

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: P856131

Luminaire Tested: **FFX-CLB-70-740-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856131
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-740-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

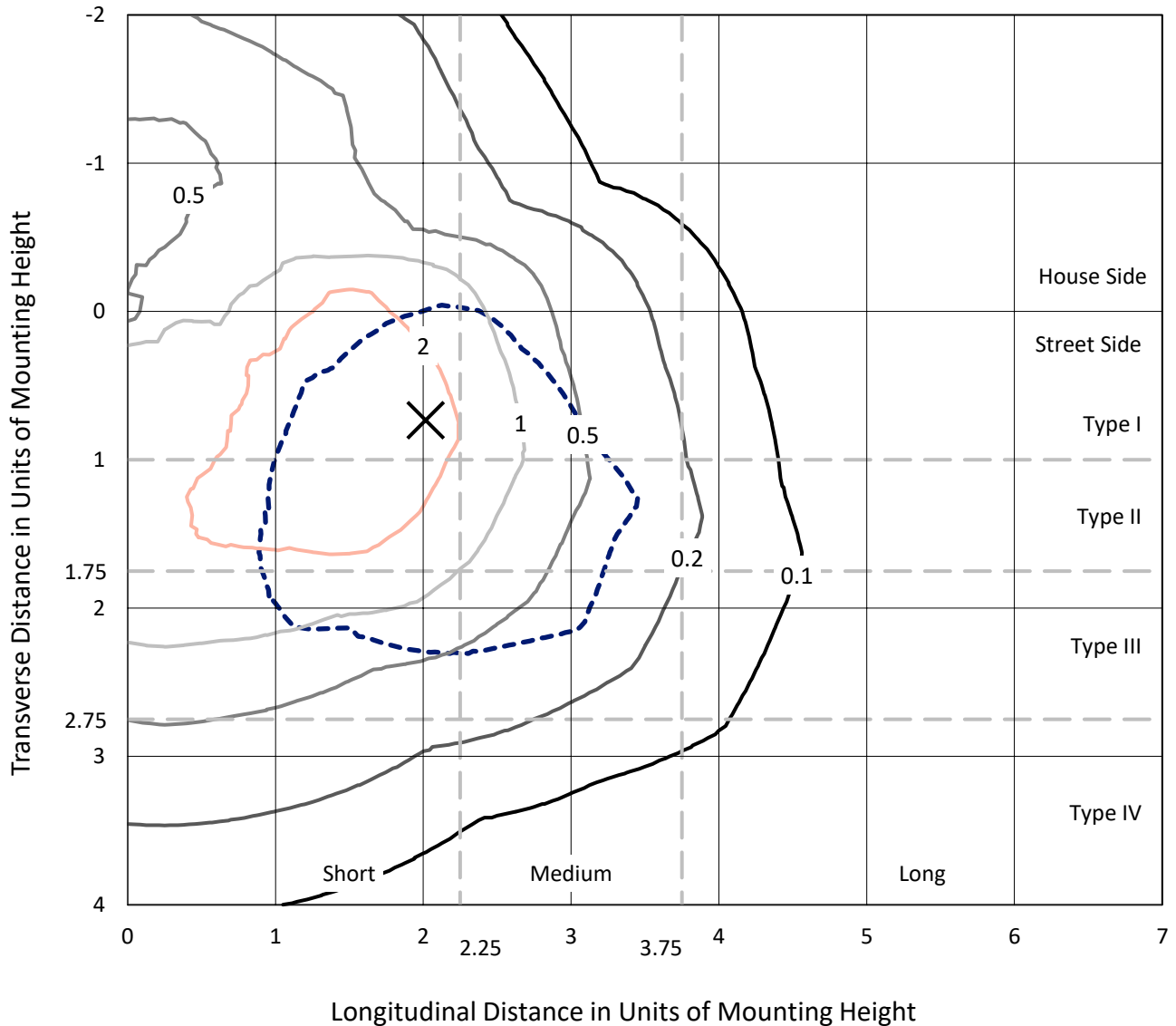
Lumens per Lamp: N/A
Luminaire Lumens: 11190.5 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G3

