

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: P856130

Luminaire Tested: **FFX-CLB-80-740-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856130
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-740-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

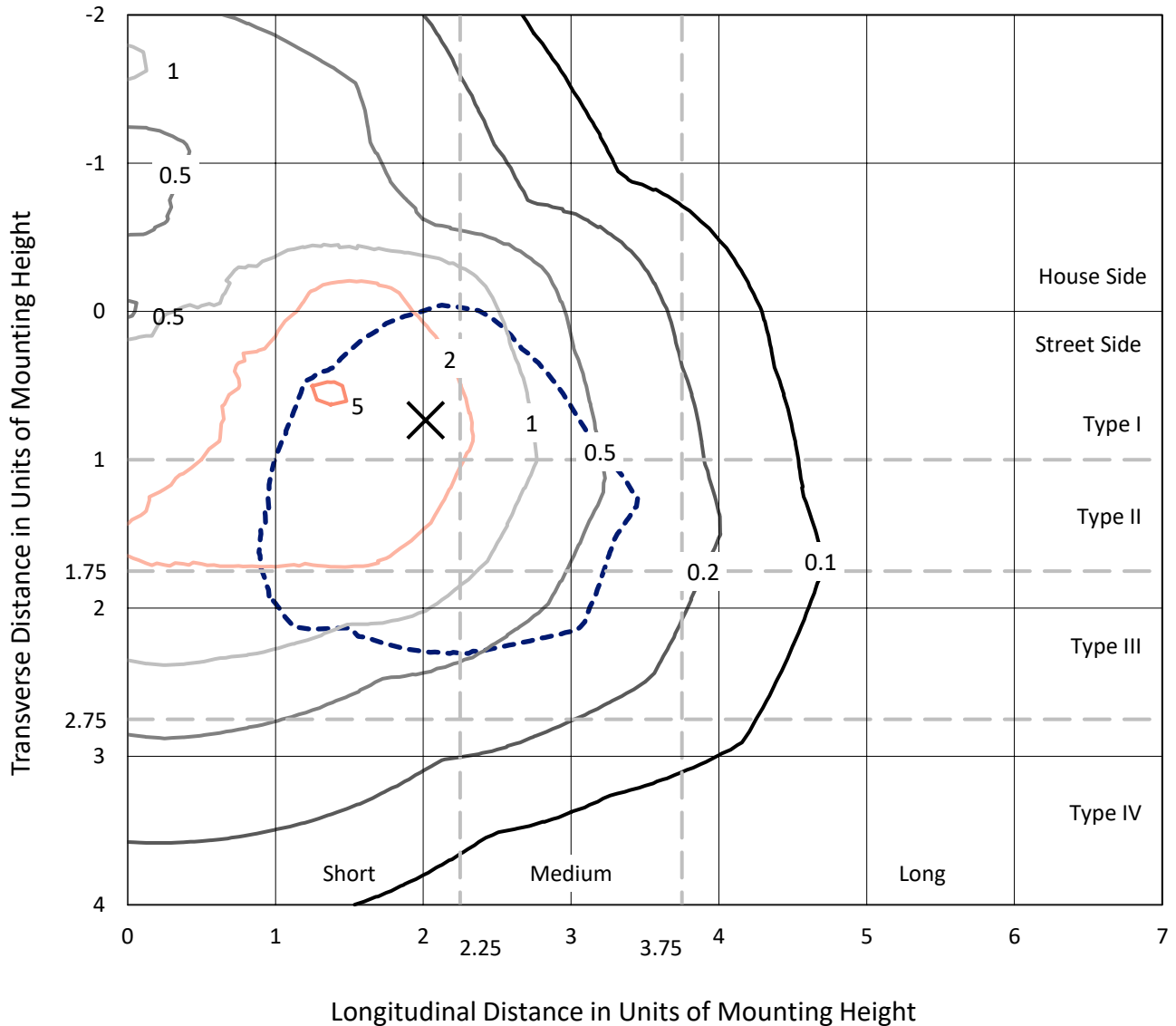
Lumens per Lamp: N/A
Luminaire Lumens: 12850.7 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

