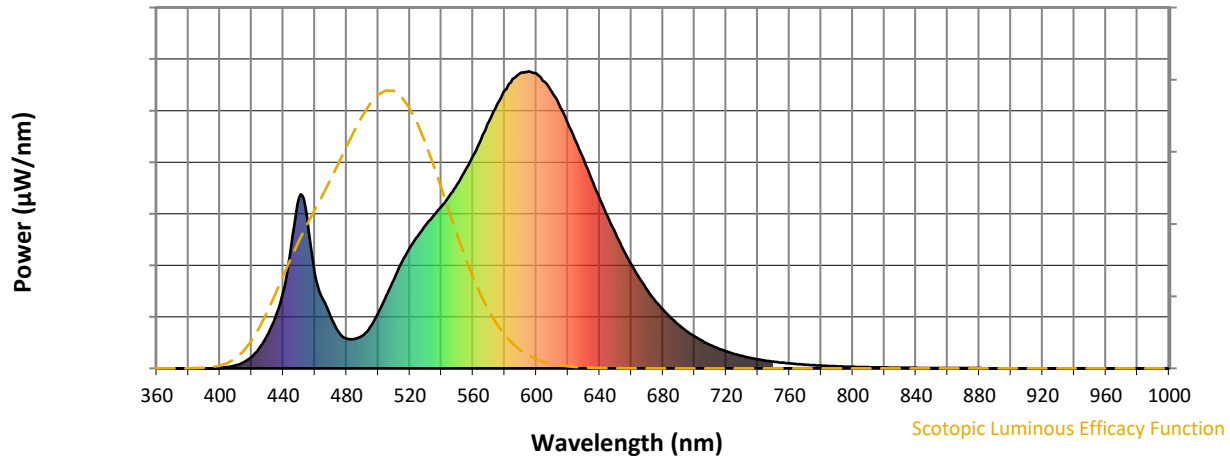


Photopic Lumens: NR

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



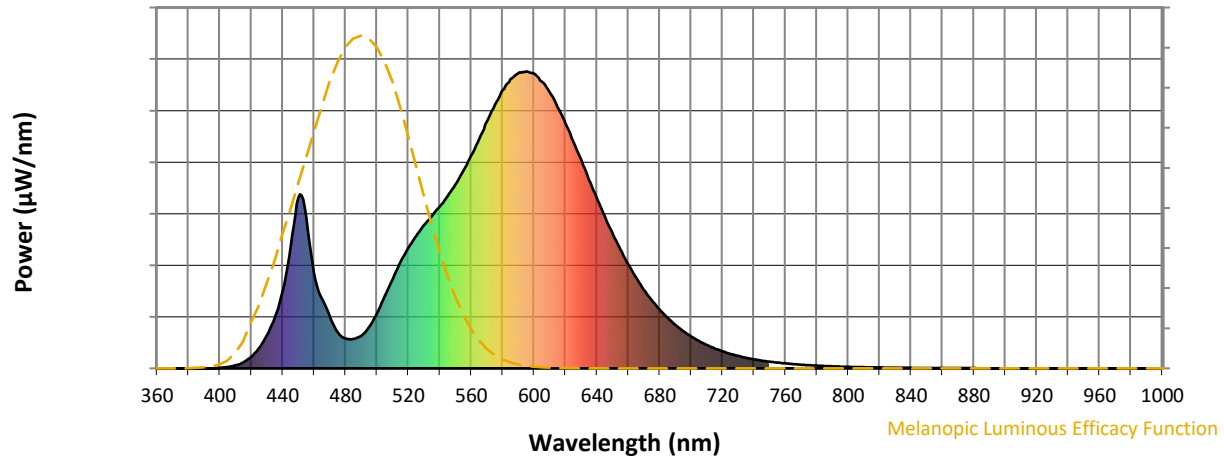
Scotopic Lumens: NR

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

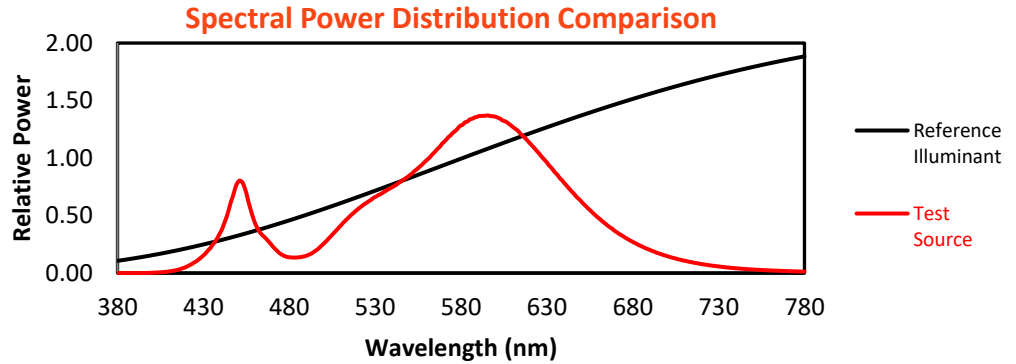
