

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: P856141

Luminaire Tested: **FFX-CLB-60-750-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856141
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-60-750-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

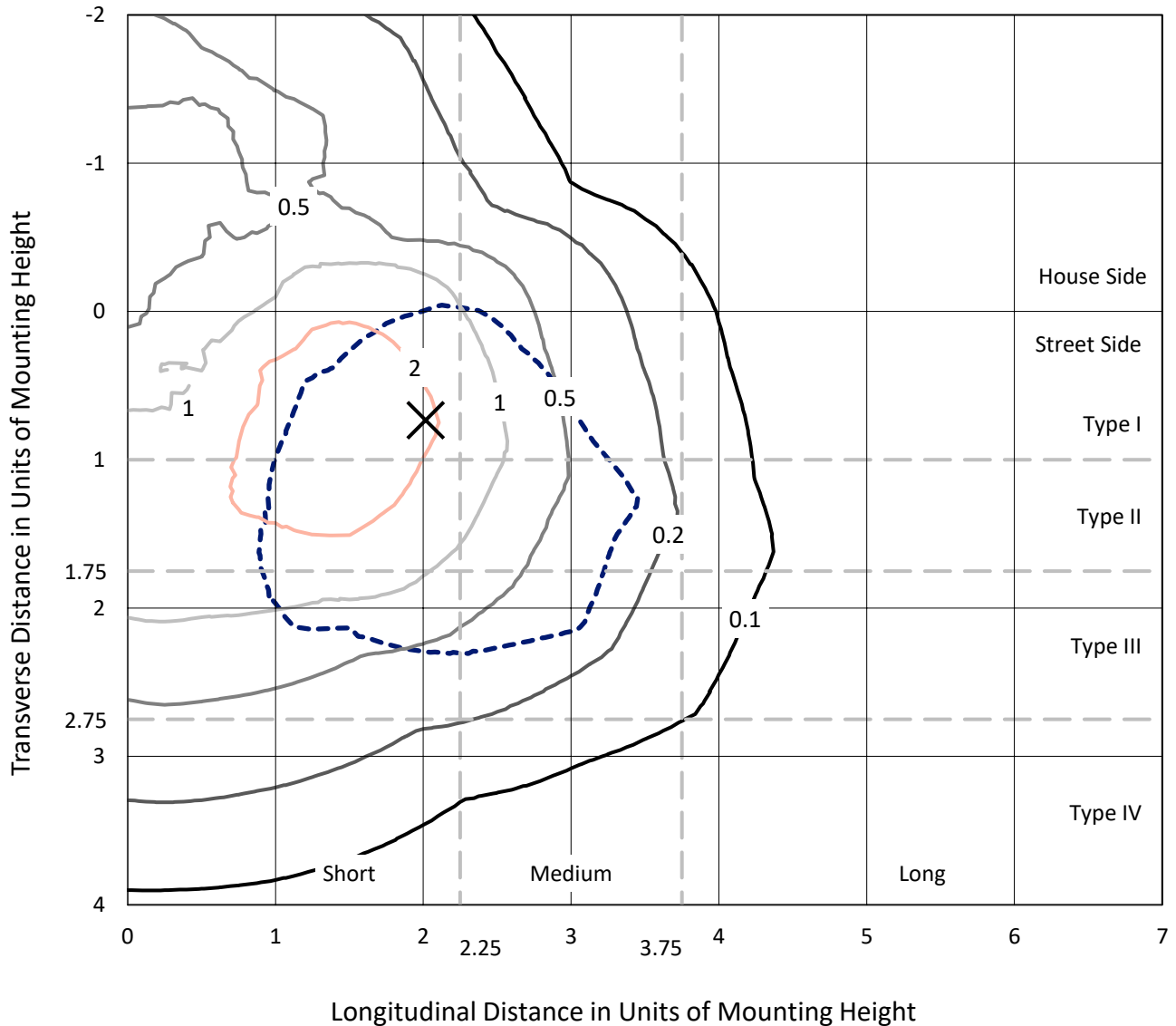
Lumens per Lamp: N/A
Luminaire Lumens: 9271.2 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U5 - G3

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 8.9%
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

