

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: P856113

Luminaire Tested: **FFX-CLB-70-727-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856113
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-727-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

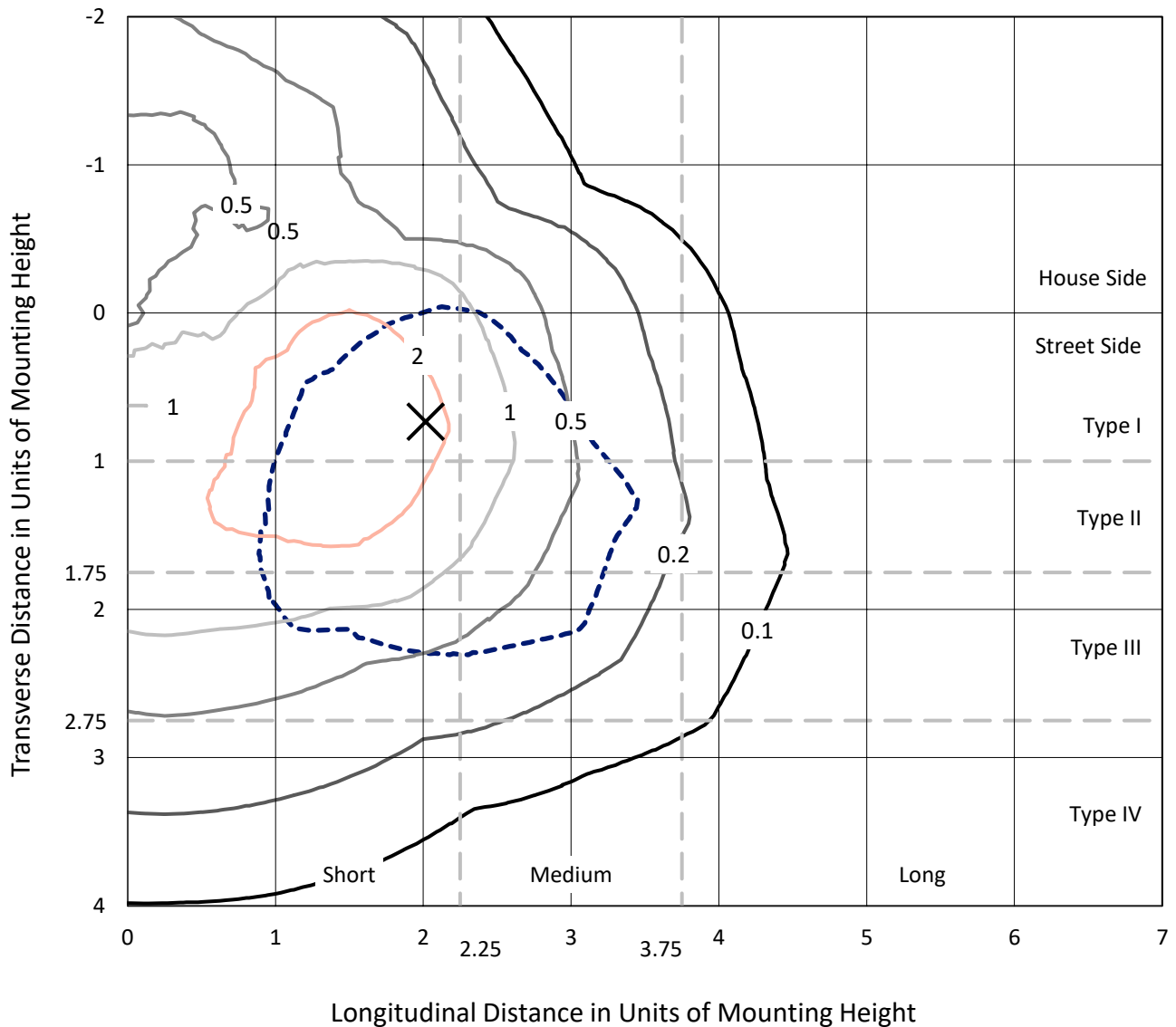
Lumens per Lamp: N/A
Luminaire Lumens: 10149.7 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G3