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186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

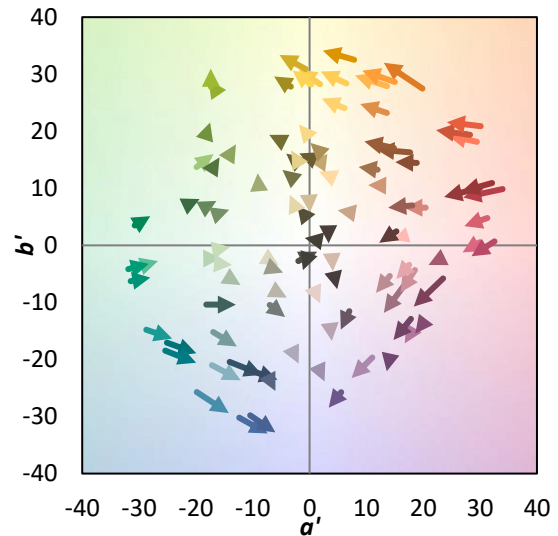
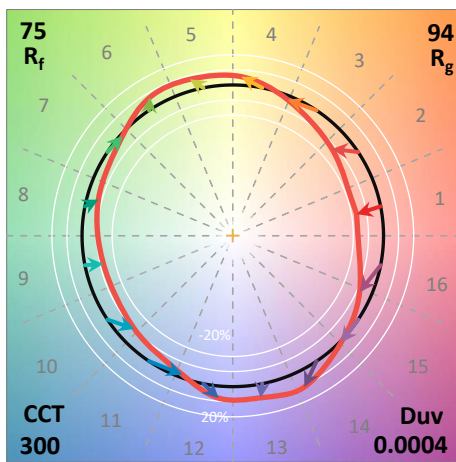
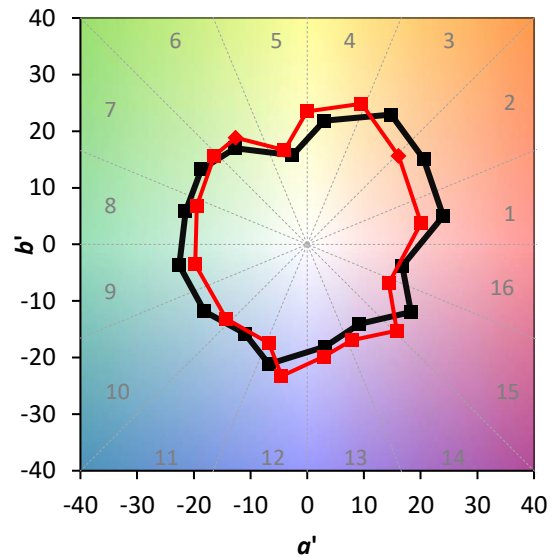
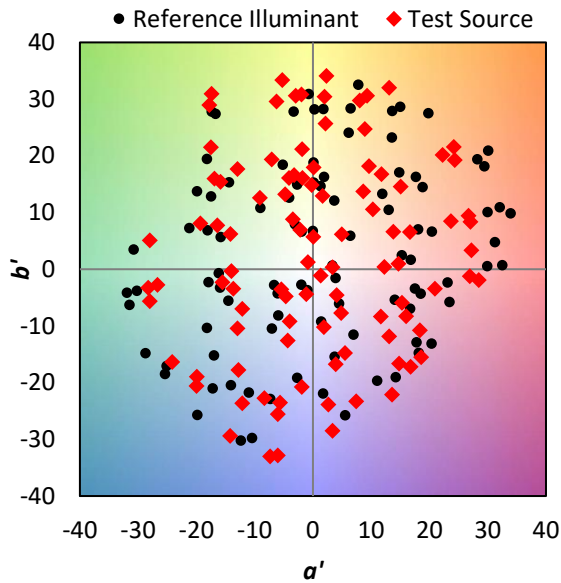
TM-30-18