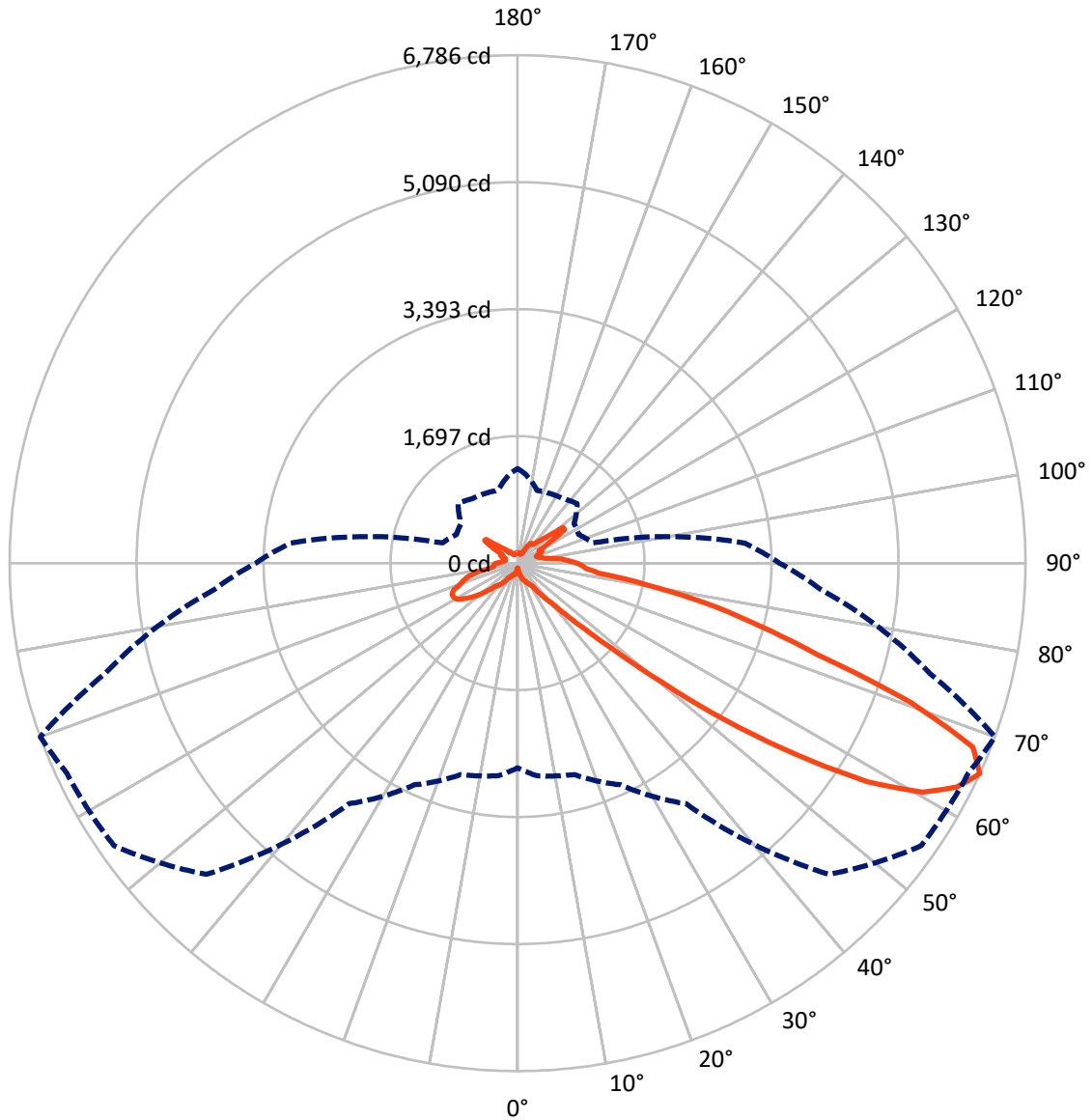
✕ Max cd
 - - - 1/2 Max cd



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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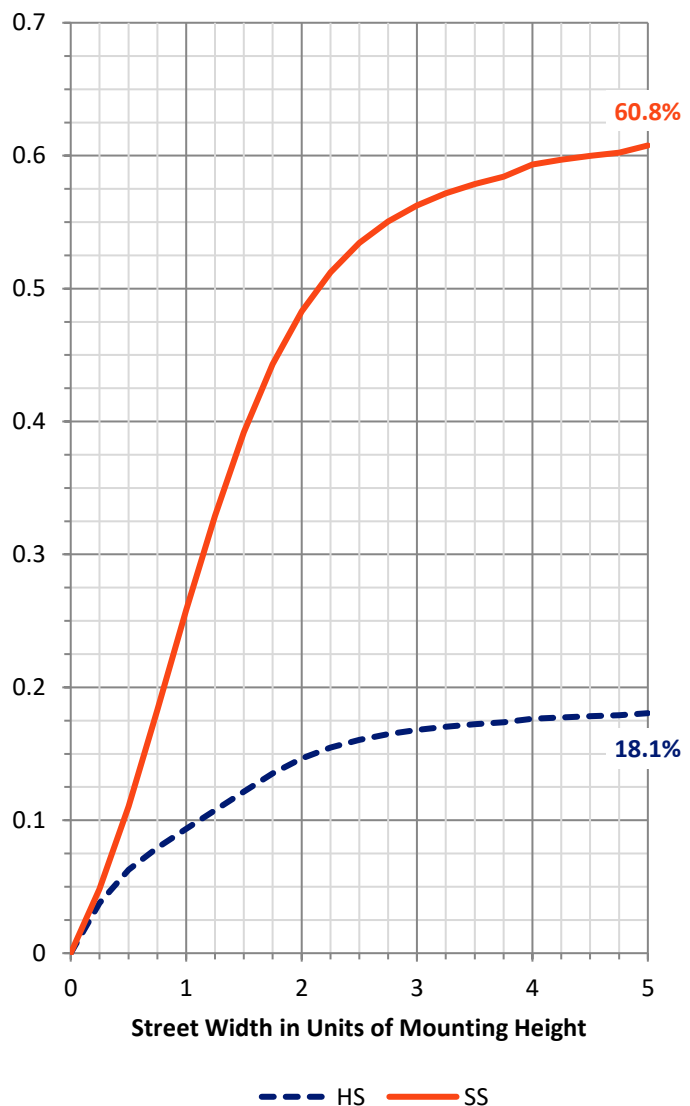
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1746.4	623.0	2369.4
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	5823.6	1078.1	6901.7
	% Fixture	62.8	11.6	74.4
Total	Lumens	7570.0	1701.1	9271.2
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.1
10°-20°	48.6	0.5
20°-30°	103.1	1.1
30°-40°	210.0	2.3
40°-50°	533.9	5.8
50°-60°	1715.8	18.5
60°-70°	2800.1	30.2
70°-80°	1594.1	17.2
80°-90°	554.7	6.0
90°-100°	345.2	3.7
100°-110°	219.8	2.4
110°-120°	241.8	2.6
120°-130°	409.0	4.4
130°-140°	241.1	2.6
140°-150°	129.8	1.4
150°-160°	65.6	0.7
160°-170°	35.9	0.4
170°-180°	12.9	0.1
0°-90°	7570.0	81.7
0°-180°	9271.2	100.0



