

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: P856233

Luminaire Tested: **FFX-CLB-40-750-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856233
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-750-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

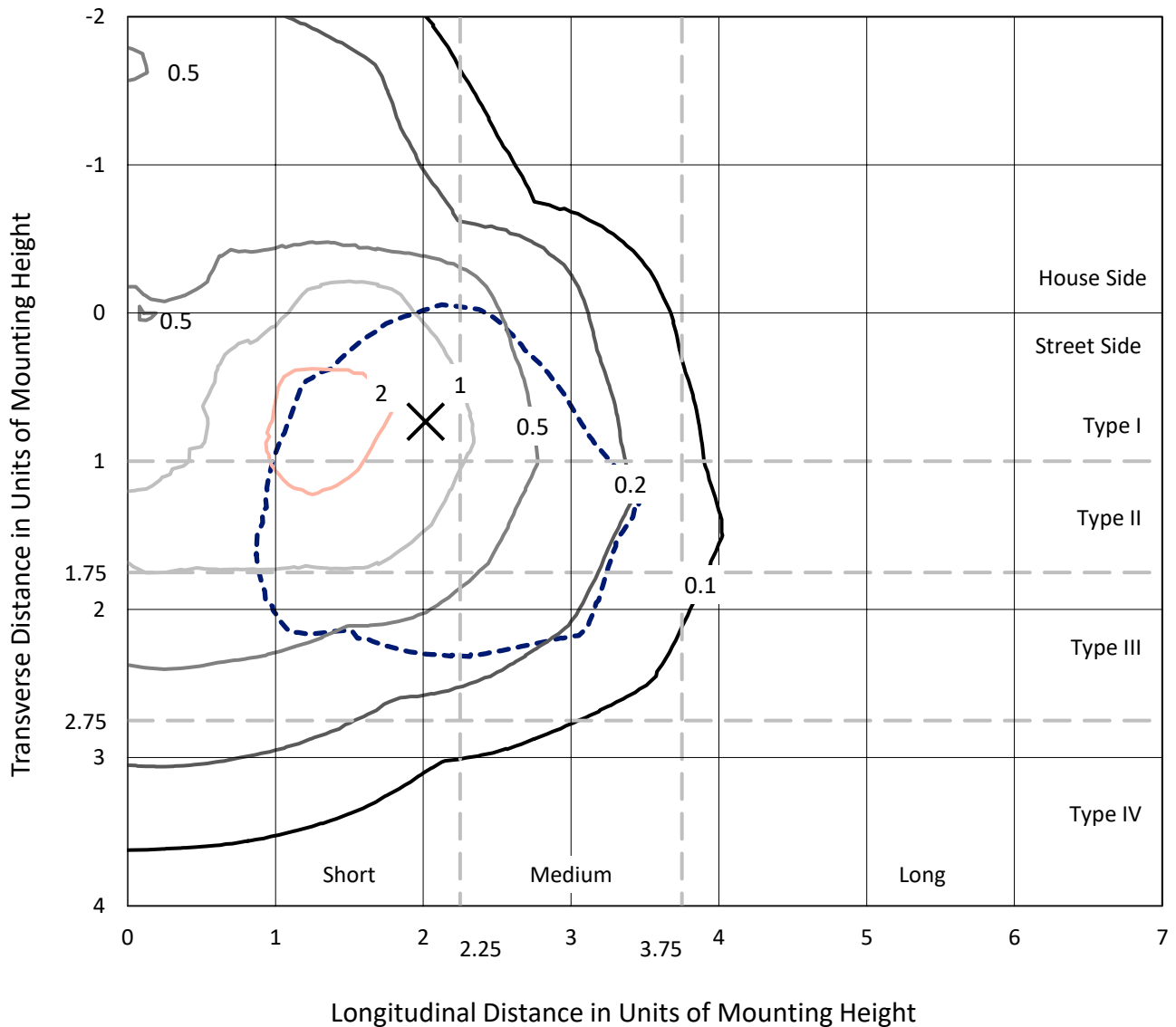
Lumens per Lamp: N/A
Luminaire Lumens: 6168.5 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G3

Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 8.2%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856233
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

Iso-Footcandle Lines of Horizontal Illumination

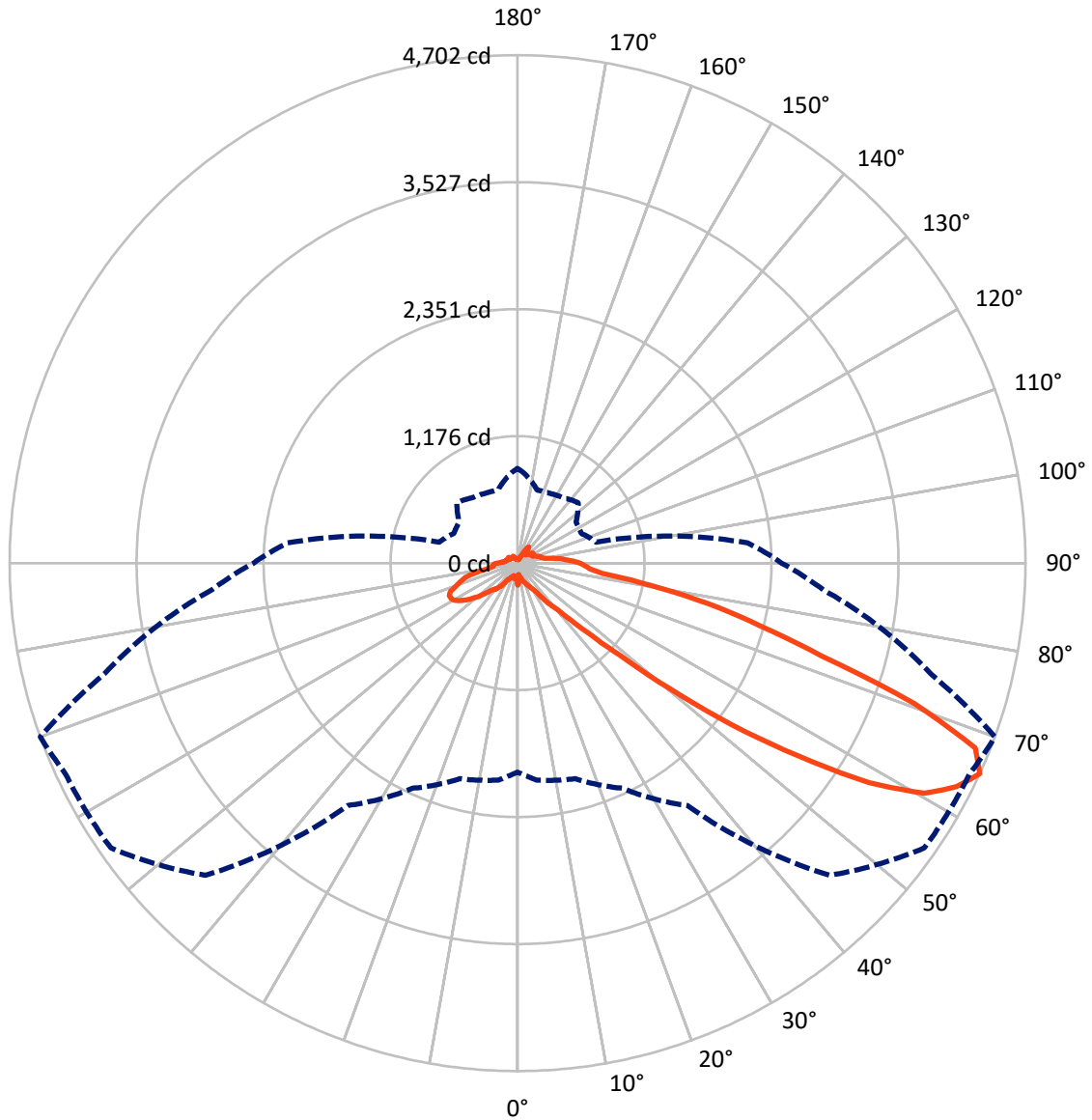
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