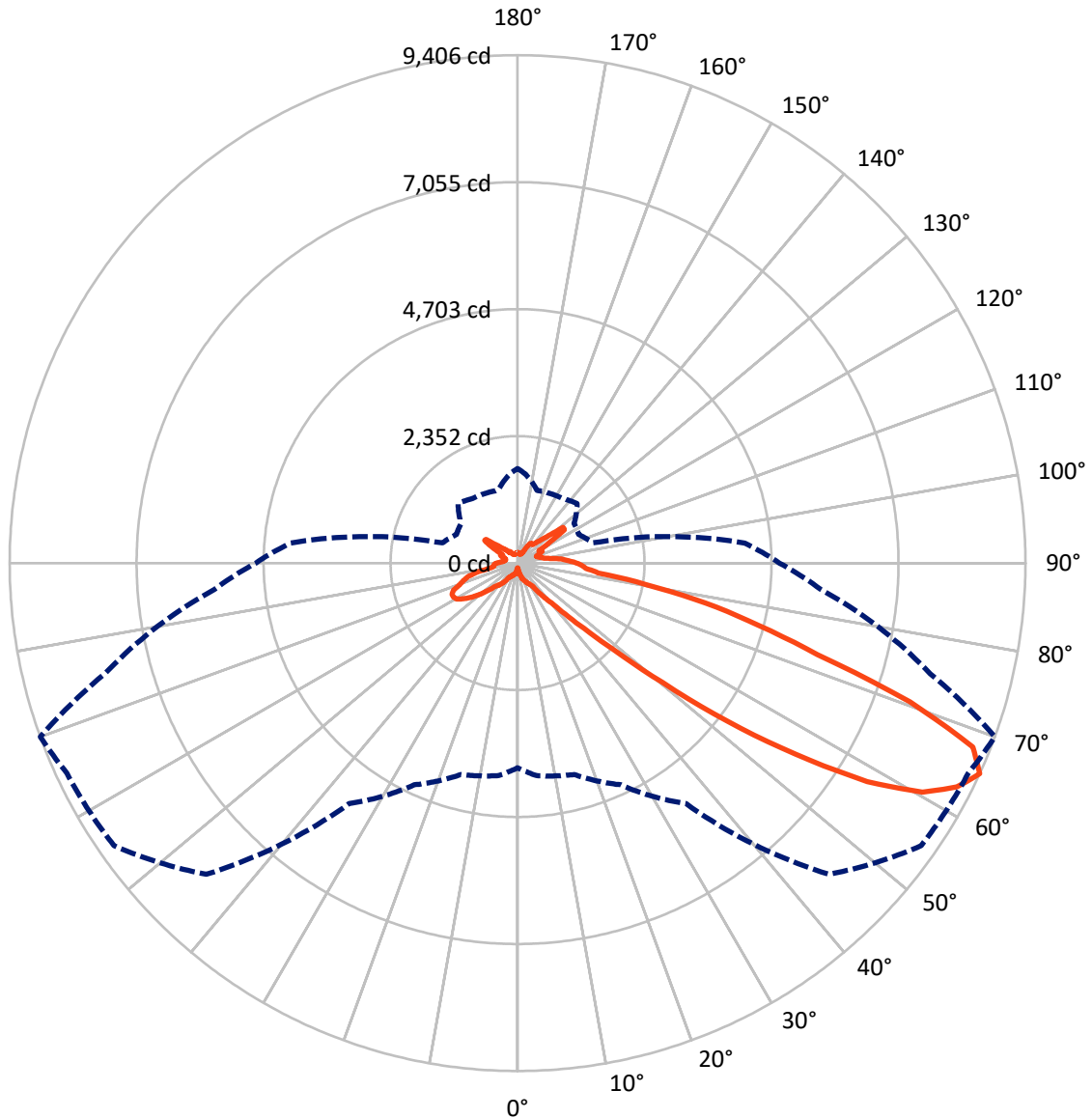
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 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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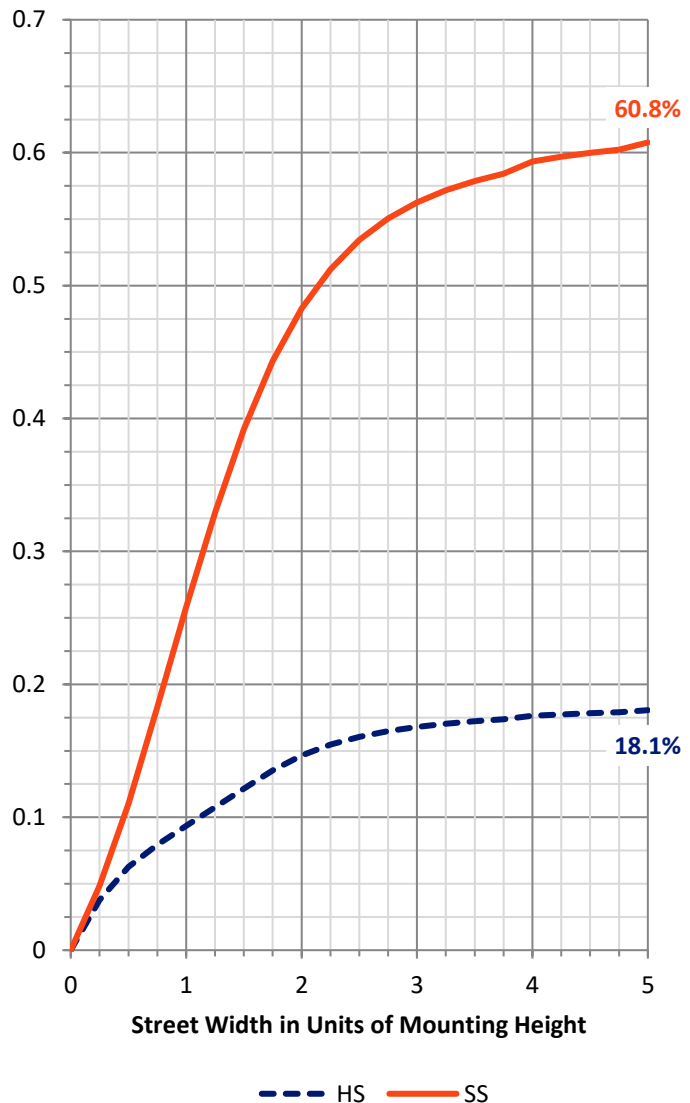
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.7	863.6	3284.3
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	8072.1	1494.3	9566.4
	% Fixture	62.8	11.6	74.4
Total	Lumens	10492.8	2357.9	12850.7
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.1
10°-20°	67.3	0.5
20°-30°	142.9	1.1
30°-40°	291.0	2.3
40°-50°	740.0	5.8
50°-60°	2378.2	18.5
60°-70°	3881.2	30.2
70°-80°	2209.6	17.2
80°-90°	768.8	6.0
90°-100°	478.4	3.7
100°-110°	304.7	2.4
110°-120°	335.2	2.6
120°-130°	566.9	4.4
130°-140°	334.2	2.6
140°-150°	179.9	1.4
150°-160°	90.9	0.7
160°-170°	49.8	0.4
170°-180°	17.9	0.1
0°-90°	10492.8	81.7
0°-180°	12850.7	100.0

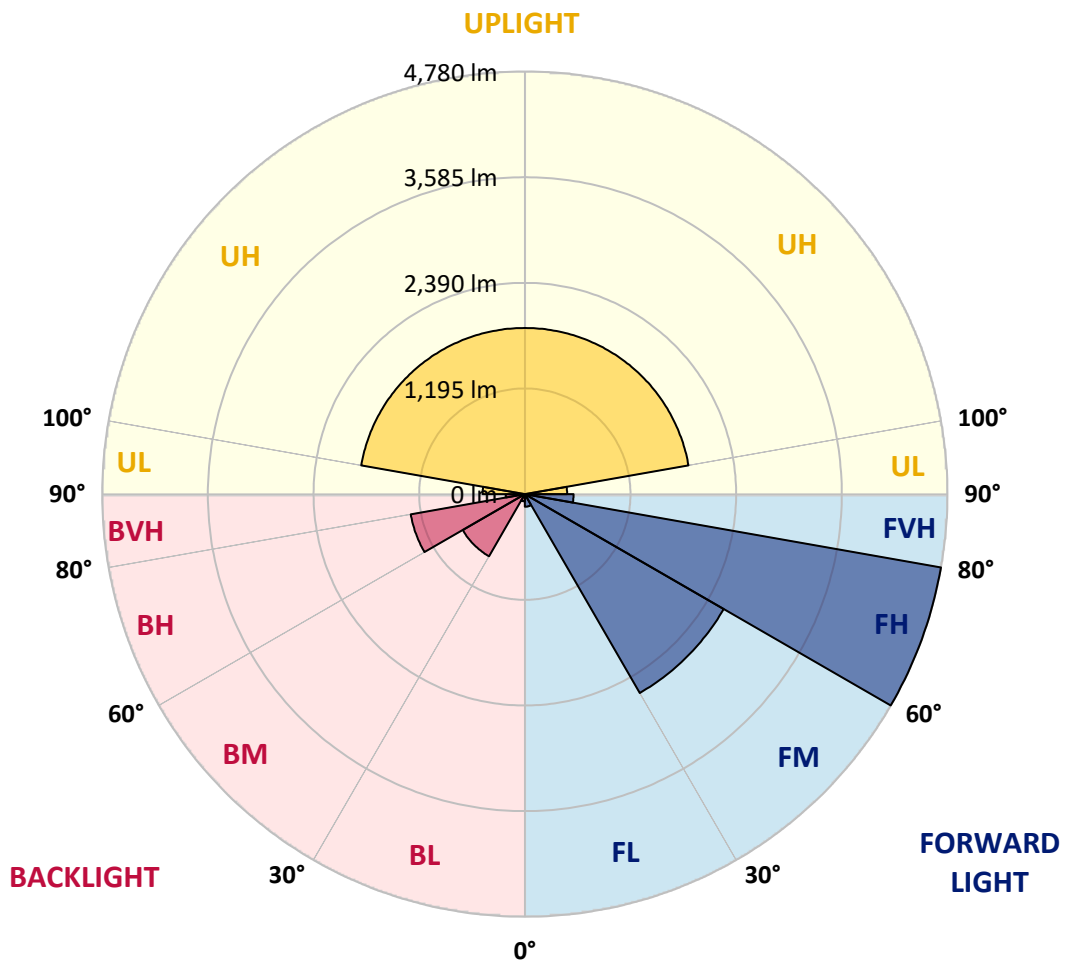


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.6	1.1			
FM (30°-60°)	2597.9	20.2			
FH (60°-80°)	4780.3	37.2			G2/5000
FVH (80°-90°)	551.3	4.3			G4/750
BL (0°-30°)	81.3	0.6	B0/110		
BM (30°-60°)	811.3	6.3	B1/1000		
BH (60°-80°)	1310.5	10.2	B3/2500		G3/2500
BVH (80°-90°)	217.6	1.7			G2/225
UL (90°-100°)	478.4	3.7		U3/500	
UH (100°-180°)	1879.5	14.6		U5	

