

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: P856193

Luminaire Tested: **FFX-CLB-80-722-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856193
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-722-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

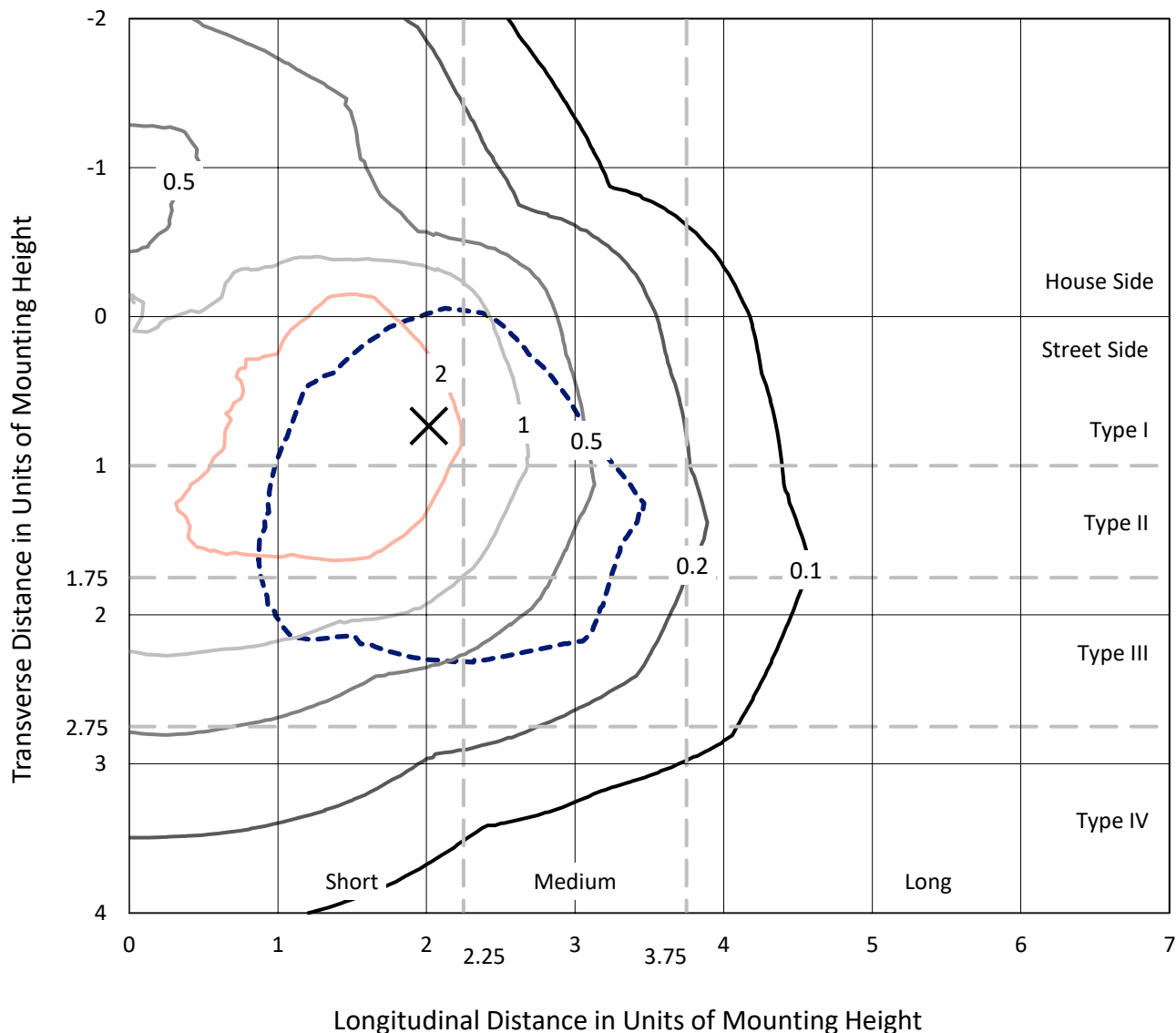
Lumens per Lamp: N/A
Luminaire Lumens: 10661 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U4 - G4