REPORT NUMBER: P856233
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856233
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

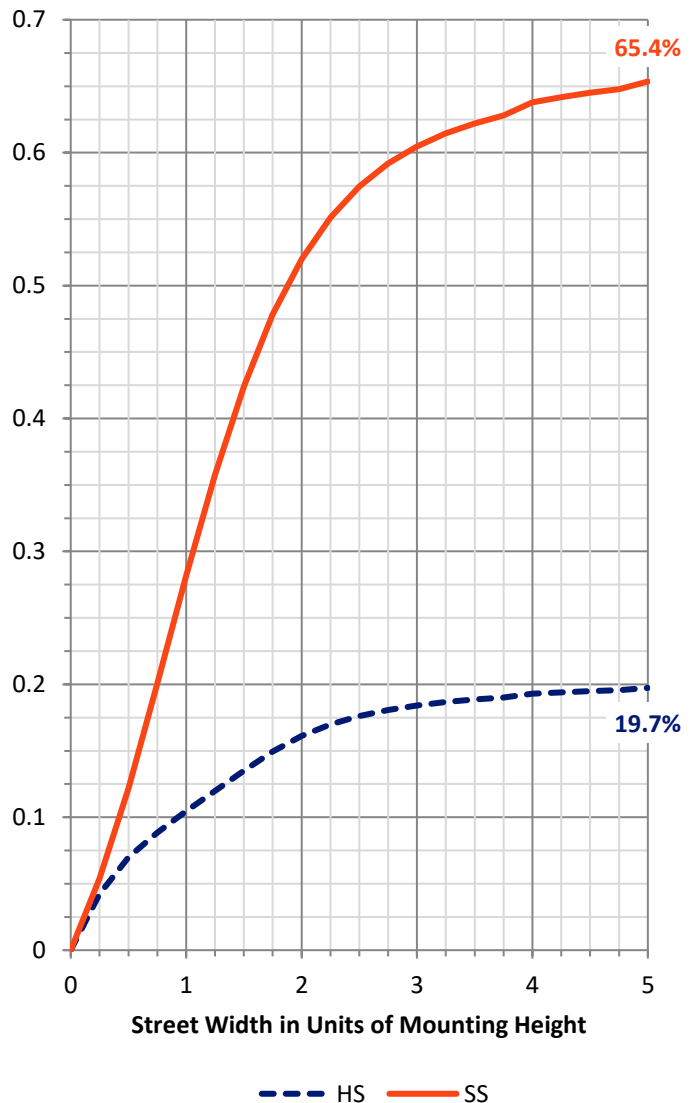
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.2	237.0	1502.2
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	4171.8	494.4	4666.3
	% Fixture	67.6	8.0	75.6
Total	Lumens	5437.0	731.5	6168.5
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.2
10°-20°	41.3	0.7
20°-30°	83.3	1.3
30°-40°	176.2	2.9
40°-50°	410.8	6.7
50°-60°	1224.2	19.8
60°-70°	1961.6	31.8
70°-80°	1126.9	18.3
80°-90°	399.7	6.5
90°-100°	235.7	3.8
100°-110°	142.4	2.3
110°-120°	107.1	1.7
120°-130°	90.7	1.5
130°-140°	60.2	1.0
140°-150°	56.5	0.9
150°-160°	25.1	0.4
160°-170°	10.4	0.2
170°-180°	3.4	0.1
0°-90°	5437.0	88.1
0°-180°	6168.5	100.0



REPORT NUMBER: P856233

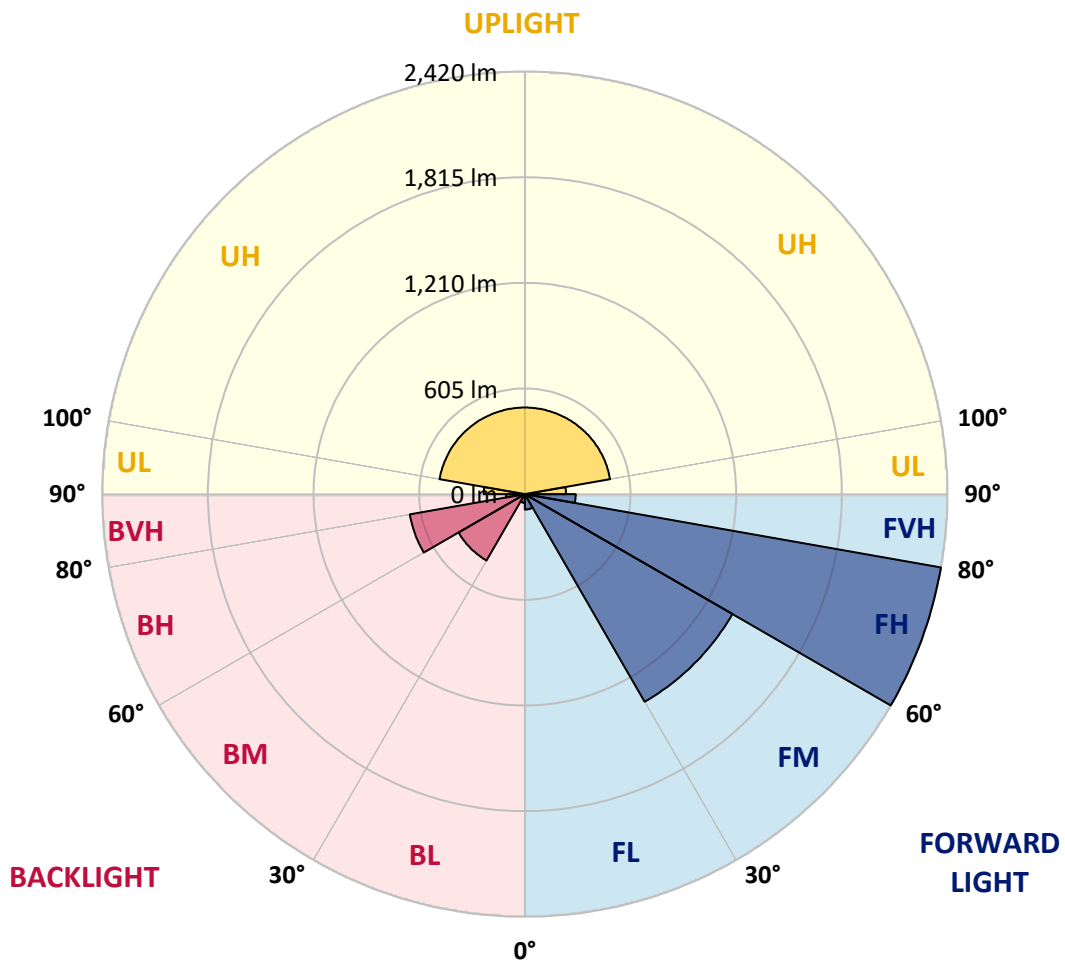
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.4	1.4			
FM (30°-60°)	1372.5	22.3			
FH (60°-80°)	2419.8	39.2			G2/5000
FVH (80°-90°)	291.1	4.7			G3/500
BL (0°-30°)	49.3	0.8	B0/110		
BM (30°-60°)	438.6	7.1	B1/1000		
BH (60°-80°)	668.7	10.8	B2/1000		G2/1000
BVH (80°-90°)	108.5	1.8			G2/225
UL (90°-100°)	235.7	3.8		U3/500	
UH (100°-180°)	495.7	8.0		U3/500	