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

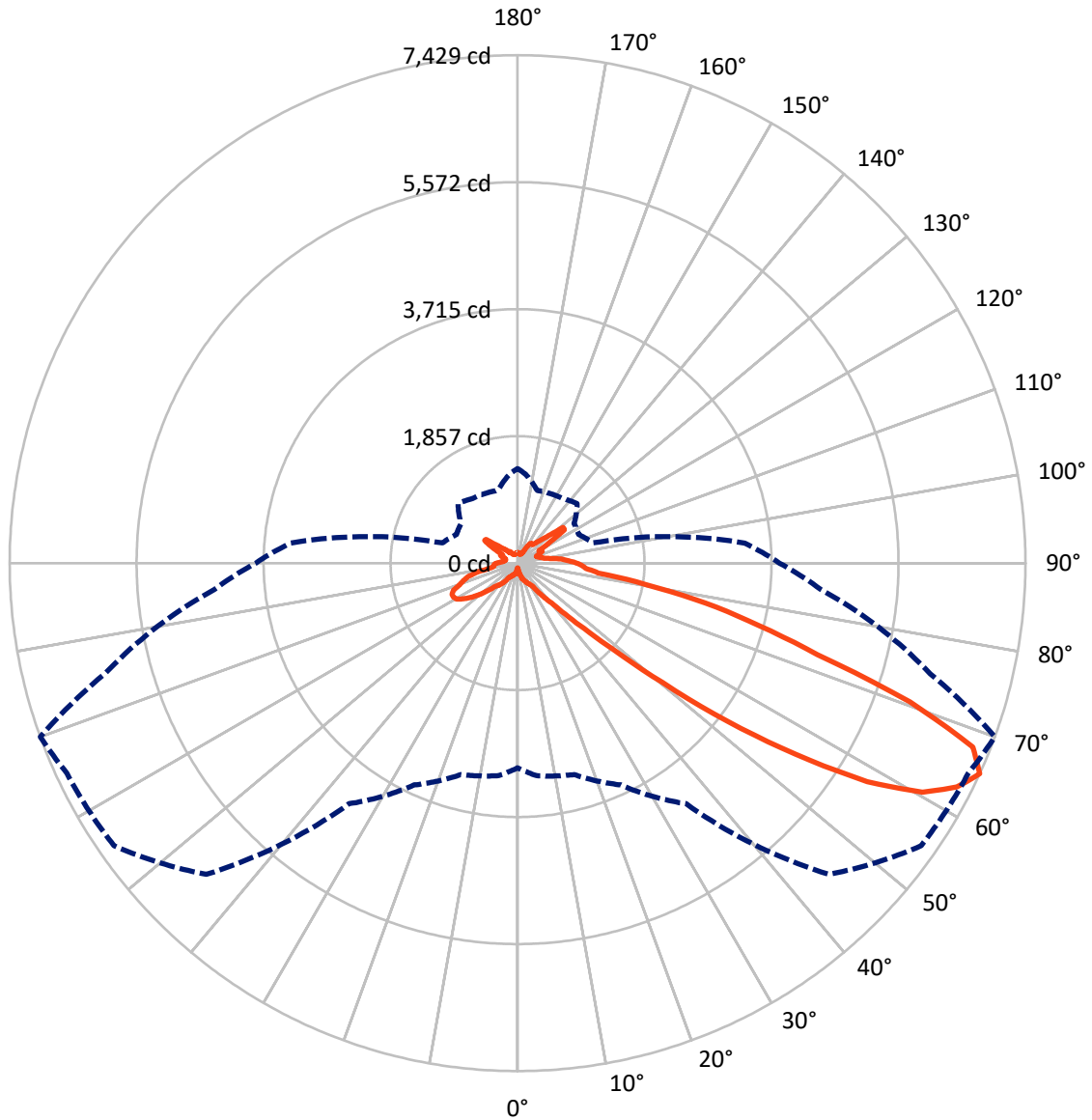
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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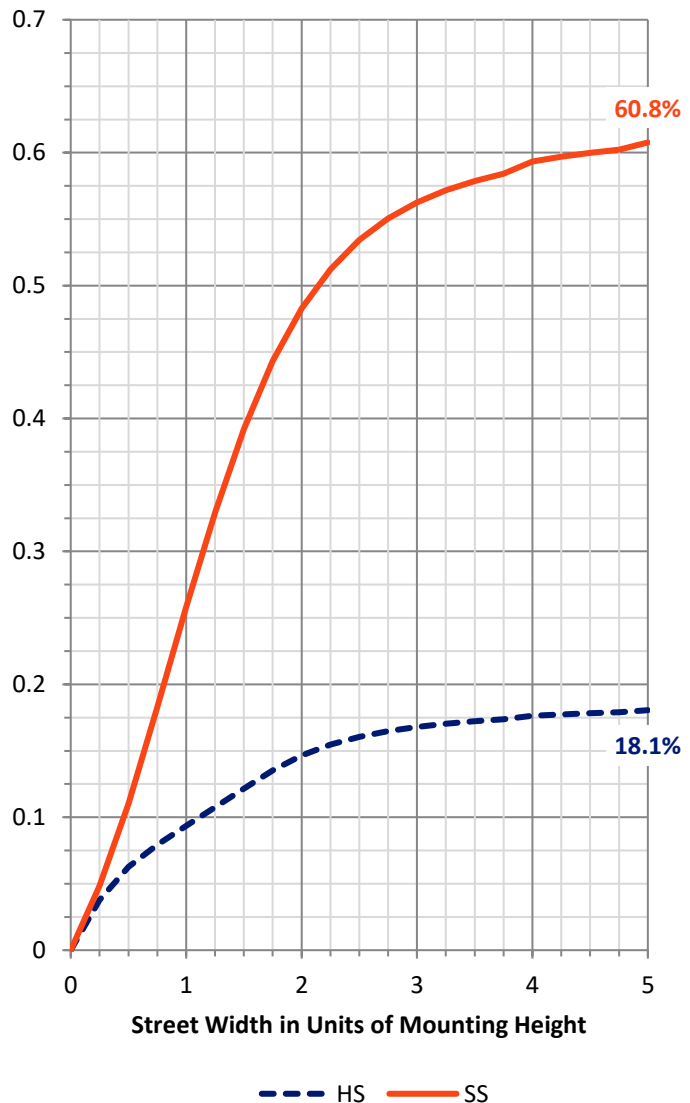
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.9	682.1	2594.0
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	6375.5	1180.3	7555.8
	% Fixture	62.8	11.6	74.4
Total	Lumens	8287.4	1862.3	10149.7
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.1
10°-20°	53.2	0.5
20°-30°	112.9	1.1
30°-40°	229.9	2.3
40°-50°	584.5	5.8
50°-60°	1878.4	18.5
60°-70°	3065.5	30.2
70°-80°	1745.2	17.2
80°-90°	607.2	6.0
90°-100°	377.9	3.7
100°-110°	240.7	2.4
110°-120°	264.8	2.6
120°-130°	447.7	4.4
130°-140°	263.9	2.6
140°-150°	142.1	1.4
150°-160°	71.8	0.7
160°-170°	39.3	0.4
170°-180°	14.2	0.1
0°-90°	8287.4	81.7
0°-180°	10149.7	100.0

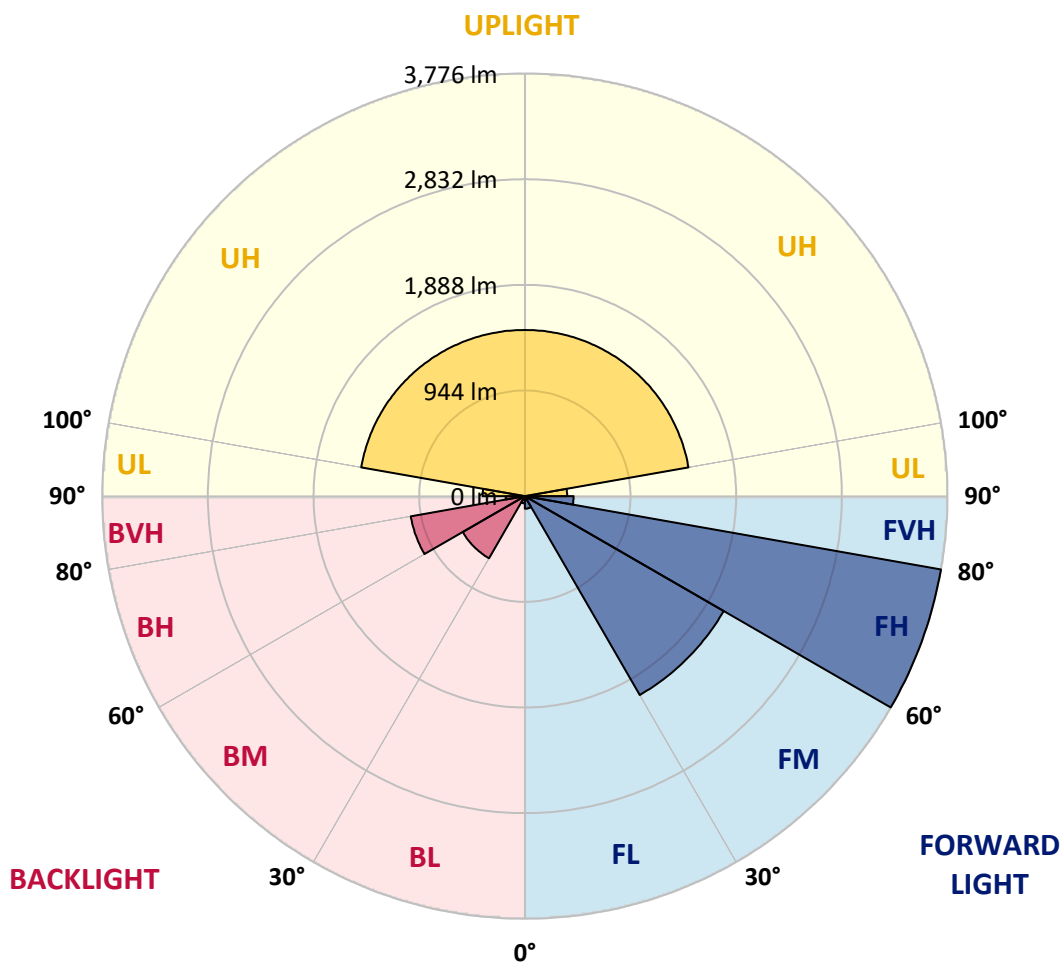


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.7	1.1			
FM (30°-60°)	2051.9	20.2			
FH (60°-80°)	3775.6	37.2			G2/5000
FVH (80°-90°)	435.4	4.3			G3/500
BL (0°-30°)	64.2	0.6	B0/110		
BM (30°-60°)	640.8	6.3	B1/1000		
BH (60°-80°)	1035.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	171.8	1.7			G2/225
UL (90°-100°)	377.9	3.7		U3/500	
UH (100°-180°)	1484.4	14.6		U5	

