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: P1046368

Luminaire Tested: **FFX-CLB-40-722-U-FR-T4**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046368
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-722-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5267.2 lumens
Efficiency:	N/A
Efficacy:	133.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G2

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

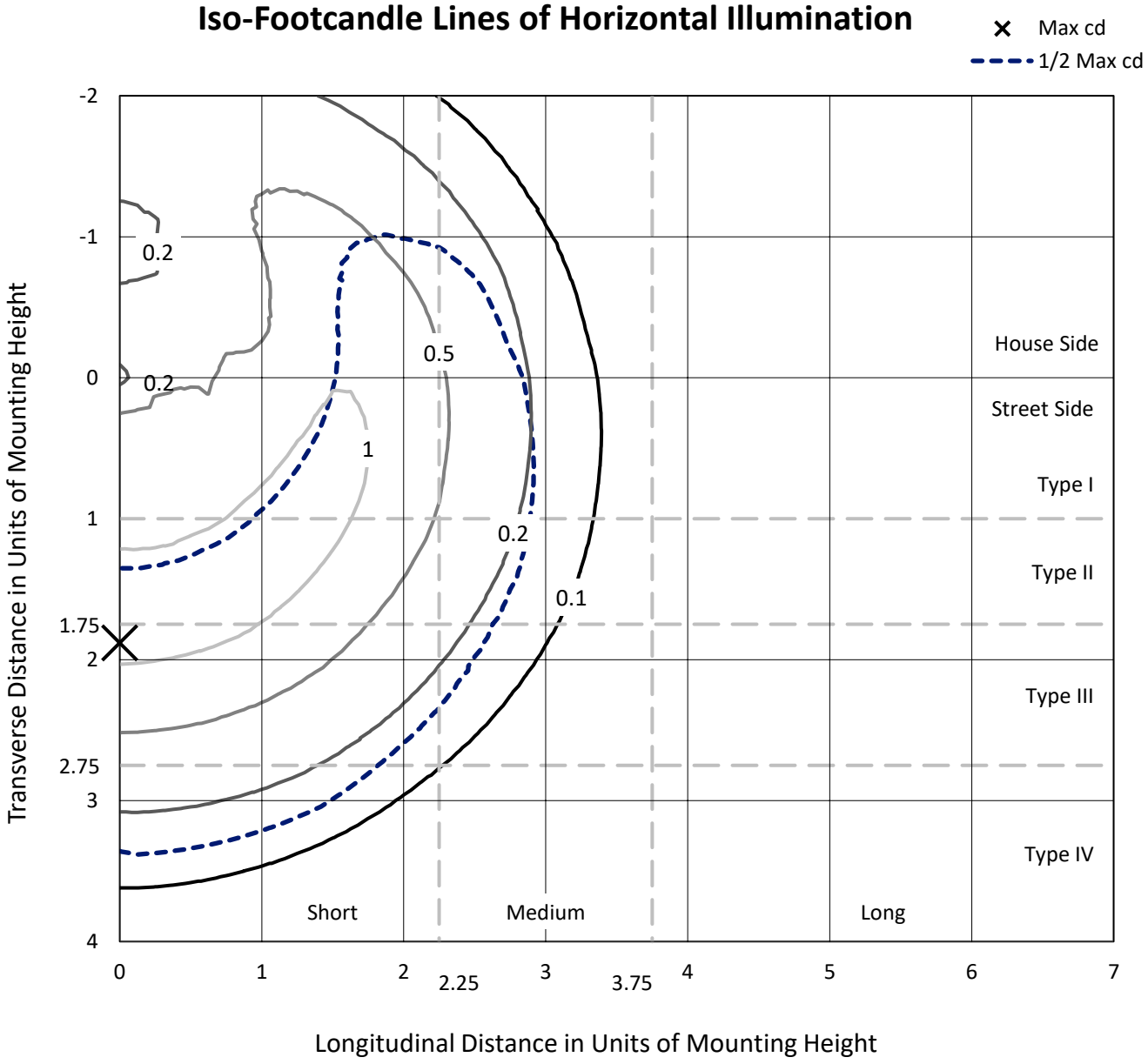


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Iso-Footcandle Lines of Horizontal Illumination



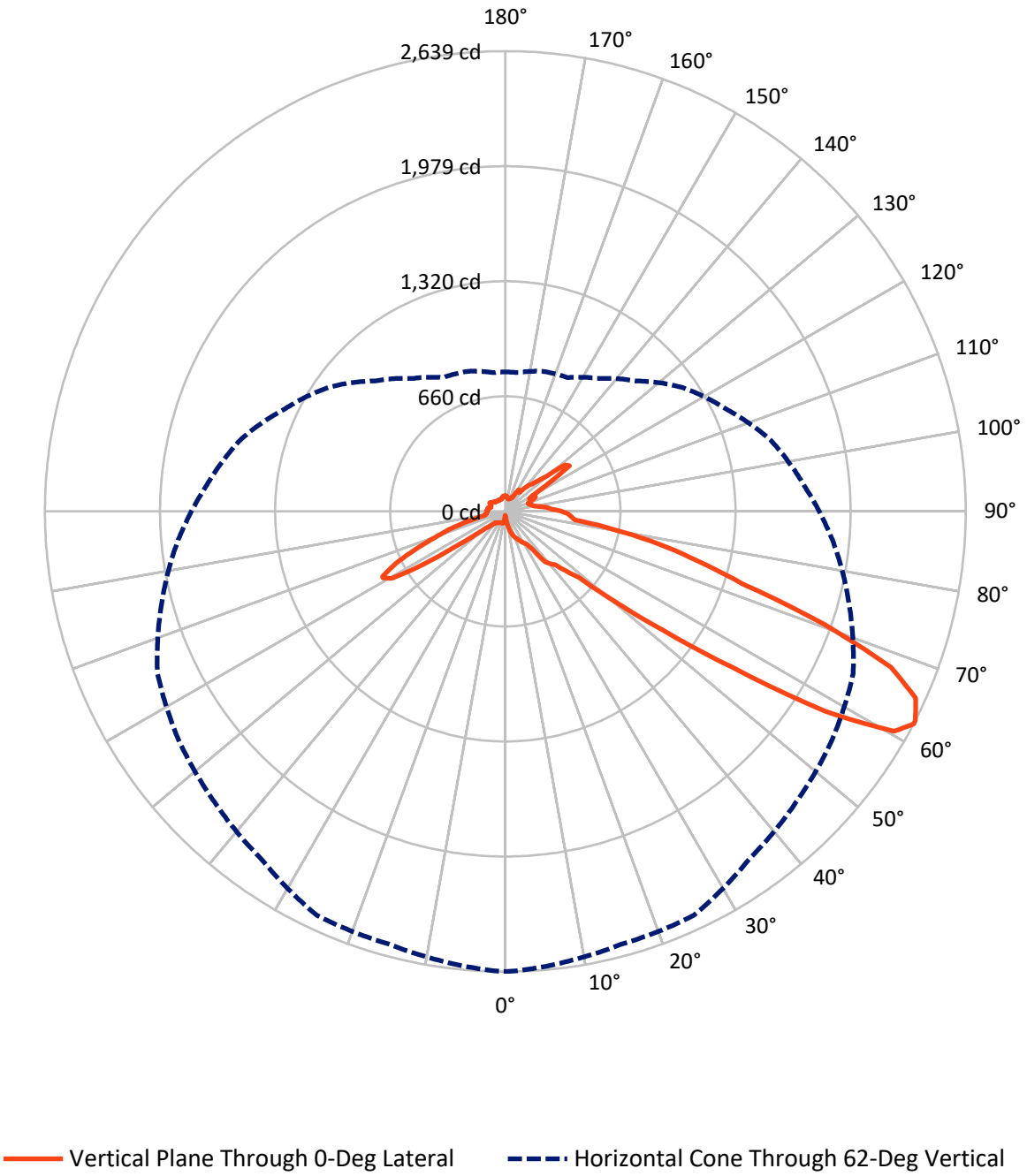
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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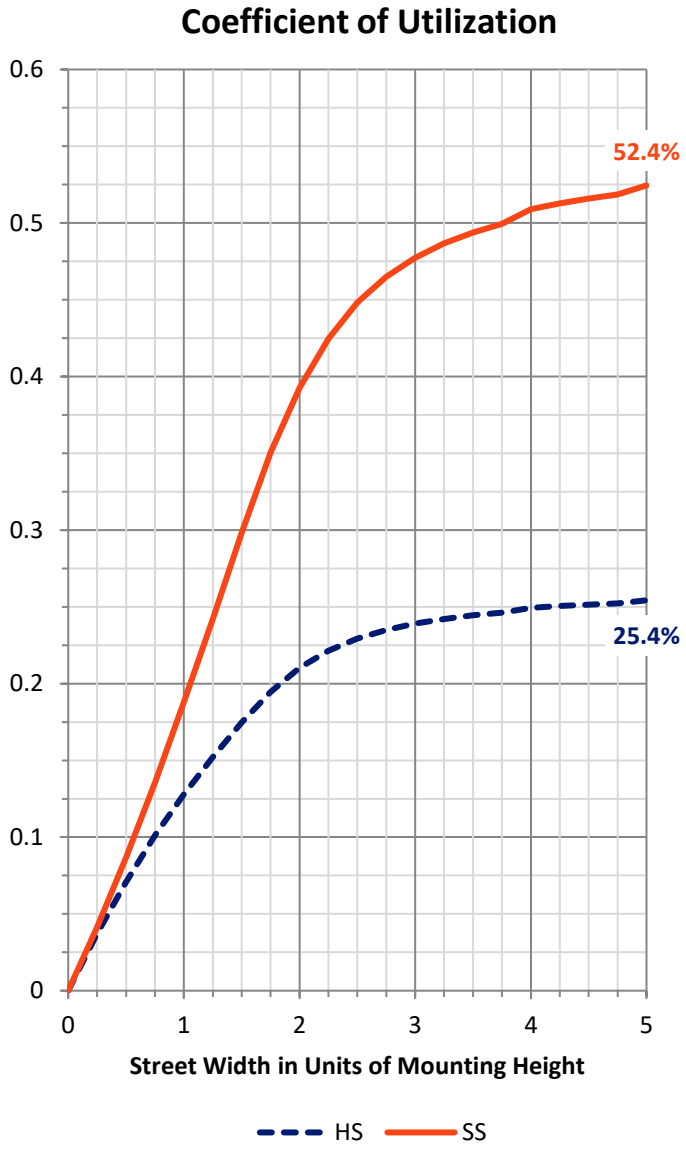
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1385.9	396.0	1781.8
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	2877.1	608.2	3485.3
	% Fixture	54.6	11.5	66.2
Total	Lumens	4263.0	1004.2	5267.2
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	29.2	0.6
20°-30°	63.3	1.2
30°-40°	126.7	2.4
40°-50°	277.4	5.3
50°-60°	971.3	18.4
60°-70°	1625.6	30.9
70°-80°	843.8	16.0
80°-90°	320.4	6.1
90°-100°	204.3	3.9
100°-110°	135.4	2.6
110°-120°	141.5	2.7
