

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: P856225

Luminaire Tested: **FFX-CLB-30-740-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856225
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-740-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

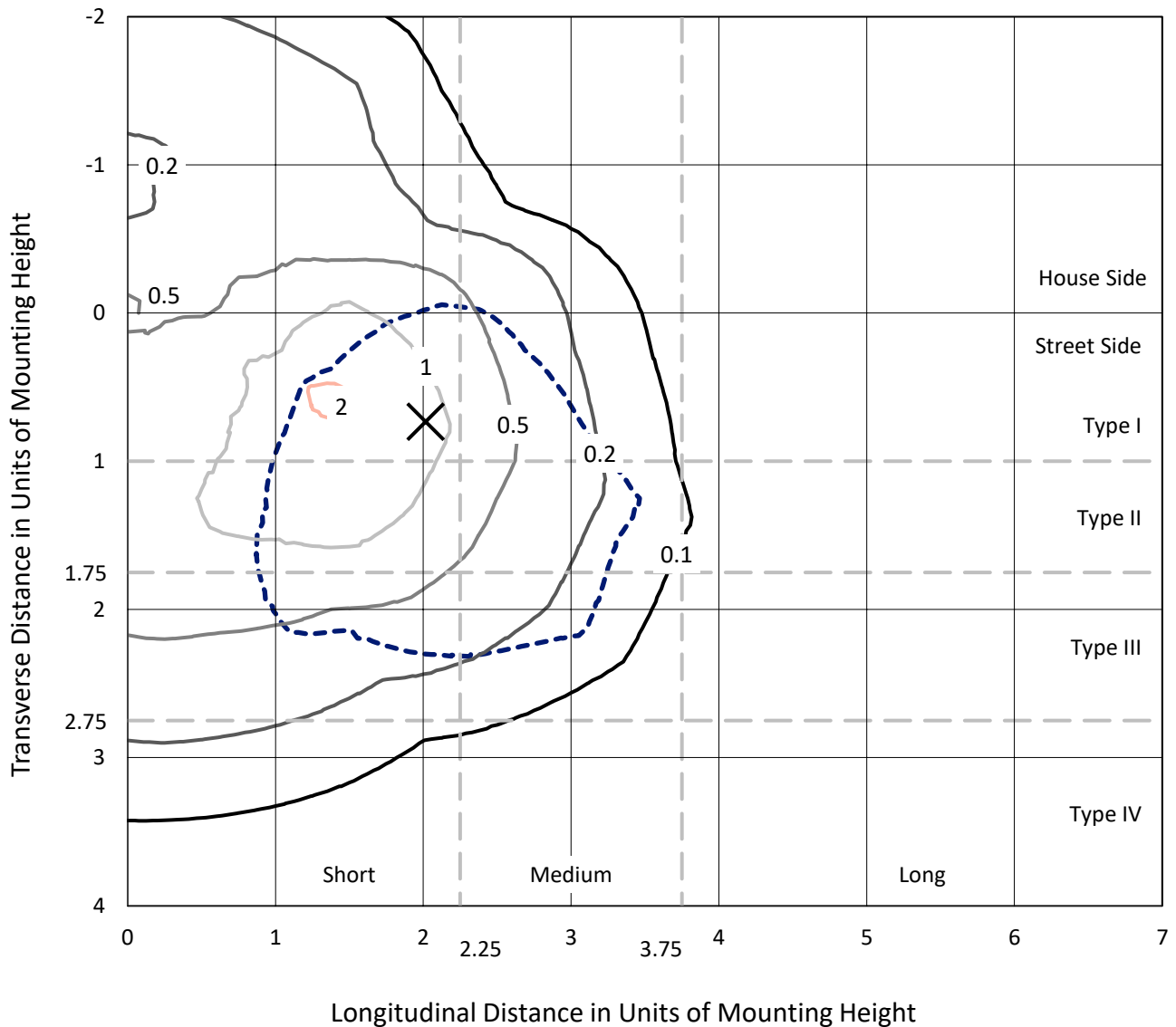
Lumens per Lamp: N/A
Luminaire Lumens: 4906.1 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G3

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: P856225
 CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

Iso-Footcandle Lines of Horizontal Illumination

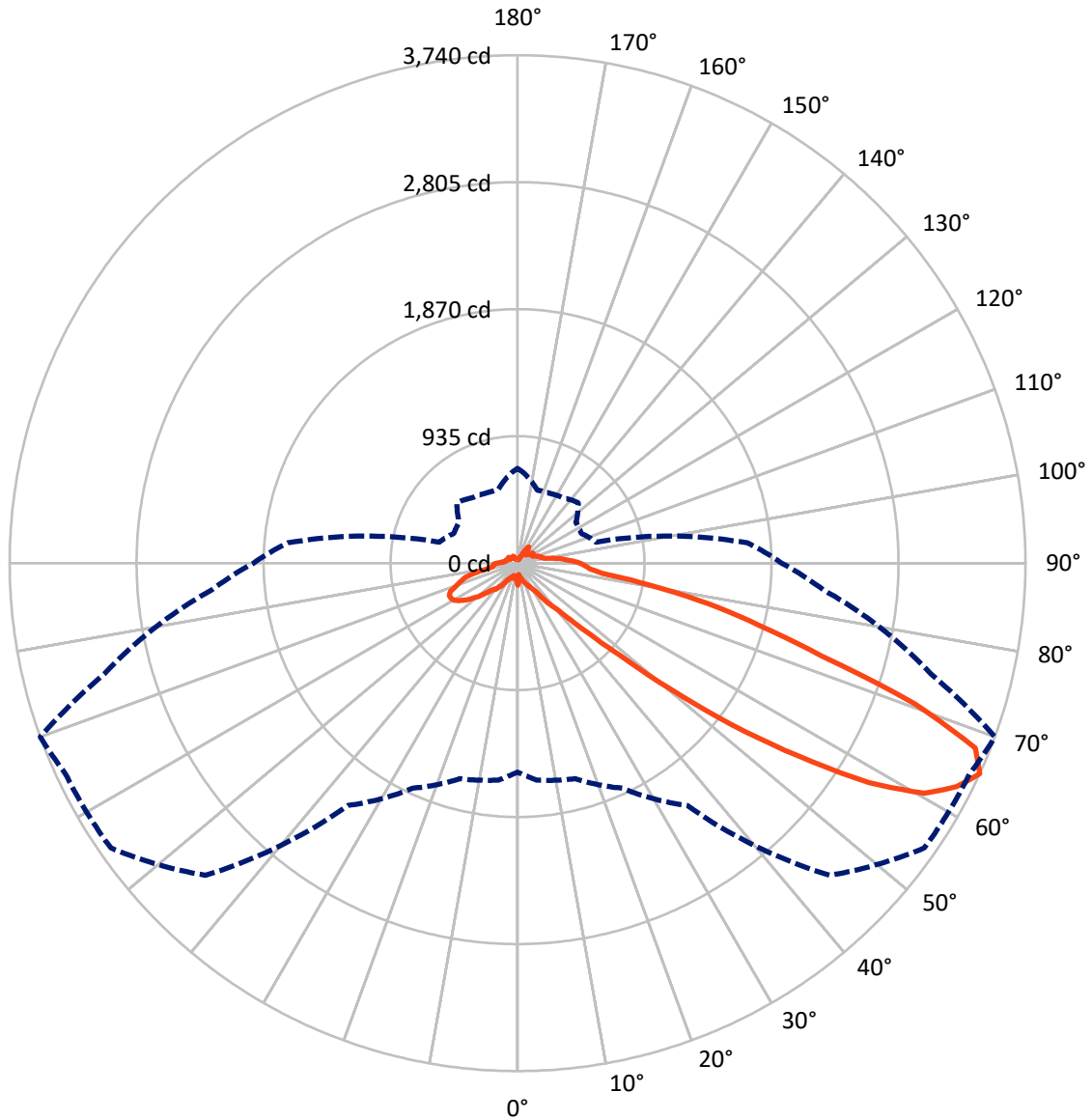
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P856225
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