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

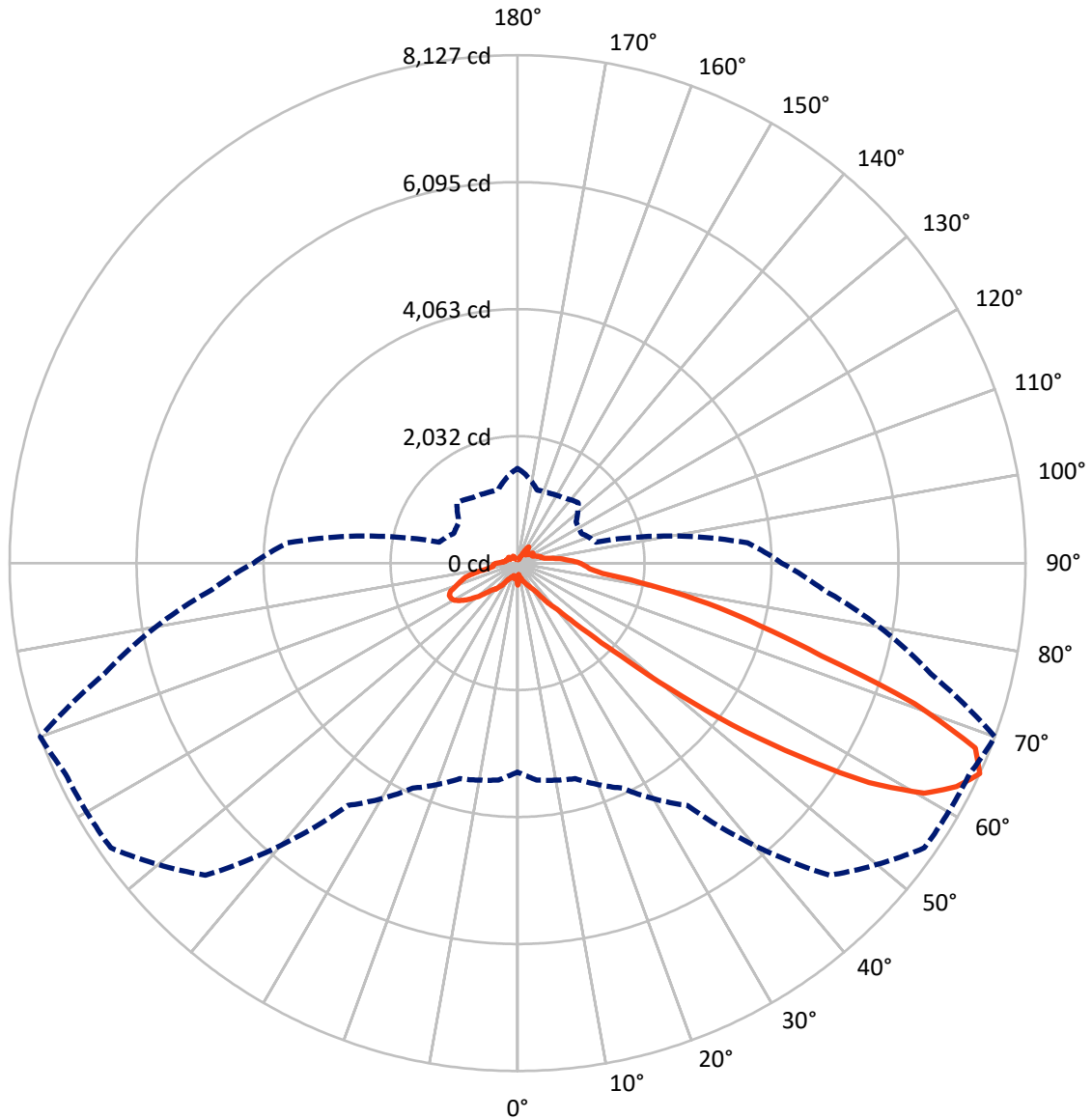
× Max cd
 - - - 1/2 Max cd



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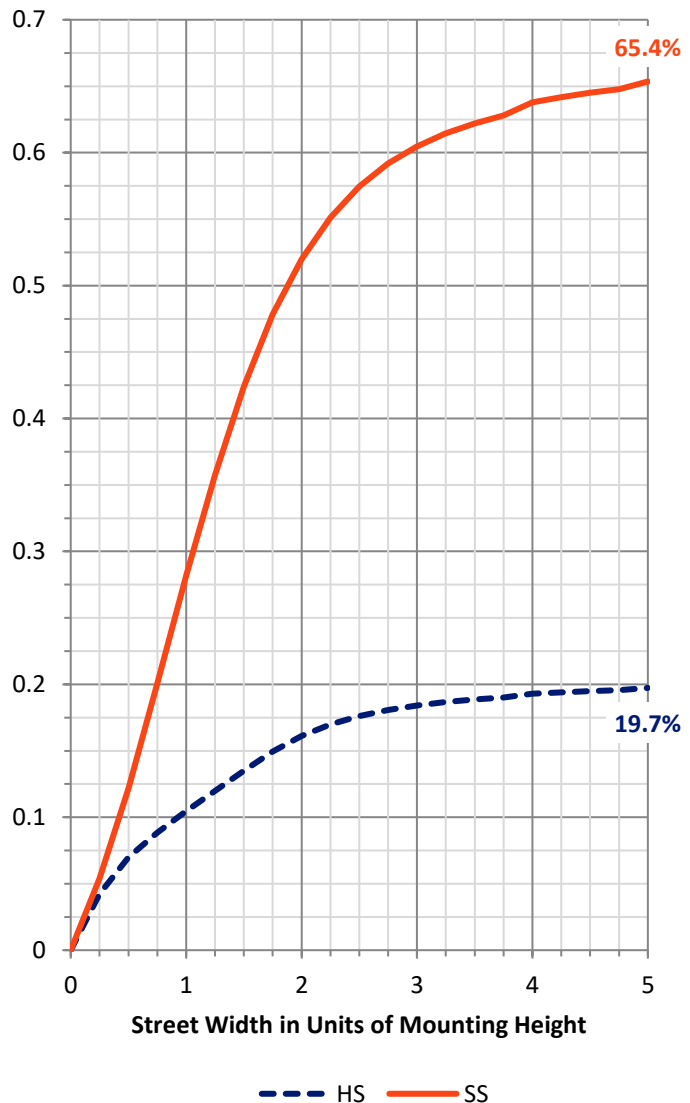
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.6	409.6	2596.2
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	7210.2	854.6	8064.8
	% Fixture	67.6	8.0	75.6
Total	Lumens	9396.8	1264.2	10661.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.2
10°-20°	71.3	0.7
20°-30°	143.9	1.3
30°-40°	304.5	2.9
40°-50°	710.0	6.7
50°-60°	2115.8	19.8
60°-70°	3390.3	31.8
70°-80°	1947.6	18.3
80°-90°	690.7	6.5
90°-100°	407.4	3.8
100°-110°	246.1	2.3
110°-120°	185.0	1.7
120°-130°	156.7	1.5
130°-140°	104.0	1.0
140°-150°	97.7	0.9
150°-160°	43.3	0.4
160°-170°	17.9	0.2
170°-180°	5.9	0.1
0°-90°	9396.8	88.1
0°-180°	10661.0	100.0



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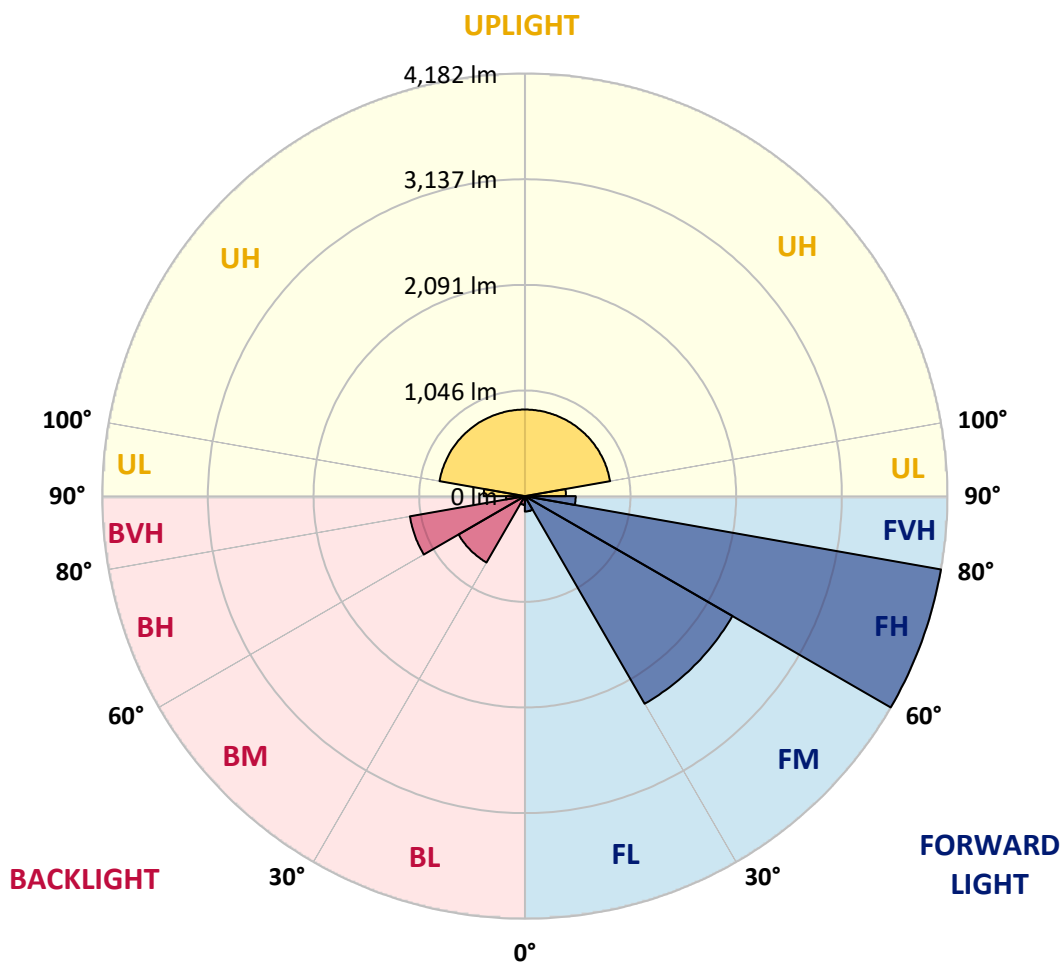
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.8	1.4			
FM (30°-60°)	2372.1	22.3			
FH (60°-80°)	4182.1	39.2			G2/5000
FVH (80°-90°)	503.2	4.7			G4/750
BL (0°-30°)	85.2	0.8	B0/110		
BM (30°-60°)	758.1	7.1	B1/1000		
BH (60°-80°)	1155.7	10.8	B3/2500		G3/2500
BVH (80°-90°)	187.6	1.8			G2/225
UL (90°-100°)	407.4	3.8		U3/500	
UH (100°-180°)	856.8	8.0		U4/1000	

