

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: P856120

Luminaire Tested: **FFX-CLB-90-730-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856120
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-730-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

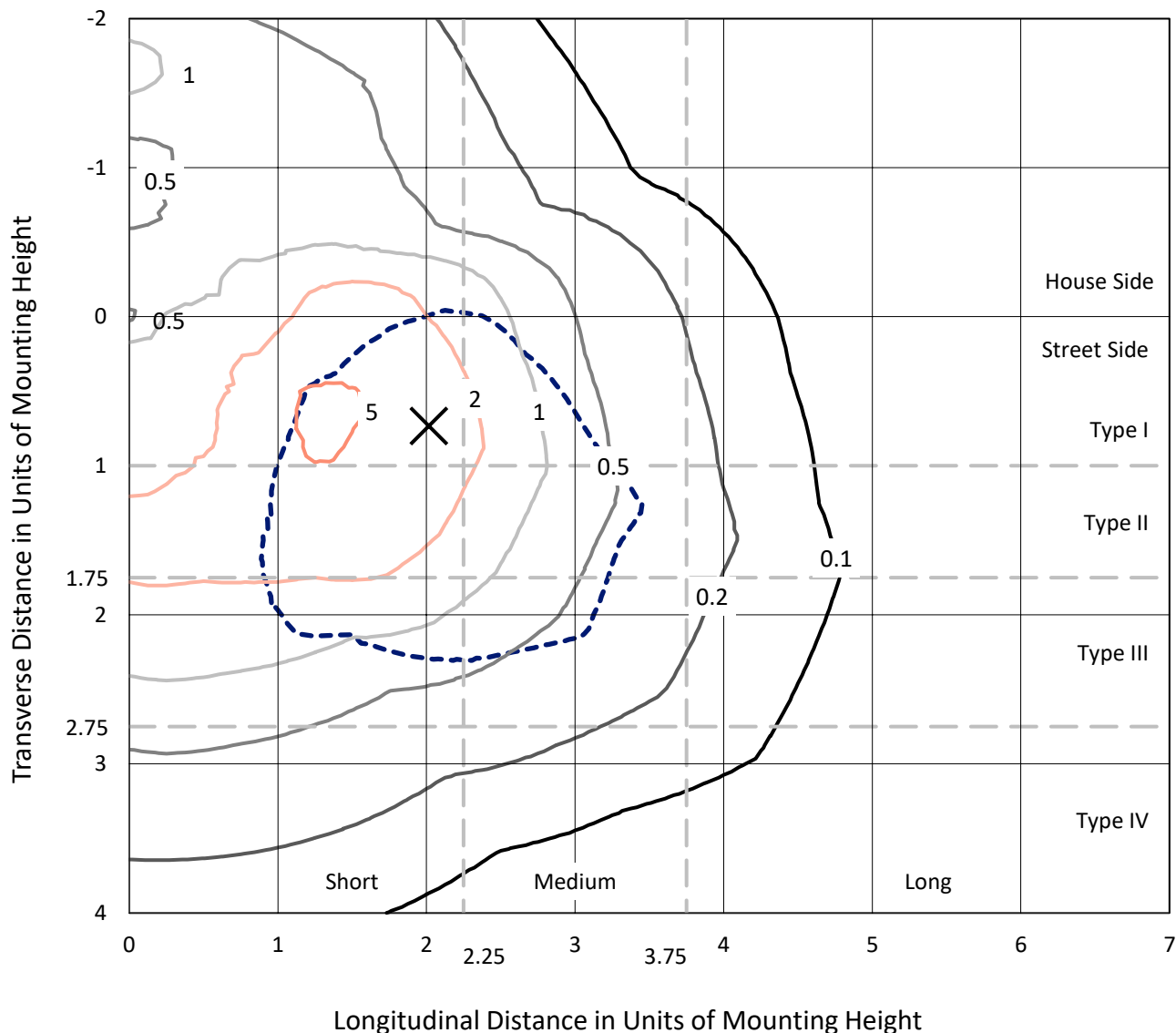
Lumens per Lamp: N/A
Luminaire Lumens: 13826.1 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
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

