

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: P856194

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856194
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-70-722-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

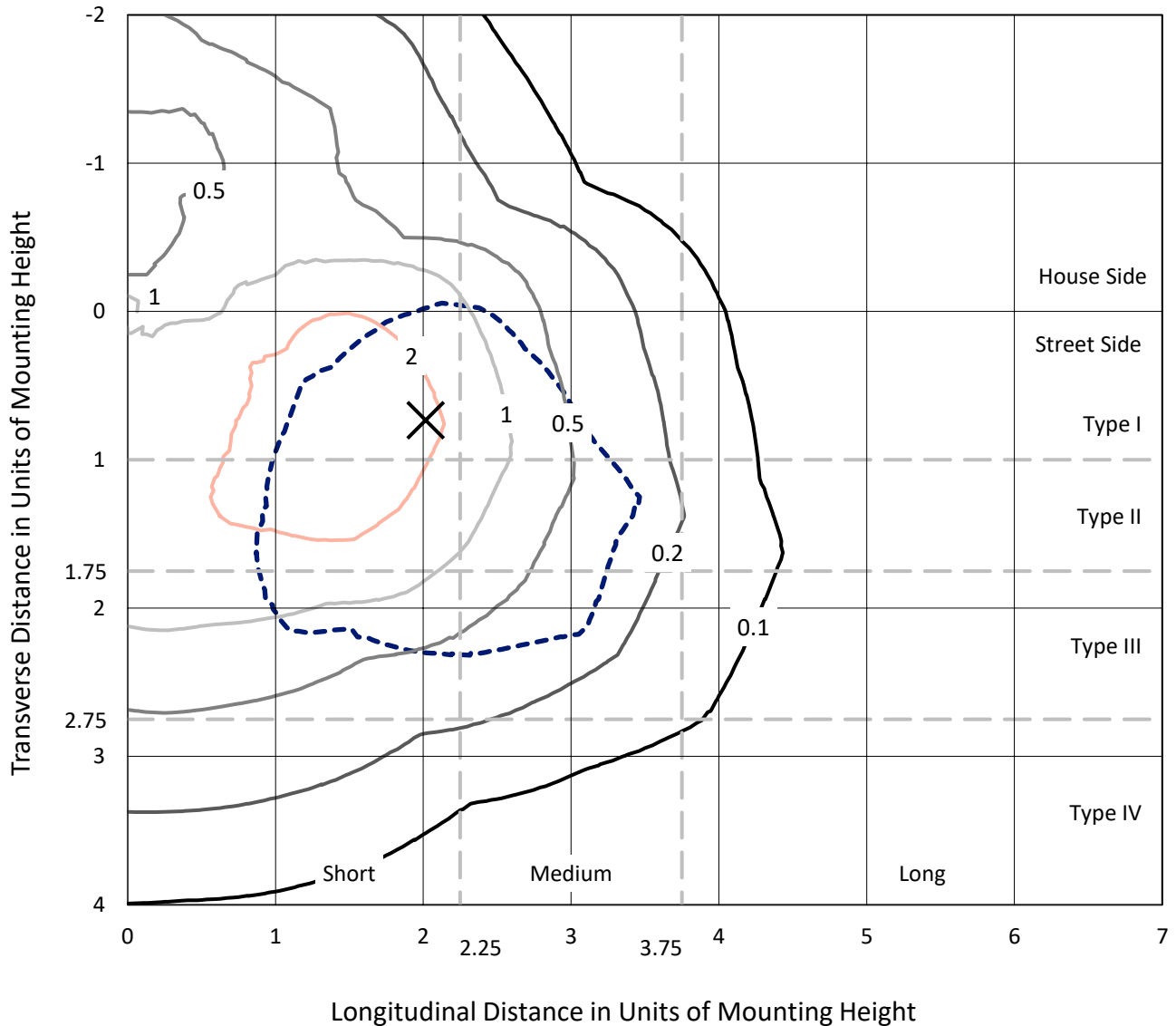
Lumens per Lamp: N/A
Luminaire Lumens: 9283.6 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U4 - G3