BUG Rating: B3-U4-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6
2.5°	294.9	292.6	298.3	302.8	308.4	300.5	287.0	300.5	305.1	318.6	328.8
5°	250.8	252.0	257.6	270.0	281.3	279.1	244.0	198.9	185.3	179.6	180.8
7.5°	248.6	247.4	244.0	242.9	249.7	274.5	271.2	238.4	213.5	192.1	170.6
10°	262.1	265.5	268.9	268.9	264.4	248.6	247.4	245.2	236.1	226.0	212.4
12.5°	324.3	328.8	332.2	320.9	306.2	290.4	277.9	257.6	248.6	242.9	232.7
15°	392.1	396.6	390.9	369.5	343.5	314.1	302.8	303.9	291.5	276.8	255.3
17.5°	428.2	425.9	402.2	377.4	357.0	334.4	318.6	308.4	303.9	298.3	276.8
20°	405.6	400.0	385.3	375.1	372.8	360.4	350.2	341.2	335.6	323.1	297.1
22.5°	388.7	388.7	386.4	384.1	397.7	392.1	387.5	375.1	367.2	351.4	313.0
25°	410.1	410.1	411.3	407.9	425.9	425.9	425.9	412.4	402.2	379.6	333.3
27.5°	440.6	439.5	442.9	440.6	456.5	459.8	466.6	456.5	441.8	414.6	355.9
30°	473.4	473.4	476.8	479.0	494.9	502.8	510.7	506.2	488.1	455.3	394.3
32.5°	508.4	507.3	517.5	528.8	537.8	552.5	555.9	567.2	549.1	510.7	450.8
35°	559.3	562.7	589.8	613.5	639.5	648.5	664.3	708.4	690.3	638.4	569.4
37.5°	809.0	792.0	785.2	758.1	754.7	807.8	827.0	868.8	832.7	762.6	657.6
40°	857.5	837.2	828.2	802.2	811.2	920.8	901.6	1051.9	963.7	851.9	784.1
42.5°	807.8	804.4	910.6	931.0	919.7	1093.7	1056.4	1334.3	1240.6	980.7	905.0
45°	975.0	966.0	1011.2	1047.4	1075.6	1388.6	1366.0	1658.6	1617.9	1194.2	1119.7
47.5°	1100.5	1091.4	1143.4	1264.3	1429.2	1768.2	1900.4	2342.1	2204.3	1642.8	1473.3
50°	1475.6	1469.9	1610.0	1739.9	2012.2	2512.7	2875.4	3352.2	3150.0	2294.7	1982.9
52.5°	1830.3	1848.4	2012.2	2261.9	2550.0	3453.9	3971.4	4305.8	4303.5	2988.4	2545.5
55°	2084.5	2145.6	2338.8	2789.6	3189.5	4288.8	4987.1	5234.5	5442.4	3987.2	3100.3
57.5°	2578.3	2684.5	2869.8	3316.1	3832.4	5298.9	6295.4	6254.8	6628.7	5023.2	3703.6
60°	3085.6	3209.9	3272.0	3682.1	4360.0	6271.7	7194.8	7099.9	7476.1	5924.8	4338.6
62.5°	3243.7	3365.8	3426.8	3873.1	4740.8	6823.1	7609.4	7646.7	7880.6	6567.7	4714.8
65°	3343.2	3483.3	3571.4	3973.6	4732.9	7063.7	7945.0	7980.0	8126.9	6844.5	4909.1
67.5°	3325.1	3482.1	3595.1	3955.5	4470.7	6863.7	7861.4	7703.2	7899.8	6646.8	4704.6
70°	2965.8	3102.5	3215.5	3493.4	3731.8	5782.5	6801.6	6540.6	6744.0	5553.1	3884.4
72.5°	2423.5	2480.0	2578.3	2709.3	2828.0	4290.0	5188.2	4964.5	5082.0	4165.7	2910.4
75°	1990.8	1979.5	2067.6	2162.5	2125.2	3134.2	4104.7	3900.2	4009.8	3163.5	2321.8
77.5°	1475.6	1469.9	1597.6	1589.7	1533.2	2170.4	3253.9	3105.9	3120.6	2336.5	1738.8
80°	886.9	903.9	1028.1	1053.0	986.3	1361.4	2322.9	2252.9	2147.8	1596.5	1219.1
82.5°	622.5	648.5	714.1	741.2	708.4	994.3	1538.8	1490.2	1366.0	1158.1	858.7
85°	635.0	639.5	647.4	649.7	635.0	892.6	1194.2	1167.1	1159.2	970.5	708.4
87.5°	635.0	645.1	651.9	650.8	624.8	836.1	1101.6	1058.7	1068.8	907.3	684.7
90°	569.4	587.5	586.4	589.8	568.3	755.9	998.8	963.7	977.3	818.0	622.5
92.5°	465.5	477.9	490.3	514.1	482.4	642.9	844.0	811.2	828.2	696.0	529.9
95°	432.7	444.0	451.9	464.4	432.7	571.7	746.8	707.3	714.1	590.9	448.5
97.5°	350.2	357.0	366.1	368.3	345.7	439.5	568.3	534.4	538.9	458.7	352.5
100°	293.8	299.4	307.3	307.3	292.6	363.8	449.7	431.6	429.3	375.1	298.3
102.5°	277.9	280.2	292.6	290.4	275.7	335.6	406.7	395.4	396.6	348.0	280.2
105°	273.4	273.4	285.8	280.2	267.8	319.7	380.8	377.4	376.2	331.0	268.9
107.5°	268.9	268.9	281.3	275.7	265.5	301.7	358.2	346.9	345.7	315.2	254.2
110°	250.8	254.2	267.8	261.0	253.1	284.7	328.8	320.9	320.9	297.1	242.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	222.6	224.8	237.3	231.6	226.0	253.1	291.5	281.3	282.5	266.6	227.1
115°	207.9	211.3	223.7	215.8	211.3	236.1	270.0	263.3	265.5	250.8	214.7
117.5°	209.0	210.1	219.2	220.3	211.3	231.6	249.7	252.0	255.3	246.3	218.1
120°	254.2	248.6	253.1	247.4	242.9	266.6	288.1	290.4	289.2	272.3	216.9
122.5°	256.5	245.2	257.6	249.7	245.2	271.2	294.9	300.5	294.9	280.2	221.4
125°	204.5	207.9	209.0	211.3	215.8	244.0	256.5	257.6	258.7	254.2	214.7
127.5°	179.6	178.5	172.9	174.0	184.2	209.0	218.1	224.8	220.3	218.1	193.2
130°	171.7	174.0	172.9	172.9	178.5	197.7	204.5	214.7	211.3	206.8	176.3
132.5°	158.2	160.4	170.6	183.0	180.8	187.6	189.8	200.0	201.1	201.1	177.4
135°	150.3	152.5	160.4	176.3	171.7	175.1	174.0	183.0	184.2	185.3	167.2
137.5°	153.7	154.8	150.3	152.5	155.9	170.6	175.1	184.2	184.2	179.6	155.9
140°	161.6	161.6	151.4	148.0	154.8	177.4	186.4	201.1	198.9	190.9	161.6
142.5°	149.1	151.4	157.0	163.8	178.5	240.7	240.7	268.9	277.9	280.2	195.5
145°	194.3	195.5	197.7	201.1	229.4	315.2	287.0	307.3	315.2	323.1	235.0
147.5°	223.7	226.0	223.7	214.7	240.7	270.0	256.5	265.5	274.5	276.8	236.1
150°	175.1	172.9	171.7	170.6	198.9	207.9	196.6	195.5	202.2	207.9	183.0
152.5°	127.7	126.5	125.4	124.3	149.1	143.5	135.6	135.6	137.8	139.0	128.8
155°	113.0	111.9	109.6	110.7	126.5	120.9	114.1	111.9	114.1	113.0	107.3
157.5°	92.6	90.4	90.4	94.9	102.8	96.0	91.5	88.1	89.3	88.1	89.3
160°	76.8	75.7	76.8	82.5	87.0	81.3	76.8	74.6	74.6	76.8	81.3
162.5°	68.9	67.8	68.9	71.2	73.4	67.8	64.4	64.4	65.5	70.0	79.1
165°	59.9	59.9	61.0	62.1	63.3	59.9	58.8	58.8	61.0	67.8	78.0
167.5°	57.6	57.6	57.6	57.6	57.6	56.5	55.4	58.8	61.0	64.4	71.2
170°	56.5	55.4	56.5	56.5	56.5	56.5	56.5	59.9	59.9	61.0	64.4
172.5°	57.6	57.6	57.6	58.8	61.0	62.1	61.0	63.3	62.1	62.1	62.1
175°	58.8	58.8	59.9	61.0	62.1	63.3	64.4	64.4	64.4	65.5	65.5
177.5°	58.8	58.8	59.9	61.0	62.1	59.9	57.6	56.5	55.4	55.4	55.4
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6
2.5°	319.7	291.5	252.0	268.9	320.9	310.7	258.7	227.1	229.4	252.0	254.2
5°	186.4	192.1	218.1	272.3	282.5	233.9	188.7	181.9	219.2	271.2	281.3
7.5°	168.3	168.3	189.8	264.4	297.1	244.0	184.2	166.1	194.3	237.3	244.0
10°	203.4	196.6	198.9	226.0	238.4	195.5	165.0	157.0	172.9	178.5	176.3
12.5°	229.4	233.9	255.3	249.7	195.5	159.3	149.1	148.0	157.0	162.7	161.6
15°	246.3	238.4	222.6	204.5	186.4	166.1	151.4	142.4	132.2	127.7	127.7
17.5°	262.1	246.3	218.1	201.1	183.0	168.3	154.8	141.2	136.7	137.8	137.8
20°	281.3	262.1	236.1	216.9	195.5	175.1	158.2	143.5	140.1	141.2	140.1
22.5°	296.0	279.1	252.0	227.1	204.5	181.9	165.0	150.3	145.7	144.6	144.6
25°	314.1	299.4	271.2	240.7	213.5	192.1	177.4	160.4	152.5	150.3	150.3
27.5°	337.8	325.4	293.8	261.0	229.4	204.5	188.7	170.6	159.3	154.8	153.7
30°	374.0	357.0	322.0	281.3	248.6	222.6	203.4	180.8	167.2	159.3	158.2
32.5°	428.2	406.7	360.4	309.6	270.0	242.9	219.2	190.9	174.0	165.0	163.8
35°	543.4	519.7	461.0	389.8	332.2	276.8	239.5	202.2	180.8	169.5	168.3
37.5°	615.8	572.8	501.6	437.2	367.2	334.4	287.0	237.3	189.8	175.1	172.9
40°	720.8	665.5	576.2	489.2	366.1	364.9	333.3	289.2	223.7	185.3	181.9
42.5°	798.8	727.6	615.8	518.6	369.5	379.6	352.5	314.1	265.5	215.8	210.1
45°	958.1	867.7	690.3	544.6	374.0	396.6	369.5	328.8	285.8	250.8	247.4
47.5°	1256.4	1131.0	834.9	594.3	424.8	453.1	404.5	357.0	315.2	280.2	272.3
50°	1673.3	1523.0	1010.1	638.4	511.8	576.2	497.1	424.8	375.1	348.0	340.1
52.5°	2162.5	1994.2	1119.7	707.3	616.9	727.6	640.6	555.9	490.3	494.9	490.3
55°	2708.2	2509.4	1215.7	811.2	751.3	896.0	801.1	727.6	692.6	790.9	796.5
57.5°	3234.7	3022.3	1275.6	920.8	901.6	1090.3	979.6	927.6	941.2	1229.3	1297.0
60°	3737.5	3401.9	1321.9	1023.6	1028.1	1242.8	1158.1	1147.9	1189.7	1559.2	1662.0
62.5°	4027.9	3596.3	1319.6	1090.3	1107.2	1336.6	1262.0	1267.7	1299.3	1613.4	1699.3
65°	4225.6	3694.6	1297.0	1124.2	1141.1	1370.5	1274.5	1230.4	1210.1	1424.7	1516.2
67.5°	4106.9	3504.7	1242.8	1094.8	1117.4	1316.3	1196.5	1085.8	1050.7	1167.1	1221.3
70°	3472.0	2928.5	1107.2	995.4	1010.1	1110.6	1008.9	888.0	853.0	914.0	938.9
72.5°	2623.5	2248.4	993.1	919.7	884.7	918.6	819.1	692.6	684.7	717.4	722.0
75°	2095.8	1764.8	905.0	829.3	735.5	770.5	650.8	515.2	505.0	507.3	496.0
77.5°	1579.5	1312.9	761.5	653.0	557.0	614.6	483.6	355.9	338.9	332.2	319.7
80°	1081.2	911.8	517.5	437.2	395.4	450.8	344.6	261.0	259.9	257.6	244.0
82.5°	767.2	703.9	422.6	371.7	335.6	354.8	299.4	244.0	238.4	239.5	224.8
85°	671.1	637.2	407.9	376.2	341.2	340.1	285.8	228.2	226.0	227.1	213.5
87.5°	641.7	604.5	398.8	359.3	325.4	308.4	252.0	201.1	206.8	210.1	197.7
90°	575.1	536.7	361.5	320.9	288.1	258.7	213.5	181.9	190.9	193.2	181.9
92.5°	484.7	445.2	281.3	257.6	241.8	237.3	200.0	172.9	179.6	180.8	171.7
95°	410.1	374.0	245.2	227.1	215.8	214.7	180.8	157.0	160.4	159.3	151.4
97.5°	329.9	303.9	214.7	197.7	185.3	178.5	154.8	136.7	141.2	143.5	137.8
100°	281.3	266.6	200.0	185.3	170.6	161.6	141.2	126.5	131.1	135.6	131.1
102.5°	264.4	253.1	196.6	180.8	165.0	153.7	134.5	118.6	120.9	126.5	123.2
105°	250.8	240.7	190.9	174.0	159.3	146.9	131.1	111.9	110.7	116.4	115.2
107.5°	236.1	227.1	187.6	167.2	151.4	140.1	125.4	107.3	102.8	106.2	105.1
110°	228.2	219.2	180.8	159.3	142.4	132.2	118.6	103.9	98.3	99.4	99.4