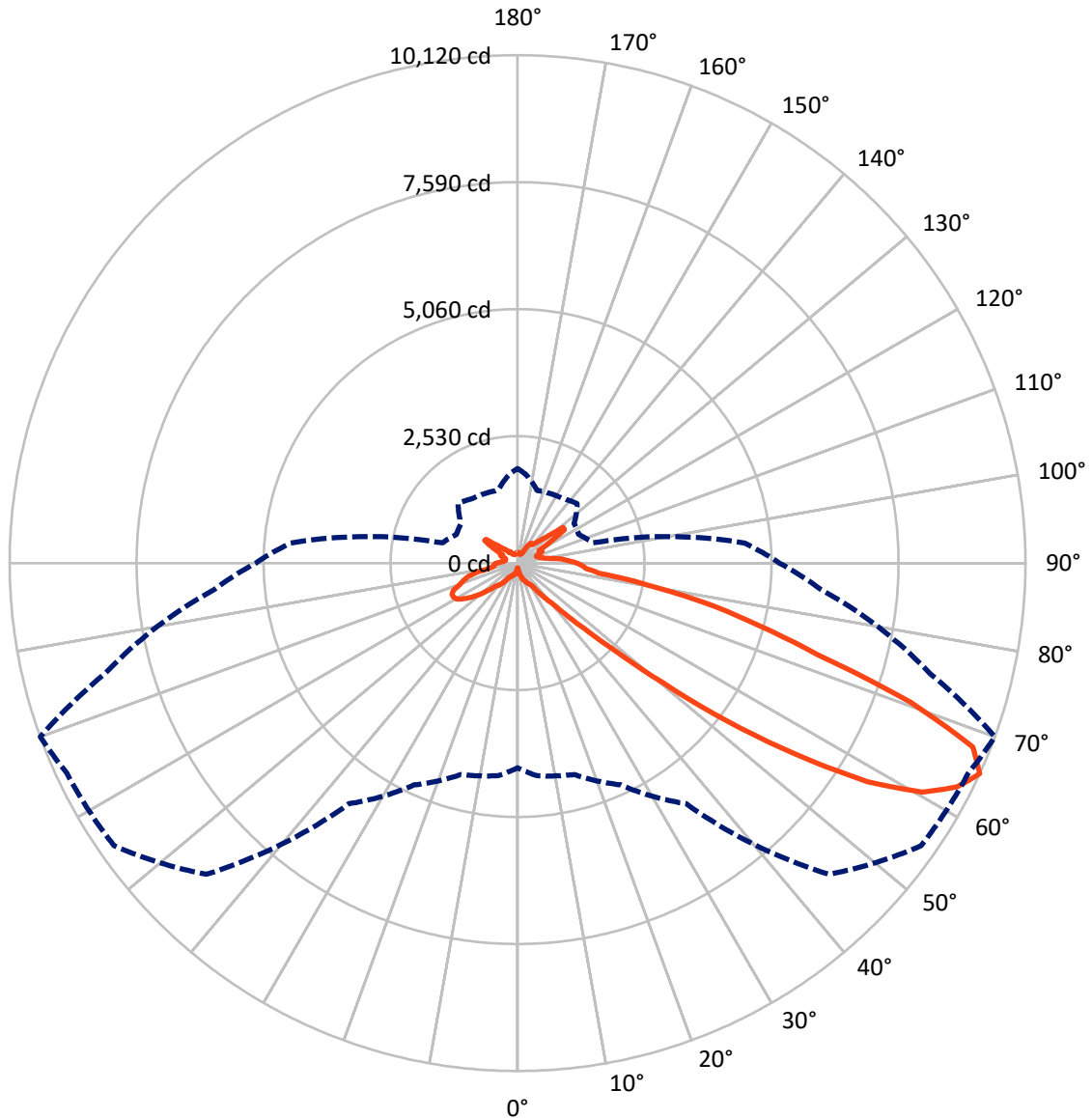
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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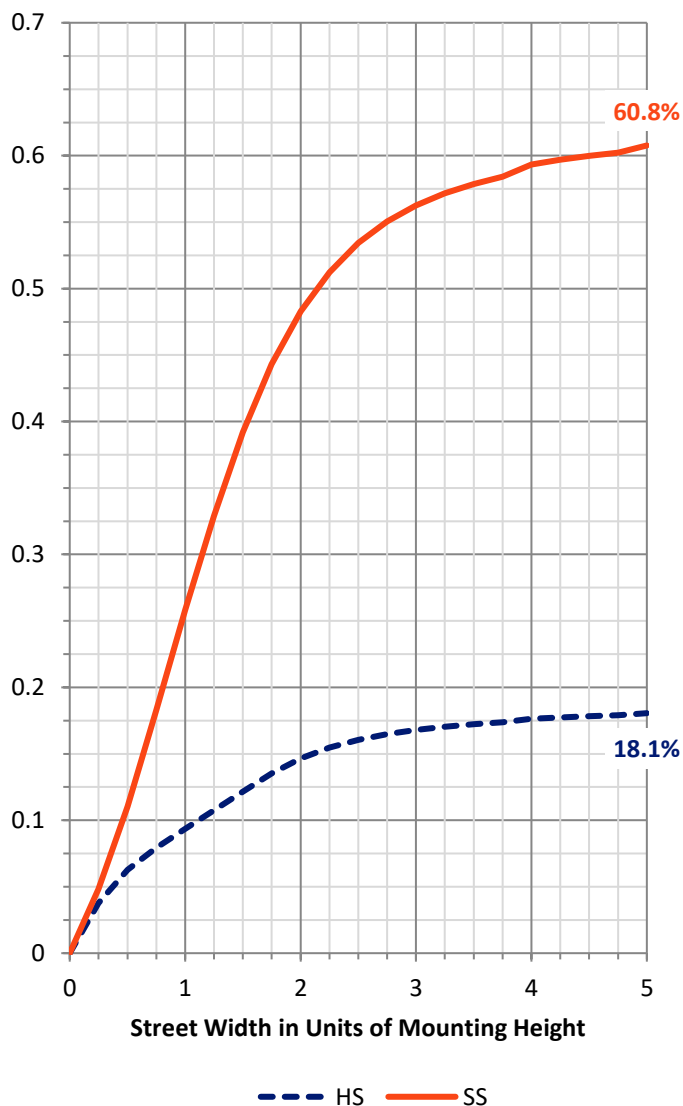
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2604.4	929.1	3533.5
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	8684.8	1607.8	10292.6
	% Fixture	62.8	11.6	74.4
Total	Lumens	11289.2	2536.9	13826.1
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.1
10°-20°	72.4	0.5
20°-30°	153.8	1.1
30°-40°	313.1	2.3
40°-50°	796.2	5.8
50°-60°	2558.7	18.5
60°-70°	4175.8	30.2
70°-80°	2377.3	17.2
80°-90°	827.2	6.0
90°-100°	514.7	3.7
100°-110°	327.8	2.4
110°-120°	360.7	2.6
120°-130°	609.9	4.4
130°-140°	359.6	2.6
140°-150°	193.5	1.4
150°-160°	97.8	0.7
160°-170°	53.5	0.4
170°-180°	19.3	0.1
0°-90°	11289.2	81.7
0°-180°	13826.1	100.0