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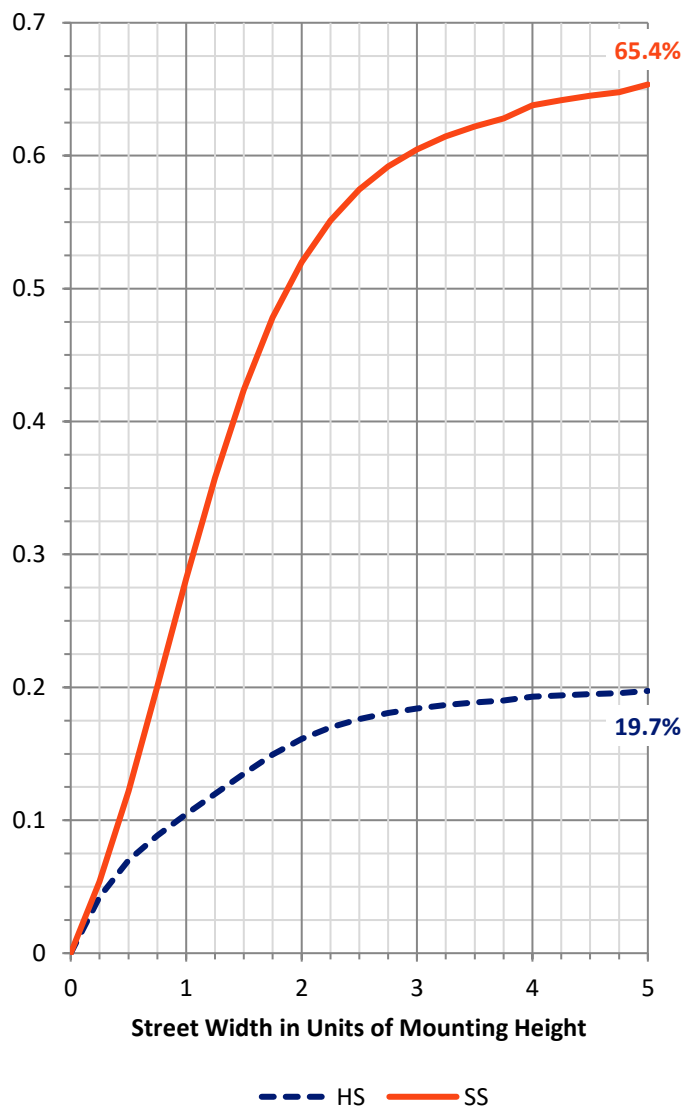
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1006.2	188.5	1194.7
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	3318.1	393.3	3711.3
	% Fixture	67.6	8.0	75.6
Total	Lumens	4324.3	581.8	4906.1
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.2
10°-20°	32.8	0.7
20°-30°	66.2	1.3
30°-40°	140.1	2.9
40°-50°	326.7	6.7
50°-60°	973.7	19.8
60°-70°	1560.2	31.8
70°-80°	896.3	18.3
80°-90°	317.9	6.5
90°-100°	187.5	3.8
100°-110°	113.3	2.3
110°-120°	85.2	1.7
120°-130°	72.1	1.5
130°-140°	47.9	1.0
140°-150°	45.0	0.9
150°-160°	19.9	0.4
160°-170°	8.2	0.2
170°-180°	2.7	0.1
0°-90°	4324.3	88.1
0°-180°	4906.1	100.0



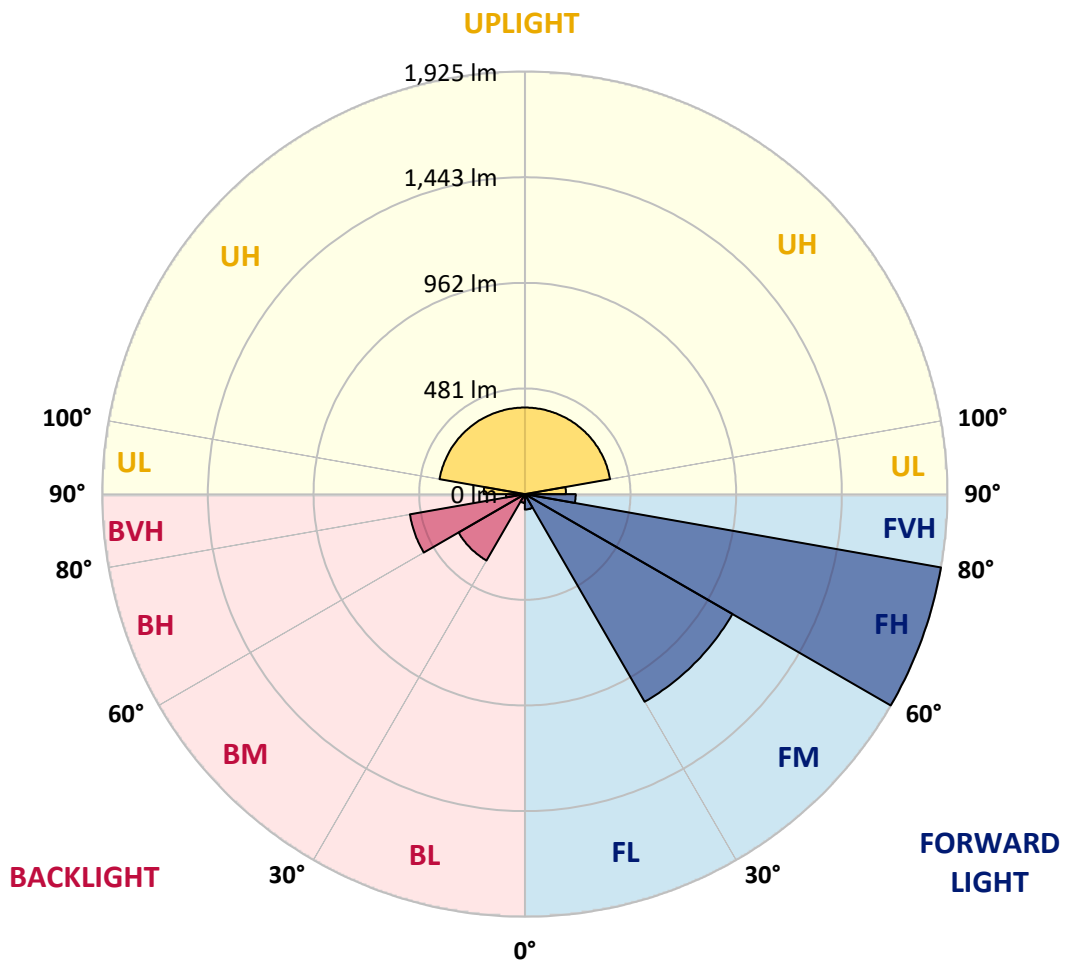
REPORT NUMBER: P856225
 CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	70.3	1.4			
FM (30°-60°)	1091.6	22.3			
FH (60°-80°)	1924.6	39.2			G2/5000
FVH (80°-90°)	231.6	4.7			G3/500
BL (0°-30°)	39.2	0.8	B0/110		
BM (30°-60°)	348.9	7.1	B1/1000		
BH (60°-80°)	531.9	10.8	B2/1000		G2/1000
BVH (80°-90°)	86.3	1.8			G1/100
UL (90°-100°)	187.5	3.8		U3/500	
UH (100°-180°)	394.3	8.0		U3/500	