REPORT NUMBER: P856193
 CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	212.4	202.2	166.1	145.7	132.2	123.2	109.6	99.4	92.6	94.9	96.0
115°	202.2	188.7	152.5	137.8	123.2	115.2	107.3	98.3	90.4	90.4	91.5
117.5°	209.0	183.0	142.4	131.1	123.2	120.9	118.6	105.1	89.3	88.1	88.1
120°	200.0	184.2	154.8	151.4	143.5	136.7	122.0	103.9	87.0	84.7	84.7
122.5°	195.5	192.1	175.1	163.8	149.1	135.6	114.1	94.9	83.6	81.3	81.3
125°	193.2	189.8	169.5	148.0	128.8	115.2	101.7	89.3	82.5	79.1	79.1
127.5°	177.4	161.6	136.7	124.3	111.9	106.2	94.9	87.0	79.1	74.6	74.6
130°	163.8	149.1	127.7	114.1	103.9	99.4	91.5	83.6	75.7	71.2	70.0
132.5°	161.6	146.9	124.3	107.3	98.3	93.8	89.3	80.2	71.2	66.7	65.5
135°	150.3	133.3	110.7	101.7	96.0	92.6	89.3	78.0	68.9	64.4	64.4
137.5°	139.0	122.0	105.1	100.6	96.0	92.6	82.5	71.2	64.4	61.0	61.0
140°	140.1	120.9	107.3	103.9	97.2	87.0	78.0	70.0	64.4	59.9	58.8
142.5°	149.1	125.4	108.5	98.3	93.8	88.1	84.7	75.7	64.4	56.5	54.2
145°	163.8	135.6	122.0	117.5	109.6	99.4	87.0	70.0	58.8	52.0	50.8
147.5°	180.8	152.5	136.7	124.3	108.5	91.5	74.6	61.0	52.0	49.7	48.6
150°	157.0	129.9	117.5	100.6	87.0	73.4	61.0	54.2	49.7	48.6	48.6
152.5°	118.6	97.2	87.0	79.1	71.2	64.4	57.6	53.1	49.7	47.5	47.5
155°	102.8	91.5	81.3	73.4	65.5	58.8	53.1	50.8	47.5	47.5	46.3
157.5°	90.4	84.7	71.2	64.4	58.8	55.4	53.1	49.7	48.6	47.5	47.5
160°	82.5	79.1	65.5	59.9	56.5	54.2	54.2	52.0	48.6	47.5	47.5
162.5°	80.2	76.8	63.3	57.6	54.2	55.4	57.6	56.5	52.0	49.7	49.7
165°	79.1	76.8	64.4	56.5	54.2	55.4	61.0	62.1	56.5	53.1	52.0
167.5°	72.3	71.2	67.8	62.1	58.8	58.8	62.1	63.3	61.0	61.0	59.9
170°	65.5	65.5	66.7	67.8	65.5	62.1	59.9	59.9	63.3	66.7	67.8
172.5°	63.3	64.4	66.7	70.0	70.0	65.5	62.1	61.0	64.4	68.9	70.0
175°	66.7	67.8	68.9	68.9	66.7	65.5	64.4	63.3	65.5	70.0	71.2
177.5°	55.4	55.4	56.5	56.5	55.4	56.5	55.4	53.1	53.1	53.1	53.1
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