BUG Rating: B2-U3-G3

Type III Short





REPORT NUMBER: P856233

CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6
2.5°	170.6	169.3	172.6	175.2	178.5	173.9	166.0	173.9	176.5	184.4	190.2
5°	145.1	145.8	149.0	156.2	162.8	161.5	141.2	115.1	107.2	103.9	104.6
7.5°	143.8	143.2	141.2	140.6	144.5	158.9	156.9	137.9	123.6	111.1	98.7
10°	151.7	153.6	155.6	155.6	153.0	143.8	143.2	141.9	136.6	130.7	122.9
12.5°	187.6	190.2	192.2	185.7	177.2	168.0	160.8	149.0	143.8	140.6	134.7
15°	226.8	229.5	226.2	213.8	198.7	181.7	175.2	175.9	168.7	160.2	147.7
17.5°	247.8	246.5	232.7	218.3	206.6	193.5	184.4	178.5	175.9	172.6	160.2
20°	234.7	231.4	222.9	217.0	215.7	208.5	202.7	197.4	194.2	187.0	171.9
22.5°	224.9	224.9	223.6	222.3	230.1	226.8	224.2	217.0	212.5	203.3	181.1
25°	237.3	237.3	238.0	236.0	246.5	246.5	246.5	238.6	232.7	219.7	192.8
27.5°	255.0	254.3	256.3	255.0	264.1	266.1	270.0	264.1	255.6	239.9	205.9
30°	273.9	273.9	275.9	277.2	286.3	290.9	295.5	292.9	282.4	263.5	228.2
32.5°	294.2	293.5	299.4	305.9	311.2	319.7	321.6	328.2	317.7	295.5	260.8
35°	323.6	325.6	341.2	355.0	370.0	375.2	384.4	409.9	399.4	369.4	329.5
37.5°	468.1	458.3	454.3	438.6	436.7	467.4	478.5	502.7	481.8	441.3	380.5
40°	496.2	484.4	479.2	464.1	469.4	532.8	521.7	608.6	557.6	492.9	453.7
42.5°	467.4	465.5	526.9	538.7	532.1	632.8	611.2	772.0	717.8	567.4	523.6
45°	564.2	558.9	585.1	606.0	622.3	803.4	790.4	959.7	936.1	691.0	647.8
47.5°	636.7	631.5	661.6	731.5	827.0	1023.1	1099.6	1355.2	1275.4	950.5	852.5
50°	853.8	850.5	931.6	1006.7	1164.3	1453.9	1663.7	1939.6	1822.6	1327.7	1147.3
52.5°	1059.0	1069.5	1164.3	1308.8	1475.5	1998.4	2297.8	2491.3	2490.0	1729.1	1472.8
55°	1206.1	1241.4	1353.2	1614.0	1845.5	2481.5	2885.5	3028.7	3149.0	2307.0	1793.8
57.5°	1491.8	1553.3	1660.5	1918.7	2217.4	3066.0	3642.6	3619.0	3835.4	2906.5	2142.9
60°	1785.3	1857.2	1893.2	2130.5	2522.7	3628.8	4162.9	4108.0	4325.7	3428.1	2510.3
62.5°	1876.8	1947.4	1982.7	2241.0	2743.0	3947.8	4402.8	4424.4	4559.7	3800.1	2728.0
65°	1934.4	2015.4	2066.4	2299.2	2738.5	4087.1	4597.0	4617.3	4702.2	3960.3	2840.4
67.5°	1923.9	2014.8	2080.2	2288.7	2586.8	3971.4	4548.6	4457.1	4570.8	3845.9	2722.1
70°	1716.0	1795.1	1860.5	2021.3	2159.3	3345.8	3935.4	3784.4	3902.1	3213.1	2247.5
72.5°	1402.2	1434.9	1491.8	1567.6	1636.3	2482.2	3001.9	2872.5	2940.5	2410.3	1684.0
75°	1151.9	1145.3	1196.3	1251.2	1229.7	1813.4	2375.0	2256.7	2320.1	1830.4	1343.4
77.5°	853.8	850.5	924.4	919.8	887.1	1255.8	1882.7	1797.1	1805.6	1351.9	1006.1
80°	513.2	523.0	594.9	609.3	570.7	787.7	1344.1	1303.5	1242.7	923.7	705.4
82.5°	360.2	375.2	413.2	428.8	409.9	575.3	890.4	862.3	790.4	670.1	496.8
85°	367.4	370.0	374.6	375.9	367.4	516.4	691.0	675.3	670.7	561.6	409.9
87.5°	367.4	373.3	377.2	376.5	361.5	483.8	637.4	612.5	618.4	524.9	396.2
90°	329.5	339.9	339.3	341.2	328.8	437.3	577.9	557.6	565.5	473.3	360.2
92.5°	269.3	276.5	283.7	297.4	279.1	372.0	488.3	469.4	479.2	402.7	306.6
95°	250.4	256.9	261.5	268.7	250.4	330.8	432.1	409.2	413.2	341.9	259.5
97.5°	202.7	206.6	211.8	213.1	200.0	254.3	328.8	309.2	311.8	265.4	204.0
100°	170.0	173.2	177.8	177.8	169.3	210.5	260.2	249.7	248.4	217.0	172.6
102.5°	160.8	162.1	169.3	168.0	159.5	194.2	235.3	228.8	229.5	201.3	162.1
105°	158.2	158.2	165.4	162.1	154.9	185.0	220.3	218.3	217.7	191.5	155.6
107.5°	155.6	155.6	162.8	159.5	153.6	174.5	207.2	200.7	200.0	182.4	147.1
110°	145.1	147.1	154.9	151.0	146.4	164.7	190.2	185.7	185.7	171.9	140.6



