

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: P856112

Luminaire Tested: **FFX-CLB-80-727-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856112
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-727-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

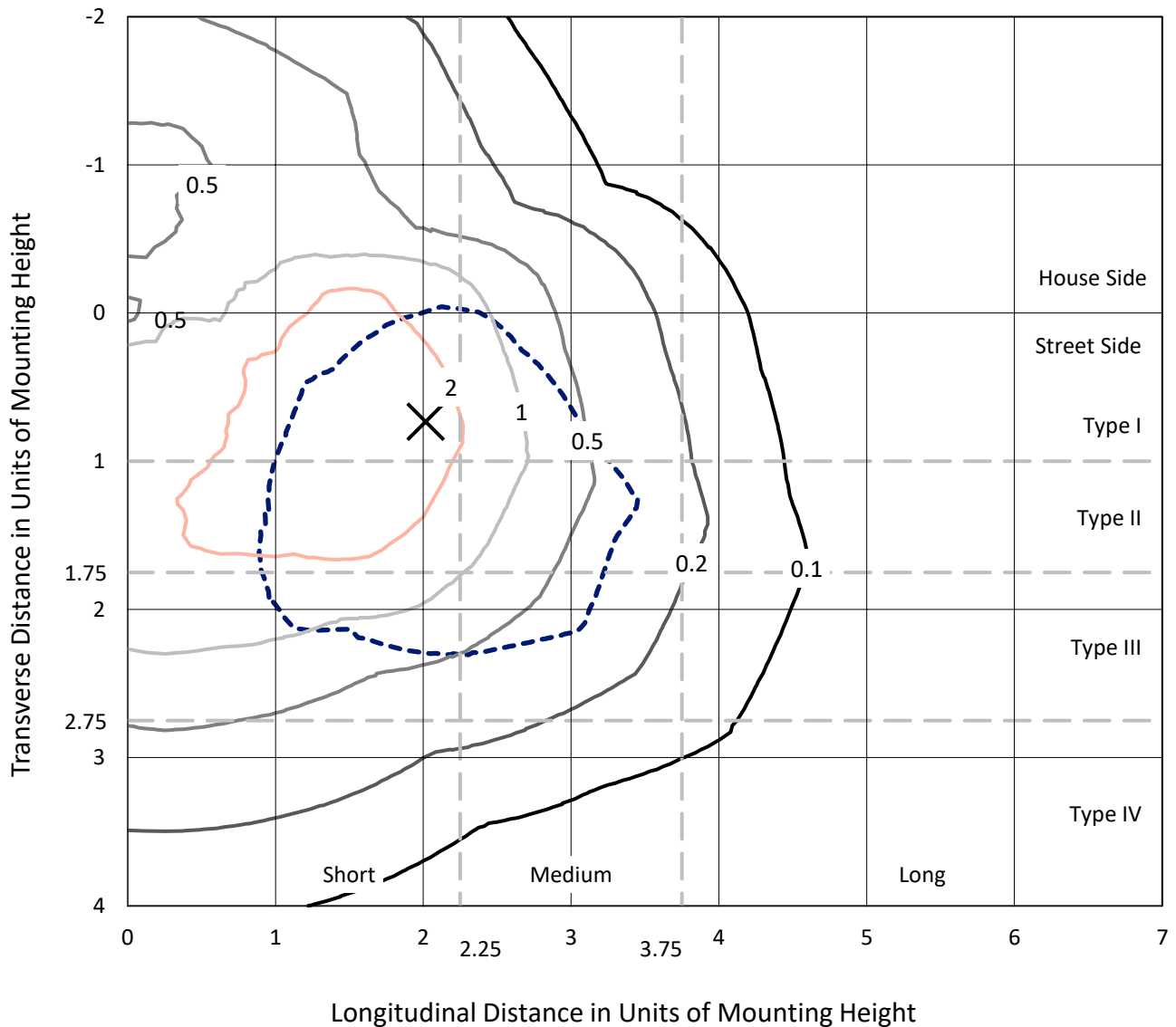
Lumens per Lamp: N/A
Luminaire Lumens: 11655.6 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