BUG Rating: B2-U3-G3

Type III Short





REPORT NUMBER: P856225

CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7
2.5°	135.7	134.7	137.3	139.3	141.9	138.3	132.1	138.3	140.4	146.6	151.3
5°	115.4	115.9	118.5	124.3	129.5	128.4	112.3	91.5	85.3	82.7	83.2
7.5°	114.4	113.9	112.3	111.8	114.9	126.3	124.8	109.7	98.3	88.4	78.5
10°	120.6	122.2	123.7	123.7	121.7	114.4	113.9	112.8	108.7	104.0	97.7
12.5°	149.2	151.3	152.9	147.7	140.9	133.6	127.9	118.5	114.4	111.8	107.1
15°	180.4	182.5	179.9	170.0	158.1	144.5	139.3	139.9	134.1	127.4	117.5
17.5°	197.1	196.0	185.1	173.7	164.3	153.9	146.6	141.9	139.9	137.3	127.4
20°	186.7	184.1	177.3	172.6	171.6	165.9	161.2	157.0	154.4	148.7	136.7
22.5°	178.9	178.9	177.8	176.8	183.0	180.4	178.3	172.6	169.0	161.7	144.0
25°	188.7	188.7	189.3	187.7	196.0	196.0	196.0	189.8	185.1	174.7	153.4
27.5°	202.8	202.3	203.8	202.8	210.1	211.6	214.7	210.1	203.3	190.8	163.8
30°	217.9	217.9	219.4	220.5	227.7	231.4	235.0	232.9	224.6	209.5	181.5
32.5°	234.0	233.5	238.1	243.3	247.5	254.3	255.8	261.0	252.7	235.0	207.5
35°	257.4	258.9	271.4	282.3	294.3	298.4	305.7	326.0	317.7	293.8	262.0
37.5°	372.3	364.5	361.4	348.9	347.3	371.8	380.6	399.8	383.2	351.0	302.6
40°	394.6	385.3	381.1	369.2	373.3	423.8	414.9	484.1	443.5	392.0	360.8
42.5°	371.8	370.2	419.1	428.4	423.2	503.3	486.1	614.0	570.9	451.3	416.5
45°	448.7	444.5	465.3	482.0	495.0	639.0	628.6	763.3	744.6	549.6	515.3
47.5°	506.4	502.3	526.2	581.8	657.7	813.7	874.5	1077.8	1014.4	756.0	678.0
50°	679.0	676.4	740.9	800.7	926.0	1156.3	1323.2	1542.7	1449.6	1056.0	912.5
52.5°	842.3	850.6	926.0	1040.9	1173.5	1589.5	1827.6	1981.5	1980.4	1375.2	1171.4
55°	959.3	987.4	1076.3	1283.7	1467.8	1973.7	2295.0	2408.9	2504.5	1834.9	1426.7
57.5°	1186.5	1235.4	1320.6	1526.0	1763.6	2438.5	2897.1	2878.4	3050.5	2311.6	1704.4
60°	1420.0	1477.1	1505.7	1694.5	2006.4	2886.2	3311.0	3267.3	3440.4	2726.6	1996.6
62.5°	1492.7	1548.9	1577.0	1782.3	2181.7	3139.9	3501.8	3518.9	3626.6	3022.4	2169.7
65°	1538.5	1603.0	1643.5	1828.6	2178.0	3250.7	3656.2	3672.3	3739.9	3149.8	2259.1
67.5°	1530.2	1602.5	1654.4	1820.3	2057.4	3158.6	3617.7	3544.9	3635.4	3058.8	2165.0
70°	1364.8	1427.8	1479.7	1607.7	1717.4	2661.0	3130.0	3009.9	3103.5	2555.5	1787.5
72.5°	1115.3	1141.3	1186.5	1246.8	1301.4	1974.2	2387.6	2284.6	2338.7	1917.0	1339.4
75°	916.1	910.9	951.5	995.2	978.0	1442.3	1888.9	1794.8	1845.3	1455.8	1068.5
77.5°	679.0	676.4	735.2	731.6	705.6	998.8	1497.4	1429.3	1436.1	1075.2	800.2
80°	408.2	416.0	473.1	484.6	453.9	626.5	1069.0	1036.8	988.4	734.7	561.0
82.5°	286.5	298.4	328.6	341.1	326.0	457.5	708.2	685.8	628.6	532.9	395.2
85°	292.2	294.3	297.9	299.0	292.2	410.8	549.6	537.1	533.5	446.6	326.0
87.5°	292.2	296.9	300.0	299.5	287.5	384.8	506.9	487.2	491.9	417.5	315.1
90°	262.0	270.4	269.8	271.4	261.5	347.8	459.6	443.5	449.7	376.4	286.5
92.5°	214.2	219.9	225.7	236.6	222.0	295.8	388.4	373.3	381.1	320.3	243.9
95°	199.1	204.3	208.0	213.7	199.1	263.1	343.7	325.5	328.6	271.9	206.4
97.5°	161.2	164.3	168.5	169.5	159.1	202.3	261.5	245.9	248.0	211.1	162.2
100°	135.2	137.8	141.4	141.4	134.7	167.4	206.9	198.6	197.6	172.6	137.3
102.5°	127.9	128.9	134.7	133.6	126.9	154.4	187.2	182.0	182.5	160.1	128.9
105°	125.8	125.8	131.5	128.9	123.2	147.1	175.2	173.7	173.1	152.3	123.7
107.5°	123.7	123.7	129.5	126.9	122.2	138.8	164.8	159.6	159.1	145.1	117.0
110°	115.4	117.0	123.2	120.1	116.5	131.0	151.3	147.7	147.7	136.7	111.8