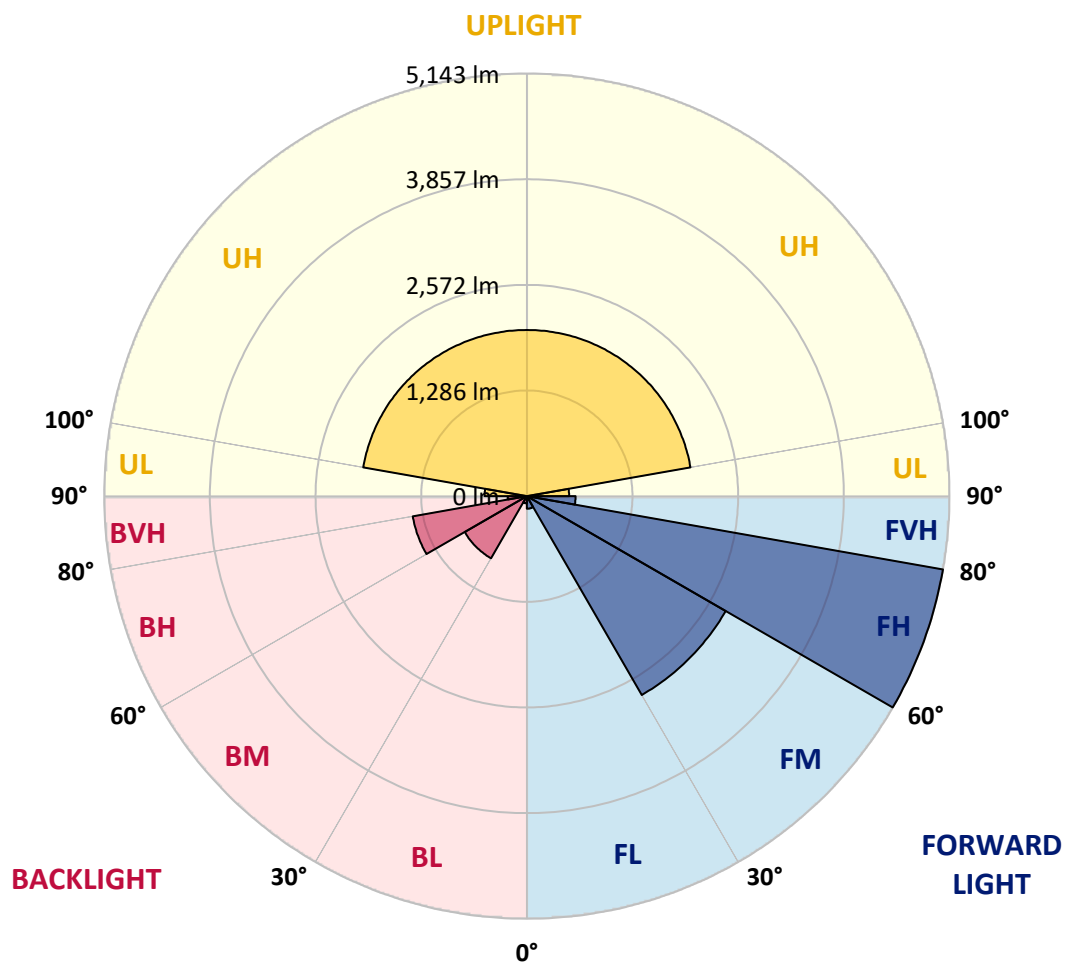


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.5	1.1			
FM (30°-60°)	2795.1	20.2			
FH (60°-80°)	5143.1	37.2			G3/7500
FVH (80°-90°)	593.1	4.3			G4/750
BL (0°-30°)	87.5	0.6	B0/110		
BM (30°-60°)	872.9	6.3	B1/1000		
BH (60°-80°)	1410.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	234.1	1.7			G3/500
UL (90°-100°)	514.7	3.7		U4/1000	
UH (100°-180°)	2022.1	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°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	109.7	109.7	112.6	112.6	112.6	109.7	108.3	105.4	105.4	105.4	104.0
5°	142.5	141.1	142.5	146.8	148.2	143.9	141.1	136.8	136.8	135.4	135.4
7.5°	192.3	190.9	188.1	183.8	185.2	189.5	195.2	183.8	180.9	173.8	171.0
10°	240.8	237.9	240.8	233.7	226.5	216.6	222.3	219.4	213.7	206.6	200.9
12.5°	293.5	294.9	300.6	294.9	283.5	267.9	265.0	257.9	252.2	250.8	242.2
15°	347.6	349.1	354.8	353.3	341.9	320.6	312.0	304.9	302.1	293.5	275.0
17.5°	376.1	377.6	379.0	380.4	373.3	356.2	343.4	330.5	326.3	323.4	300.6
20°	390.4	387.5	390.4	396.1	401.8	387.5	374.7	367.6	363.3	353.3	323.4
22.5°	413.2	410.3	408.9	413.2	430.3	420.3	407.5	400.4	396.1	383.3	337.7
25°	437.4	434.6	438.8	436.0	457.4	453.1	440.3	433.1	427.4	411.8	359.0
27.5°	464.5	461.6	465.9	463.1	480.2	483.0	474.5	468.8	460.2	437.4	374.7
30°	487.3	484.4	488.7	487.3	504.4	514.3	510.1	508.6	495.8	468.8	401.8
32.5°	505.8	504.4	514.3	518.6	522.9	545.7	542.8	555.7	541.4	508.6	441.7
35°	548.5	552.8	579.9	608.4	612.7	658.2	663.9	711.0	696.7	654.0	572.8
37.5°	847.7	832.1	805.0	777.9	768.0	856.3	869.1	916.1	880.5	800.7	669.6
40°	903.3	877.7	846.3	824.9	827.8	985.9	958.9	1137.0	1035.8	916.1	817.8
42.5°	857.7	849.2	958.9	1010.2	973.1	1203.9	1158.3	1497.4	1382.0	1088.5	987.4
45°	1075.7	1058.6	1097.1	1148.4	1159.8	1584.4	1553.0	1907.8	1860.8	1360.7	1266.6
47.5°	1231.0	1215.3	1266.6	1440.5	1590.1	2048.8	2219.8	2731.3	2566.0	1933.4	1715.4
50°	1696.9	1694.1	1852.2	2058.8	2321.0	2980.6	3435.1	4009.3	3742.9	2737.0	2352.3
52.5°	2157.1	2162.8	2356.6	2722.7	2994.9	4160.4	4805.8	5207.6	5243.2	3569.1	3049.0
55°	2504.8	2540.4	2774.0	3388.1	3799.9	5210.4	6048.2	6360.2	6716.4	4822.9	3774.2
57.5°	3183.0	3237.1	3459.4	4060.6	4636.2	6518.4	7649.6	7683.8	8215.3	6213.5	4552.2
60°	3775.7	3902.5	3980.8	4526.5	5311.6	7767.9	8839.3	8770.9	9269.6	7366.1	5341.5
62.5°	3959.5	4104.8	4178.9	4760.2	5845.9	8468.9	9395.0	9480.5	9823.8	8175.4	5824.5
65°	4079.1	4250.1	4361.2	4875.6	5851.6	8768.1	9816.7	9907.9	10120.2	8514.5	6065.3
67.5°	4017.9	4235.9	4378.3	4835.7	5543.8	8537.3	9732.7	9557.4	9782.5	8230.9	5796.0
70°	3507.8	3735.8	3879.7	4220.2	4634.8	7178.0	8390.5	8097.0	8295.1	6870.3	4765.9
72.5°	2858.1	2970.7	3059.0	3245.6	3493.6	5294.5	6375.9	6132.2	6250.5	5169.1	3571.9
75°	2348.0	2382.2	2491.9	2598.8	2640.1	3872.5	5050.8	4828.6	4966.8	3935.2	2842.4
77.5°	1705.5	1725.4	1882.1	1899.2	1889.3	2657.2	3980.8	3785.6	3829.8	2925.1	2121.5
80°	990.2	1028.7	1233.9	1223.9	1206.8	1637.1	2802.5	2724.2	2587.4	1986.1	1468.9
82.5°	698.1	736.6	830.6	852.0	840.6	1175.4	1819.4	1768.1	1620.0	1382.0	1015.9
85°	735.2	739.5	743.7	753.7	735.2	1048.6	1393.4	1367.8	1369.2	1142.7	837.8
87.5°	725.2	742.3	749.4	753.7	735.2	995.9	1295.1	1262.4	1278.0	1085.7	813.5
90°	636.9	668.2	671.1	678.2	668.2	889.1	1162.6	1131.3	1151.2	978.8	740.9
92.5°	520.0	537.1	557.1	584.2	572.8	760.8	988.8	966.0	990.2	847.7	651.1
95°	493.0	511.5	524.3	542.8	525.7	693.9	893.3	847.7	867.7	742.3	561.4
97.5°	407.5	423.2	434.6	441.7	428.9	547.1	685.3	654.0	652.5	574.2	448.8
100°	347.6	357.6	367.6	374.7	363.3	453.1	542.8	531.4	534.3	474.5	386.1
102.5°	330.5	336.2	351.9	353.3	340.5	413.2	488.7	484.4	490.1	438.8	361.9
105°	323.4	327.7	340.5	336.2	324.8	386.1	450.2	453.1	453.1	408.9	339.1
107.5°	302.1	309.2	323.4	316.3	310.6	356.2	414.6	404.6	407.5	380.4	322.0
110°	299.2	304.9	319.2	313.5	309.2	347.6	398.9	396.1	400.4	376.1	330.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	371.9	366.2	377.6	366.2	373.3	406.1	460.2	454.5	467.3	458.8	413.2
115°	458.8	461.6	473.0	450.2	457.4	490.1	520.0	530.0	541.4	528.6	481.6
117.5°	424.6	448.8	434.6	431.7	426.0	451.7	447.4	473.0	484.4	474.5	455.9
120°	454.5	484.4	443.1	421.7	413.2	477.3	508.6	507.2	498.7	478.7	440.3
122.5°	679.6	683.9	686.7	750.9	728.1	790.8	809.3	785.1	785.1	810.7	732.3
125°	1060.0	1064.3	1061.5	1090.0	1074.3	1134.1	1158.3	1156.9	1142.7	1129.8	1052.9
127.5°	1071.4	1071.4	1061.5	1045.8	1060.0	1118.5	1119.9	1174.0	1155.5	1121.3	1050.1
130°	748.0	753.7	789.3	800.7	820.7	833.5	819.2	866.3	874.8	869.1	820.7
132.5°	619.8	629.8	668.2	682.5	695.3	696.7	691.0	728.1	736.6	736.6	715.2
135°	535.7	547.1	551.4	544.3	562.8	577.0	588.4	618.4	615.5	609.8	591.3
137.5°	467.3	471.6	458.8	443.1	453.1	494.4	517.2	548.5	547.1	537.1	505.8
140°	394.7	396.1	389.0	381.8	391.8	427.4	448.8	483.0	478.7	471.6	434.6
142.5°	299.2	303.5	322.0	336.2	360.5	434.6	423.2	453.1	474.5	491.5	406.1
145°	314.9	309.2	306.3	322.0	353.3	460.2	427.4	465.9	475.9	487.3	389.0
147.5°	363.3	366.2	361.9	351.9	394.7	428.9	410.3	444.5	450.2	447.4	407.5
150°	285.0	289.2	290.7	286.4	339.1	337.7	319.2	344.8	347.6	347.6	320.6
152.5°	232.2	233.7	230.8	228.0	262.2	256.5	247.9	256.5	255.0	253.6	247.9
155°	220.8	220.8	218.0	219.4	242.2	236.5	230.8	236.5	233.7	229.4	223.7
157.5°	203.7	205.2	205.2	209.4	223.7	213.7	208.0	210.9	208.0	205.2	205.2
160°	192.3	192.3	193.8	199.5	208.0	198.0	193.8	195.2	193.8	190.9	192.3
162.5°	188.1	188.1	189.5	192.3	193.8	188.1	183.8	183.8	183.8	183.8	188.1
165°	185.2	185.2	185.2	186.6	186.6	182.4	180.9	182.4	183.8	185.2	190.9
167.5°	190.9	190.9	190.9	190.9	189.5	186.6	185.2	186.6	188.1	189.5	193.8
170°	199.5	198.0	198.0	196.6	195.2	192.3	190.9	189.5	189.5	190.9	192.3
172.5°	205.2	205.2	203.7	203.7	202.3	199.5	196.6	195.2	195.2	195.2	195.2
175°	212.3	212.3	212.3	212.3	210.9	208.0	206.6	203.7	203.7	203.7	203.7
177.5°	220.8	220.8	220.8	220.8	218.0	215.1	212.3	209.4	209.4	209.4	208.0
180°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	102.6	101.2	96.9	95.5	94.0	91.2	88.3	86.9	85.5	85.5	86.9
5°	136.8	135.4	135.4	131.1	126.8	119.7	116.8	116.8	118.3	119.7	122.5
7.5°	172.4	175.2	178.1	171.0	158.2	141.1	131.1	133.9	141.1	146.8	146.8
10°	199.5	199.5	209.4	200.9	179.5	158.2	143.9	141.1	142.5	143.9	145.3
12.5°	237.9	237.9	232.2	209.4	188.1	166.7	155.3	152.5	152.5	146.8	145.3
15°	266.4	257.9	237.9	216.6	198.0	176.7	163.8	159.6	155.3	151.0	149.6
17.5°	283.5	267.9	240.8	220.8	202.3	185.2	172.4	163.8	159.6	161.0	161.0
20°	303.5	286.4	262.2	240.8	218.0	195.2	179.5	166.7	162.4	163.8	162.4
22.5°	319.2	302.1	277.8	253.6	229.4	205.2	186.6	171.0	165.3	166.7	166.7
25°	337.7	323.4	297.8	269.3	239.4	216.6	198.0	179.5	171.0	169.5	169.5
27.5°	356.2	346.2	319.2	285.0	253.6	226.5	208.0	186.6	176.7	172.4	172.4
30°	380.4	369.0	341.9	300.6	266.4	240.8	220.8	198.0	183.8	176.7	175.2
32.5°	418.9	406.1	373.3	329.1	280.7	255.0	233.7	208.0	189.5	180.9	179.5
35°	544.3	524.3	473.0	421.7	343.4	285.0	249.3	216.6	195.2	183.8	182.4
37.5°	622.6	574.2	505.8	471.6	386.1	349.1	300.6	247.9	203.7	189.5	186.6
40°	749.4	682.5	597.0	530.0	376.1	381.8	351.9	309.2	242.2	199.5	195.2
42.5°	856.3	772.2	642.6	555.7	377.6	398.9	376.1	340.5	290.7	236.5	228.0
45°	1055.8	947.5	746.6	597.0	387.5	424.6	396.1	359.0	314.9	277.8	273.6
47.5°	1426.2	1279.5	933.2	665.4	453.1	493.0	441.7	393.2	353.3	310.6	303.5
50°	1951.9	1776.7	1148.4	719.5	565.6	649.7	557.1	475.9	430.3	398.9	394.7
52.5°	2557.5	2373.7	1306.5	819.2	702.4	843.5	736.6	642.6	582.7	582.7	591.3
55°	3261.3	3077.5	1433.3	957.5	870.5	1057.2	941.8	864.8	836.3	957.5	990.2
57.5°	3959.5	3725.8	1518.8	1098.5	1067.2	1307.9	1169.7	1104.2	1156.9	1516.0	1627.1
60°	4596.3	4210.2	1585.8	1232.4	1235.3	1507.4	1404.8	1400.6	1481.8	1940.5	2081.6
62.5°	4963.9	4438.2	1581.5	1309.4	1333.6	1631.4	1545.9	1568.7	1614.3	2011.8	2118.6
65°	5216.1	4546.5	1548.7	1343.6	1374.9	1675.5	1568.7	1530.2	1500.3	1781.0	1883.6
67.5°	5042.3	4292.9	1474.6	1293.7	1349.3	1611.4	1470.4	1360.7	1302.2	1444.7	1514.5
70°	4223.0	3580.5	1305.1	1164.0	1215.3	1357.8	1222.5	1114.2	1052.9	1129.8	1162.6
72.5°	3198.6	2724.2	1176.9	1088.5	1065.7	1122.7	994.5	873.4	836.3	886.2	893.3
75°	2547.5	2131.5	1082.8	984.5	894.8	950.3	793.6	646.8	625.5	625.5	614.1
77.5°	1910.6	1580.1	923.3	766.5	659.7	750.9	591.3	450.2	421.7	416.0	400.4
80°	1280.9	1075.7	621.2	508.6	474.5	557.1	420.3	330.5	332.0	330.5	312.0
82.5°	894.8	830.6	504.4	443.1	406.1	438.8	380.4	317.7	314.9	317.7	297.8
85°	793.6	760.8	488.7	457.4	418.9	423.2	364.7	300.6	302.1	307.8	290.7
87.5°	762.3	725.2	490.1	441.7	408.9	391.8	330.5	277.8	286.4	292.1	277.8
90°	686.7	649.7	450.2	398.9	364.7	340.5	292.1	263.6	275.0	280.7	267.9
92.5°	595.6	557.1	374.7	351.9	343.4	343.4	306.3	280.7	287.8	290.7	279.3
95°	512.9	475.9	333.4	309.2	302.1	303.5	273.6	252.2	256.5	255.0	246.5
97.5°	414.6	391.8	290.7	275.0	267.9	265.0	245.1	229.4	237.9	243.6	236.5
100°	366.2	354.8	280.7	269.3	259.3	257.9	240.8	230.8	237.9	246.5	240.8
102.5°	341.9	333.4	267.9	252.2	245.1	242.2	230.8	219.4	226.5	235.1	230.8
105°	322.0	309.2	256.5	242.2	232.2	230.8	219.4	205.2	209.4	220.8	218.0
107.5°	304.9	296.4	255.0	239.4	226.5	226.5	213.7	202.3	203.7	208.0	208.0
110°	319.2	309.2	265.0	253.6	236.5	230.8	228.0	219.4	212.3	209.4	209.4