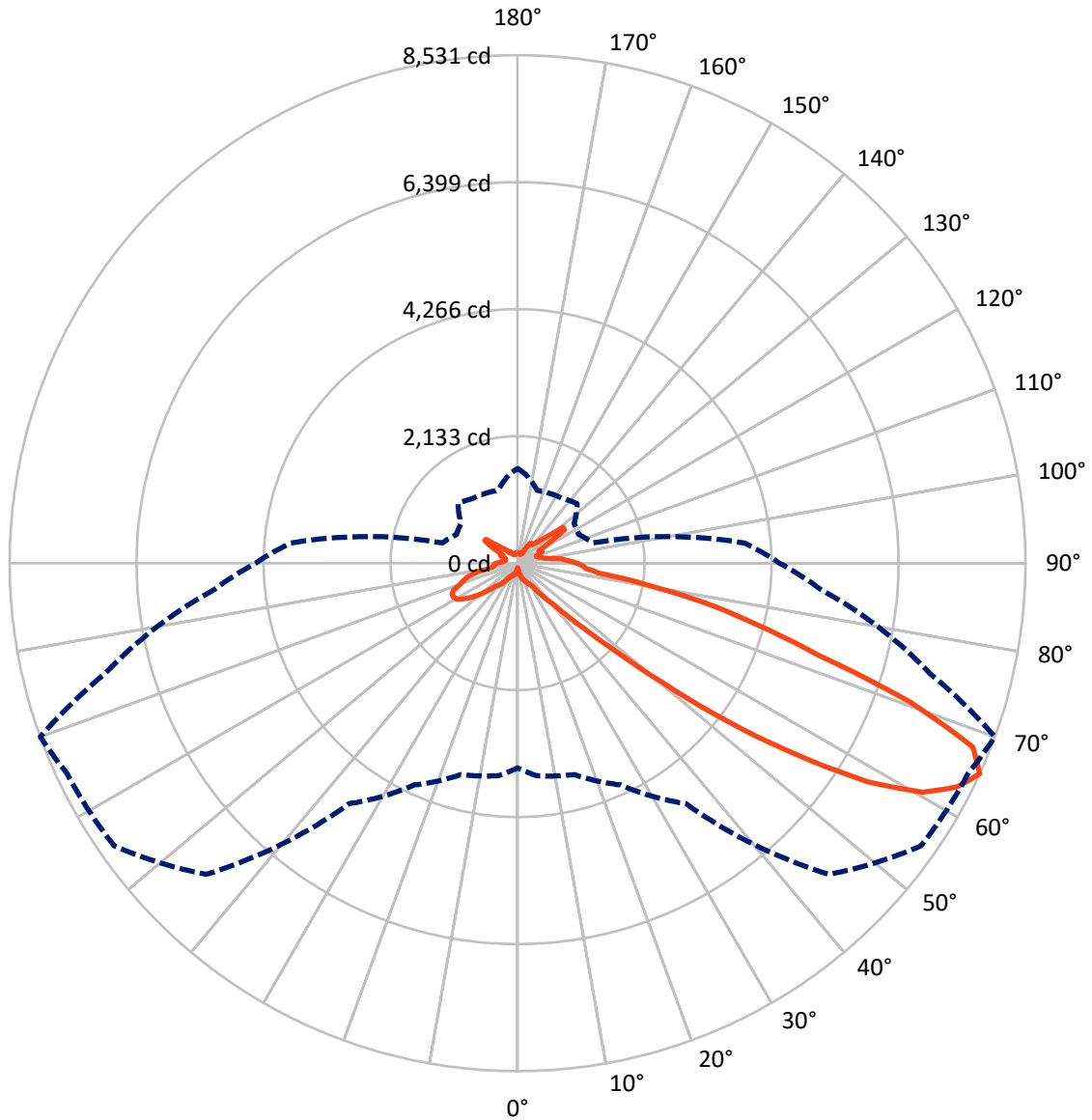
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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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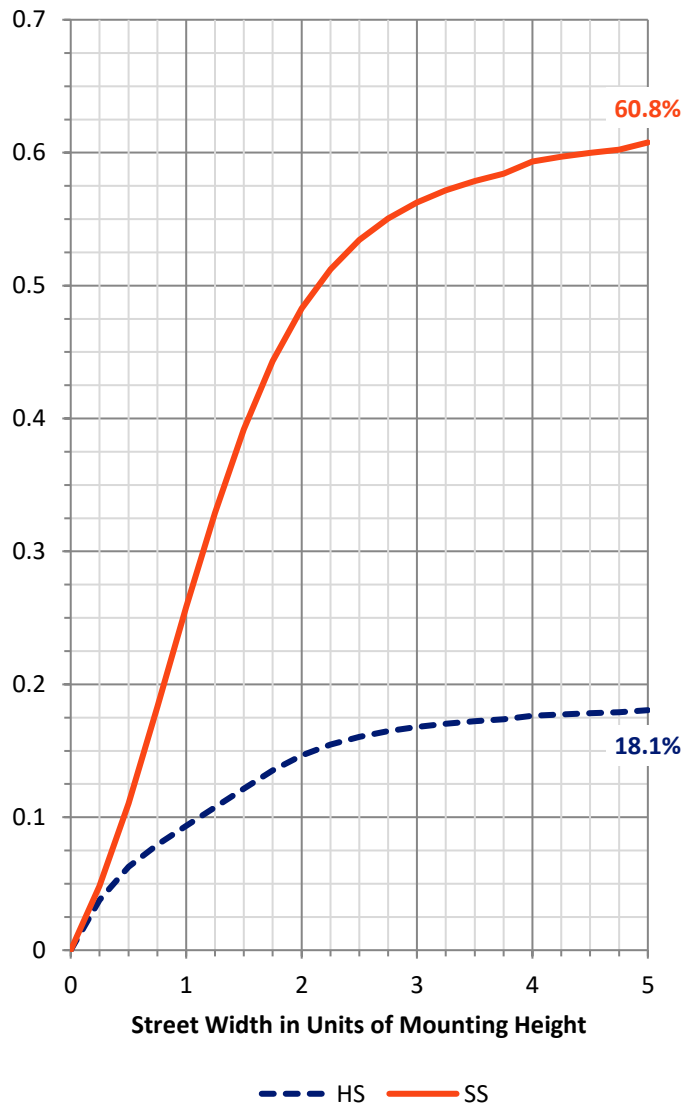
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.5	783.3	2978.8
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	7321.4	1355.4	8676.8
	% Fixture	62.8	11.6	74.4
Total	Lumens	9516.9	2138.6	11655.6
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.1
10°-20°	61.1	0.5
20°-30°	129.6	1.1
30°-40°	264.0	2.3
40°-50°	671.2	5.8
50°-60°	2157.0	18.5
60°-70°	3520.3	30.2
70°-80°	2004.1	17.2
80°-90°	697.3	6.0
90°-100°	433.9	3.7
100°-110°	276.4	2.4
110°-120°	304.0	2.6
120°-130°	514.2	4.4
130°-140°	303.1	2.6
140°-150°	163.1	1.4
150°-160°	82.5	0.7
160°-170°	45.1	0.4
170°-180°	16.3	0.1
0°-90°	9516.9	81.7
0°-180°	11655.6	100.0

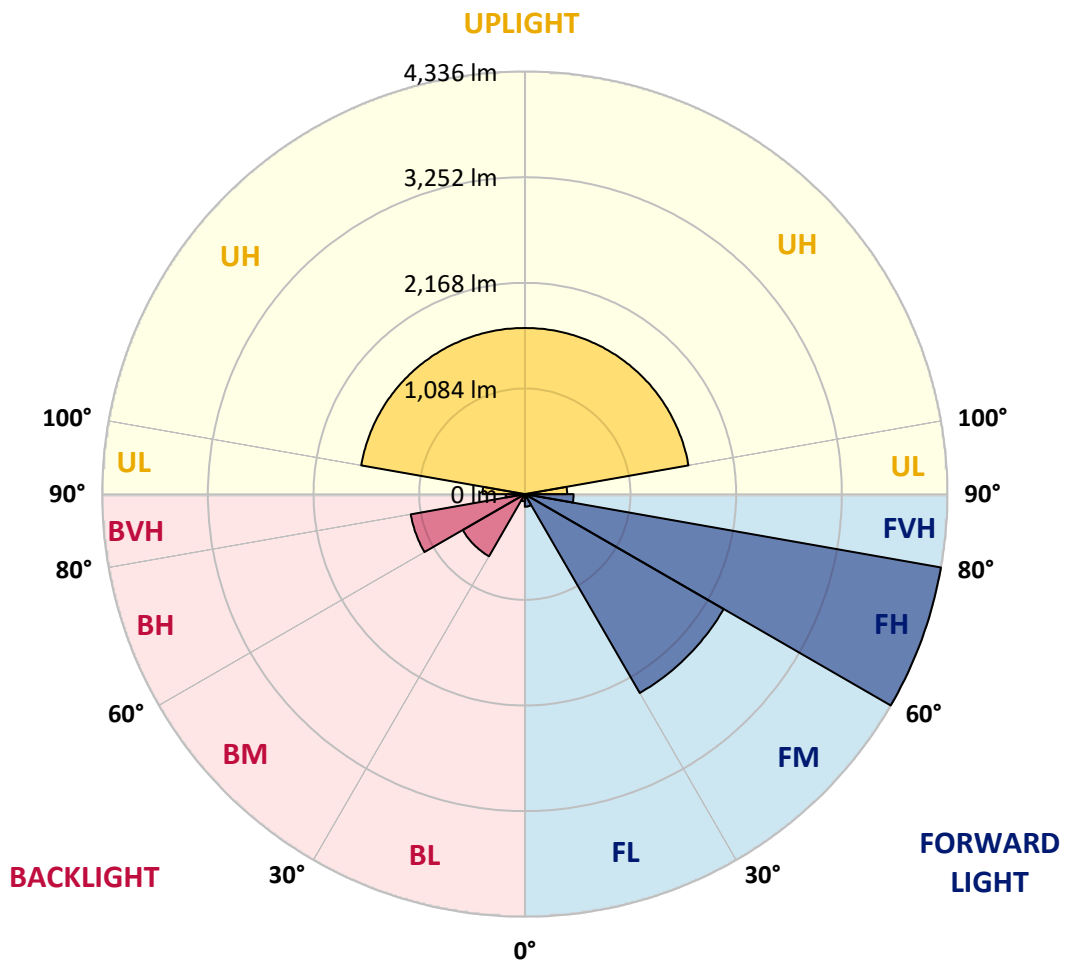


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.4	1.1			
FM (30°-60°)	2356.3	20.2			
FH (60°-80°)	4335.7	37.2			G2/5000
FVH (80°-90°)	500.0	4.3			G4/750
BL (0°-30°)	73.8	0.6	B0/110		
BM (30°-60°)	735.8	6.3	B1/1000		
BH (60°-80°)	1188.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	197.3	1.7			G2/225
UL (90°-100°)	433.9	3.7		U3/500	
UH (100°-180°)	1704.7	14.6		U5	