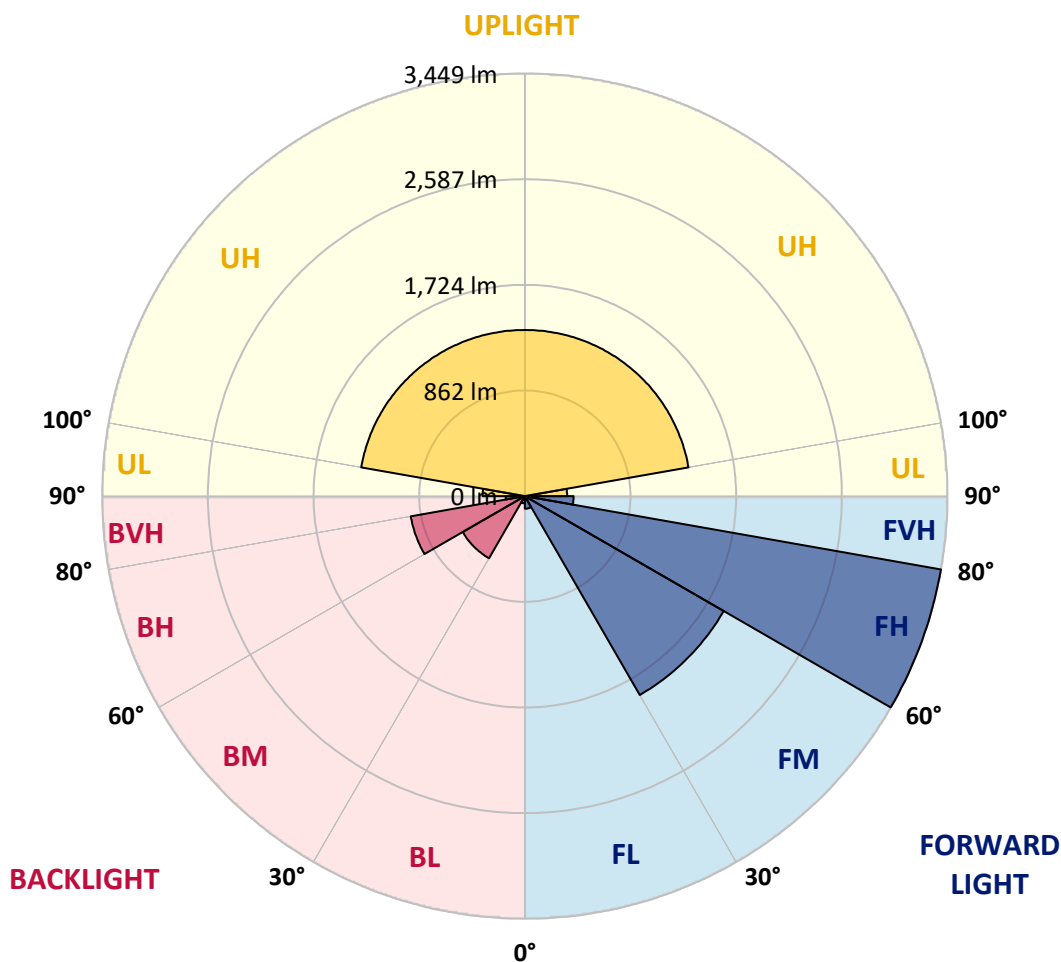
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.9	1.1			
FM (30°-60°)	1874.3	20.2			
FH (60°-80°)	3448.7	37.2			G2/5000
FVH (80°-90°)	397.7	4.3			G3/500
BL (0°-30°)	58.7	0.6	B0/110		
BM (30°-60°)	585.3	6.3	B1/1000		
BH (60°-80°)	945.5	10.2	B2/1000		G2/1000
BVH (80°-90°)	157.0	1.7			G2/225
UL (90°-100°)	345.2	3.7		U3/500	
UH (100°-180°)	1356.0	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°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2.5°	73.6	73.6	75.5	75.5	75.5	73.6	72.6	70.7	70.7	70.7	69.7
5°	95.5	94.6	95.5	98.4	99.4	96.5	94.6	91.7	91.7	90.8	90.8
7.5°	129.0	128.0	126.1	123.2	124.2	127.1	130.9	123.2	121.3	116.6	114.6
10°	161.5	159.6	161.5	156.7	151.9	145.2	149.0	147.1	143.3	138.5	134.7
12.5°	196.8	197.8	201.6	197.8	190.1	179.6	177.7	172.9	169.1	168.1	162.4
15°	233.1	234.1	237.9	236.9	229.3	215.0	209.2	204.5	202.5	196.8	184.4
17.5°	252.2	253.2	254.1	255.1	250.3	238.8	230.2	221.7	218.8	216.9	201.6
20°	261.8	259.9	261.8	265.6	269.4	259.9	251.3	246.5	243.6	236.9	216.9
22.5°	277.1	275.2	274.2	277.1	288.5	281.8	273.2	268.5	265.6	257.0	226.4
25°	293.3	291.4	294.3	292.3	306.7	303.8	295.2	290.4	286.6	276.1	240.8
27.5°	311.5	309.5	312.4	310.5	322.0	323.9	318.1	314.3	308.6	293.3	251.3
30°	326.7	324.8	327.7	326.7	338.2	344.9	342.0	341.1	332.5	314.3	269.4
32.5°	339.2	338.2	344.9	347.8	350.6	365.9	364.0	372.6	363.0	341.1	296.2
35°	367.8	370.7	388.8	408.0	410.8	441.4	445.2	476.7	467.2	438.5	384.1
37.5°	568.5	557.9	539.8	521.6	515.0	574.2	582.8	614.3	590.4	536.9	449.0
40°	605.7	588.5	567.5	553.2	555.1	661.1	643.0	762.4	694.6	614.3	548.4
42.5°	575.1	569.4	643.0	677.4	652.5	807.3	776.7	1004.1	926.7	729.9	662.1
45°	721.3	709.9	735.6	770.0	777.7	1062.4	1041.4	1279.3	1247.7	912.4	849.3
47.5°	825.5	814.9	849.3	965.9	1066.2	1373.9	1488.5	1831.5	1720.7	1296.5	1150.3
50°	1137.9	1136.0	1242.0	1380.5	1556.3	1998.7	2303.4	2688.5	2509.8	1835.3	1577.3
52.5°	1446.5	1450.3	1580.2	1825.7	2008.2	2789.7	3222.5	3491.9	3515.8	2393.3	2044.5
55°	1679.6	1703.5	1860.1	2271.9	2548.0	3493.9	4055.6	4264.9	4503.7	3234.0	2530.8
57.5°	2134.3	2170.6	2319.7	2722.9	3108.8	4370.9	5129.5	5152.4	5508.8	4166.5	3052.5
60°	2531.8	2616.8	2669.4	3035.3	3561.7	5208.8	5927.2	5881.4	6215.8	4939.4	3581.8
62.5°	2655.0	2752.5	2802.2	3192.0	3920.0	5678.8	6299.8	6357.2	6587.4	5482.0	3905.6
65°	2735.3	2849.9	2924.4	3269.3	3923.8	5879.5	6582.6	6643.8	6786.1	5709.4	4067.1
67.5°	2694.2	2840.4	2935.9	3242.6	3717.4	5724.7	6526.3	6408.8	6559.7	5519.3	3886.5
70°	2352.2	2505.0	2601.5	2829.9	3107.9	4813.3	5626.3	5429.5	5562.3	4606.9	3195.8
72.5°	1916.5	1992.0	2051.2	2176.4	2342.6	3550.2	4275.4	4112.0	4191.3	3466.2	2395.2
75°	1574.5	1597.4	1671.0	1742.6	1770.3	2596.7	3386.9	3237.8	3330.5	2638.8	1906.0
77.5°	1143.6	1157.0	1262.1	1273.5	1266.8	1781.8	2669.4	2538.5	2568.1	1961.4	1422.6
80°	664.0	689.8	827.4	820.7	809.2	1097.7	1879.3	1826.7	1735.0	1331.8	985.0
82.5°	468.1	493.9	557.0	571.3	563.7	788.2	1220.0	1185.6	1086.3	926.7	681.2
85°	493.0	495.8	498.7	505.4	493.0	703.2	934.4	917.2	918.1	766.2	561.8
87.5°	486.3	497.8	502.5	505.4	493.0	667.8	868.4	846.5	857.0	728.0	545.5
90°	427.1	448.1	450.0	454.8	448.1	596.2	779.6	758.6	772.0	656.4	496.8
92.5°	348.7	360.2	373.6	391.7	384.1	510.2	663.0	647.8	664.0	568.5	436.6
95°	330.6	343.0	351.6	364.0	352.5	465.3	599.0	568.5	581.8	497.8	376.4
97.5°	273.2	283.8	291.4	296.2	287.6	366.9	459.5	438.5	437.6	385.0	300.9
100°	233.1	239.8	246.5	251.3	243.6	303.8	364.0	356.4	358.3	318.1	258.9
102.5°	221.7	225.5	236.0	236.9	228.3	277.1	327.7	324.8	328.7	294.3	242.7
105°	216.9	219.7	228.3	225.5	217.8	258.9	301.9	303.8	303.8	274.2	227.4
107.5°	202.5	207.3	216.9	212.1	208.3	238.8	278.0	271.3	273.2	255.1	215.9
110°	200.6	204.5	214.0	210.2	207.3	233.1	267.5	265.6	268.5	252.2	221.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	249.4	245.5	253.2	245.5	250.3	272.3	308.6	304.8	313.4	307.6	277.1
115°	307.6	309.5	317.2	301.9	306.7	328.7	348.7	355.4	363.0	354.4	322.9
117.5°	284.7	300.9	291.4	289.5	285.7	302.9	300.0	317.2	324.8	318.1	305.7
120°	304.8	324.8	297.1	282.8	277.1	320.1	341.1	340.1	334.4	321.0	295.2
122.5°	455.7	458.6	460.5	503.5	488.2	530.2	542.7	526.4	526.4	543.6	491.1
125°	710.8	713.7	711.8	730.9	720.4	760.5	776.7	775.8	766.2	757.6	706.0
127.5°	718.5	718.5	711.8	701.3	710.8	750.0	750.9	787.2	774.8	751.9	704.1
130°	501.6	505.4	529.3	536.9	550.3	558.9	549.3	580.9	586.6	582.8	550.3
132.5°	415.6	422.3	448.1	457.6	466.2	467.2	463.4	488.2	493.9	493.9	479.6
135°	359.2	366.9	369.7	365.0	377.4	386.9	394.6	414.6	412.7	408.9	396.5
137.5°	313.4	316.2	307.6	297.1	303.8	331.5	346.8	367.8	366.9	360.2	339.2
140°	264.6	265.6	260.8	256.0	262.7	286.6	300.9	323.9	321.0	316.2	291.4
142.5°	200.6	203.5	215.9	225.5	241.7	291.4	283.8	303.8	318.1	329.6	272.3
145°	211.1	207.3	205.4	215.9	236.9	308.6	286.6	312.4	319.1	326.7	260.8
147.5°	243.6	245.5	242.7	236.0	264.6	287.6	275.2	298.1	301.9	300.0	273.2
150°	191.1	193.9	194.9	192.0	227.4	226.4	214.0	231.2	233.1	233.1	215.0
152.5°	155.7	156.7	154.8	152.9	175.8	172.0	166.2	172.0	171.0	170.1	166.2
155°	148.1	148.1	146.2	147.1	162.4	158.6	154.8	158.6	156.7	153.8	150.0
157.5°	136.6	137.6	137.6	140.4	150.0	143.3	139.5	141.4	139.5	137.6	137.6
160°	129.0	129.0	129.9	133.8	139.5	132.8	129.9	130.9	129.9	128.0	129.0
162.5°	126.1	126.1	127.1	129.0	129.9	126.1	123.2	123.2	123.2	123.2	126.1
165°	124.2	124.2	124.2	125.2	125.2	122.3	121.3	122.3	123.2	124.2	128.0
167.5°	128.0	128.0	128.0	128.0	127.1	125.2	124.2	125.2	126.1	127.1	129.9
170°	133.8	132.8	132.8	131.8	130.9	129.0	128.0	127.1	127.1	128.0	129.0
172.5°	137.6	137.6	136.6	136.6	135.7	133.8	131.8	130.9	130.9	130.9	130.9
175°	142.4	142.4	142.4	142.4	141.4	139.5	138.5	136.6	136.6	136.6	136.6
177.5°	148.1	148.1	148.1	148.1	146.2	144.3	142.4	140.4	140.4	140.4	139.5
180°	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2.5°	68.8	67.8	65.0	64.0	63.1	61.1	59.2	58.3	57.3	57.3	58.3
5°	91.7	90.8	90.8	87.9	85.0	80.3	78.3	78.3	79.3	80.3	82.2
7.5°	115.6	117.5	119.4	114.6	106.0	94.6	87.9	89.8	94.6	98.4	98.4
10°	133.8	133.8	140.4	134.7	120.4	106.0	96.5	94.6	95.5	96.5	97.4
12.5°	159.6	159.6	155.7	140.4	126.1	111.8	104.1	102.2	102.2	98.4	97.4
15°	178.7	172.9	159.6	145.2	132.8	118.5	109.9	107.0	104.1	101.3	100.3
17.5°	190.1	179.6	161.5	148.1	135.7	124.2	115.6	109.9	107.0	108.0	108.0
20°	203.5	192.0	175.8	161.5	146.2	130.9	120.4	111.8	108.9	109.9	108.9
22.5°	214.0	202.5	186.3	170.1	153.8	137.6	125.2	114.6	110.8	111.8	111.8
25°	226.4	216.9	199.7	180.6	160.5	145.2	132.8	120.4	114.6	113.7	113.7
27.5°	238.8	232.2	214.0	191.1	170.1	151.9	139.5	125.2	118.5	115.6	115.6
30°	255.1	247.4	229.3	201.6	178.7	161.5	148.1	132.8	123.2	118.5	117.5
32.5°	280.9	272.3	250.3	220.7	188.2	171.0	156.7	139.5	127.1	121.3	120.4
35°	365.0	351.6	317.2	282.8	230.2	191.1	167.2	145.2	130.9	123.2	122.3
37.5°	417.5	385.0	339.2	316.2	258.9	234.1	201.6	166.2	136.6	127.1	125.2
40°	502.5	457.6	400.3	355.4	252.2	256.0	236.0	207.3	162.4	133.8	130.9
42.5°	574.2	517.8	430.9	372.6	253.2	267.5	252.2	228.3	194.9	158.6	152.9
45°	707.9	635.3	500.6	400.3	259.9	284.7	265.6	240.8	211.1	186.3	183.4
47.5°	956.3	857.9	625.8	446.2	303.8	330.6	296.2	263.7	236.9	208.3	203.5
50°	1308.9	1191.4	770.0	482.5	379.3	435.7	373.6	319.1	288.5	267.5	264.6
52.5°	1714.9	1591.7	876.1	549.3	471.0	565.6	493.9	430.9	390.8	390.8	396.5
55°	2186.9	2063.6	961.1	642.0	583.7	708.9	631.5	579.9	560.8	642.0	664.0
57.5°	2655.0	2498.3	1018.4	736.6	715.6	877.0	784.4	740.4	775.8	1016.5	1091.1
60°	3082.1	2823.2	1063.3	826.4	828.3	1010.8	942.0	939.1	993.6	1301.2	1395.8
62.5°	3328.6	2976.0	1060.5	878.0	894.2	1093.9	1036.6	1051.9	1082.5	1349.0	1420.7
65°	3497.7	3048.6	1038.5	900.9	922.0	1123.5	1051.9	1026.1	1006.0	1194.2	1263.0
67.5°	3381.1	2878.6	988.8	867.5	904.8	1080.5	986.0	912.4	873.2	968.8	1015.6
70°	2831.8	2400.9	875.1	780.6	814.9	910.5	819.7	747.1	706.0	757.6	779.6
72.5°	2144.8	1826.7	789.2	729.9	714.6	752.8	666.9	585.7	560.8	594.3	599.0
75°	1708.2	1429.3	726.1	660.2	600.0	637.2	532.2	433.7	419.4	419.4	411.8
77.5°	1281.2	1059.5	619.1	514.0	442.3	503.5	396.5	301.9	282.8	279.0	268.5
80°	858.9	721.3	416.5	341.1	318.1	373.6	281.8	221.7	222.6	221.7	209.2
82.5°	600.0	557.0	338.2	297.1	272.3	294.3	255.1	213.1	211.1	213.1	199.7
85°	532.2	510.2	327.7	306.7	280.9	283.8	244.6	201.6	202.5	206.4	194.9
87.5°	511.1	486.3	328.7	296.2	274.2	262.7	221.7	186.3	192.0	195.9	186.3
90°	460.5	435.7	301.9	267.5	244.6	228.3	195.9	176.7	184.4	188.2	179.6
92.5°	399.4	373.6	251.3	236.0	230.2	230.2	205.4	188.2	193.0	194.9	187.3
95°	343.9	319.1	223.6	207.3	202.5	203.5	183.4	169.1	172.0	171.0	165.3
97.5°	278.0	262.7	194.9	184.4	179.6	177.7	164.3	153.8	159.6	163.4	158.6
100°	245.5	237.9	188.2	180.6	173.9	172.9	161.5	154.8	159.6	165.3	161.5
102.5°	229.3	223.6	179.6	169.1	164.3	162.4	154.8	147.1	151.9	157.6	154.8
105°	215.9	207.3	172.0	162.4	155.7	154.8	147.1	137.6	140.4	148.1	146.2
107.5°	204.5	198.7	171.0	160.5	151.9	151.9	143.3	135.7	136.6	139.5	139.5
110°	214.0	207.3	177.7	170.1	158.6	154.8	152.9	147.1	142.4	140.4	140.4