BUG Rating: B3-U5-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2.5°	102.0	102.0	104.6	104.6	104.6	102.0	100.6	98.0	98.0	98.0	96.7
5°	132.4	131.1	132.4	136.4	137.7	133.8	131.1	127.1	127.1	125.8	125.8
7.5°	178.8	177.5	174.8	170.8	172.2	176.1	181.4	170.8	168.2	161.6	158.9
10°	223.8	221.2	223.8	217.2	210.6	201.3	206.6	203.9	198.6	192.0	186.7
12.5°	272.8	274.1	279.4	274.1	263.5	249.0	246.3	239.7	234.4	233.1	225.1
15°	323.1	324.4	329.7	328.4	317.8	298.0	290.0	283.4	280.7	272.8	255.6
17.5°	349.6	350.9	352.3	353.6	347.0	331.1	319.1	307.2	303.3	300.6	279.4
20°	362.8	360.2	362.8	368.1	373.4	360.2	348.3	341.7	337.7	328.4	300.6
22.5°	384.0	381.4	380.1	384.0	399.9	390.7	378.7	372.1	368.1	356.2	313.8
25°	406.5	403.9	407.9	405.2	425.1	421.1	409.2	402.6	397.3	382.7	333.7
27.5°	431.7	429.1	433.0	430.4	446.3	448.9	441.0	435.7	427.7	406.5	348.3
30°	452.9	450.2	454.2	452.9	468.8	478.1	474.1	472.8	460.8	435.7	373.4
32.5°	470.1	468.8	478.1	482.0	486.0	507.2	504.5	516.5	503.2	472.8	410.5
35°	509.8	513.8	539.0	565.5	569.4	611.8	617.1	660.8	647.6	607.8	532.4
37.5°	787.9	773.4	748.2	723.0	713.8	795.9	807.8	851.5	818.4	744.2	622.4
40°	839.6	815.7	786.6	766.7	769.4	916.4	891.2	1056.8	962.7	851.5	760.1
42.5°	797.2	789.3	891.2	938.9	904.5	1119.0	1076.6	1391.8	1284.5	1011.7	917.7
45°	999.8	983.9	1019.7	1067.4	1077.9	1472.6	1443.4	1773.2	1729.5	1264.7	1177.3
47.5°	1144.2	1129.6	1177.3	1338.8	1477.9	1904.3	2063.2	2538.6	2385.0	1797.0	1594.4
50°	1577.2	1574.5	1721.5	1913.6	2157.2	2770.4	3192.8	3726.5	3478.8	2543.9	2186.4
52.5°	2004.9	2010.2	2190.3	2530.7	2783.6	3866.8	4466.7	4840.2	4873.3	3317.3	2833.9
55°	2328.0	2361.2	2578.3	3149.1	3531.8	4842.8	5621.5	5911.5	6242.6	4482.6	3508.0
57.5°	2958.4	3008.7	3215.3	3774.1	4309.1	6058.5	7110.0	7141.7	7635.7	5775.1	4231.0
60°	3509.3	3627.1	3700.0	4207.2	4936.8	7219.9	8215.7	8152.1	8615.6	6846.4	4964.7
62.5°	3680.1	3815.2	3884.1	4424.4	5433.4	7871.4	8732.2	8811.6	9130.8	7598.6	5413.6
65°	3791.4	3950.3	4053.6	4531.6	5438.7	8149.5	9124.2	9208.9	9406.2	7913.8	5637.4
67.5°	3734.4	3937.0	4069.5	4494.5	5152.7	7935.0	9046.0	8883.1	9092.4	7650.3	5387.1
70°	3260.3	3472.2	3606.0	3922.5	4307.8	6671.6	7798.6	7525.8	7709.8	6385.6	4429.7
72.5°	2656.5	2761.1	2843.2	3016.7	3247.1	4921.0	5926.1	5699.6	5809.5	4804.4	3319.9
75°	2182.4	2214.2	2316.1	2415.5	2453.9	3599.3	4694.5	4487.9	4616.4	3657.6	2641.9
77.5°	1585.1	1603.7	1749.3	1765.2	1756.0	2469.7	3700.0	3518.6	3559.6	2718.7	1971.8
80°	920.4	956.1	1146.8	1137.5	1121.6	1521.6	2604.8	2532.0	2404.9	1846.0	1365.3
82.5°	648.9	684.6	772.0	791.9	781.3	1092.5	1691.1	1643.4	1505.7	1284.5	944.2
85°	683.3	687.3	691.3	700.5	683.3	974.7	1295.1	1271.3	1272.6	1062.1	778.7
87.5°	674.0	689.9	696.6	700.5	683.3	925.7	1203.8	1173.3	1187.9	1009.1	756.2
90°	591.9	621.1	623.7	630.3	621.1	826.3	1080.6	1051.5	1070.0	909.8	688.6
92.5°	483.4	499.2	517.8	542.9	532.4	707.2	919.0	897.8	920.4	787.9	605.2
95°	458.2	475.4	487.3	504.5	488.7	644.9	830.3	787.9	806.5	689.9	521.8
97.5°	378.7	393.3	403.9	410.5	398.6	508.5	637.0	607.8	606.5	533.7	417.1
100°	323.1	332.4	341.7	348.3	337.7	421.1	504.5	493.9	496.6	441.0	358.9
102.5°	307.2	312.5	327.1	328.4	316.5	384.0	454.2	450.2	455.5	407.9	336.4
105°	300.6	304.6	316.5	312.5	301.9	358.9	418.5	421.1	421.1	380.1	315.2
107.5°	280.7	287.4	300.6	294.0	288.7	331.1	385.4	376.1	378.7	353.6	299.3
110°	278.1	283.4	296.6	291.3	287.4	323.1	370.8	368.1	372.1	349.6	307.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	345.6	340.3	350.9	340.3	347.0	377.4	427.7	422.4	434.4	426.4	384.0
115°	426.4	429.1	439.7	418.5	425.1	455.5	483.4	492.6	503.2	491.3	447.6
117.5°	394.6	417.1	403.9	401.3	396.0	419.8	415.8	439.7	450.2	441.0	423.8
120°	422.4	450.2	411.8	392.0	384.0	443.6	472.8	471.4	463.5	445.0	409.2
122.5°	631.7	635.6	638.3	697.9	676.7	735.0	752.2	729.7	729.7	753.5	680.7
125°	985.2	989.2	986.6	1013.1	998.5	1054.1	1076.6	1075.3	1062.1	1050.1	978.6
127.5°	995.8	995.8	986.6	972.0	985.2	1039.5	1040.9	1091.2	1074.0	1042.2	976.0
130°	695.2	700.5	733.6	744.2	762.8	774.7	761.4	805.2	813.1	807.8	762.8
132.5°	576.1	585.3	621.1	634.3	646.2	647.6	642.3	676.7	684.6	684.6	664.8
135°	497.9	508.5	512.5	505.9	523.1	536.3	546.9	574.7	572.1	566.8	549.6
137.5°	434.4	438.3	426.4	411.8	421.1	459.5	480.7	509.8	508.5	499.2	470.1
140°	366.8	368.1	361.5	354.9	364.2	397.3	417.1	448.9	445.0	438.3	403.9
142.5°	278.1	282.1	299.3	312.5	335.0	403.9	393.3	421.1	441.0	456.9	377.4
145°	292.7	287.4	284.7	299.3	328.4	427.7	397.3	433.0	442.3	452.9	361.5
147.5°	337.7	340.3	336.4	327.1	366.8	398.6	381.4	413.2	418.5	415.8	378.7
150°	264.9	268.8	270.1	266.2	315.2	313.8	296.6	320.5	323.1	323.1	298.0
152.5°	215.9	217.2	214.5	211.9	243.7	238.4	230.4	238.4	237.0	235.7	230.4
155°	205.3	205.3	202.6	203.9	225.1	219.8	214.5	219.8	217.2	213.2	207.9
157.5°	189.4	190.7	190.7	194.7	207.9	198.6	193.3	196.0	193.3	190.7	190.7
160°	178.8	178.8	180.1	185.4	193.3	184.1	180.1	181.4	180.1	177.5	178.8
162.5°	174.8	174.8	176.1	178.8	180.1	174.8	170.8	170.8	170.8	170.8	174.8
165°	172.2	172.2	172.2	173.5	173.5	169.5	168.2	169.5	170.8	172.2	177.5
167.5°	177.5	177.5	177.5	177.5	176.1	173.5	172.2	173.5	174.8	176.1	180.1
170°	185.4	184.1	184.1	182.7	181.4	178.8	177.5	176.1	176.1	177.5	178.8
172.5°	190.7	190.7	189.4	189.4	188.0	185.4	182.7	181.4	181.4	181.4	181.4
175°	197.3	197.3	197.3	197.3	196.0	193.3	192.0	189.4	189.4	189.4	189.4
177.5°	205.3	205.3	205.3	205.3	202.6	200.0	197.3	194.7	194.7	194.7	193.3
180°	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2.5°	95.3	94.0	90.0	88.7	87.4	84.8	82.1	80.8	79.5	79.5	80.8
5°	127.1	125.8	125.8	121.8	117.9	111.2	108.6	108.6	109.9	111.2	113.9
7.5°	160.2	162.9	165.5	158.9	147.0	131.1	121.8	124.5	131.1	136.4	136.4
10°	185.4	185.4	194.7	186.7	166.9	147.0	133.8	131.1	132.4	133.8	135.1
12.5°	221.2	221.2	215.9	194.7	174.8	154.9	144.3	141.7	141.7	136.4	135.1
15°	247.6	239.7	221.2	201.3	184.1	164.2	152.3	148.3	144.3	140.4	139.0
17.5°	263.5	249.0	223.8	205.3	188.0	172.2	160.2	152.3	148.3	149.6	149.6
20°	282.1	266.2	243.7	223.8	202.6	181.4	166.9	154.9	151.0	152.3	151.0
22.5°	296.6	280.7	258.2	235.7	213.2	190.7	173.5	158.9	153.6	154.9	154.9
25°	313.8	300.6	276.8	250.3	222.5	201.3	184.1	166.9	158.9	157.6	157.6
27.5°	331.1	321.8	296.6	264.9	235.7	210.6	193.3	173.5	164.2	160.2	160.2
30°	353.6	343.0	317.8	279.4	247.6	223.8	205.3	184.1	170.8	164.2	162.9
32.5°	389.3	377.4	347.0	305.9	260.9	237.0	217.2	193.3	176.1	168.2	166.9
35°	505.9	487.3	439.7	392.0	319.1	264.9	231.7	201.3	181.4	170.8	169.5
37.5°	578.7	533.7	470.1	438.3	358.9	324.4	279.4	230.4	189.4	176.1	173.5
40°	696.6	634.3	554.9	492.6	349.6	354.9	327.1	287.4	225.1	185.4	181.4
42.5°	795.9	717.7	597.2	516.5	350.9	370.8	349.6	316.5	270.1	219.8	211.9
45°	981.3	880.6	693.9	554.9	360.2	394.6	368.1	333.7	292.7	258.2	254.3
47.5°	1325.6	1189.2	867.4	618.4	421.1	458.2	410.5	365.5	328.4	288.7	282.1
50°	1814.2	1651.4	1067.4	668.8	525.7	603.9	517.8	442.3	399.9	370.8	366.8
52.5°	2377.0	2206.2	1214.3	761.4	652.9	784.0	684.6	597.2	541.6	541.6	549.6
55°	3031.2	2860.4	1332.2	889.9	809.1	982.6	875.3	803.8	777.3	889.9	920.4
57.5°	3680.1	3462.9	1411.7	1021.0	991.9	1215.7	1087.2	1026.3	1075.3	1409.0	1512.3
60°	4272.1	3913.2	1473.9	1145.5	1148.1	1401.1	1305.7	1301.7	1377.2	1803.6	1934.7
62.5°	4613.7	4125.1	1469.9	1217.0	1239.5	1516.3	1436.8	1458.0	1500.4	1869.9	1969.2
65°	4848.1	4225.7	1439.5	1248.8	1277.9	1557.3	1458.0	1422.3	1394.4	1655.3	1750.7
67.5°	4686.6	3990.0	1370.6	1202.4	1254.1	1497.7	1366.6	1264.7	1210.4	1342.8	1407.7
70°	3925.1	3327.9	1213.0	1081.9	1129.6	1262.0	1136.2	1035.6	978.6	1050.1	1080.6
72.5°	2973.0	2532.0	1093.8	1011.7	990.5	1043.5	924.3	811.8	777.3	823.7	830.3
75°	2367.8	1981.1	1006.4	915.1	831.6	883.3	737.6	601.2	581.4	581.4	570.8
77.5°	1775.8	1468.6	858.1	712.5	613.1	697.9	549.6	418.5	392.0	386.7	372.1
80°	1190.5	999.8	577.4	472.8	441.0	517.8	390.7	307.2	308.6	307.2	290.0
82.5°	831.6	772.0	468.8	411.8	377.4	407.9	353.6	295.3	292.7	295.3	276.8
85°	737.6	707.2	454.2	425.1	389.3	393.3	339.0	279.4	280.7	286.0	270.1
87.5°	708.5	674.0	455.5	410.5	380.1	364.2	307.2	258.2	266.2	271.5	258.2
90°	638.3	603.9	418.5	370.8	339.0	316.5	271.5	245.0	255.6	260.9	249.0
92.5°	553.5	517.8	348.3	327.1	319.1	319.1	284.7	260.9	267.5	270.1	259.6
95°	476.7	442.3	309.9	287.4	280.7	282.1	254.3	234.4	238.4	237.0	229.1
97.5°	385.4	364.2	270.1	255.6	249.0	246.3	227.8	213.2	221.2	226.4	219.8
100°	340.3	329.7	260.9	250.3	241.0	239.7	223.8	214.5	221.2	229.1	223.8
102.5°	317.8	309.9	249.0	234.4	227.8	225.1	214.5	203.9	210.6	218.5	214.5
105°	299.3	287.4	238.4	225.1	215.9	214.5	203.9	190.7	194.7	205.3	202.6
107.5°	283.4	275.4	237.0	222.5	210.6	210.6	198.6	188.0	189.4	193.3	193.3
110°	296.6	287.4	246.3	235.7	219.8	214.5	211.9	203.9	197.3	194.7	194.7