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

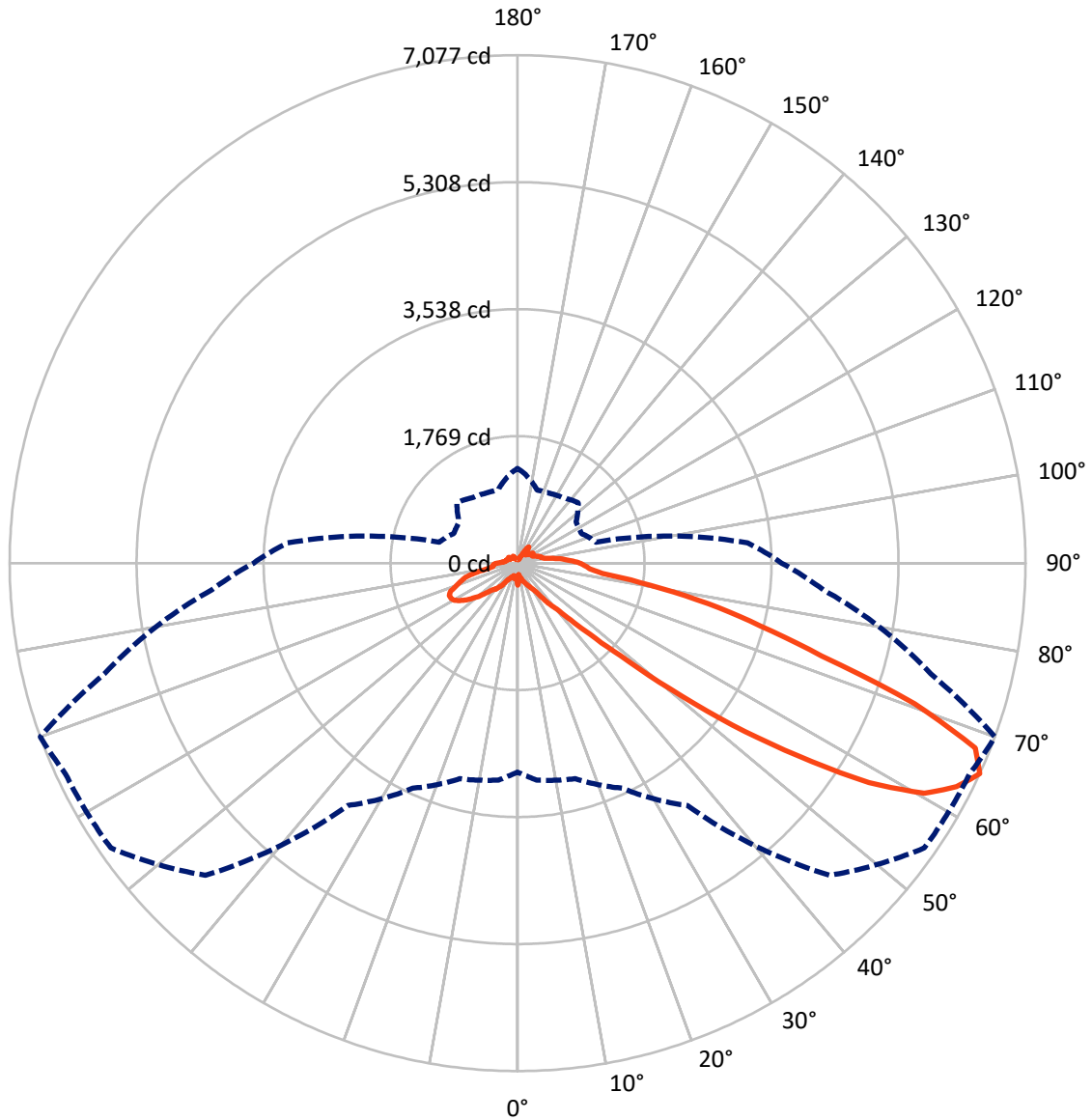
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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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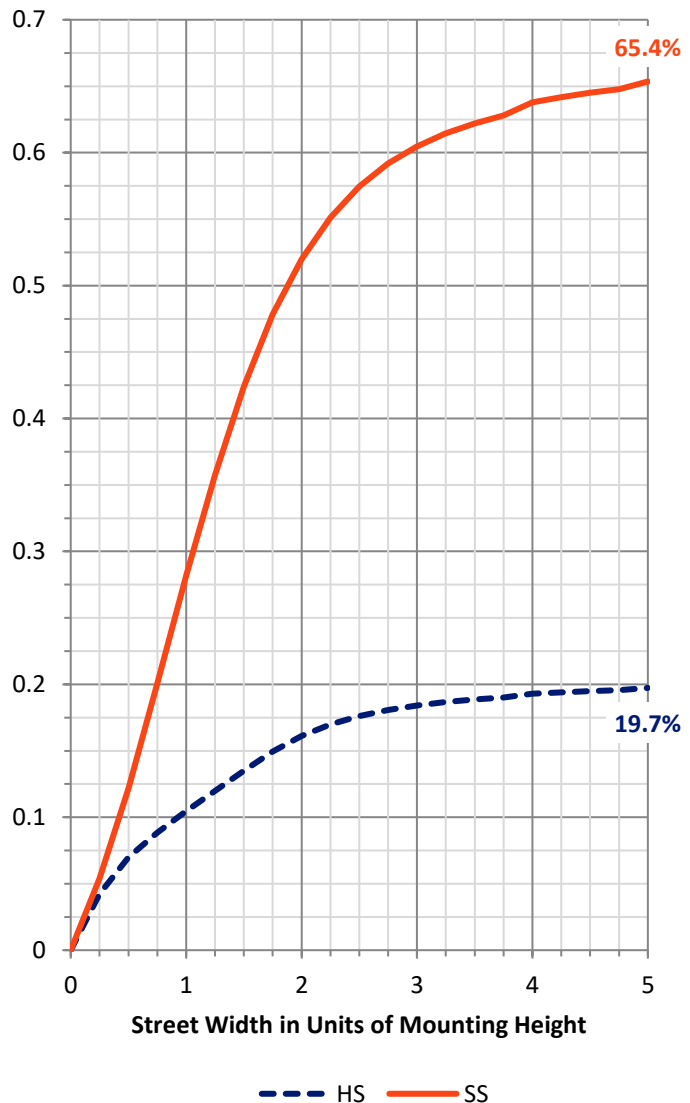
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1904.1	356.7	2260.8
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	6278.7	744.2	7022.8
	% Fixture	67.6	8.0	75.6
Total	Lumens	8182.7	1100.9	9283.6
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.2
10°-20°	62.1	0.7
20°-30°	125.3	1.3
30°-40°	265.1	2.9
40°-50°	618.2	6.7
50°-60°	1842.4	19.8
60°-70°	2952.3	31.8
70°-80°	1696.0	18.3
80°-90°	601.5	6.5
90°-100°	354.8	3.8
100°-110°	214.3	2.3
110°-120°	161.1	1.7
120°-130°	136.5	1.5
130°-140°	90.6	1.0
140°-150°	85.1	0.9
150°-160°	37.7	0.4
160°-170°	15.6	0.2
170°-180°	5.2	0.1
0°-90°	8182.7	88.1
0°-180°	9283.6	100.0



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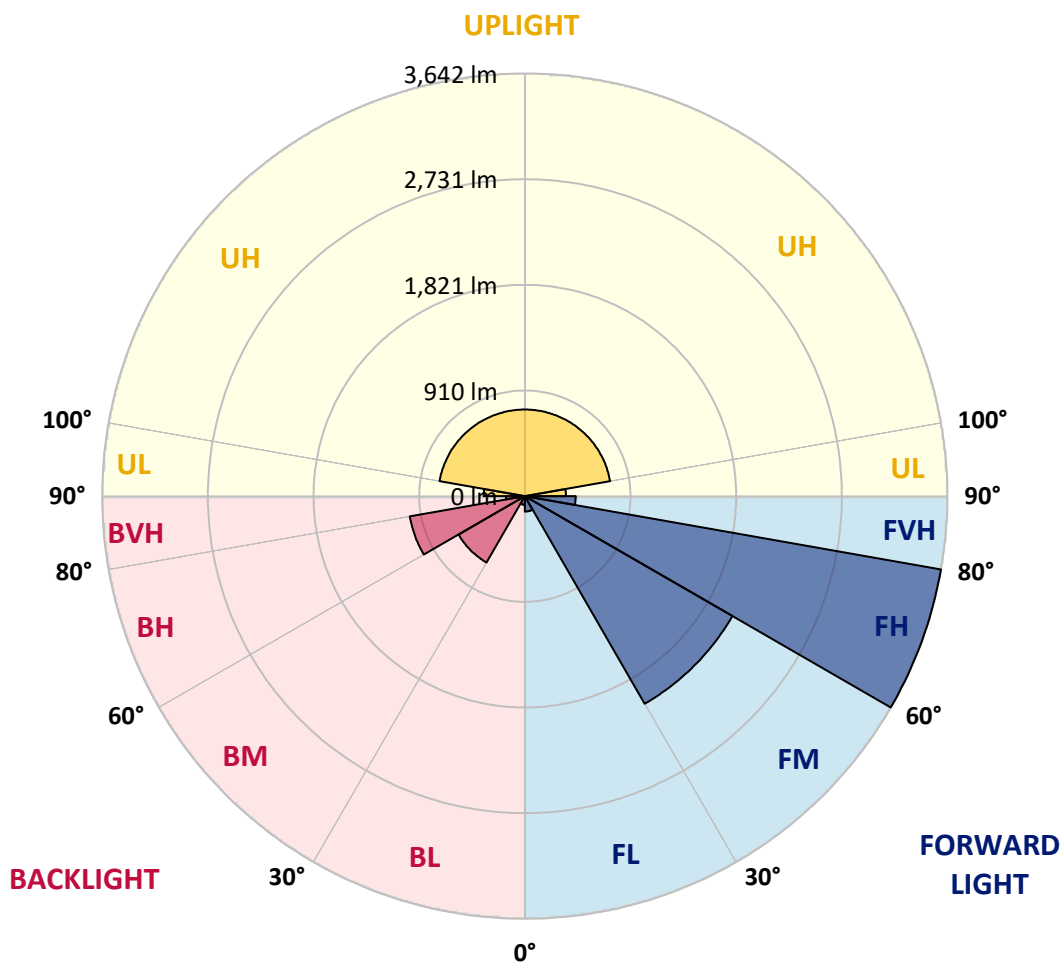
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.0	1.4			
FM (30°-60°)	2065.6	22.3			
FH (60°-80°)	3641.8	39.2			G2/5000
FVH (80°-90°)	438.2	4.7			G3/500
BL (0°-30°)	74.2	0.8	B0/110		
BM (30°-60°)	660.1	7.1	B1/1000		
BH (60°-80°)	1006.4	10.8	B3/2500		G3/2500
BVH (80°-90°)	163.3	1.8			G2/225
UL (90°-100°)	354.8	3.8		U3/500	
UH (100°-180°)	746.1	8.0		U4/1000	

