

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: P856115

Luminaire Tested: **FFX-CLB-50-727-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856115
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-50-727-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

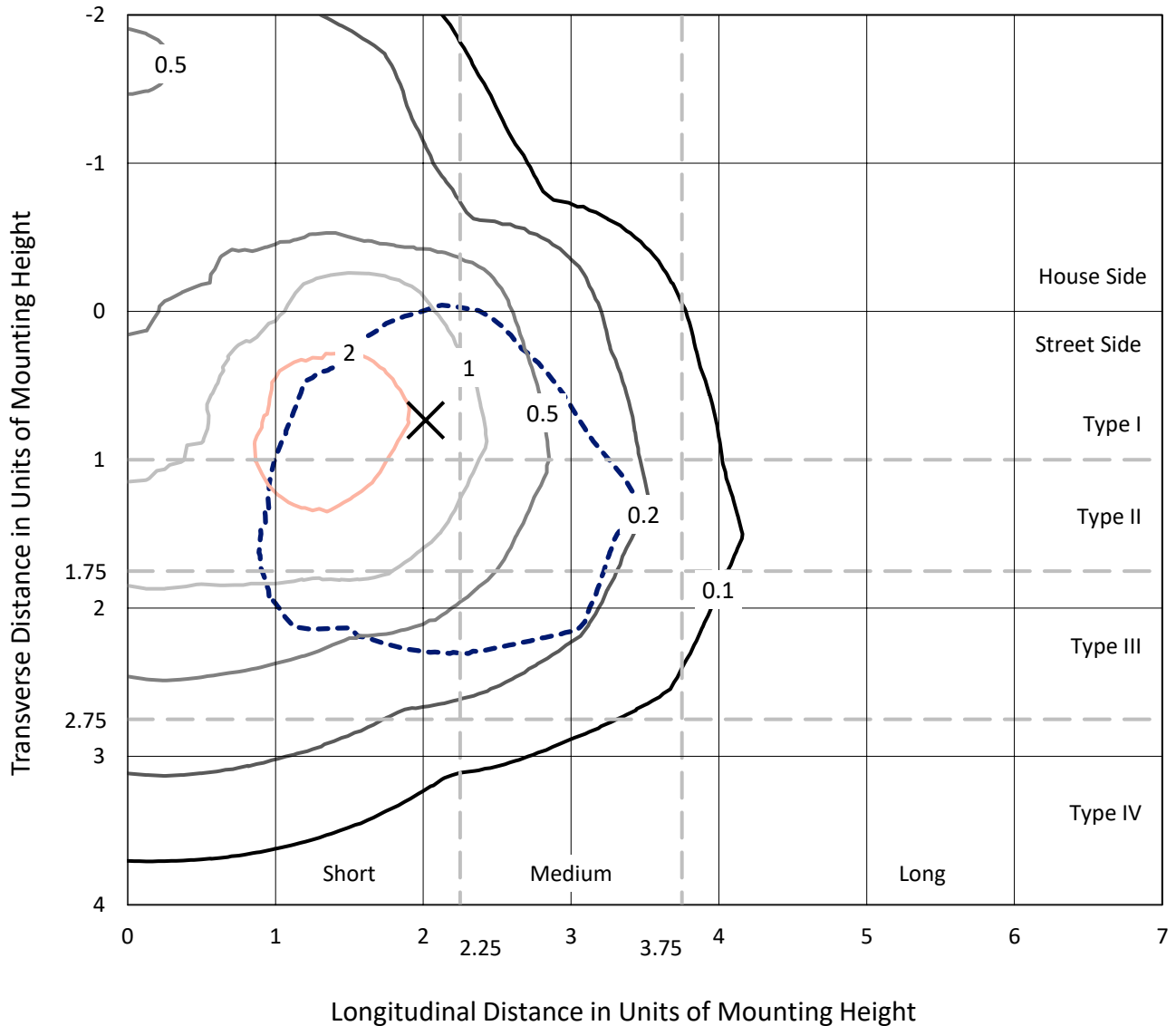
Lumens per Lamp: N/A
Luminaire Lumens: 7398.2 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

Input Watts (W): 50.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.0%%
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