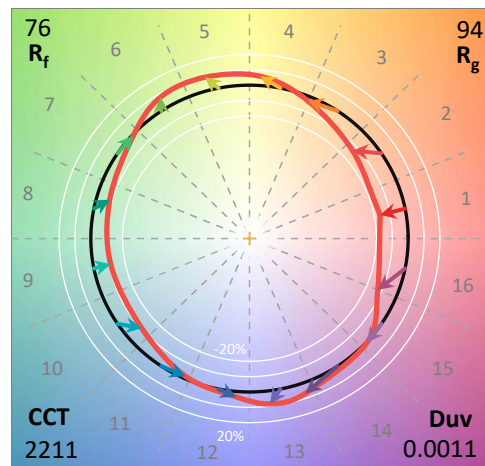
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

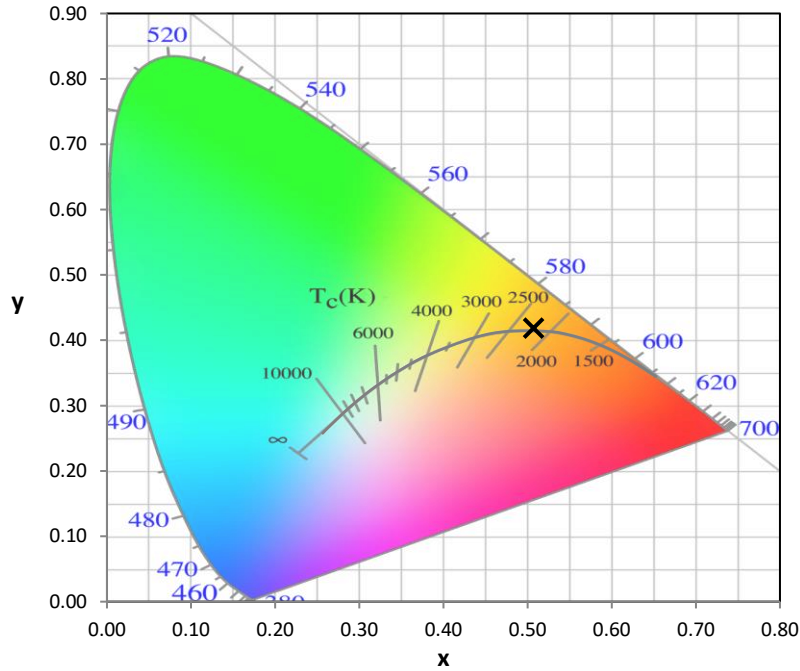
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

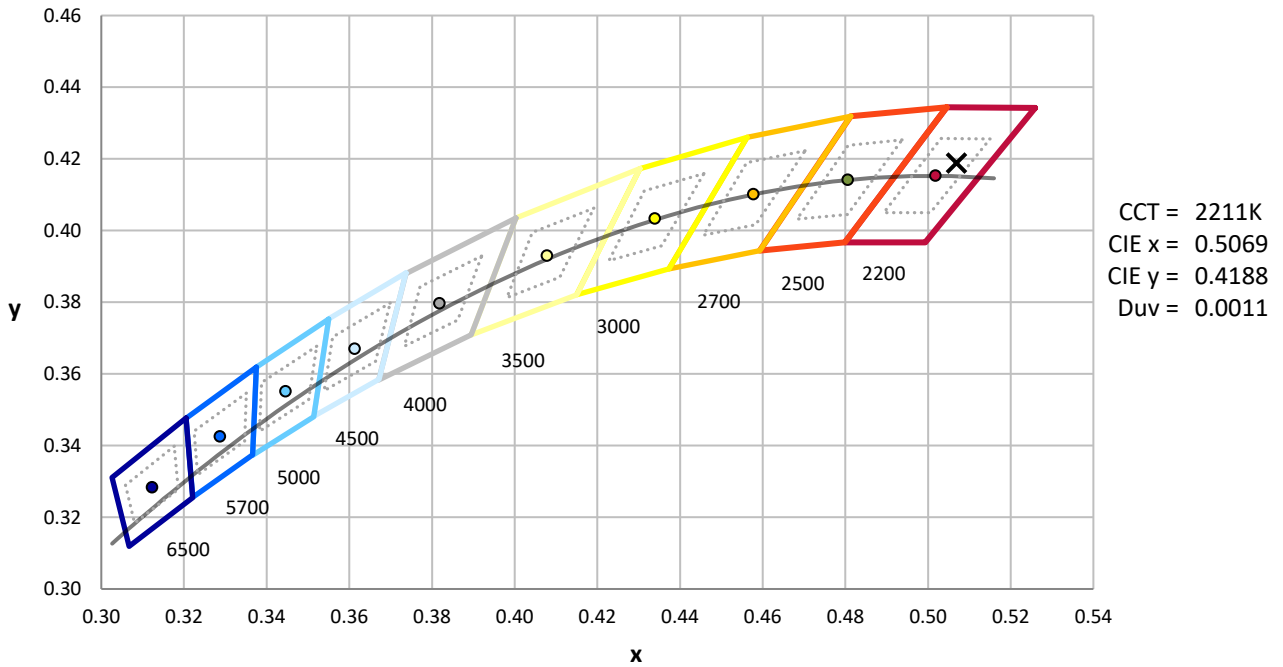
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