Summary

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



Color Vector Graphics

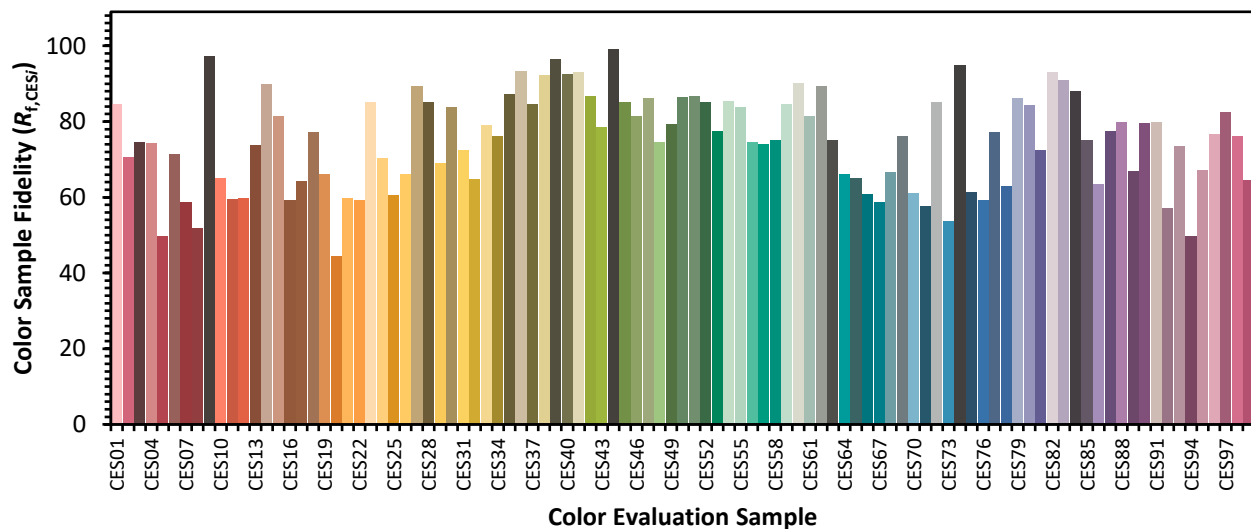


REPORT NUMBER: SP1-2406-133-4

TM-30-18

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