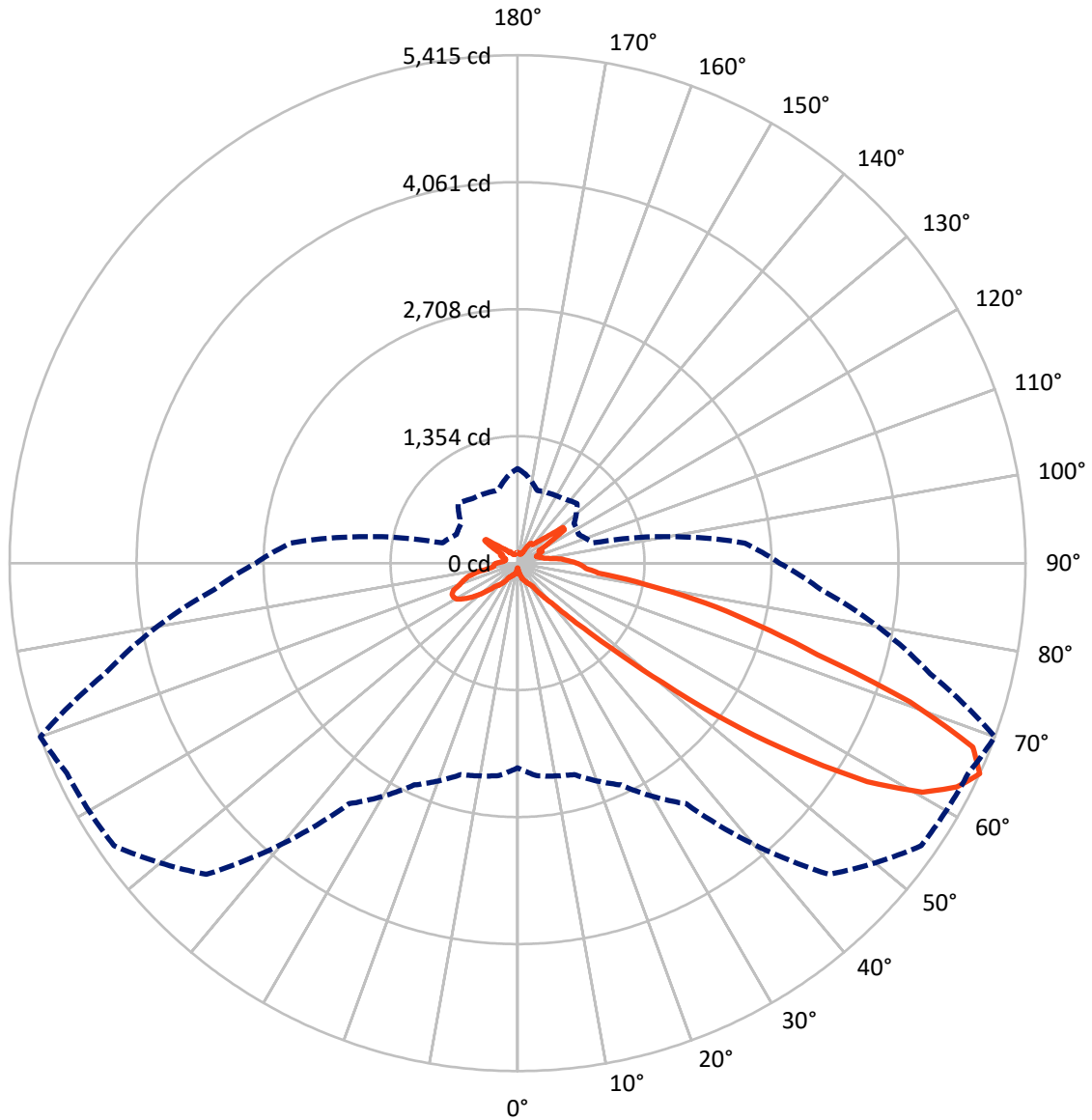
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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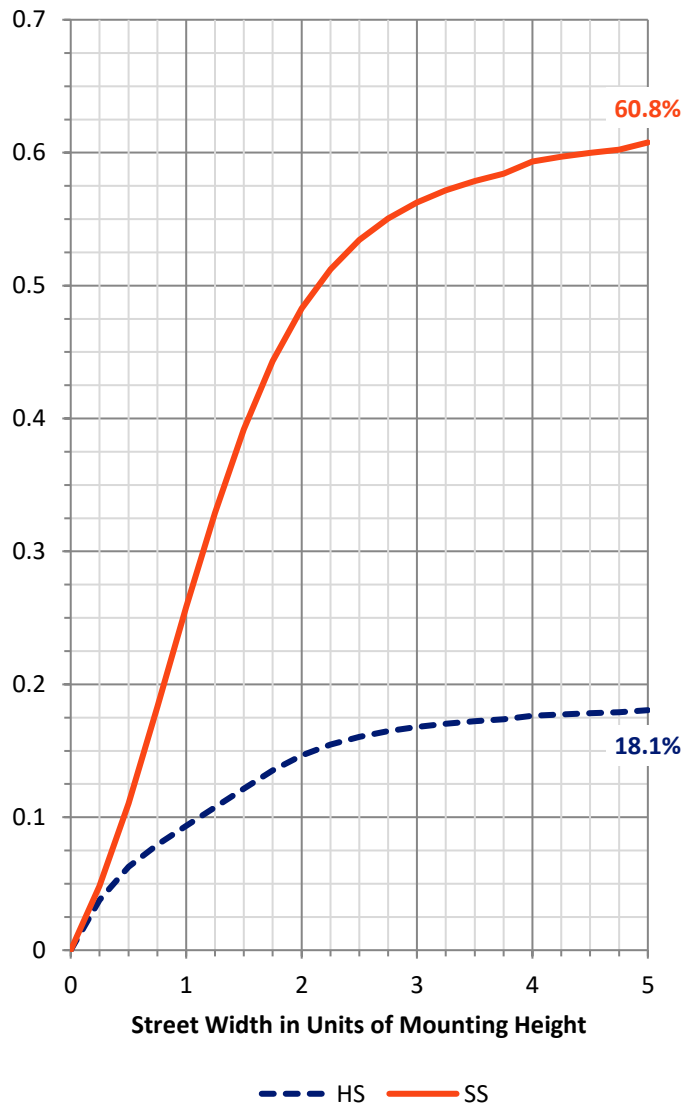
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1393.6	497.2	1890.8
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	4647.2	860.3	5507.5
	% Fixture	62.8	11.6	74.4
Total	Lumens	6040.8	1357.5	7398.2
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.1
10°-20°	38.8	0.5
20°-30°	82.3	1.1
30°-40°	167.5	2.3
40°-50°	426.0	5.8
50°-60°	1369.2	18.5
60°-70°	2234.4	30.2
70°-80°	1272.1	17.2
80°-90°	442.6	6.0
90°-100°	275.4	3.7
100°-110°	175.4	2.4
110°-120°	193.0	2.6
120°-130°	326.4	4.4
130°-140°	192.4	2.6
140°-150°	103.6	1.4
150°-160°	52.3	0.7
160°-170°	28.6	0.4
170°-180°	10.3	0.1
0°-90°	6040.8	81.7
0°-180°	7398.2	100.0

