

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: P856104

Luminaire Tested: **FFX-CLB-70-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856104
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-722-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

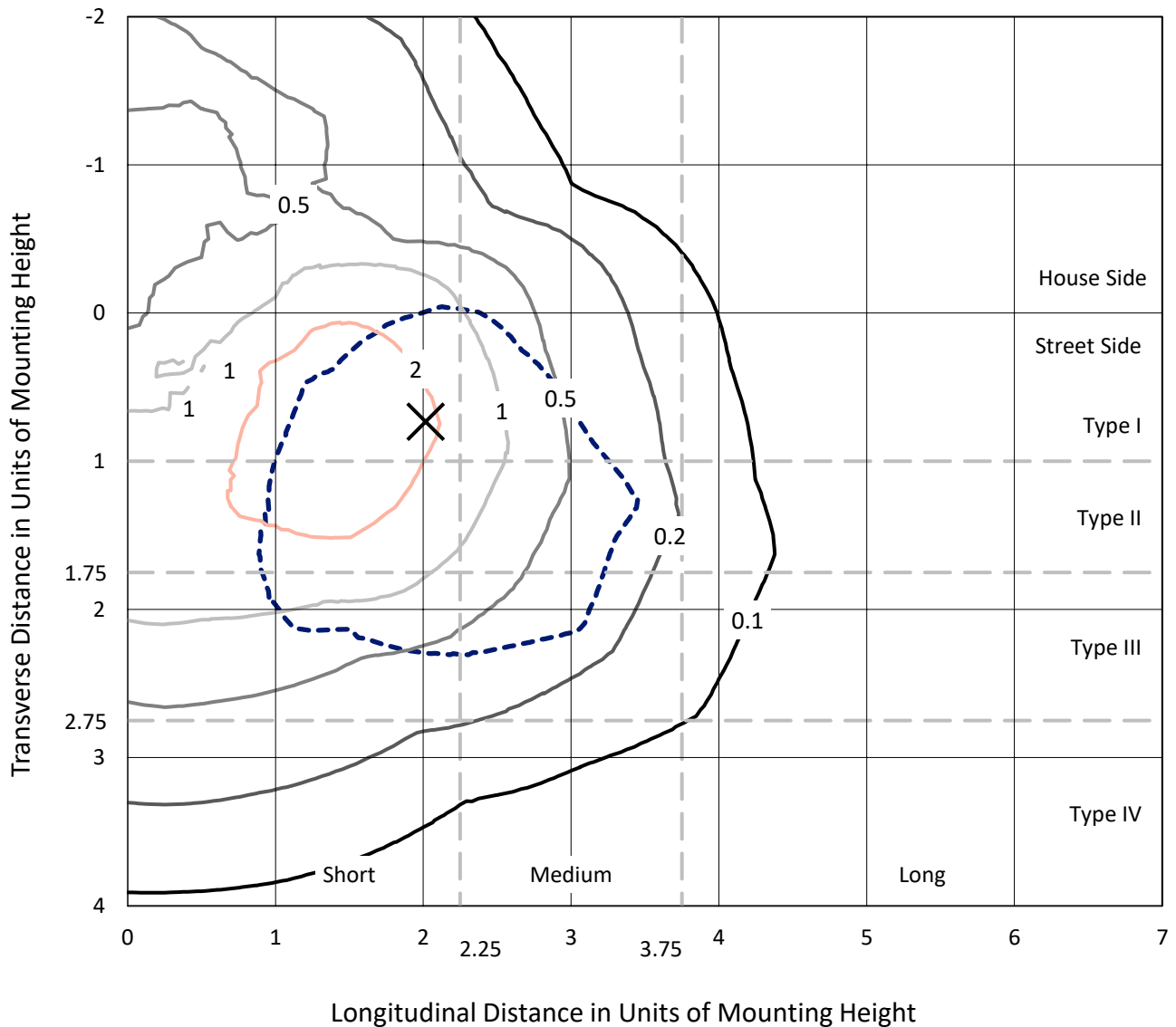
Lumens per Lamp: N/A
Luminaire Lumens: 9355.2 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