BUG Rating: B3-U5-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	80.5	80.5	82.6	82.6	82.6	80.5	79.5	77.4	77.4	77.4	76.4
5°	104.6	103.5	104.6	107.7	108.8	105.6	103.5	100.4	100.4	99.4	99.4
7.5°	141.2	140.2	138.1	134.9	136.0	139.1	143.3	134.9	132.8	127.6	125.5
10°	176.8	174.7	176.8	171.5	166.3	159.0	163.2	161.1	156.9	151.7	147.5
12.5°	215.5	216.5	220.7	216.5	208.1	196.6	194.5	189.3	185.1	184.1	177.8
15°	255.2	256.3	260.4	259.4	251.0	235.3	229.1	223.8	221.7	215.5	201.9
17.5°	276.1	277.2	278.2	279.3	274.0	261.5	252.1	242.7	239.5	237.4	220.7
20°	286.6	284.5	286.6	290.8	295.0	284.5	275.1	269.8	266.7	259.4	237.4
22.5°	303.3	301.2	300.2	303.3	315.9	308.5	299.1	293.9	290.8	281.4	247.9
25°	321.1	319.0	322.1	320.1	335.7	332.6	323.2	318.0	313.8	302.3	263.6
27.5°	341.0	338.9	342.0	339.9	352.5	354.6	348.3	344.1	337.8	321.1	275.1
30°	357.7	355.6	358.8	357.7	370.3	377.6	374.4	373.4	364.0	344.1	295.0
32.5°	371.3	370.3	377.6	380.7	383.9	400.6	398.5	407.9	397.5	373.4	324.2
35°	402.7	405.8	425.7	446.6	449.7	483.2	487.4	521.9	511.5	480.1	420.5
37.5°	622.3	610.8	590.9	571.1	563.8	628.6	638.0	672.5	646.4	587.8	491.6
40°	663.1	644.3	621.3	605.6	607.7	723.8	703.9	834.6	760.4	672.5	600.4
42.5°	629.6	623.4	703.9	741.6	714.4	883.8	850.3	1099.3	1014.5	799.1	724.8
45°	789.7	777.1	805.4	843.0	851.4	1163.1	1140.1	1400.5	1366.0	998.9	929.8
47.5°	903.7	892.2	929.8	1057.4	1167.3	1504.0	1629.6	2005.0	1883.7	1419.3	1259.3
50°	1245.7	1243.6	1359.7	1511.4	1703.8	2188.1	2521.7	2943.2	2747.7	2009.2	1726.8
52.5°	1583.5	1587.7	1730.0	1998.8	2198.5	3054.1	3527.9	3822.9	3849.0	2620.0	2238.3
55°	1838.7	1864.9	2036.4	2487.2	2789.5	3825.0	4440.0	4669.0	4930.5	3540.5	2770.7
57.5°	2336.6	2376.3	2539.5	2980.9	3403.4	4785.1	5615.6	5640.7	6030.8	4561.3	3341.7
60°	2771.7	2864.8	2922.3	3322.9	3899.2	5702.4	6488.9	6438.7	6804.8	5407.4	3921.2
62.5°	2906.6	3013.3	3067.7	3494.4	4291.4	6217.0	6896.8	6959.6	7211.7	6001.5	4275.8
65°	2994.5	3120.0	3201.6	3579.2	4295.6	6436.6	7206.4	7273.4	7429.2	6250.5	4452.5
67.5°	2949.5	3109.5	3214.1	3549.9	4069.7	6267.2	7144.7	7016.1	7181.3	6042.3	4254.8
70°	2575.1	2742.4	2848.1	3098.0	3402.4	5269.4	6159.5	5944.0	6089.4	5043.5	3498.6
72.5°	2098.1	2180.8	2245.6	2382.6	2564.6	3886.7	4680.5	4501.7	4588.5	3794.6	2622.1
75°	1723.7	1748.8	1829.3	1907.8	1938.1	2842.8	3707.8	3544.6	3646.1	2888.9	2086.6
77.5°	1252.0	1266.6	1381.7	1394.2	1386.9	1950.7	2922.3	2779.0	2811.5	2147.3	1557.4
80°	726.9	755.2	905.8	898.5	885.9	1201.8	2057.3	1999.8	1899.4	1458.0	1078.4
82.5°	512.5	540.7	609.8	625.5	617.1	862.9	1335.6	1298.0	1189.2	1014.5	745.7
85°	539.7	542.8	546.0	553.3	539.7	769.8	1022.9	1004.1	1005.1	838.8	615.0
87.5°	532.4	544.9	550.2	553.3	539.7	731.1	950.7	926.7	938.2	797.0	597.2
90°	467.5	490.5	492.6	497.9	490.5	652.7	853.5	830.5	845.1	718.6	543.9
92.5°	381.8	394.3	409.0	428.8	420.5	558.5	725.9	709.1	726.9	622.3	478.0
95°	361.9	375.5	384.9	398.5	385.9	509.4	655.8	622.3	637.0	544.9	412.1
97.5°	299.1	310.6	319.0	324.2	314.8	401.6	503.1	480.1	479.0	421.5	329.5
100°	255.2	262.5	269.8	275.1	266.7	332.6	398.5	390.1	392.2	348.3	283.4
102.5°	242.7	246.8	258.3	259.4	250.0	303.3	358.8	355.6	359.8	322.1	265.7
105°	237.4	240.6	250.0	246.8	238.5	283.4	330.5	332.6	332.6	300.2	248.9
107.5°	221.7	227.0	237.4	232.2	228.0	261.5	304.4	297.0	299.1	279.3	236.4
110°	219.6	223.8	234.3	230.1	227.0	255.2	292.9	290.8	293.9	276.1	242.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	273.0	268.8	277.2	268.8	274.0	298.1	337.8	333.7	343.1	336.8	303.3
115°	336.8	338.9	347.2	330.5	335.7	359.8	381.8	389.1	397.5	388.0	353.5
117.5°	311.7	329.5	319.0	316.9	312.7	331.6	328.4	347.2	355.6	348.3	334.7
120°	333.7	355.6	325.3	309.6	303.3	350.4	373.4	372.4	366.1	351.4	323.2
122.5°	498.9	502.0	504.1	551.2	534.5	580.5	594.1	576.3	576.3	595.1	537.6
125°	778.2	781.3	779.2	800.1	788.6	832.6	850.3	849.3	838.8	829.4	772.9
127.5°	786.5	786.5	779.2	767.7	778.2	821.1	822.1	861.8	848.2	823.1	770.8
130°	549.1	553.3	579.4	587.8	602.5	611.9	601.4	635.9	642.2	638.0	602.5
132.5°	455.0	462.3	490.5	501.0	510.4	511.5	507.3	534.5	540.7	540.7	525.1
135°	393.3	401.6	404.8	399.5	413.1	423.6	432.0	453.9	451.8	447.7	434.1
137.5°	343.1	346.2	336.8	325.3	332.6	362.9	379.7	402.7	401.6	394.3	371.3
140°	289.7	290.8	285.5	280.3	287.6	313.8	329.5	354.6	351.4	346.2	319.0
142.5°	219.6	222.8	236.4	246.8	264.6	319.0	310.6	332.6	348.3	360.8	298.1
145°	231.1	227.0	224.9	236.4	259.4	337.8	313.8	342.0	349.3	357.7	285.5
147.5°	266.7	268.8	265.7	258.3	289.7	314.8	301.2	326.3	330.5	328.4	299.1
150°	209.2	212.3	213.4	210.2	248.9	247.9	234.3	253.1	255.2	255.2	235.3
152.5°	170.5	171.5	169.4	167.3	192.5	188.3	182.0	188.3	187.2	186.2	182.0
155°	162.1	162.1	160.0	161.1	177.8	173.6	169.4	173.6	171.5	168.4	164.2
157.5°	149.6	150.6	150.6	153.8	164.2	156.9	152.7	154.8	152.7	150.6	150.6
160°	141.2	141.2	142.2	146.4	152.7	145.4	142.2	143.3	142.2	140.2	141.2
162.5°	138.1	138.1	139.1	141.2	142.2	138.1	134.9	134.9	134.9	134.9	138.1
165°	136.0	136.0	136.0	137.0	137.0	133.9	132.8	133.9	134.9	136.0	140.2
167.5°	140.2	140.2	140.2	140.2	139.1	137.0	136.0	137.0	138.1	139.1	142.2
170°	146.4	145.4	145.4	144.3	143.3	141.2	140.2	139.1	139.1	140.2	141.2
172.5°	150.6	150.6	149.6	149.6	148.5	146.4	144.3	143.3	143.3	143.3	143.3
175°	155.8	155.8	155.8	155.8	154.8	152.7	151.7	149.6	149.6	149.6	149.6
177.5°	162.1	162.1	162.1	162.1	160.0	157.9	155.8	153.8	153.8	153.8	152.7
180°	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	75.3	74.3	71.1	70.1	69.0	66.9	64.8	63.8	62.8	62.8	63.8
5°	100.4	99.4	99.4	96.2	93.1	87.9	85.8	85.8	86.8	87.9	89.9
7.5°	126.6	128.6	130.7	125.5	116.1	103.5	96.2	98.3	103.5	107.7	107.7
10°	146.4	146.4	153.8	147.5	131.8	116.1	105.6	103.5	104.6	105.6	106.7
12.5°	174.7	174.7	170.5	153.8	138.1	122.4	114.0	111.9	111.9	107.7	106.7
15°	195.6	189.3	174.7	159.0	145.4	129.7	120.3	117.1	114.0	110.9	109.8
17.5°	208.1	196.6	176.8	162.1	148.5	136.0	126.6	120.3	117.1	118.2	118.2
20°	222.8	210.2	192.5	176.8	160.0	143.3	131.8	122.4	119.2	120.3	119.2
22.5°	234.3	221.7	204.0	186.2	168.4	150.6	137.0	125.5	121.3	122.4	122.4
25°	247.9	237.4	218.6	197.7	175.7	159.0	145.4	131.8	125.5	124.5	124.5
27.5°	261.5	254.2	234.3	209.2	186.2	166.3	152.7	137.0	129.7	126.6	126.6
30°	279.3	270.9	251.0	220.7	195.6	176.8	162.1	145.4	134.9	129.7	128.6
32.5°	307.5	298.1	274.0	241.6	206.0	187.2	171.5	152.7	139.1	132.8	131.8
35°	399.5	384.9	347.2	309.6	252.1	209.2	183.0	159.0	143.3	134.9	133.9
37.5°	457.1	421.5	371.3	346.2	283.4	256.3	220.7	182.0	149.6	139.1	137.0
40°	550.2	501.0	438.2	389.1	276.1	280.3	258.3	227.0	177.8	146.4	143.3
42.5°	628.6	566.9	471.7	407.9	277.2	292.9	276.1	250.0	213.4	173.6	167.3
45°	775.0	695.5	548.1	438.2	284.5	311.7	290.8	263.6	231.1	204.0	200.8
47.5°	1047.0	939.2	685.1	488.4	332.6	361.9	324.2	288.7	259.4	228.0	222.8
50°	1432.9	1304.3	843.0	528.2	415.2	476.9	409.0	349.3	315.9	292.9	289.7
52.5°	1877.4	1742.5	959.1	601.4	515.6	619.2	540.7	471.7	427.8	427.8	434.1
55°	2394.1	2259.2	1052.2	702.9	639.1	776.1	691.4	634.9	614.0	702.9	726.9
57.5°	2906.6	2735.1	1115.0	806.4	783.4	960.2	858.7	810.6	849.3	1112.9	1194.4
60°	3374.2	3090.7	1164.1	904.7	906.8	1106.6	1031.3	1028.1	1087.8	1424.6	1528.1
62.5°	3644.0	3258.1	1161.0	961.2	979.0	1197.6	1134.8	1151.6	1185.0	1476.8	1555.3
65°	3829.1	3337.6	1136.9	986.3	1009.3	1230.0	1151.6	1123.3	1101.4	1307.4	1382.7
67.5°	3701.5	3151.4	1082.5	949.7	990.5	1182.9	1079.4	998.9	956.0	1060.6	1111.8
70°	3100.1	2628.4	958.1	854.5	892.2	996.8	897.4	817.9	772.9	829.4	853.5
72.5°	2348.1	1999.8	863.9	799.1	782.4	824.2	730.1	641.2	614.0	650.6	655.8
75°	1870.1	1564.7	794.9	722.7	656.8	697.6	582.6	474.9	459.2	459.2	450.8
77.5°	1402.6	1159.9	677.8	562.7	484.3	551.2	434.1	330.5	309.6	305.4	293.9
80°	940.3	789.7	456.0	373.4	348.3	409.0	308.5	242.7	243.7	242.7	229.1
82.5°	656.8	609.8	370.3	325.3	298.1	322.1	279.3	233.2	231.1	233.2	218.6
85°	582.6	558.5	358.8	335.7	307.5	310.6	267.8	220.7	221.7	225.9	213.4
87.5°	559.6	532.4	359.8	324.2	300.2	287.6	242.7	204.0	210.2	214.4	204.0
90°	504.1	476.9	330.5	292.9	267.8	250.0	214.4	193.5	201.9	206.0	196.6
92.5°	437.2	409.0	275.1	258.3	252.1	252.1	224.9	206.0	211.3	213.4	205.0
95°	376.5	349.3	244.7	227.0	221.7	222.8	200.8	185.1	188.3	187.2	180.9
97.5°	304.4	287.6	213.4	201.9	196.6	194.5	179.9	168.4	174.7	178.9	173.6
100°	268.8	260.4	206.0	197.7	190.4	189.3	176.8	169.4	174.7	180.9	176.8
102.5°	251.0	244.7	196.6	185.1	179.9	177.8	169.4	161.1	166.3	172.6	169.4
105°	236.4	227.0	188.3	177.8	170.5	169.4	161.1	150.6	153.8	162.1	160.0
107.5°	223.8	217.6	187.2	175.7	166.3	166.3	156.9	148.5	149.6	152.7	152.7
110°	234.3	227.0	194.5	186.2	173.6	169.4	167.3	161.1	155.8	153.8	153.8