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 CATALOG NUMBER: FFX-CLB-60-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	264.6	252.2	222.6	214.0	194.9	181.5	169.1	157.6	150.0	147.1	145.2
115°	312.4	298.1	262.7	240.8	215.0	194.9	177.7	165.3	153.8	150.0	153.8
117.5°	322.0	283.8	229.3	211.1	195.9	183.4	173.9	164.3	155.7	158.6	155.7
120°	319.1	272.3	231.2	257.0	231.2	202.5	179.6	179.6	176.7	162.4	165.3
122.5°	491.1	458.6	408.9	393.6	321.0	293.3	250.3	214.0	178.7	158.6	149.0
125°	672.6	641.1	564.6	506.4	433.7	357.3	274.2	211.1	165.3	146.2	149.0
127.5°	676.4	647.8	575.1	476.7	381.2	305.7	228.3	187.3	161.5	149.0	147.1
130°	527.4	499.7	437.6	362.1	301.9	252.2	205.4	169.1	146.2	136.6	133.8
132.5°	456.7	431.8	374.5	305.7	261.8	222.6	183.4	147.1	131.8	125.2	126.1
135°	384.1	354.4	300.0	262.7	235.0	199.7	164.3	134.7	127.1	125.2	124.2
137.5°	325.8	304.8	266.6	237.9	211.1	179.6	144.3	126.1	123.2	125.2	123.2
140°	277.1	259.9	238.8	214.0	181.5	151.9	129.0	120.4	125.2	126.1	125.2
142.5°	238.8	221.7	199.7	166.2	151.0	137.6	131.8	125.2	125.2	124.2	123.2
145°	199.7	176.7	166.2	171.0	161.5	148.1	137.6	124.2	119.4	119.4	120.4
147.5°	229.3	205.4	192.0	181.5	163.4	144.3	128.0	115.6	113.7	117.5	116.6
150°	197.8	175.8	166.2	151.9	140.4	126.1	115.6	110.8	111.8	116.6	116.6
152.5°	157.6	142.4	136.6	132.8	127.1	118.5	112.7	110.8	112.7	114.6	114.6
155°	148.1	139.5	132.8	129.9	123.2	116.6	111.8	110.8	112.7	114.6	116.6
157.5°	138.5	135.7	127.1	124.2	118.5	115.6	112.7	112.7	113.7	115.6	117.5
160°	131.8	130.9	123.2	122.3	118.5	116.6	116.6	117.5	118.5	118.5	118.5
162.5°	128.0	128.0	125.2	123.2	122.3	121.3	124.2	125.2	124.2	124.2	124.2
165°	129.0	129.9	127.1	125.2	124.2	126.1	130.9	130.9	129.0	128.0	127.1
167.5°	129.9	130.9	129.0	128.0	128.0	129.9	131.8	130.9	129.9	129.0	128.0
170°	129.0	129.9	129.9	130.9	130.9	130.9	132.8	132.8	130.9	129.9	129.9
172.5°	130.9	131.8	132.8	133.8	134.7	133.8	134.7	134.7	134.7	134.7	135.7
175°	136.6	136.6	137.6	137.6	136.6	137.6	137.6	137.6	138.5	140.4	140.4
177.5°	139.5	139.5	138.5	138.5	137.6	138.5	138.5	138.5	138.5	139.5	138.5
180°	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4