Input Watts (W): 70.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

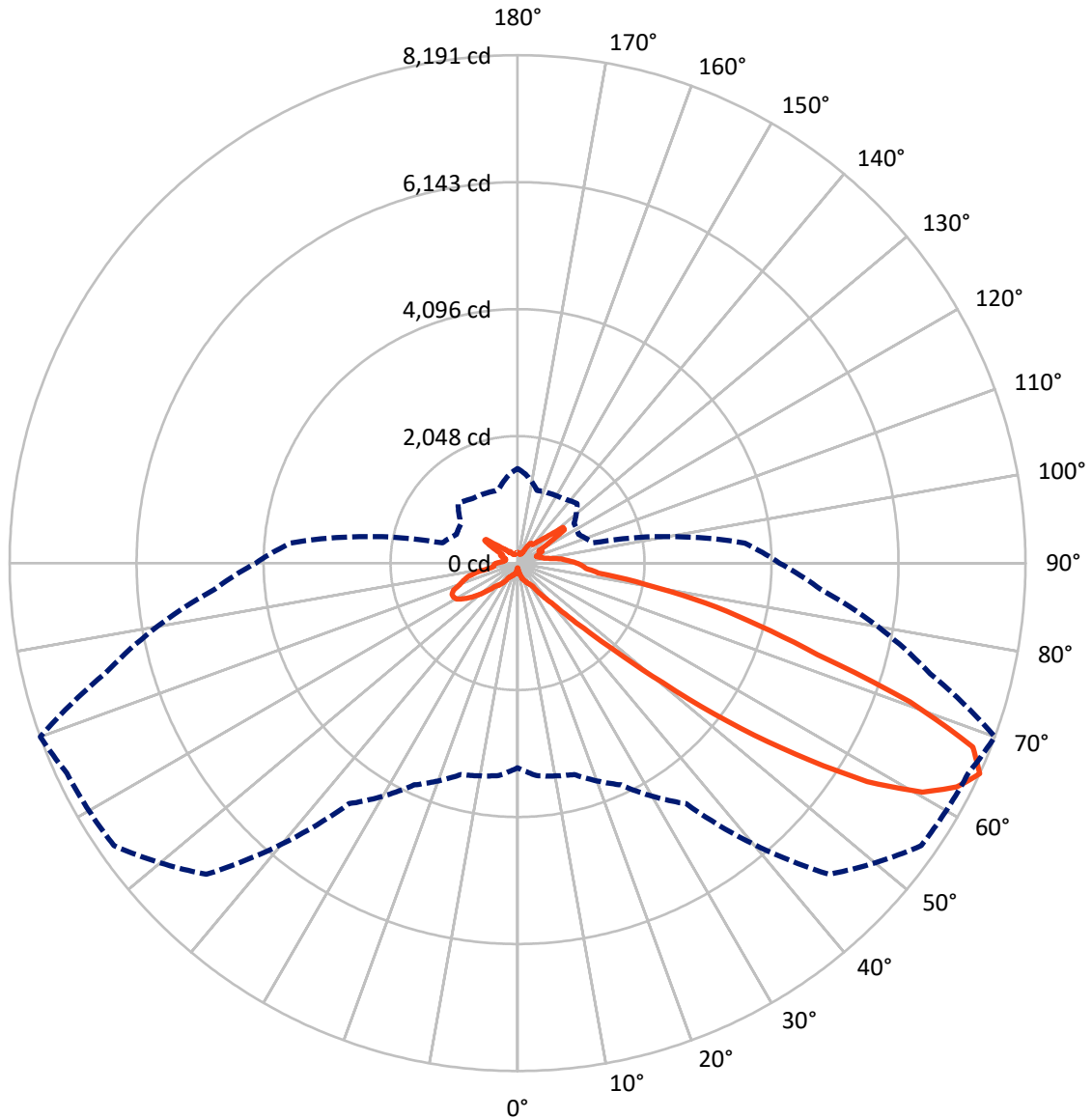
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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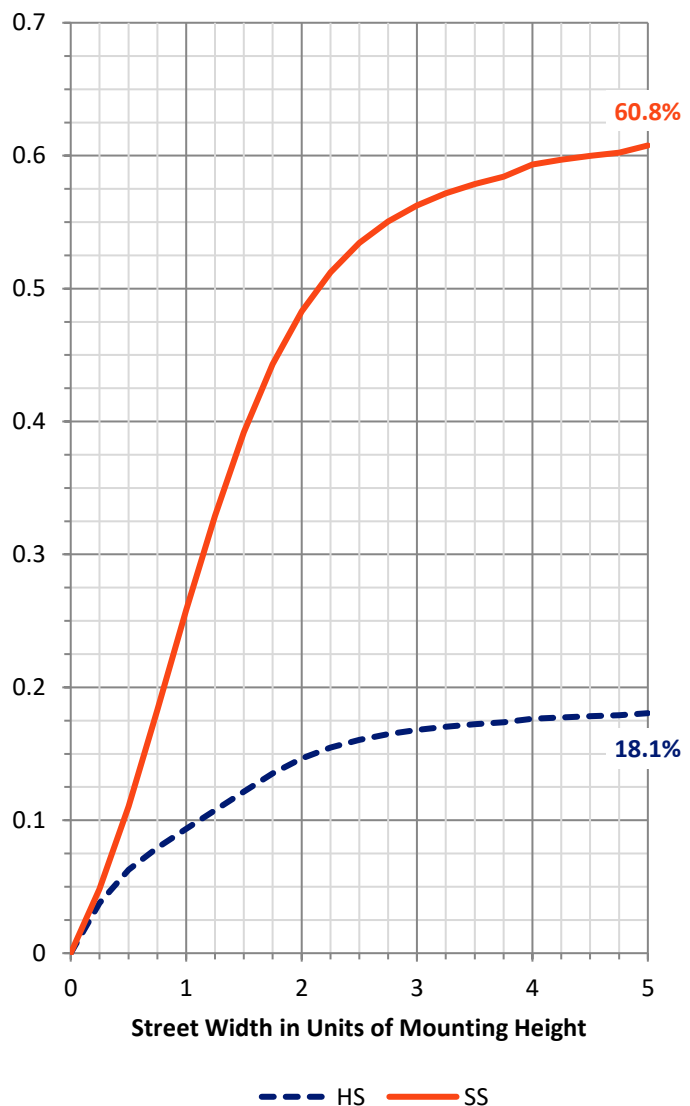
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2107.9	752.0	2859.9
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	7029.2	1301.3	8330.5
	% Fixture	62.8	11.6	74.4
Total	Lumens	9137.2	2053.3	11190.5
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.1
10°-20°	58.6	0.5
20°-30°	124.4	1.1
30°-40°	253.4	2.3
40°-50°	644.4	5.8
50°-60°	2071.0	18.5
60°-70°	3379.8	30.2
70°-80°	1924.1	17.2
80°-90°	669.5	6.0
90°-100°	416.6	3.7
100°-110°	265.3	2.4
110°-120°	291.9	2.6
120°-130°	493.7	4.4
130°-140°	291.0	2.6
140°-150°	156.6	1.4
150°-160°	79.2	0.7
160°-170°	43.3	0.4
170°-180°	15.6	0.1
0°-90°	9137.2	81.7
0°-180°	11190.5	100.0



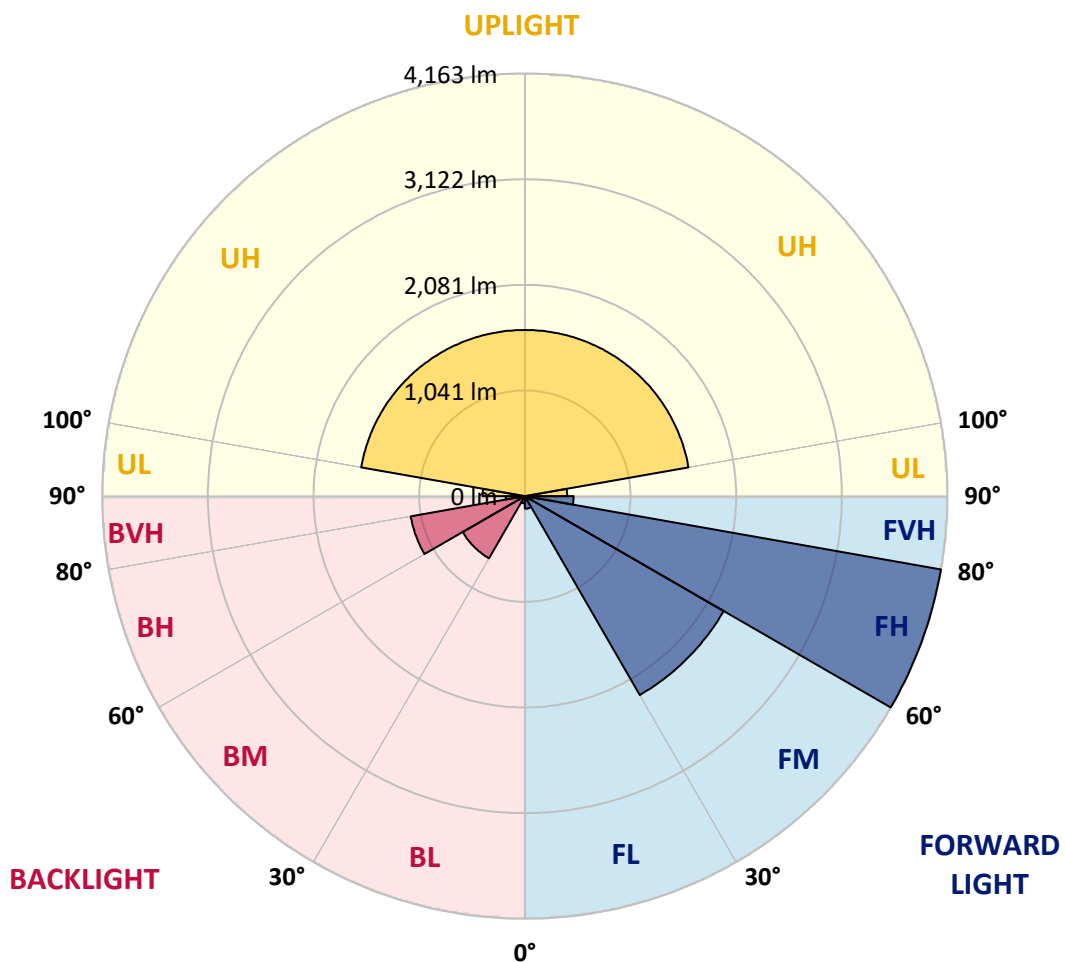
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	124.2	1.1			
FM (30°-60°)	2262.3	20.2			
FH (60°-80°)	4162.7	37.2			G2/5000
FVH (80°-90°)	480.0	4.3			G3/500
BL (0°-30°)	70.8	0.6	B0/110		
BM (30°-60°)	706.5	6.3	B1/1000		
BH (60°-80°)	1141.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	189.5	1.7			G2/225
UL (90°-100°)	416.6	3.7		U3/500	
UH (100°-180°)	1636.7	14.6		U5	