REPORT NUMBER: P856225

CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	102.4	103.5	109.2	106.6	104.0	116.5	134.1	129.5	130.0	122.7	104.5
115°	95.7	97.2	102.9	99.3	97.2	108.7	124.3	121.1	122.2	115.4	98.8
117.5°	96.2	96.7	100.9	101.4	97.2	106.6	114.9	115.9	117.5	113.3	100.3
120°	117.0	114.4	116.5	113.9	111.8	122.7	132.6	133.6	133.1	125.3	99.8
122.5°	118.0	112.8	118.5	114.9	112.8	124.8	135.7	138.3	135.7	128.9	101.9
125°	94.1	95.7	96.2	97.2	99.3	112.3	118.0	118.5	119.1	117.0	98.8
127.5°	82.7	82.2	79.6	80.1	84.8	96.2	100.3	103.5	101.4	100.3	88.9
130°	79.0	80.1	79.6	79.6	82.2	91.0	94.1	98.8	97.2	95.1	81.1
132.5°	72.8	73.8	78.5	84.2	83.2	86.3	87.3	92.0	92.5	92.5	81.6
135°	69.2	70.2	73.8	81.1	79.0	80.6	80.1	84.2	84.8	85.3	77.0
137.5°	70.7	71.2	69.2	70.2	71.8	78.5	80.6	84.8	84.8	82.7	71.8
140°	74.4	74.4	69.7	68.1	71.2	81.6	85.8	92.5	91.5	87.9	74.4
142.5°	68.6	69.7	72.3	75.4	82.2	110.7	110.7	123.7	127.9	128.9	89.9
145°	89.4	89.9	91.0	92.5	105.5	145.1	132.1	141.4	145.1	148.7	108.1
147.5°	102.9	104.0	102.9	98.8	110.7	124.3	118.0	122.2	126.3	127.4	108.7
150°	80.6	79.6	79.0	78.5	91.5	95.7	90.5	89.9	93.1	95.7	84.2
152.5°	58.8	58.2	57.7	57.2	68.6	66.0	62.4	62.4	63.4	64.0	59.3
155°	52.0	51.5	50.4	51.0	58.2	55.6	52.5	51.5	52.5	52.0	49.4
157.5°	42.6	41.6	41.6	43.7	47.3	44.2	42.1	40.6	41.1	40.6	41.1
160°	35.4	34.8	35.4	38.0	40.0	37.4	35.4	34.3	34.3	35.4	37.4
162.5°	31.7	31.2	31.7	32.8	33.8	31.2	29.6	29.6	30.2	32.2	36.4
165°	27.6	27.6	28.1	28.6	29.1	27.6	27.0	27.0	28.1	31.2	35.9
167.5°	26.5	26.5	26.5	26.5	26.5	26.0	25.5	27.0	28.1	29.6	32.8
170°	26.0	25.5	26.0	26.0	26.0	26.0	26.0	27.6	27.6	28.1	29.6
172.5°	26.5	26.5	26.5	27.0	28.1	28.6	28.1	29.1	28.6	28.6	28.6
175°	27.0	27.0	27.6	28.1	28.6	29.1	29.6	29.6	29.6	30.2	30.2
177.5°	27.0	27.0	27.6	28.1	28.6	27.6	26.5	26.0	25.5	25.5	25.5
180°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9



REPORT NUMBER: P856225

CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7	162.7
2.5°	147.1	134.1	115.9	123.7	147.7	143.0	119.1	104.5	105.5	115.9	117.0
5°	85.8	88.4	100.3	125.3	130.0	107.6	86.8	83.7	100.9	124.8	129.5
7.5°	77.5	77.5	87.3	121.7	136.7	112.3	84.8	76.4	89.4	109.2	112.3
10°	93.6	90.5	91.5	104.0	109.7	89.9	75.9	72.3	79.6	82.2	81.1
12.5°	105.5	107.6	117.5	114.9	89.9	73.3	68.6	68.1	72.3	74.9	74.4
15°	113.3	109.7	102.4	94.1	85.8	76.4	69.7	65.5	60.8	58.8	58.8
17.5°	120.6	113.3	100.3	92.5	84.2	77.5	71.2	65.0	62.9	63.4	63.4
20°	129.5	120.6	108.7	99.8	89.9	80.6	72.8	66.0	64.5	65.0	64.5
22.5°	136.2	128.4	115.9	104.5	94.1	83.7	75.9	69.2	67.1	66.6	66.6
25°	144.5	137.8	124.8	110.7	98.3	88.4	81.6	73.8	70.2	69.2	69.2
27.5°	155.5	149.7	135.2	120.1	105.5	94.1	86.8	78.5	73.3	71.2	70.7
30°	172.1	164.3	148.2	129.5	114.4	102.4	93.6	83.2	77.0	73.3	72.8
32.5°	197.1	187.2	165.9	142.5	124.3	111.8	100.9	87.9	80.1	75.9	75.4
35°	250.1	239.2	212.1	179.4	152.9	127.4	110.2	93.1	83.2	78.0	77.5
37.5°	283.4	263.6	230.9	201.2	169.0	153.9	132.1	109.2	87.3	80.6	79.6
40°	331.7	306.2	265.2	225.1	168.5	167.9	153.4	133.1	102.9	85.3	83.7
42.5°	367.6	334.8	283.4	238.7	170.0	174.7	162.2	144.5	122.2	99.3	96.7
45°	440.9	399.3	317.7	250.6	172.1	182.5	170.0	151.3	131.5	115.4	113.9
47.5°	578.2	520.5	384.2	273.5	195.5	208.5	186.1	164.3	145.1	128.9	125.3
50°	770.0	700.9	464.8	293.8	235.5	265.2	228.8	195.5	172.6	160.1	156.5
52.5°	995.2	917.7	515.3	325.5	283.9	334.8	294.8	255.8	225.7	227.7	225.7
55°	1246.3	1154.8	559.5	373.3	345.8	412.3	368.6	334.8	318.7	364.0	366.6
57.5°	1488.6	1390.8	587.0	423.8	414.9	501.7	450.8	426.9	433.1	565.7	596.9
60°	1720.0	1565.5	608.3	471.1	473.1	571.9	532.9	528.3	547.5	717.5	764.8
62.5°	1853.6	1655.0	607.3	501.7	509.5	615.1	580.8	583.4	597.9	742.5	782.0
65°	1944.6	1700.2	596.9	517.3	525.1	630.7	586.5	566.2	556.9	655.6	697.8
67.5°	1890.0	1612.8	571.9	503.8	514.2	605.7	550.6	499.7	483.5	537.1	562.1
70°	1597.8	1347.7	509.5	458.1	464.8	511.1	464.3	408.7	392.6	420.6	432.1
72.5°	1207.3	1034.7	457.0	423.2	407.1	422.7	377.0	318.7	315.1	330.2	332.2
75°	964.5	812.1	416.5	381.6	338.5	354.6	299.5	237.1	232.4	233.5	228.3
77.5°	726.9	604.2	350.4	300.5	256.3	282.8	222.5	163.8	156.0	152.9	147.1
80°	497.6	419.6	238.1	201.2	182.0	207.5	158.6	120.1	119.6	118.5	112.3
82.5°	353.0	323.9	194.5	171.1	154.4	163.3	137.8	112.3	109.7	110.2	103.5
85°	308.8	293.2	187.7	173.1	157.0	156.5	131.5	105.0	104.0	104.5	98.3
87.5°	295.3	278.2	183.5	165.3	149.7	141.9	115.9	92.5	95.1	96.7	91.0
90°	264.6	247.0	166.4	147.7	132.6	119.1	98.3	83.7	87.9	88.9	83.7
92.5°	223.1	204.9	129.5	118.5	111.3	109.2	92.0	79.6	82.7	83.2	79.0
95°	188.7	172.1	112.8	104.5	99.3	98.8	83.2	72.3	73.8	73.3	69.7
97.5°	151.8	139.9	98.8	91.0	85.3	82.2	71.2	62.9	65.0	66.0	63.4
100°	129.5	122.7	92.0	85.3	78.5	74.4	65.0	58.2	60.3	62.4	60.3
102.5°	121.7	116.5	90.5	83.2	75.9	70.7	61.9	54.6	55.6	58.2	56.7
105°	115.4	110.7	87.9	80.1	73.3	67.6	60.3	51.5	51.0	53.6	53.0
107.5°	108.7	104.5	86.3	77.0	69.7	64.5	57.7	49.4	47.3	48.9	48.4
110°	105.0	100.9	83.2	73.3	65.5	60.8	54.6	47.8	45.2	45.8	45.8