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: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

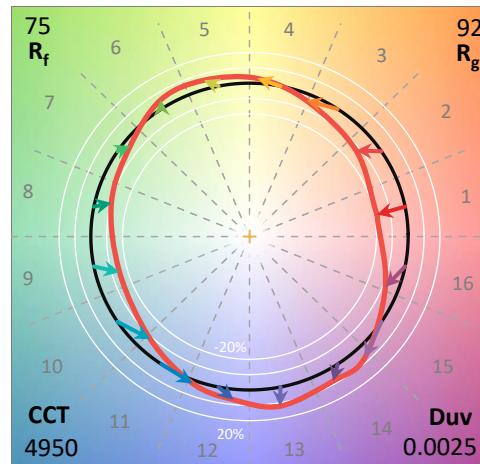
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 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-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



Test Conditions

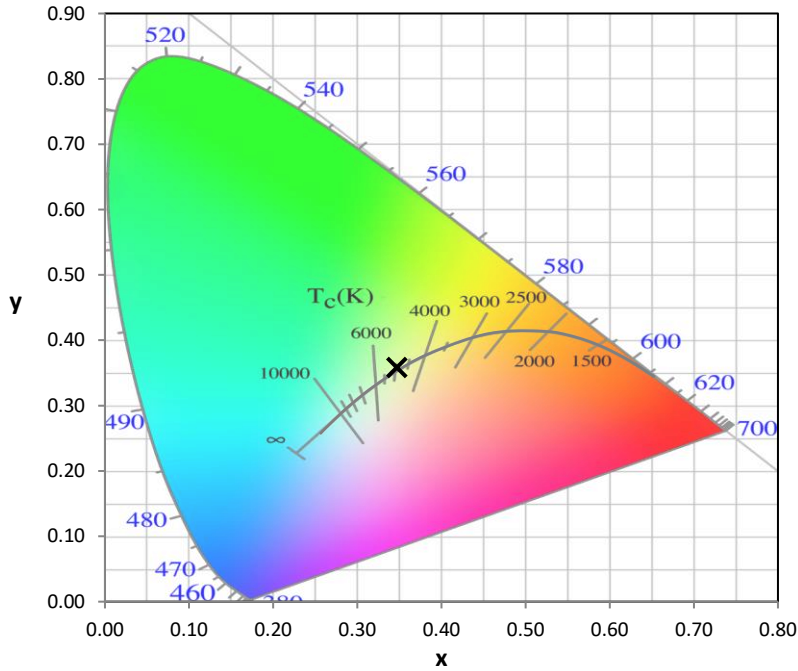
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

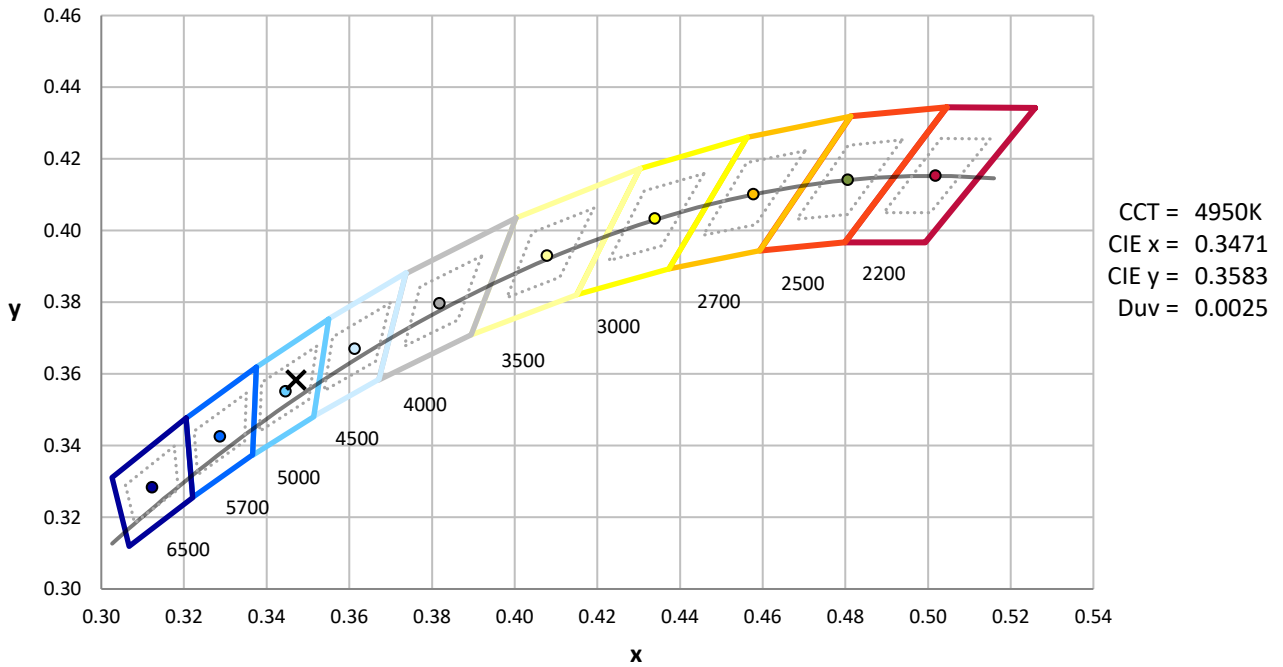
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-5