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

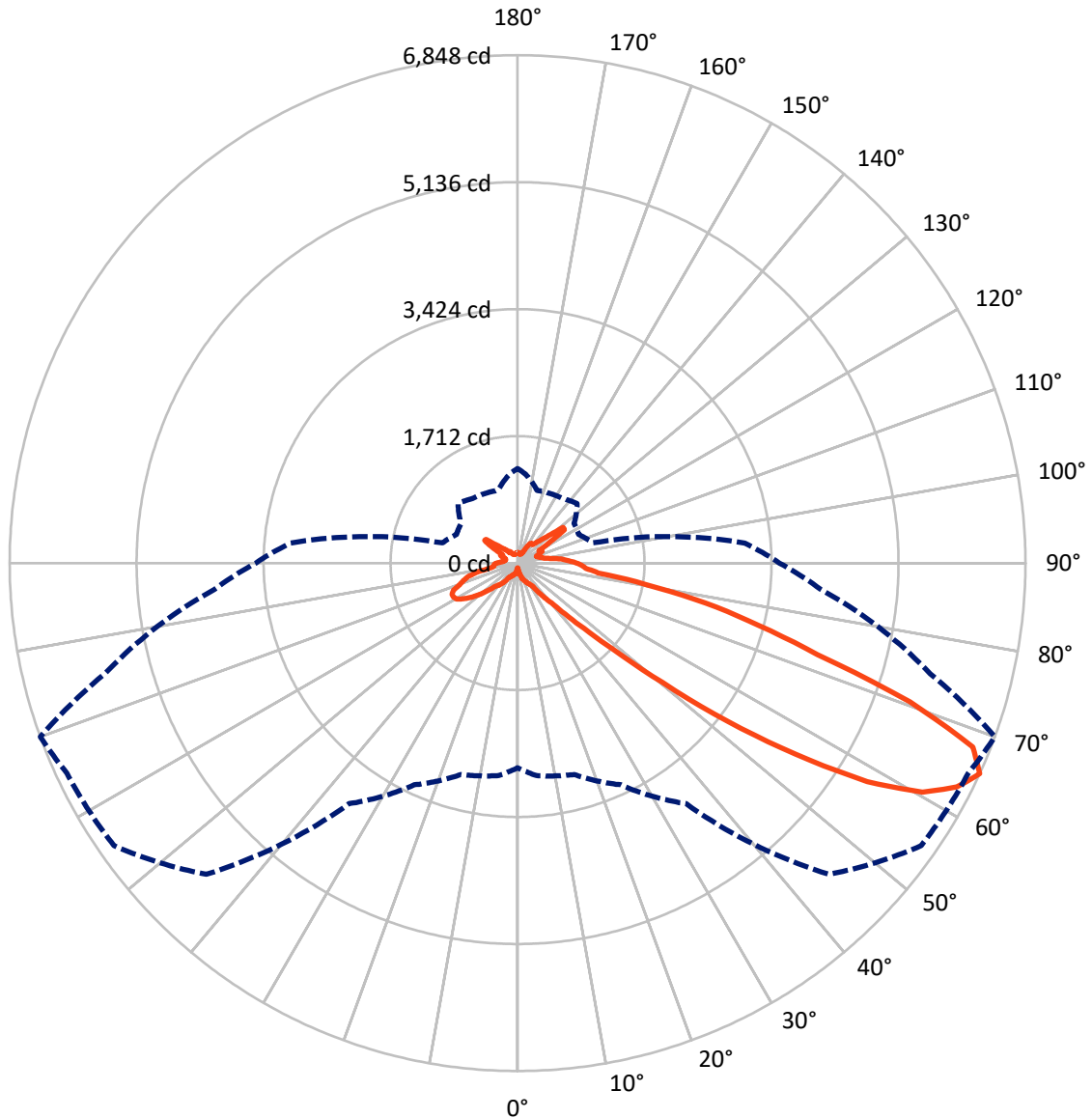
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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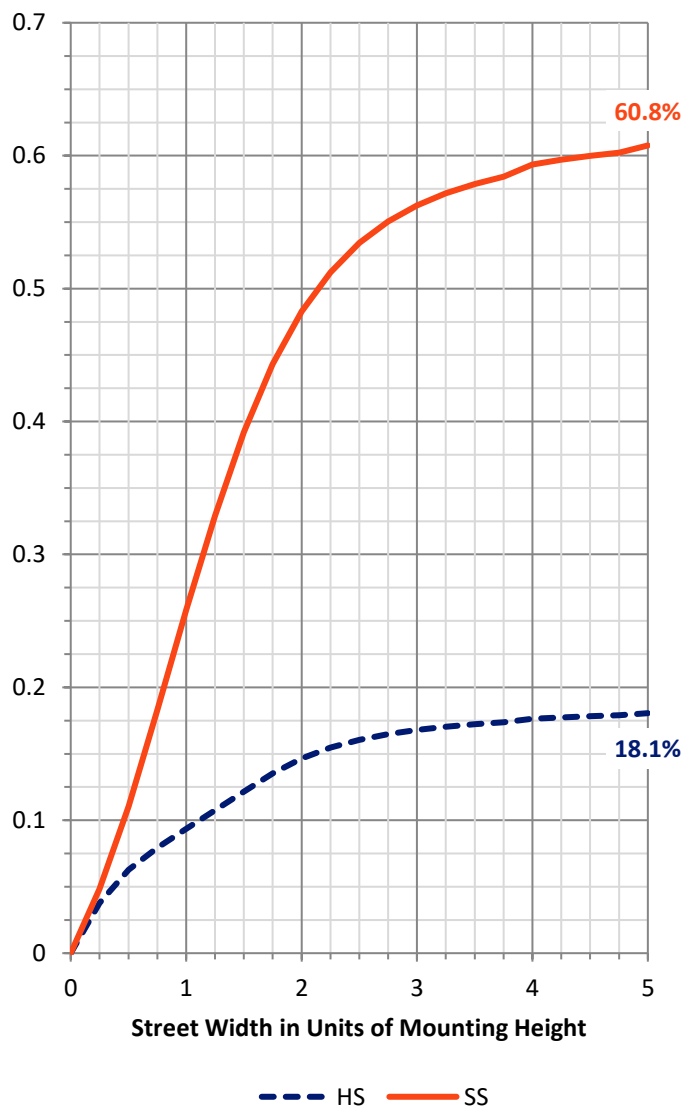
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.2	628.7	2390.9
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	5876.4	1087.9	6964.3
	% Fixture	62.8	11.6	74.4
Total	Lumens	7638.7	1716.5	9355.2
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	49.0	0.5
20°-30°	104.0	1.1
30°-40°	211.9	2.3
40°-50°	538.7	5.8
50°-60°	1731.3	18.5
60°-70°	2825.5	30.2
70°-80°	1608.5	17.2
80°-90°	559.7	6.0
90°-100°	348.3	3.7
100°-110°	221.8	2.4
110°-120°	244.0	2.6
120°-130°	412.7	4.4
130°-140°	243.3	2.6
140°-150°	130.9	1.4
150°-160°	66.2	0.7
160°-170°	36.2	0.4
170°-180°	13.1	0.1
0°-90°	7638.7	81.7
0°-180°	9355.2	100.0



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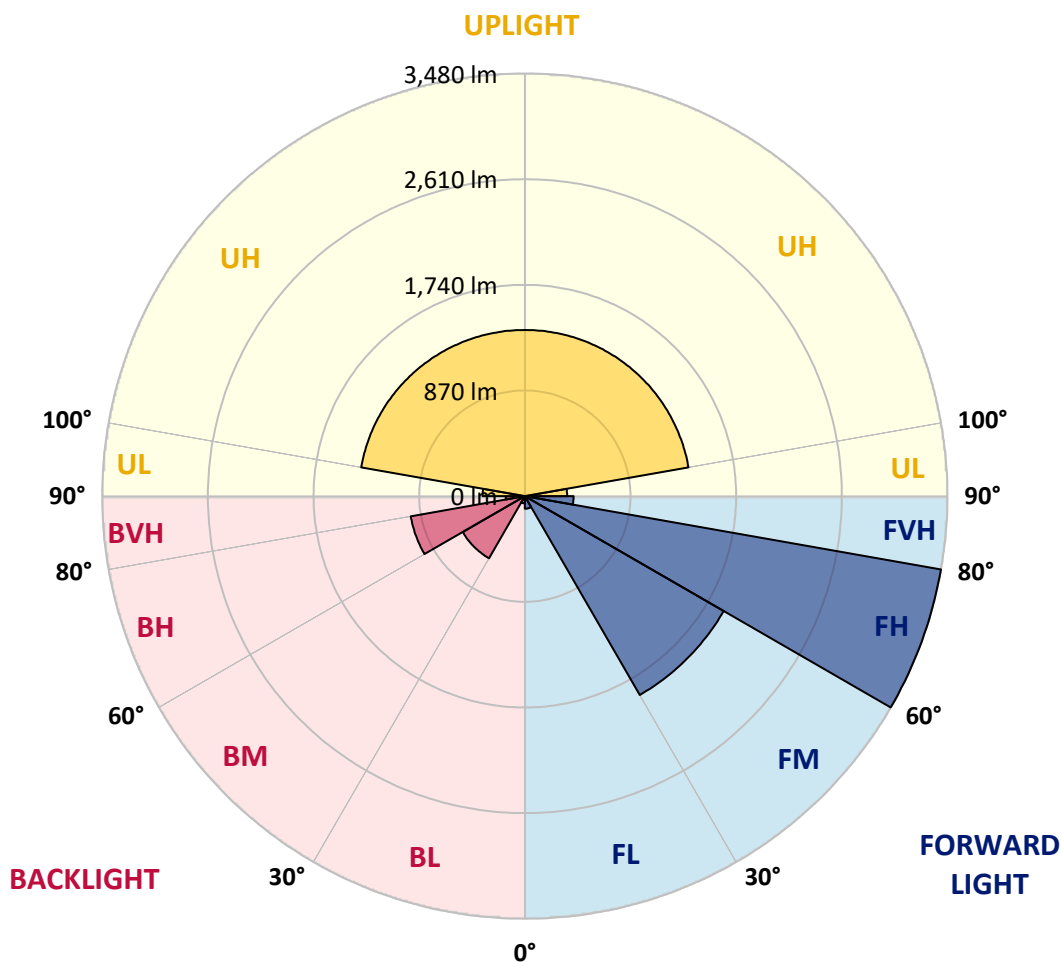
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	103.8	1.1			
FM (30°-60°)	1891.3	20.2			
FH (60°-80°)	3480.0	37.2			G2/5000
FVH (80°-90°)	401.3	4.3			G3/500
BL (0°-30°)	59.2	0.6	B0/110		
BM (30°-60°)	590.6	6.3	B1/1000		
BH (60°-80°)	954.0	10.2	B2/1000		G2/1000
BVH (80°-90°)	158.4	1.7			G2/225
UL (90°-100°)	348.3	3.7		U3/500	
UH (100°-180°)	1368.3	14.6		U5	