REPORT NUMBER: P856233
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	128.8	130.1	137.3	134.0	130.7	146.4	168.7	162.8	163.4	154.3	131.4
115°	120.3	122.2	129.4	124.9	122.2	136.6	156.2	152.3	153.6	145.1	124.2
117.5°	120.9	121.6	126.8	127.5	122.2	134.0	144.5	145.8	147.7	142.5	126.2
120°	147.1	143.8	146.4	143.2	140.6	154.3	166.7	168.0	167.4	157.5	125.5
122.5°	148.4	141.9	149.0	144.5	141.9	156.9	170.6	173.9	170.6	162.1	128.1
125°	118.3	120.3	120.9	122.2	124.9	141.2	148.4	149.0	149.7	147.1	124.2
127.5°	103.9	103.3	100.0	100.7	106.6	120.9	126.2	130.1	127.5	126.2	111.8
130°	99.4	100.7	100.0	100.0	103.3	114.4	118.3	124.2	122.2	119.6	102.0
132.5°	91.5	92.8	98.7	105.9	104.6	108.5	109.8	115.7	116.4	116.4	102.6
135°	86.9	88.3	92.8	102.0	99.4	101.3	100.7	105.9	106.6	107.2	96.8
137.5°	88.9	89.6	86.9	88.3	90.2	98.7	101.3	106.6	106.6	103.9	90.2
140°	93.5	93.5	87.6	85.6	89.6	102.6	107.9	116.4	115.1	110.5	93.5
142.5°	86.3	87.6	90.9	94.8	103.3	139.2	139.2	155.6	160.8	162.1	113.1
145°	112.4	113.1	114.4	116.4	132.7	182.4	166.0	177.8	182.4	187.0	136.0
147.5°	129.4	130.7	129.4	124.2	139.2	156.2	148.4	153.6	158.9	160.2	136.6
150°	101.3	100.0	99.4	98.7	115.1	120.3	113.7	113.1	117.0	120.3	105.9
152.5°	73.9	73.2	72.6	71.9	86.3	83.0	78.4	78.4	79.8	80.4	74.5
155°	65.4	64.7	63.4	64.1	73.2	69.9	66.0	64.7	66.0	65.4	62.1
157.5°	53.6	52.3	52.3	54.9	59.5	55.6	53.0	51.0	51.6	51.0	51.6
160°	44.5	43.8	44.5	47.7	50.3	47.1	44.5	43.1	43.1	44.5	47.1
162.5°	39.9	39.2	39.9	41.2	42.5	39.2	37.3	37.3	37.9	40.5	45.8
165°	34.6	34.6	35.3	36.0	36.6	34.6	34.0	34.0	35.3	39.2	45.1
167.5°	33.3	33.3	33.3	33.3	33.3	32.7	32.0	34.0	35.3	37.3	41.2
170°	32.7	32.0	32.7	32.7	32.7	32.7	32.7	34.6	34.6	35.3	37.3
172.5°	33.3	33.3	33.3	34.0	35.3	36.0	35.3	36.6	36.0	36.0	36.0
175°	34.0	34.0	34.6	35.3	36.0	36.6	37.3	37.3	37.3	37.9	37.9
177.5°	34.0	34.0	34.6	35.3	36.0	34.6	33.3	32.7	32.0	32.0	32.0
180°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1



REPORT NUMBER: P856233

CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6
2.5°	185.0	168.7	145.8	155.6	185.7	179.8	149.7	131.4	132.7	145.8	147.1
5°	107.9	111.1	126.2	157.5	163.4	135.3	109.2	105.2	126.8	156.9	162.8
7.5°	97.4	97.4	109.8	153.0	171.9	141.2	106.6	96.1	112.4	137.3	141.2
10°	117.7	113.7	115.1	130.7	137.9	113.1	95.4	90.9	100.0	103.3	102.0
12.5°	132.7	135.3	147.7	144.5	113.1	92.2	86.3	85.6	90.9	94.1	93.5
15°	142.5	137.9	128.8	118.3	107.9	96.1	87.6	82.4	76.5	73.9	73.9
17.5°	151.7	142.5	126.2	116.4	105.9	97.4	89.6	81.7	79.1	79.8	79.8
20°	162.8	151.7	136.6	125.5	113.1	101.3	91.5	83.0	81.1	81.7	81.1
22.5°	171.3	161.5	145.8	131.4	118.3	105.2	95.4	86.9	84.3	83.7	83.7
25°	181.7	173.2	156.9	139.2	123.6	111.1	102.6	92.8	88.3	86.9	86.9
27.5°	195.5	188.3	170.0	151.0	132.7	118.3	109.2	98.7	92.2	89.6	88.9
30°	216.4	206.6	186.3	162.8	143.8	128.8	117.7	104.6	96.8	92.2	91.5
32.5°	247.8	235.3	208.5	179.1	156.2	140.6	126.8	110.5	100.7	95.4	94.8
35°	314.4	300.7	266.7	225.5	192.2	160.2	138.6	117.0	104.6	98.1	97.4
37.5°	356.3	331.4	290.3	253.0	212.5	193.5	166.0	137.3	109.8	101.3	100.0
40°	417.1	385.0	333.4	283.1	211.8	211.2	192.8	167.4	129.4	107.2	105.2
42.5°	462.2	421.0	356.3	300.1	213.8	219.7	204.0	181.7	153.6	124.9	121.6
45°	554.4	502.1	399.4	315.1	216.4	229.5	213.8	190.2	165.4	145.1	143.2
47.5°	726.9	654.4	483.1	343.9	245.8	262.1	234.0	206.6	182.4	162.1	157.5
50°	968.2	881.2	584.4	369.4	296.1	333.4	287.6	245.8	217.0	201.3	196.8
52.5°	1251.2	1153.8	647.8	409.2	356.9	421.0	370.7	321.6	283.7	286.3	283.7
55°	1567.0	1451.9	703.4	469.4	434.7	518.4	463.5	421.0	400.7	457.6	460.9
57.5°	1871.6	1748.7	738.1	532.8	521.7	630.8	566.8	536.7	544.6	711.3	750.5
60°	2162.5	1968.4	764.9	592.3	594.9	719.1	670.1	664.2	688.4	902.1	961.6
62.5°	2330.5	2080.8	763.6	630.8	640.7	773.4	730.2	733.5	751.8	933.5	983.2
65°	2444.9	2137.7	750.5	650.5	660.3	793.0	737.4	711.9	700.1	824.3	877.3
67.5°	2376.3	2027.9	719.1	633.5	646.5	761.6	692.3	628.2	608.0	675.3	706.7
70°	2008.9	1694.5	640.7	575.9	584.4	642.6	583.8	513.8	493.6	528.9	543.2
72.5°	1518.0	1300.9	574.6	532.1	511.9	531.5	474.0	400.7	396.2	415.1	417.7
75°	1212.7	1021.1	523.6	479.8	425.6	445.8	376.5	298.1	292.2	293.5	287.0
77.5°	913.9	759.6	440.6	377.9	322.3	355.6	279.8	205.9	196.1	192.2	185.0
80°	625.6	527.6	299.4	253.0	228.8	260.8	199.4	151.0	150.4	149.0	141.2
82.5°	443.9	407.3	244.5	215.1	194.2	205.3	173.2	141.2	137.9	138.6	130.1
85°	388.3	368.7	236.0	217.7	197.4	196.8	165.4	132.1	130.7	131.4	123.6
87.5°	371.3	349.7	230.8	207.9	188.3	178.5	145.8	116.4	119.6	121.6	114.4
90°	332.7	310.5	209.2	185.7	166.7	149.7	123.6	105.2	110.5	111.8	105.2
92.5°	280.4	257.6	162.8	149.0	139.9	137.3	115.7	100.0	103.9	104.6	99.4
95°	237.3	216.4	141.9	131.4	124.9	124.2	104.6	90.9	92.8	92.2	87.6
97.5°	190.9	175.9	124.2	114.4	107.2	103.3	89.6	79.1	81.7	83.0	79.8
100°	162.8	154.3	115.7	107.2	98.7	93.5	81.7	73.2	75.8	78.4	75.8
102.5°	153.0	146.4	113.7	104.6	95.4	88.9	77.8	68.6	69.9	73.2	71.3
105°	145.1	139.2	110.5	100.7	92.2	85.0	75.8	64.7	64.1	67.3	66.7
107.5°	136.6	131.4	108.5	96.8	87.6	81.1	72.6	62.1	59.5	61.5	60.8
110°	132.1	126.8	104.6	92.2	82.4	76.5	68.6	60.1	56.9	57.5	57.5