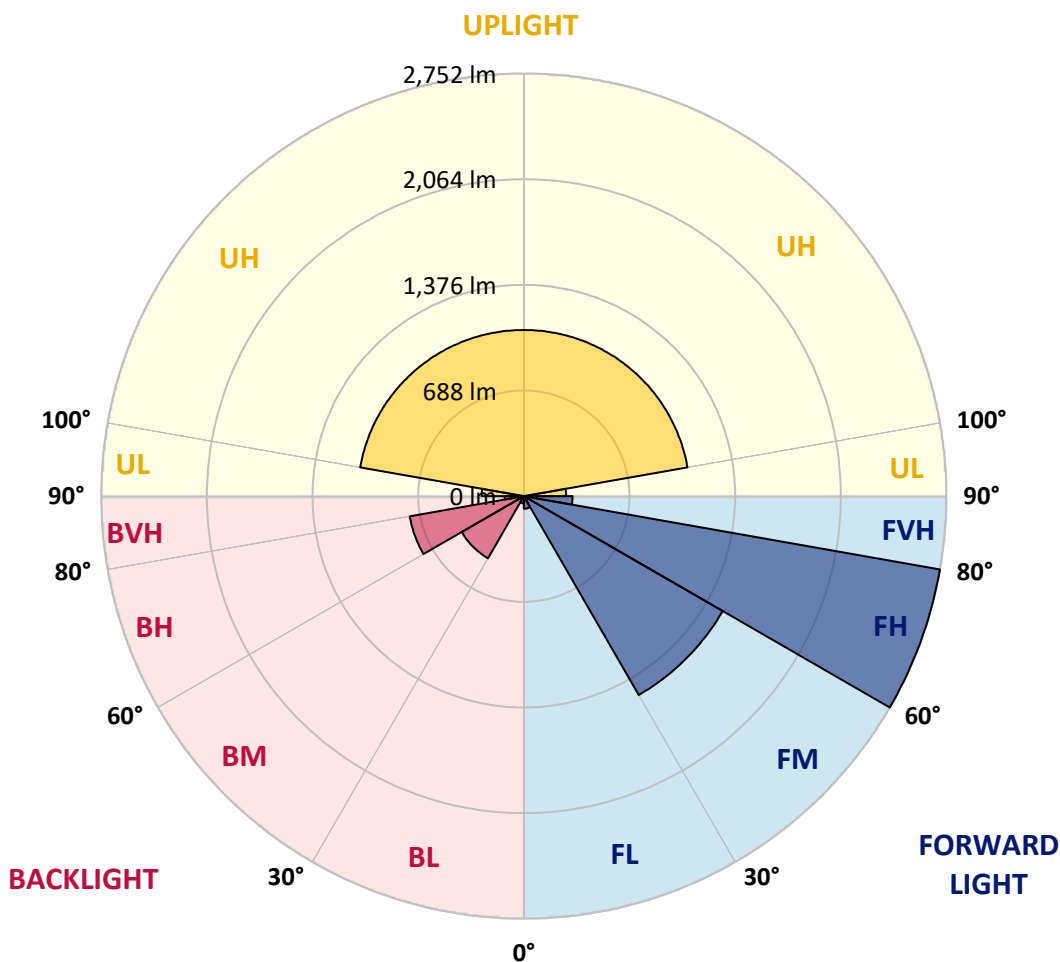


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	82.1	1.1			
FM (30°-60°)	1495.6	20.2			
FH (60°-80°)	2752.0	37.2			G2/5000
FVH (80°-90°)	317.4	4.3			G3/500
BL (0°-30°)	46.8	0.6	B0/110		
BM (30°-60°)	467.1	6.3	B1/1000		
BH (60°-80°)	754.5	10.2	B2/1000		G2/1000
BVH (80°-90°)	125.3	1.7			G2/225
UL (90°-100°)	275.4	3.7		U3/500	
UH (100°-180°)	1082.0	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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	58.7	58.7	60.2	60.2	60.2	58.7	57.9	56.4	56.4	56.4	55.7
5°	76.2	75.5	76.2	78.5	79.3	77.0	75.5	73.2	73.2	72.4	72.4
7.5°	102.9	102.2	100.6	98.3	99.1	101.4	104.4	98.3	96.8	93.0	91.5
10°	128.8	127.3	128.8	125.0	121.2	115.9	118.9	117.4	114.4	110.5	107.5
12.5°	157.1	157.8	160.9	157.8	151.7	143.3	141.8	138.0	134.9	134.2	129.6
15°	186.0	186.8	189.8	189.1	183.0	171.5	167.0	163.2	161.6	157.1	147.1
17.5°	201.3	202.0	202.8	203.6	199.7	190.6	183.7	176.9	174.6	173.1	160.9
20°	208.9	207.4	208.9	211.9	215.0	207.4	200.5	196.7	194.4	189.1	173.1
22.5°	221.1	219.6	218.8	221.1	230.2	224.9	218.0	214.2	211.9	205.1	180.7
25°	234.1	232.5	234.8	233.3	244.7	242.4	235.6	231.8	228.7	220.3	192.1
27.5°	248.5	247.0	249.3	247.8	256.9	258.4	253.9	250.8	246.3	234.1	200.5
30°	260.7	259.2	261.5	260.7	269.9	275.2	272.9	272.2	265.3	250.8	215.0
32.5°	270.6	269.9	275.2	277.5	279.8	292.0	290.5	297.3	289.7	272.2	236.3
35°	293.5	295.8	310.3	325.5	327.8	352.2	355.3	380.4	372.8	349.9	306.5
37.5°	453.6	445.2	430.7	416.3	410.9	458.2	465.1	490.2	471.2	428.5	358.3
40°	483.4	469.6	452.9	441.4	442.9	527.6	513.1	608.4	554.3	490.2	437.6
42.5°	459.0	454.4	513.1	540.5	520.7	644.2	619.8	801.3	739.5	582.5	528.3
45°	575.6	566.5	587.0	614.5	620.6	847.8	831.0	1020.8	995.7	728.1	677.8
47.5°	658.7	650.3	677.8	770.8	850.8	1096.3	1187.8	1461.5	1373.1	1034.6	917.9
50°	908.0	906.5	991.1	1101.6	1241.9	1594.9	1838.1	2145.4	2002.8	1464.5	1258.7
52.5°	1154.3	1157.3	1261.0	1456.9	1602.5	2226.2	2571.5	2786.5	2805.6	1909.8	1631.5
55°	1340.3	1359.3	1484.4	1813.0	2033.3	2788.1	3236.3	3403.3	3593.9	2580.7	2019.6
57.5°	1703.2	1732.1	1851.1	2172.8	2480.8	3487.9	4093.3	4111.6	4395.9	3324.8	2435.8
60°	2020.3	2088.2	2130.1	2422.1	2842.2	4156.5	4729.9	4693.3	4960.1	3941.5	2858.2
62.5°	2118.7	2196.4	2236.1	2547.1	3128.1	4531.6	5027.2	5072.9	5256.7	4374.6	3116.6
65°	2182.7	2274.2	2333.7	2608.9	3131.1	4691.7	5252.8	5301.6	5415.2	4556.0	3245.5
67.5°	2149.9	2266.6	2342.8	2587.5	2966.4	4568.2	5207.9	5114.1	5234.6	4404.3	3101.4
70°	1877.0	1999.0	2076.0	2258.2	2480.0	3840.9	4489.7	4332.6	4438.6	3676.2	2550.2
72.5°	1529.3	1589.6	1636.8	1736.7	1869.4	2833.0	3411.7	3281.3	3344.6	2765.9	1911.3
75°	1256.4	1274.7	1333.4	1390.6	1412.7	2072.2	2702.7	2583.7	2657.7	2105.7	1521.0
77.5°	912.6	923.3	1007.1	1016.3	1010.9	1421.9	2130.1	2025.7	2049.3	1565.2	1135.2
80°	529.9	550.4	660.2	654.9	645.7	876.0	1499.6	1457.7	1384.5	1062.8	786.0
82.5°	373.6	394.2	444.5	455.9	449.8	629.0	973.6	946.1	866.8	739.5	543.6
85°	393.4	395.7	398.0	403.3	393.4	561.1	745.6	731.9	732.7	611.4	448.3
87.5°	388.1	397.2	401.0	403.3	393.4	532.9	693.0	675.5	683.9	580.9	435.3
90°	340.8	357.6	359.1	362.9	357.6	475.7	622.1	605.3	616.0	523.8	396.4
92.5°	278.3	287.4	298.1	312.6	306.5	407.1	529.1	516.9	529.9	453.6	348.4
95°	263.8	273.7	280.6	290.5	281.3	371.3	478.0	453.6	464.3	397.2	300.4
97.5°	218.0	226.4	232.5	236.3	229.5	292.8	366.7	349.9	349.2	307.2	240.2
100°	186.0	191.4	196.7	200.5	194.4	242.4	290.5	284.4	285.9	253.9	206.6
102.5°	176.9	179.9	188.3	189.1	182.2	221.1	261.5	259.2	262.3	234.8	193.6
105°	173.1	175.3	182.2	179.9	173.8	206.6	240.9	242.4	242.4	218.8	181.4
107.5°	161.6	165.4	173.1	169.2	166.2	190.6	221.9	216.5	218.0	203.6	172.3
110°	160.1	163.2	170.8	167.7	165.4	186.0	213.5	211.9	214.2	201.3	176.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	199.0	195.9	202.0	195.9	199.7	217.3	246.3	243.2	250.1	245.5	221.1
115°	245.5	247.0	253.1	240.9	244.7	262.3	278.3	283.6	289.7	282.8	257.7
117.5°	227.2	240.2	232.5	231.0	228.0	241.7	239.4	253.1	259.2	253.9	244.0
120°	243.2	259.2	237.1	225.7	221.1	255.4	272.2	271.4	266.8	256.2	235.6
122.5°	363.7	365.9	367.5	401.8	389.6	423.1	433.0	420.1	420.1	433.8	391.9
125°	567.2	569.5	568.0	583.2	574.8	606.9	619.8	619.1	611.4	604.6	563.4
127.5°	573.3	573.3	568.0	559.6	567.2	598.5	599.2	628.2	618.3	600.0	561.9
130°	400.3	403.3	422.4	428.5	439.1	446.0	438.4	463.5	468.1	465.1	439.1
132.5°	331.6	337.0	357.6	365.2	372.0	372.8	369.8	389.6	394.2	394.2	382.7
135°	286.7	292.8	295.0	291.2	301.1	308.8	314.9	330.9	329.4	326.3	316.4
137.5°	250.1	252.4	245.5	237.1	242.4	264.5	276.7	293.5	292.8	287.4	270.6
140°	211.2	211.9	208.1	204.3	209.7	228.7	240.2	258.4	256.2	252.4	232.5
142.5°	160.1	162.4	172.3	179.9	192.9	232.5	226.4	242.4	253.9	263.0	217.3
145°	168.5	165.4	163.9	172.3	189.1	246.3	228.7	249.3	254.6	260.7	208.1
147.5°	194.4	195.9	193.6	188.3	211.2	229.5	219.6	237.9	240.9	239.4	218.0
150°	152.5	154.8	155.5	153.2	181.4	180.7	170.8	184.5	186.0	186.0	171.5
152.5°	124.3	125.0	123.5	122.0	140.3	137.2	132.7	137.2	136.5	135.7	132.7
155°	118.2	118.2	116.6	117.4	129.6	126.6	123.5	126.6	125.0	122.7	119.7
157.5°	109.0	109.8	109.8	112.1	119.7	114.4	111.3	112.8	111.3	109.8	109.8
160°	102.9	102.9	103.7	106.7	111.3	106.0	103.7	104.4	103.7	102.2	102.9
162.5°	100.6	100.6	101.4	102.9	103.7	100.6	98.3	98.3	98.3	98.3	100.6
165°	99.1	99.1	99.1	99.9	99.9	97.6	96.8	97.6	98.3	99.1	102.2
167.5°	102.2	102.2	102.2	102.2	101.4	99.9	99.1	99.9	100.6	101.4	103.7