REPORT NUMBER: P856130
 CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	366.8	349.6	308.6	296.6	270.1	251.6	234.4	218.5	207.9	203.9	201.3
115°	433.0	413.2	364.2	333.7	298.0	270.1	246.3	229.1	213.2	207.9	213.2
117.5°	446.3	393.3	317.8	292.7	271.5	254.3	241.0	227.8	215.9	219.8	215.9
120°	442.3	377.4	320.5	356.2	320.5	280.7	249.0	249.0	245.0	225.1	229.1
122.5°	680.7	635.6	566.8	545.6	445.0	406.5	347.0	296.6	247.6	219.8	206.6
125°	932.3	888.6	782.6	701.9	601.2	495.3	380.1	292.7	229.1	202.6	206.6
127.5°	937.6	897.8	797.2	660.8	528.4	423.8	316.5	259.6	223.8	206.6	203.9
130°	731.0	692.6	606.5	501.9	418.5	349.6	284.7	234.4	202.6	189.4	185.4
132.5°	633.0	598.6	519.1	423.8	362.8	308.6	254.3	203.9	182.7	173.5	174.8
135°	532.4	491.3	415.8	364.2	325.8	276.8	227.8	186.7	176.1	173.5	172.2
137.5°	451.6	422.4	369.5	329.7	292.7	249.0	200.0	174.8	170.8	173.5	170.8
140°	384.0	360.2	331.1	296.6	251.6	210.6	178.8	166.9	173.5	174.8	173.5
142.5°	331.1	307.2	276.8	230.4	209.2	190.7	182.7	173.5	173.5	172.2	170.8
145°	276.8	245.0	230.4	237.0	223.8	205.3	190.7	172.2	165.5	165.5	166.9
147.5°	317.8	284.7	266.2	251.6	226.4	200.0	177.5	160.2	157.6	162.9	161.6
150°	274.1	243.7	230.4	210.6	194.7	174.8	160.2	153.6	154.9	161.6	161.6
152.5°	218.5	197.3	189.4	184.1	176.1	164.2	156.3	153.6	156.3	158.9	158.9
155°	205.3	193.3	184.1	180.1	170.8	161.6	154.9	153.6	156.3	158.9	161.6
157.5°	192.0	188.0	176.1	172.2	164.2	160.2	156.3	156.3	157.6	160.2	162.9
160°	182.7	181.4	170.8	169.5	164.2	161.6	161.6	162.9	164.2	164.2	164.2
162.5°	177.5	177.5	173.5	170.8	169.5	168.2	172.2	173.5	172.2	172.2	172.2
165°	178.8	180.1	176.1	173.5	172.2	174.8	181.4	181.4	178.8	177.5	176.1
167.5°	180.1	181.4	178.8	177.5	177.5	180.1	182.7	181.4	180.1	178.8	177.5
170°	178.8	180.1	180.1	181.4	181.4	181.4	184.1	184.1	181.4	180.1	180.1
172.5°	181.4	182.7	184.1	185.4	186.7	185.4	186.7	186.7	186.7	186.7	188.0
175°	189.4	189.4	190.7	190.7	189.4	190.7	190.7	190.7	192.0	194.7	194.7
177.5°	193.3	193.3	192.0	192.0	190.7	192.0	192.0	192.0	192.0	193.3	192.0
180°	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0	196.0