BUG Rating: B2-U5-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	74.2	74.2	76.2	76.2	76.2	74.2	73.3	71.3	71.3	71.3	70.4
5°	96.4	95.4	96.4	99.3	100.3	97.4	95.4	92.5	92.5	91.6	91.6
7.5°	130.1	129.2	127.3	124.4	125.3	128.2	132.1	124.4	122.4	117.6	115.7
10°	162.9	161.0	162.9	158.1	153.3	146.5	150.4	148.5	144.6	139.8	135.9
12.5°	198.6	199.6	203.4	199.6	191.8	181.2	179.3	174.5	170.6	169.7	163.9
15°	235.2	236.2	240.0	239.1	231.4	216.9	211.1	206.3	204.4	198.6	186.1
17.5°	254.5	255.5	256.4	257.4	252.6	241.0	232.3	223.7	220.8	218.8	203.4
20°	264.2	262.2	264.2	268.0	271.9	262.2	253.5	248.7	245.8	239.1	218.8
22.5°	279.6	277.6	276.7	279.6	291.1	284.4	275.7	270.9	268.0	259.3	228.5
25°	296.0	294.0	296.9	295.0	309.5	306.6	297.9	293.1	289.2	278.6	242.9
27.5°	314.3	312.4	315.2	313.3	324.9	326.8	321.0	317.2	311.4	296.0	253.5
30°	329.7	327.8	330.7	329.7	341.3	348.0	345.1	344.2	335.5	317.2	271.9
32.5°	342.2	341.3	348.0	350.9	353.8	369.2	367.3	376.0	366.3	344.2	298.9
35°	371.2	374.1	392.4	411.7	414.5	445.4	449.2	481.1	471.4	442.5	387.5
37.5°	573.6	563.0	544.7	526.4	519.6	579.4	588.1	619.9	595.8	541.8	453.1
40°	611.2	593.9	572.6	558.2	560.1	667.1	648.8	769.3	700.9	619.9	553.4
42.5°	580.4	574.6	648.8	683.5	658.4	814.6	783.8	1013.2	935.1	736.5	668.1
45°	727.9	716.3	742.3	777.0	784.7	1072.0	1050.8	1290.9	1259.1	920.7	857.0
47.5°	832.9	822.3	857.0	974.7	1075.9	1386.3	1502.0	1848.1	1736.3	1308.2	1160.7
50°	1148.2	1146.3	1253.3	1393.1	1570.4	2016.8	2324.3	2712.8	2532.6	1851.9	1591.6
52.5°	1459.6	1463.4	1594.5	1842.3	2026.4	2815.0	3251.7	3523.6	3547.7	2415.0	2063.1
55°	1694.8	1718.9	1877.0	2292.5	2571.1	3525.5	4092.4	4303.5	4544.5	3263.3	2553.8
57.5°	2153.7	2190.3	2340.7	2747.5	3137.0	4410.5	5176.0	5199.1	5558.7	4204.2	3080.1
60°	2554.7	2640.5	2693.6	3062.8	3594.0	5256.0	5981.0	5934.7	6272.1	4984.1	3614.2
62.5°	2679.1	2777.4	2827.6	3220.9	3955.5	5730.3	6357.0	6414.8	6647.1	5531.7	3941.0
65°	2760.1	2875.8	2951.0	3299.0	3959.4	5932.8	6642.3	6704.0	6847.7	5761.2	4104.0
67.5°	2718.6	2866.1	2962.5	3272.0	3751.1	5776.6	6585.4	6466.9	6619.2	5569.3	3921.8
70°	2373.5	2527.7	2625.1	2855.5	3136.1	4856.9	5677.3	5478.7	5612.7	4648.7	3224.8
72.5°	1933.9	2010.0	2069.8	2196.1	2363.9	3582.4	4314.1	4149.3	4229.3	3497.6	2416.9
75°	1588.8	1611.9	1686.1	1758.4	1786.4	2620.3	3417.6	3267.2	3360.7	2662.7	1923.3
77.5°	1154.0	1167.5	1273.5	1285.1	1278.3	1798.0	2693.6	2561.5	2591.4	1979.2	1435.5
80°	670.0	696.0	834.9	828.1	816.6	1107.7	1896.3	1843.3	1750.7	1343.9	993.9
82.5°	472.4	498.4	562.0	576.5	568.8	795.3	1231.1	1196.4	1096.1	935.1	687.4
85°	497.5	500.3	503.2	510.0	497.5	709.5	942.8	925.5	926.5	773.2	566.9
87.5°	490.7	502.3	507.1	510.0	497.5	673.9	876.3	854.2	864.8	734.6	550.5
90°	430.9	452.1	454.1	458.9	452.1	601.6	786.7	765.5	779.0	662.3	501.3
92.5°	351.9	363.4	376.9	395.3	387.5	514.8	669.1	653.6	670.0	573.6	440.6
95°	333.6	346.1	354.8	367.3	355.7	469.5	604.5	573.6	587.1	502.3	379.8
97.5°	275.7	286.3	294.0	298.9	290.2	370.2	463.7	442.5	441.5	388.5	303.7
100°	235.2	242.0	248.7	253.5	245.8	306.6	367.3	359.6	361.5	321.0	261.3
102.5°	223.7	227.5	238.1	239.1	230.4	279.6	330.7	327.8	331.6	296.9	244.9
105°	218.8	221.7	230.4	227.5	219.8	261.3	304.6	306.6	306.6	276.7	229.4
107.5°	204.4	209.2	218.8	214.0	210.2	241.0	280.5	273.8	275.7	257.4	217.9
110°	202.5	206.3	215.9	212.1	209.2	235.2	269.9	268.0	270.9	254.5	223.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	251.6	247.8	255.5	247.8	252.6	274.8	311.4	307.5	316.2	310.4	279.6
115°	310.4	312.4	320.1	304.6	309.5	331.6	351.9	358.6	366.3	357.7	325.8
117.5°	287.3	303.7	294.0	292.1	288.3	305.6	302.7	320.1	327.8	321.0	308.5
120°	307.5	327.8	299.8	285.4	279.6	323.0	344.2	343.2	337.4	323.9	297.9
122.5°	459.9	462.7	464.7	508.1	492.6	535.0	547.6	531.2	531.2	548.5	495.5
125°	717.3	720.1	718.2	737.5	726.9	767.4	783.8	782.8	773.2	764.5	712.4
127.5°	725.0	725.0	718.2	707.6	717.3	756.8	757.7	794.4	781.8	758.7	710.5
130°	506.1	510.0	534.1	541.8	555.3	564.0	554.3	586.1	591.9	588.1	555.3
132.5°	419.4	426.1	452.1	461.8	470.5	471.4	467.6	492.6	498.4	498.4	484.0
135°	362.5	370.2	373.1	368.3	380.8	390.4	398.2	418.4	416.5	412.6	400.1
137.5°	316.2	319.1	310.4	299.8	306.6	334.5	350.0	371.2	370.2	363.4	342.2
140°	267.0	268.0	263.2	258.4	265.1	289.2	303.7	326.8	323.9	319.1	294.0
142.5°	202.5	205.3	217.9	227.5	243.9	294.0	286.3	306.6	321.0	332.6	274.8
145°	213.1	209.2	207.3	217.9	239.1	311.4	289.2	315.2	322.0	329.7	263.2
147.5°	245.8	247.8	244.9	238.1	267.0	290.2	277.6	300.8	304.6	302.7	275.7
150°	192.8	195.7	196.7	193.8	229.4	228.5	215.9	233.3	235.2	235.2	216.9
152.5°	157.1	158.1	156.2	154.2	177.4	173.5	167.7	173.5	172.6	171.6	167.7
155°	149.4	149.4	147.5	148.5	163.9	160.0	156.2	160.0	158.1	155.2	151.4
157.5°	137.9	138.8	138.8	141.7	151.4	144.6	140.8	142.7	140.8	138.8	138.8
160°	130.1	130.1	131.1	135.0	140.8	134.0	131.1	132.1	131.1	129.2	130.1
162.5°	127.3	127.3	128.2	130.1	131.1	127.3	124.4	124.4	124.4	124.4	127.3
165°	125.3	125.3	125.3	126.3	126.3	123.4	122.4	123.4	124.4	125.3	129.2
167.5°	129.2	129.2	129.2	129.2	128.2	126.3	125.3	126.3	127.3	128.2	131.1
170°	135.0	134.0	134.0	133.0	132.1	130.1	129.2	128.2	128.2	129.2	130.1
172.5°	138.8	138.8	137.9	137.9	136.9	135.0	133.0	132.1	132.1	132.1	132.1
175°	143.6	143.6	143.6	143.6	142.7	140.8	139.8	137.9	137.9	137.9	137.9
177.5°	149.4	149.4	149.4	149.4	147.5	145.6	143.6	141.7	141.7	141.7	140.8
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	69.4	68.4	65.6	64.6	63.6	61.7	59.8	58.8	57.8	57.8	58.8
5°	92.5	91.6	91.6	88.7	85.8	81.0	79.1	79.1	80.0	81.0	82.9
7.5°	116.7	118.6	120.5	115.7	107.0	95.4	88.7	90.6	95.4	99.3	99.3
10°	135.0	135.0	141.7	135.9	121.5	107.0	97.4	95.4	96.4	97.4	98.3
12.5°	161.0	161.0	157.1	141.7	127.3	112.8	105.1	103.2	103.2	99.3	98.3
15°	180.3	174.5	161.0	146.5	134.0	119.5	110.9	108.0	105.1	102.2	101.2
17.5°	191.8	181.2	162.9	149.4	136.9	125.3	116.7	110.9	108.0	108.9	108.9
20°	205.3	193.8	177.4	162.9	147.5	132.1	121.5	112.8	109.9	110.9	109.9
22.5°	215.9	204.4	188.0	171.6	155.2	138.8	126.3	115.7	111.8	112.8	112.8
25°	228.5	218.8	201.5	182.2	162.0	146.5	134.0	121.5	115.7	114.7	114.7
27.5°	241.0	234.3	215.9	192.8	171.6	153.3	140.8	126.3	119.5	116.7	116.7
30°	257.4	249.7	231.4	203.4	180.3	162.9	149.4	134.0	124.4	119.5	118.6
32.5°	283.4	274.8	252.6	222.7	189.9	172.6	158.1	140.8	128.2	122.4	121.5
35°	368.3	354.8	320.1	285.4	232.3	192.8	168.7	146.5	132.1	124.4	123.4
37.5°	421.3	388.5	342.2	319.1	261.3	236.2	203.4	167.7	137.9	128.2	126.3
40°	507.1	461.8	403.9	358.6	254.5	258.4	238.1	209.2	163.9	135.0	132.1
42.5°	579.4	522.5	434.8	376.0	255.5	269.9	254.5	230.4	196.7	160.0	154.2
45°	714.4	641.1	505.2	403.9	262.2	287.3	268.0	242.9	213.1	188.0	185.1
47.5°	965.0	865.7	631.5	450.2	306.6	333.6	298.9	266.1	239.1	210.2	205.3
50°	1320.8	1202.2	777.0	486.8	382.7	439.6	376.9	322.0	291.1	269.9	267.0
52.5°	1730.5	1606.1	884.0	554.3	475.3	570.7	498.4	434.8	394.3	394.3	400.1
55°	2206.7	2082.4	969.8	647.8	589.0	715.3	637.2	585.2	565.9	647.8	670.0
57.5°	2679.1	2521.0	1027.7	743.3	722.1	885.0	791.5	747.1	782.8	1025.8	1100.9
60°	3110.0	2848.8	1073.0	833.9	835.8	1020.0	950.6	947.7	1002.6	1313.0	1408.5
62.5°	3358.8	3003.0	1070.1	886.0	902.4	1103.8	1046.0	1061.4	1092.3	1361.2	1433.5
65°	3529.4	3076.3	1047.9	909.1	930.3	1133.7	1061.4	1035.4	1015.1	1205.1	1274.5
67.5°	3411.8	2904.7	997.8	875.4	913.0	1090.3	994.9	920.7	881.1	977.5	1024.8
70°	2857.5	2422.7	883.1	787.6	822.3	918.7	827.2	753.9	712.4	764.5	786.7
72.5°	2164.3	1843.3	796.3	736.5	721.1	759.7	672.9	591.0	565.9	599.6	604.5
75°	1723.7	1442.2	732.7	666.2	605.4	643.0	537.0	437.7	423.2	423.2	415.5
77.5°	1292.8	1069.1	624.7	518.7	446.4	508.1	400.1	304.6	285.4	281.5	270.9
80°	866.7	727.9	420.3	344.2	321.0	376.9	284.4	223.7	224.6	223.7	211.1
82.5°	605.4	562.0	341.3	299.8	274.8	296.9	257.4	215.0	213.1	215.0	201.5
85°	537.0	514.8	330.7	309.5	283.4	286.3	246.8	203.4	204.4	208.2	196.7
87.5°	515.8	490.7	331.6	298.9	276.7	265.1	223.7	188.0	193.8	197.6	188.0
90°	464.7	439.6	304.6	269.9	246.8	230.4	197.6	178.3	186.1	189.9	181.2
92.5°	403.0	376.9	253.5	238.1	232.3	232.3	207.3	189.9	194.7	196.7	189.0
95°	347.1	322.0	225.6	209.2	204.4	205.3	185.1	170.6	173.5	172.6	166.8
97.5°	280.5	265.1	196.7	186.1	181.2	179.3	165.8	155.2	161.0	164.9	160.0
100°	247.8	240.0	189.9	182.2	175.5	174.5	162.9	156.2	161.0	166.8	162.9
102.5°	231.4	225.6	181.2	170.6	165.8	163.9	156.2	148.5	153.3	159.1	156.2
105°	217.9	209.2	173.5	163.9	157.1	156.2	148.5	138.8	141.7	149.4	147.5
107.5°	206.3	200.5	172.6	162.0	153.3	153.3	144.6	136.9	137.9	140.8	140.8
110°	215.9	209.2	179.3	171.6	160.0	156.2	154.2	148.5	143.6	141.7	141.7