170°	106.7	106.0	106.0	105.2	104.4	102.9	102.2	101.4	101.4	102.2	102.9
172.5°	109.8	109.8	109.0	109.0	108.3	106.7	105.2	104.4	104.4	104.4	104.4
175°	113.6	113.6	113.6	113.6	112.8	111.3	110.5	109.0	109.0	109.0	109.0
177.5°	118.2	118.2	118.2	118.2	116.6	115.1	113.6	112.1	112.1	112.1	111.3
180°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	54.9	54.1	51.8	51.1	50.3	48.8	47.3	46.5	45.7	45.7	46.5
5°	73.2	72.4	72.4	70.1	67.9	64.0	62.5	62.5	63.3	64.0	65.6
7.5°	92.2	93.8	95.3	91.5	84.6	75.5	70.1	71.7	75.5	78.5	78.5
10°	106.7	106.7	112.1	107.5	96.1	84.6	77.0	75.5	76.2	77.0	77.8
12.5°	127.3	127.3	124.3	112.1	100.6	89.2	83.1	81.6	81.6	78.5	77.8
15°	142.6	138.0	127.3	115.9	106.0	94.5	87.7	85.4	83.1	80.8	80.1
17.5°	151.7	143.3	128.8	118.2	108.3	99.1	92.2	87.7	85.4	86.1	86.1
20°	162.4	153.2	140.3	128.8	116.6	104.4	96.1	89.2	86.9	87.7	86.9
22.5°	170.8	161.6	148.7	135.7	122.7	109.8	99.9	91.5	88.4	89.2	89.2
25°	180.7	173.1	159.3	144.1	128.1	115.9	106.0	96.1	91.5	90.7	90.7
27.5°	190.6	185.3	170.8	152.5	135.7	121.2	111.3	99.9	94.5	92.2	92.2
30°	203.6	197.5	183.0	160.9	142.6	128.8	118.2	106.0	98.3	94.5	93.8
32.5°	224.1	217.3	199.7	176.1	150.2	136.5	125.0	111.3	101.4	96.8	96.1
35°	291.2	280.6	253.1	225.7	183.7	152.5	133.4	115.9	104.4	98.3	97.6
37.5°	333.2	307.2	270.6	252.4	206.6	186.8	160.9	132.7	109.0	101.4	99.9
40°	401.0	365.2	319.4	283.6	201.3	204.3	188.3	165.4	129.6	106.7	104.4
42.5°	458.2	413.2	343.8	297.3	202.0	213.5	201.3	182.2	155.5	126.6	122.0
45°	564.9	507.0	399.5	319.4	207.4	227.2	211.9	192.1	168.5	148.7	146.4
47.5°	763.1	684.6	499.4	356.0	242.4	263.8	236.3	210.4	189.1	166.2	162.4
50°	1044.5	950.7	614.5	385.0	302.7	347.6	298.1	254.6	230.2	213.5	211.2
52.5°	1368.5	1270.1	699.1	438.4	375.9	451.3	394.2	343.8	311.8	311.8	316.4
55°	1745.1	1646.8	767.0	512.3	465.8	565.7	503.9	462.8	447.5	512.3	529.9
57.5°	2118.7	1993.6	812.7	587.8	571.0	699.9	625.9	590.9	619.1	811.2	870.6
60°	2459.5	2252.9	848.5	659.5	661.0	806.6	751.7	749.4	792.9	1038.4	1113.8
62.5°	2656.2	2374.8	846.2	700.6	713.6	872.9	827.2	839.4	863.8	1076.5	1133.7
65°	2791.1	2432.8	828.7	718.9	735.7	896.6	839.4	818.8	802.8	953.0	1007.9
67.5°	2698.1	2297.1	789.1	692.2	722.0	862.3	786.8	728.1	696.8	773.1	810.4
70°	2259.7	1915.9	698.3	622.9	650.3	726.6	654.1	596.2	563.4	604.6	622.1
72.5°	1711.6	1457.7	629.7	582.5	570.3	600.8	532.1	467.3	447.5	474.2	478.0
75°	1363.1	1140.5	579.4	526.8	478.8	508.5	424.6	346.1	334.7	334.7	328.6
77.5°	1022.4	845.5	494.0	410.2	353.0	401.8	316.4	240.9	225.7	222.6	214.2
80°	685.4	575.6	332.4	272.2	253.9	298.1	224.9	176.9	177.6	176.9	167.0
82.5°	478.8	444.5	269.9	237.1	217.3	234.8	203.6	170.0	168.5	170.0	159.3
85°	424.6	407.1	261.5	244.7	224.1	226.4	195.2	160.9	161.6	164.7	155.5
87.5°	407.9	388.1	262.3	236.3	218.8	209.7	176.9	148.7	153.2	156.3	148.7
90°	367.5	347.6	240.9	213.5	195.2	182.2	156.3	141.0	147.1	150.2	143.3
92.5°	318.7	298.1	200.5	188.3	183.7	183.7	163.9	150.2	154.0	155.5	149.4
95°	274.5	254.6	178.4	165.4	161.6	162.4	146.4	134.9	137.2	136.5	131.9
97.5°	221.9	209.7	155.5	147.1	143.3	141.8	131.1	122.7	127.3	130.4	126.6
100°	195.9	189.8	150.2	144.1	138.8	138.0	128.8	123.5	127.3	131.9	128.8
102.5°	183.0	178.4	143.3	134.9	131.1	129.6	123.5	117.4	121.2	125.8	123.5
105°	172.3	165.4	137.2	129.6	124.3	123.5	117.4	109.8	112.1	118.2	116.6
107.5°	163.2	158.6	136.5	128.1	121.2	121.2	114.4	108.3	109.0	111.3	111.3
110°	170.8	165.4	141.8	135.7	126.6	123.5	122.0	117.4	113.6	112.1	112.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	211.2	201.3	177.6	170.8	155.5	144.9	134.9	125.8	119.7	117.4	115.9
115°	249.3	237.9	209.7	192.1	171.5	155.5	141.8	131.9	122.7	119.7	122.7
117.5°	256.9	226.4	183.0	168.5	156.3	146.4	138.8	131.1	124.3	126.6	124.3
120°	254.6	217.3	184.5	205.1	184.5	161.6	143.3	143.3	141.0	129.6	131.9
122.5°	391.9	365.9	326.3	314.1	256.2	234.1	199.7	170.8	142.6	126.6	118.9
125°	536.7	511.6	450.6	404.1	346.1	285.1	218.8	168.5	131.9	116.6	118.9
127.5°	539.8	516.9	459.0	380.4	304.2	244.0	182.2	149.4	128.8	118.9	117.4
130°	420.8	398.7	349.2	288.9	240.9	201.3	163.9	134.9	116.6	109.0	106.7
132.5°	364.4	344.6	298.9	244.0	208.9	177.6	146.4	117.4	105.2	99.9	100.6
135°	306.5	282.8	239.4	209.7	187.5	159.3	131.1	107.5	101.4	99.9	99.1
137.5°	260.0	243.2	212.7	189.8	168.5	143.3	115.1	100.6	98.3	99.9	98.3
140°	221.1	207.4	190.6	170.8	144.9	121.2	102.9	96.1	99.9	100.6	99.9
142.5°	190.6	176.9	159.3	132.7	120.5	109.8	105.2	99.9	99.9	99.1	98.3
145°	159.3	141.0	132.7	136.5	128.8	118.2	109.8	99.1	95.3	95.3	96.1
147.5°	183.0	163.9	153.2	144.9	130.4	115.1	102.2	92.2	90.7	93.8	93.0
150°	157.8	140.3	132.7	121.2	112.1	100.6	92.2	88.4	89.2	93.0	93.0
152.5°	125.8	113.6	109.0	106.0	101.4	94.5	90.0	88.4	90.0	91.5	91.5
155°	118.2	111.3	106.0	103.7	98.3	93.0	89.2	88.4	90.0	91.5	93.0
157.5°	110.5	108.3	101.4	99.1	94.5	92.2	90.0	90.0	90.7	92.2	93.8
160°	105.2	104.4	98.3	97.6	94.5	93.0	93.0	93.8	94.5	94.5	94.5
162.5°	102.2	102.2	99.9	98.3	97.6	96.8	99.1	99.9	99.1	99.1	99.1
165°	102.9	103.7	101.4	99.9	99.1	100.6	104.4	104.4	102.9	102.2	101.4
167.5°	103.7	104.4	102.9	102.2	102.2	103.7	105.2	104.4	103.7	102.9	102.2
170°	102.9	103.7	103.7	104.4	104.4	104.4	106.0	106.0	104.4	103.7	103.7
172.5°	104.4	105.2	106.0	106.7	107.5	106.7	107.5	107.5	107.5	107.5	108.3
175°	109.0	109.0	109.8	109.8	109.0	109.8	109.8	109.8	110.5	112.1	112.1
177.5°	111.3	111.3	110.5	110.5	109.8	110.5	110.5	110.5	110.5	111.3	110.5
180°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8

