

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: P856139

Luminaire Tested: **FFX-CLB-80-750-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856139
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-750-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

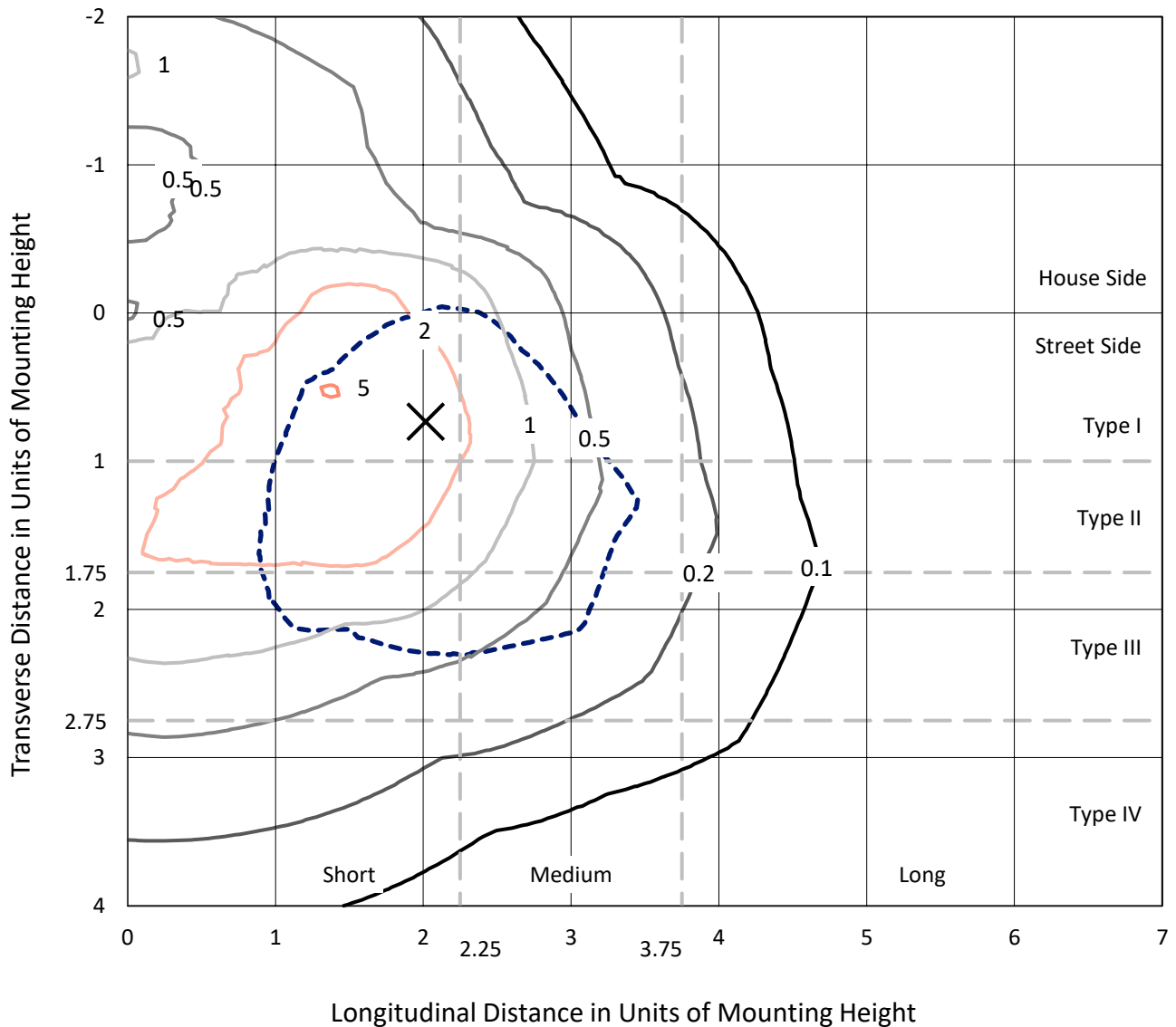
Lumens per Lamp: N/A
Luminaire Lumens: 12529.4 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856139
 CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

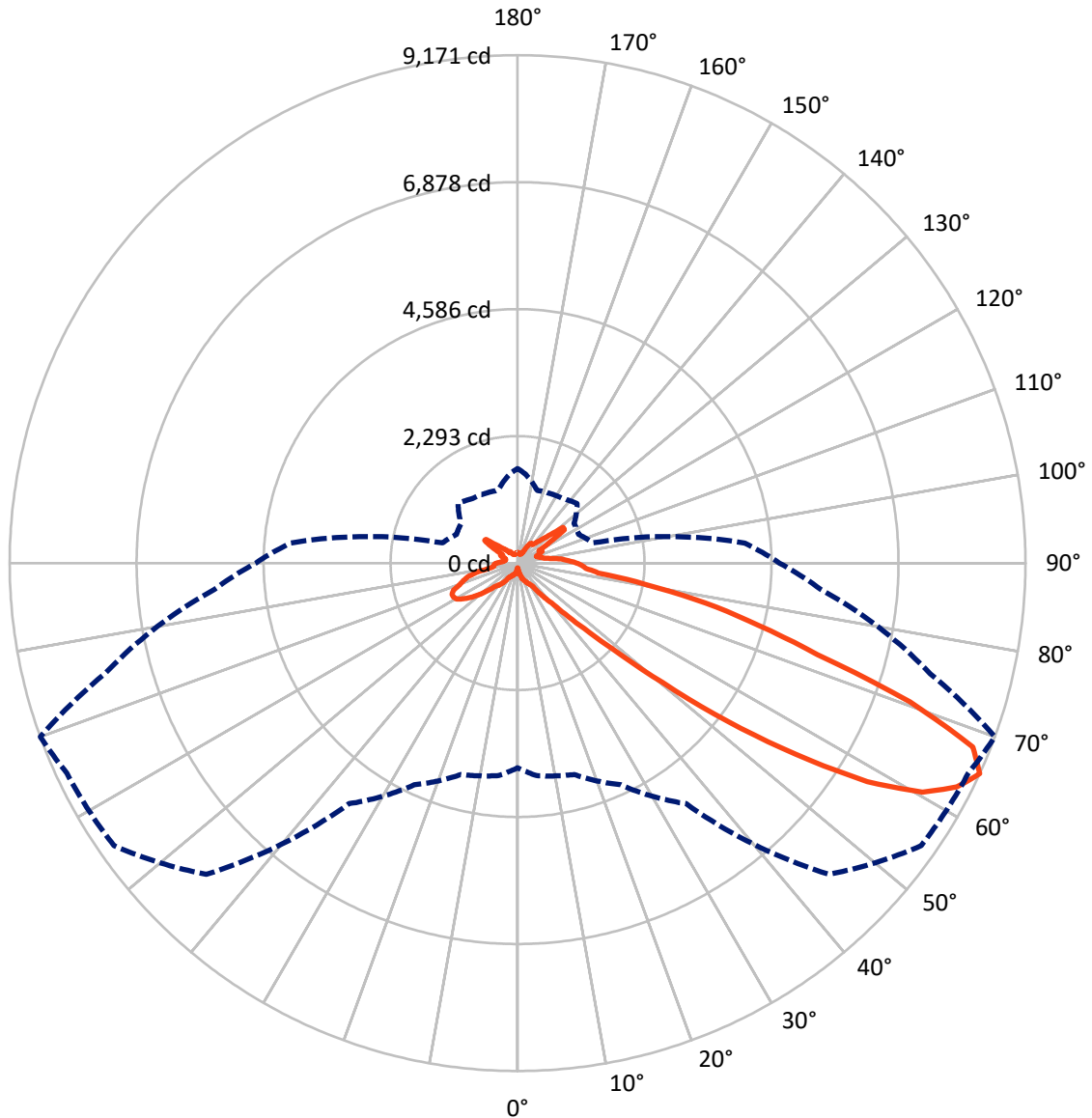
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P856139
CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P856139
 CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