120°-130°	236.4	4.5
130°-140°	142.3	2.7
140°-150°	75.2	1.4
150°-160°	39.6	0.8
160°-170°	21.5	0.4
170°-180°	8.0	0.2
0°-90°	4263.0	80.9
0°-180°	5267.2	100.0



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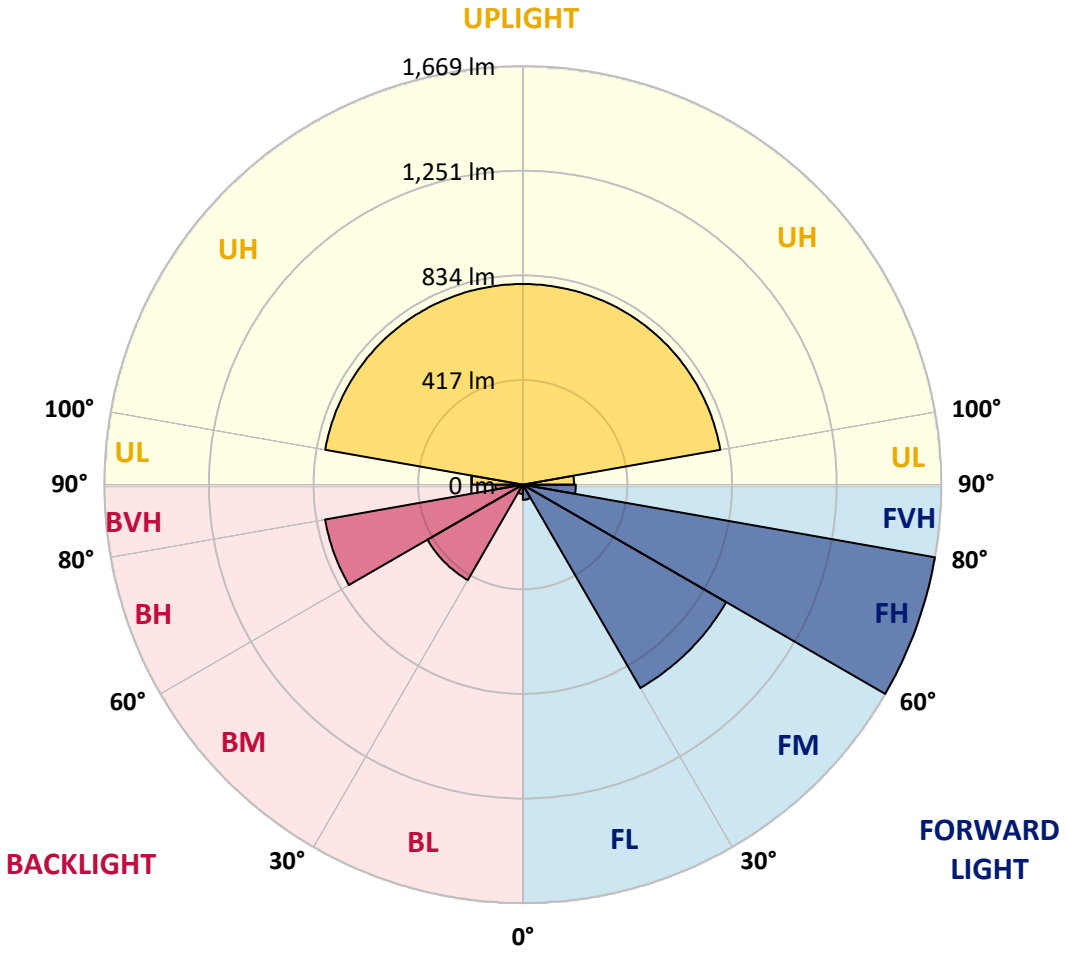
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	60.7	1.2			
FM	(30°-60°)	936.4	17.8			
FH	(60°-80°)	1668.7	31.7			G1/1800
FVH	(80°-90°)	211.4	4.0			G2/225
BL	(0°-30°)	37.1	0.7	B0/110		
BM	(30°-60°)	439.0	8.3	B1/1000		
BH	(60°-80°)	800.7	15.2	B2/1000		G2/1000
BVH	(80°-90°)	109.1	2.1			G2/225
UL	(90°-100°)	204.3	3.9		U3/500	
UH	(100°-180°)	799.8	15.2		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*32.8*	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
2.5°	*33.2*	32.5	32.5	33.8	35.5	35.5	35.9	34.8	34.8	34.5	34.8
5°	*48.2*	46.9	47.6	47.9	48.6	49.3	49.9	49.9	48.6	47.6	44.9
7.5°	*67.3*	67.0	67.7	67.3	66.7	68.4	69.4	71.7	72.4	68.0	62.7
10°	*86.8*	85.8	85.4	85.8	86.1	85.1	87.1	88.8	86.4	81.4	76.7
12.5°	*107.9*	107.9	107.9	107.6	107.6	107.2	106.6	106.2	103.9	98.2	90.8
15°	*131.3*	131.7	132.4	132.0	130.3	127.7	125.7	124.0	122.6	118.6	109.2
17.5°	*145.8*	145.1	145.8	145.4	144.7	143.1	139.4	136.0	131.7	126.0	118.9