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 CATALOG NUMBER: FFX-CLB-70-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	267.0	254.5	224.6	215.9	196.7	183.2	170.6	159.1	151.4	148.5	146.5
115°	315.2	300.8	265.1	242.9	216.9	196.7	179.3	166.8	155.2	151.4	155.2
117.5°	324.9	286.3	231.4	213.1	197.6	185.1	175.5	165.8	157.1	160.0	157.1
120°	322.0	274.8	233.3	259.3	233.3	204.4	181.2	181.2	178.3	163.9	166.8
122.5°	495.5	462.7	412.6	397.2	323.9	296.0	252.6	215.9	180.3	160.0	150.4
125°	678.7	646.9	569.8	510.9	437.7	360.6	276.7	213.1	166.8	147.5	150.4
127.5°	682.5	653.6	580.4	481.1	384.7	308.5	230.4	189.0	162.9	150.4	148.5
130°	532.2	504.2	441.5	365.4	304.6	254.5	207.3	170.6	147.5	137.9	135.0
132.5°	460.8	435.8	377.9	308.5	264.2	224.6	185.1	148.5	133.0	126.3	127.3
135°	387.5	357.7	302.7	265.1	237.2	201.5	165.8	135.9	128.2	126.3	125.3
137.5°	328.7	307.5	269.0	240.0	213.1	181.2	145.6	127.3	124.4	126.3	124.4
140°	279.6	262.2	241.0	215.9	183.2	153.3	130.1	121.5	126.3	127.3	126.3
142.5°	241.0	223.7	201.5	167.7	152.3	138.8	133.0	126.3	126.3	125.3	124.4
145°	201.5	178.3	167.7	172.6	162.9	149.4	138.8	125.3	120.5	120.5	121.5
147.5°	231.4	207.3	193.8	183.2	164.9	145.6	129.2	116.7	114.7	118.6	117.6
150°	199.6	177.4	167.7	153.3	141.7	127.3	116.7	111.8	112.8	117.6	117.6
152.5°	159.1	143.6	137.9	134.0	128.2	119.5	113.8	111.8	113.8	115.7	115.7
155°	149.4	140.8	134.0	131.1	124.4	117.6	112.8	111.8	113.8	115.7	117.6
157.5°	139.8	136.9	128.2	125.3	119.5	116.7	113.8	113.8	114.7	116.7	118.6
160°	133.0	132.1	124.4	123.4	119.5	117.6	117.6	118.6	119.5	119.5	119.5
162.5°	129.2	129.2	126.3	124.4	123.4	122.4	125.3	126.3	125.3	125.3	125.3
165°	130.1	131.1	128.2	126.3	125.3	127.3	132.1	132.1	130.1	129.2	128.2
167.5°	131.1	132.1	130.1	129.2	129.2	131.1	133.0	132.1	131.1	130.1	129.2
170°	130.1	131.1	131.1	132.1	132.1	132.1	134.0	134.0	132.1	131.1	131.1
172.5°	132.1	133.0	134.0	135.0	135.9	135.0	135.9	135.9	135.9	135.9	136.9
175°	137.9	137.9	138.8	138.8	137.9	138.8	138.8	138.8	139.8	141.7	141.7
177.5°	140.8	140.8	139.8	139.8	138.8	139.8	139.8	139.8	139.8	140.8	139.8
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7