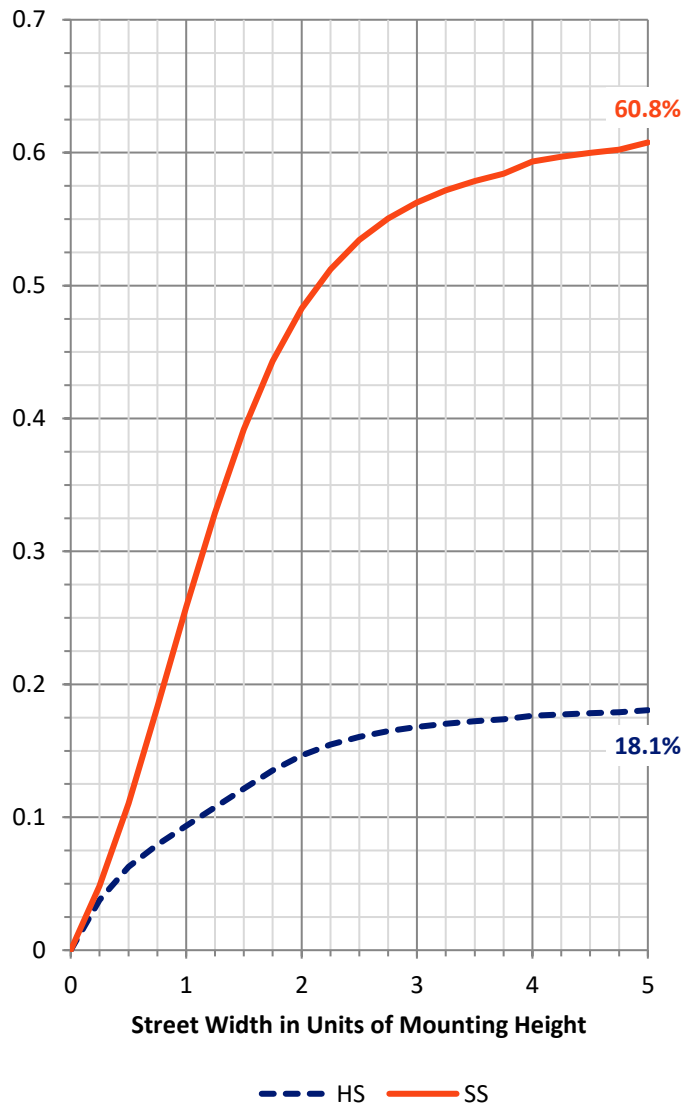
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2360.2	842.0	3202.2
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	7870.3	1457.0	9327.3
	% Fixture	62.8	11.6	74.4
Total	Lumens	10230.5	2299.0	12529.4
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.1
10°-20°	65.6	0.5
20°-30°	139.3	1.1
30°-40°	283.7	2.3
40°-50°	721.5	5.8
50°-60°	2318.8	18.5
60°-70°	3784.2	30.2
70°-80°	2154.3	17.2
80°-90°	749.6	6.0
90°-100°	466.5	3.7
100°-110°	297.1	2.4
110°-120°	326.8	2.6
120°-130°	552.7	4.4
130°-140°	325.8	2.6
140°-150°	175.4	1.4
150°-160°	88.6	0.7
160°-170°	48.5	0.4
170°-180°	17.5	0.1
0°-90°	10230.5	81.7
0°-180°	12529.4	100.0

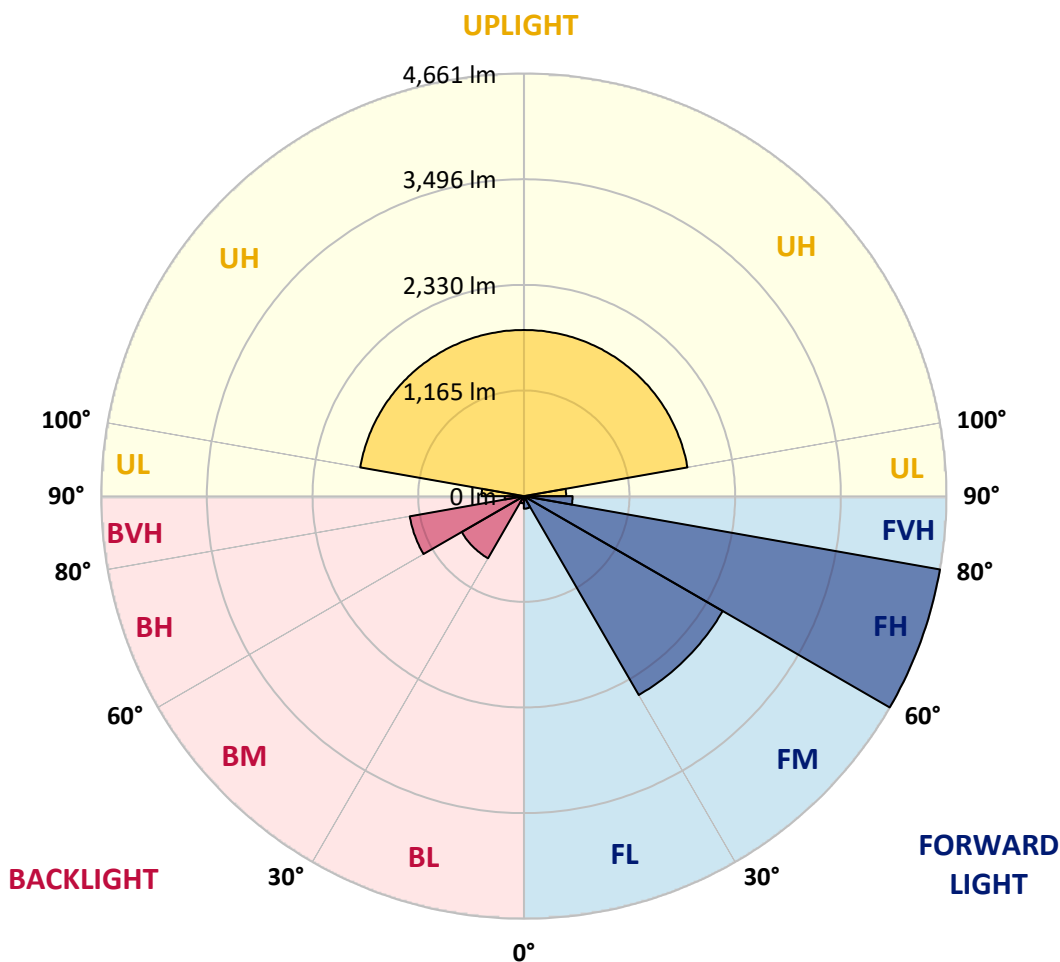


REPORT NUMBER: P856139
 CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.1	1.1			
FM (30°-60°)	2533.0	20.2			
FH (60°-80°)	4660.8	37.2			G2/5000
FVH (80°-90°)	537.5	4.3			G4/750
BL (0°-30°)	79.3	0.6	B0/110		
BM (30°-60°)	791.0	6.3	B1/1000		
BH (60°-80°)	1277.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	212.1	1.7			G2/225
UL (90°-100°)	466.5	3.7		U3/500	
UH (100°-180°)	1832.5	14.6		U5	