BUG Rating: B3-U4-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9
2.5°	256.8	254.8	259.7	263.7	268.6	261.7	249.9	261.7	265.6	277.4	286.3
5°	218.4	219.4	224.3	235.1	245.0	243.0	212.5	173.2	161.4	156.4	157.4
7.5°	216.4	215.5	212.5	211.5	217.4	239.1	236.1	207.6	186.0	167.3	148.6
10°	228.3	231.2	234.2	234.2	230.2	216.4	215.5	213.5	205.6	196.8	185.0
12.5°	282.4	286.3	289.3	279.4	266.6	252.9	242.0	224.3	216.4	211.5	202.7
15°	341.4	345.3	340.4	321.7	299.1	273.5	263.7	264.7	253.8	241.0	222.4
17.5°	372.9	370.9	350.3	328.6	310.9	291.2	277.4	268.6	264.7	259.7	241.0
20°	353.2	348.3	335.5	326.6	324.7	313.9	305.0	297.1	292.2	281.4	258.8
22.5°	338.4	338.4	336.5	334.5	346.3	341.4	337.5	326.6	319.8	306.0	272.5
25°	357.1	357.1	358.1	355.2	370.9	370.9	370.9	359.1	350.3	330.6	290.2
27.5°	383.7	382.7	385.7	383.7	397.5	400.4	406.3	397.5	384.7	361.1	309.9
30°	412.2	412.2	415.2	417.2	430.9	437.8	444.7	440.8	425.0	396.5	343.4
32.5°	442.7	441.8	450.6	460.4	468.3	481.1	484.1	493.9	478.2	444.7	392.6
35°	487.0	490.0	513.6	534.2	556.9	564.7	578.5	616.9	601.1	555.9	495.9
37.5°	704.4	689.7	683.8	660.2	657.2	703.5	720.2	756.6	725.1	664.1	572.6
40°	746.8	729.0	721.2	698.5	706.4	801.8	785.1	916.0	839.2	741.8	682.8
42.5°	703.5	700.5	793.0	810.7	800.9	952.4	919.9	1161.9	1080.3	854.0	788.1
45°	849.1	841.2	880.6	912.0	936.6	1209.2	1189.5	1444.3	1408.9	1039.9	975.0
47.5°	958.3	950.4	995.7	1100.9	1244.6	1539.7	1654.9	2039.5	1919.5	1430.5	1283.0
50°	1284.9	1280.0	1402.0	1515.1	1752.3	2188.1	2503.9	2919.1	2743.0	1998.2	1726.7
52.5°	1593.9	1609.6	1752.3	1969.7	2220.6	3007.7	3458.3	3749.5	3747.5	2602.3	2216.6
55°	1815.2	1868.4	2036.6	2429.2	2777.4	3734.7	4342.8	4558.2	4739.3	3472.1	2699.7
57.5°	2245.2	2337.7	2499.0	2887.6	3337.3	4614.3	5482.1	5446.7	5772.3	4374.3	3225.1
60°	2686.9	2795.2	2849.3	3206.4	3796.7	5461.4	6265.2	6182.6	6510.2	5159.4	3778.0
62.5°	2824.7	2930.9	2984.1	3372.7	4128.3	5941.5	6626.3	6658.8	6862.4	5719.2	4105.7
65°	2911.3	3033.2	3110.0	3460.2	4121.4	6151.1	6918.5	6949.0	7076.9	5960.2	4274.9
67.5°	2895.5	3032.3	3130.7	3444.5	3893.1	5977.0	6845.7	6708.0	6879.2	5788.1	4096.8
70°	2582.6	2701.7	2800.1	3042.1	3249.7	5035.4	5922.9	5695.6	5872.7	4835.7	3382.5
72.5°	2110.4	2159.6	2245.2	2359.3	2462.6	3735.7	4517.9	4323.1	4425.4	3627.5	2534.4
75°	1733.6	1723.7	1800.5	1883.1	1850.6	2729.2	3574.4	3396.3	3491.7	2754.8	2021.8
77.5°	1284.9	1280.0	1391.2	1384.3	1335.1	1890.0	2833.5	2704.6	2717.4	2034.6	1514.2
80°	772.3	787.1	895.3	917.0	858.9	1185.6	2022.8	1961.8	1870.3	1390.2	1061.6
82.5°	542.1	564.7	621.8	645.4	616.9	865.8	1340.0	1297.7	1189.5	1008.5	747.7
85°	552.9	556.9	563.8	565.7	552.9	777.3	1039.9	1016.3	1009.4	845.1	616.9
87.5°	552.9	561.8	567.7	566.7	544.1	728.1	959.3	921.9	930.7	790.0	596.2
90°	495.9	511.6	510.6	513.6	494.9	658.2	869.7	839.2	851.0	712.3	542.1
92.5°	405.4	416.2	427.0	447.7	420.1	559.8	734.9	706.4	721.2	606.1	461.4
95°	376.8	386.7	393.5	404.4	376.8	497.8	650.3	615.9	621.8	514.6	390.6
97.5°	305.0	310.9	318.8	320.7	301.1	382.7	494.9	465.4	469.3	399.4	307.0
100°	255.8	260.7	267.6	267.6	254.8	316.8	391.6	375.8	373.9	326.6	259.7
102.5°	242.0	244.0	254.8	252.9	240.1	292.2	354.2	344.4	345.3	303.0	244.0
105°	238.1	238.1	248.9	244.0	233.2	278.4	331.6	328.6	327.6	288.3	234.2
107.5°	234.2	234.2	245.0	240.1	231.2	262.7	311.9	302.0	301.1	274.5	221.4
110°	218.4	221.4	233.2	227.3	220.4	247.9	286.3	279.4	279.4	258.8	211.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	193.8	195.8	206.6	201.7	196.8	220.4	253.8	245.0	246.0	232.2	197.8
115°	181.0	184.0	194.8	187.9	184.0	205.6	235.1	229.2	231.2	218.4	186.9
117.5°	182.0	183.0	190.9	191.9	184.0	201.7	217.4	219.4	222.4	214.5	189.9
120°	221.4	216.4	220.4	215.5	211.5	232.2	250.9	252.9	251.9	237.1	188.9
122.5°	223.3	213.5	224.3	217.4	213.5	236.1	256.8	261.7	256.8	244.0	192.8
125°	178.1	181.0	182.0	184.0	187.9	212.5	223.3	224.3	225.3	221.4	186.9
127.5°	156.4	155.5	150.5	151.5	160.4	182.0	189.9	195.8	191.9	189.9	168.2
130°	149.5	151.5	150.5	150.5	155.5	172.2	178.1	186.9	184.0	180.0	153.5
132.5°	137.7	139.7	148.6	159.4	157.4	163.3	165.3	174.1	175.1	175.1	154.5
135°	130.9	132.8	139.7	153.5	149.5	152.5	151.5	159.4	160.4	161.4	145.6
137.5°	133.8	134.8	130.9	132.8	135.8	148.6	152.5	160.4	160.4	156.4	135.8
140°	140.7	140.7	131.8	128.9	134.8	154.5	162.3	175.1	173.2	166.3	140.7
142.5°	129.9	131.8	136.8	142.7	155.5	209.6	209.6	234.2	242.0	244.0	170.2
145°	169.2	170.2	172.2	175.1	199.7	274.5	249.9	267.6	274.5	281.4	204.6
147.5°	194.8	196.8	194.8	186.9	209.6	235.1	223.3	231.2	239.1	241.0	205.6
150°	152.5	150.5	149.5	148.6	173.2	181.0	171.2	170.2	176.1	181.0	159.4
152.5°	111.2	110.2	109.2	108.2	129.9	125.0	118.1	118.1	120.0	121.0	112.2
155°	98.4	97.4	95.4	96.4	110.2	105.3	99.4	97.4	99.4	98.4	93.5
157.5°	80.7	78.7	78.7	82.6	89.5	83.6	79.7	76.7	77.7	76.7	77.7
160°	66.9	65.9	66.9	71.8	75.8	70.8	66.9	64.9	64.9	66.9	70.8
162.5°	60.0	59.0	60.0	62.0	64.0	59.0	56.1	56.1	57.1	61.0	68.9
165°	52.1	52.1	53.1	54.1	55.1	52.1	51.2	51.2	53.1	59.0	67.9
167.5°	50.2	50.2	50.2	50.2	50.2	49.2	48.2	51.2	53.1	56.1	62.0
170°	49.2	48.2	49.2	49.2	49.2	49.2	49.2	52.1	52.1	53.1	56.1
172.5°	50.2	50.2	50.2	51.2	53.1	54.1	53.1	55.1	54.1	54.1	54.1
175°	51.2	51.2	52.1	53.1	54.1	55.1	56.1	56.1	56.1	57.1	57.1
177.5°	51.2	51.2	52.1	53.1	54.1	52.1	50.2	49.2	48.2	48.2	48.2
180°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9	307.9
2.5°	278.4	253.8	219.4	234.2	279.4	270.6	225.3	197.8	199.7	219.4	221.4
5°	162.3	167.3	189.9	237.1	246.0	203.7	164.3	158.4	190.9	236.1	245.0
7.5°	146.6	146.6	165.3	230.2	258.8	212.5	160.4	144.6	169.2	206.6	212.5
10°	177.1	171.2	173.2	196.8	207.6	170.2	143.6	136.8	150.5	155.5	153.5
12.5°	199.7	203.7	222.4	217.4	170.2	138.7	129.9	128.9	136.8	141.7	140.7
15°	214.5	207.6	193.8	178.1	162.3	144.6	131.8	124.0	115.1	111.2	111.2
17.5°	228.3	214.5	189.9	175.1	159.4	146.6	134.8	123.0	119.0	120.0	120.0
20°	245.0	228.3	205.6	188.9	170.2	152.5	137.7	125.0	122.0	123.0	122.0
22.5°	257.8	243.0	219.4	197.8	178.1	158.4	143.6	130.9	126.9	125.9	125.9
25°	273.5	260.7	236.1	209.6	186.0	167.3	154.5	139.7	132.8	130.9	130.9
27.5°	294.2	283.4	255.8	227.3	199.7	178.1	164.3	148.6	138.7	134.8	133.8
30°	325.7	310.9	280.4	245.0	216.4	193.8	177.1	157.4	145.6	138.7	137.7
32.5°	372.9	354.2	313.9	269.6	235.1	211.5	190.9	166.3	151.5	143.6	142.7
35°	473.2	452.6	401.4	339.4	289.3	241.0	208.6	176.1	157.4	147.6	146.6
37.5°	536.2	498.8	436.8	380.8	319.8	291.2	249.9	206.6	165.3	152.5	150.5
40°	627.7	579.5	501.8	426.0	318.8	317.8	290.2	251.9	194.8	161.4	158.4
42.5°	695.6	633.6	536.2	451.6	321.7	330.6	307.0	273.5	231.2	187.9	183.0
45°	834.3	755.6	601.1	474.2	325.7	345.3	321.7	286.3	248.9	218.4	215.5
47.5°	1094.1	984.8	727.1	517.5	369.9	394.5	352.2	310.9	274.5	244.0	237.1
50°	1457.1	1326.2	879.6	555.9	445.7	501.8	432.9	369.9	326.6	303.0	296.1
52.5°	1883.1	1736.5	975.0	615.9	537.2	633.6	557.9	484.1	427.0	430.9	427.0
55°	2358.3	2185.2	1058.6	706.4	654.3	780.2	697.6	633.6	603.1	688.7	693.6
57.5°	2816.8	2631.8	1110.8	801.8	785.1	949.4	853.0	807.8	819.6	1070.4	1129.5
60°	3254.6	2962.4	1151.1	891.4	895.3	1082.2	1008.5	999.6	1036.0	1357.7	1447.3
62.5°	3507.5	3131.6	1149.2	949.4	964.2	1163.9	1099.0	1103.9	1131.4	1405.0	1479.7
65°	3679.6	3217.2	1129.5	978.9	993.7	1193.4	1109.8	1071.4	1053.7	1240.7	1320.3
67.5°	3576.3	3051.9	1082.2	953.4	973.0	1146.2	1041.9	945.5	915.0	1016.3	1063.6
70°	3023.4	2550.2	964.2	866.8	879.6	967.1	878.6	773.3	742.8	795.9	817.6
72.5°	2284.5	1957.9	864.8	800.9	770.4	799.9	713.3	603.1	596.2	624.8	628.7
75°	1825.1	1536.8	788.1	722.2	640.5	671.0	566.7	448.6	439.8	441.8	431.9
77.5°	1375.4	1143.2	663.1	568.7	485.0	535.2	421.1	309.9	295.2	289.3	278.4
80°	941.6	794.0	450.6	380.8	344.4	392.6	300.1	227.3	226.3	224.3	212.5
82.5°	668.0	612.9	368.0	323.7	292.2	308.9	260.7	212.5	207.6	208.6	195.8
85°	584.4	554.9	355.2	327.6	297.1	296.1	248.9	198.7	196.8	197.8	186.0
87.5°	558.8	526.4	347.3	312.9	283.4	268.6	219.4	175.1	180.0	183.0	172.2
90°	500.8	467.3	314.8	279.4	250.9	225.3	186.0	158.4	166.3	168.2	158.4
92.5°	422.1	387.6	245.0	224.3	210.5	206.6	174.1	150.5	156.4	157.4	149.5
95°	357.1	325.7	213.5	197.8	187.9	186.9	157.4	136.8	139.7	138.7	131.8
97.5°	287.3	264.7	186.9	172.2	161.4	155.5	134.8	119.0	123.0	125.0	120.0
100°	245.0	232.2	174.1	161.4	148.6	140.7	123.0	110.2	114.1	118.1	114.1
102.5°	230.2	220.4	171.2	157.4	143.6	133.8	117.1	103.3	105.3	110.2	107.2
105°	218.4	209.6	166.3	151.5	138.7	127.9	114.1	97.4	96.4	101.3	100.4
107.5°	205.6	197.8	163.3	145.6	131.8	122.0	109.2	93.5	89.5	92.5	91.5
110°	198.7	190.9	157.4	138.7	124.0	115.1	103.3	90.5	85.6	86.6	86.6