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.

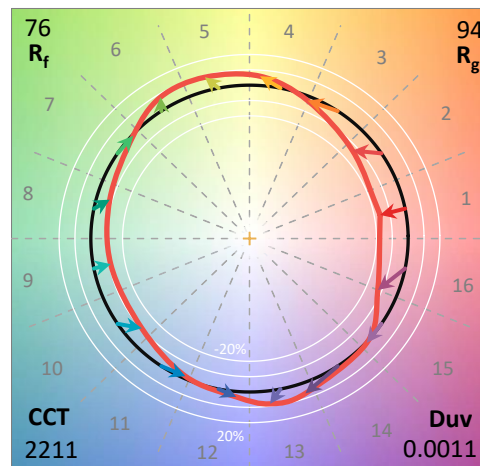
Test Information

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

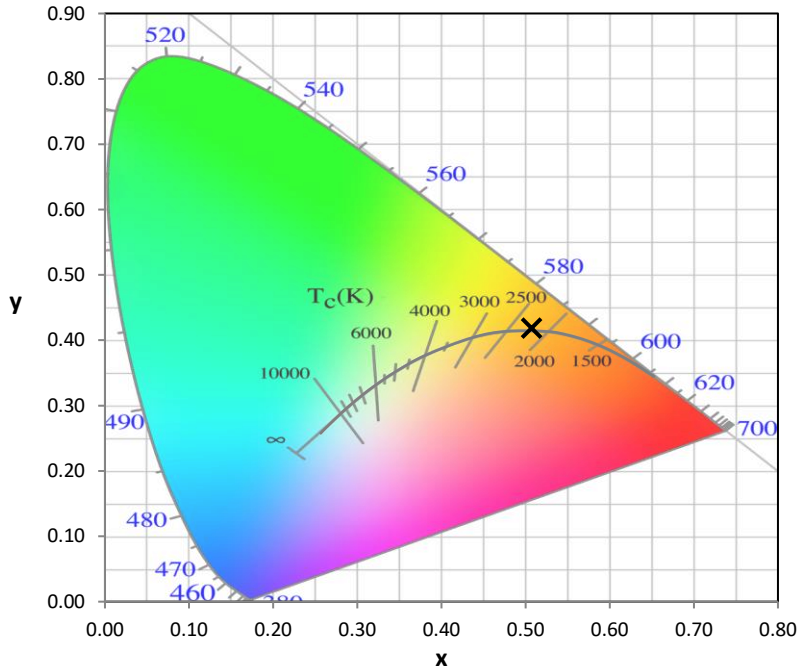
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

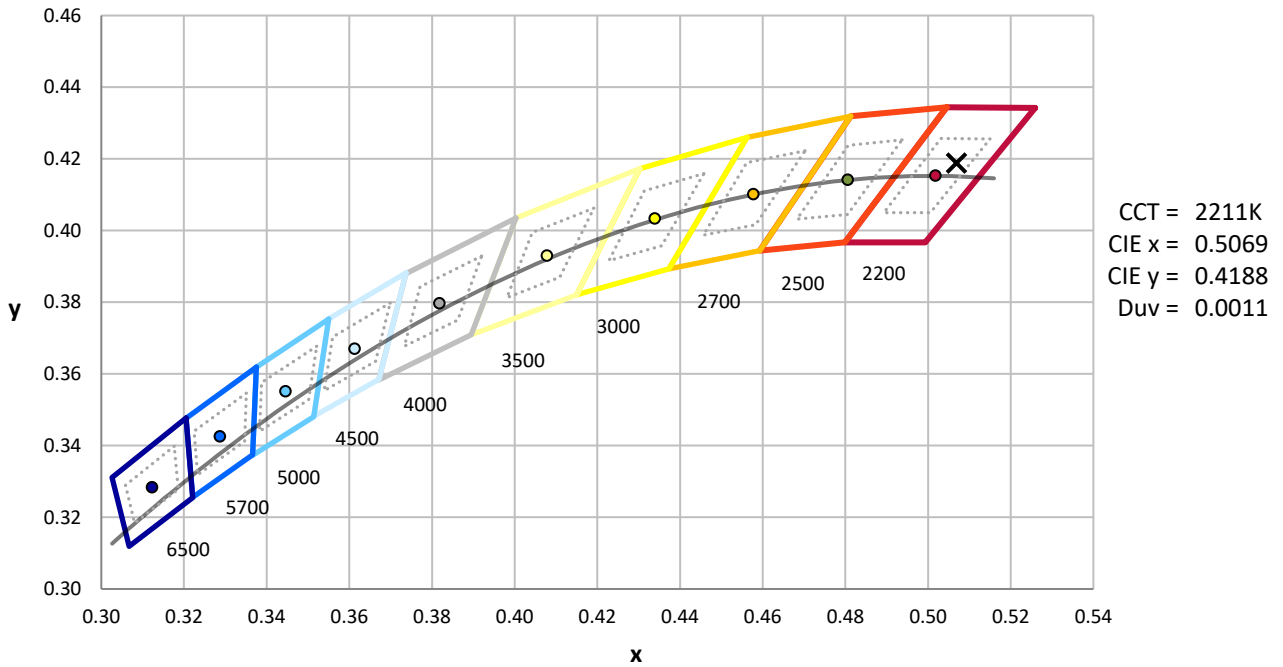
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