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 CATALOG NUMBER: FFX-CLB-70-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	289.7	276.1	243.7	234.3	213.4	198.7	185.1	172.6	164.2	161.1	159.0
115°	342.0	326.3	287.6	263.6	235.3	213.4	194.5	180.9	168.4	164.2	168.4
117.5°	352.5	310.6	251.0	231.1	214.4	200.8	190.4	179.9	170.5	173.6	170.5
120°	349.3	298.1	253.1	281.4	253.1	221.7	196.6	196.6	193.5	177.8	180.9
122.5°	537.6	502.0	447.7	430.9	351.4	321.1	274.0	234.3	195.6	173.6	163.2
125°	736.3	701.8	618.1	554.3	474.9	391.2	300.2	231.1	180.9	160.0	163.2
127.5°	740.5	709.1	629.6	521.9	417.3	334.7	250.0	205.0	176.8	163.2	161.1
130°	577.4	547.0	479.0	396.4	330.5	276.1	224.9	185.1	160.0	149.6	146.4
132.5°	500.0	472.8	410.0	334.7	286.6	243.7	200.8	161.1	144.3	137.0	138.1
135°	420.5	388.0	328.4	287.6	257.3	218.6	179.9	147.5	139.1	137.0	136.0
137.5°	356.7	333.7	291.8	260.4	231.1	196.6	157.9	138.1	134.9	137.0	134.9
140°	303.3	284.5	261.5	234.3	198.7	166.3	141.2	131.8	137.0	138.1	137.0
142.5°	261.5	242.7	218.6	182.0	165.3	150.6	144.3	137.0	137.0	136.0	134.9
145°	218.6	193.5	182.0	187.2	176.8	162.1	150.6	136.0	130.7	130.7	131.8
147.5°	251.0	224.9	210.2	198.7	178.9	157.9	140.2	126.6	124.5	128.6	127.6
150°	216.5	192.5	182.0	166.3	153.8	138.1	126.6	121.3	122.4	127.6	127.6
152.5°	172.6	155.8	149.6	145.4	139.1	129.7	123.4	121.3	123.4	125.5	125.5
155°	162.1	152.7	145.4	142.2	134.9	127.6	122.4	121.3	123.4	125.5	127.6
157.5°	151.7	148.5	139.1	136.0	129.7	126.6	123.4	123.4	124.5	126.6	128.6
160°	144.3	143.3	134.9	133.9	129.7	127.6	127.6	128.6	129.7	129.7	129.7
162.5°	140.2	140.2	137.0	134.9	133.9	132.8	136.0	137.0	136.0	136.0	136.0
165°	141.2	142.2	139.1	137.0	136.0	138.1	143.3	143.3	141.2	140.2	139.1
167.5°	142.2	143.3	141.2	140.2	140.2	142.2	144.3	143.3	142.2	141.2	140.2
170°	141.2	142.2	142.2	143.3	143.3	143.3	145.4	145.4	143.3	142.2	142.2
172.5°	143.3	144.3	145.4	146.4	147.5	146.4	147.5	147.5	147.5	147.5	148.5
175°	149.6	149.6	150.6	150.6	149.6	150.6	150.6	150.6	151.7	153.8	153.8
177.5°	152.7	152.7	151.7	151.7	150.6	151.7	151.7	151.7	151.7	152.7	151.7
180°	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8	154.8