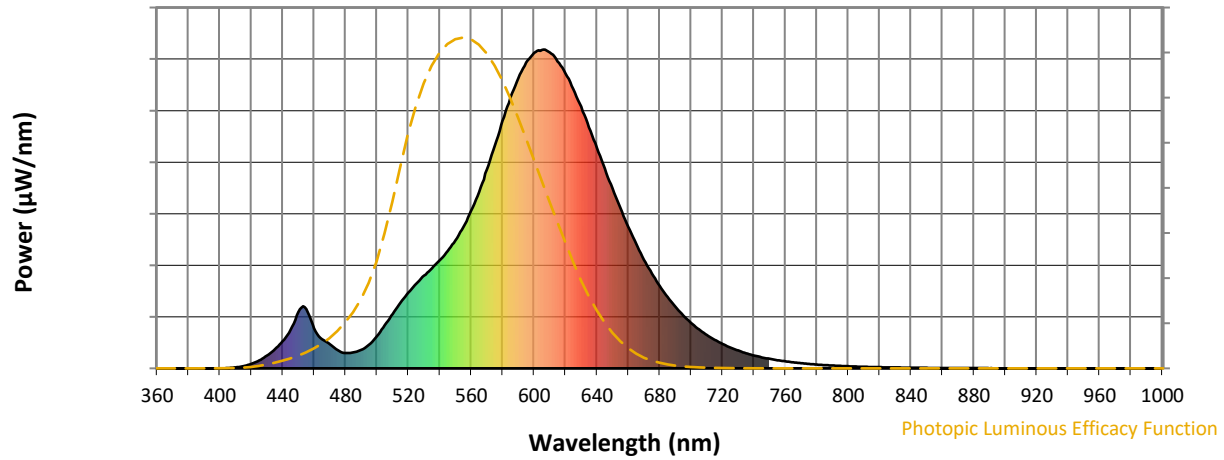
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

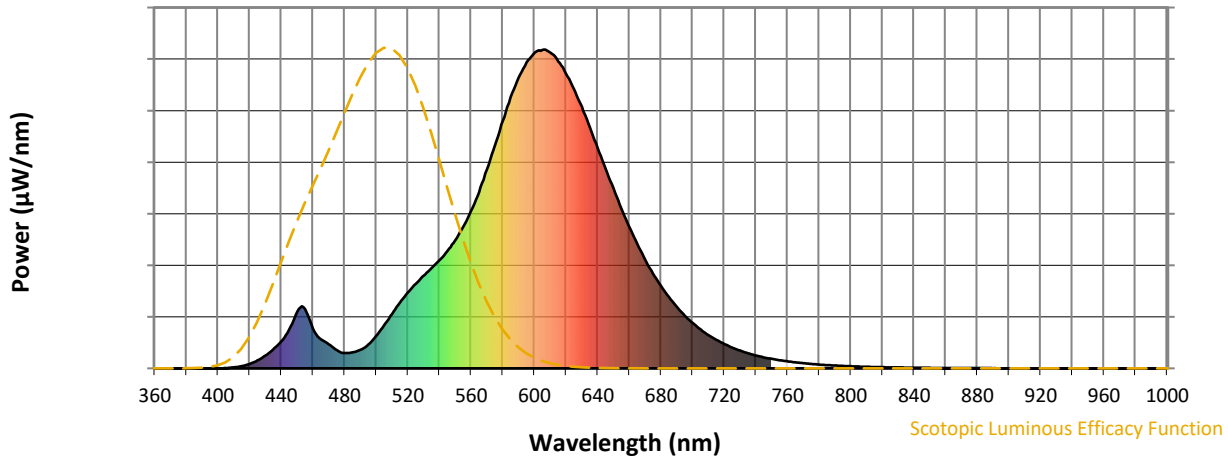


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



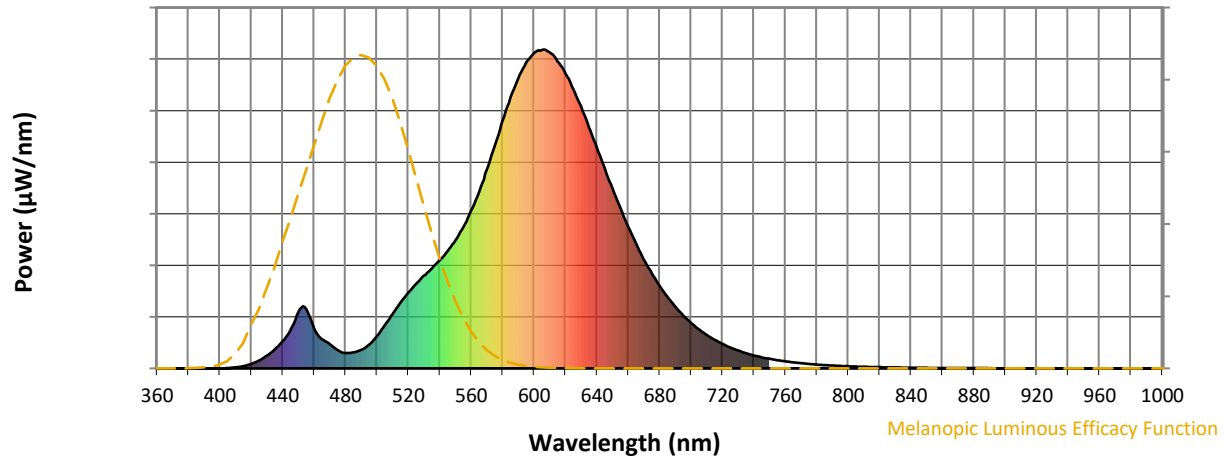
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

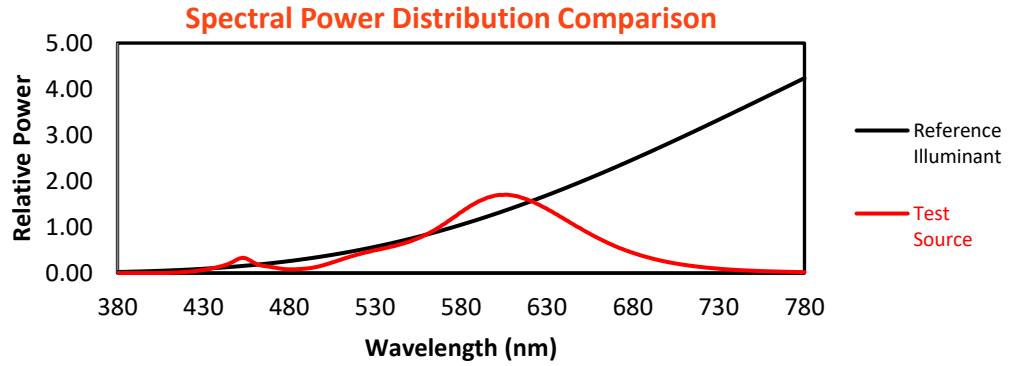
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