REPORT NUMBER: P856233

CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	122.9	117.0	96.1	84.3	76.5	71.3	63.4	57.5	53.6	54.9	55.6
115°	117.0	109.2	88.3	79.8	71.3	66.7	62.1	56.9	52.3	52.3	53.0
117.5°	120.9	105.9	82.4	75.8	71.3	69.9	68.6	60.8	51.6	51.0	51.0
120°	115.7	106.6	89.6	87.6	83.0	79.1	70.6	60.1	50.3	49.0	49.0
122.5°	113.1	111.1	101.3	94.8	86.3	78.4	66.0	54.9	48.4	47.1	47.1
125°	111.8	109.8	98.1	85.6	74.5	66.7	58.8	51.6	47.7	45.8	45.8
127.5°	102.6	93.5	79.1	71.9	64.7	61.5	54.9	50.3	45.8	43.1	43.1
130°	94.8	86.3	73.9	66.0	60.1	57.5	53.0	48.4	43.8	41.2	40.5
132.5°	93.5	85.0	71.9	62.1	56.9	54.3	51.6	46.4	41.2	38.6	37.9
135°	86.9	77.1	64.1	58.8	55.6	53.6	51.6	45.1	39.9	37.3	37.3
137.5°	80.4	70.6	60.8	58.2	55.6	53.6	47.7	41.2	37.3	35.3	35.3
140°	81.1	69.9	62.1	60.1	56.2	50.3	45.1	40.5	37.3	34.6	34.0
142.5°	86.3	72.6	62.8	56.9	54.3	51.0	49.0	43.8	37.3	32.7	31.4
145°	94.8	78.4	70.6	68.0	63.4	57.5	50.3	40.5	34.0	30.1	29.4
147.5°	104.6	88.3	79.1	71.9	62.8	53.0	43.1	35.3	30.1	28.8	28.1
150°	90.9	75.2	68.0	58.2	50.3	42.5	35.3	31.4	28.8	28.1	28.1
152.5°	68.6	56.2	50.3	45.8	41.2	37.3	33.3	30.7	28.8	27.5	27.5
155°	59.5	53.0	47.1	42.5	37.9	34.0	30.7	29.4	27.5	27.5	26.8
157.5°	52.3	49.0	41.2	37.3	34.0	32.0	30.7	28.8	28.1	27.5	27.5
160°	47.7	45.8	37.9	34.6	32.7	31.4	31.4	30.1	28.1	27.5	27.5
162.5°	46.4	44.5	36.6	33.3	31.4	32.0	33.3	32.7	30.1	28.8	28.8
165°	45.8	44.5	37.3	32.7	31.4	32.0	35.3	36.0	32.7	30.7	30.1
167.5°	41.8	41.2	39.2	36.0	34.0	34.0	36.0	36.6	35.3	35.3	34.6
170°	37.9	37.9	38.6	39.2	37.9	36.0	34.6	34.6	36.6	38.6	39.2
172.5°	36.6	37.3	38.6	40.5	40.5	37.9	36.0	35.3	37.3	39.9	40.5
175°	38.6	39.2	39.9	39.9	38.6	37.9	37.3	36.6	37.9	40.5	41.2
177.5°	32.0	32.0	32.7	32.7	32.0	32.7	32.0	30.7	30.7	30.7	30.7
180°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1

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: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

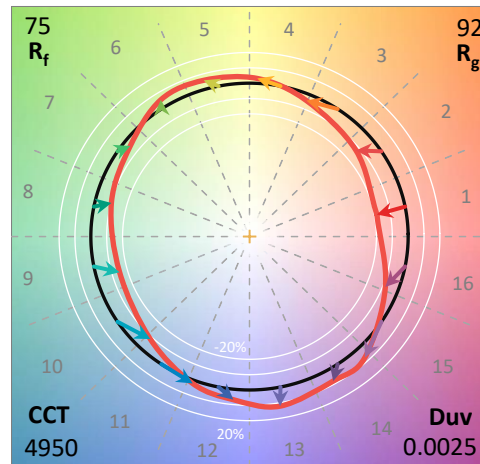
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 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-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



Test Conditions

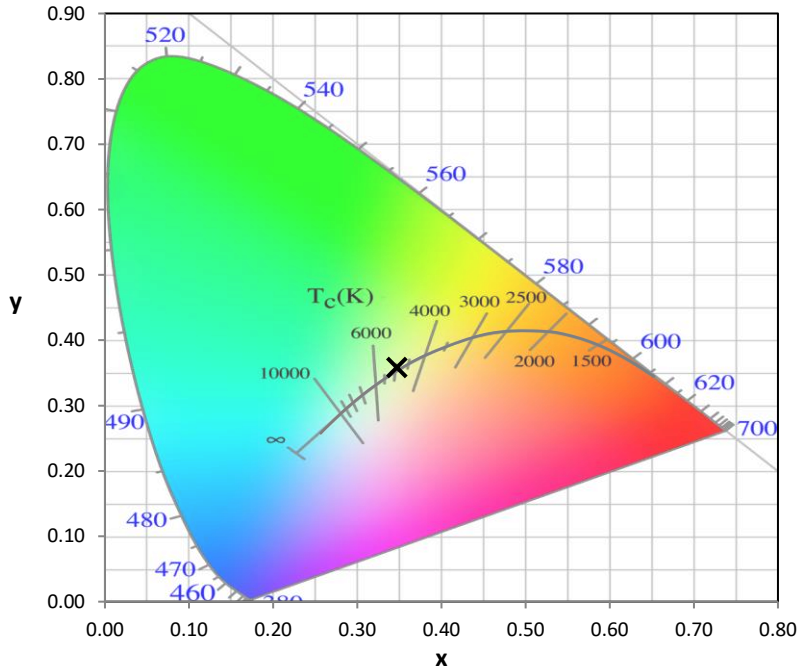
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

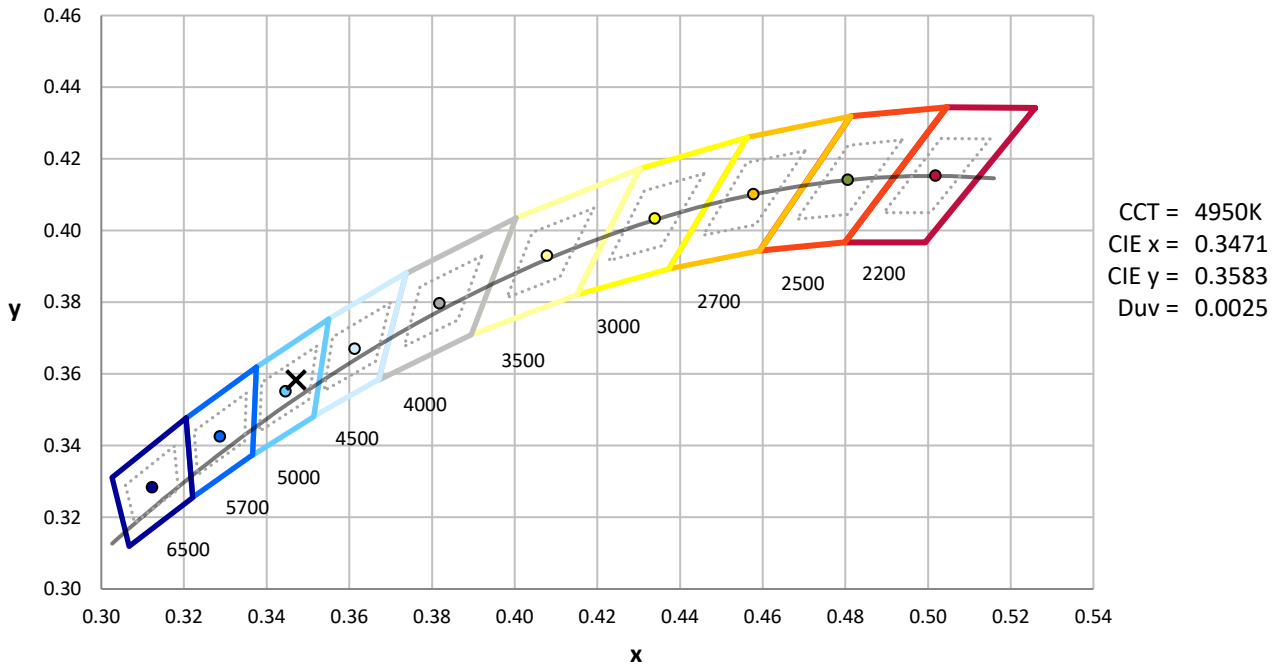
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-5