BUG Rating: B3-U5-G4
 Type III Short





REPORT NUMBER: P856139

CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2.5°	99.4	99.4	102.0	102.0	102.0	99.4	98.1	95.5	95.5	95.5	94.3
5°	129.1	127.8	129.1	133.0	134.3	130.4	127.8	124.0	124.0	122.7	122.7
7.5°	174.3	173.0	170.4	166.6	167.9	171.7	176.9	166.6	164.0	157.5	154.9
10°	218.2	215.6	218.2	211.7	205.3	196.3	201.4	198.8	193.7	187.2	182.1
12.5°	266.0	267.3	272.4	267.3	256.9	242.7	240.2	233.7	228.5	227.2	219.5
15°	315.0	316.3	321.5	320.2	309.9	290.5	282.8	276.3	273.7	266.0	249.2
17.5°	340.9	342.2	343.4	344.7	338.3	322.8	311.2	299.5	295.7	293.1	272.4
20°	353.8	351.2	353.8	358.9	364.1	351.2	339.6	333.1	329.2	320.2	293.1
22.5°	374.4	371.9	370.6	374.4	389.9	380.9	369.3	362.8	358.9	347.3	306.0
25°	396.4	393.8	397.7	395.1	414.5	410.6	399.0	392.5	387.3	373.1	325.4
27.5°	420.9	418.3	422.2	419.6	435.1	437.7	430.0	424.8	417.0	396.4	339.6
30°	441.6	439.0	442.9	441.6	457.1	466.1	462.2	460.9	449.3	424.8	364.1
32.5°	458.4	457.1	466.1	470.0	473.9	494.5	491.9	503.6	490.6	460.9	400.3
35°	497.1	501.0	525.5	551.3	555.2	596.5	601.7	644.3	631.4	592.6	519.0
37.5°	768.2	754.0	729.5	705.0	695.9	776.0	787.6	830.2	797.9	725.6	606.8
40°	818.6	795.4	766.9	747.6	750.2	893.5	868.9	1030.3	938.7	830.2	741.1
42.5°	777.3	769.5	868.9	915.4	881.9	1091.0	1049.7	1357.0	1252.4	986.4	894.8
45°	974.8	959.3	994.2	1040.7	1051.0	1435.8	1407.4	1728.9	1686.2	1233.1	1147.8
47.5°	1115.6	1101.4	1147.8	1305.4	1440.9	1856.7	2011.6	2475.1	2325.4	1752.1	1554.5
50°	1537.8	1535.2	1678.5	1865.7	2103.3	2701.1	3113.0	3633.3	3391.9	2480.3	2131.7
52.5°	1954.8	1960.0	2135.6	2467.4	2714.0	3770.2	4355.1	4719.2	4751.4	3234.3	2763.1
55°	2269.8	2302.1	2513.9	3070.4	3443.5	4721.7	5480.9	5763.7	6086.5	4370.6	3420.3
57.5°	2884.4	2933.5	3134.9	3679.8	4201.4	5907.0	6932.2	6963.2	7444.8	5630.7	4125.2
60°	3421.6	3536.5	3607.5	4102.0	4813.4	7039.4	8010.3	7948.3	8400.2	6675.3	4840.5
62.5°	3588.1	3719.8	3787.0	4313.7	5297.6	7674.6	8513.9	8591.3	8902.5	7408.6	5278.2
65°	3696.6	3851.5	3952.2	4418.3	5302.8	7945.8	8896.1	8978.7	9171.1	7715.9	5496.4
67.5°	3641.1	3838.6	3967.7	4382.2	5023.9	7736.6	8819.9	8661.1	8865.1	7459.0	5252.4
70°	3178.8	3385.4	3515.8	3824.4	4200.1	6504.8	7603.6	7337.6	7517.1	6225.9	4318.9
72.5°	2590.1	2692.1	2772.1	2941.2	3165.9	4797.9	5777.9	5557.1	5664.3	4684.3	3236.9
75°	2127.8	2158.8	2258.2	2355.1	2392.5	3509.4	4577.1	4375.7	4501.0	3566.2	2575.9
77.5°	1545.5	1563.6	1705.6	1721.1	1712.1	2408.0	3607.5	3430.6	3470.6	2650.7	1922.5
80°	897.4	932.2	1118.1	1109.1	1093.6	1483.5	2539.7	2468.7	2344.7	1799.9	1331.2
82.5°	632.7	667.5	752.7	772.1	761.8	1065.2	1648.8	1602.3	1468.0	1252.4	920.6
85°	666.2	670.1	674.0	683.0	666.2	950.3	1262.7	1239.5	1240.8	1035.5	759.2
87.5°	657.2	672.7	679.1	683.0	666.2	902.5	1173.7	1144.0	1158.2	983.9	737.2
90°	577.1	605.6	608.1	614.6	605.6	805.7	1053.6	1025.2	1043.3	887.0	671.4
92.5°	471.3	486.8	504.8	529.4	519.0	689.5	896.1	875.4	897.4	768.2	590.1
95°	446.7	463.5	475.1	491.9	476.4	628.8	809.6	768.2	786.3	672.7	508.7
97.5°	369.3	383.5	393.8	400.3	388.6	495.8	621.0	592.6	591.3	520.3	406.7
100°	315.0	324.1	333.1	339.6	329.2	410.6	491.9	481.6	484.2	430.0	349.9
102.5°	299.5	304.7	318.9	320.2	308.6	374.4	442.9	439.0	444.2	397.7	328.0
105°	293.1	297.0	308.6	304.7	294.4	349.9	408.0	410.6	410.6	370.6	307.3
107.5°	273.7	280.2	293.1	286.6	281.5	322.8	375.7	366.7	369.3	344.7	291.8
110°	271.1	276.3	289.2	284.1	280.2	315.0	361.5	358.9	362.8	340.9	299.5