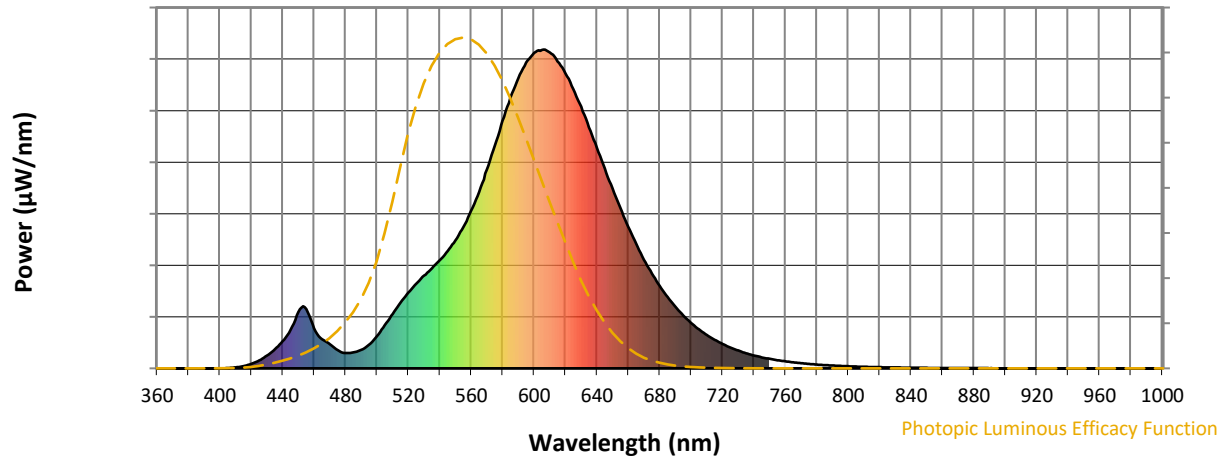


CCT = 2211K
CIE x = 0.5069
CIE y = 0.4188
Duv = 0.0011

Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

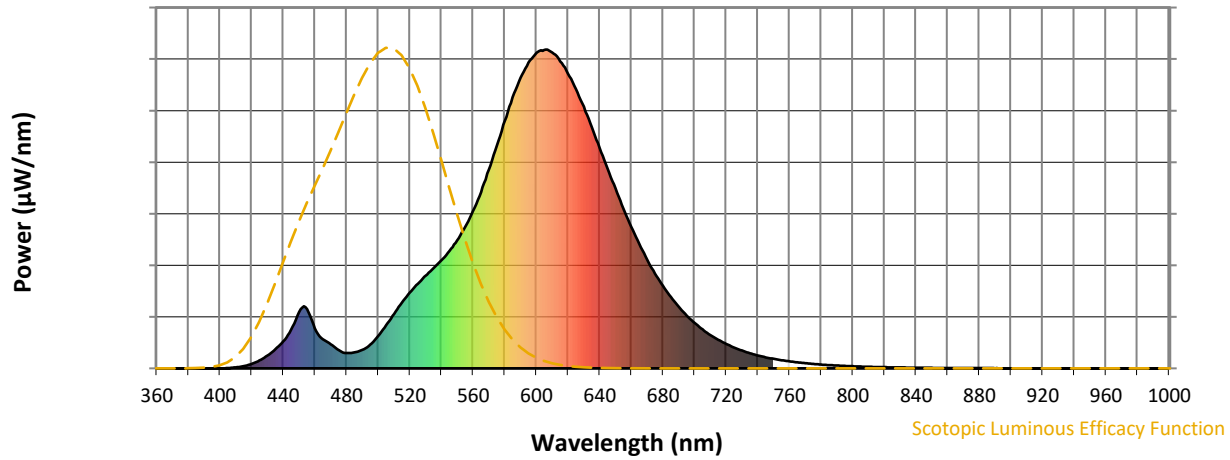


Photopic Lumens: NR

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	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

Scotopic Flux vs. Wavelength



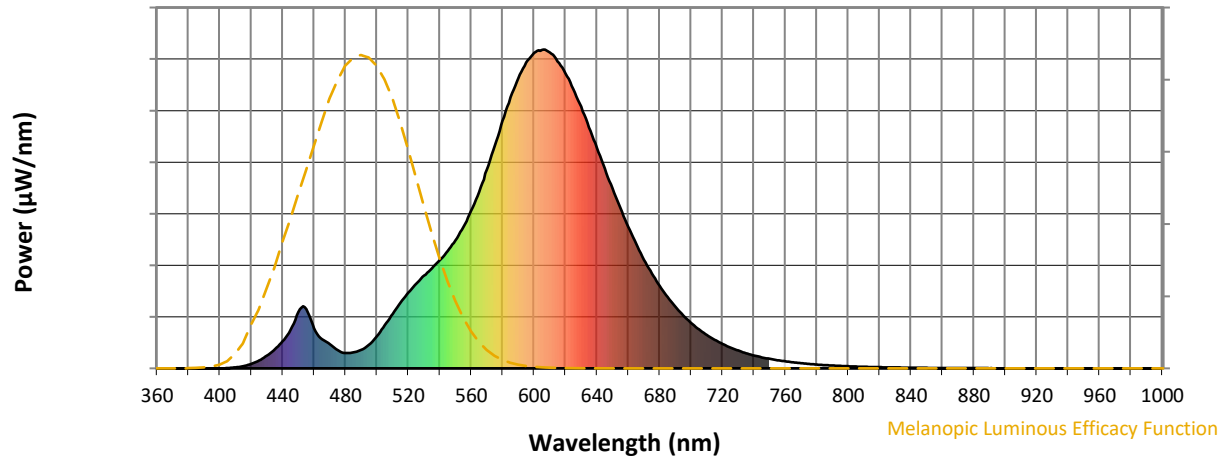
Scotopic Lumens: NR

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

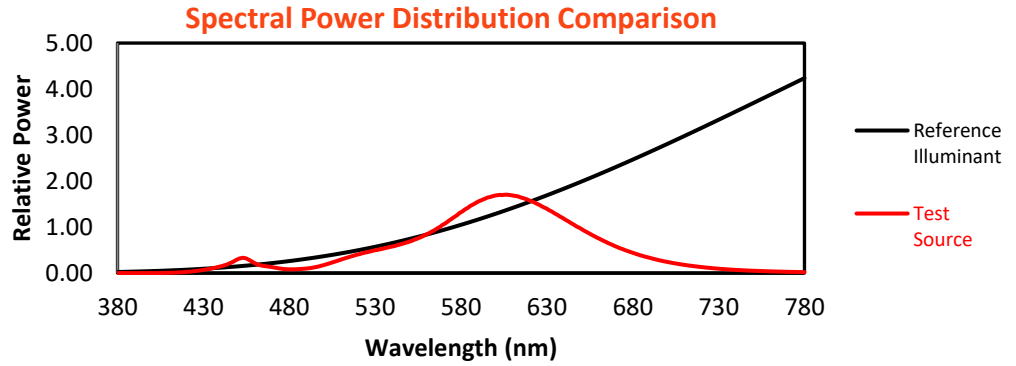
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	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			