BUG Rating: B3-U5-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
2.5°	88.8	88.8	91.1	91.1	91.1	88.8	87.6	85.3	85.3	85.3	84.2
5°	115.3	114.2	115.3	118.8	119.9	116.5	114.2	110.7	110.7	109.6	109.6
7.5°	155.7	154.5	152.2	148.8	149.9	153.4	158.0	148.8	146.5	140.7	138.4
10°	194.9	192.6	194.9	189.1	183.4	175.3	179.9	177.6	173.0	167.2	162.6
12.5°	237.6	238.7	243.3	238.7	229.5	216.8	214.5	208.7	204.1	203.0	196.0
15°	281.4	282.5	287.1	286.0	276.8	259.5	252.5	246.8	244.5	237.6	222.6
17.5°	304.4	305.6	306.7	307.9	302.1	288.3	277.9	267.5	264.1	261.8	243.3
20°	316.0	313.7	316.0	320.6	325.2	313.7	303.3	297.5	294.1	286.0	261.8
22.5°	334.4	332.1	331.0	334.4	348.3	340.2	329.8	324.0	320.6	310.2	273.3
25°	354.0	351.7	355.2	352.9	370.2	366.7	356.3	350.6	346.0	333.3	290.6
27.5°	375.9	373.6	377.1	374.8	388.6	390.9	384.0	379.4	372.5	354.0	303.3
30°	394.4	392.1	395.5	394.4	408.2	416.3	412.8	411.7	401.3	379.4	325.2
32.5°	409.4	408.2	416.3	419.8	423.2	441.7	439.4	449.7	438.2	411.7	357.5
35°	444.0	447.4	469.3	492.4	495.9	532.8	537.4	575.4	563.9	529.3	463.6
37.5°	686.1	673.5	651.5	629.6	621.6	693.1	703.4	741.5	712.7	648.1	542.0
40°	731.1	710.4	685.0	667.7	670.0	798.0	776.1	920.2	838.4	741.5	661.9
42.5°	694.2	687.3	776.1	817.6	787.6	974.4	937.5	1212.0	1118.6	881.0	799.1
45°	870.6	856.8	887.9	929.5	938.7	1282.3	1257.0	1544.1	1506.0	1101.3	1025.2
47.5°	996.3	983.7	1025.2	1165.9	1286.9	1658.3	1796.6	2210.6	2076.9	1564.9	1388.4
50°	1373.4	1371.1	1499.1	1666.3	1878.5	2412.4	2780.3	3245.0	3029.4	2215.2	1903.9
52.5°	1745.9	1750.5	1907.3	2203.7	2424.0	3367.3	3889.6	4214.8	4243.7	2888.7	2467.8
55°	2027.3	2056.1	2245.2	2742.2	3075.5	4217.2	4895.2	5147.8	5436.1	3903.5	3054.8
57.5°	2576.2	2620.0	2799.9	3286.5	3752.4	5275.8	6191.4	6219.1	6649.2	5029.0	3684.4
60°	3055.9	3158.5	3222.0	3663.6	4299.0	6287.1	7154.3	7098.9	7502.5	5961.9	4323.2
62.5°	3204.7	3322.3	3382.3	3852.7	4731.5	6854.5	7604.0	7673.2	7951.1	6616.9	4714.2
65°	3301.5	3439.9	3529.9	3946.2	4736.1	7096.6	7945.4	8019.2	8191.0	6891.4	4909.1
67.5°	3251.9	3428.4	3543.7	3913.9	4487.0	6909.8	7877.3	7735.5	7917.7	6661.9	4691.1
70°	2839.1	3023.6	3140.1	3415.7	3751.3	5809.7	6791.0	6553.5	6713.8	5560.6	3857.4
72.5°	2313.3	2404.4	2475.9	2626.9	2827.6	4285.2	5160.4	4963.3	5059.0	4183.7	2891.0
75°	1900.4	1928.1	2016.9	2103.4	2136.8	3134.3	4088.0	3908.1	4020.0	3185.1	2300.6
77.5°	1380.3	1396.5	1523.3	1537.2	1529.1	2150.7	3222.0	3064.0	3099.7	2367.5	1717.1
80°	801.5	832.6	998.6	990.6	976.7	1325.0	2268.3	2204.9	2094.2	1607.5	1188.9
82.5°	565.1	596.2	672.3	689.6	680.4	951.4	1472.6	1431.1	1311.2	1118.6	822.2
85°	595.0	598.5	602.0	610.0	595.0	848.7	1127.8	1107.0	1108.2	924.8	678.1
87.5°	587.0	600.8	606.6	610.0	595.0	806.1	1048.2	1021.7	1034.4	878.7	658.5
90°	515.5	540.8	543.1	548.9	540.8	719.6	941.0	915.6	931.8	792.2	599.6
92.5°	420.9	434.7	450.9	472.8	463.6	615.8	800.3	781.9	801.5	686.1	527.0
95°	399.0	414.0	424.4	439.4	425.5	561.6	723.0	686.1	702.3	600.8	454.3
97.5°	329.8	342.5	351.7	357.5	347.1	442.8	554.7	529.3	528.2	464.7	363.2
100°	281.4	289.4	297.5	303.3	294.1	366.7	439.4	430.1	432.4	384.0	312.5
102.5°	267.5	272.1	284.8	286.0	275.6	334.4	395.5	392.1	396.7	355.2	292.9
105°	261.8	265.2	275.6	272.1	262.9	312.5	364.4	366.7	366.7	331.0	274.5
107.5°	244.5	250.2	261.8	256.0	251.4	288.3	335.6	327.5	329.8	307.9	260.6
110°	242.2	246.8	258.3	253.7	250.2	281.4	322.9	320.6	324.0	304.4	267.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	301.0	296.4	305.6	296.4	302.1	328.7	372.5	367.9	378.2	371.3	334.4
115°	371.3	373.6	382.9	364.4	370.2	396.7	420.9	429.0	438.2	427.8	389.8
117.5°	343.6	363.2	351.7	349.4	344.8	365.6	362.1	382.9	392.1	384.0	369.0
120°	367.9	392.1	358.6	341.3	334.4	386.3	411.7	410.5	403.6	387.5	356.3
122.5°	550.1	553.5	555.8	607.7	589.3	640.0	655.0	635.4	635.4	656.2	592.7
125°	858.0	861.4	859.1	882.2	869.5	917.9	937.5	936.4	924.8	914.5	852.2
127.5°	867.2	867.2	859.1	846.4	858.0	905.2	906.4	950.2	935.2	907.5	849.9
130°	605.4	610.0	638.9	648.1	664.2	674.6	663.1	701.1	708.0	703.4	664.2
132.5°	501.6	509.7	540.8	552.4	562.7	563.9	559.3	589.3	596.2	596.2	578.9
135°	433.6	442.8	446.3	440.5	455.5	467.0	476.3	500.5	498.2	493.6	478.6
137.5°	378.2	381.7	371.3	358.6	366.7	400.2	418.6	444.0	442.8	434.7	409.4
140°	319.4	320.6	314.8	309.1	317.1	346.0	363.2	390.9	387.5	381.7	351.7
142.5°	242.2	245.6	260.6	272.1	291.8	351.7	342.5	366.7	384.0	397.8	328.7
145°	254.9	250.2	247.9	260.6	286.0	372.5	346.0	377.1	385.2	394.4	314.8
147.5°	294.1	296.4	292.9	284.8	319.4	347.1	332.1	359.8	364.4	362.1	329.8
150°	230.6	234.1	235.2	231.8	274.5	273.3	258.3	279.1	281.4	281.4	259.5
152.5°	188.0	189.1	186.8	184.5	212.2	207.6	200.7	207.6	206.4	205.3	200.7
155°	178.7	178.7	176.4	177.6	196.0	191.4	186.8	191.4	189.1	185.7	181.0
157.5°	164.9	166.1	166.1	169.5	181.0	173.0	168.4	170.7	168.4	166.1	166.1
160°	155.7	155.7	156.8	161.4	168.4	160.3	156.8	158.0	156.8	154.5	155.7
162.5°	152.2	152.2	153.4	155.7	156.8	152.2	148.8	148.8	148.8	148.8	152.2
165°	149.9	149.9	149.9	151.1	151.1	147.6	146.5	147.6	148.8	149.9	154.5
167.5°	154.5	154.5	154.5	154.5	153.4	151.1	149.9	151.1	152.2	153.4	156.8
170°	161.4	160.3	160.3	159.1	158.0	155.7	154.5	153.4	153.4	154.5	155.7
172.5°	166.1	166.1	164.9	164.9	163.8	161.4	159.1	158.0	158.0	158.0	158.0
175°	171.8	171.8	171.8	171.8	170.7	168.4	167.2	164.9	164.9	164.9	164.9
177.5°	178.7	178.7	178.7	178.7	176.4	174.1	171.8	169.5	169.5	169.5	168.4
180°	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
2.5°	83.0	81.9	78.4	77.3	76.1	73.8	71.5	70.3	69.2	69.2	70.3
5°	110.7	109.6	109.6	106.1	102.6	96.9	94.6	94.6	95.7	96.9	99.2
7.5°	139.5	141.8	144.1	138.4	128.0	114.2	106.1	108.4	114.2	118.8	118.8
10°	161.4	161.4	169.5	162.6	145.3	128.0	116.5	114.2	115.3	116.5	117.6
12.5°	192.6	192.6	188.0	169.5	152.2	134.9	125.7	123.4	123.4	118.8	117.6
15°	215.6	208.7	192.6	175.3	160.3	143.0	132.6	129.2	125.7	122.2	121.1
17.5°	229.5	216.8	194.9	178.7	163.8	149.9	139.5	132.6	129.2	130.3	130.3
20°	245.6	231.8	212.2	194.9	176.4	158.0	145.3	134.9	131.5	132.6	131.5
22.5°	258.3	244.5	224.9	205.3	185.7	166.1	151.1	138.4	133.8	134.9	134.9
25°	273.3	261.8	241.0	217.9	193.7	175.3	160.3	145.3	138.4	137.2	137.2
27.5°	288.3	280.2	258.3	230.6	205.3	183.4	168.4	151.1	143.0	139.5	139.5
30°	307.9	298.7	276.8	243.3	215.6	194.9	178.7	160.3	148.8	143.0	141.8
32.5°	339.0	328.7	302.1	266.4	227.2	206.4	189.1	168.4	153.4	146.5	145.3
35°	440.5	424.4	382.9	341.3	277.9	230.6	201.8	175.3	158.0	148.8	147.6
37.5°	503.9	464.7	409.4	381.7	312.5	282.5	243.3	200.7	164.9	153.4	151.1
40°	606.6	552.4	483.2	429.0	304.4	309.1	284.8	250.2	196.0	161.4	158.0
42.5°	693.1	625.0	520.1	449.7	305.6	322.9	304.4	275.6	235.2	191.4	184.5
45°	854.5	766.9	604.3	483.2	313.7	343.6	320.6	290.6	254.9	224.9	221.4
47.5°	1154.3	1035.5	755.3	538.5	366.7	399.0	357.5	318.3	286.0	251.4	245.6
50°	1579.8	1438.0	929.5	582.4	457.8	525.8	450.9	385.2	348.3	322.9	319.4
52.5°	2069.9	1921.2	1057.5	663.1	568.5	682.7	596.2	520.1	471.6	471.6	478.6
55°	2639.6	2490.9	1160.1	774.9	704.6	855.7	762.2	700.0	676.9	774.9	801.5
57.5°	3204.7	3015.5	1229.3	889.1	863.7	1058.6	946.8	893.7	936.4	1227.0	1316.9
60°	3720.1	3407.6	1283.5	997.5	999.8	1220.1	1137.0	1133.6	1199.3	1570.6	1684.8
62.5°	4017.7	3592.1	1280.0	1059.8	1079.4	1320.4	1251.2	1269.6	1306.5	1628.3	1714.8
65°	4221.8	3679.8	1253.5	1087.4	1112.8	1356.1	1269.6	1238.5	1214.3	1441.5	1524.5
67.5°	4081.1	3474.5	1193.5	1047.1	1092.1	1304.2	1190.1	1101.3	1054.0	1169.3	1225.8
70°	3418.0	2897.9	1056.3	942.1	983.7	1099.0	989.4	901.8	852.2	914.5	941.0
72.5°	2588.9	2204.9	952.5	881.0	862.6	908.7	804.9	706.9	676.9	717.3	723.0
75°	2061.9	1725.1	876.4	796.8	724.2	769.2	642.3	523.5	506.2	506.2	497.0
77.5°	1546.4	1278.9	747.3	620.4	533.9	607.7	478.6	364.4	341.3	336.7	324.0
80°	1036.7	870.6	502.8	411.7	384.0	450.9	340.2	267.5	268.7	267.5	252.5
82.5°	724.2	672.3	408.2	358.6	328.7	355.2	307.9	257.2	254.9	257.2	241.0
85°	642.3	615.8	395.5	370.2	339.0	342.5	295.2	243.3	244.5	249.1	235.2
87.5°	616.9	587.0	396.7	357.5	331.0	317.1	267.5	224.9	231.8	236.4	224.9
90°	555.8	525.8	364.4	322.9	295.2	275.6	236.4	213.3	222.6	227.2	216.8
92.5°	482.0	450.9	303.3	284.8	277.9	277.9	247.9	227.2	232.9	235.2	226.0
95°	415.1	385.2	269.8	250.2	244.5	245.6	221.4	204.1	207.6	206.4	199.5
97.5°	335.6	317.1	235.2	222.6	216.8	214.5	198.3	185.7	192.6	197.2	191.4
100°	296.4	287.1	227.2	217.9	209.9	208.7	194.9	186.8	192.6	199.5	194.9
102.5°	276.8	269.8	216.8	204.1	198.3	196.0	186.8	177.6	183.4	190.3	186.8
105°	260.6	250.2	207.6	196.0	188.0	186.8	177.6	166.1	169.5	178.7	176.4
107.5°	246.8	239.9	206.4	193.7	183.4	183.4	173.0	163.8	164.9	168.4	168.4
110°	258.3	250.2	214.5	205.3	191.4	186.8	184.5	177.6	171.8	169.5	169.5