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.

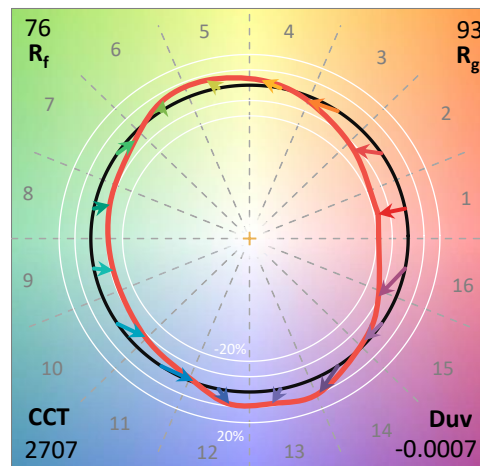
Test Information

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

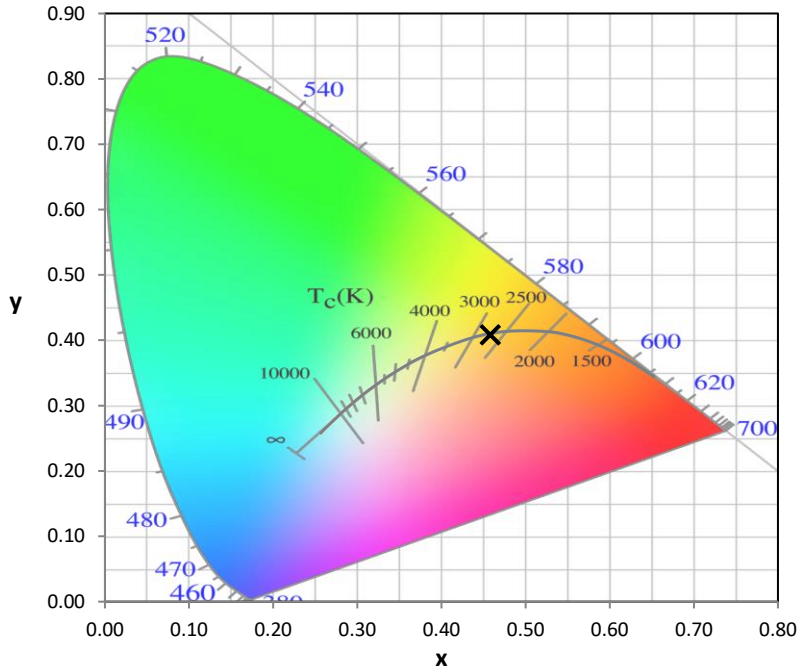
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

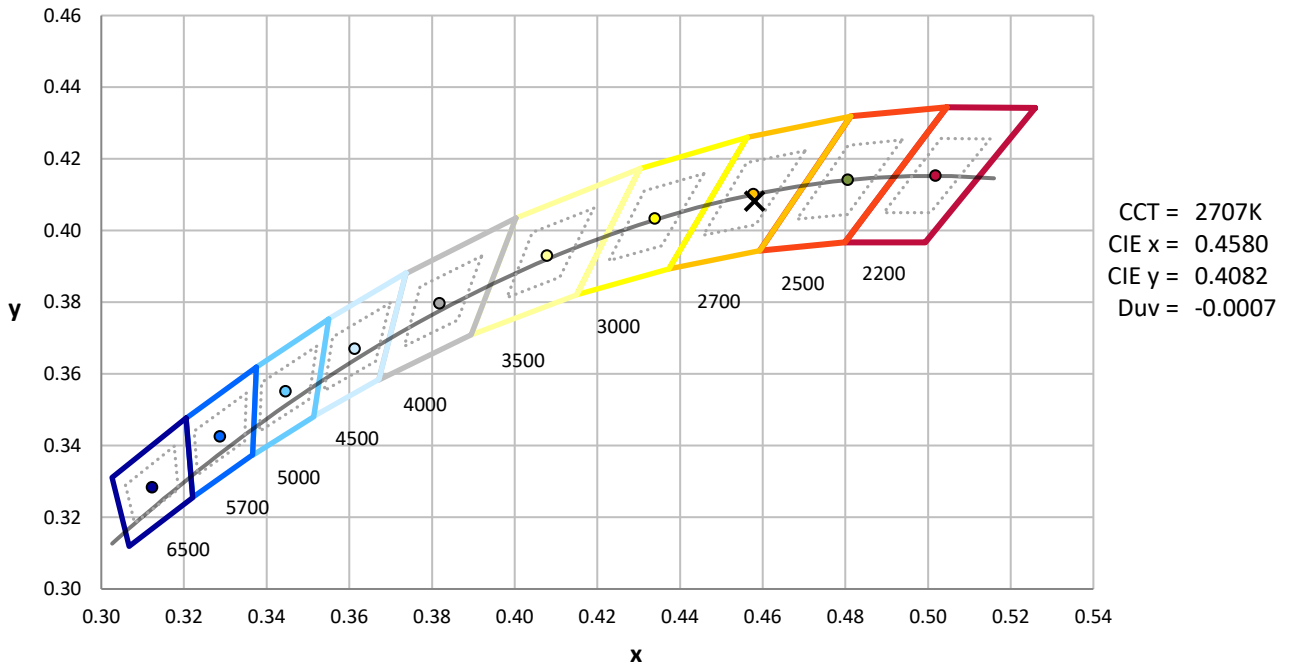
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