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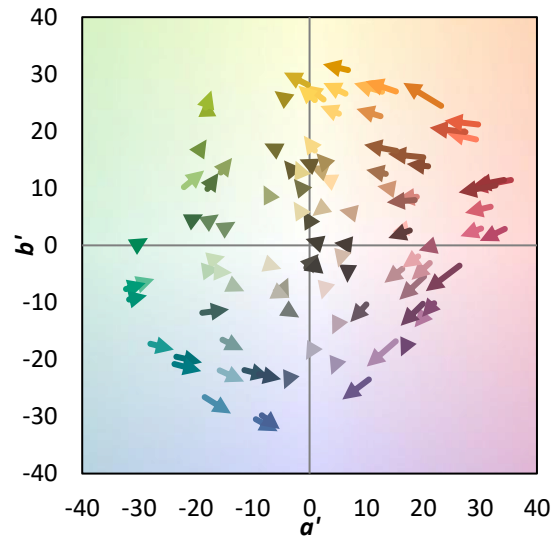
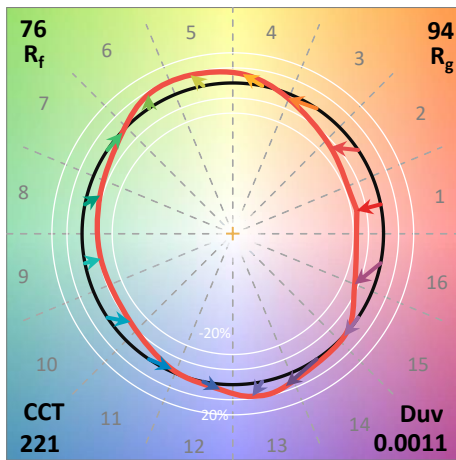
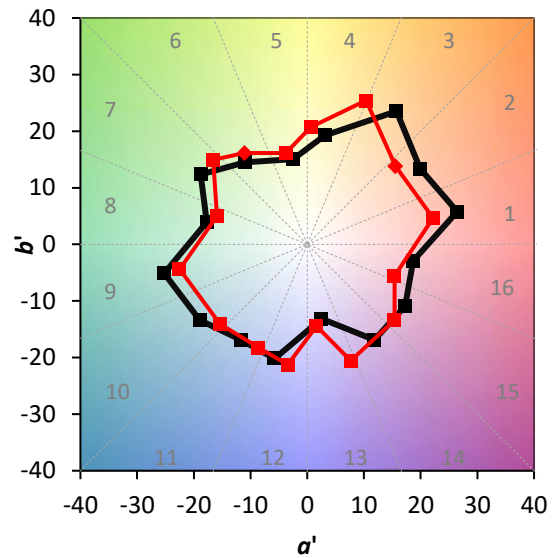
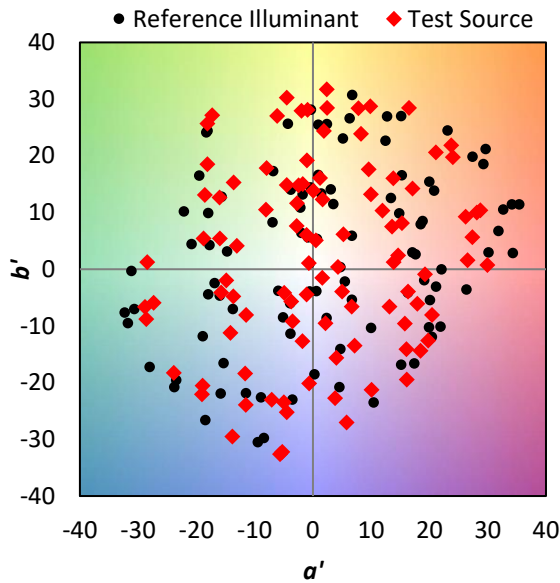
TM-30-18