CIE 1931 Chromaticity Diagram



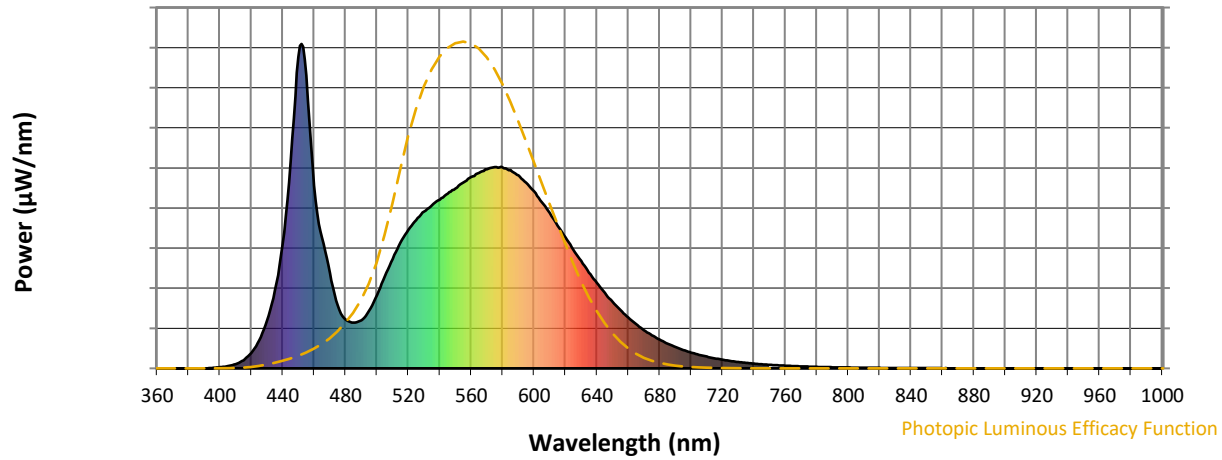
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

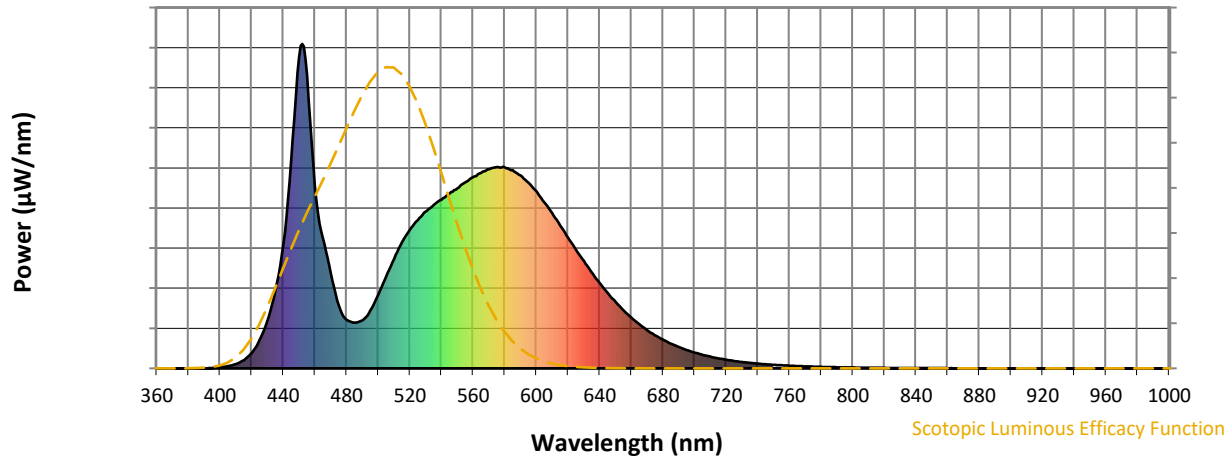


Photopic Lumens: NR

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

Scotopic Flux vs. Wavelength



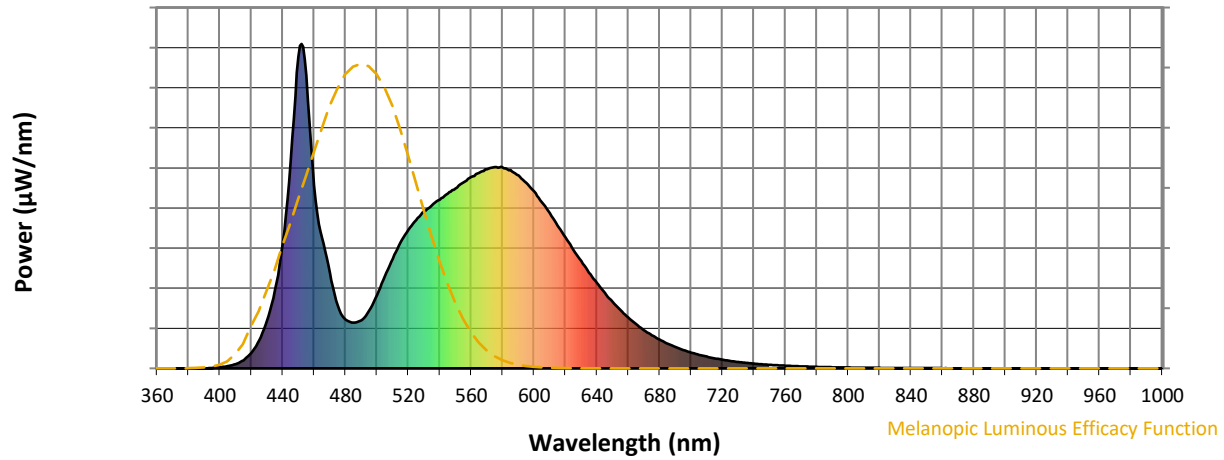
Scotopic Lumens: NR

S/P: 1.8

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

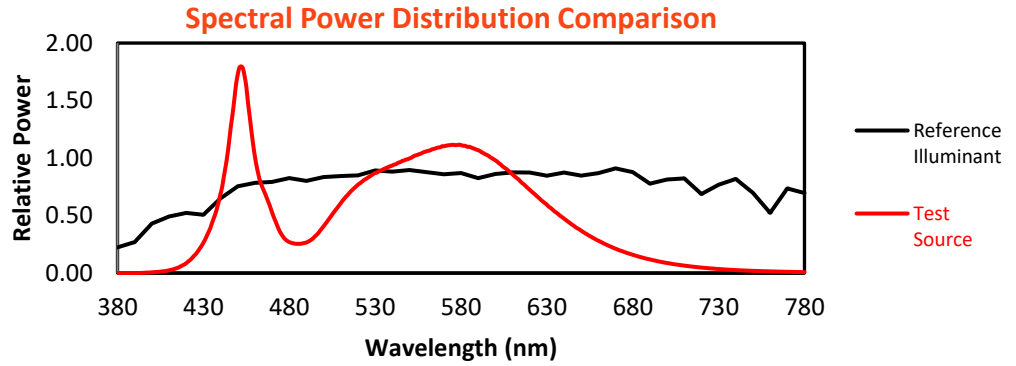
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