REPORT NUMBER: P856120
 CATALOG NUMBER: FFX-CLB-90-730-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	394.7	376.1	332.0	319.2	290.7	270.7	252.2	235.1	223.7	219.4	216.6
115°	465.9	444.5	391.8	359.0	320.6	290.7	265.0	246.5	229.4	223.7	229.4
117.5°	480.2	423.2	341.9	314.9	292.1	273.6	259.3	245.1	232.2	236.5	232.2
120°	475.9	406.1	344.8	383.3	344.8	302.1	267.9	267.9	263.6	242.2	246.5
122.5°	732.3	683.9	609.8	587.0	478.7	437.4	373.3	319.2	266.4	236.5	222.3
125°	1003.0	956.0	842.0	755.1	646.8	532.9	408.9	314.9	246.5	218.0	222.3
127.5°	1008.7	966.0	857.7	711.0	568.5	455.9	340.5	279.3	240.8	222.3	219.4
130°	786.5	745.2	652.5	540.0	450.2	376.1	306.3	252.2	218.0	203.7	199.5
132.5°	681.0	644.0	558.5	455.9	390.4	332.0	273.6	219.4	196.6	186.6	188.1
135°	572.8	528.6	447.4	391.8	350.5	297.8	245.1	200.9	189.5	186.6	185.2
137.5°	485.8	454.5	397.5	354.8	314.9	267.9	215.1	188.1	183.8	186.6	183.8
140°	413.2	387.5	356.2	319.2	270.7	226.5	192.3	179.5	186.6	188.1	186.6
142.5°	356.2	330.5	297.8	247.9	225.1	205.2	196.6	186.6	186.6	185.2	183.8
145°	297.8	263.6	247.9	255.0	240.8	220.8	205.2	185.2	178.1	178.1	179.5
147.5°	341.9	306.3	286.4	270.7	243.6	215.1	190.9	172.4	169.5	175.2	173.8
150°	294.9	262.2	247.9	226.5	209.4	188.1	172.4	165.3	166.7	173.8	173.8
152.5°	235.1	212.3	203.7	198.0	189.5	176.7	168.1	165.3	168.1	171.0	171.0
155°	220.8	208.0	198.0	193.8	183.8	173.8	166.7	165.3	168.1	171.0	173.8
157.5°	206.6	202.3	189.5	185.2	176.7	172.4	168.1	168.1	169.5	172.4	175.2
160°	196.6	195.2	183.8	182.4	176.7	173.8	173.8	175.2	176.7	176.7	176.7
162.5°	190.9	190.9	186.6	183.8	182.4	180.9	185.2	186.6	185.2	185.2	185.2
165°	192.3	193.8	189.5	186.6	185.2	188.1	195.2	195.2	192.3	190.9	189.5
167.5°	193.8	195.2	192.3	190.9	190.9	193.8	196.6	195.2	193.8	192.3	190.9
170°	192.3	193.8	193.8	195.2	195.2	195.2	198.0	198.0	195.2	193.8	193.8
172.5°	195.2	196.6	198.0	199.5	200.9	199.5	200.9	200.9	200.9	200.9	202.3
175°	203.7	203.7	205.2	205.2	203.7	205.2	205.2	205.2	206.6	209.4	209.4
177.5°	208.0	208.0	206.6	206.6	205.2	206.6	206.6	206.6	206.6	208.0	206.6
180°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9