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	185.0	176.1	144.6	126.9	115.1	107.2	95.4	86.6	80.7	82.6	83.6
115°	176.1	164.3	132.8	120.0	107.2	100.4	93.5	85.6	78.7	78.7	79.7
117.5°	182.0	159.4	124.0	114.1	107.2	105.3	103.3	91.5	77.7	76.7	76.7
120°	174.1	160.4	134.8	131.8	125.0	119.0	106.3	90.5	75.8	73.8	73.8
122.5°	170.2	167.3	152.5	142.7	129.9	118.1	99.4	82.6	72.8	70.8	70.8
125°	168.2	165.3	147.6	128.9	112.2	100.4	88.5	77.7	71.8	68.9	68.9
127.5°	154.5	140.7	119.0	108.2	97.4	92.5	82.6	75.8	68.9	64.9	64.9
130°	142.7	129.9	111.2	99.4	90.5	86.6	79.7	72.8	65.9	62.0	61.0
132.5°	140.7	127.9	108.2	93.5	85.6	81.7	77.7	69.9	62.0	58.0	57.1
135°	130.9	116.1	96.4	88.5	83.6	80.7	77.7	67.9	60.0	56.1	56.1
137.5°	121.0	106.3	91.5	87.6	83.6	80.7	71.8	62.0	56.1	53.1	53.1
140°	122.0	105.3	93.5	90.5	84.6	75.8	67.9	61.0	56.1	52.1	51.2
142.5°	129.9	109.2	94.5	85.6	81.7	76.7	73.8	65.9	56.1	49.2	47.2
145°	142.7	118.1	106.3	102.3	95.4	86.6	75.8	61.0	51.2	45.3	44.3
147.5°	157.4	132.8	119.0	108.2	94.5	79.7	64.9	53.1	45.3	43.3	42.3
150°	136.8	113.1	102.3	87.6	75.8	64.0	53.1	47.2	43.3	42.3	42.3
152.5°	103.3	84.6	75.8	68.9	62.0	56.1	50.2	46.2	43.3	41.3	41.3
155°	89.5	79.7	70.8	64.0	57.1	51.2	46.2	44.3	41.3	41.3	40.3
157.5°	78.7	73.8	62.0	56.1	51.2	48.2	46.2	43.3	42.3	41.3	41.3
160°	71.8	68.9	57.1	52.1	49.2	47.2	47.2	45.3	42.3	41.3	41.3
162.5°	69.9	66.9	55.1	50.2	47.2	48.2	50.2	49.2	45.3	43.3	43.3
165°	68.9	66.9	56.1	49.2	47.2	48.2	53.1	54.1	49.2	46.2	45.3
167.5°	63.0	62.0	59.0	54.1	51.2	51.2	54.1	55.1	53.1	53.1	52.1
170°	57.1	57.1	58.0	59.0	57.1	54.1	52.1	52.1	55.1	58.0	59.0
172.5°	55.1	56.1	58.0	61.0	61.0	57.1	54.1	53.1	56.1	60.0	61.0
175°	58.0	59.0	60.0	60.0	58.0	57.1	56.1	55.1	57.1	61.0	62.0
177.5°	48.2	48.2	49.2	49.2	48.2	49.2	48.2	46.2	46.2	46.2	46.2
180°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