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.

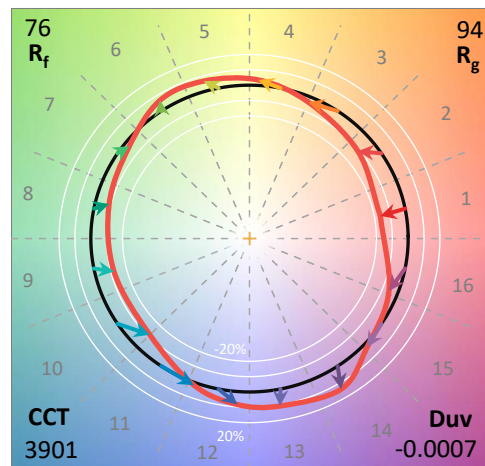
Test Information

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

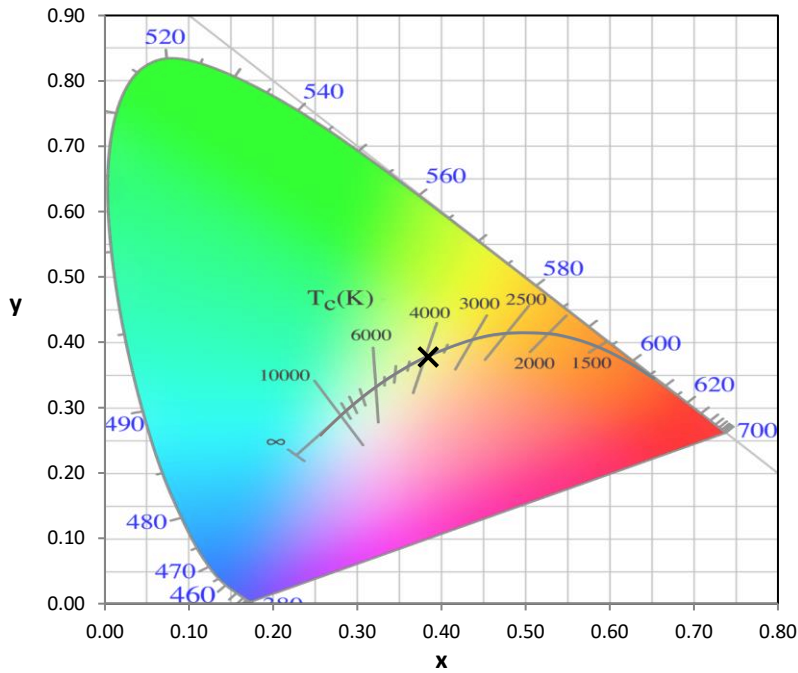
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

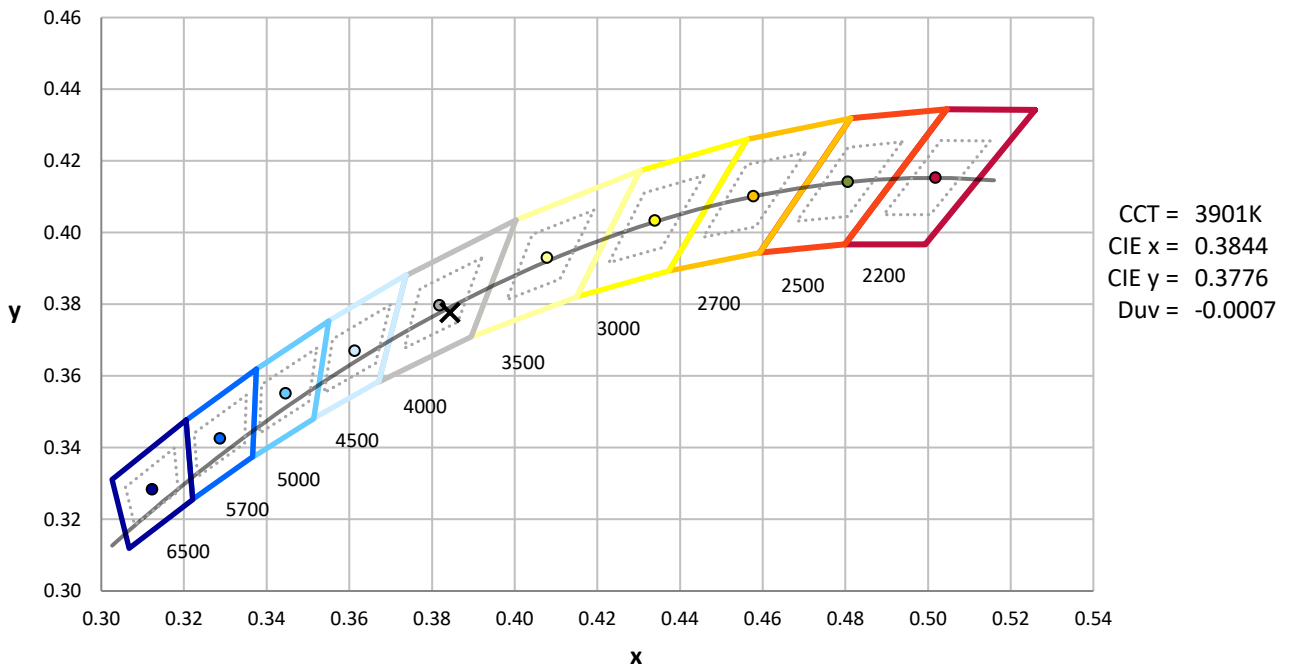
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