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: SP1-2406-133-4

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5.

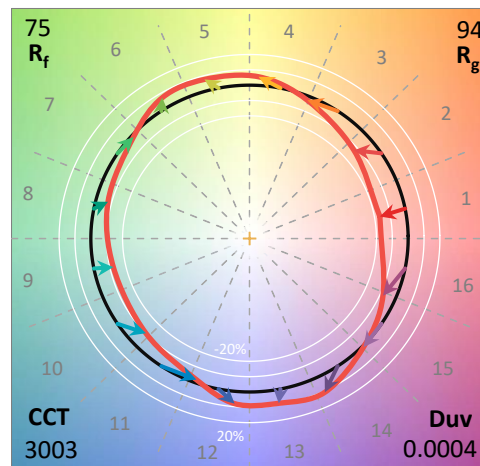
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-4
 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-100-730-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3003
 CIE u': 0.2503
 CIE v': 0.5219
 Duv: 0.0004
 CIE x: 0.4373
 CIE y: 0.4053
 CIE z: 0.1573
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 52.93545
 Rf: 75.2
 Rg: 93.8

CRI (Ra):	71.9		
R1:	68.2	R9:	-33.7
R2:	82.2	R10:	59.0
R3:	93.9	R11:	62.4
R4:	67.6	R12:	48.5
R5:	67.2	R13:	70.8
R6:	75.3	R14:	96.6
R7:	77.6	R15:	60.0
R8:	43.1		



Test Conditions

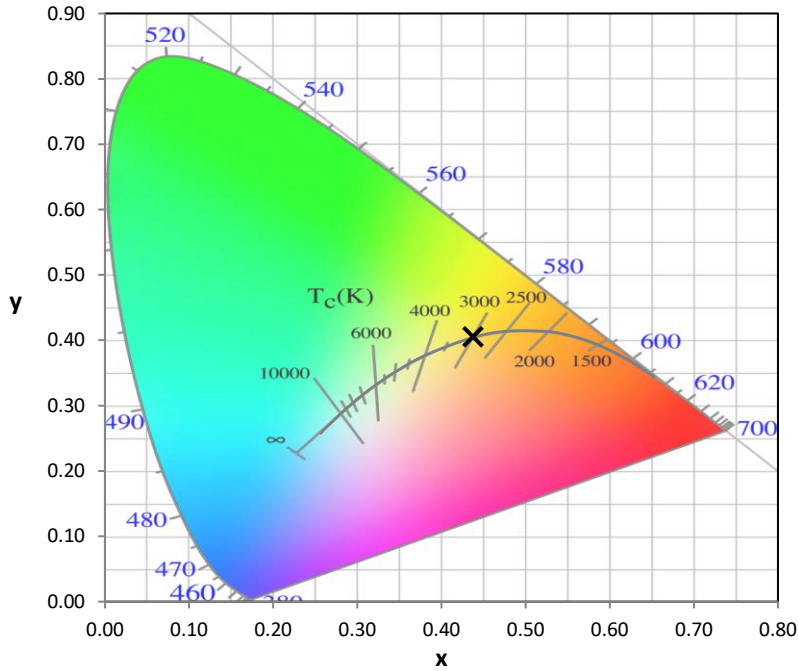
Stabilization Time: 0.794393M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

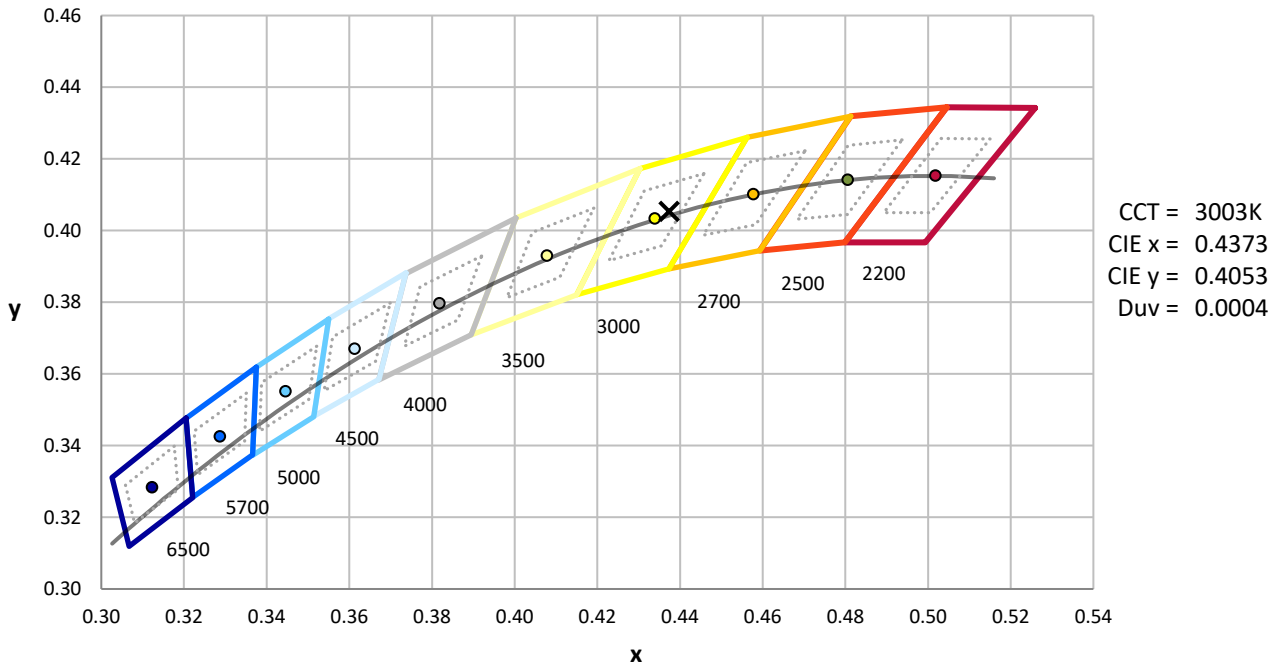
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