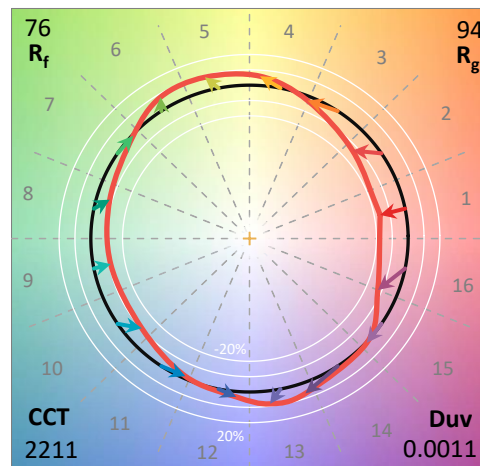
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

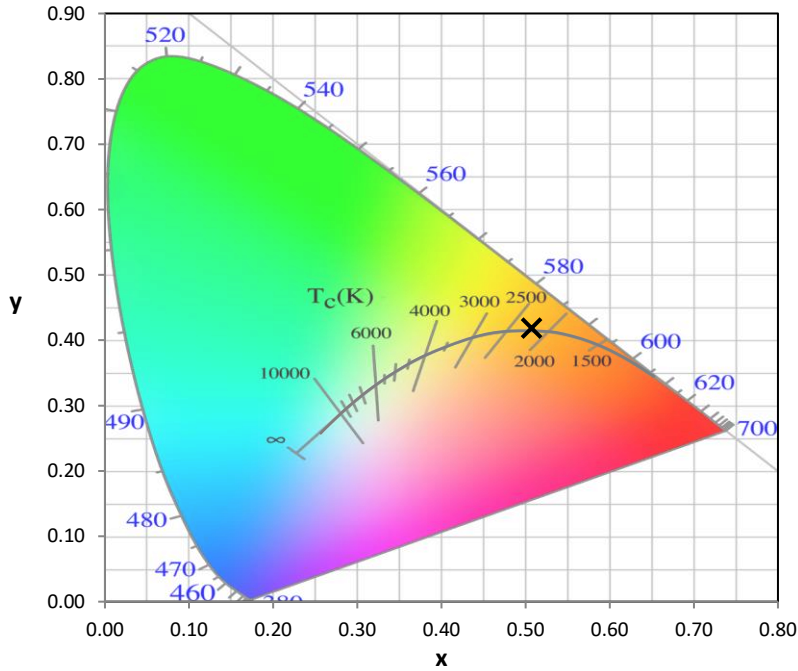
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

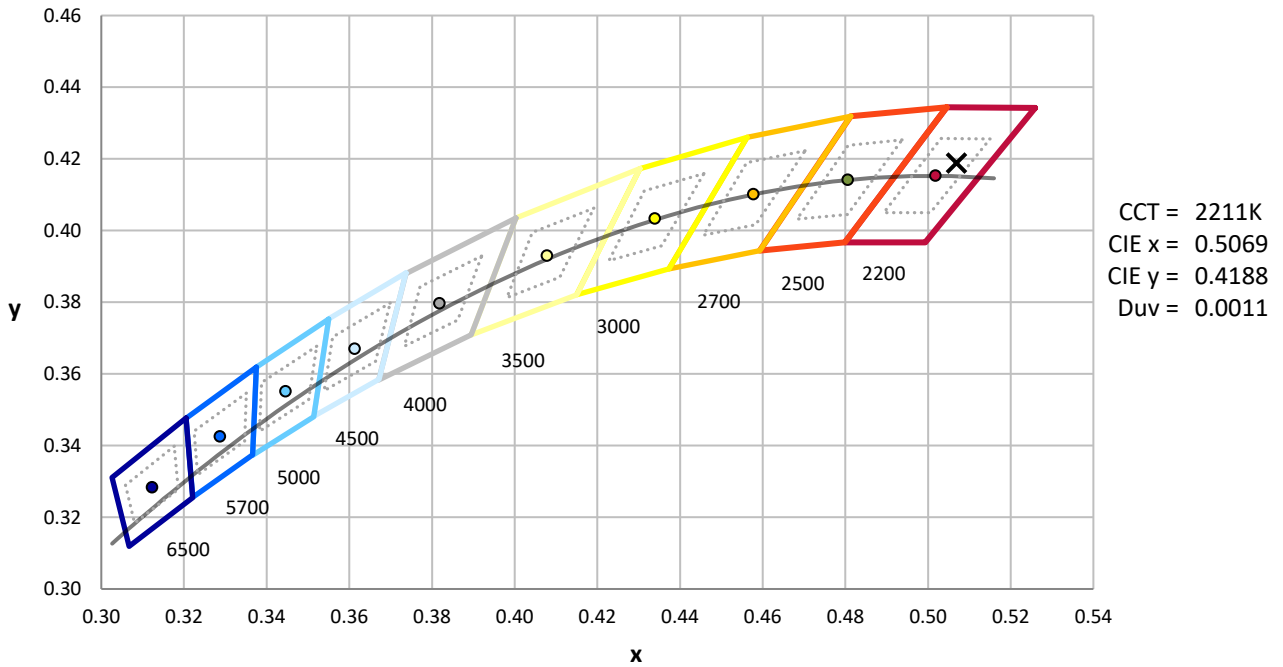
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-2