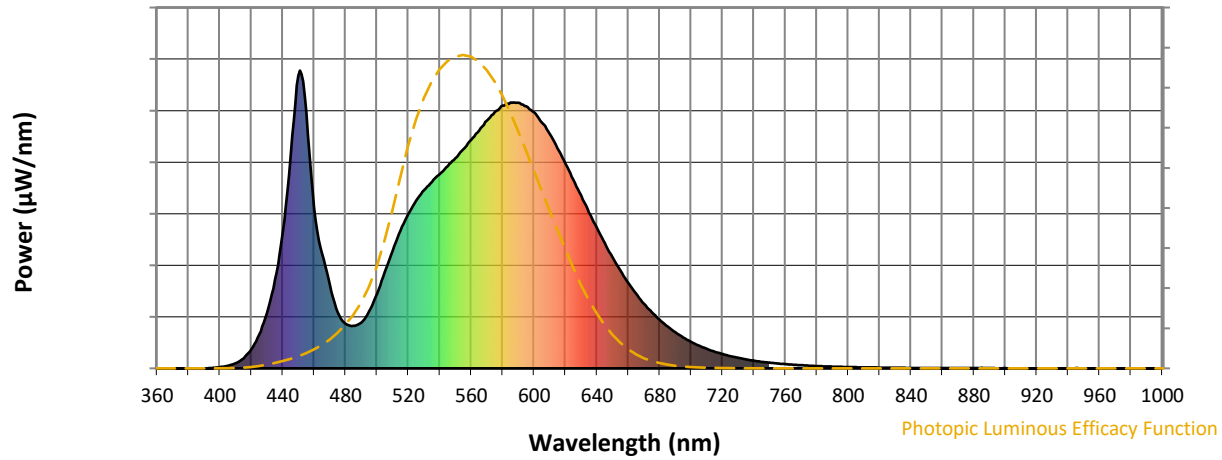
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