REPORT NUMBER: P856139
 CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	337.0	331.8	342.2	331.8	338.3	368.0	417.0	411.9	423.5	415.8	374.4
115°	415.8	418.3	428.7	408.0	414.5	444.2	471.3	480.3	490.6	479.0	436.4
117.5°	384.8	406.7	393.8	391.2	386.1	409.3	405.4	428.7	439.0	430.0	413.2
120°	411.9	439.0	401.5	382.2	374.4	432.5	460.9	459.7	451.9	433.8	399.0
122.5°	615.9	619.8	622.3	680.4	659.8	716.6	733.4	711.4	711.4	734.7	663.7
125°	960.6	964.5	961.9	987.7	973.5	1027.8	1049.7	1048.4	1035.5	1023.9	954.2
127.5°	970.9	970.9	961.9	947.7	960.6	1013.6	1014.8	1063.9	1047.1	1016.1	951.6
130°	677.9	683.0	715.3	725.6	743.7	755.3	742.4	785.0	792.8	787.6	743.7
132.5°	561.7	570.7	605.6	618.5	630.1	631.4	626.2	659.8	667.5	667.5	648.2
135°	485.5	495.8	499.7	493.2	510.0	522.9	533.2	560.4	557.8	552.6	535.8
137.5°	423.5	427.4	415.8	401.5	410.6	448.0	468.7	497.1	495.8	486.8	458.4
140°	357.6	358.9	352.5	346.0	355.1	387.3	406.7	437.7	433.8	427.4	393.8
142.5°	271.1	275.0	291.8	304.7	326.7	393.8	383.5	410.6	430.0	445.4	368.0
145°	285.3	280.2	277.6	291.8	320.2	417.0	387.3	422.2	431.2	441.6	352.5
147.5°	329.2	331.8	328.0	318.9	357.6	388.6	371.9	402.8	408.0	405.4	369.3
150°	258.2	262.1	263.4	259.5	307.3	306.0	289.2	312.5	315.0	315.0	290.5
152.5°	210.5	211.7	209.2	206.6	237.6	232.4	224.7	232.4	231.1	229.8	224.7
155°	200.1	200.1	197.5	198.8	219.5	214.3	209.2	214.3	211.7	207.9	202.7
157.5°	184.6	185.9	185.9	189.8	202.7	193.7	188.5	191.1	188.5	185.9	185.9
160°	174.3	174.3	175.6	180.8	188.5	179.5	175.6	176.9	175.6	173.0	174.3
162.5°	170.4	170.4	171.7	174.3	175.6	170.4	166.6	166.6	166.6	166.6	170.4
165°	167.9	167.9	167.9	169.1	169.1	165.3	164.0	165.3	166.6	167.9	173.0
167.5°	173.0	173.0	173.0	173.0	171.7	169.1	167.9	169.1	170.4	171.7	175.6
170°	180.8	179.5	179.5	178.2	176.9	174.3	173.0	171.7	171.7	173.0	174.3
172.5°	185.9	185.9	184.6	184.6	183.3	180.8	178.2	176.9	176.9	176.9	176.9
175°	192.4	192.4	192.4	192.4	191.1	188.5	187.2	184.6	184.6	184.6	184.6
177.5°	200.1	200.1	200.1	200.1	197.5	195.0	192.4	189.8	189.8	189.8	188.5
180°	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1



REPORT NUMBER: P856139

CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2.5°	93.0	91.7	87.8	86.5	85.2	82.6	80.1	78.8	77.5	77.5	78.8
5°	124.0	122.7	122.7	118.8	114.9	108.5	105.9	105.9	107.2	108.5	111.0
7.5°	156.2	158.8	161.4	154.9	143.3	127.8	118.8	121.4	127.8	133.0	133.0
10°	180.8	180.8	189.8	182.1	162.7	143.3	130.4	127.8	129.1	130.4	131.7
12.5°	215.6	215.6	210.5	189.8	170.4	151.1	140.7	138.2	138.2	133.0	131.7
15°	241.4	233.7	215.6	196.3	179.5	160.1	148.5	144.6	140.7	136.9	135.6
17.5°	256.9	242.7	218.2	200.1	183.3	167.9	156.2	148.5	144.6	145.9	145.9
20°	275.0	259.5	237.6	218.2	197.5	176.9	162.7	151.1	147.2	148.5	147.2
22.5°	289.2	273.7	251.8	229.8	207.9	185.9	169.1	154.9	149.8	151.1	151.1
25°	306.0	293.1	269.9	244.0	216.9	196.3	179.5	162.7	154.9	153.6	153.6
27.5°	322.8	313.8	289.2	258.2	229.8	205.3	188.5	169.1	160.1	156.2	156.2
30°	344.7	334.4	309.9	272.4	241.4	218.2	200.1	179.5	166.6	160.1	158.8
32.5°	379.6	368.0	338.3	298.3	254.4	231.1	211.7	188.5	171.7	164.0	162.7
35°	493.2	475.1	428.7	382.2	311.2	258.2	226.0	196.3	176.9	166.6	165.3
37.5°	564.2	520.3	458.4	427.4	349.9	316.3	272.4	224.7	184.6	171.7	169.1
40°	679.1	618.5	541.0	480.3	340.9	346.0	318.9	280.2	219.5	180.8	176.9
42.5°	776.0	699.8	582.3	503.6	342.2	361.5	340.9	308.6	263.4	214.3	206.6
45°	956.7	858.6	676.6	541.0	351.2	384.8	358.9	325.4	285.3	251.8	247.9
47.5°	1292.4	1159.5	845.7	603.0	410.6	446.7	400.3	356.4	320.2	281.5	275.0
50°	1768.9	1610.1	1040.7	652.0	512.6	588.8	504.8	431.2	389.9	361.5	357.6
52.5°	2317.6	2151.1	1184.0	742.4	636.5	764.4	667.5	582.3	528.1	528.1	535.8
55°	2955.5	2788.9	1298.9	867.7	788.9	958.0	853.5	783.7	757.9	867.7	897.4
57.5°	3588.1	3376.4	1376.4	995.5	967.1	1185.3	1060.0	1000.6	1048.4	1373.8	1474.5
60°	4165.3	3815.4	1437.1	1116.8	1119.4	1366.0	1273.1	1269.2	1342.8	1758.6	1886.4
62.5°	4498.4	4021.9	1433.2	1186.6	1208.5	1478.4	1400.9	1421.6	1462.9	1823.1	1919.9
65°	4726.9	4120.1	1403.5	1217.6	1246.0	1518.4	1421.6	1386.7	1359.6	1613.9	1706.9
67.5°	4569.4	3890.2	1336.3	1172.4	1222.7	1460.3	1332.5	1233.1	1180.1	1309.2	1372.5
70°	3827.0	3244.7	1182.7	1054.9	1101.4	1230.5	1107.8	1009.7	954.2	1023.9	1053.6
72.5°	2898.6	2468.7	1066.5	986.4	965.8	1017.4	901.2	791.5	757.9	803.1	809.6
75°	2308.6	1931.6	981.3	892.2	810.8	861.2	719.2	586.2	566.8	566.8	556.5
77.5°	1731.4	1431.9	836.7	694.6	597.8	680.4	535.8	408.0	382.2	377.0	362.8
80°	1160.7	974.8	562.9	460.9	430.0	504.8	380.9	299.5	300.8	299.5	282.8
82.5°	810.8	752.7	457.1	401.5	368.0	397.7	344.7	287.9	285.3	287.9	269.9
85°	719.2	689.5	442.9	414.5	379.6	383.5	330.5	272.4	273.7	278.9	263.4
87.5°	690.8	657.2	444.2	400.3	370.6	355.1	299.5	251.8	259.5	264.7	251.8
90°	622.3	588.8	408.0	361.5	330.5	308.6	264.7	238.9	249.2	254.4	242.7
92.5°	539.7	504.8	339.6	318.9	311.2	311.2	277.6	254.4	260.8	263.4	253.1
95°	464.8	431.2	302.1	280.2	273.7	275.0	247.9	228.5	232.4	231.1	223.4
97.5°	375.7	355.1	263.4	249.2	242.7	240.2	222.1	207.9	215.6	220.8	214.3
100°	331.8	321.5	254.4	244.0	235.0	233.7	218.2	209.2	215.6	223.4	218.2
102.5°	309.9	302.1	242.7	228.5	222.1	219.5	209.2	198.8	205.3	213.0	209.2
105°	291.8	280.2	232.4	219.5	210.5	209.2	198.8	185.9	189.8	200.1	197.5
107.5°	276.3	268.6	231.1	216.9	205.3	205.3	193.7	183.3	184.6	188.5	188.5
110°	289.2	280.2	240.2	229.8	214.3	209.2	206.6	198.8	192.4	189.8	189.8