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: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

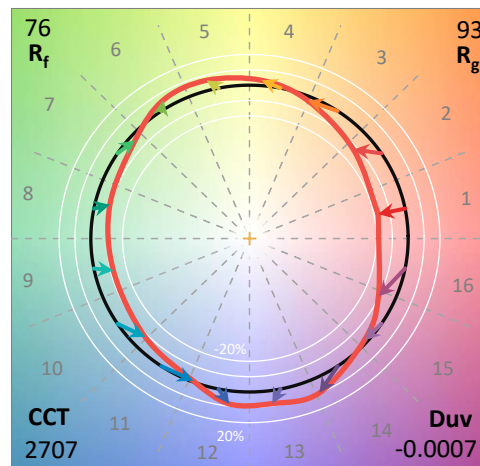
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-3
 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-100-727-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2707
 CIE u': 0.2624
 CIE v': 0.5261
 Duv: -0.0007
 CIE x: 0.4580
 CIE y: 0.4082
 CIE z: 0.1338
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 584
 Purity: 59.99901
 Rf: 75.5
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions

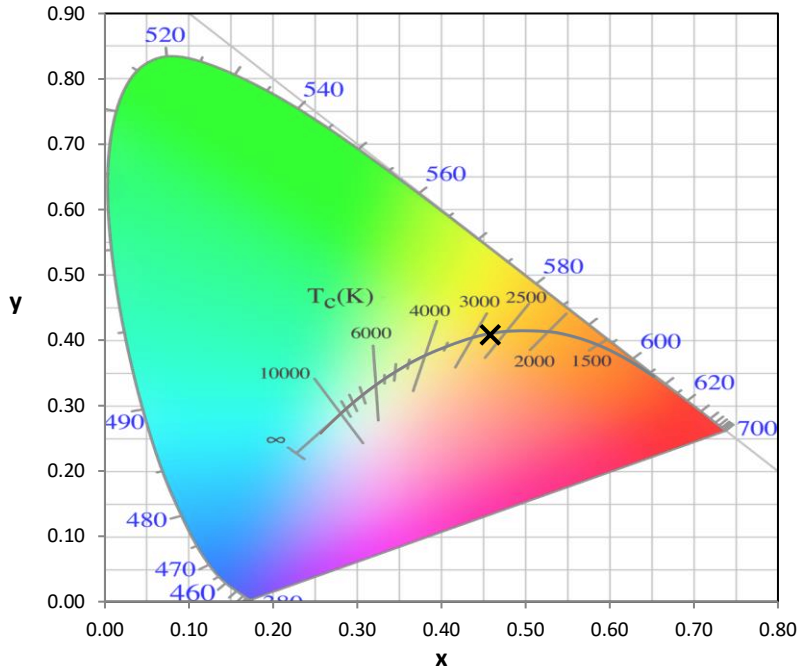
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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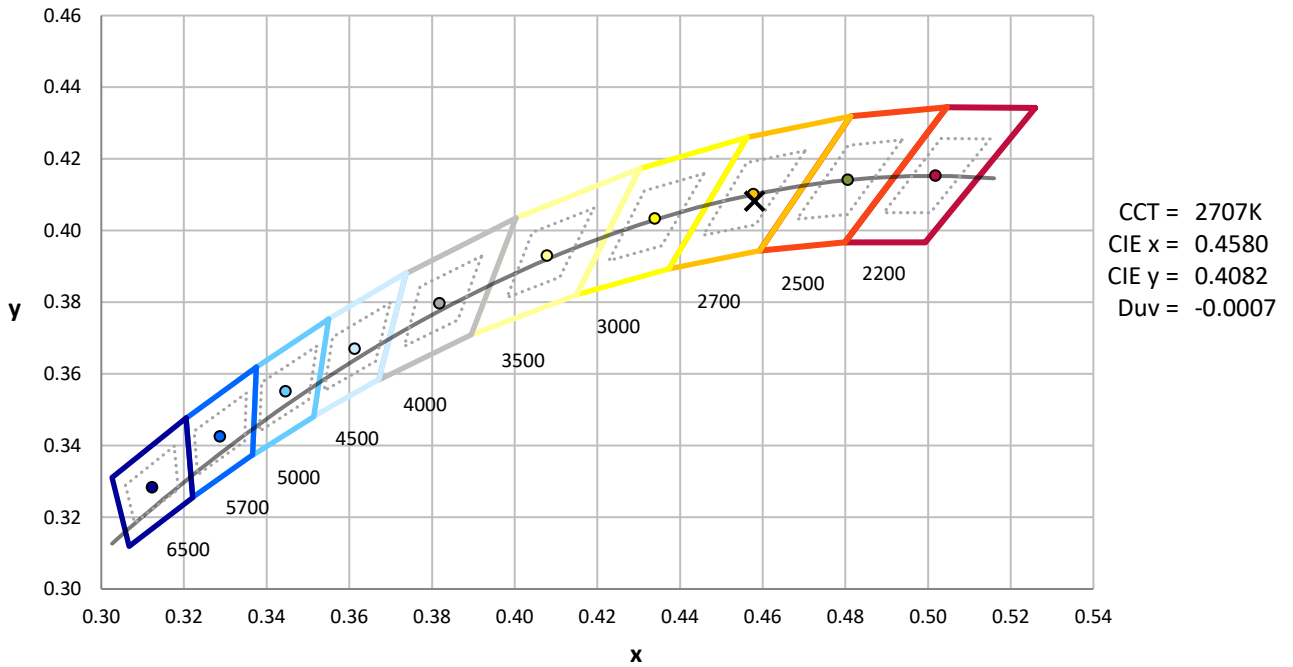
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