BUG Rating: B3-U5-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
2.5°	92.5	92.5	94.9	94.9	94.9	92.5	91.3	88.9	88.9	88.9	87.7
5°	120.1	118.9	120.1	123.7	124.9	121.3	118.9	115.3	115.3	114.1	114.1
7.5°	162.1	160.9	158.5	154.9	156.1	159.7	164.6	154.9	152.5	146.5	144.1
10°	203.0	200.6	203.0	197.0	191.0	182.6	187.4	185.0	180.2	174.2	169.4
12.5°	247.4	248.6	253.4	248.6	239.0	225.8	223.4	217.4	212.6	211.4	204.2
15°	293.1	294.3	299.1	297.9	288.3	270.2	263.0	257.0	254.6	247.4	231.8
17.5°	317.1	318.3	319.5	320.7	314.7	300.3	289.5	278.7	275.1	272.7	253.4
20°	329.1	326.7	329.1	333.9	338.7	326.7	315.9	309.9	306.3	297.9	272.7
22.5°	348.3	345.9	344.7	348.3	362.7	354.3	343.5	337.5	333.9	323.1	284.7
25°	368.7	366.3	369.9	367.5	385.6	382.0	371.1	365.1	360.3	347.1	302.7
27.5°	391.6	389.2	392.8	390.4	404.8	407.2	400.0	395.2	388.0	368.7	315.9
30°	410.8	408.4	412.0	410.8	425.2	433.6	430.0	428.8	418.0	395.2	338.7
32.5°	426.4	425.2	433.6	437.2	440.8	460.0	457.6	468.4	456.4	428.8	372.3
35°	462.4	466.0	488.8	512.9	516.5	554.9	559.7	599.4	587.3	551.3	482.8
37.5°	714.7	701.4	678.6	655.8	647.4	721.9	732.7	772.3	742.3	675.0	564.5
40°	761.5	739.9	713.5	695.4	697.8	831.2	808.3	958.5	873.2	772.3	689.4
42.5°	723.1	715.9	808.3	851.6	820.4	1014.9	976.5	1262.4	1165.1	917.6	832.4
45°	906.8	892.4	924.9	968.1	977.7	1335.6	1309.2	1608.3	1568.6	1147.1	1067.8
47.5°	1037.8	1024.5	1067.8	1214.3	1340.4	1727.2	1871.3	2302.5	2163.2	1629.9	1446.1
50°	1430.5	1428.1	1561.4	1735.6	1956.6	2512.7	2895.9	3379.9	3155.3	2307.3	1983.0
52.5°	1818.5	1823.3	1986.6	2295.3	2524.7	3507.2	4051.3	4390.0	4420.1	3008.8	2570.4
55°	2111.5	2141.6	2338.5	2856.2	3203.3	4392.4	5098.7	5361.7	5662.0	4065.7	3181.7
57.5°	2683.3	2728.9	2916.3	3423.1	3908.4	5495.1	6448.7	6477.6	6925.6	5238.0	3837.5
60°	3182.9	3289.8	3355.9	3815.9	4477.7	6548.4	7451.7	7394.0	7814.4	6209.7	4502.9
62.5°	3337.9	3460.4	3522.8	4012.9	4928.1	7139.4	7920.1	7992.1	8281.6	6891.9	4910.1
65°	3438.8	3582.9	3676.6	4110.2	4932.9	7391.6	8275.6	8352.5	8531.4	7177.8	5113.1
67.5°	3387.1	3570.9	3691.0	4076.5	4673.5	7197.0	8204.7	8057.0	8246.8	6938.8	4886.1
70°	2957.1	3149.3	3270.6	3557.7	3907.2	6051.2	7073.3	6825.9	6992.8	5791.7	4017.7
72.5°	2409.4	2504.3	2578.8	2736.1	2945.1	4463.3	5374.9	5169.6	5269.2	4357.6	3011.2
75°	1979.4	2008.2	2100.7	2190.8	2225.6	3264.6	4257.9	4070.5	4187.0	3317.4	2396.2
77.5°	1437.7	1454.5	1586.7	1601.1	1592.7	2240.1	3355.9	3191.3	3228.6	2465.9	1788.4
80°	834.8	867.2	1040.2	1031.7	1017.3	1380.1	2362.6	2296.5	2181.2	1674.3	1238.3
82.5°	588.5	621.0	700.2	718.3	708.7	990.9	1533.8	1490.6	1365.7	1165.1	856.4
85°	619.8	623.4	627.0	635.4	619.8	884.0	1174.7	1153.1	1154.3	963.3	706.2
87.5°	611.4	625.8	631.8	635.4	619.8	839.6	1091.8	1064.2	1077.4	915.2	685.8
90°	536.9	563.3	565.7	571.7	563.3	749.5	980.1	953.7	970.5	825.2	624.6
92.5°	438.4	452.8	469.6	492.5	482.8	641.4	833.6	814.3	834.8	714.7	548.9
95°	415.6	431.2	442.0	457.6	443.2	584.9	753.1	714.7	731.5	625.8	473.2
97.5°	343.5	356.7	366.3	372.3	361.5	461.2	577.7	551.3	550.1	484.0	378.3
100°	293.1	301.5	309.9	315.9	306.3	382.0	457.6	448.0	450.4	400.0	325.5
102.5°	278.7	283.5	296.7	297.9	287.1	348.3	412.0	408.4	413.2	369.9	305.1
105°	272.7	276.3	287.1	283.5	273.9	325.5	379.5	382.0	382.0	344.7	285.9
107.5°	254.6	260.6	272.7	266.6	261.8	300.3	349.5	341.1	343.5	320.7	271.4
110°	252.2	257.0	269.0	264.2	260.6	293.1	336.3	333.9	337.5	317.1	278.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	313.5	308.7	318.3	308.7	314.7	342.3	388.0	383.2	394.0	386.8	348.3
115°	386.8	389.2	398.8	379.5	385.6	413.2	438.4	446.8	456.4	445.6	406.0
117.5°	357.9	378.3	366.3	363.9	359.1	380.8	377.1	398.8	408.4	400.0	384.4
120°	383.2	408.4	373.5	355.5	348.3	402.4	428.8	427.6	420.4	403.6	371.1
122.5°	572.9	576.5	578.9	633.0	613.8	666.6	682.2	661.8	661.8	683.4	617.4
125°	893.6	897.2	894.8	918.8	905.6	956.1	976.5	975.3	963.3	952.5	887.6
127.5°	903.2	903.2	894.8	881.6	893.6	942.9	944.1	989.7	974.1	945.3	885.2
130°	630.6	635.4	665.4	675.0	691.8	702.6	690.6	730.3	737.5	732.7	691.8
132.5°	522.5	530.9	563.3	575.3	586.1	587.3	582.5	613.8	621.0	621.0	603.0
135°	451.6	461.2	464.8	458.8	474.4	486.4	496.1	521.3	518.9	514.1	498.5
137.5°	394.0	397.6	386.8	373.5	382.0	416.8	436.0	462.4	461.2	452.8	426.4
140°	332.7	333.9	327.9	321.9	330.3	360.3	378.3	407.2	403.6	397.6	366.3
142.5°	252.2	255.8	271.4	283.5	303.9	366.3	356.7	382.0	400.0	414.4	342.3
145°	265.4	260.6	258.2	271.4	297.9	388.0	360.3	392.8	401.2	410.8	327.9
147.5°	306.3	308.7	305.1	296.7	332.7	361.5	345.9	374.7	379.5	377.1	343.5
150°	240.2	243.8	245.0	241.4	285.9	284.7	269.0	290.7	293.1	293.1	270.2
152.5°	195.8	197.0	194.6	192.2	221.0	216.2	209.0	216.2	215.0	213.8	209.0
155°	186.2	186.2	183.8	185.0	204.2	199.4	194.6	199.4	197.0	193.4	188.6
157.5°	171.8	173.0	173.0	176.6	188.6	180.2	175.4	177.8	175.4	173.0	173.0
160°	162.1	162.1	163.4	168.2	175.4	167.0	163.4	164.6	163.4	160.9	162.1
162.5°	158.5	158.5	159.7	162.1	163.4	158.5	154.9	154.9	154.9	154.9	158.5
165°	156.1	156.1	156.1	157.3	157.3	153.7	152.5	153.7	154.9	156.1	160.9
167.5°	160.9	160.9	160.9	160.9	159.7	157.3	156.1	157.3	158.5	159.7	163.4
170°	168.2	167.0	167.0	165.8	164.6	162.1	160.9	159.7	159.7	160.9	162.1
172.5°	173.0	173.0	171.8	171.8	170.6	168.2	165.8	164.6	164.6	164.6	164.6
175°	179.0	179.0	179.0	179.0	177.8	175.4	174.2	171.8	171.8	171.8	171.8
177.5°	186.2	186.2	186.2	186.2	183.8	181.4	179.0	176.6	176.6	176.6	175.4
180°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
2.5°	86.5	85.3	81.7	80.5	79.3	76.9	74.5	73.3	72.1	72.1	73.3
5°	115.3	114.1	114.1	110.5	106.9	100.9	98.5	98.5	99.7	100.9	103.3
7.5°	145.3	147.7	150.1	144.1	133.3	118.9	110.5	112.9	118.9	123.7	123.7
10°	168.2	168.2	176.6	169.4	151.3	133.3	121.3	118.9	120.1	121.3	122.5
12.5°	200.6	200.6	195.8	176.6	158.5	140.5	130.9	128.5	128.5	123.7	122.5
15°	224.6	217.4	200.6	182.6	167.0	148.9	138.1	134.5	130.9	127.3	126.1
17.5°	239.0	225.8	203.0	186.2	170.6	156.1	145.3	138.1	134.5	135.7	135.7
20°	255.8	241.4	221.0	203.0	183.8	164.6	151.3	140.5	136.9	138.1	136.9
22.5°	269.0	254.6	234.2	213.8	193.4	173.0	157.3	144.1	139.3	140.5	140.5
25°	284.7	272.7	251.0	227.0	201.8	182.6	167.0	151.3	144.1	142.9	142.9
27.5°	300.3	291.9	269.0	240.2	213.8	191.0	175.4	157.3	148.9	145.3	145.3
30°	320.7	311.1	288.3	253.4	224.6	203.0	186.2	167.0	154.9	148.9	147.7
32.5°	353.1	342.3	314.7	277.5	236.6	215.0	197.0	175.4	159.7	152.5	151.3
35°	458.8	442.0	398.8	355.5	289.5	240.2	210.2	182.6	164.6	154.9	153.7
37.5°	524.9	484.0	426.4	397.6	325.5	294.3	253.4	209.0	171.8	159.7	157.3
40°	631.8	575.3	503.3	446.8	317.1	321.9	296.7	260.6	204.2	168.2	164.6
42.5°	721.9	651.0	541.7	468.4	318.3	336.3	317.1	287.1	245.0	199.4	192.2
45°	890.0	798.7	629.4	503.3	326.7	357.9	333.9	302.7	265.4	234.2	230.6
47.5°	1202.3	1078.6	786.7	560.9	382.0	415.6	372.3	331.5	297.9	261.8	255.8
50°	1645.5	1497.8	968.1	606.6	476.8	547.7	469.6	401.2	362.7	336.3	332.7
52.5°	2156.0	2001.0	1101.4	690.6	592.1	711.1	621.0	541.7	491.3	491.3	498.5
55°	2749.3	2594.4	1208.3	807.1	733.9	891.2	793.9	729.1	705.0	807.1	834.8
57.5°	3337.9	3140.9	1280.4	926.1	899.6	1102.6	986.1	930.9	975.3	1278.0	1371.7
60°	3874.8	3549.3	1336.8	1039.0	1041.4	1270.8	1184.3	1180.7	1249.1	1635.9	1754.8
62.5°	4184.6	3741.4	1333.2	1103.8	1124.2	1375.3	1303.2	1322.4	1360.9	1696.0	1786.0
65°	4397.2	3832.7	1305.6	1132.6	1159.1	1412.5	1322.4	1290.0	1264.8	1501.4	1587.9
67.5°	4250.7	3618.9	1243.1	1090.6	1137.4	1358.4	1239.5	1147.1	1097.8	1217.9	1276.8
70°	3560.1	3018.4	1100.2	981.3	1024.5	1144.7	1030.5	939.3	887.6	952.5	980.1
72.5°	2696.5	2296.5	992.1	917.6	898.4	946.5	838.4	736.3	705.0	747.1	753.1
75°	2147.6	1796.9	912.8	830.0	754.3	801.1	669.0	545.3	527.3	527.3	517.7
77.5°	1610.7	1332.0	778.3	646.2	556.1	633.0	498.5	379.5	355.5	350.7	337.5
80°	1079.8	906.8	523.7	428.8	400.0	469.6	354.3	278.7	279.9	278.7	263.0
82.5°	754.3	700.2	425.2	373.5	342.3	369.9	320.7	267.8	265.4	267.8	251.0
85°	669.0	641.4	412.0	385.6	353.1	356.7	307.5	253.4	254.6	259.4	245.0
87.5°	642.6	611.4	413.2	372.3	344.7	330.3	278.7	234.2	241.4	246.2	234.2
90°	578.9	547.7	379.5	336.3	307.5	287.1	246.2	222.2	231.8	236.6	225.8
92.5°	502.1	469.6	315.9	296.7	289.5	289.5	258.2	236.6	242.6	245.0	235.4
95°	432.4	401.2	281.1	260.6	254.6	255.8	230.6	212.6	216.2	215.0	207.8
97.5°	349.5	330.3	245.0	231.8	225.8	223.4	206.6	193.4	200.6	205.4	199.4
100°	308.7	299.1	236.6	227.0	218.6	217.4	203.0	194.6	200.6	207.8	203.0
102.5°	288.3	281.1	225.8	212.6	206.6	204.2	194.6	185.0	191.0	198.2	194.6
105°	271.4	260.6	216.2	204.2	195.8	194.6	185.0	173.0	176.6	186.2	183.8
107.5°	257.0	249.8	215.0	201.8	191.0	191.0	180.2	170.6	171.8	175.4	175.4
110°	269.0	260.6	223.4	213.8	199.4	194.6	192.2	185.0	179.0	176.6	176.6