REPORT NUMBER: P856139
 CATALOG NUMBER: FFX-CLB-80-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	357.6	340.9	300.8	289.2	263.4	245.3	228.5	213.0	202.7	198.8	196.3
115°	422.2	402.8	355.1	325.4	290.5	263.4	240.2	223.4	207.9	202.7	207.9
117.5°	435.1	383.5	309.9	285.3	264.7	247.9	235.0	222.1	210.5	214.3	210.5
120°	431.2	368.0	312.5	347.3	312.5	273.7	242.7	242.7	238.9	219.5	223.4
122.5°	663.7	619.8	552.6	532.0	433.8	396.4	338.3	289.2	241.4	214.3	201.4
125°	909.0	866.4	763.1	684.3	586.2	482.9	370.6	285.3	223.4	197.5	201.4
127.5°	914.1	875.4	777.3	644.3	515.2	413.2	308.6	253.1	218.2	201.4	198.8
130°	712.7	675.3	591.3	489.3	408.0	340.9	277.6	228.5	197.5	184.6	180.8
132.5°	617.2	583.6	506.1	413.2	353.8	300.8	247.9	198.8	178.2	169.1	170.4
135°	519.0	479.0	405.4	355.1	317.6	269.9	222.1	182.1	171.7	169.1	167.9
137.5°	440.3	411.9	360.2	321.5	285.3	242.7	195.0	170.4	166.6	169.1	166.6
140°	374.4	351.2	322.8	289.2	245.3	205.3	174.3	162.7	169.1	170.4	169.1
142.5°	322.8	299.5	269.9	224.7	204.0	185.9	178.2	169.1	169.1	167.9	166.6
145°	269.9	238.9	224.7	231.1	218.2	200.1	185.9	167.9	161.4	161.4	162.7
147.5°	309.9	277.6	259.5	245.3	220.8	195.0	173.0	156.2	153.6	158.8	157.5
150°	267.3	237.6	224.7	205.3	189.8	170.4	156.2	149.8	151.1	157.5	157.5
152.5°	213.0	192.4	184.6	179.5	171.7	160.1	152.4	149.8	152.4	154.9	154.9
155°	200.1	188.5	179.5	175.6	166.6	157.5	151.1	149.8	152.4	154.9	157.5
157.5°	187.2	183.3	171.7	167.9	160.1	156.2	152.4	152.4	153.6	156.2	158.8
160°	178.2	176.9	166.6	165.3	160.1	157.5	157.5	158.8	160.1	160.1	160.1
162.5°	173.0	173.0	169.1	166.6	165.3	164.0	167.9	169.1	167.9	167.9	167.9
165°	174.3	175.6	171.7	169.1	167.9	170.4	176.9	176.9	174.3	173.0	171.7
167.5°	175.6	176.9	174.3	173.0	173.0	175.6	178.2	176.9	175.6	174.3	173.0
170°	174.3	175.6	175.6	176.9	176.9	176.9	179.5	179.5	176.9	175.6	175.6
172.5°	176.9	178.2	179.5	180.8	182.1	180.8	182.1	182.1	182.1	182.1	183.3
175°	184.6	184.6	185.9	185.9	184.6	185.9	185.9	185.9	187.2	189.8	189.8
177.5°	188.5	188.5	187.2	187.2	185.9	187.2	187.2	187.2	187.2	188.5	187.2
180°	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1	191.1

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.

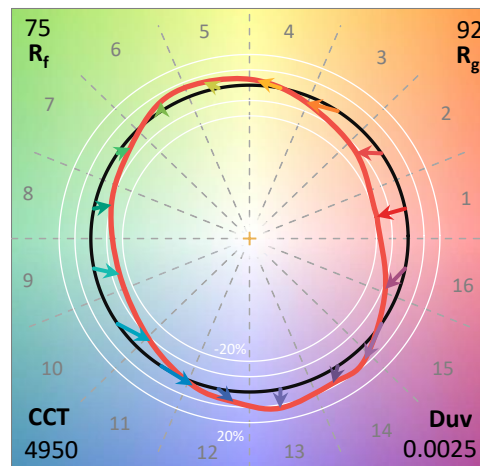
Test Information

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

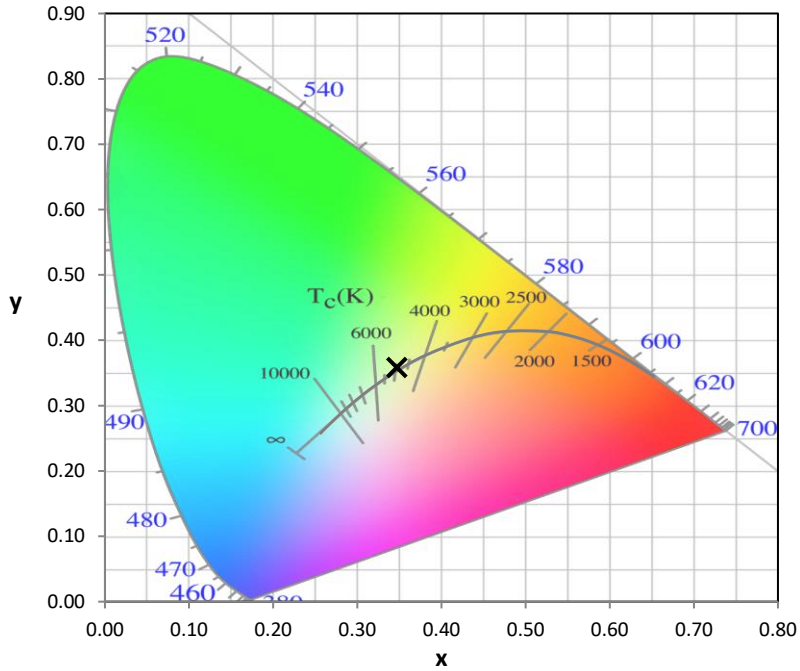
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

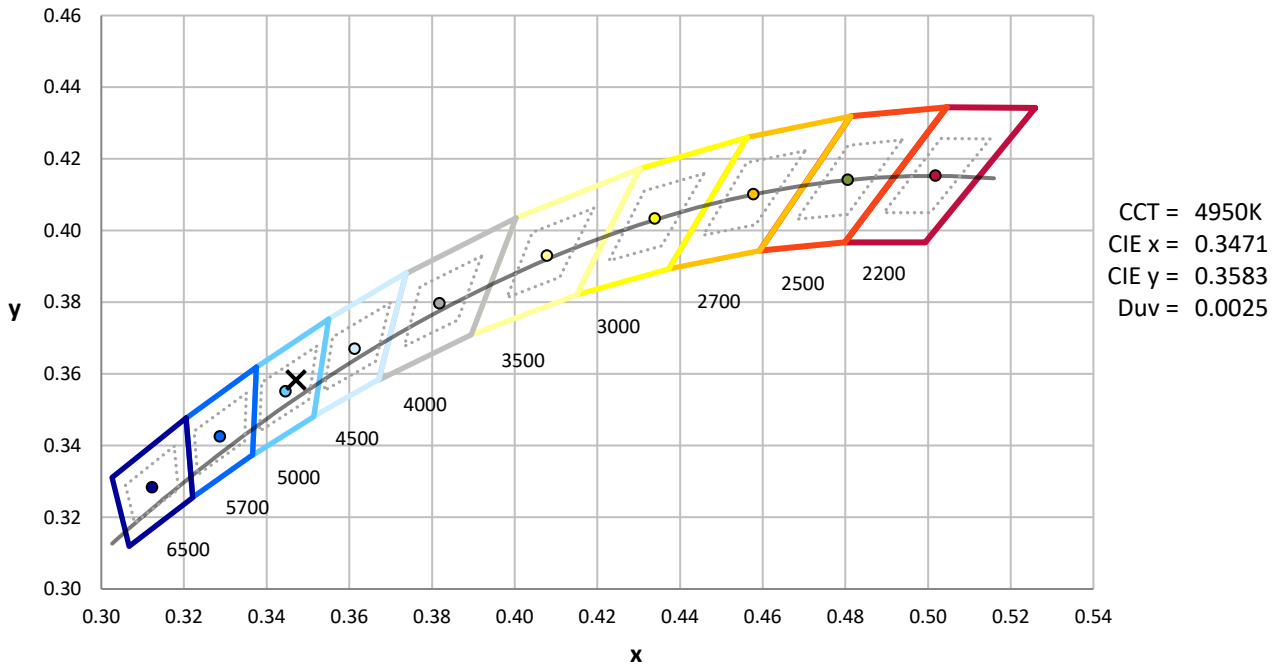
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