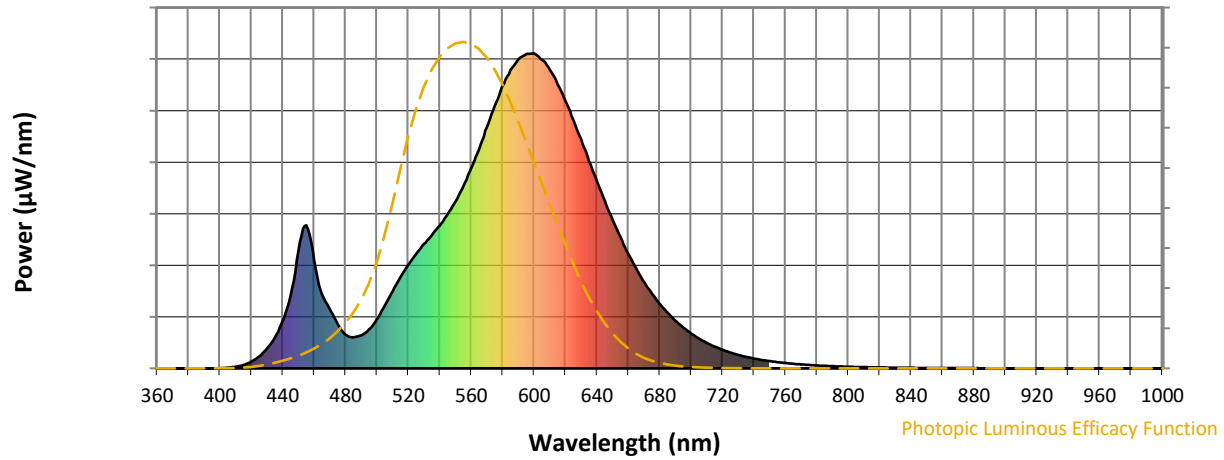
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