REPORT NUMBER: P856112
 CATALOG NUMBER: FFX-CLB-80-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	332.7	317.1	279.9	269.0	245.0	228.2	212.6	198.2	188.6	185.0	182.6
115°	392.8	374.7	330.3	302.7	270.2	245.0	223.4	207.8	193.4	188.6	193.4
117.5°	404.8	356.7	288.3	265.4	246.2	230.6	218.6	206.6	195.8	199.4	195.8
120°	401.2	342.3	290.7	323.1	290.7	254.6	225.8	225.8	222.2	204.2	207.8
122.5°	617.4	576.5	514.1	494.9	403.6	368.7	314.7	269.0	224.6	199.4	187.4
125°	845.6	805.9	709.9	636.6	545.3	449.2	344.7	265.4	207.8	183.8	187.4
127.5°	850.4	814.3	723.1	599.4	479.2	384.4	287.1	235.4	203.0	187.4	185.0
130°	663.0	628.2	550.1	455.2	379.5	317.1	258.2	212.6	183.8	171.8	168.2
132.5°	574.1	542.9	470.8	384.4	329.1	279.9	230.6	185.0	165.8	157.3	158.5
135°	482.8	445.6	377.1	330.3	295.5	251.0	206.6	169.4	159.7	157.3	156.1
137.5°	409.6	383.2	335.1	299.1	265.4	225.8	181.4	158.5	154.9	157.3	154.9
140°	348.3	326.7	300.3	269.0	228.2	191.0	162.1	151.3	157.3	158.5	157.3
142.5°	300.3	278.7	251.0	209.0	189.8	173.0	165.8	157.3	157.3	156.1	154.9
145°	251.0	222.2	209.0	215.0	203.0	186.2	173.0	156.1	150.1	150.1	151.3
147.5°	288.3	258.2	241.4	228.2	205.4	181.4	160.9	145.3	142.9	147.7	146.5
150°	248.6	221.0	209.0	191.0	176.6	158.5	145.3	139.3	140.5	146.5	146.5
152.5°	198.2	179.0	171.8	167.0	159.7	148.9	141.7	139.3	141.7	144.1	144.1
155°	186.2	175.4	167.0	163.4	154.9	146.5	140.5	139.3	141.7	144.1	146.5
157.5°	174.2	170.6	159.7	156.1	148.9	145.3	141.7	141.7	142.9	145.3	147.7
160°	165.8	164.6	154.9	153.7	148.9	146.5	146.5	147.7	148.9	148.9	148.9
162.5°	160.9	160.9	157.3	154.9	153.7	152.5	156.1	157.3	156.1	156.1	156.1
165°	162.1	163.4	159.7	157.3	156.1	158.5	164.6	164.6	162.1	160.9	159.7
167.5°	163.4	164.6	162.1	160.9	160.9	163.4	165.8	164.6	163.4	162.1	160.9
170°	162.1	163.4	163.4	164.6	164.6	164.6	167.0	167.0	164.6	163.4	163.4
172.5°	164.6	165.8	167.0	168.2	169.4	168.2	169.4	169.4	169.4	169.4	170.6
175°	171.8	171.8	173.0	173.0	171.8	173.0	173.0	173.0	174.2	176.6	176.6
177.5°	175.4	175.4	174.2	174.2	173.0	174.2	174.2	174.2	174.2	175.4	174.2
180°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8