REPORT NUMBER: P856131
 CATALOG NUMBER: FFX-CLB-70-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	319.4	304.4	268.7	258.3	235.2	219.1	204.1	190.3	181.0	177.6	175.3
115°	377.1	359.8	317.1	290.6	259.5	235.2	214.5	199.5	185.7	181.0	185.7
117.5°	388.6	342.5	276.8	254.9	236.4	221.4	209.9	198.3	188.0	191.4	188.0
120°	385.2	328.7	279.1	310.2	279.1	244.5	216.8	216.8	213.3	196.0	199.5
122.5°	592.7	553.5	493.6	475.1	387.5	354.0	302.1	258.3	215.6	191.4	179.9
125°	811.8	773.8	681.5	611.2	523.5	431.3	331.0	254.9	199.5	176.4	179.9
127.5°	816.4	781.9	694.2	575.4	460.1	369.0	275.6	226.0	194.9	179.9	177.6
130°	636.6	603.1	528.2	437.1	364.4	304.4	247.9	204.1	176.4	164.9	161.4
132.5°	551.2	521.2	452.0	369.0	316.0	268.7	221.4	177.6	159.1	151.1	152.2
135°	463.6	427.8	362.1	317.1	283.7	241.0	198.3	162.6	153.4	151.1	149.9
137.5°	393.2	367.9	321.7	287.1	254.9	216.8	174.1	152.2	148.8	151.1	148.8
140°	334.4	313.7	288.3	258.3	219.1	183.4	155.7	145.3	151.1	152.2	151.1
142.5°	288.3	267.5	241.0	200.7	182.2	166.1	159.1	151.1	151.1	149.9	148.8
145°	241.0	213.3	200.7	206.4	194.9	178.7	166.1	149.9	144.1	144.1	145.3
147.5°	276.8	247.9	231.8	219.1	197.2	174.1	154.5	139.5	137.2	141.8	140.7
150°	238.7	212.2	200.7	183.4	169.5	152.2	139.5	133.8	134.9	140.7	140.7
152.5°	190.3	171.8	164.9	160.3	153.4	143.0	136.1	133.8	136.1	138.4	138.4
155°	178.7	168.4	160.3	156.8	148.8	140.7	134.9	133.8	136.1	138.4	140.7
157.5°	167.2	163.8	153.4	149.9	143.0	139.5	136.1	136.1	137.2	139.5	141.8
160°	159.1	158.0	148.8	147.6	143.0	140.7	140.7	141.8	143.0	143.0	143.0
162.5°	154.5	154.5	151.1	148.8	147.6	146.5	149.9	151.1	149.9	149.9	149.9
165°	155.7	156.8	153.4	151.1	149.9	152.2	158.0	158.0	155.7	154.5	153.4
167.5°	156.8	158.0	155.7	154.5	154.5	156.8	159.1	158.0	156.8	155.7	154.5
170°	155.7	156.8	156.8	158.0	158.0	158.0	160.3	160.3	158.0	156.8	156.8
172.5°	158.0	159.1	160.3	161.4	162.6	161.4	162.6	162.6	162.6	162.6	163.8
175°	164.9	164.9	166.1	166.1	164.9	166.1	166.1	166.1	167.2	169.5	169.5
177.5°	168.4	168.4	167.2	167.2	166.1	167.2	167.2	167.2	167.2	168.4	167.2
180°	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7