CIE 1931 Chromaticity Diagram



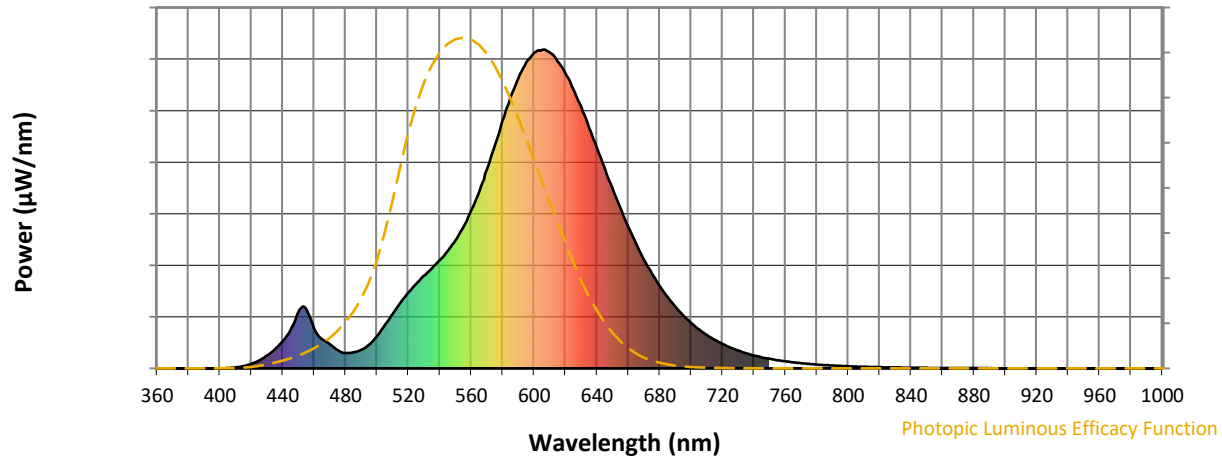
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

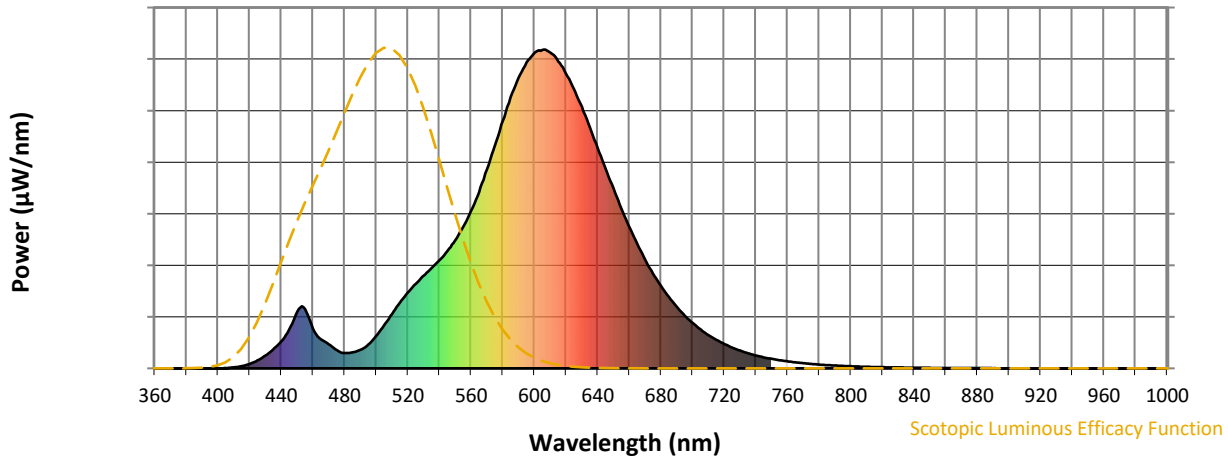


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



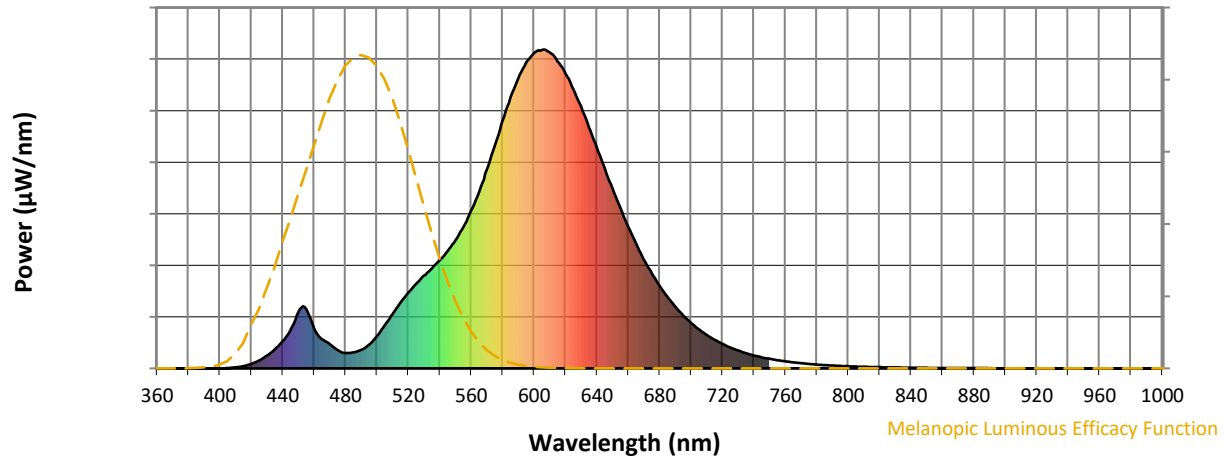
Scotopic Lumens: NR

S/P: 0.87

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

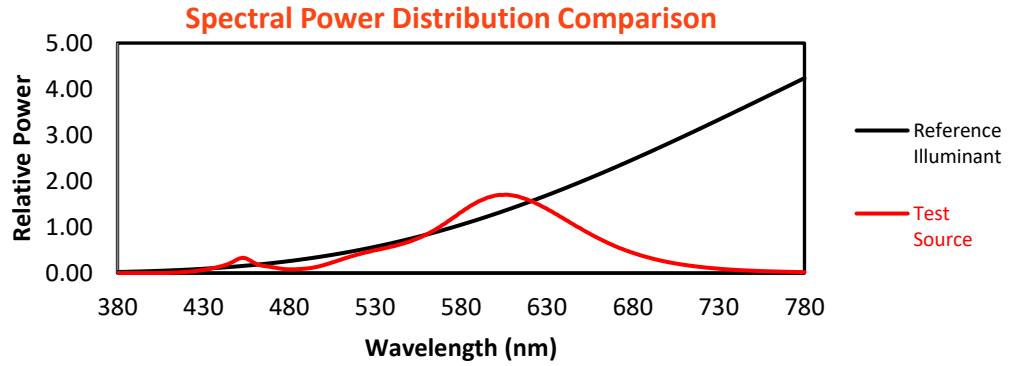
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