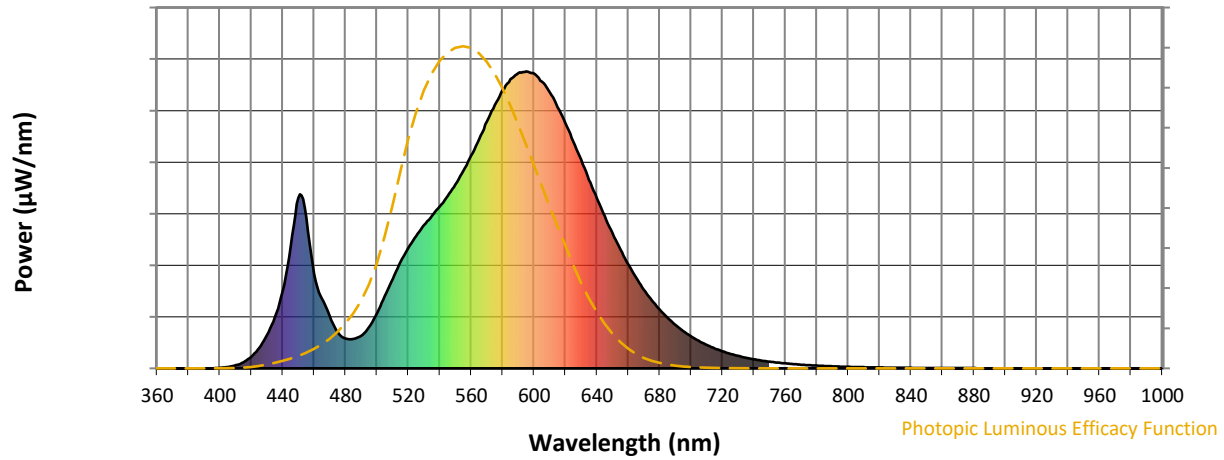
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

Photopic Flux vs. Wavelength

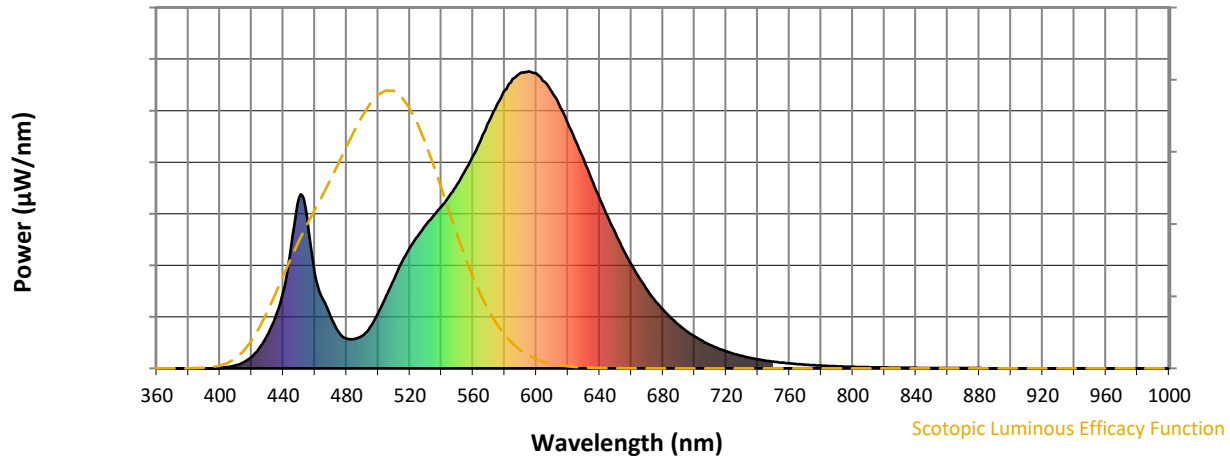


Photopic Lumens: NR

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



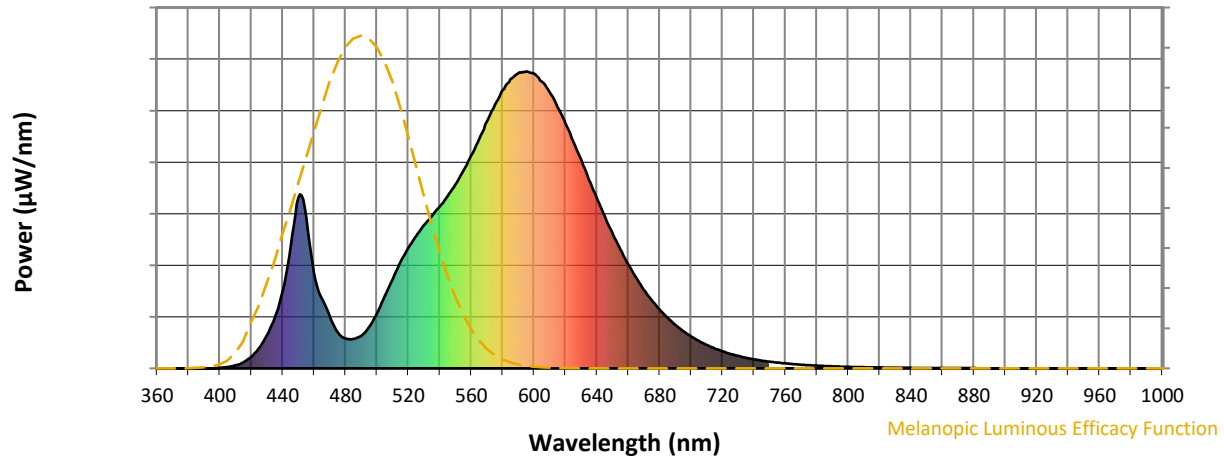
Scotopic Lumens: NR

S/P: 1.21

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	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

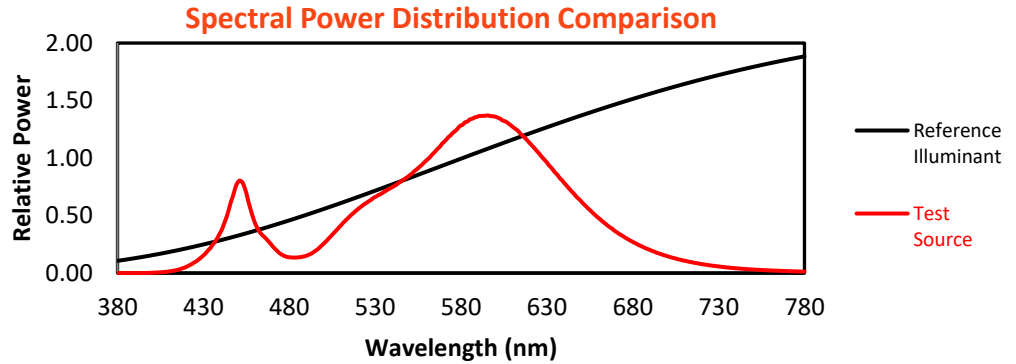
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