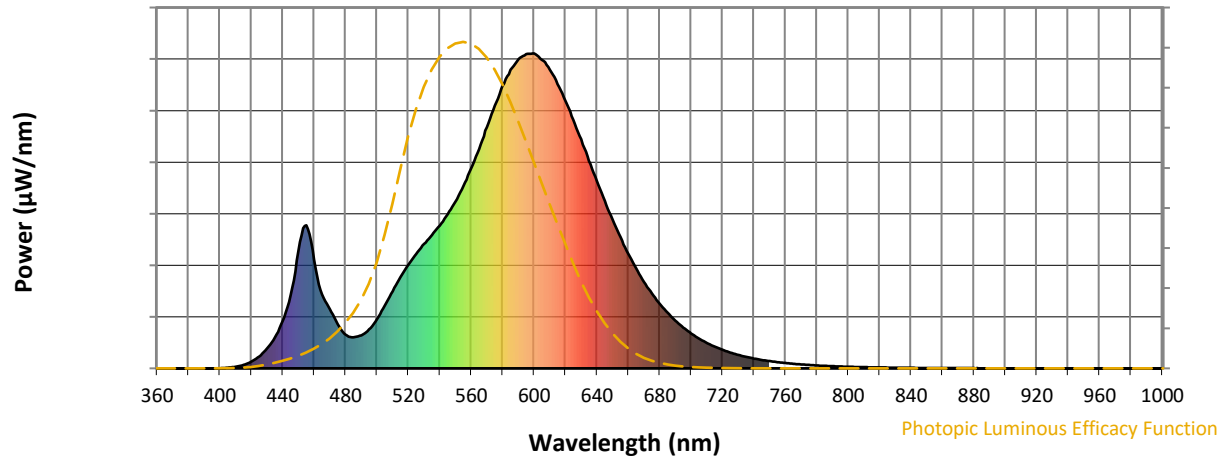
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