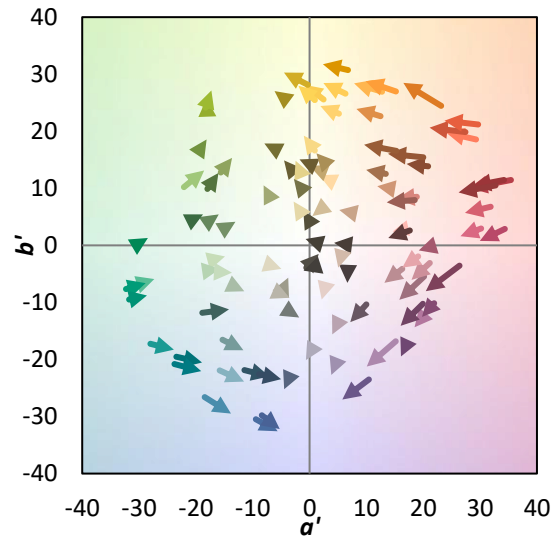
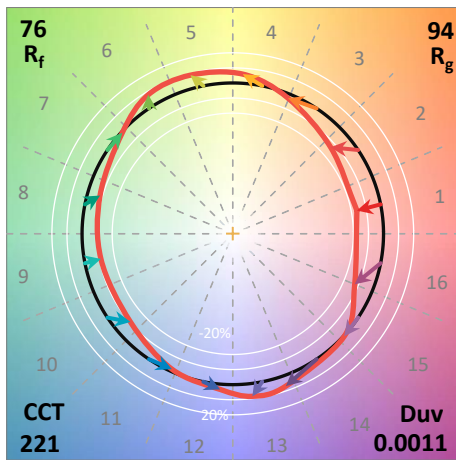
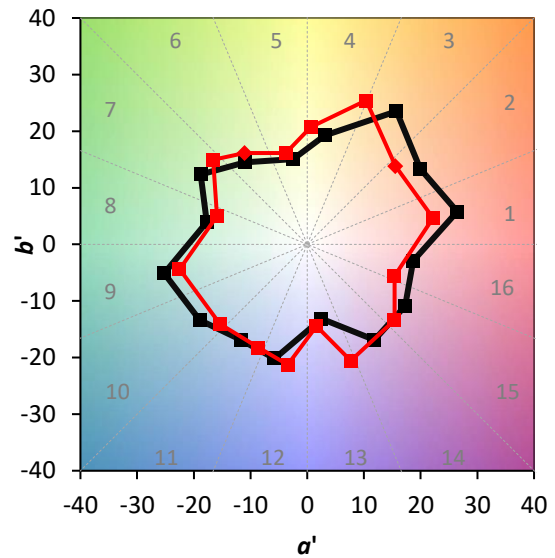
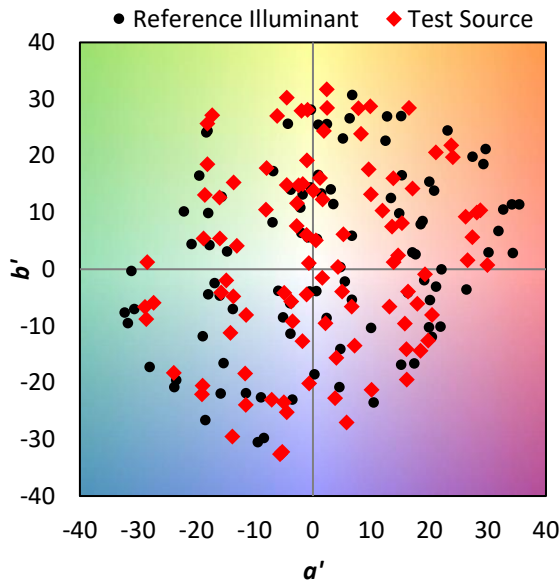
TM-30-18