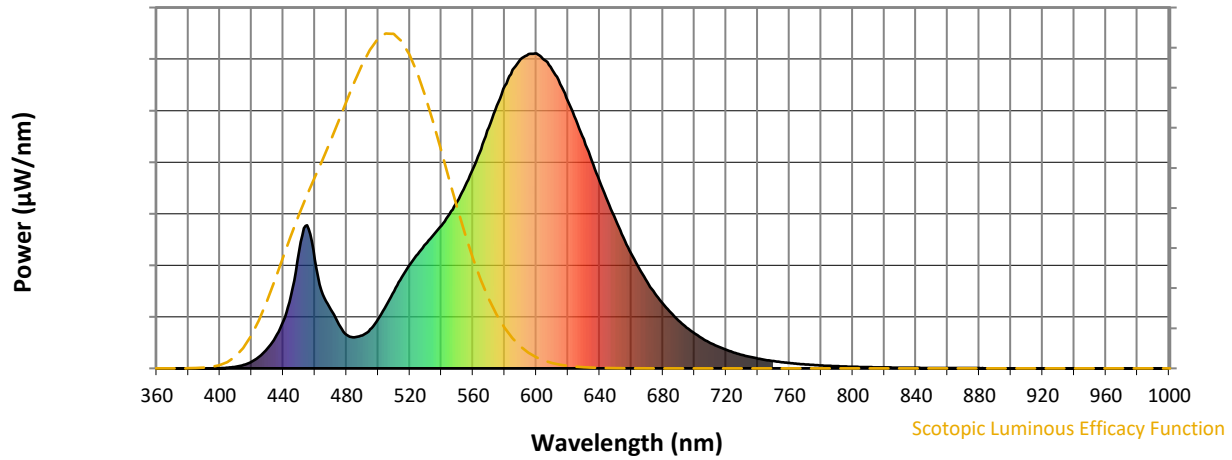


Photopic Lumens: NR

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



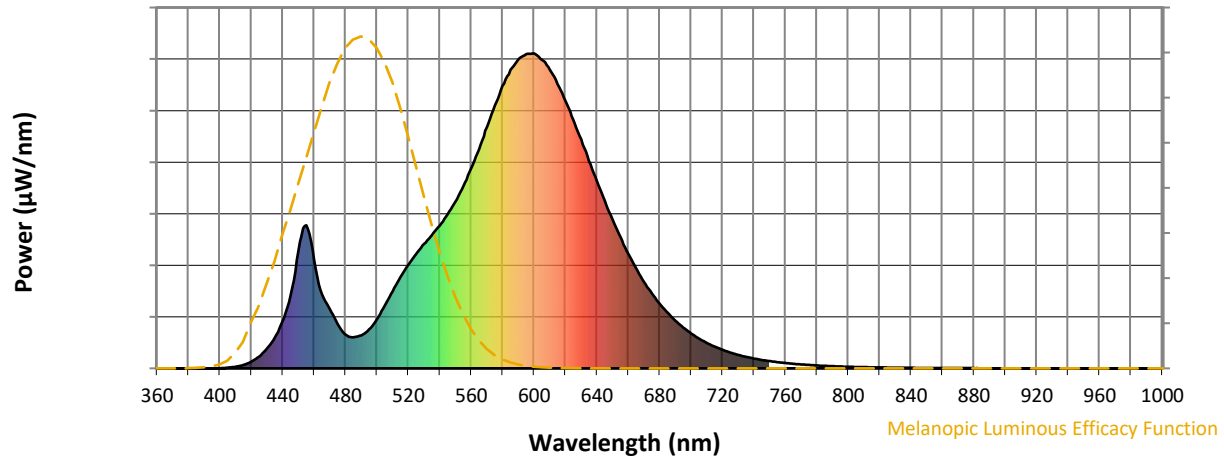
Scotopic Lumens: NR

S/P: 1.12

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

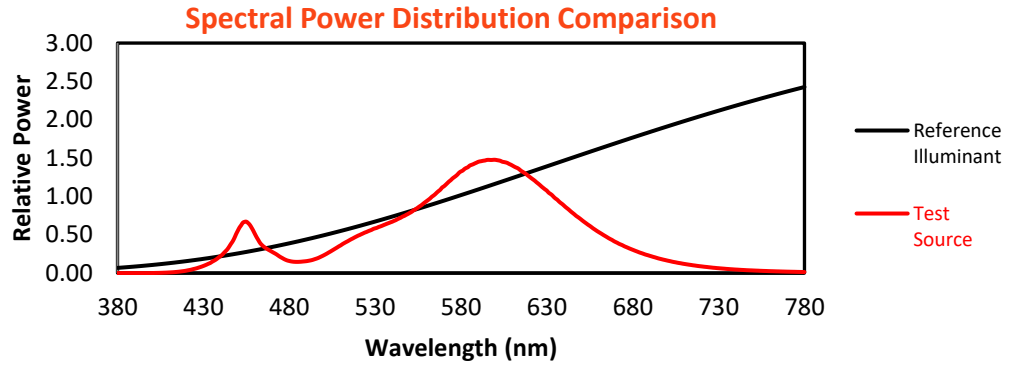
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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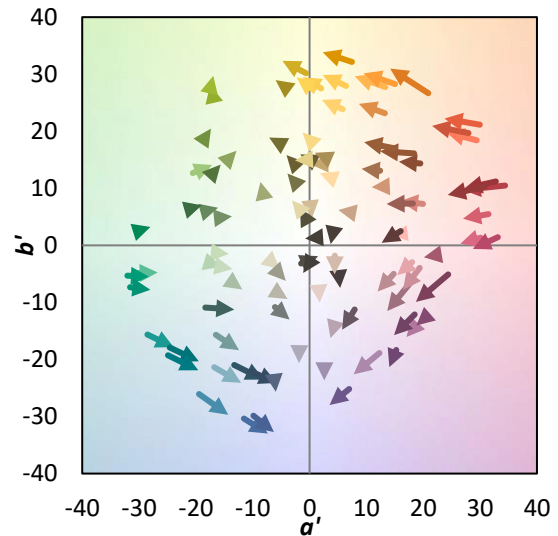
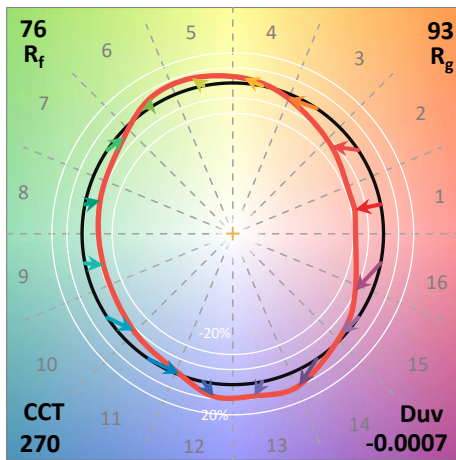
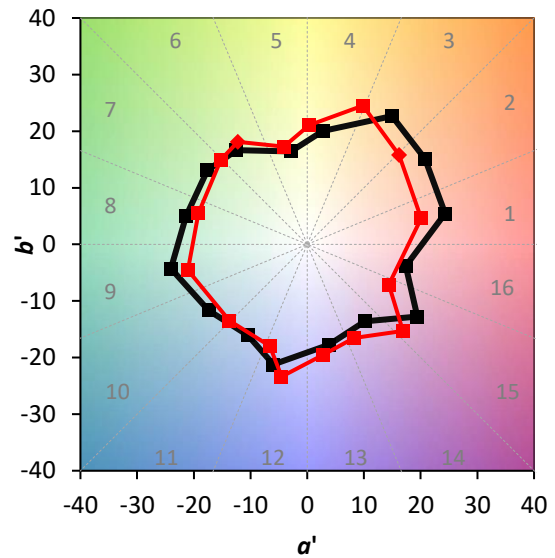
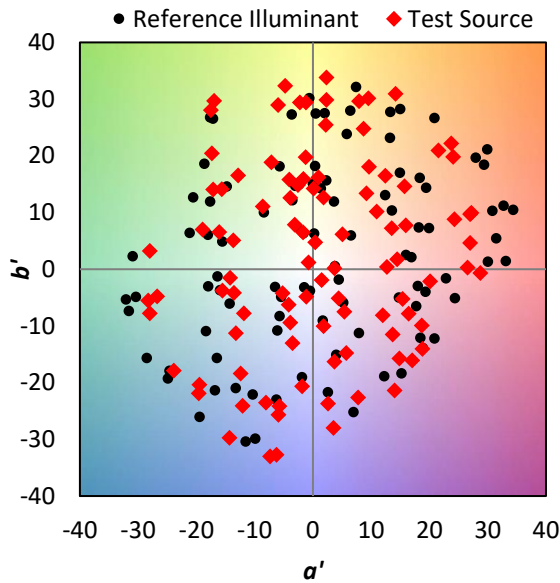
TM-30-18