20°	*159.2*	158.8	158.5	158.5	157.8	155.8	153.5	148.1	142.4	136.4	128.3
22.5°	*169.5*	168.9	169.5	169.2	168.9	168.2	164.2	159.5	153.1	146.4	138.0
25°	*182.9*	182.6	182.9	181.9	181.9	180.9	178.6	172.6	165.5	158.2	147.8
27.5°	*197.7*	196.7	197.7	197.4	196.0	193.3	191.3	184.6	175.9	168.9	159.5
30°	*210.1*	210.1	210.8	208.7	210.1	207.7	203.1	195.7	188.3	179.3	169.5
32.5°	*223.2*	223.2	222.5	222.1	223.8	220.8	215.4	206.7	200.7	191.3	182.9
35°	*259.7*	257.0	261.4	261.0	269.4	263.4	253.3	241.6	232.2	220.1	209.1
37.5°	*364.6*	363.2	361.2	348.5	333.7	336.1	337.7	324.7	313.0	291.2	265.4
40°	*394.4*	394.0	393.7	386.3	390.4	379.6	374.3	367.6	365.6	337.1	302.6
42.5°	*418.8*	414.8	418.8	432.2	453.3	446.0	418.8	384.0	377.6	350.5	336.4
45°	*485.2*	482.5	489.2	493.2	486.5	474.5	482.2	456.7	439.3	400.7	374.9
47.5°	*564.6*	561.9	568.3	571.6	585.4	572.6	566.6	544.8	515.7	479.1	445.6
50°	*801.5*	771.3	795.8	787.4	790.8	762.3	773.7	742.5	716.4	656.4	595.7
52.5°	*1131.5*	1121.5	1104.7	1086.0	1100.4	1069.9	1079.3	1045.4	998.2	928.5	839.0
55°	*1578.2*	1544.3	1555.0	1593.6	1585.5	1530.9	1521.5	1439.1	1354.3	1250.1	1156.0
57.5°	*2162.5*	2145.8	2126.3	2100.5	2075.4	2018.8	1991.0	1898.8	1767.1	1621.7	1490.7
60°	*2560.2*	2546.8	2538.1	2459.4	2413.2	2299.2	2273.4	2209.4	2092.2	1934.0	1753.4