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.

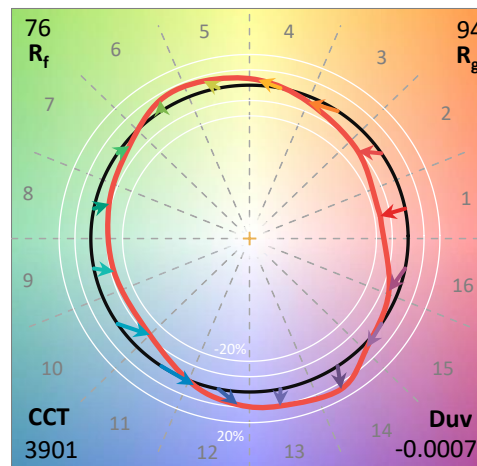
Test Information

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

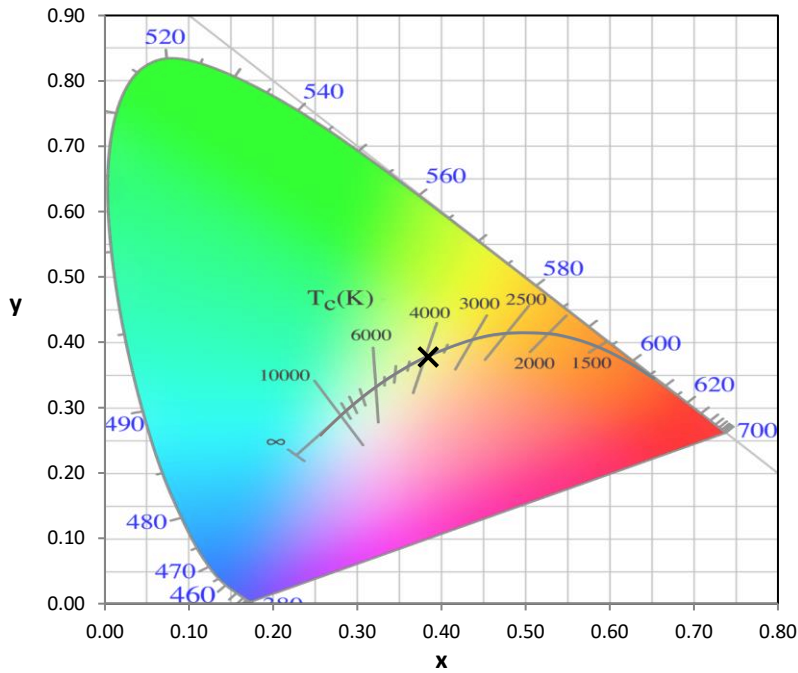
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

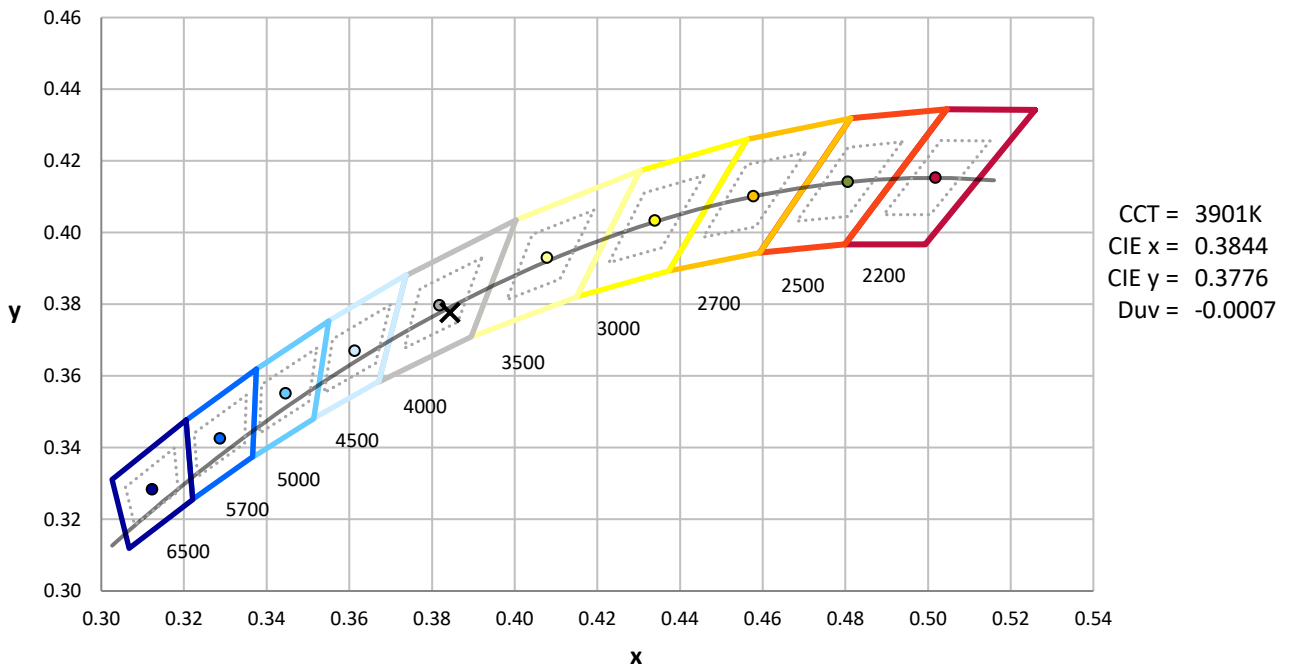
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