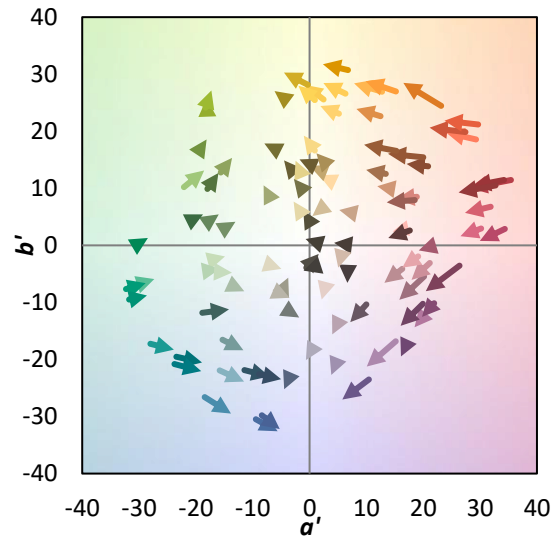
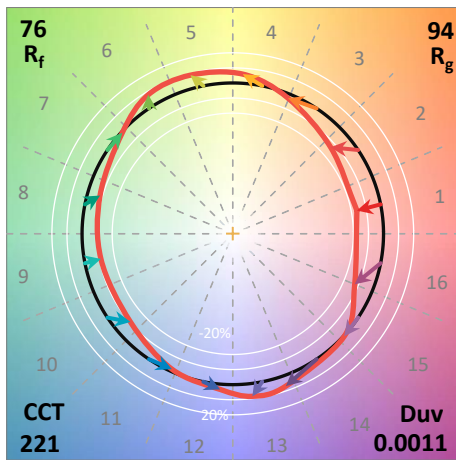
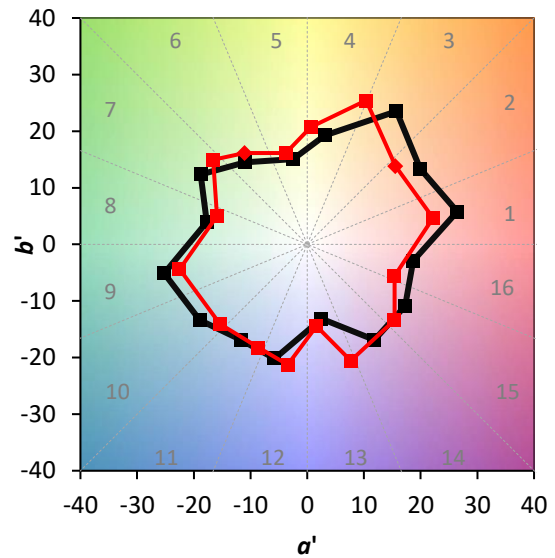
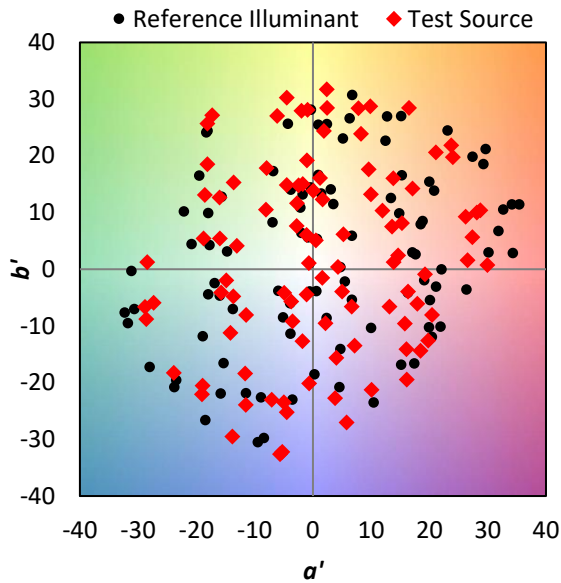
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