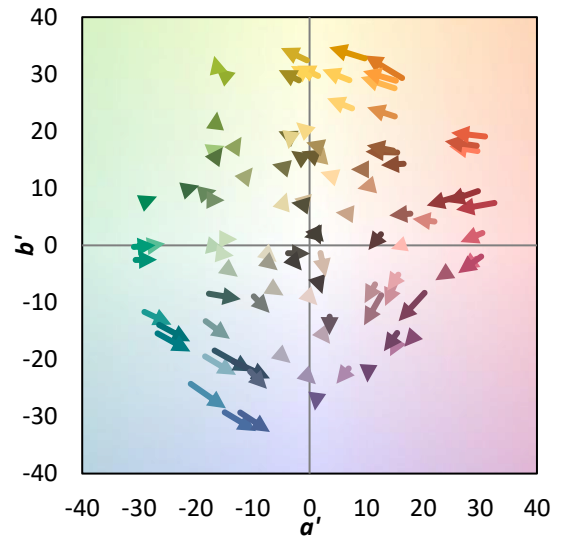
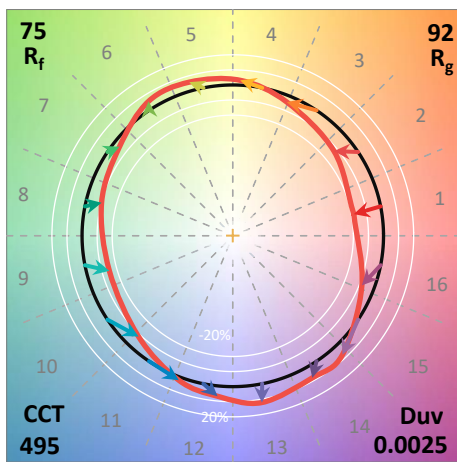
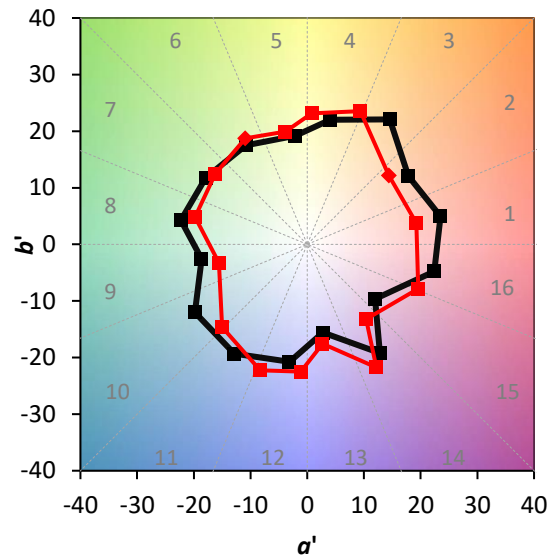
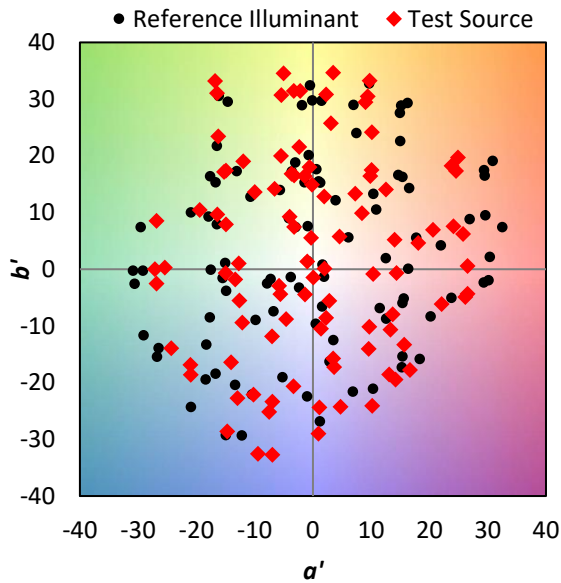
TM-30-18

Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_9 = -35.4$



Color Vector Graphics

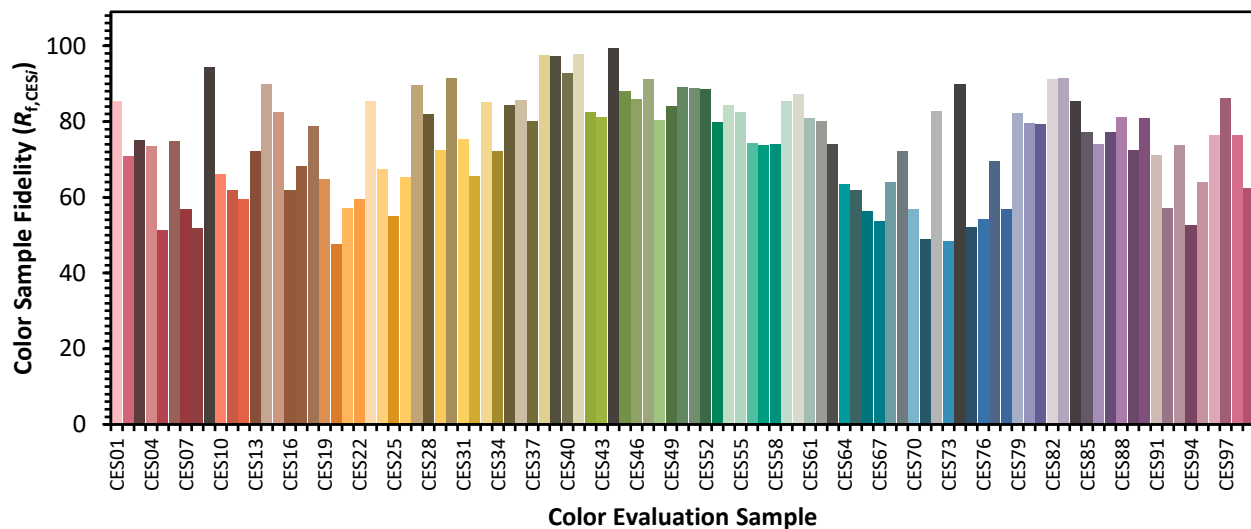


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

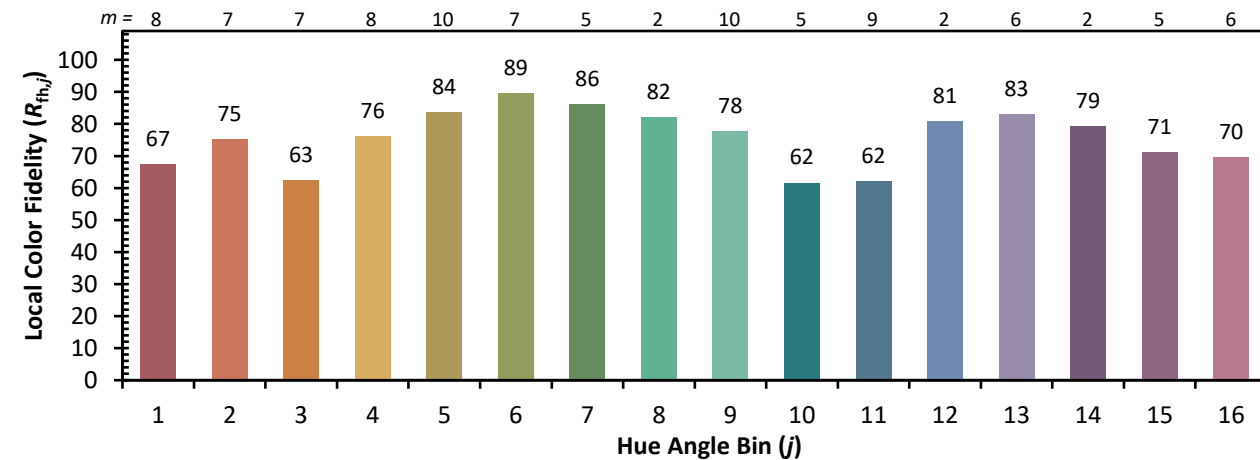
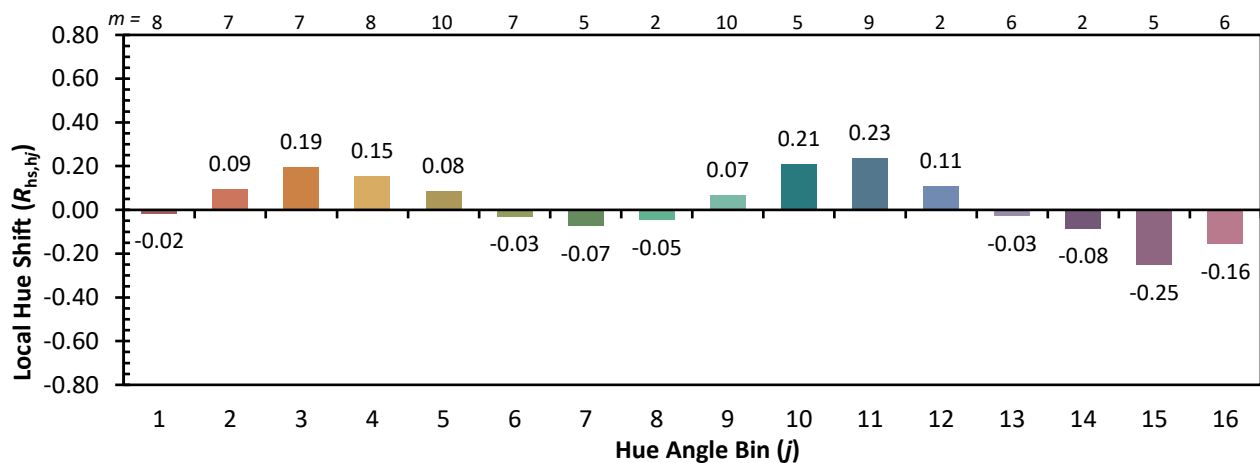
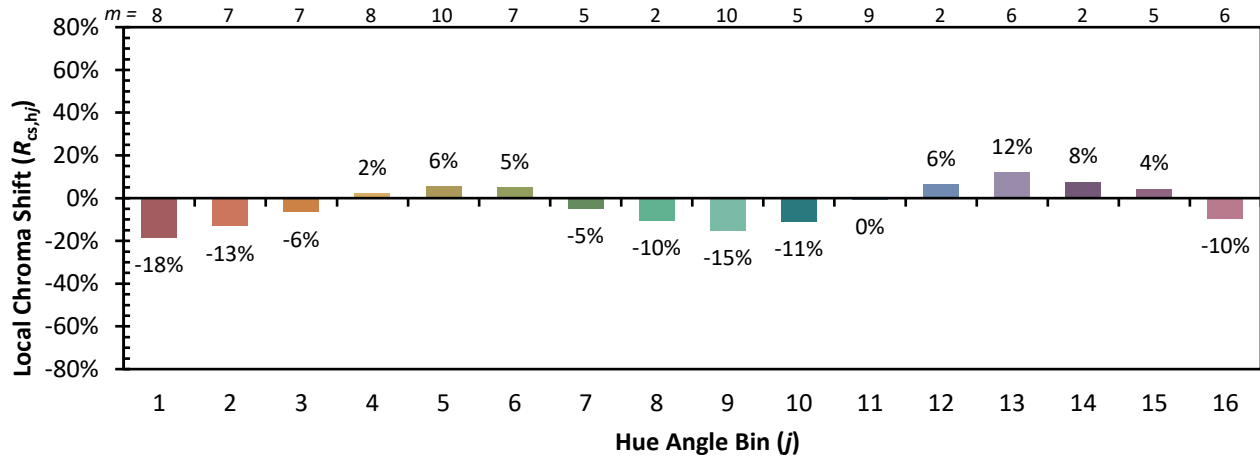
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



REPORT NUMBER: SP1-2406-133-5

TM-30-18

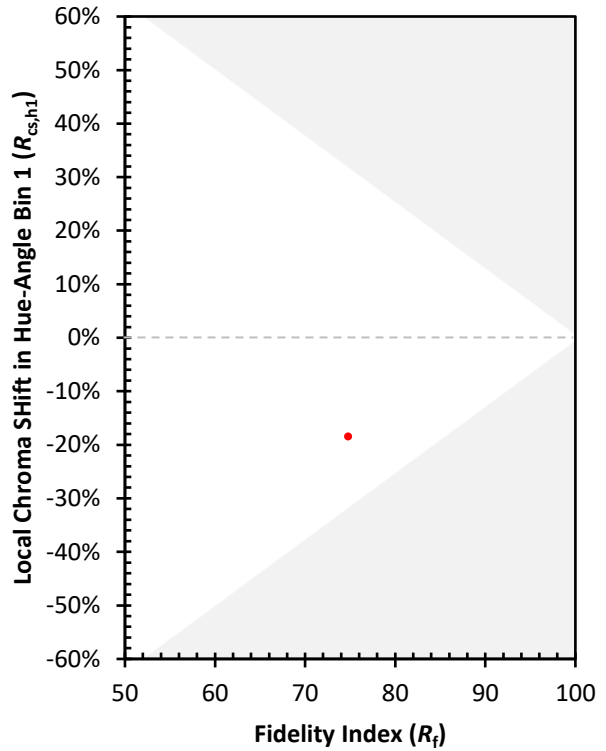
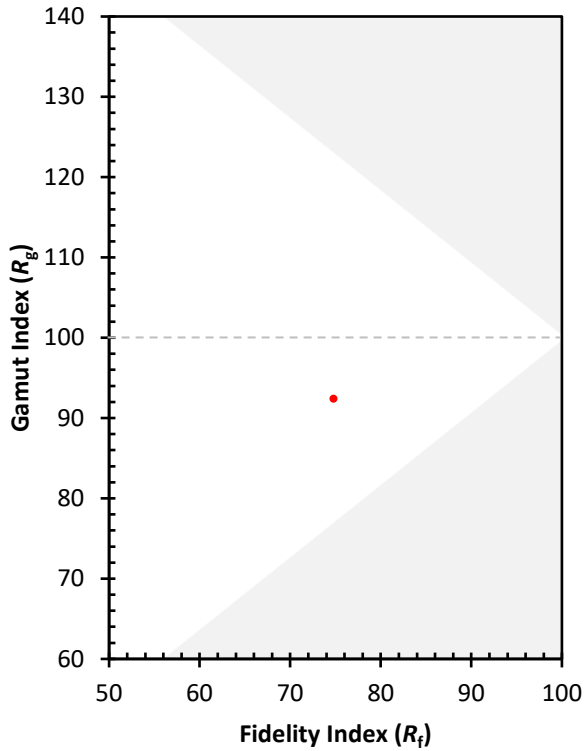
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)