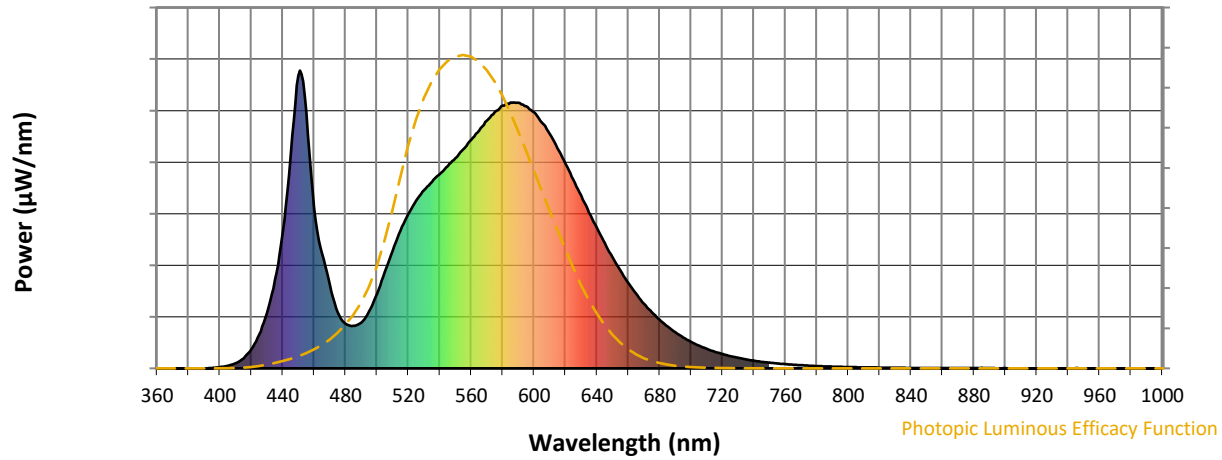
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

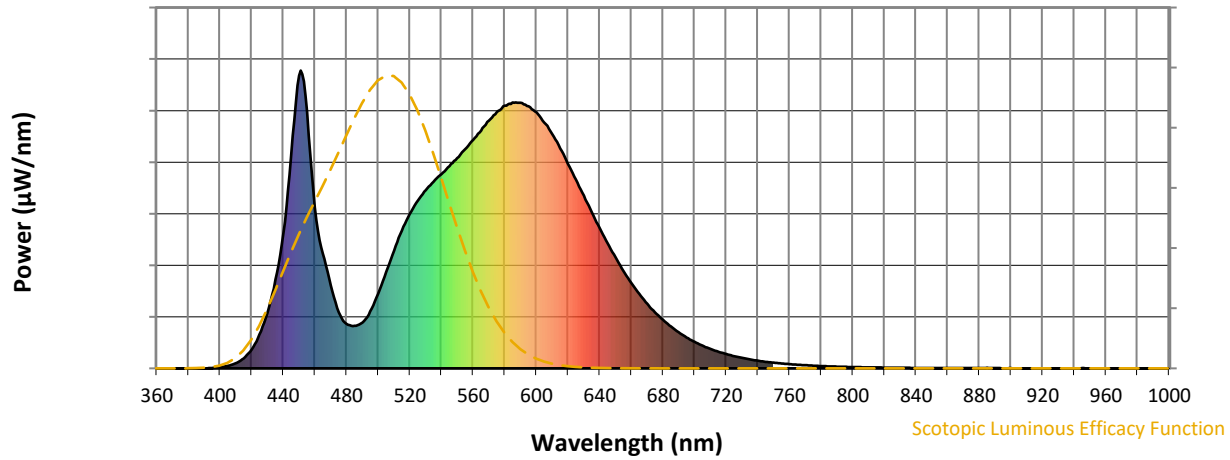


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength



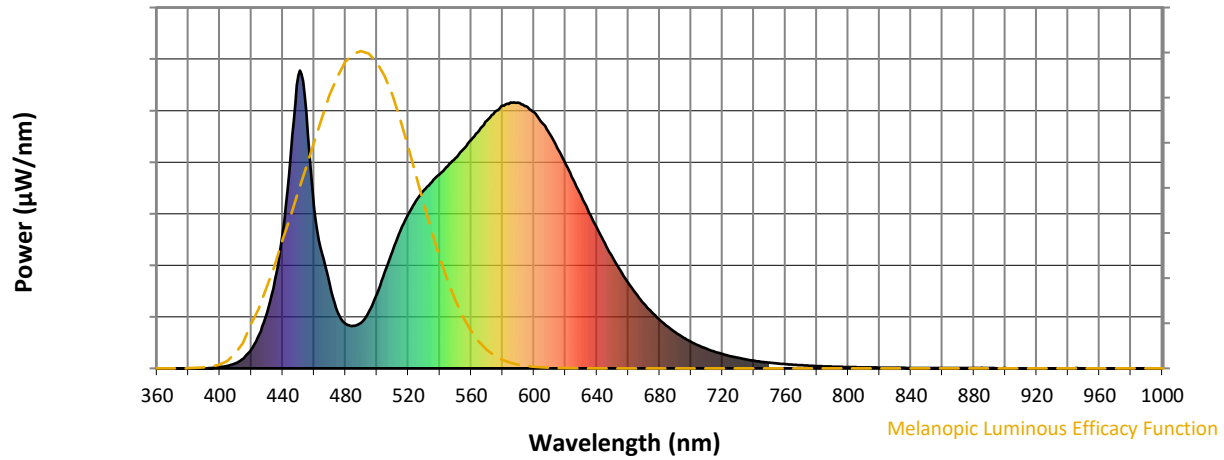
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

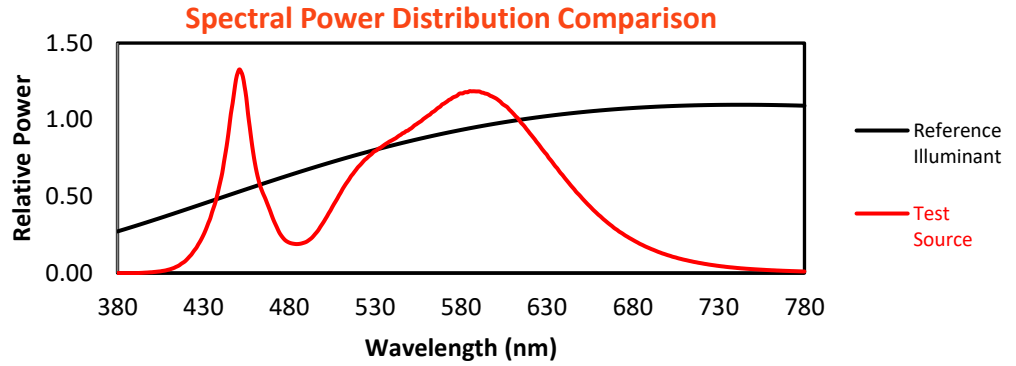
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	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			