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.

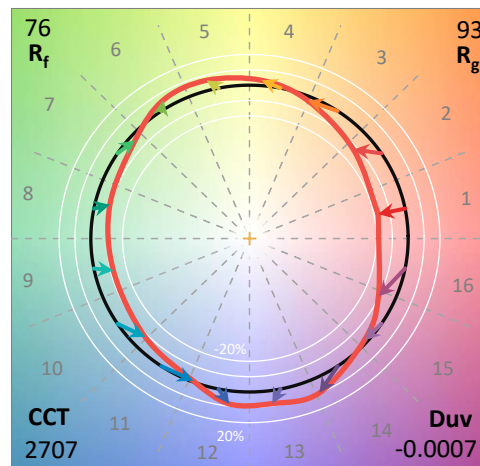
Test Information

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		



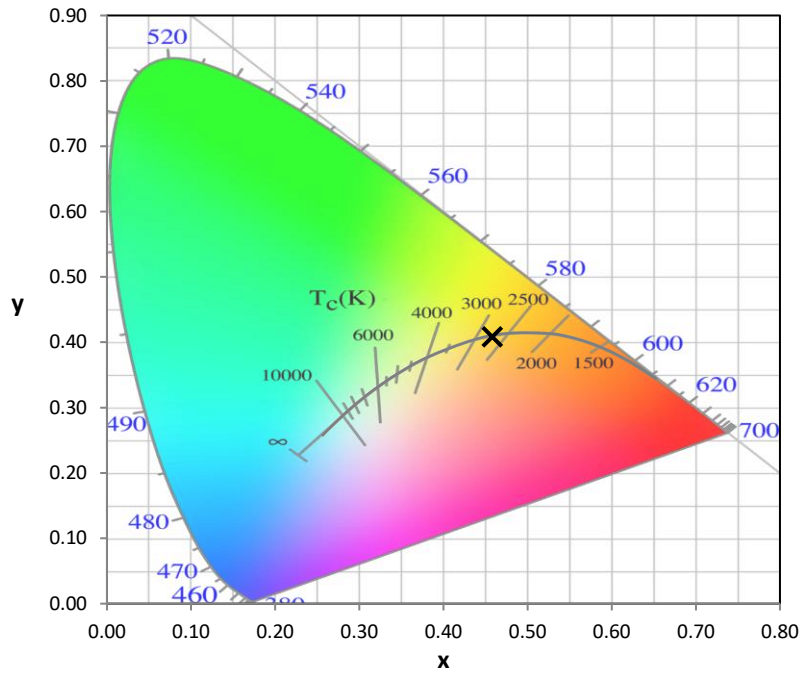
Test Conditions
 Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

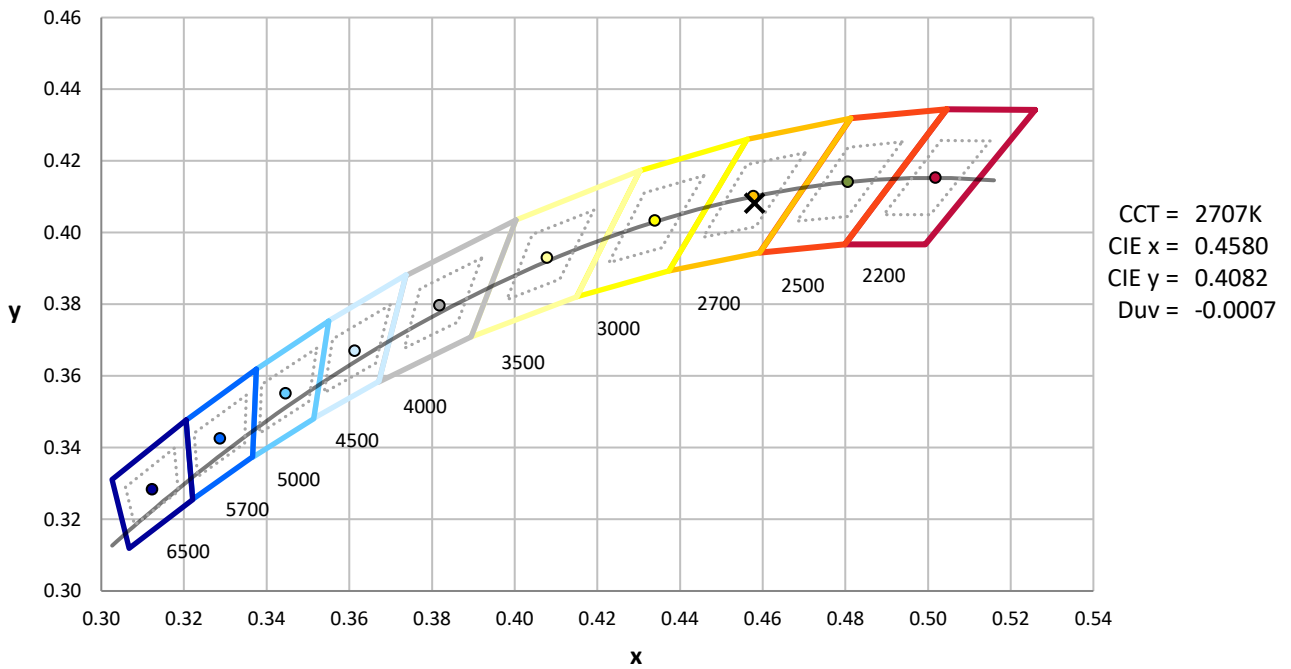
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-3