CIE 1931 Chromaticity Diagram



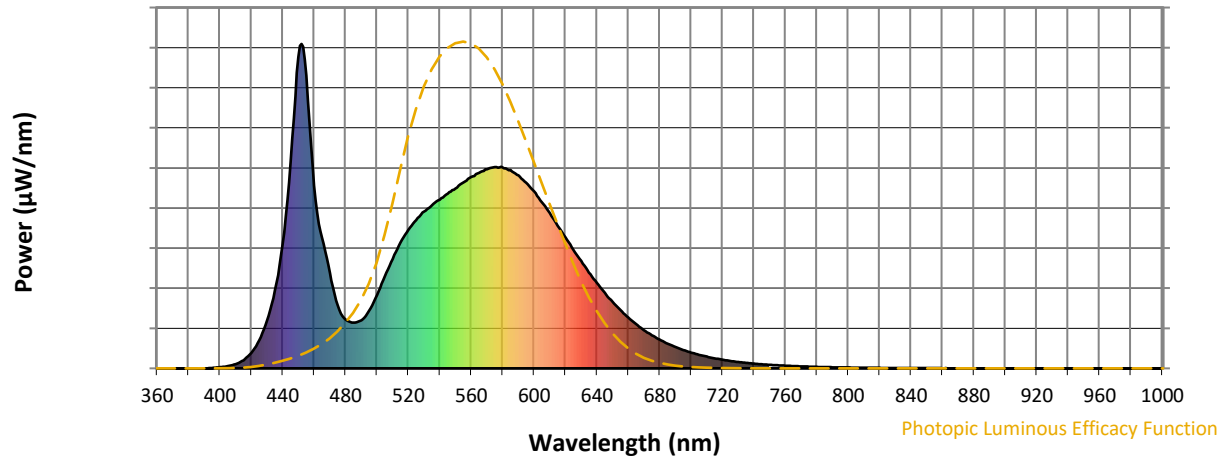
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