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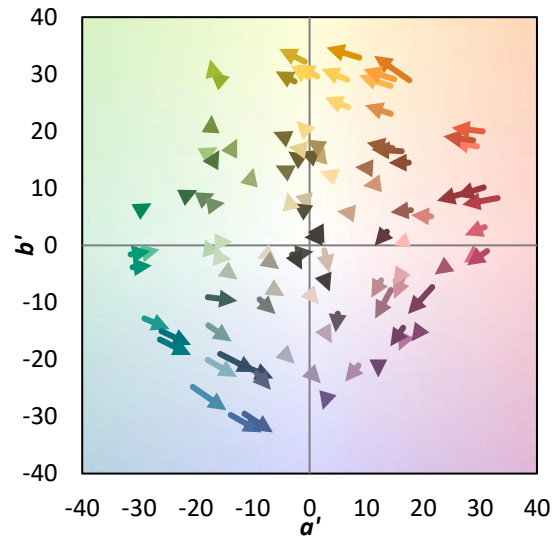
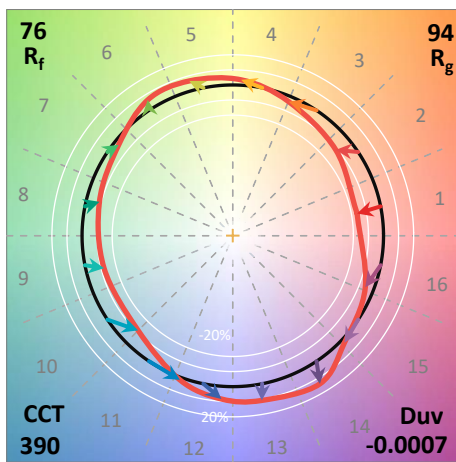
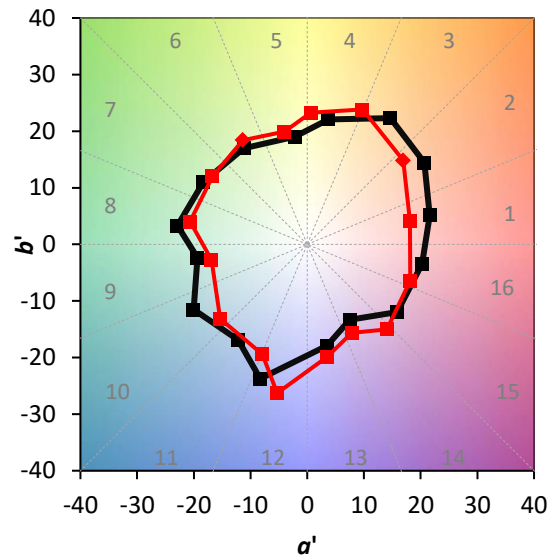
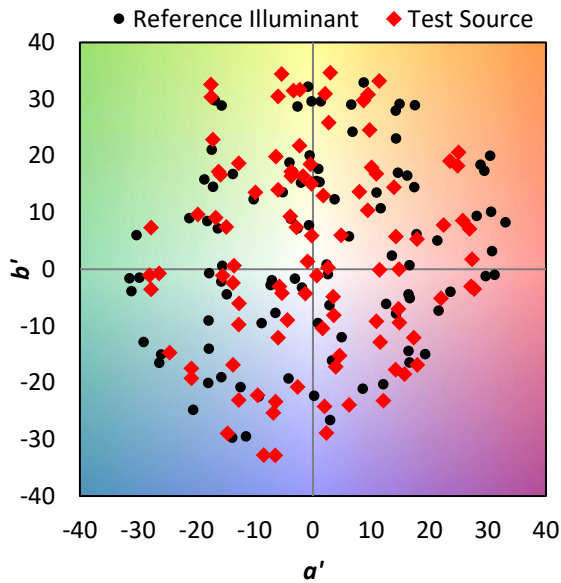
TM-30-18

Summary

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



Color Vector Graphics

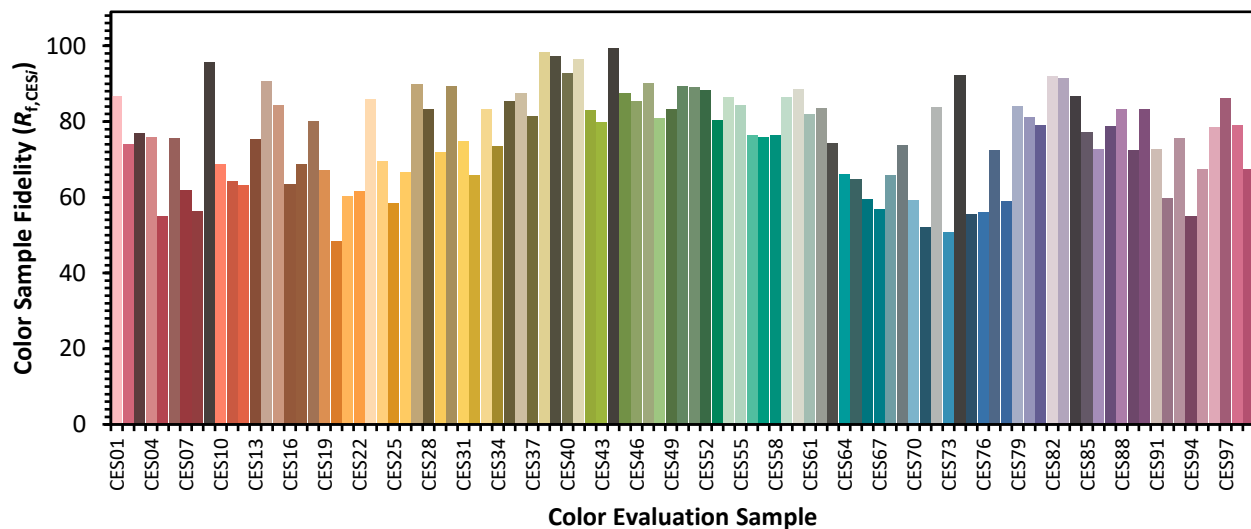


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Individual Sample Fidelity Index ($R_{f,i}$)