CIE 1931 Chromaticity Diagram



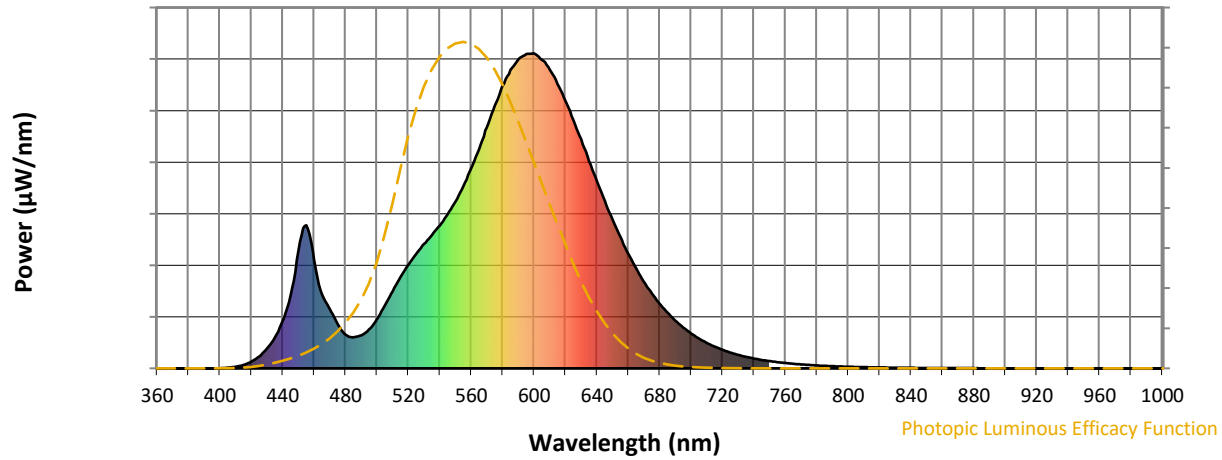
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

Photopic Flux vs. Wavelength

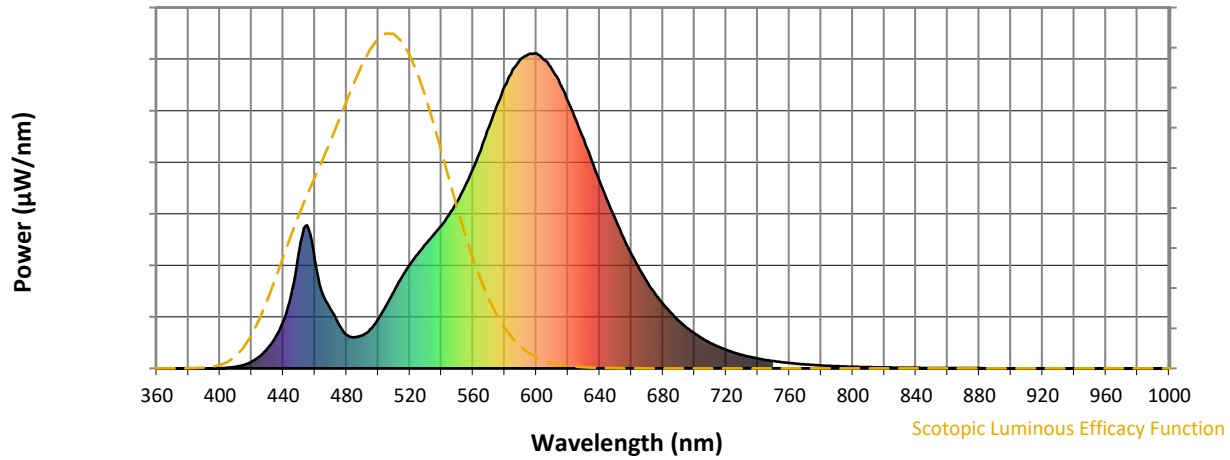


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2406-133-3

Scotopic Flux vs. Wavelength



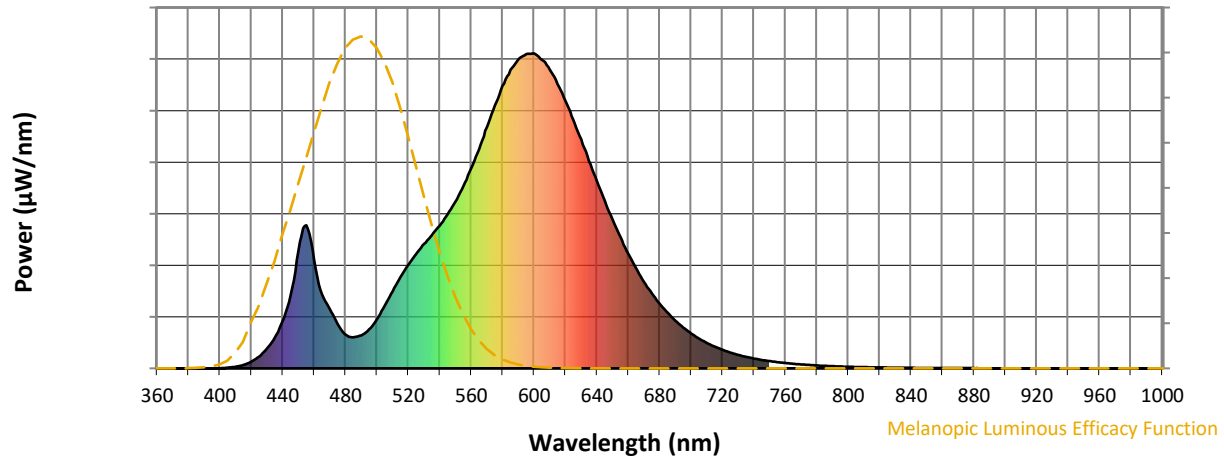
Scotopic Lumens: NR

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

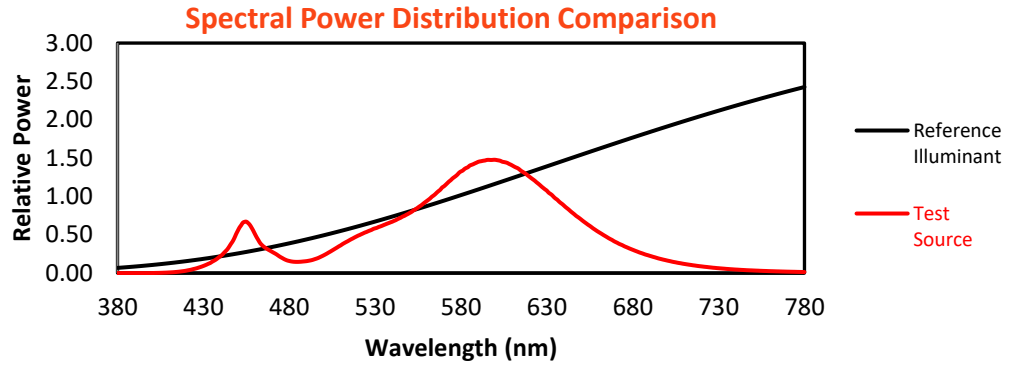
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156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