Summary

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



Color Vector Graphics

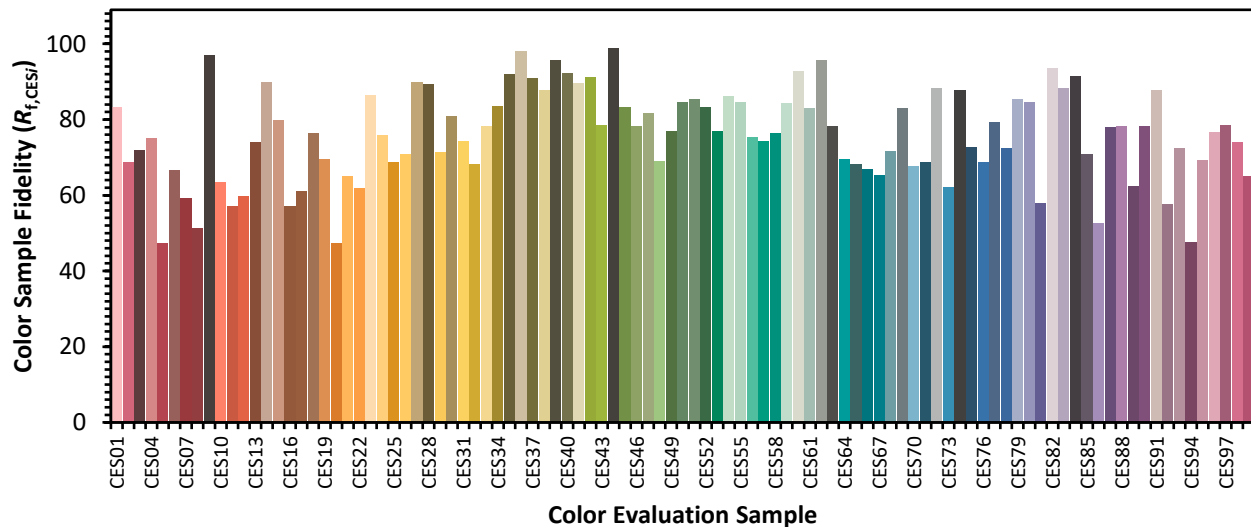


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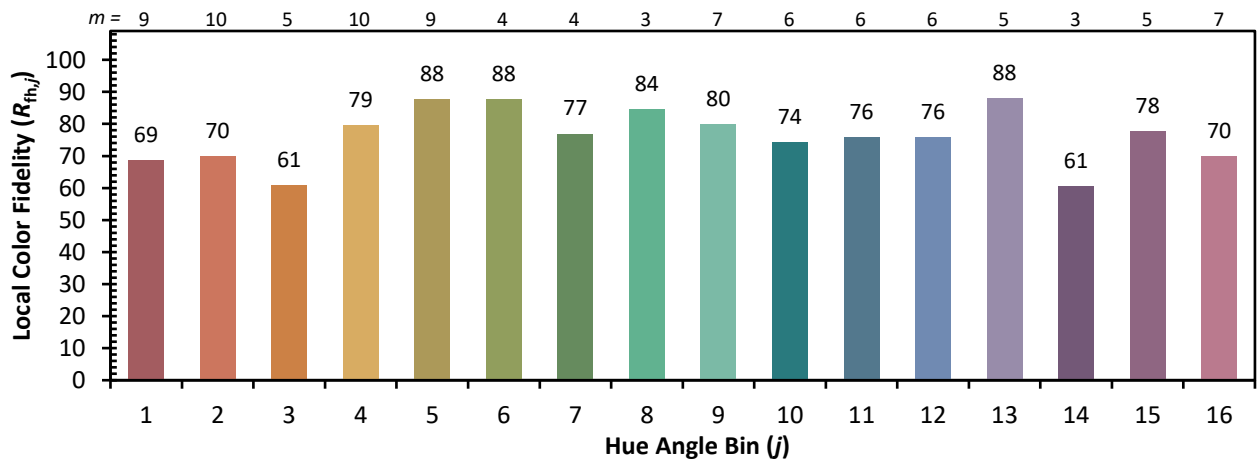
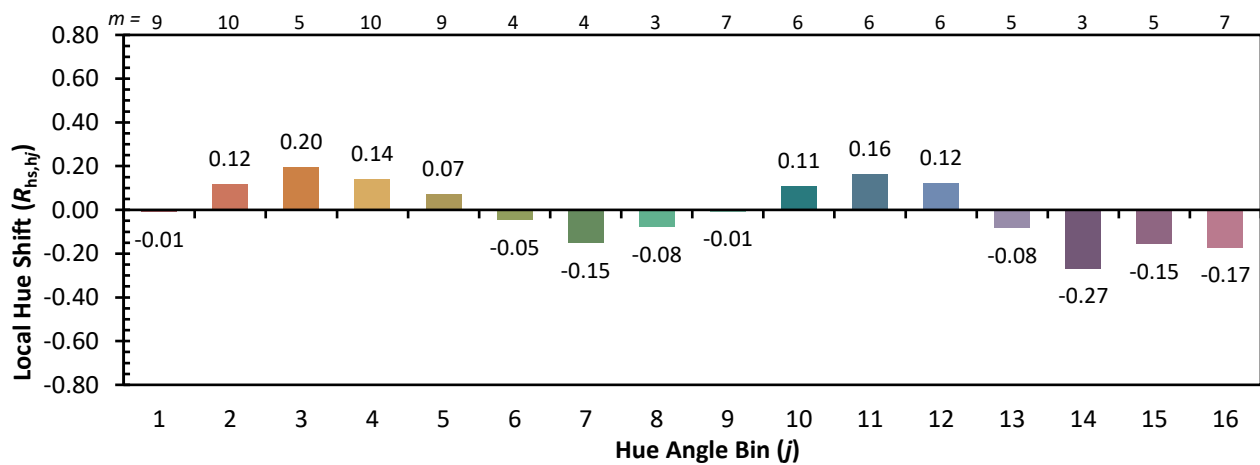
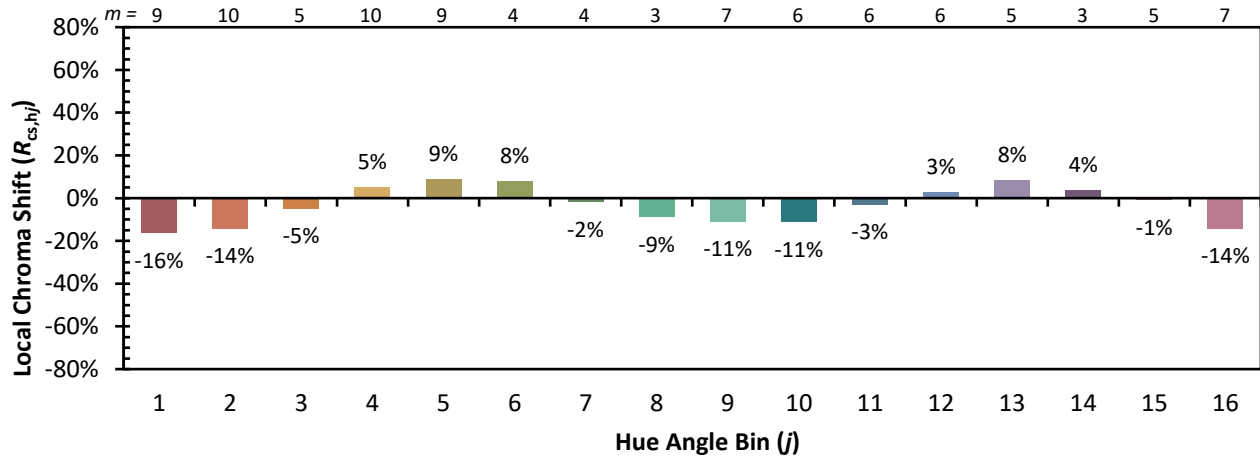
TM-30-18

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	



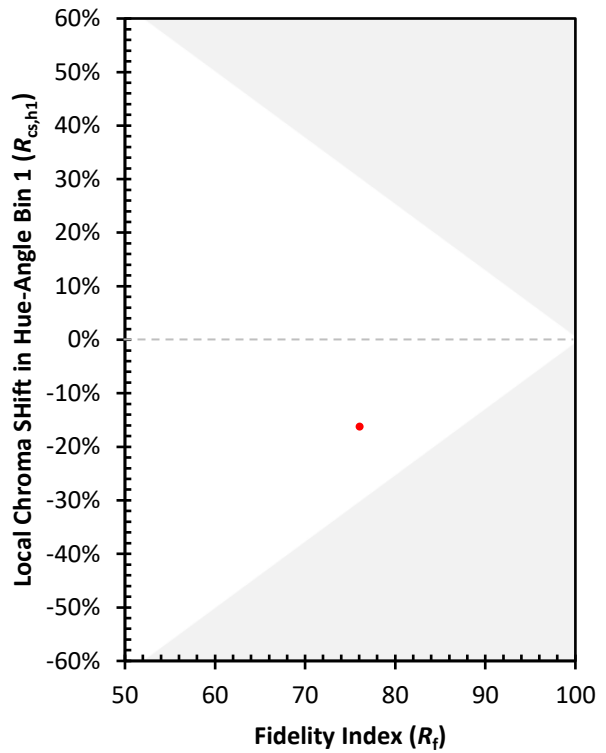
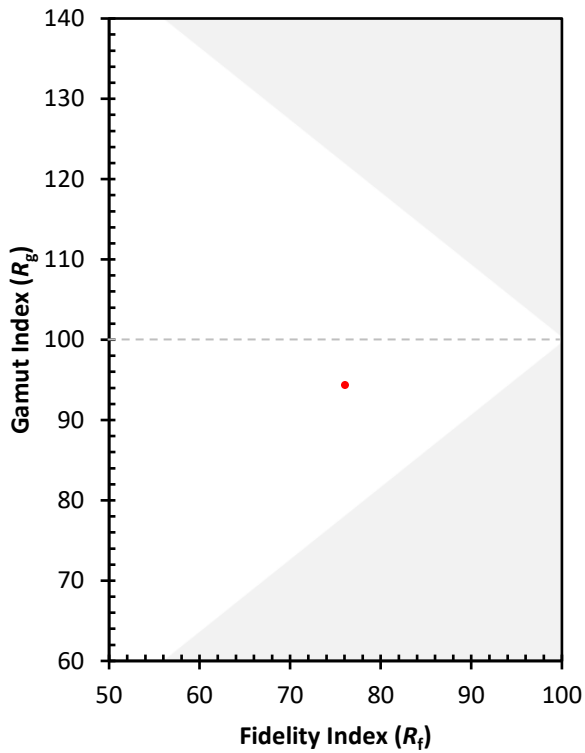
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)