62°	*2639.3*	*2637.3*	*2619.6*	*2570.6*	*2556.9*	*2436.3*	*2357.9*	*2286.5*	*2200.4*	*2039.9*	*1882.7*
62.5°	*2638.7*	2634.6	2624.2	2583.4	2569.3	2456.4	2371.3	2295.5	2209.8	2052.3	1897.8
65°	*2585.0*	2576.0	2571.3	2546.8	2540.5	2474.1	2361.2	2283.1	2211.1	2037.5	1908.9
67.5°	*2383.3*	2394.1	2394.7	2370.3	2349.2	2309.6	2201.7	2134.0	2084.5	1903.5	1782.2
70°	*1934.7*	1920.3	1905.5	1916.9	1907.5	1886.1	1800.3	1715.2	1653.2	1558.4	1443.5
72.5°	*1422.0*	1444.8	1444.5	1447.8	1449.5	1395.6	1357.4	1308.4	1274.9	1192.8	1110.7
75°	*1139.9*	1141.9	1135.5	1112.1	1087.0	1055.8	1062.5	1058.1	1042.1	955.3	873.9
77.5°	*900.0*	877.9	886.9	850.1	817.6	817.2	830.3	843.0	850.1	780.4	717.4
80°	*633.6*	628.6	620.5	623.9	597.1	604.1	610.5	619.2	605.5	564.3	535.1
82.5°	*400.1*	395.7	389.3	420.2	446.0	440.3	419.8	387.0	379.3	382.3	375.6
85°	*378.3*	378.0	372.3	369.2	365.2	356.2	361.2	368.2	364.2	341.4	311.9
87.5°	*357.2*	356.2	351.8	350.1	342.4	341.4	346.1	348.8	350.5	330.0	305.2
90°	*313.0*	308.9	304.9	308.3	307.3	307.9	309.3	308.6	309.3	285.1	274.8
92.5°	*261.0*	260.0	257.0	258.7	261.0	270.4	266.4	260.0	259.0	249.3	239.2
95°	*238.2*	238.9	235.2	237.6	238.2	238.2	235.6	232.5	230.2	222.5	213.4