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CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	97.7	93.1	76.4	67.1	60.8	56.7	50.4	45.8	42.6	43.7	44.2
115°	93.1	86.8	70.2	63.4	56.7	53.0	49.4	45.2	41.6	41.6	42.1
117.5°	96.2	84.2	65.5	60.3	56.7	55.6	54.6	48.4	41.1	40.6	40.6
120°	92.0	84.8	71.2	69.7	66.0	62.9	56.2	47.8	40.0	39.0	39.0
122.5°	89.9	88.4	80.6	75.4	68.6	62.4	52.5	43.7	38.5	37.4	37.4
125°	88.9	87.3	78.0	68.1	59.3	53.0	46.8	41.1	38.0	36.4	36.4
127.5°	81.6	74.4	62.9	57.2	51.5	48.9	43.7	40.0	36.4	34.3	34.3
130°	75.4	68.6	58.8	52.5	47.8	45.8	42.1	38.5	34.8	32.8	32.2
132.5°	74.4	67.6	57.2	49.4	45.2	43.2	41.1	36.9	32.8	30.7	30.2
135°	69.2	61.4	51.0	46.8	44.2	42.6	41.1	35.9	31.7	29.6	29.6
137.5°	64.0	56.2	48.4	46.3	44.2	42.6	38.0	32.8	29.6	28.1	28.1
140°	64.5	55.6	49.4	47.8	44.7	40.0	35.9	32.2	29.6	27.6	27.0
142.5°	68.6	57.7	49.9	45.2	43.2	40.6	39.0	34.8	29.6	26.0	25.0
145°	75.4	62.4	56.2	54.1	50.4	45.8	40.0	32.2	27.0	23.9	23.4
147.5°	83.2	70.2	62.9	57.2	49.9	42.1	34.3	28.1	23.9	22.9	22.4
150°	72.3	59.8	54.1	46.3	40.0	33.8	28.1	25.0	22.9	22.4	22.4
152.5°	54.6	44.7	40.0	36.4	32.8	29.6	26.5	24.4	22.9	21.8	21.8
155°	47.3	42.1	37.4	33.8	30.2	27.0	24.4	23.4	21.8	21.8	21.3
157.5°	41.6	39.0	32.8	29.6	27.0	25.5	24.4	22.9	22.4	21.8	21.8
160°	38.0	36.4	30.2	27.6	26.0	25.0	25.0	23.9	22.4	21.8	21.8
162.5°	36.9	35.4	29.1	26.5	25.0	25.5	26.5	26.0	23.9	22.9	22.9
165°	36.4	35.4	29.6	26.0	25.0	25.5	28.1	28.6	26.0	24.4	23.9
167.5°	33.3	32.8	31.2	28.6	27.0	27.0	28.6	29.1	28.1	28.1	27.6
170°	30.2	30.2	30.7	31.2	30.2	28.6	27.6	27.6	29.1	30.7	31.2
172.5°	29.1	29.6	30.7	32.2	32.2	30.2	28.6	28.1	29.6	31.7	32.2
175°	30.7	31.2	31.7	31.7	30.7	30.2	29.6	29.1	30.2	32.2	32.8
177.5°	25.5	25.5	26.0	26.0	25.5	26.0	25.5	24.4	24.4	24.4	24.4
180°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

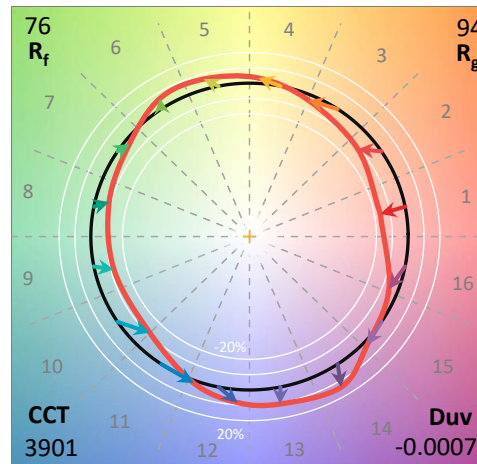
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 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-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 Rf: 76.2
 Rg: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

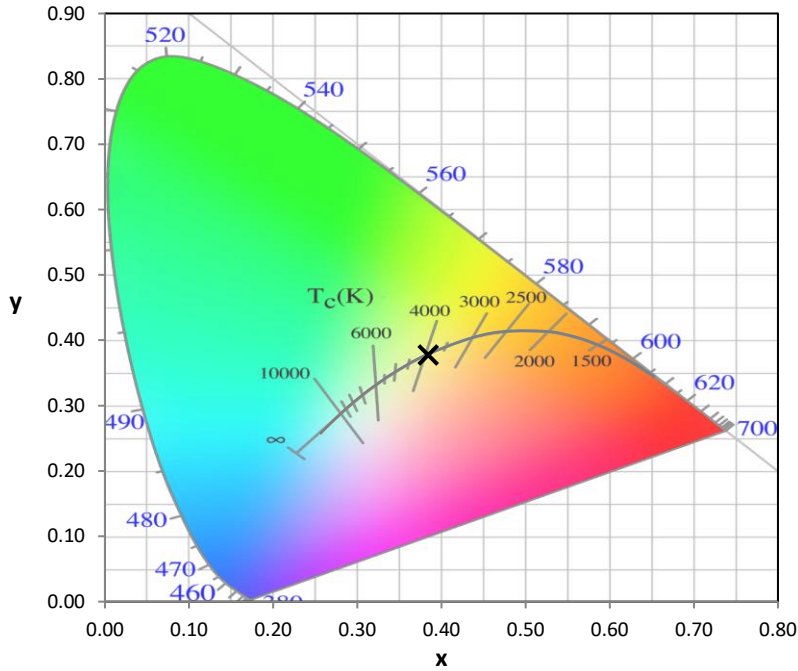
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

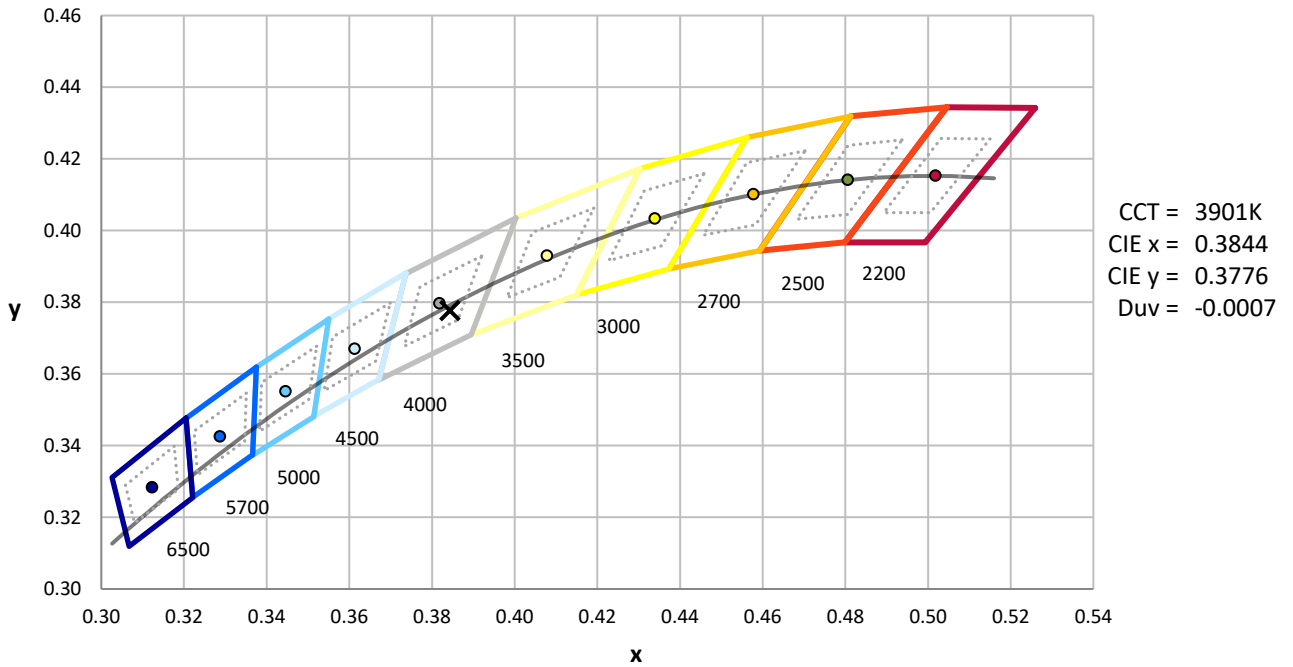
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-1