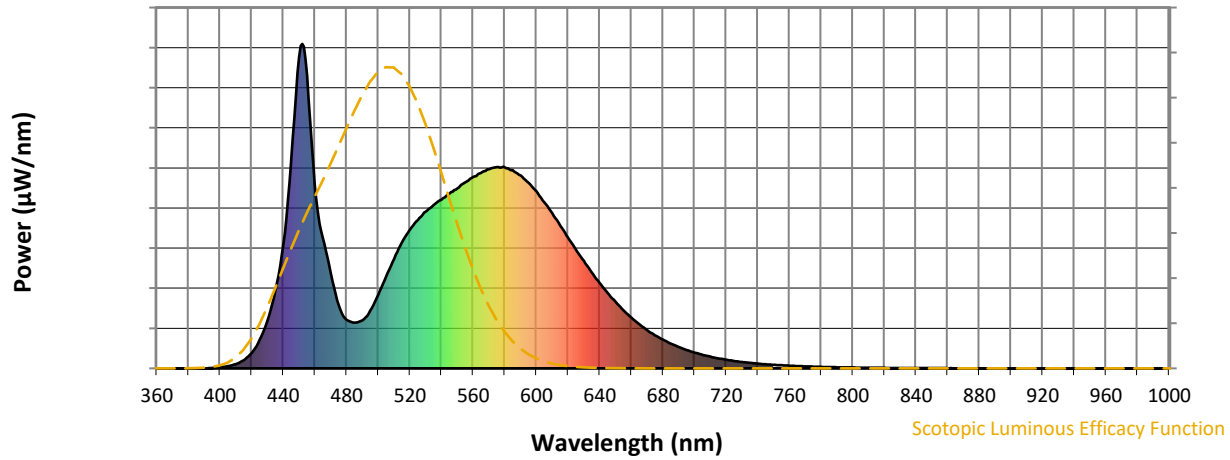


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



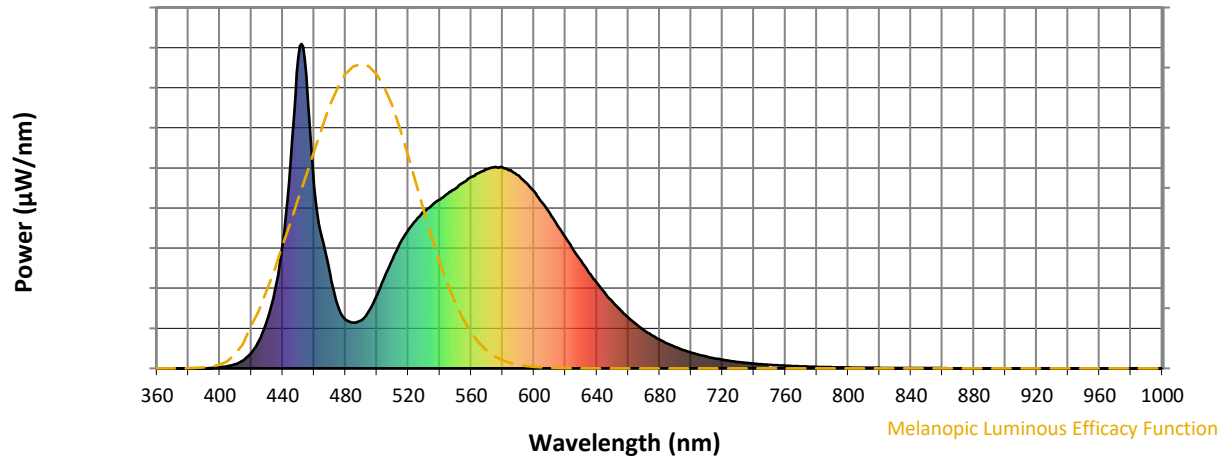
Scotopic Lumens: NR

S/P: 1.8

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

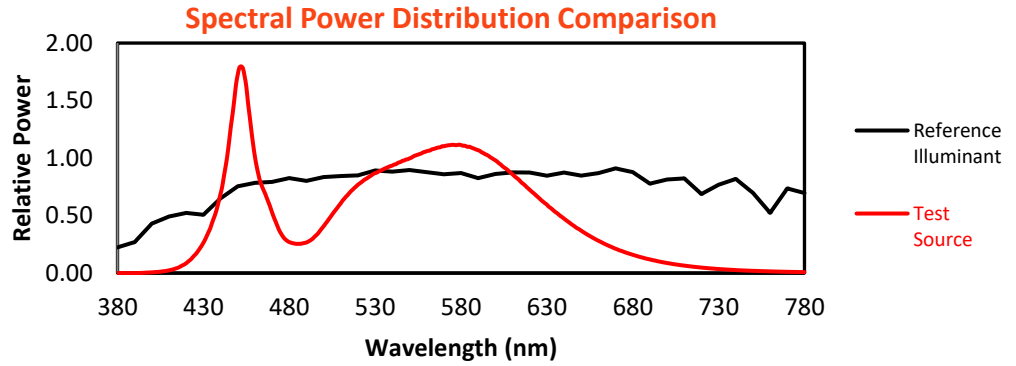
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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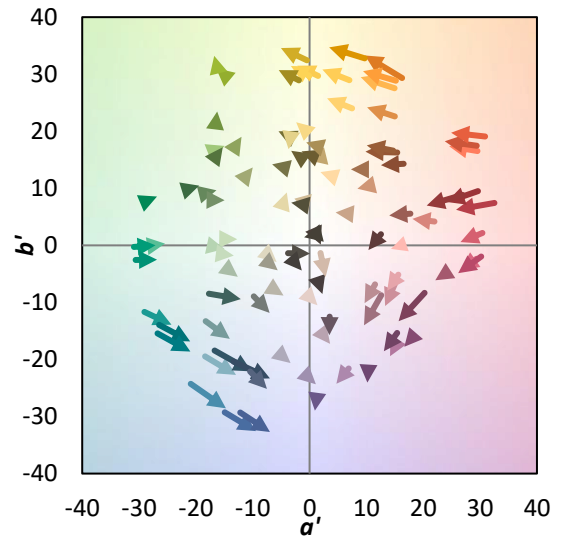
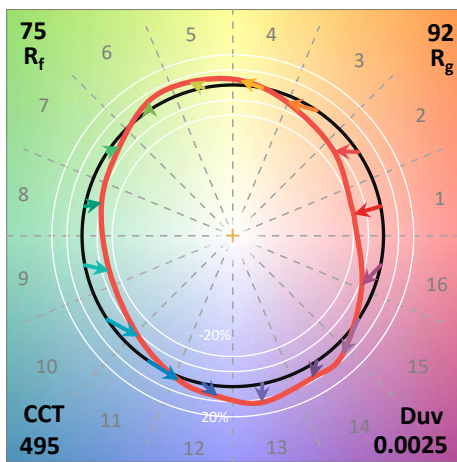
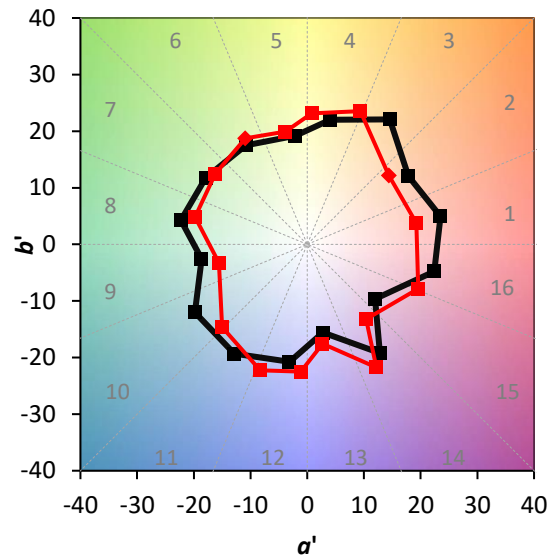
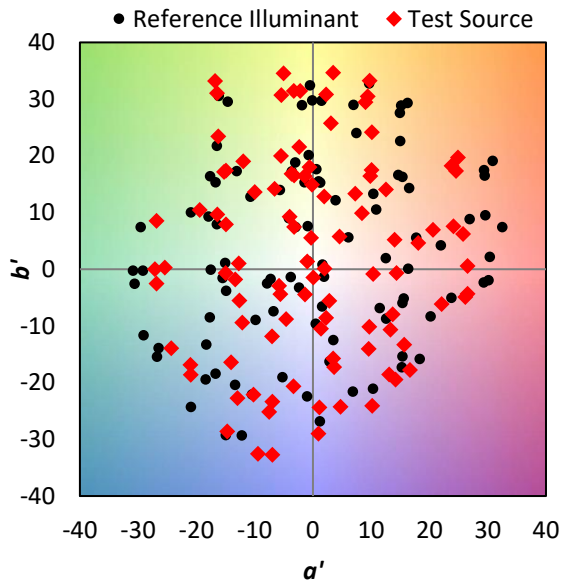
TM-30-18

Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_9 = -35.4$



Color Vector Graphics

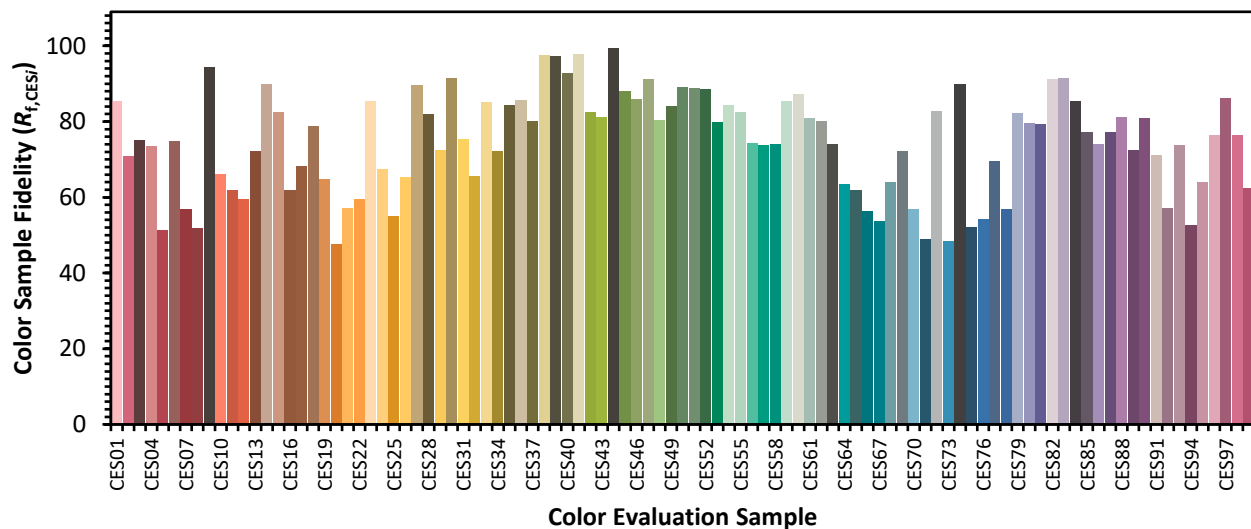


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Individual Sample Fidelity Index ($R_{f,i}$)