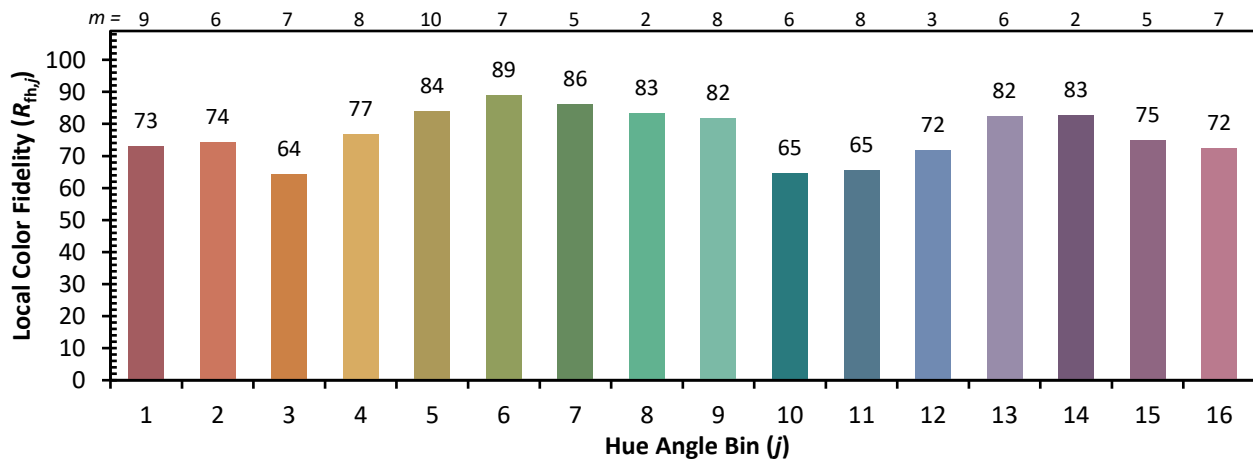
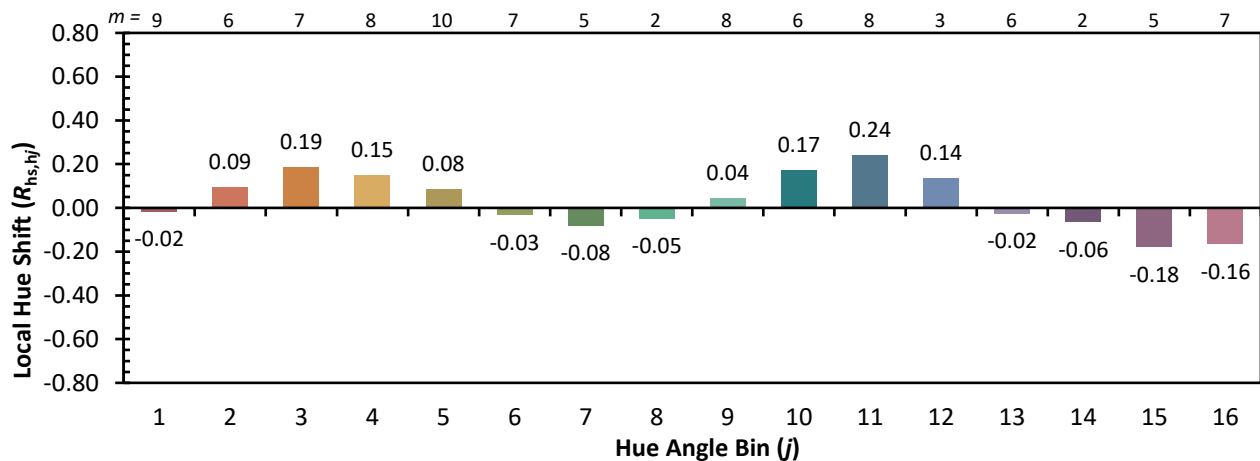
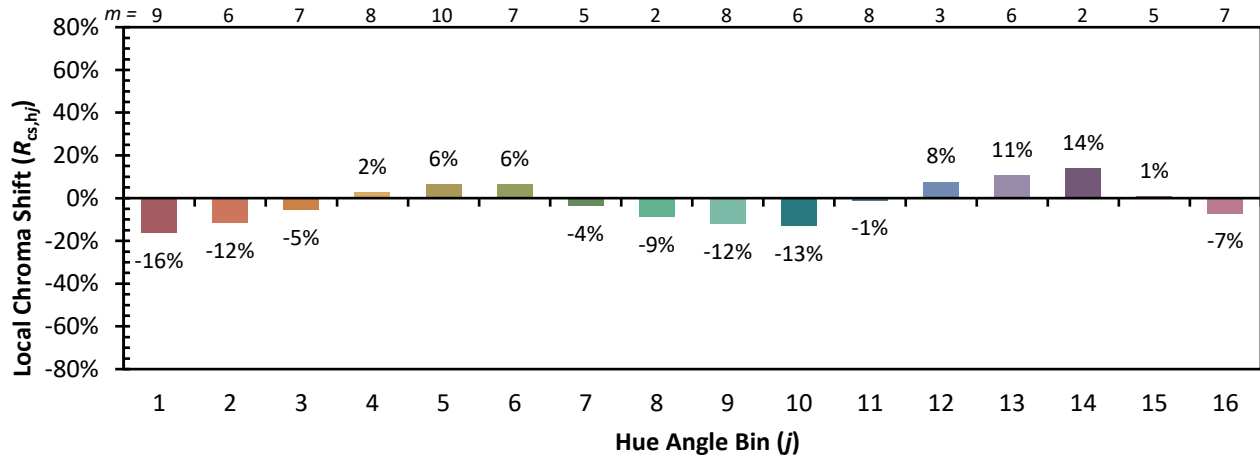
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CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 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	



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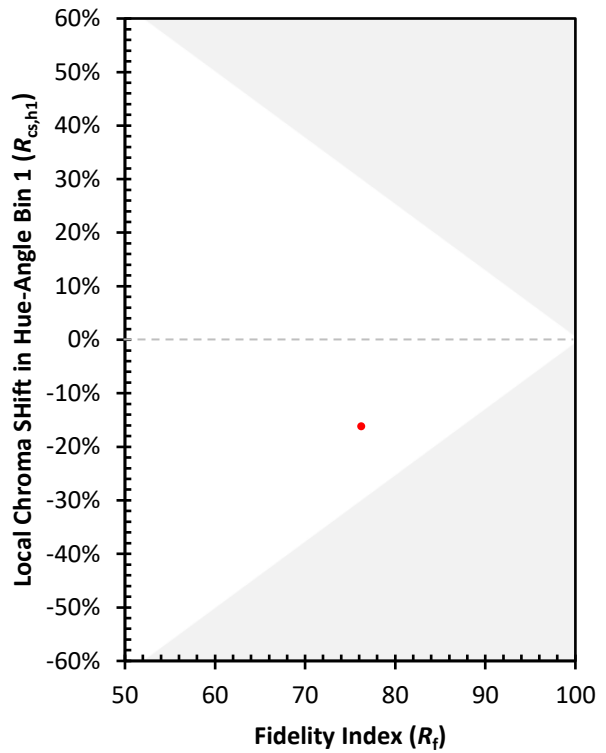
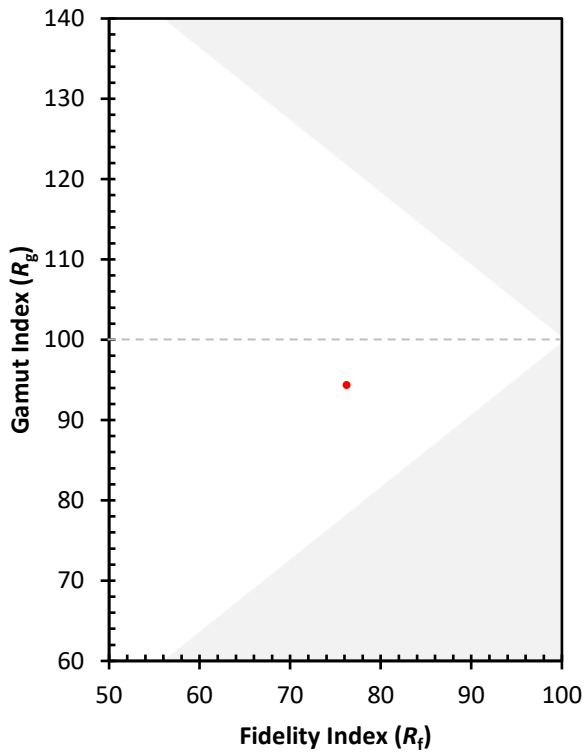
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)