CIE 1931 Chromaticity Diagram



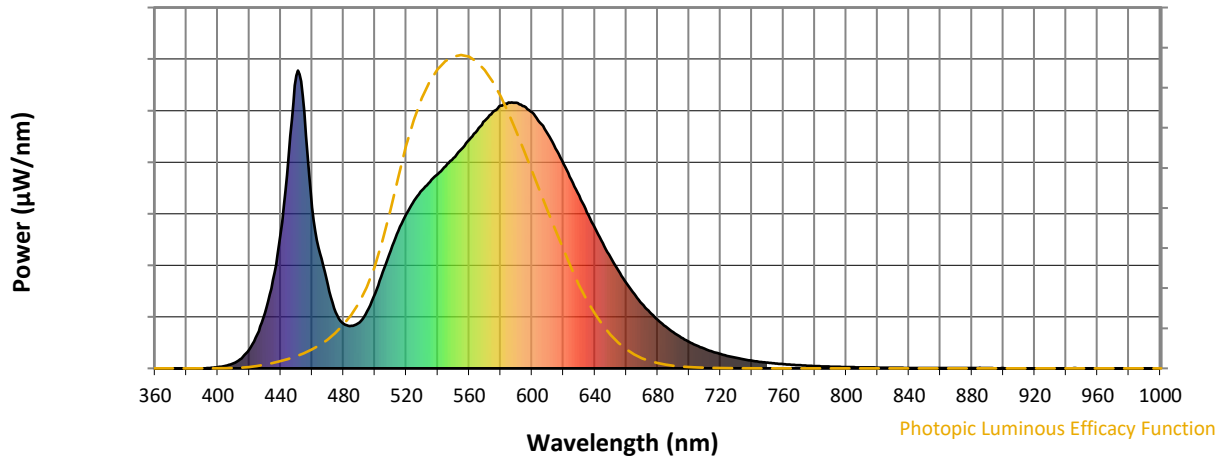
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-1

Photopic Flux vs. Wavelength

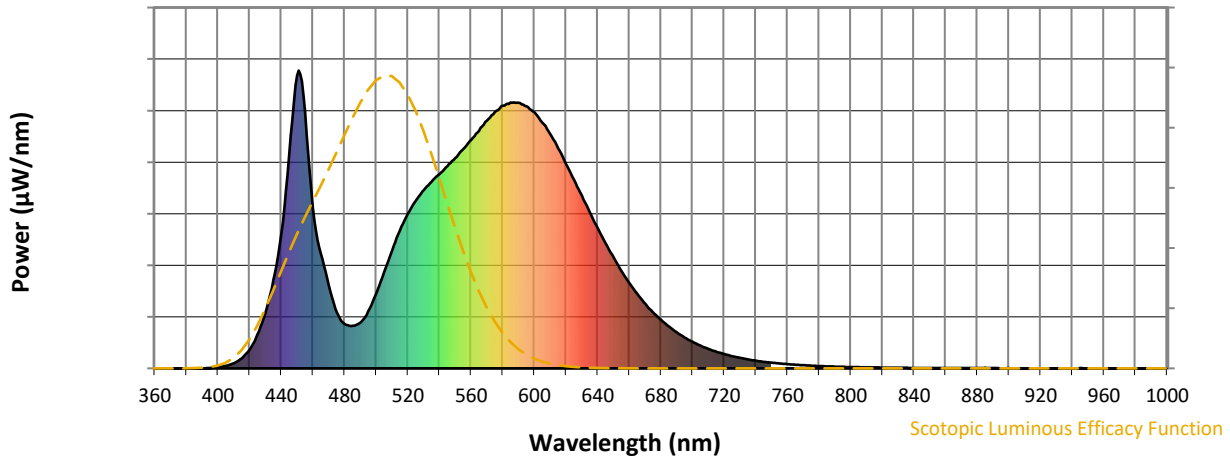


Photopic Lumens: NR

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

Scotopic Flux vs. Wavelength



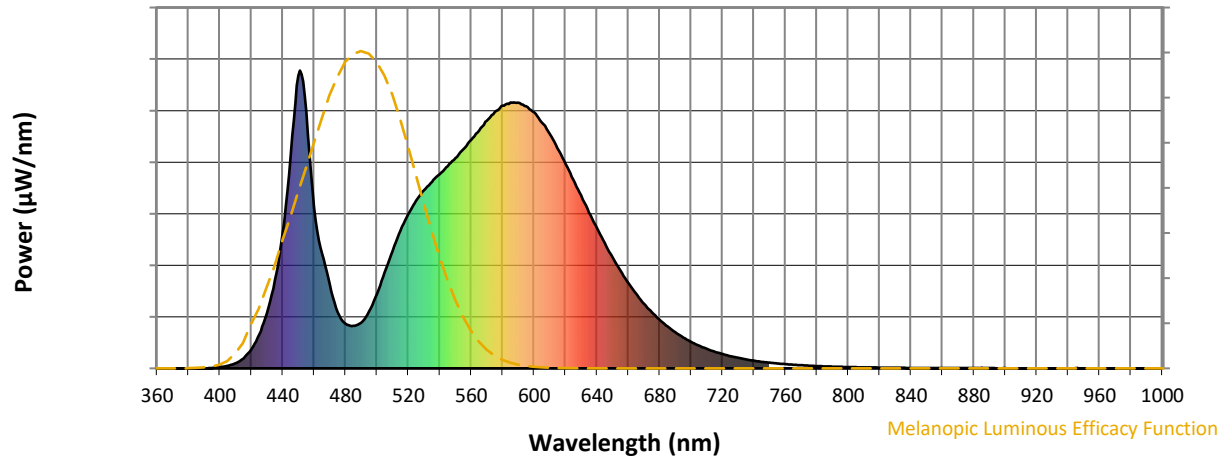
Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

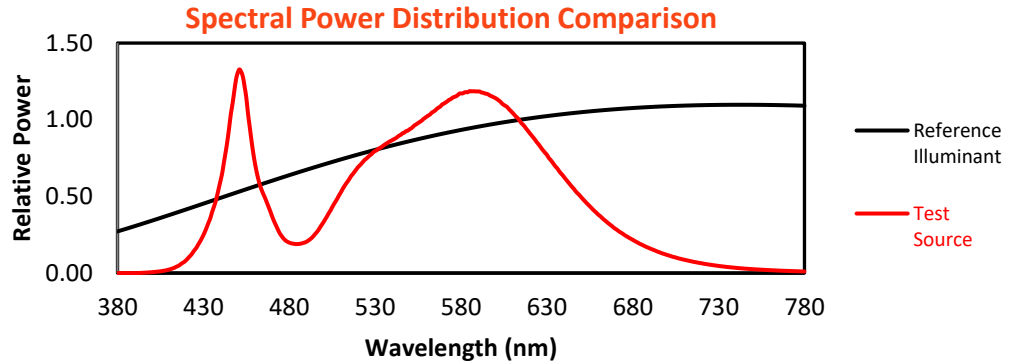
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