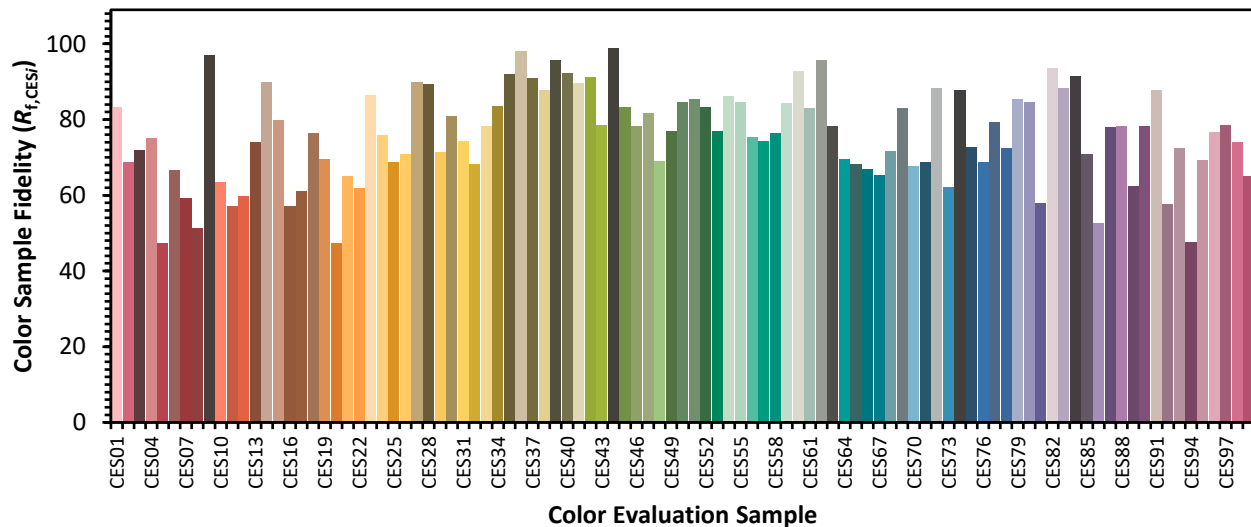


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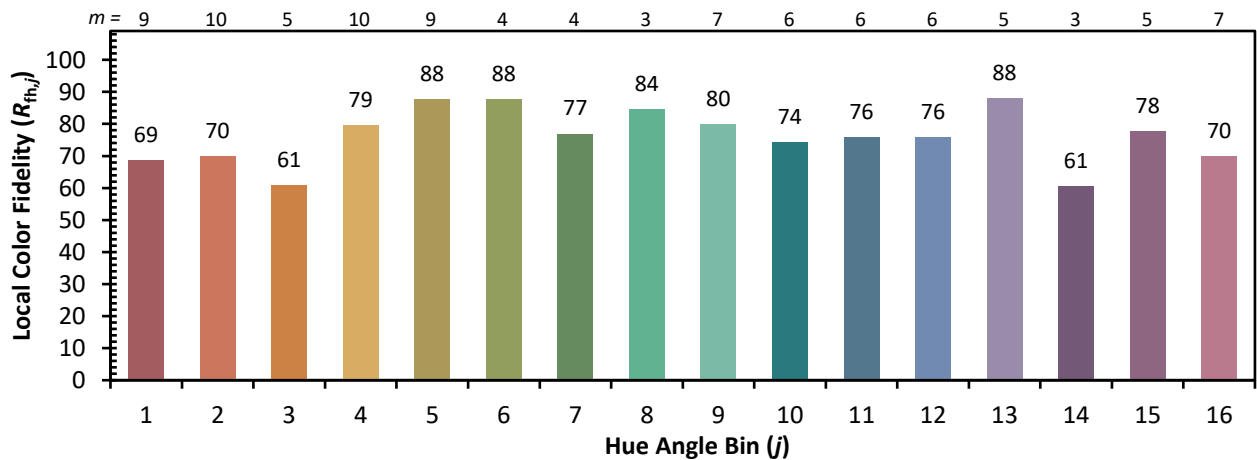
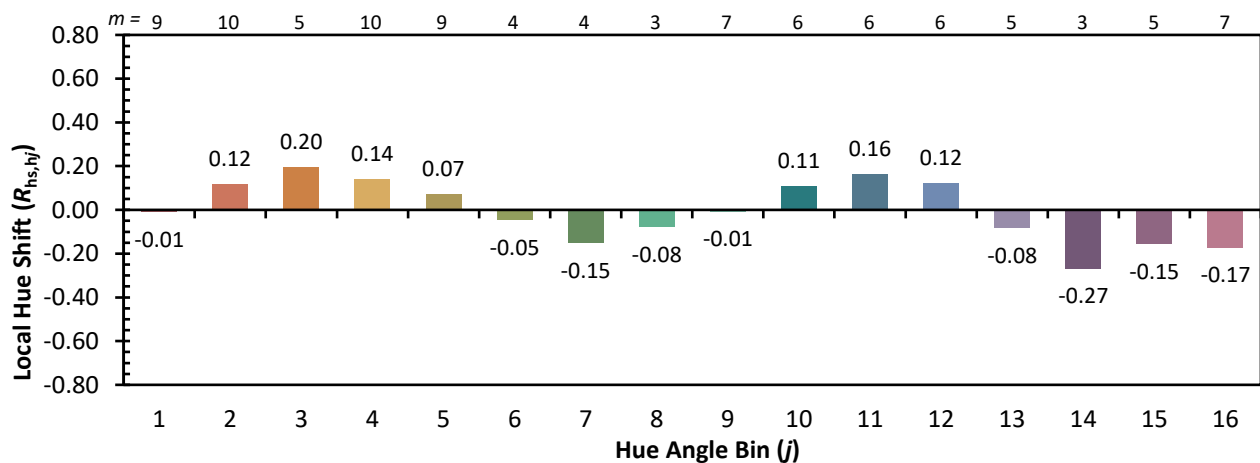
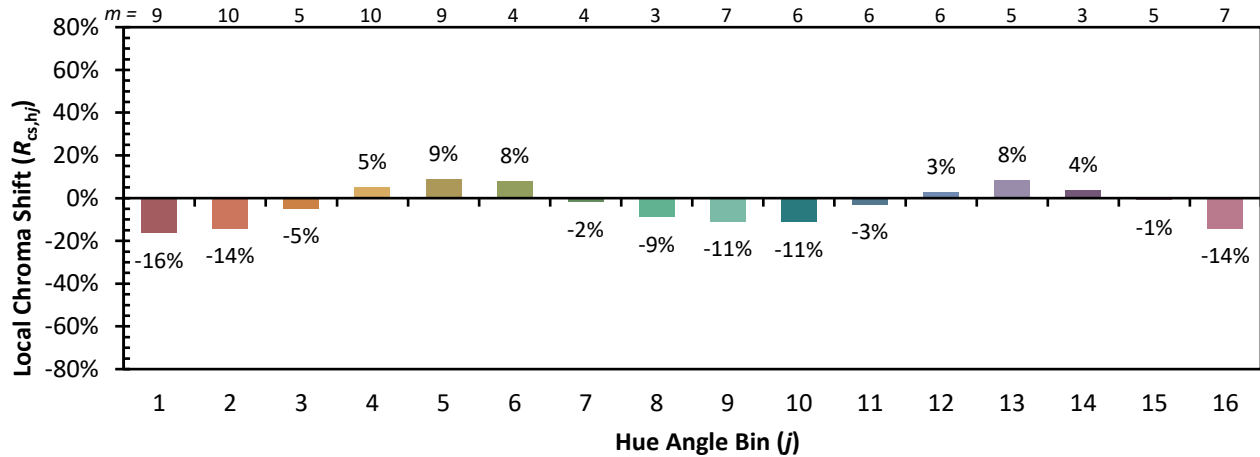
TM-30-18

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

CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



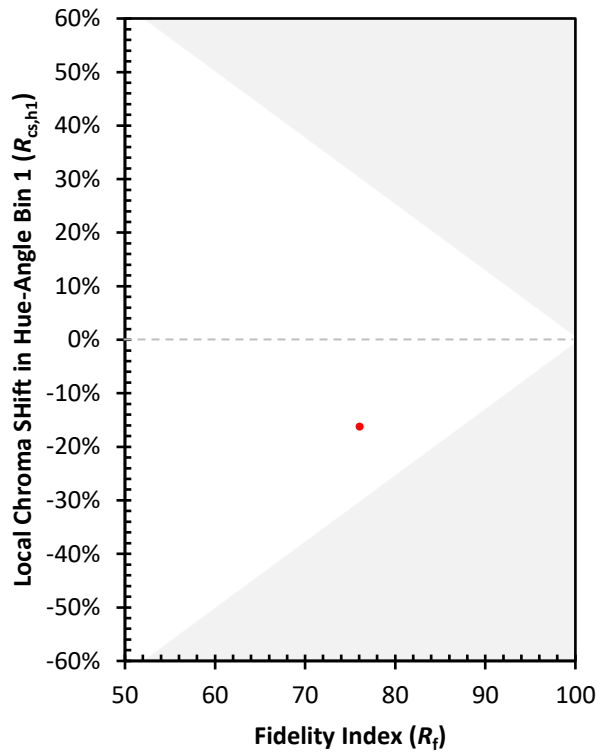
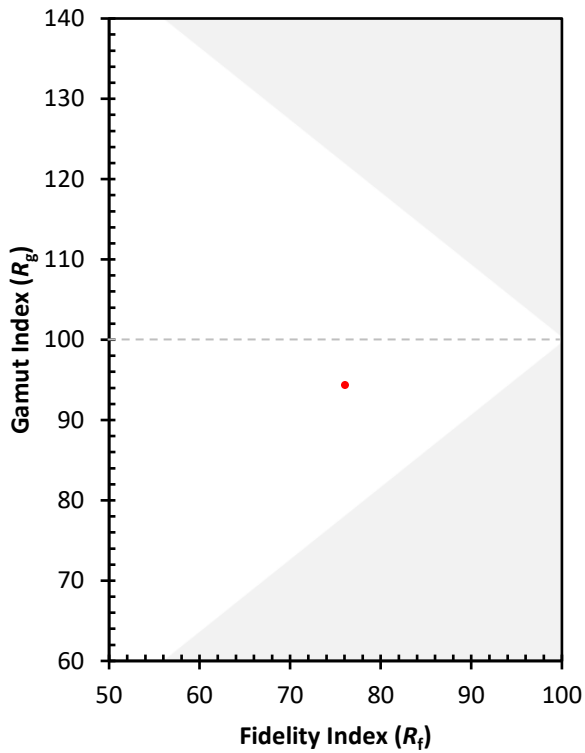
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)