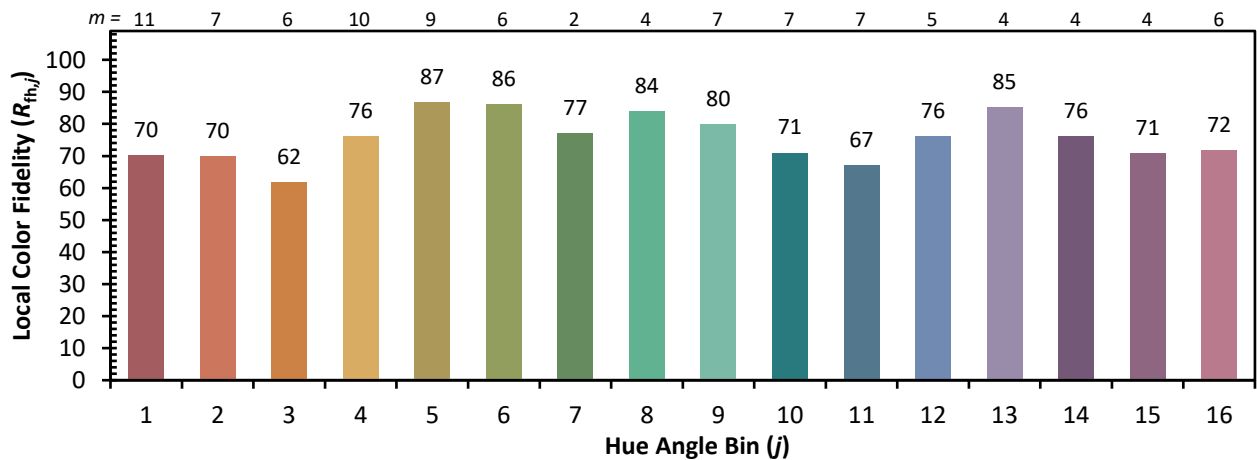
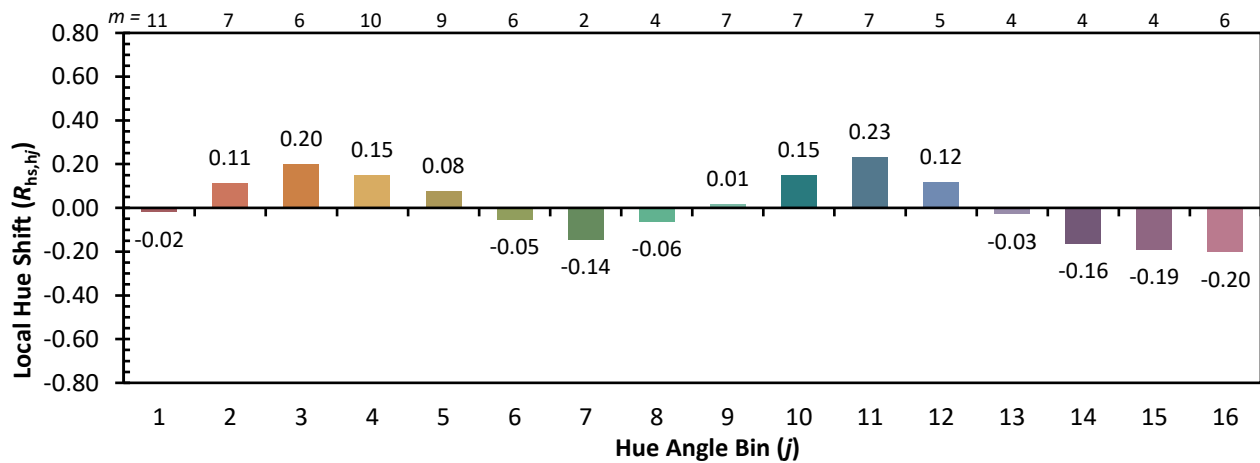
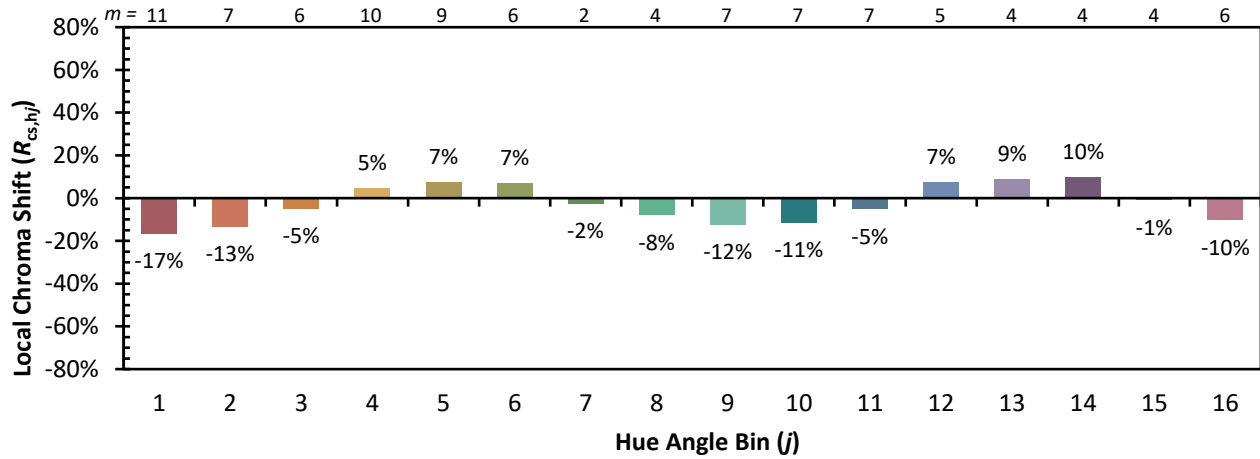
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82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