97.5°	*197.4*	194.3	193.0	194.7	195.3	193.0	191.3	186.3	186.0	178.3	173.9
100°	*167.9*	167.2	166.5	168.5	169.2	168.2	168.5	165.5	165.2	160.8	156.1
102.5°	*156.8*	156.5	156.1	157.8	158.5	157.8	156.8	153.8	154.5	149.8	146.4
105°	*148.1*	148.1	147.8	148.8	146.8	145.8	144.4	144.4	145.1	141.4	136.4
107.5°	*138.4*	138.0	138.4	138.0	135.7	134.7	134.4	133.4	135.7	133.7	128.3

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*140.1*	140.1	139.7	136.0	134.7	133.0	132.4	134.0	133.4	130.0	126.7
112.5°	*171.6*	169.5	170.9	165.9	163.5	164.9	165.5	166.9	169.5	164.2	159.2
115°	*191.7*	192.0	195.3	195.3	190.3	192.7	192.7	192.3	195.0	191.0	186.0
117.5°	*156.5*	158.5	169.2	162.5	164.2	165.5	157.1	154.1	153.5	154.5	165.2
120°	*180.3*	177.6	187.6	166.5	160.2	160.2	166.2	173.9	165.5	152.8	156.1
122.5°	*294.9*	295.2	295.5	304.6	303.6	306.3	301.6	295.5	278.1	278.4	262.7
125°	*451.3*	447.0	447.0	443.0	442.3	435.9	444.0	449.0	435.6	412.8	388.0
127.5°	*431.9*	441.3	437.9	427.9	418.2	414.8	424.2	439.9	432.2	412.1	389.3
130°	*306.6*	308.9	308.3	319.0	321.7	318.3	321.7	310.3	311.9	316.6	304.6
132.5°	*257.0*	255.7	260.3	275.1	280.8	274.1	264.7	256.3	256.7	266.7	266.0
135°	*221.5*	220.5	223.8	224.5	230.9	225.5	217.1	217.1	219.1	221.5	220.5