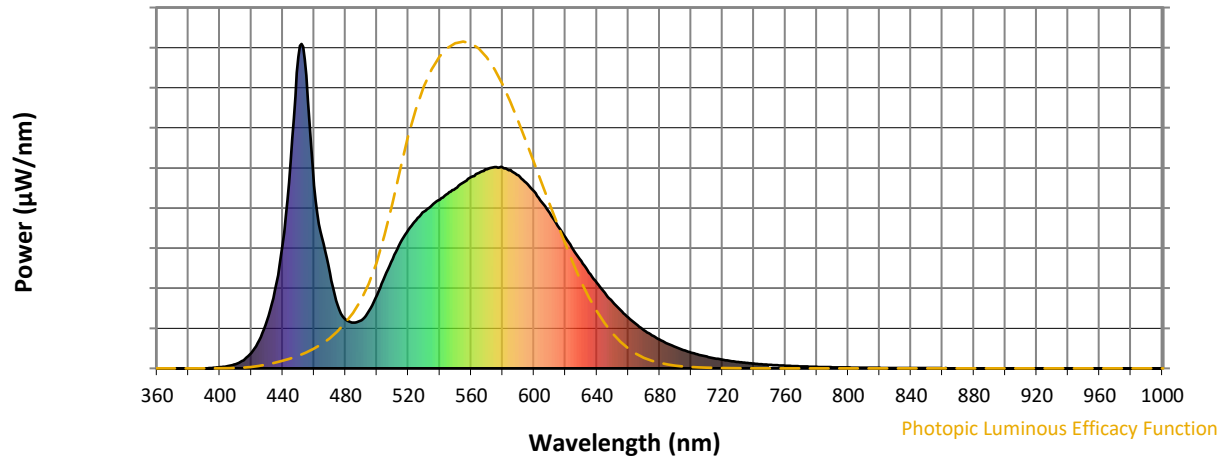
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

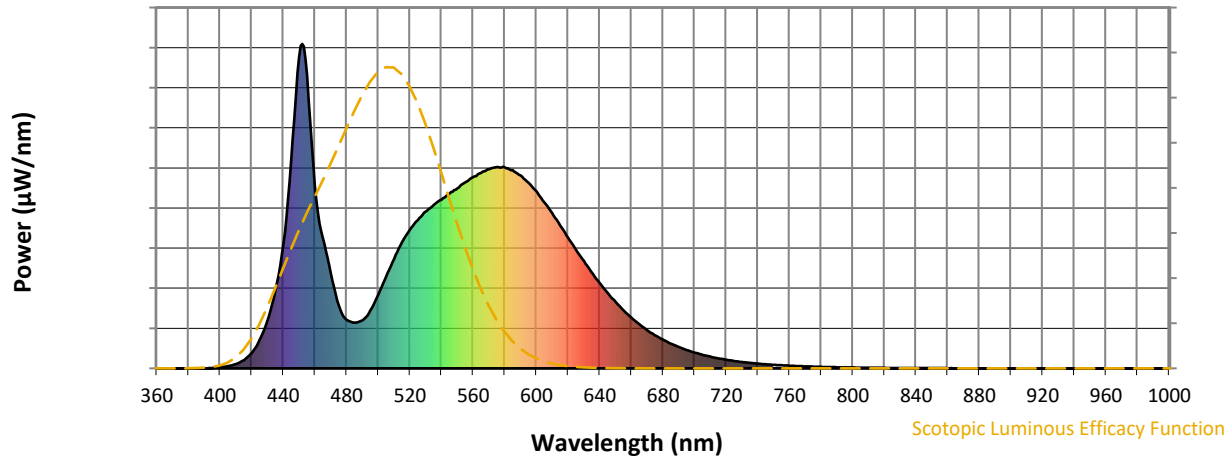


Photopic Lumens: NR

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



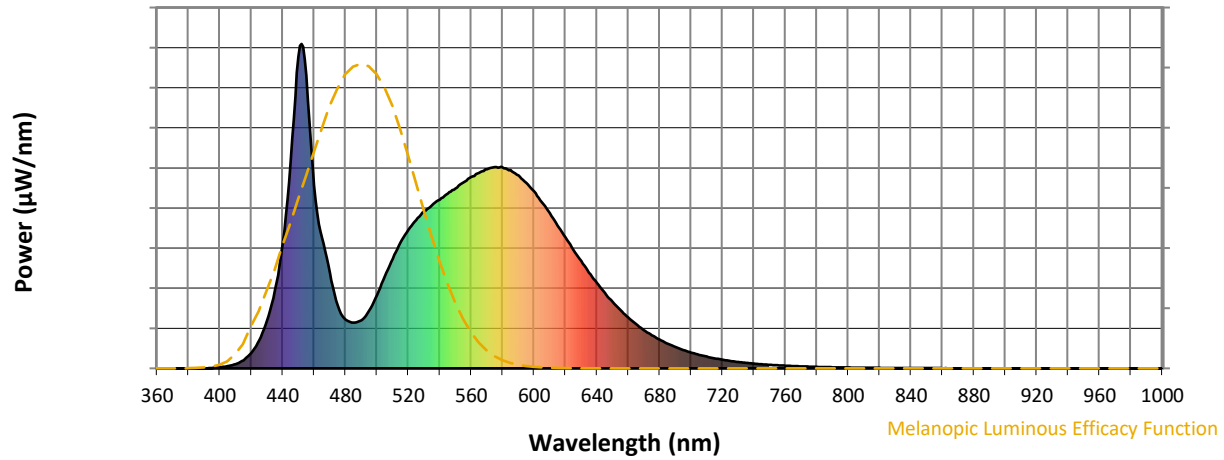
Scotopic Lumens: NR

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

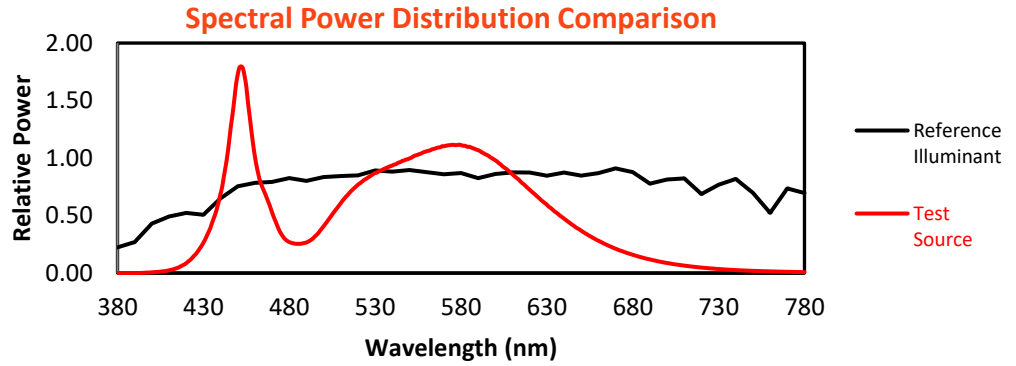
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	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