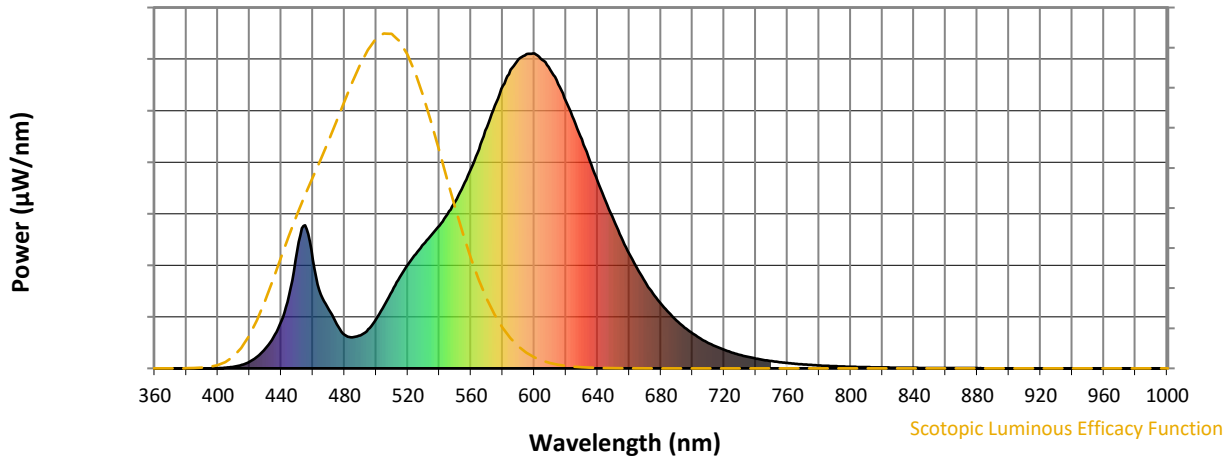


Photopic Lumens: NR

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



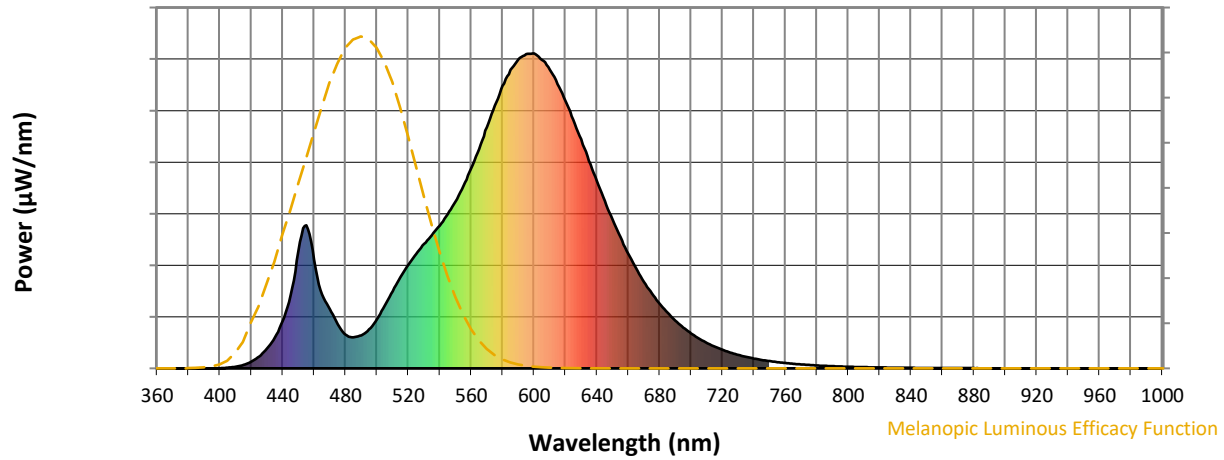
Scotopic Lumens: NR

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

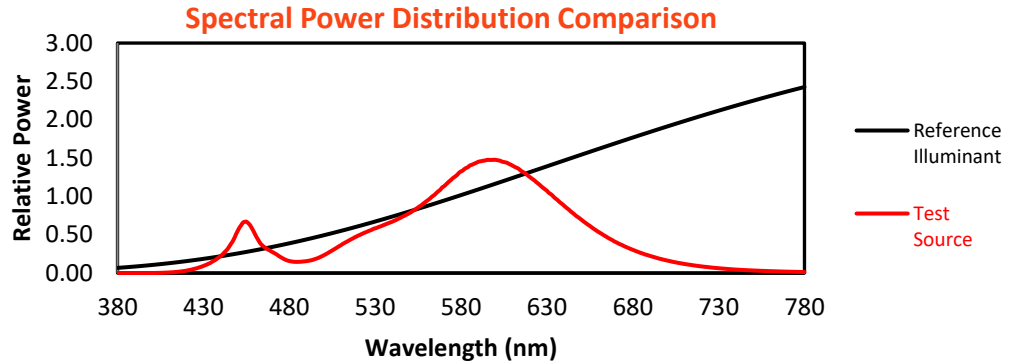
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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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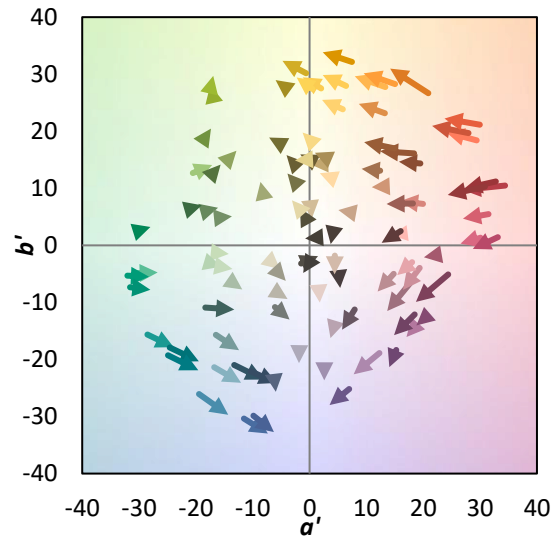
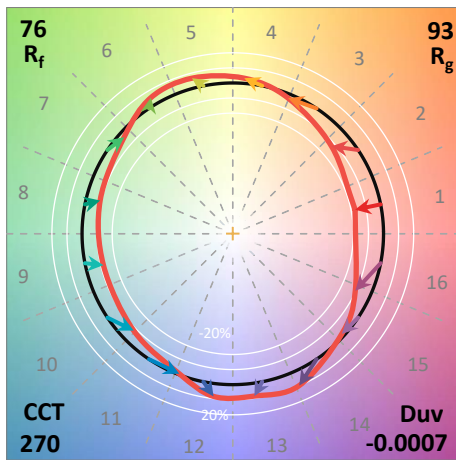
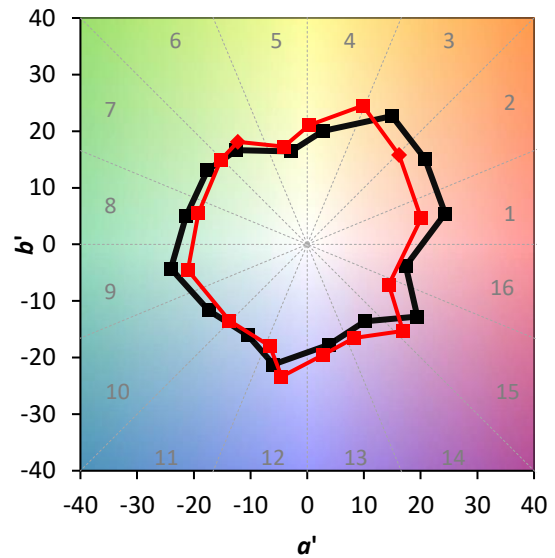
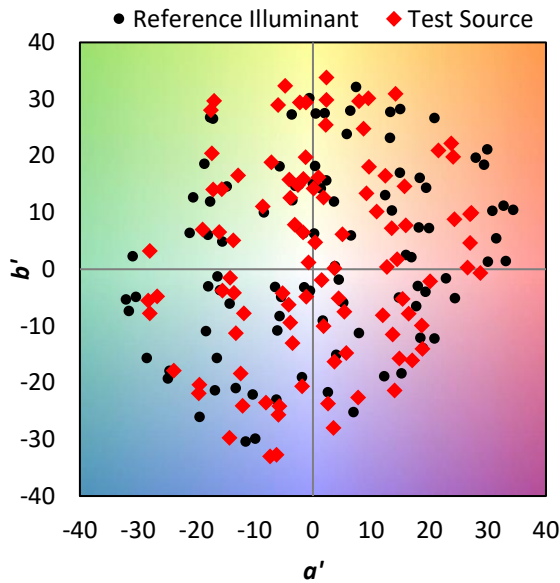
TM-30-18