137.5°	*200.0*	198.7	199.7	192.0	184.3	184.0	190.7	194.3	192.3	190.0	187.3
140°	*172.2*	172.9	171.2	164.9	161.5	162.2	166.5	172.2	170.5	165.5	161.5
142.5°	*137.0*	135.7	137.7	142.4	149.1	149.1	142.4	135.4	135.0	137.4	140.7
145°	*135.0*	134.4	134.7	133.7	135.0	133.7	131.7	129.7	127.3	125.7	124.3
147.5°	*146.4*	146.4	146.1	144.4	143.1	140.7	141.4	143.7	145.1	143.7	141.7
150°	*118.9*	120.0	120.0	119.6	118.3	119.3	120.6	121.3	122.6	122.6	120.6
152.5°	*91.5*	91.1	92.1	90.8	90.5	91.1	92.8	94.2	94.5	94.5	91.8
155°	*87.1*	86.4	87.1	86.4	85.8	86.4	87.8	88.5	89.1	88.1	85.4
157.5°	*81.4*	81.4	81.4	80.8	81.1	81.1	81.8	82.1	82.4	82.1	81.4
160°	*77.1*	77.1	77.4	77.1	77.1	77.7	77.4	77.1	77.1	76.7	76.4
162.5°	*74.4*	74.4	74.4	74.4	74.0	74.0	74.4	74.0	73.7	73.4	74.0
165°	*73.0*	72.7	72.7	72.7	73.0	72.7	72.7	72.7	72.4	73.4	74.7
167.5°	*75.7*	75.1	75.4	75.7	75.7	75.4	75.4	75.4	76.1	77.1	78.1
170°	*79.4*	79.1	79.1	79.4	79.4	79.1	79.1	79.1	79.4	79.7	80.1
172.5°	*82.4*	82.1	82.1	82.1	81.8	81.4	81.4	81.4	81.4	81.4	81.8
175°	*85.4*	85.4	85.4	85.4	85.1	84.8	84.8	84.8	84.8	84.8	84.8
177.5°	*88.8*	88.5	88.8	88.5	88.5	88.5	88.1	87.8	87.5	87.5	87.5
180°	*88.1*	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