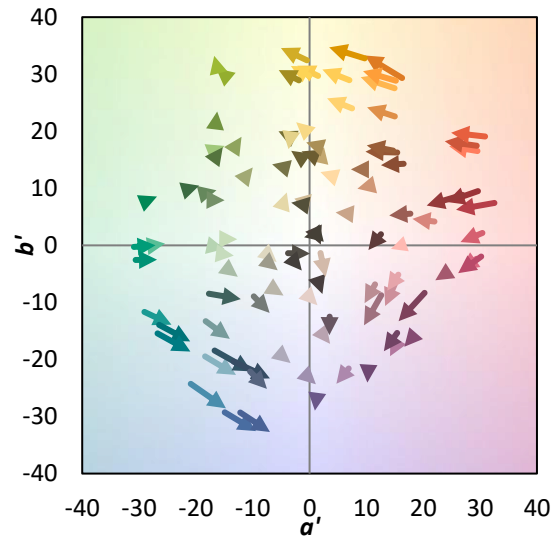
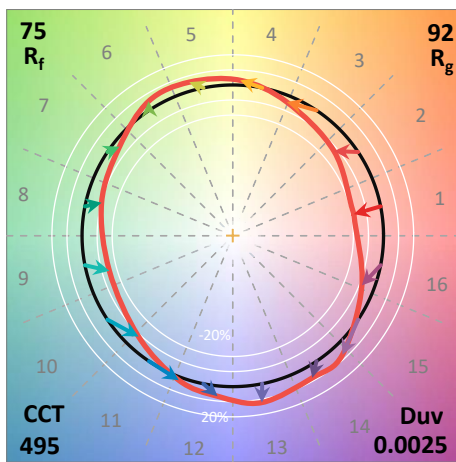
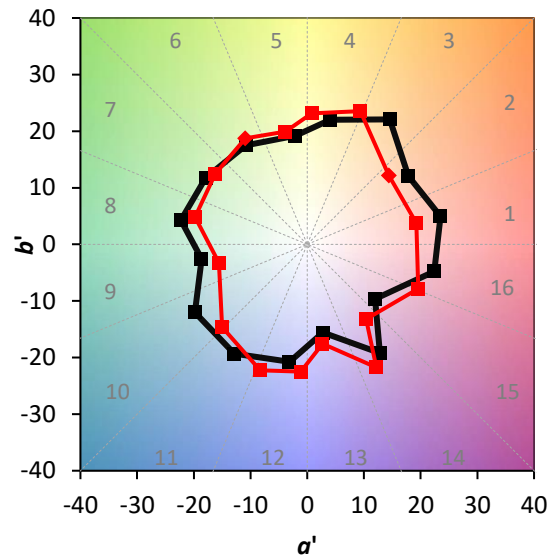
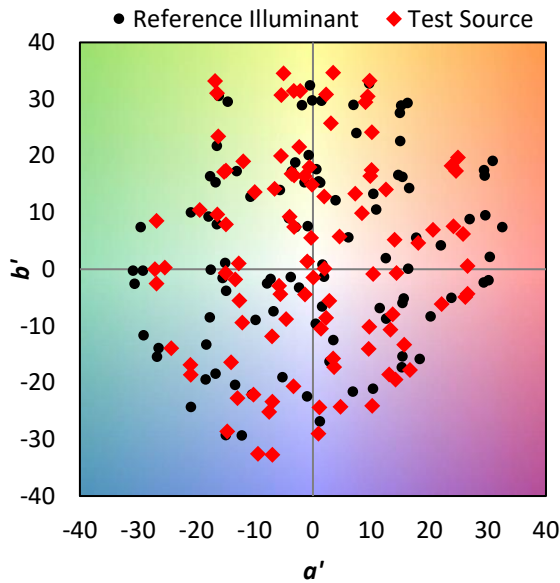
TM-30-18