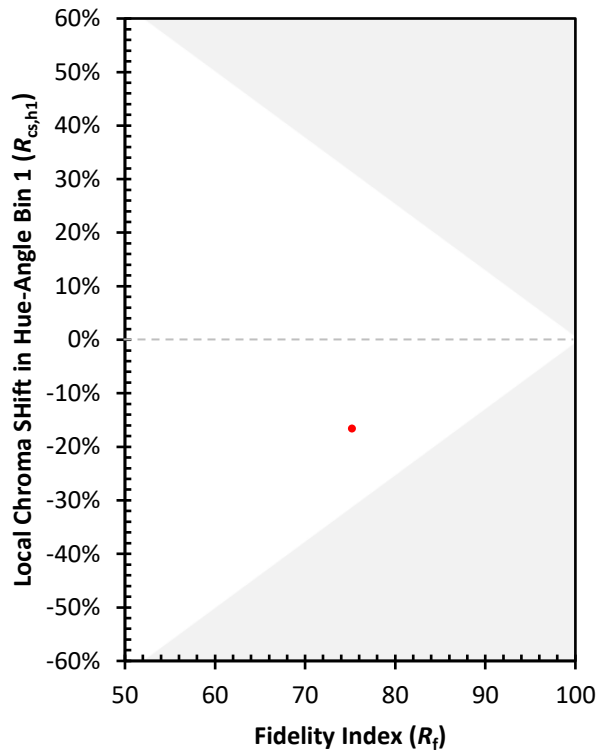
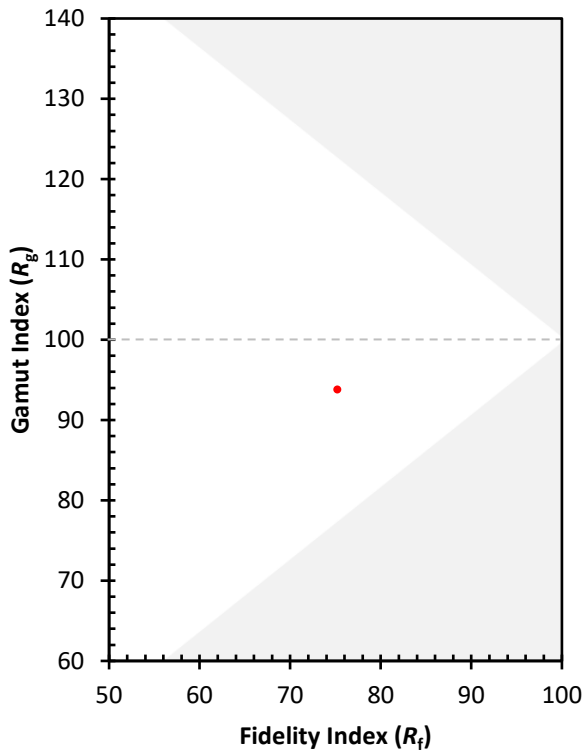
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)