Summary

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



Color Vector Graphics

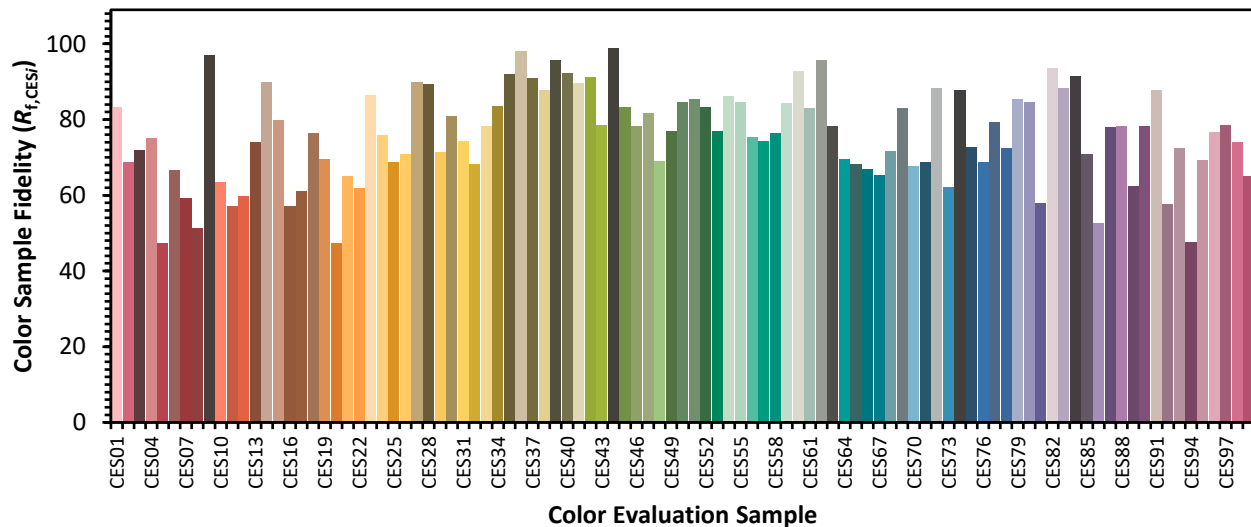


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TM-30-18

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

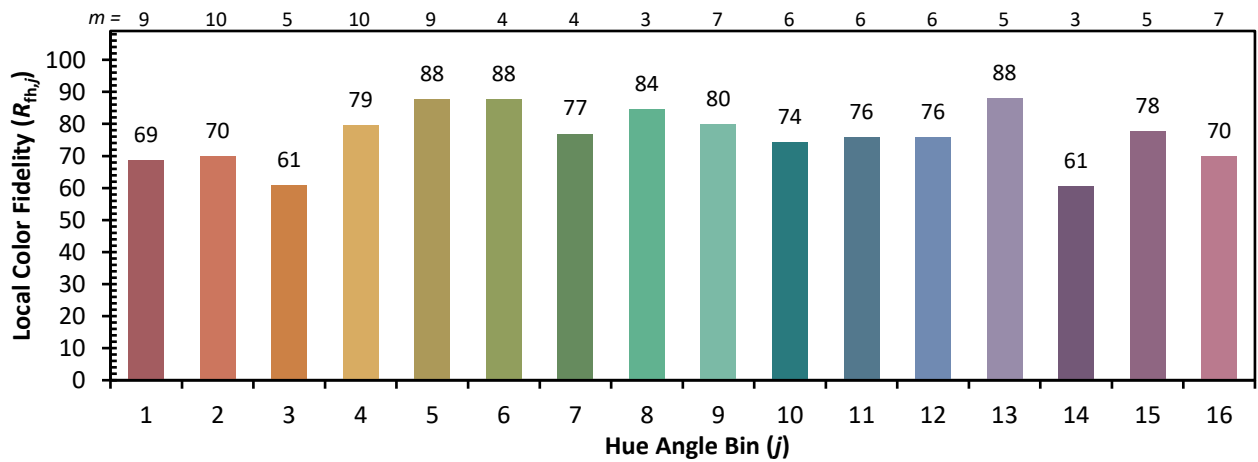
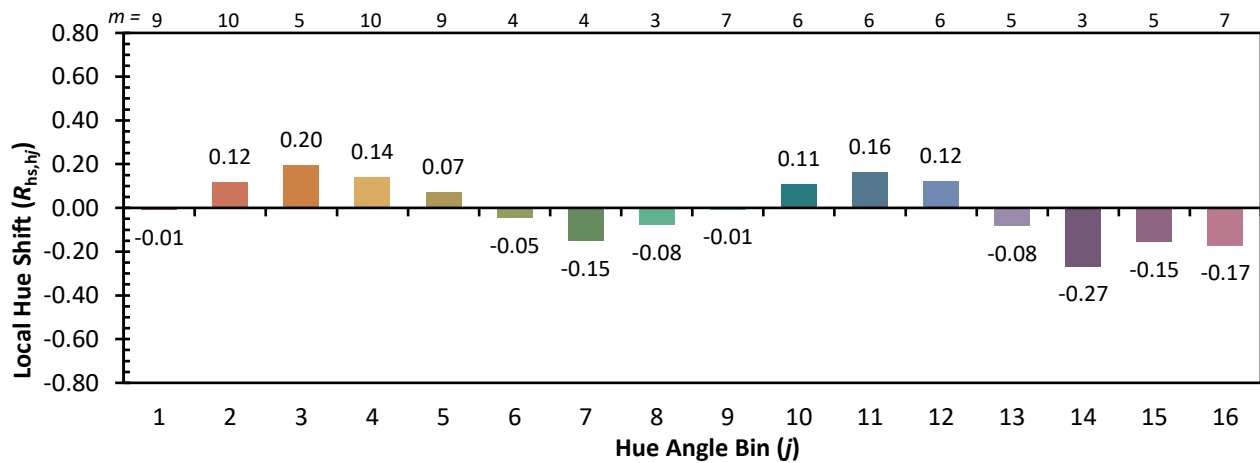
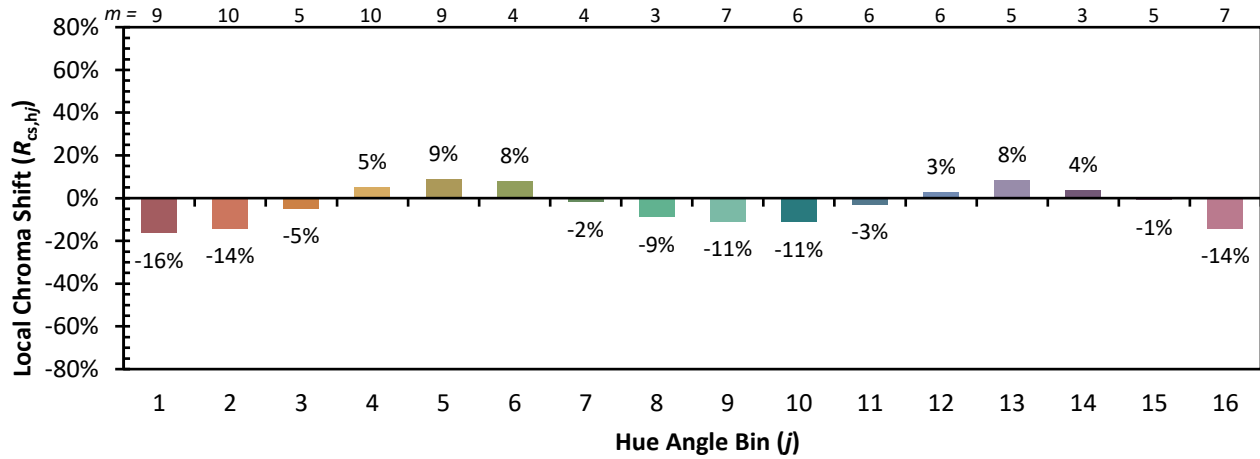
CES01 = 87	CES26 = 71	CES51 = 85	CES76 = 69
CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



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TM-30-18

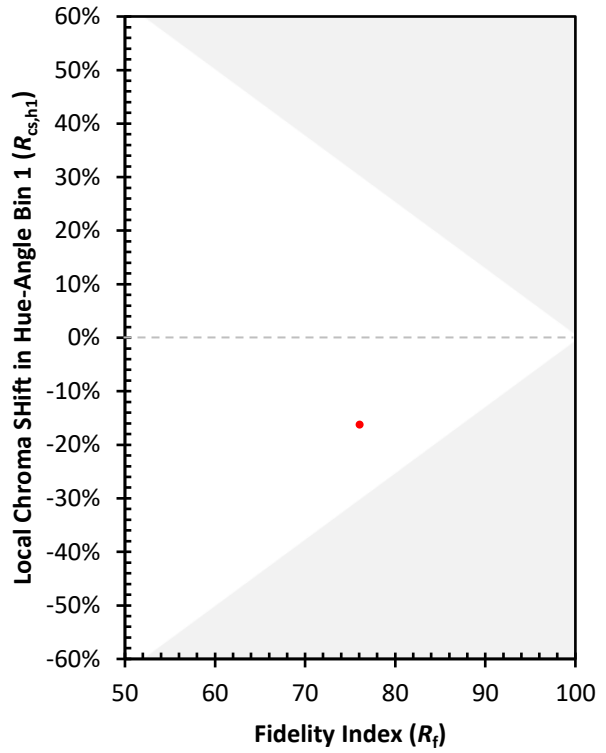
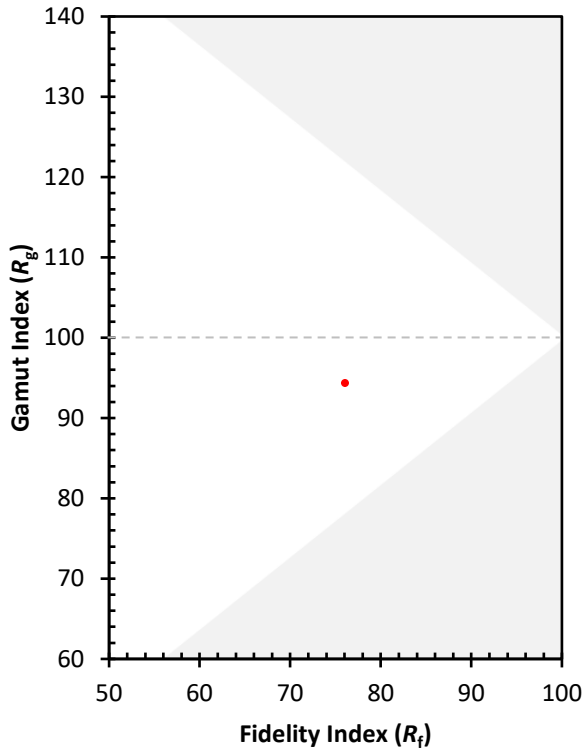
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)