Summary

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



Color Vector Graphics

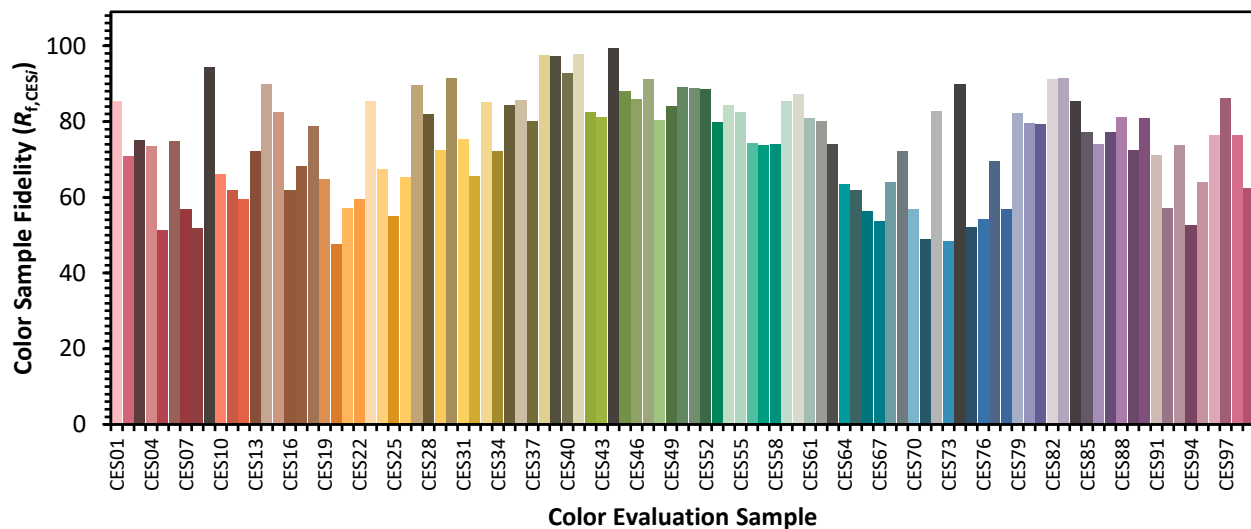


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

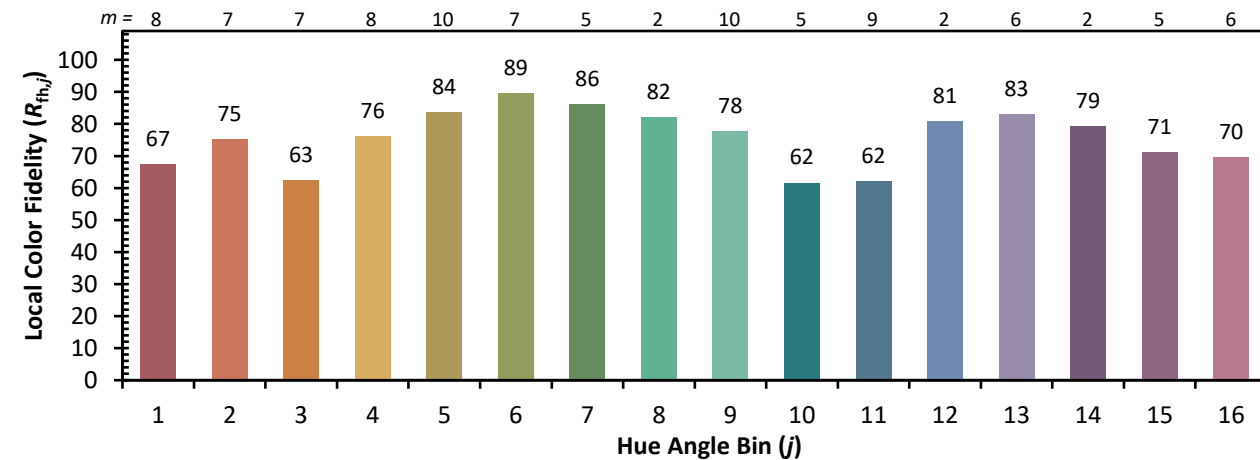
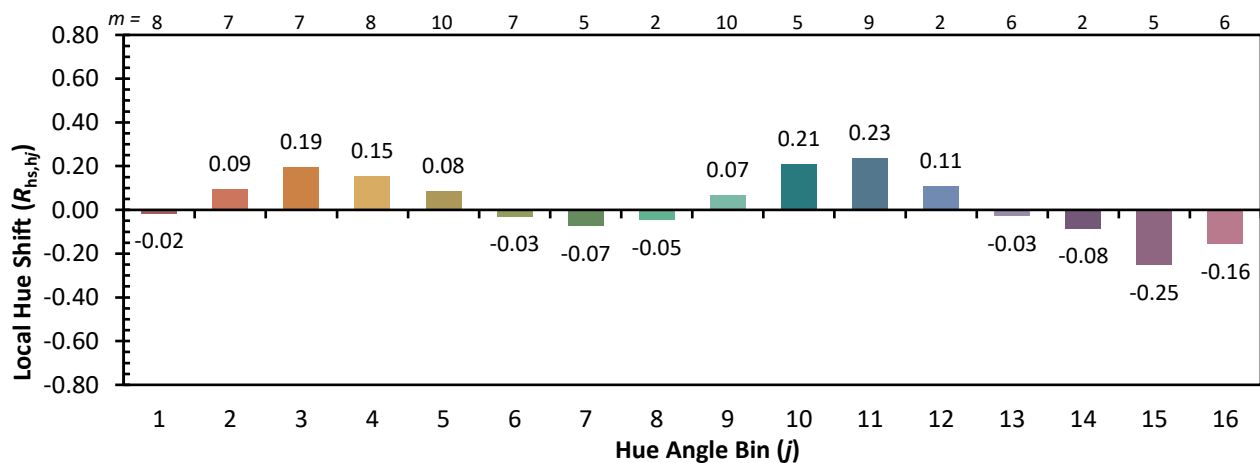
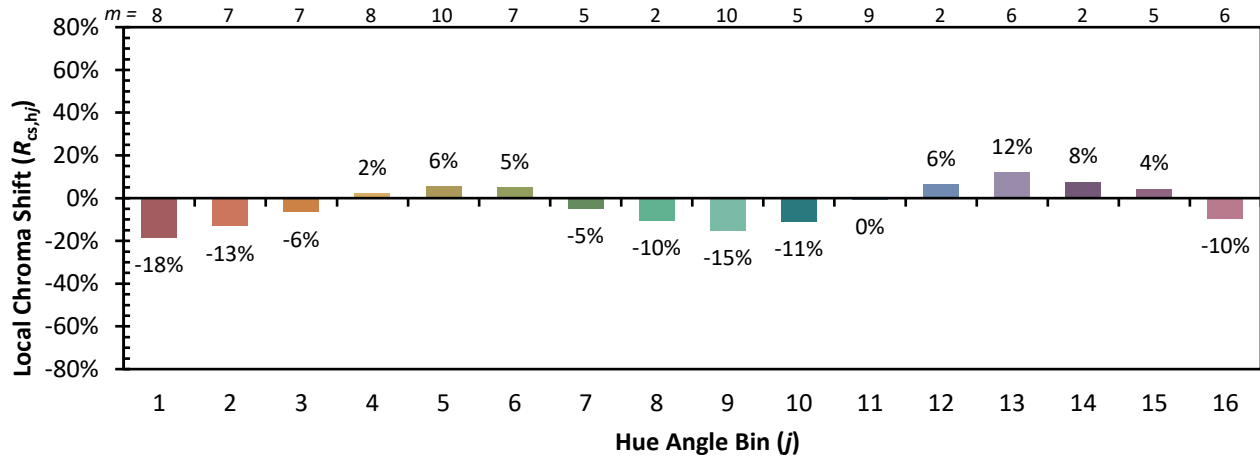
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 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

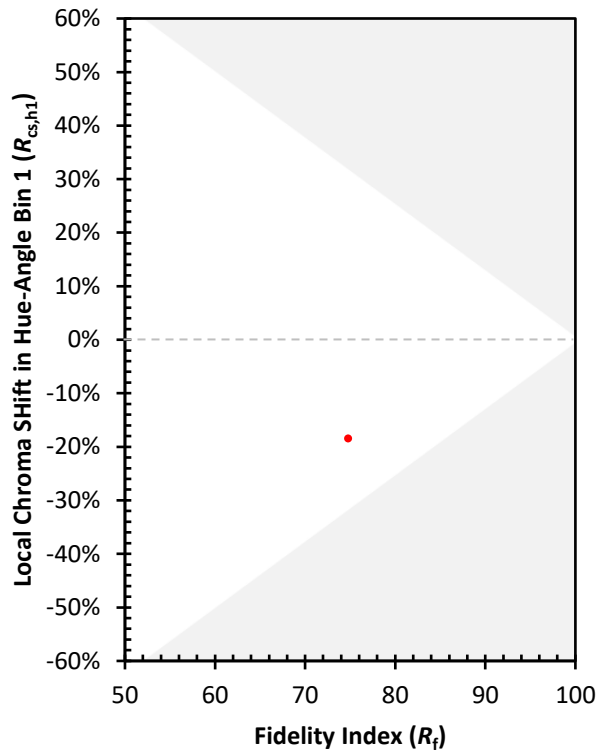
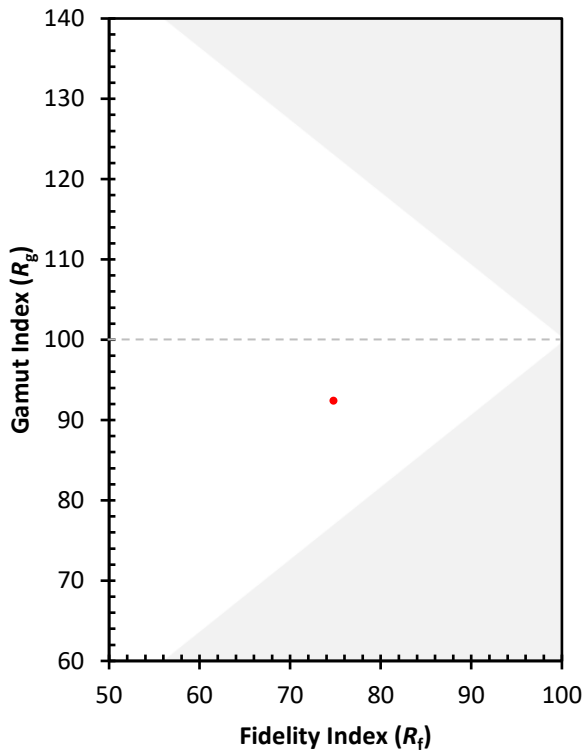
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)