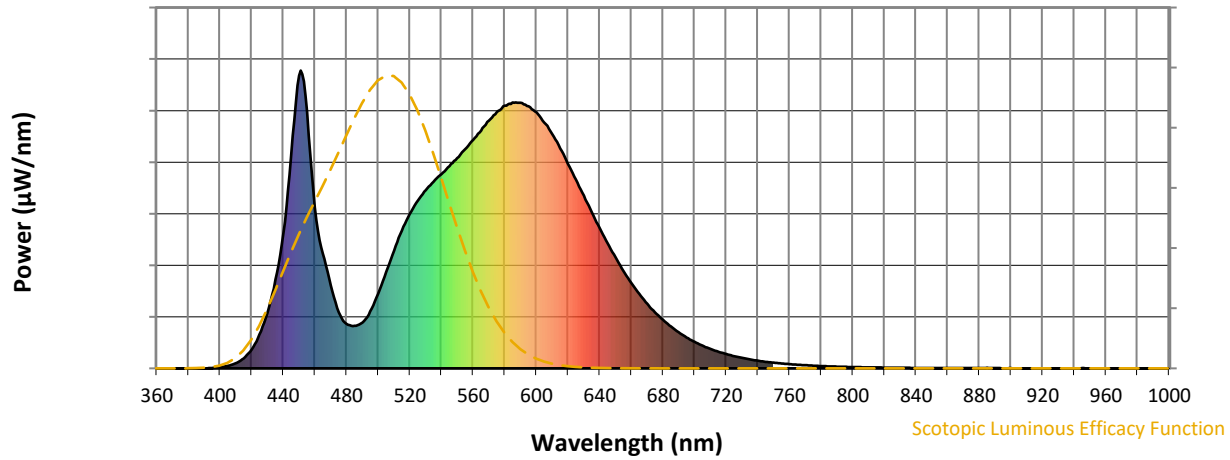


Photopic Lumens: NR

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



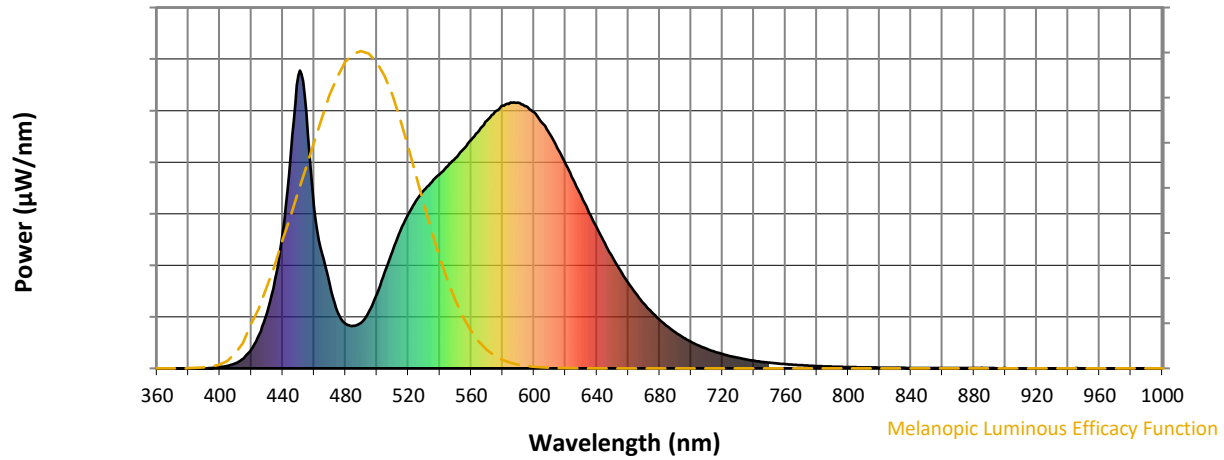
Scotopic Lumens: NR

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

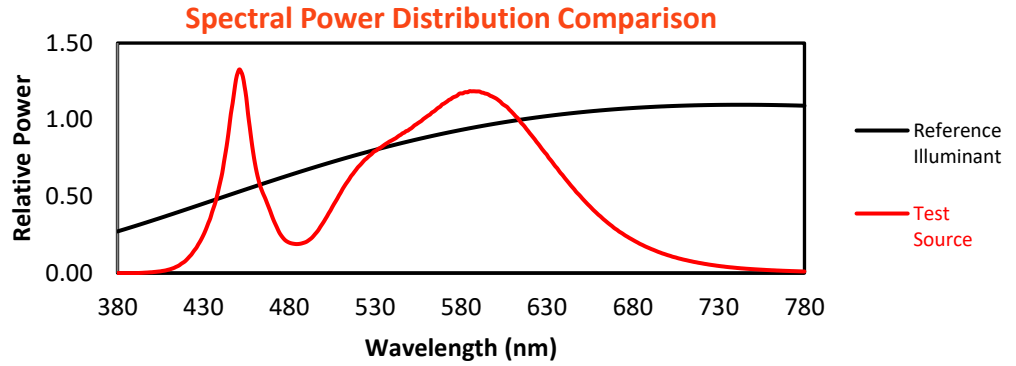
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	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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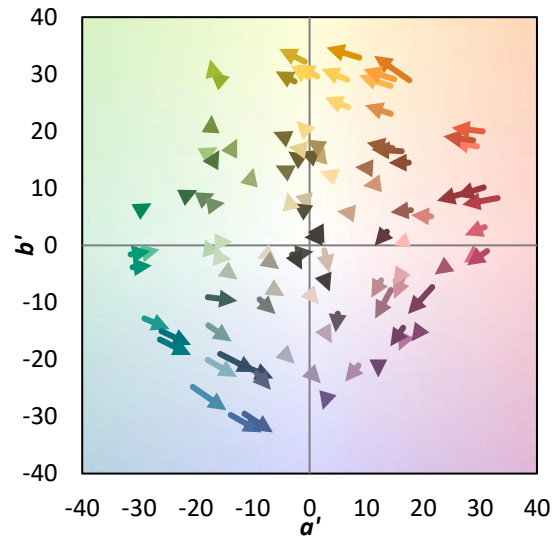
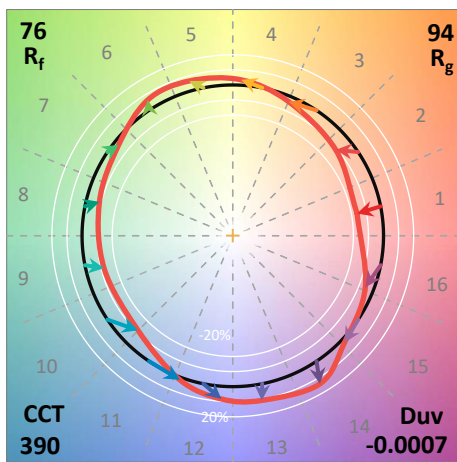
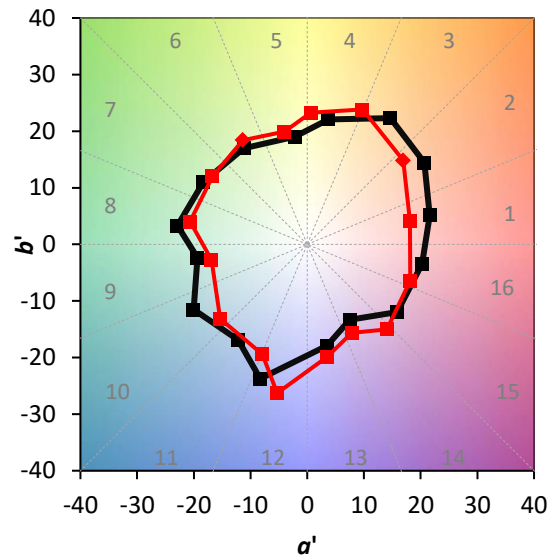
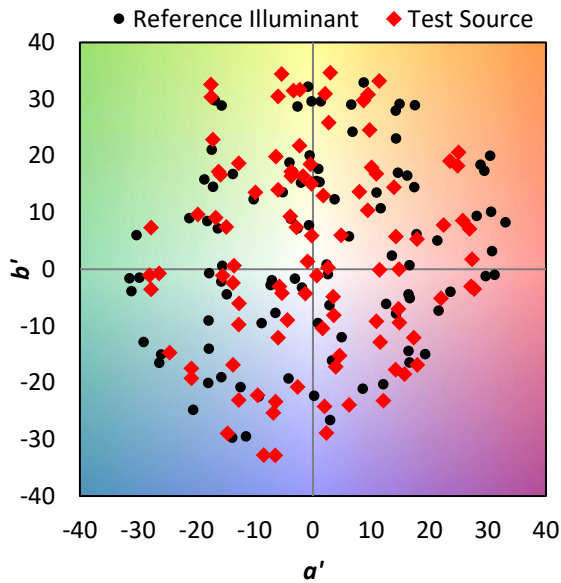
TM-30-18