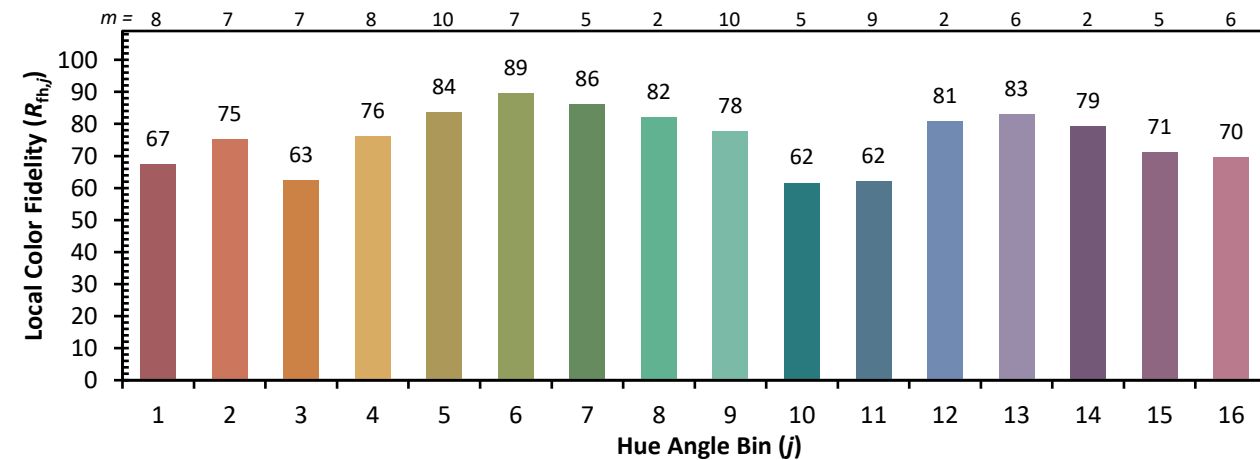
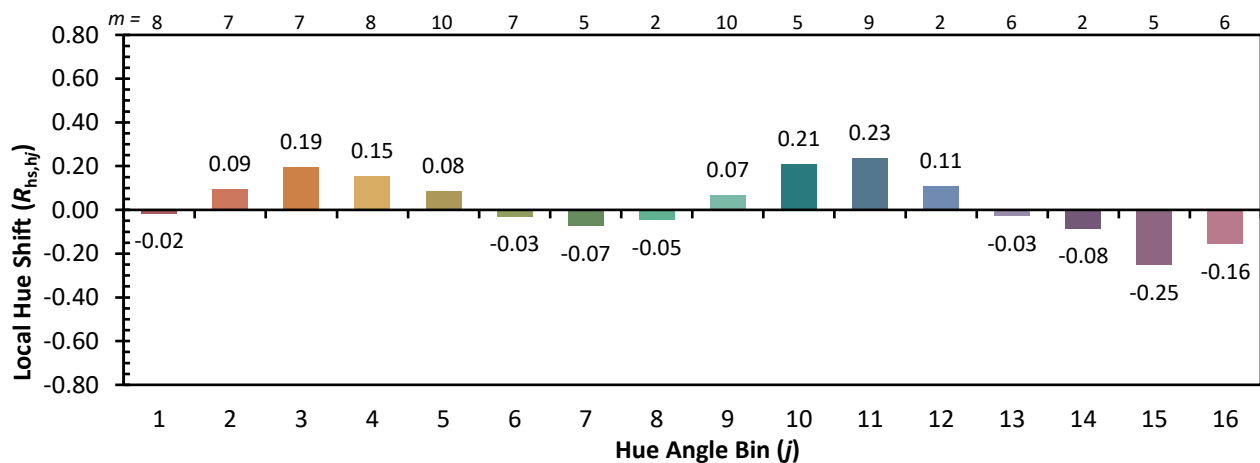
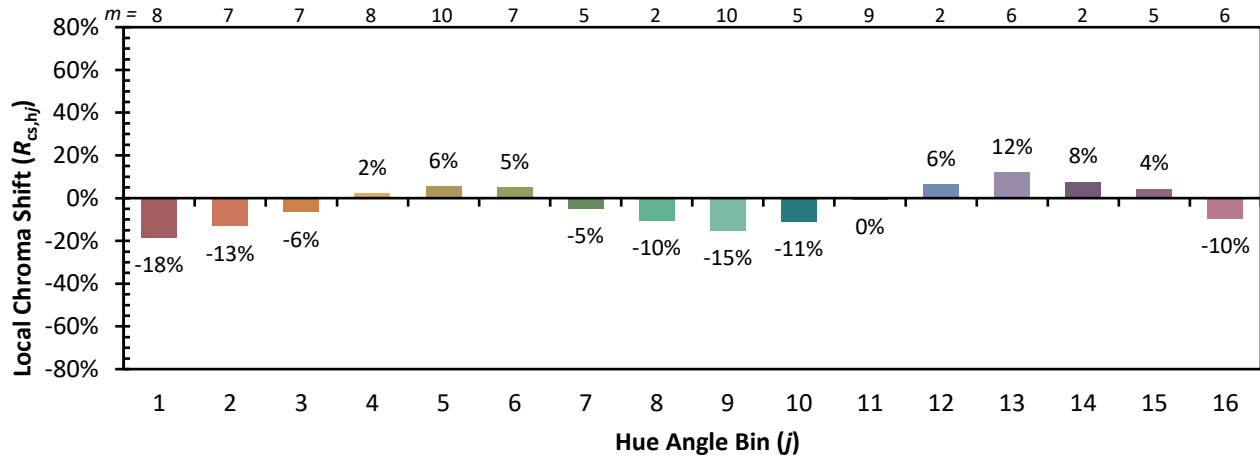
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CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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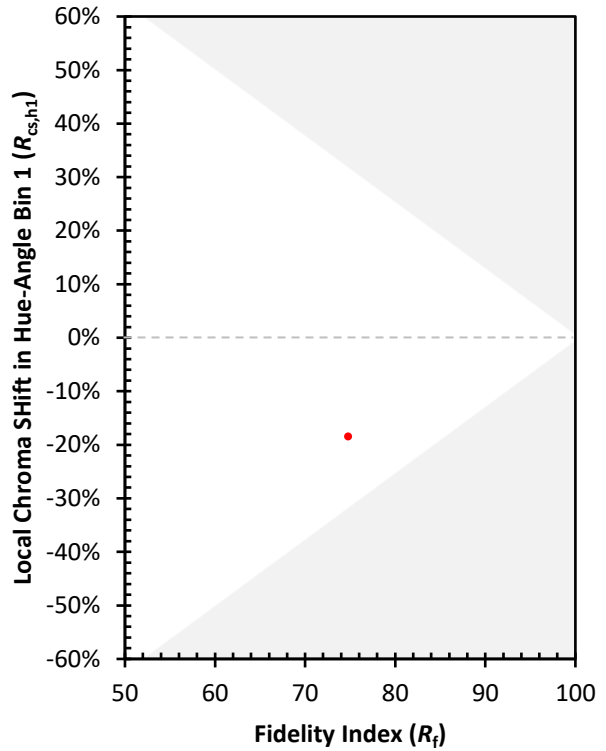
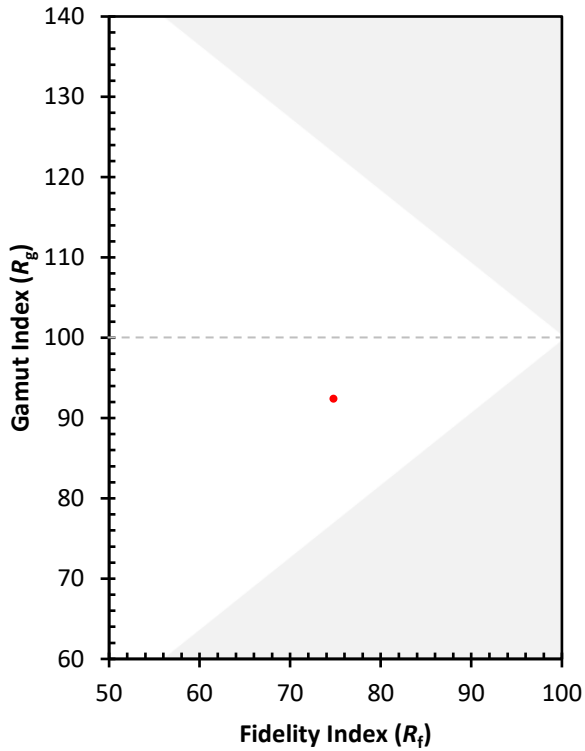
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)