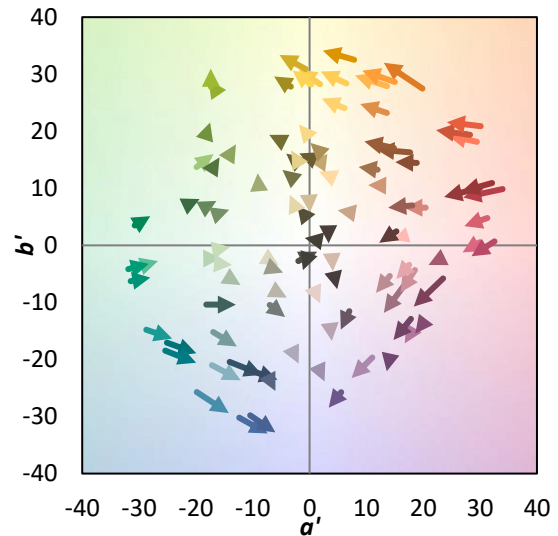
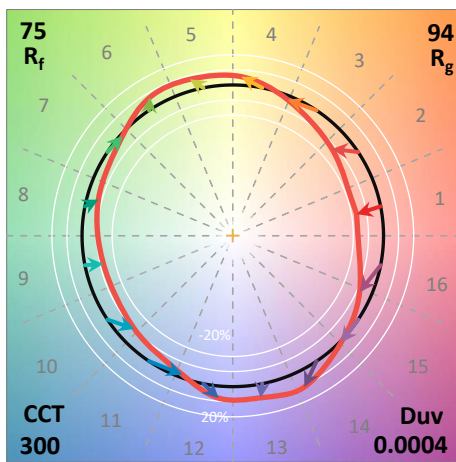
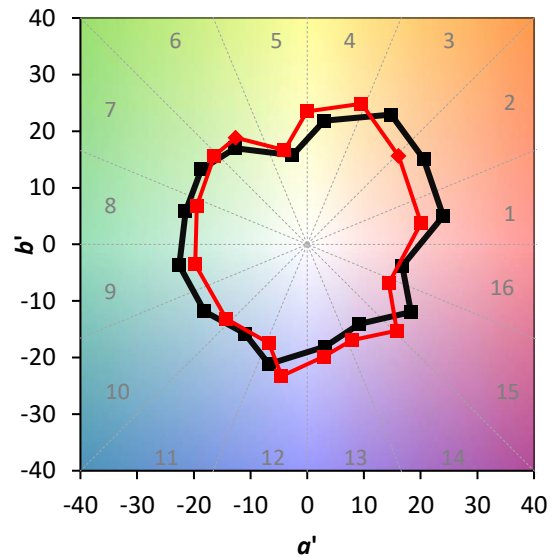
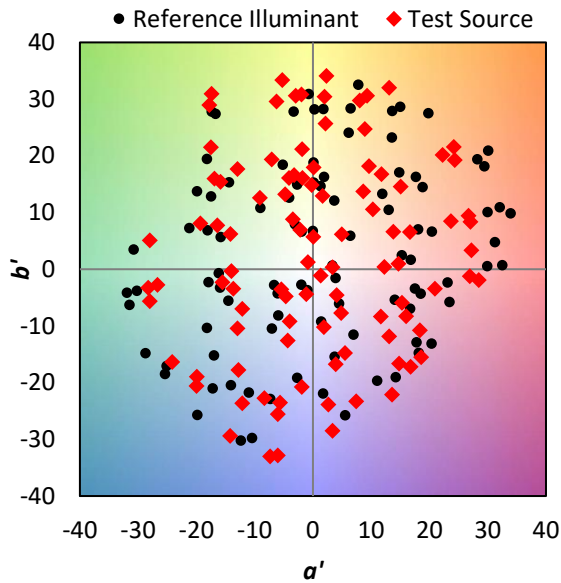
TM-30-18