REPORT NUMBER: SP1-2406-133-3

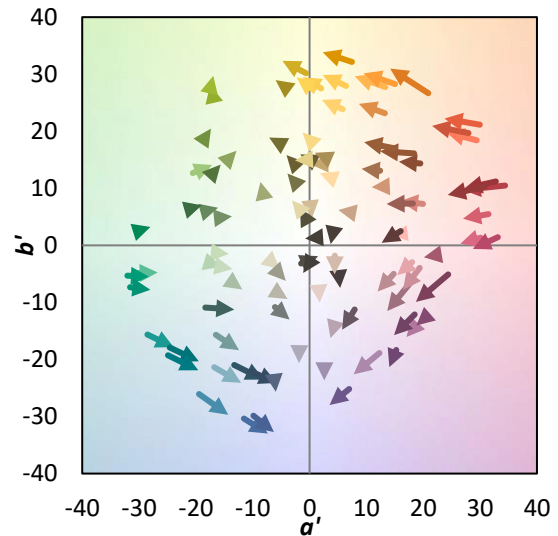
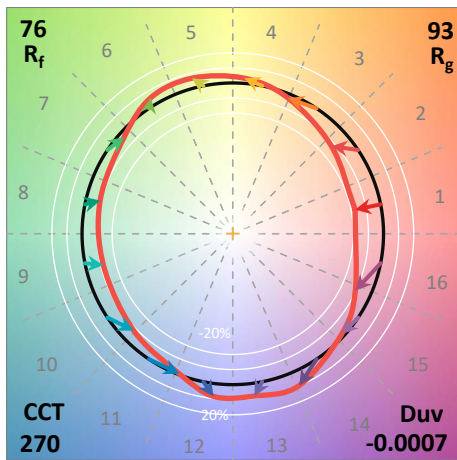
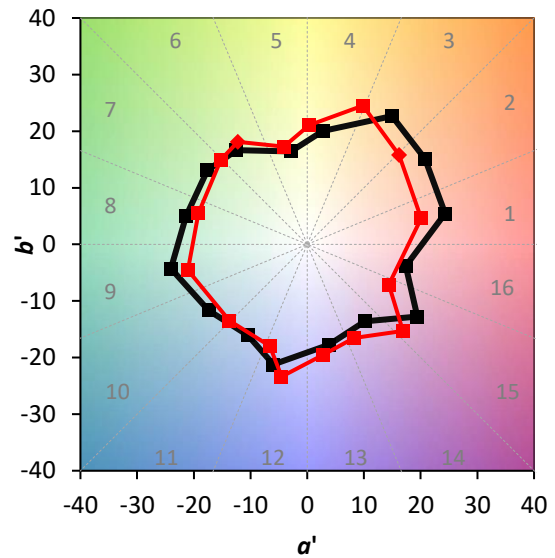
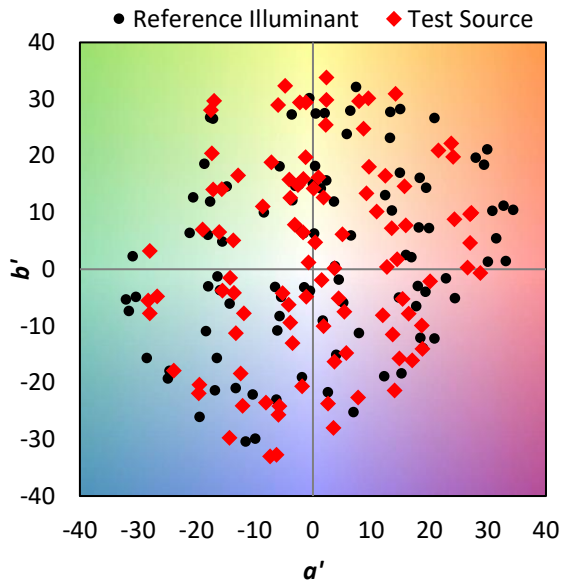
TM-30-18