Summary

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



Color Vector Graphics

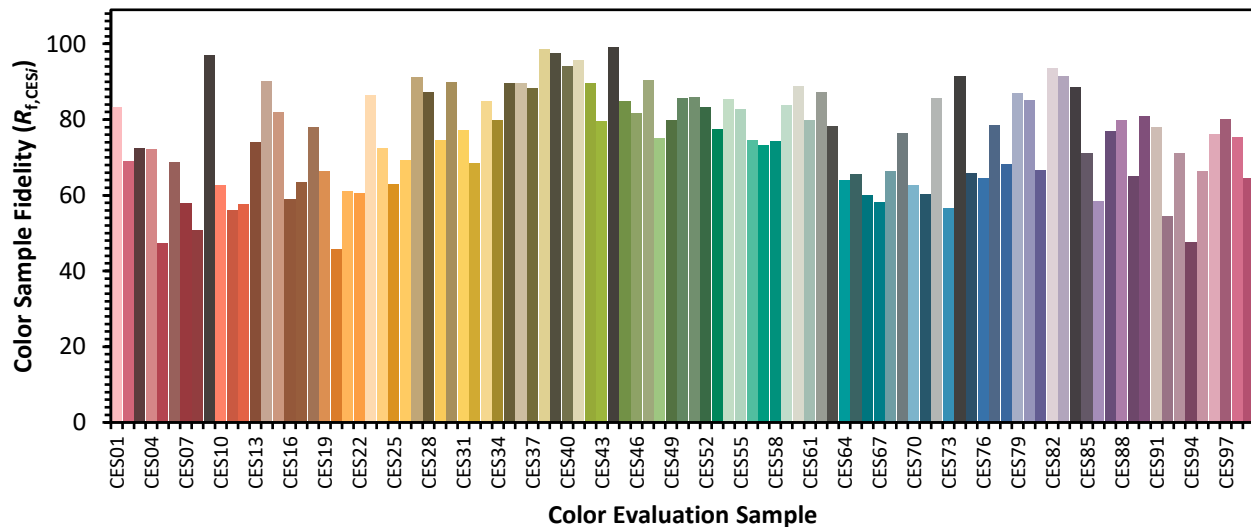


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TM-30-18

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

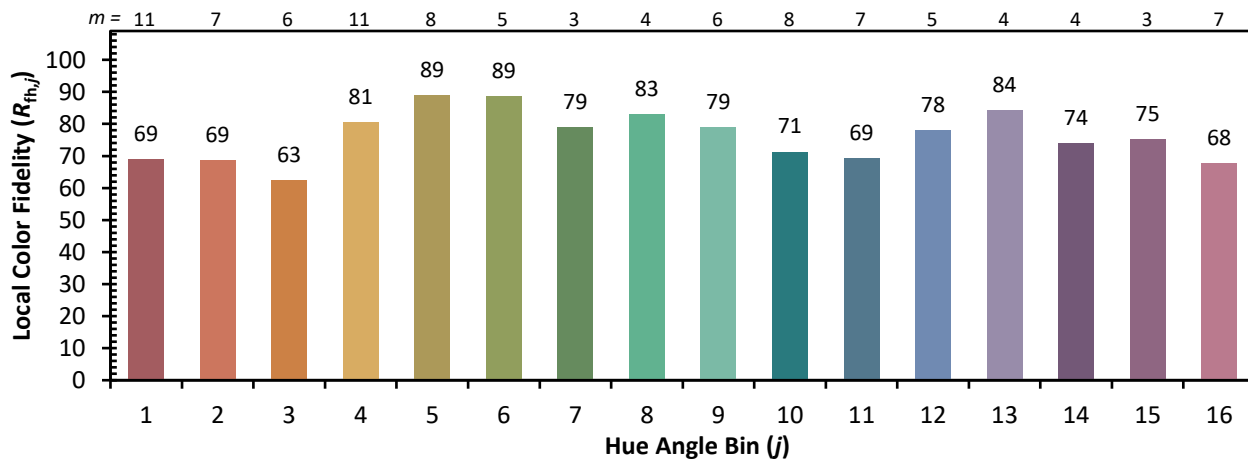
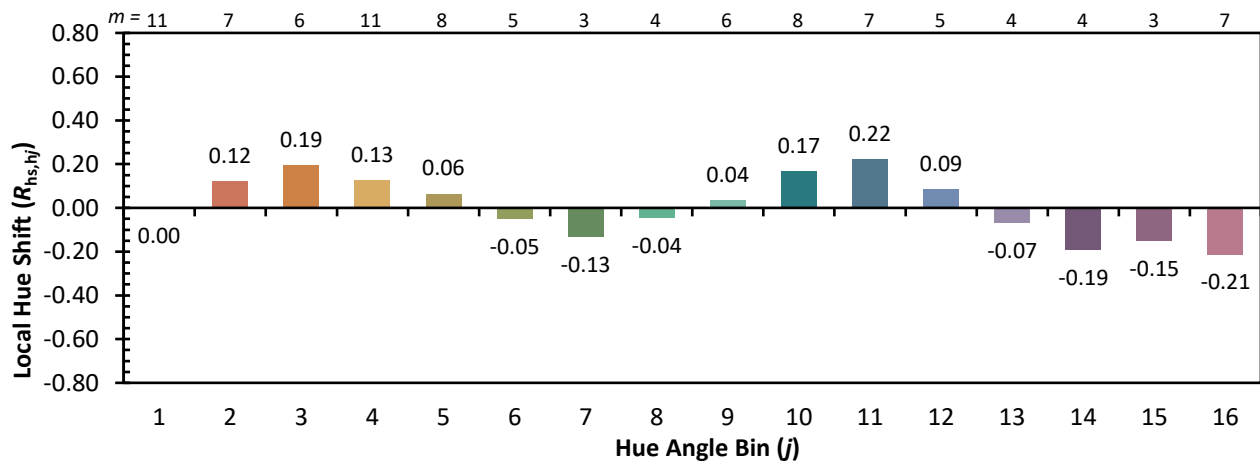
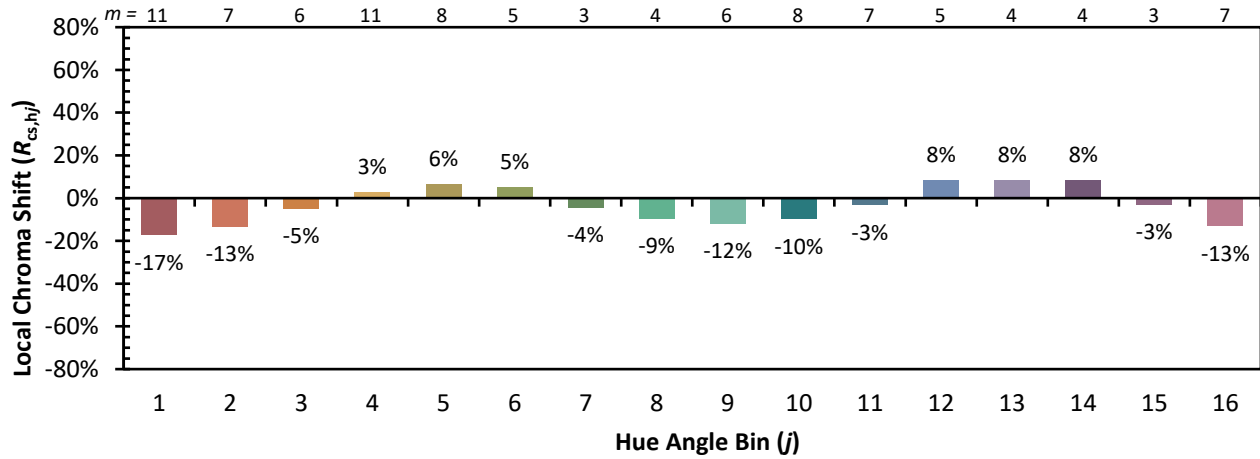
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 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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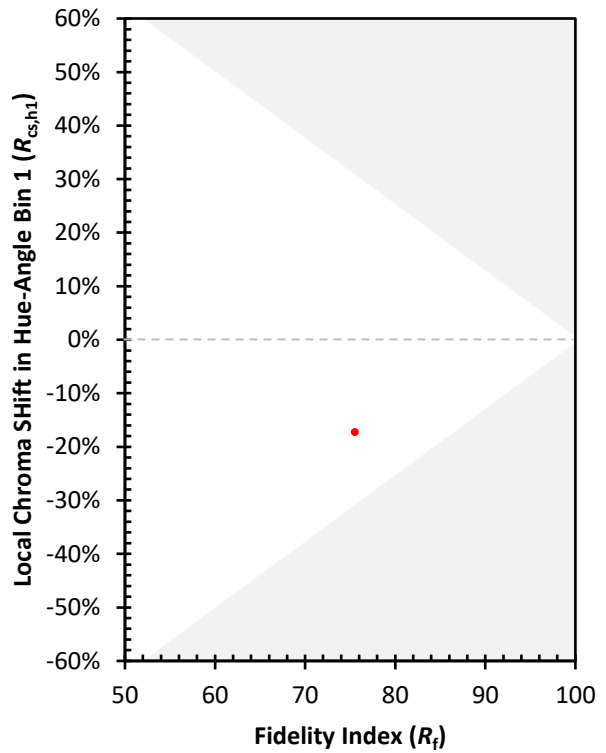
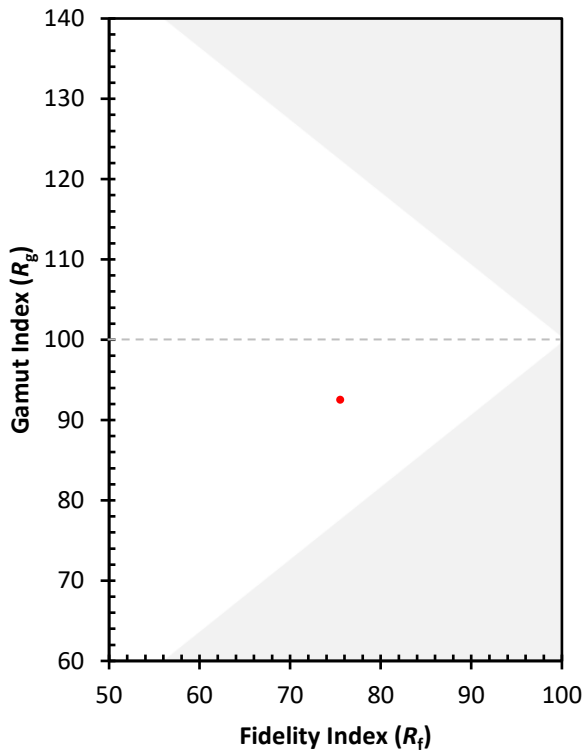
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)