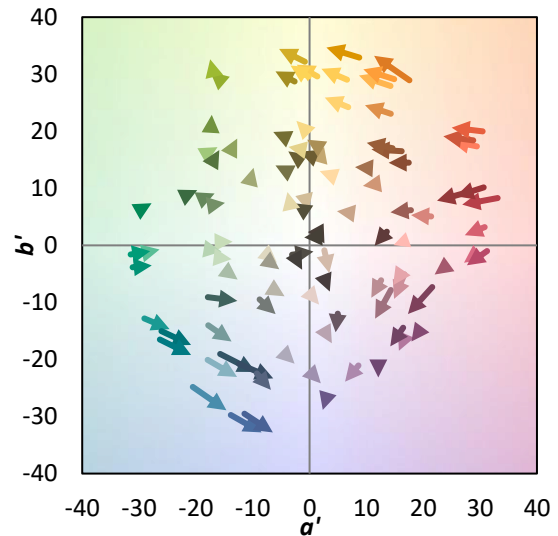
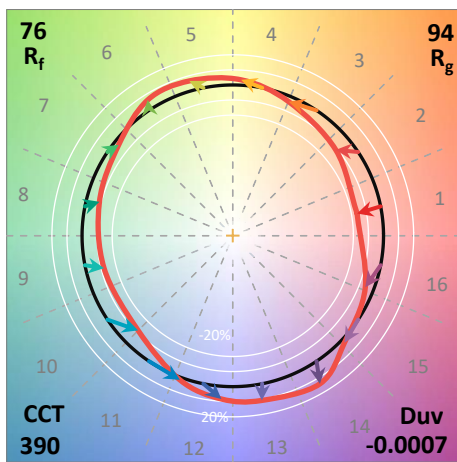
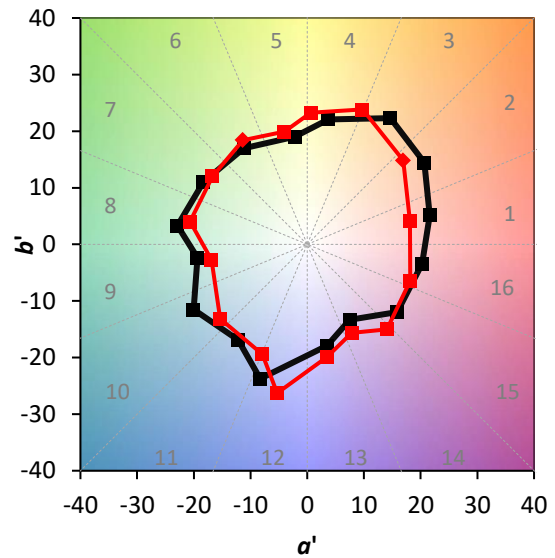
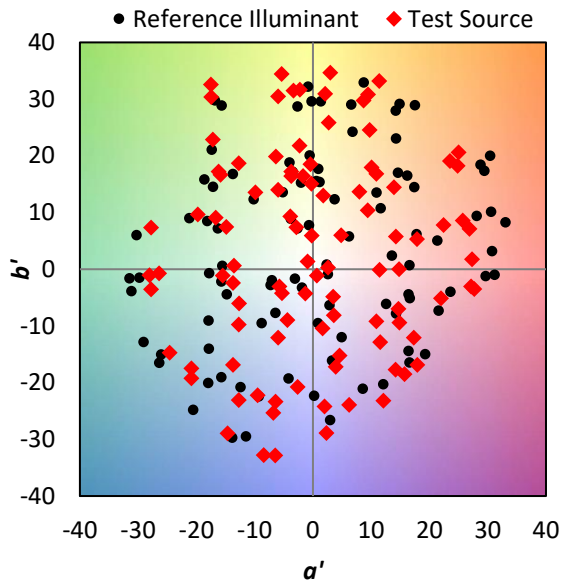
TM-30-18

Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_9 = -23.4$



Color Vector Graphics

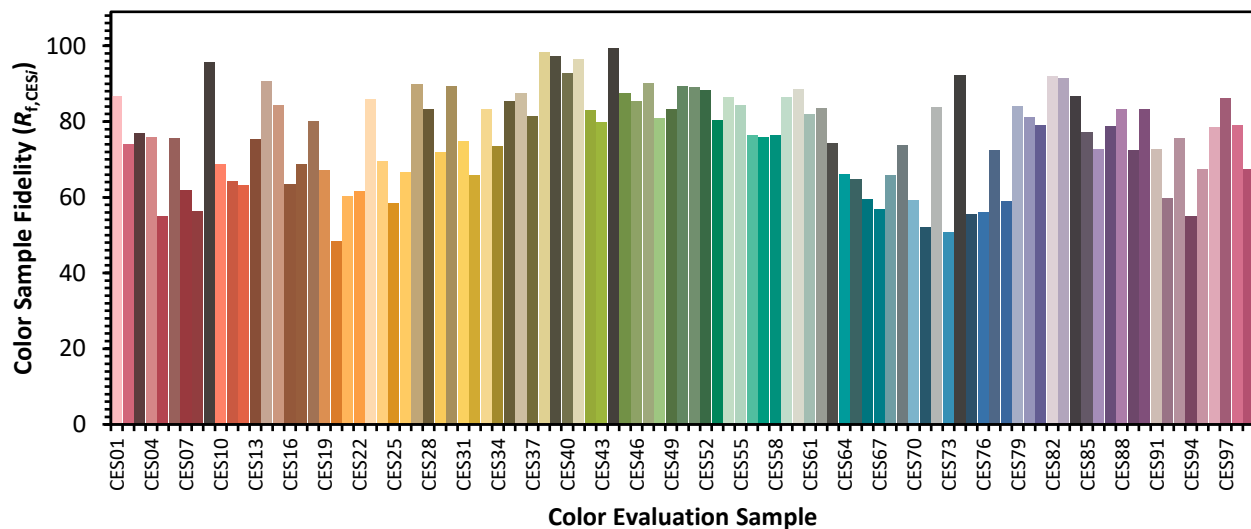


REPORT NUMBER: SP1-2406-133-1

TM-30-18

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

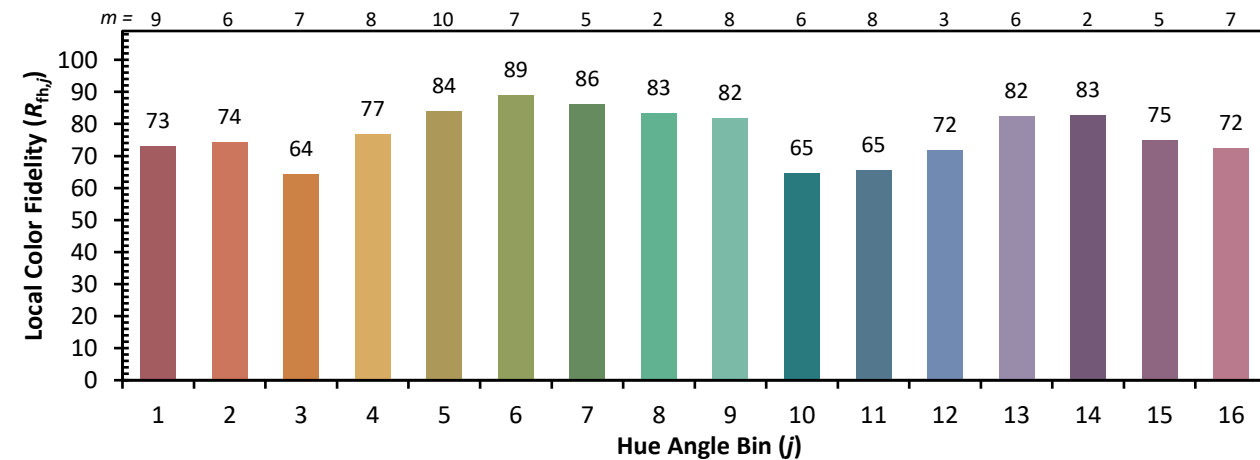
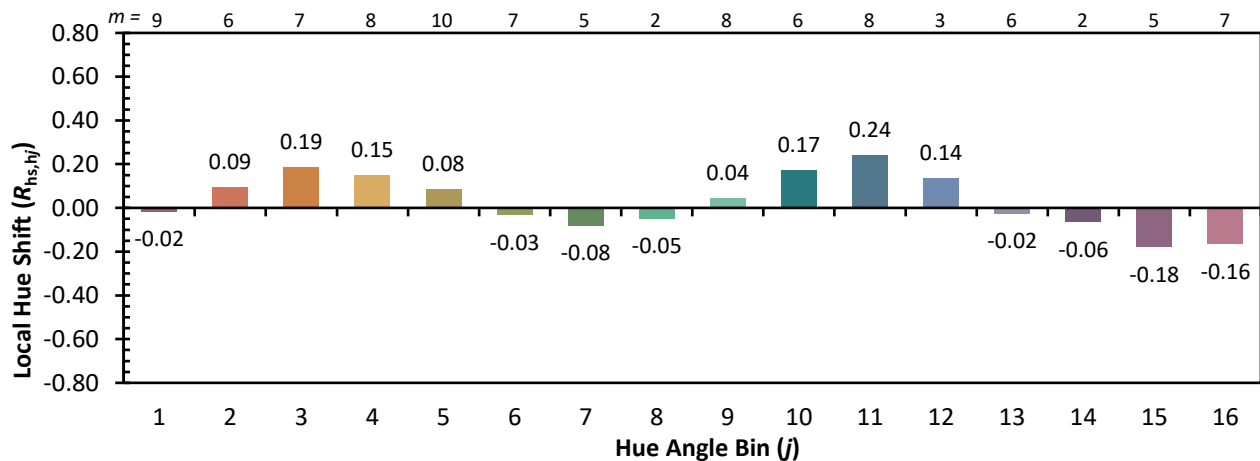
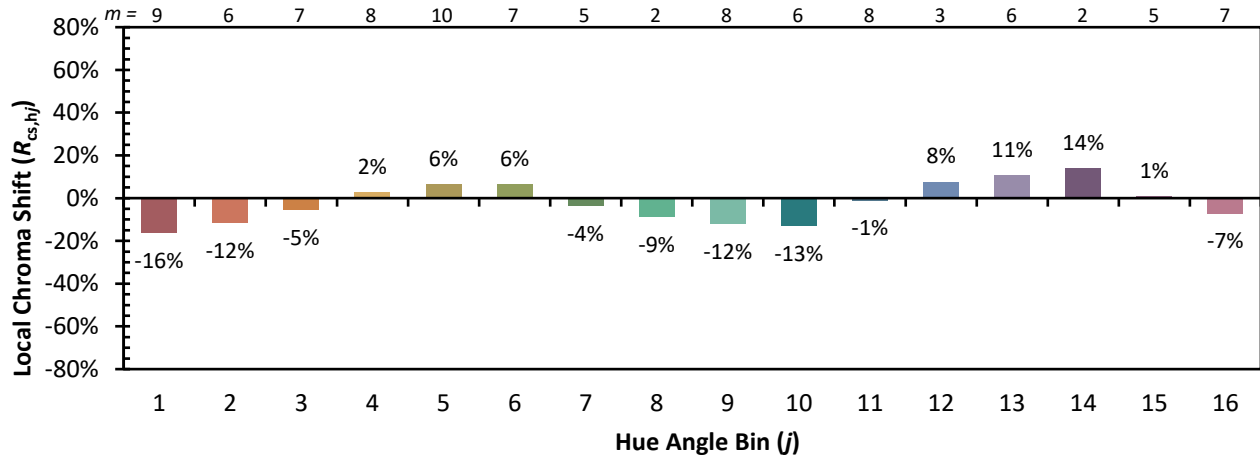
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



REPORT NUMBER: SP1-2406-133-1

TM-30-18

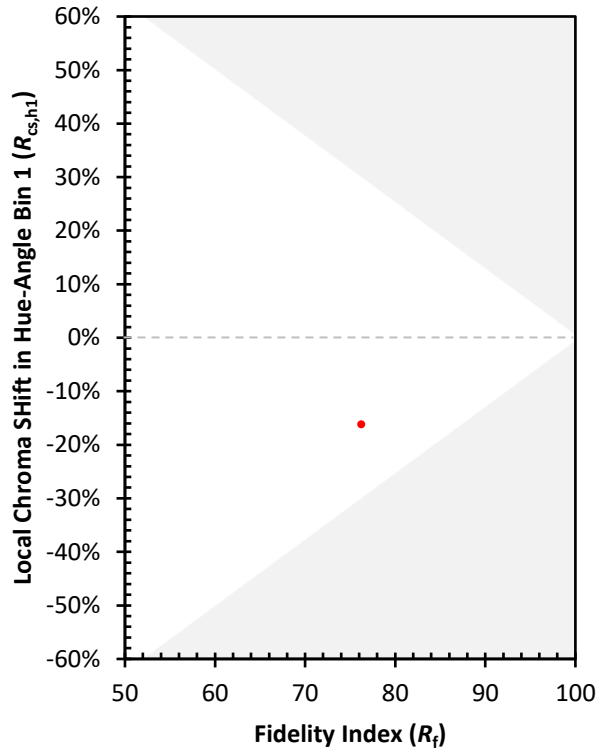
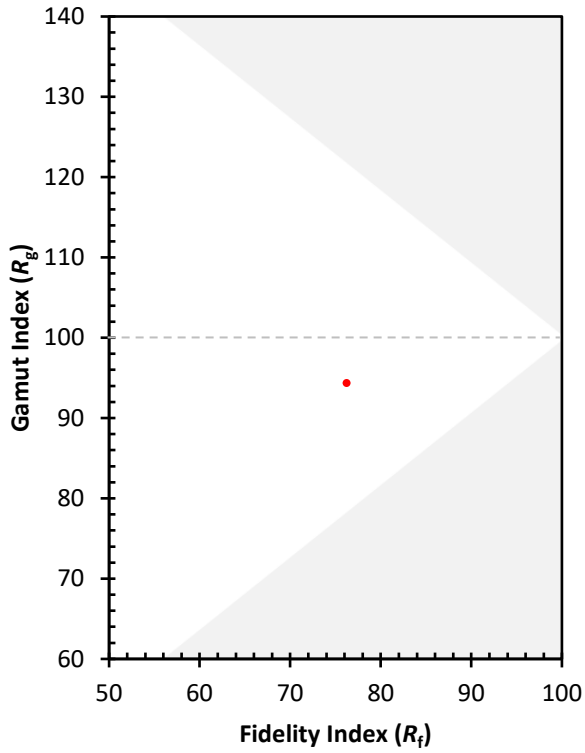
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)