Summary

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



Color Vector Graphics

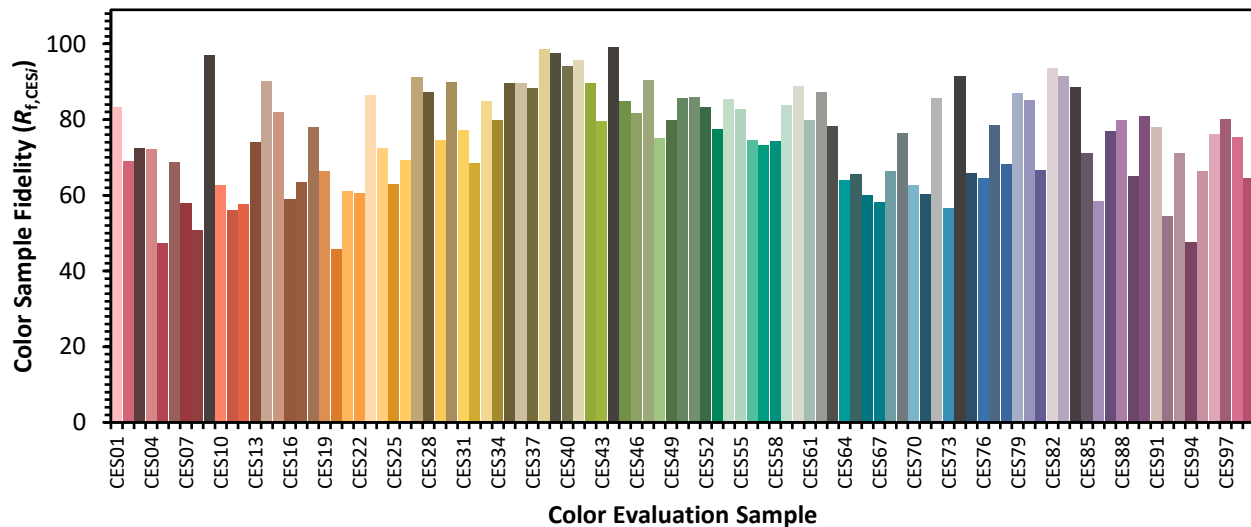


REPORT NUMBER: SP1-2406-133-3

TM-30-18

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

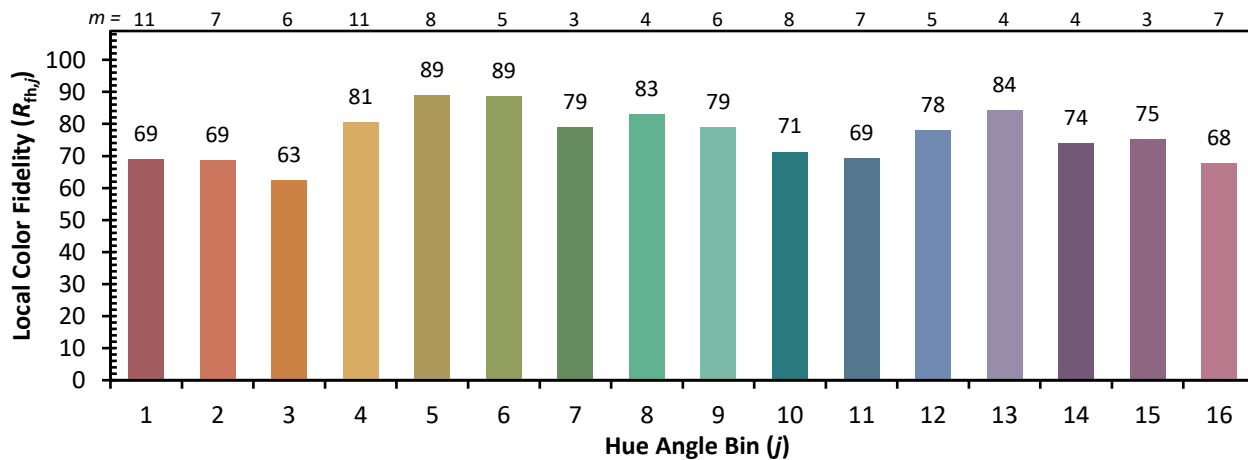
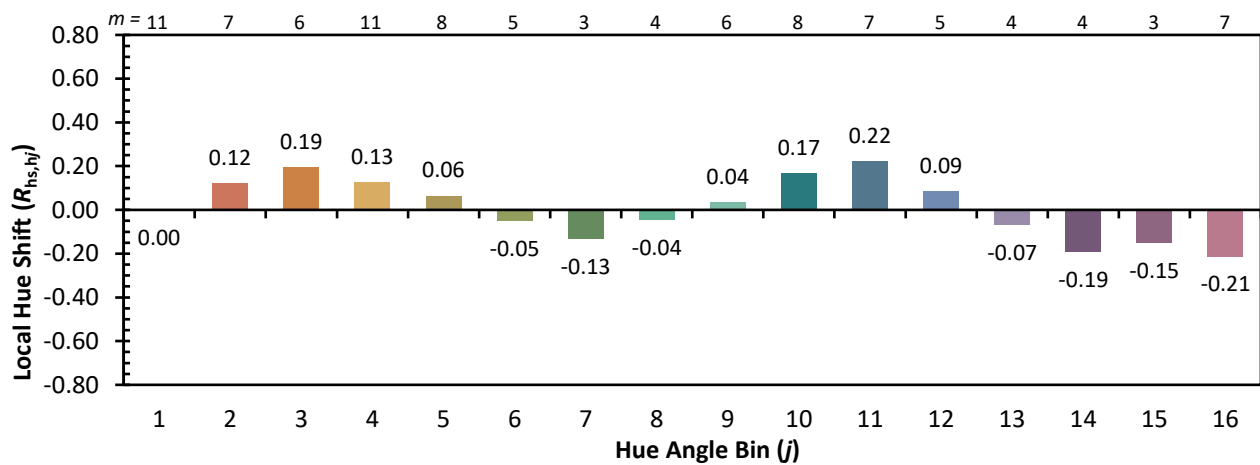
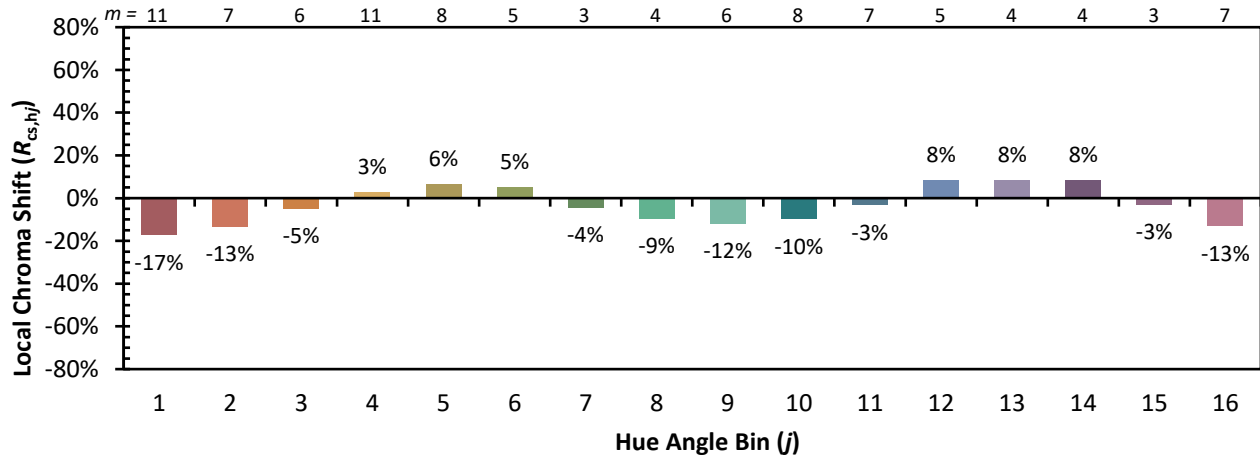
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82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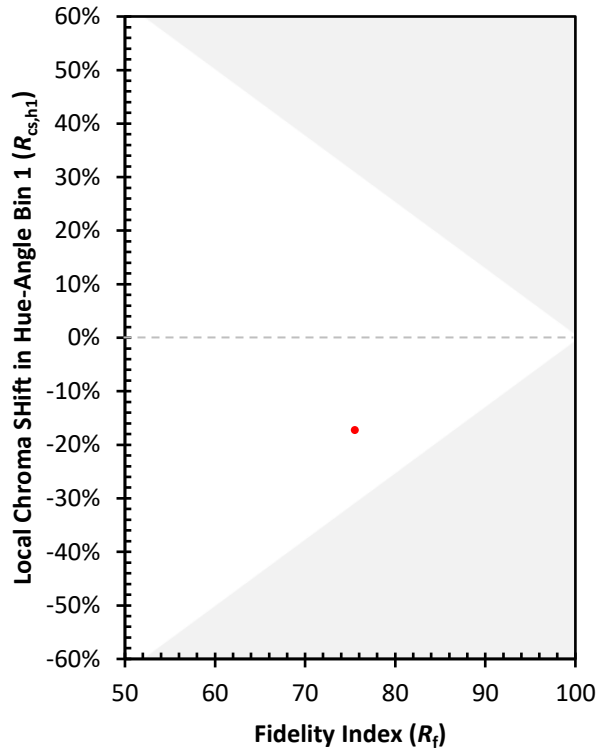
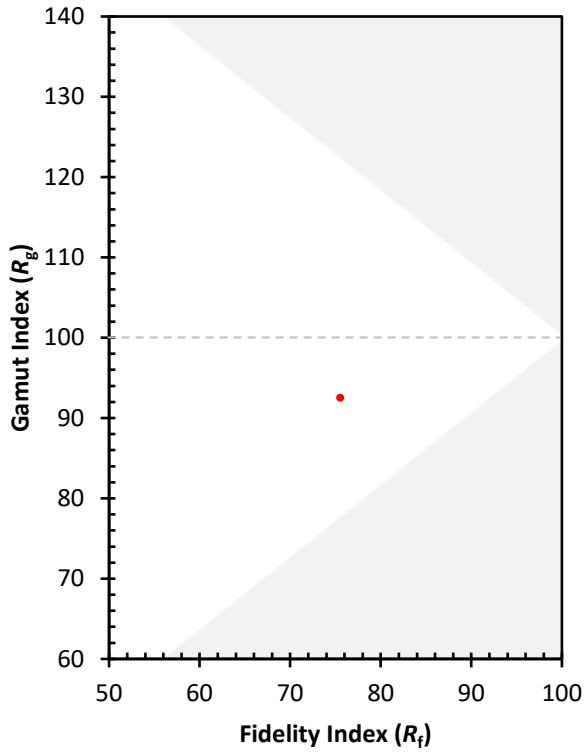
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)