Summary

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



Color Vector Graphics

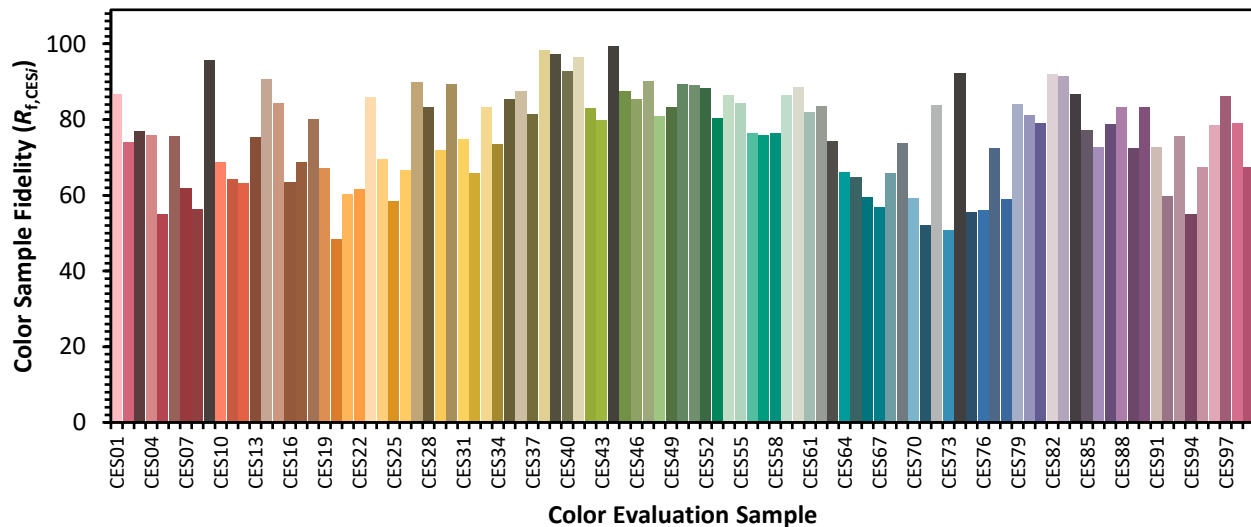


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TM-30-18

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

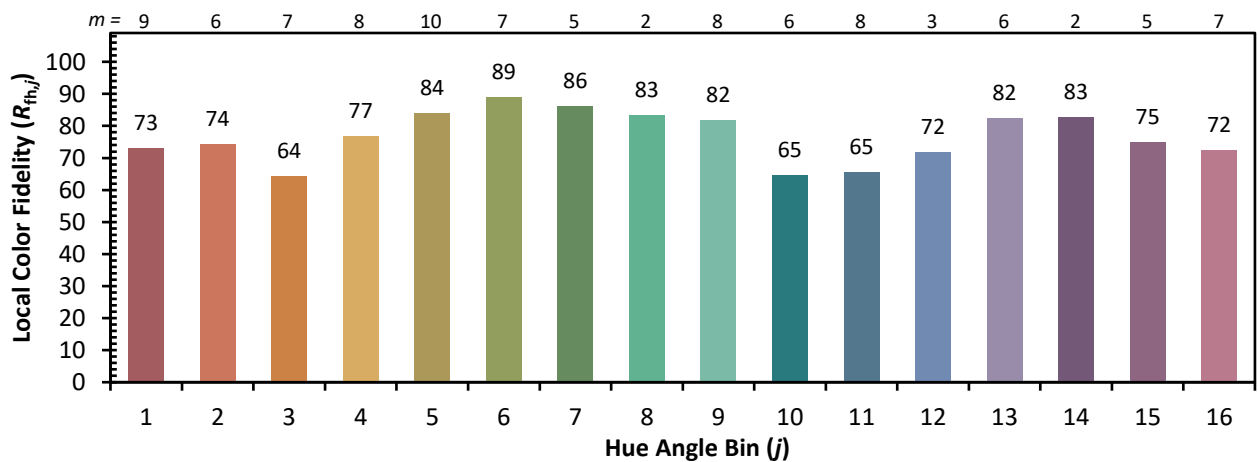
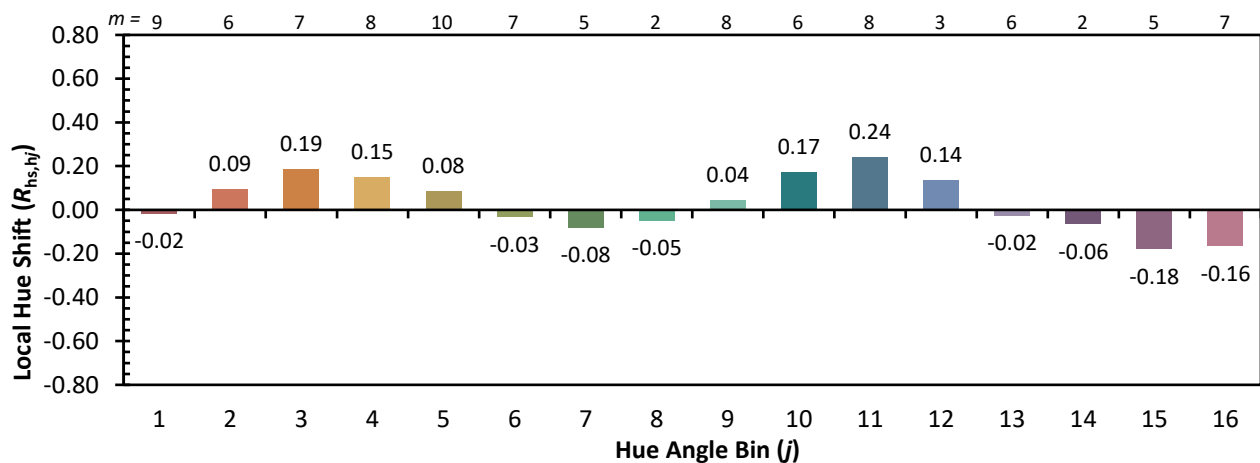
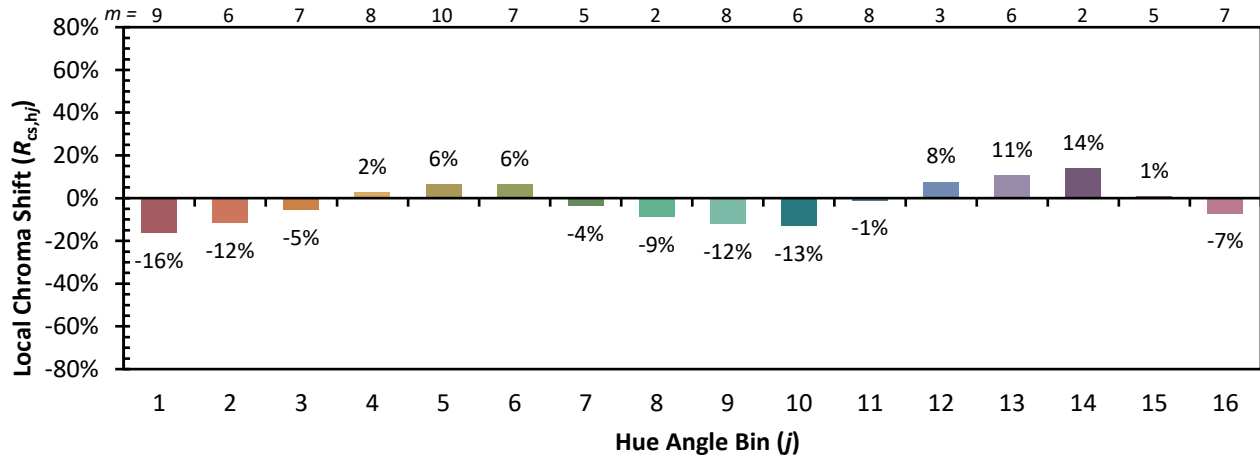
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 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	



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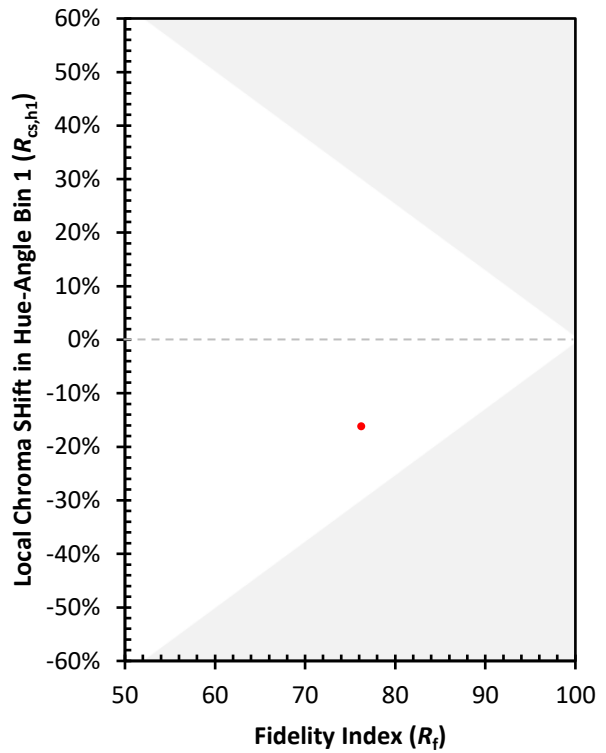
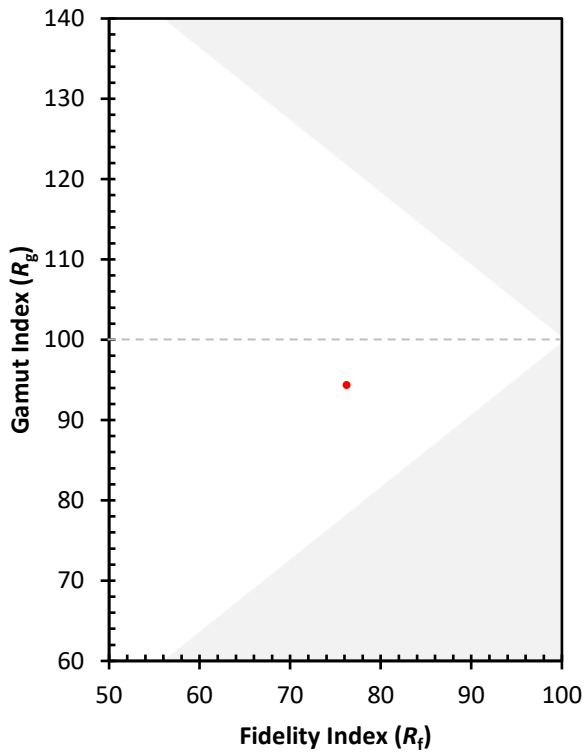
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)