Summary

$R_f = 75.2$
 $R_g = 93.8$
 CIE $R_a = 71.9$
 $R_9 = -33.7$



Color Vector Graphics

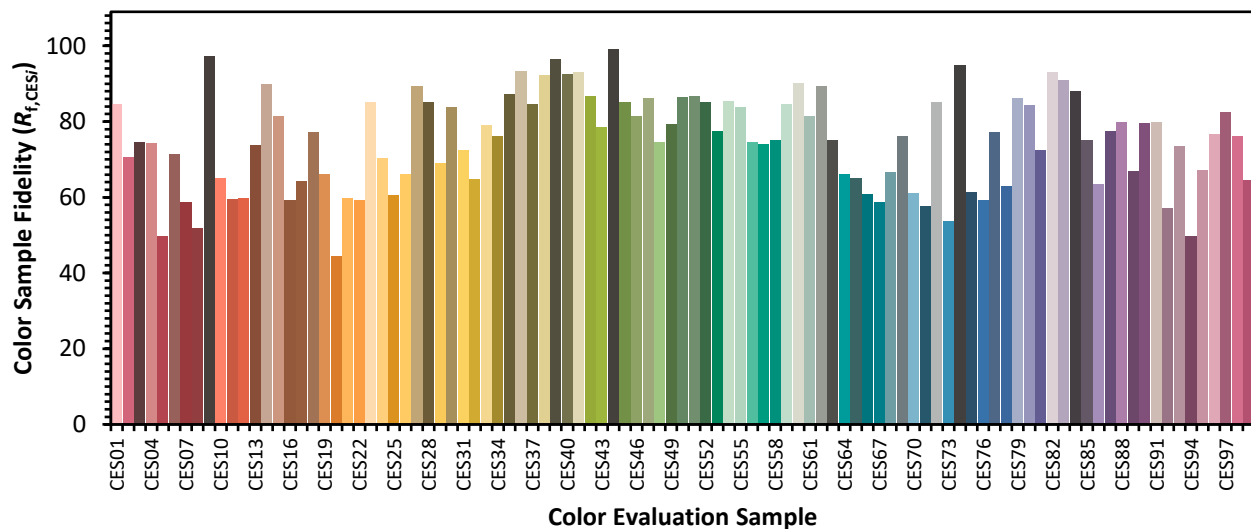


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TM-30-18

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

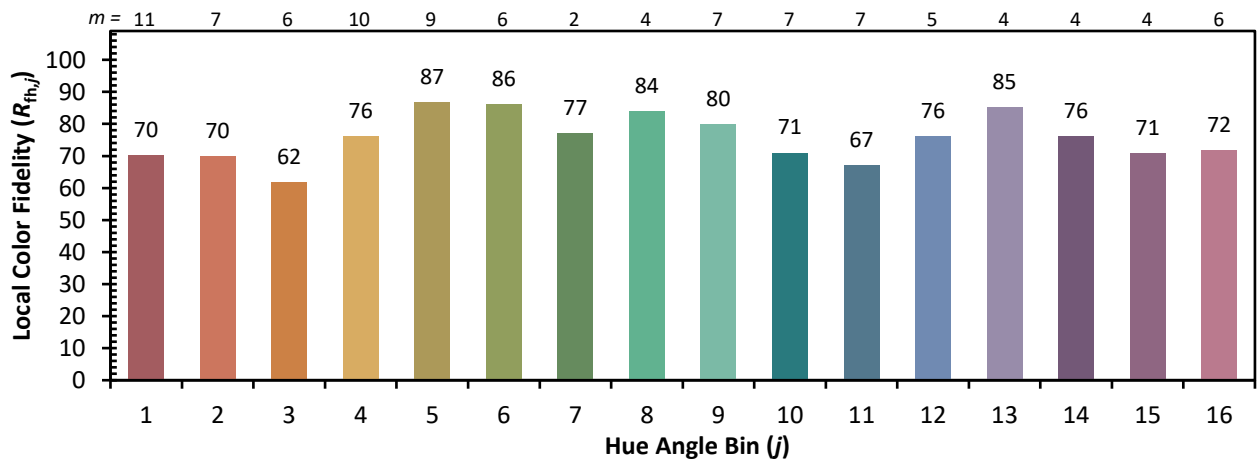
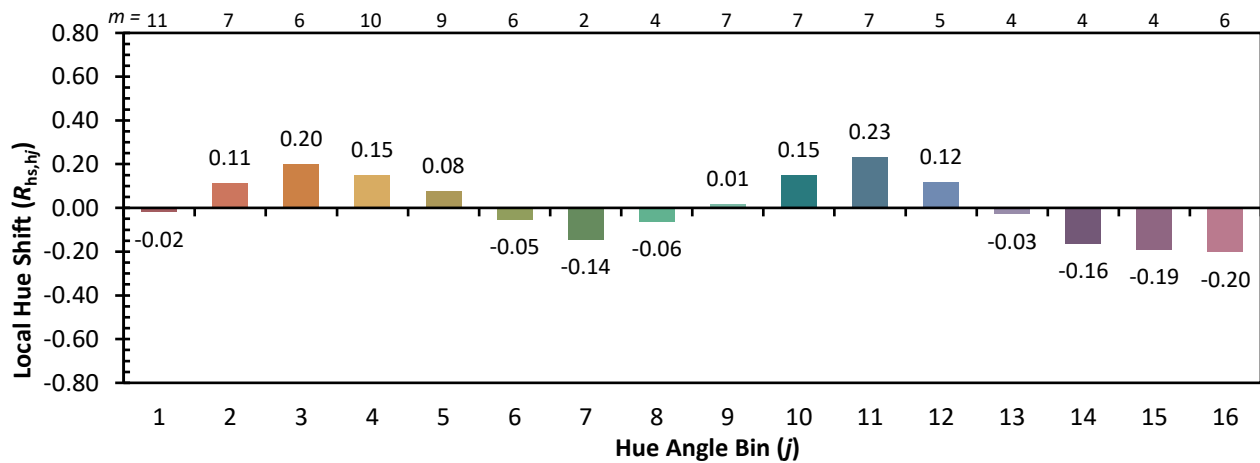
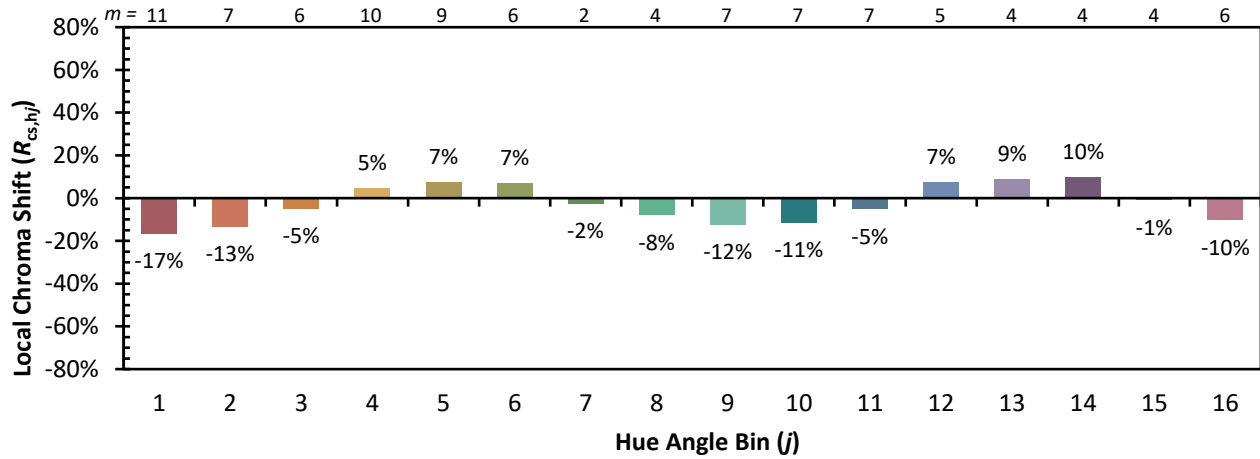
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



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TM-30-18

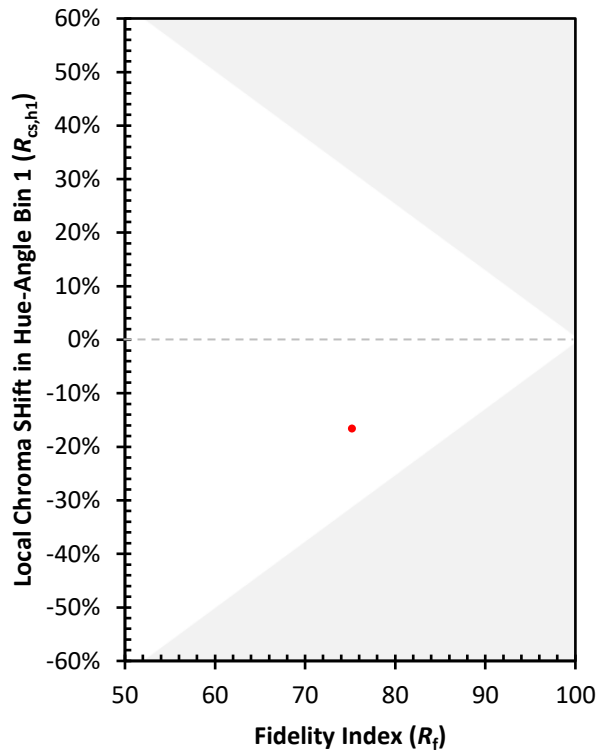
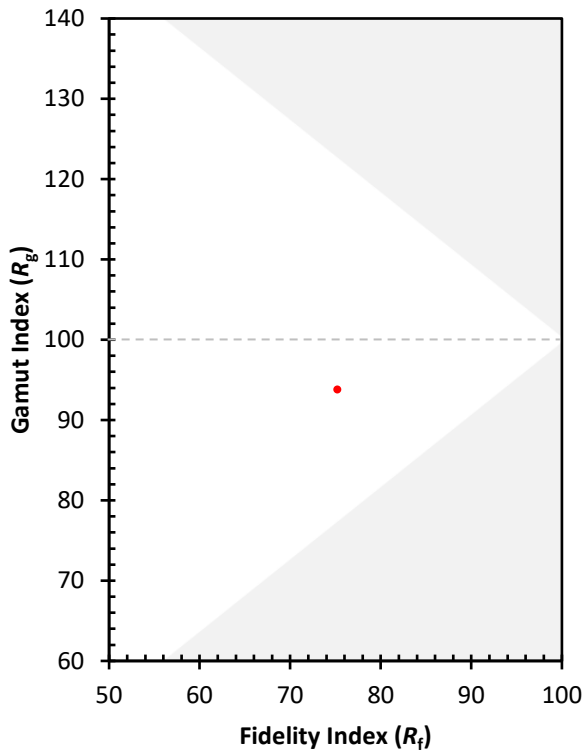
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)