Summary

$R_f = 75.5$
 $R_g = 92.5$
 CIE $R_a = 71.3$
 $R_9 = -34.9$



Color Vector Graphics

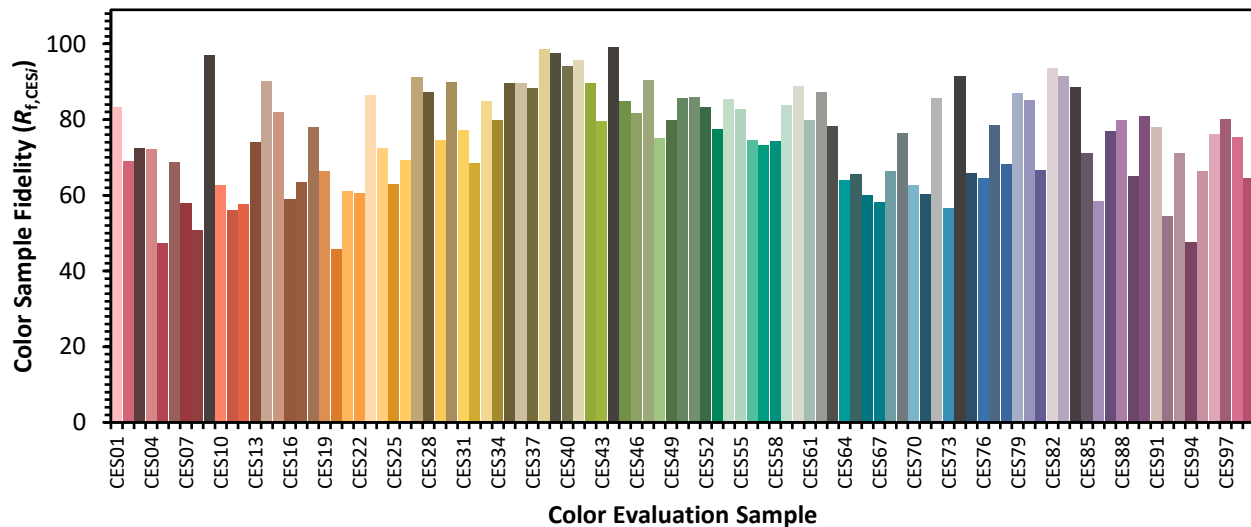


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TM-30-18

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

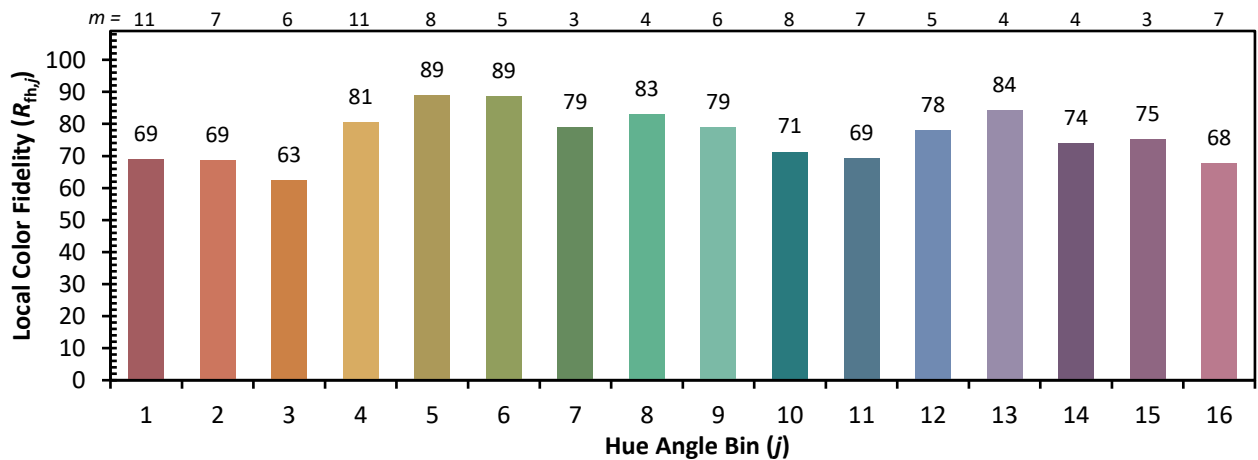
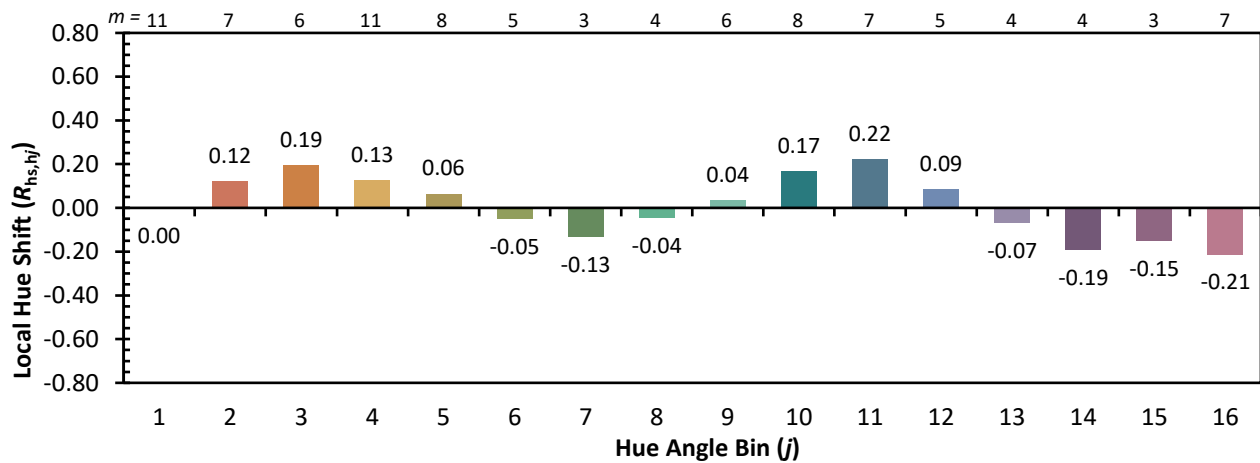
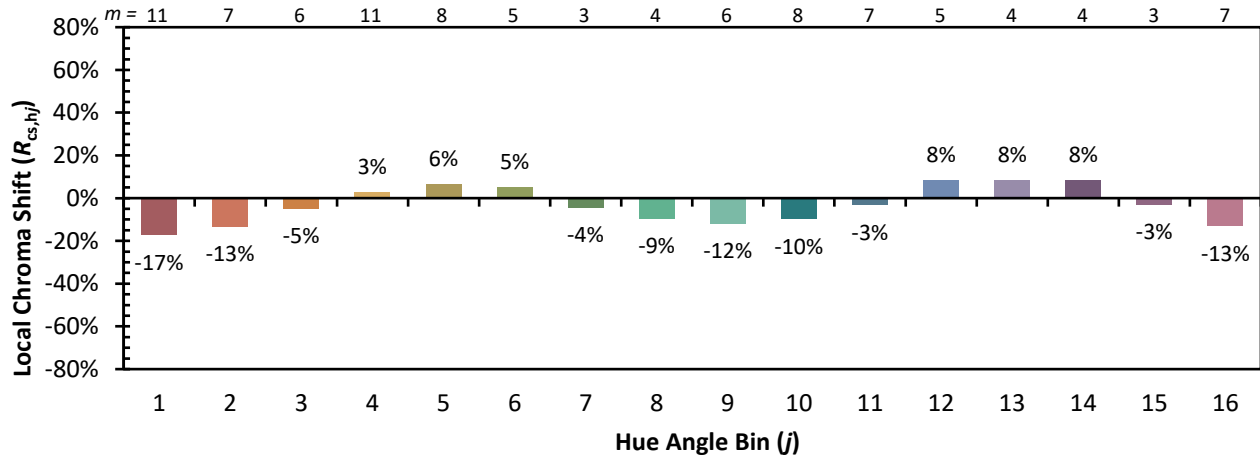
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



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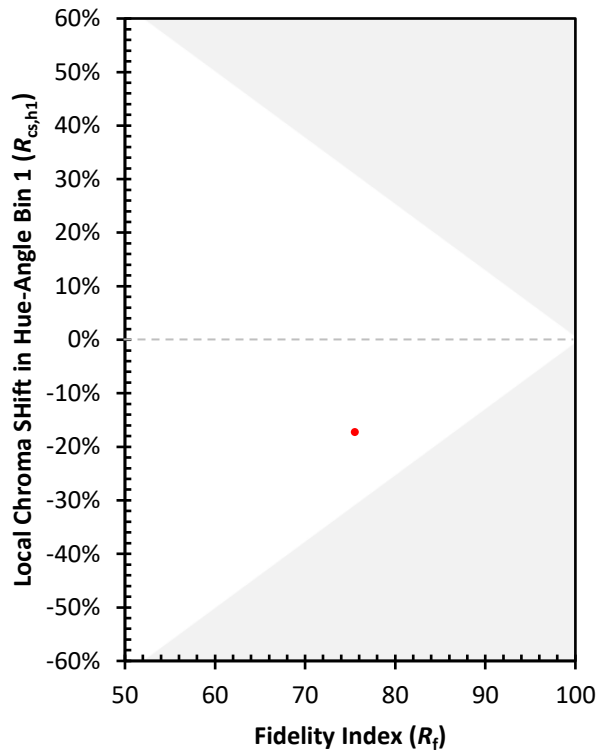
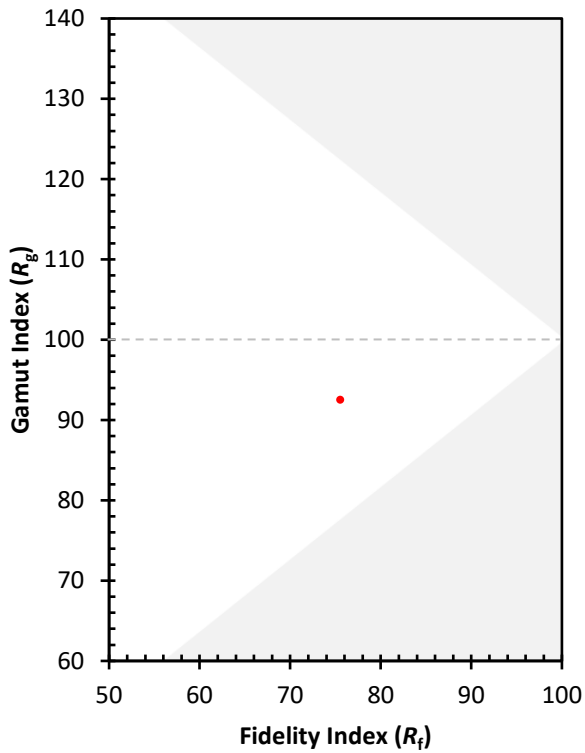
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)