2.5°	34.2	33.8	31.8	30.2	28.8	27.5	25.5	23.8	22.4	22.1	22.1
5°	44.2	43.6	41.5	38.9	37.5	35.5	33.5	32.2	30.5	29.8	30.2
7.5°	61.0	61.3	62.0	63.3	62.7	57.0	50.6	49.3	50.6	52.6	53.6
10°	75.7	74.7	74.4	78.7	77.7	69.4	61.0	58.3	60.6	65.0	67.0
12.5°	87.8	85.8	85.4	86.1	82.1	73.0	66.0	63.0	64.3	67.7	67.3
15°	105.5	102.5	98.2	95.5	90.5	84.1	75.4	70.4	70.4	70.4	70.0
17.5°	115.9	112.6	104.2	96.5	90.1	85.4	79.7	75.1	70.0	69.4	69.0
20°	125.0	120.0	110.9	102.5	94.5	87.8	79.7	74.0	69.7	69.0	68.7
22.5°	132.7	128.0	118.3	108.2	98.2	90.5	81.8	75.7	71.4	70.0	69.7
25°	143.1	138.0	127.0	115.3	103.5	93.8	85.8	78.7	73.4	70.7	70.7
27.5°	153.5	147.8	135.4	123.3	110.6	98.5	89.5	82.4	75.7	72.0	71.7
30°	163.5	157.1	143.7	130.0	117.3	104.5	94.2	86.1	78.7	74.7	74.4
32.5°	177.6	170.2	154.5	137.4	124.6	110.9	99.2	89.8	82.1	78.1	77.4
35°	205.1	196.7	178.9	156.8	136.7	118.3	104.2	91.8	84.4	80.1	79.7
37.5°	256.0	246.3	221.5	194.3	166.9	139.1	113.3	94.5	86.1	82.1	81.4
40°	286.5	267.4	241.2	219.8	199.0	172.2	139.1	109.6	89.5	84.8	84.1
42.5°	326.0	306.3	268.4	227.5	201.0	179.9	156.5	137.4	108.6	91.8	88.8
45°	363.5	348.5	316.0	272.4	232.2	195.7	166.5	148.1	129.7	110.6	107.6
47.5°	426.5	404.4	361.5	317.0	276.1	235.2	200.7	164.9	141.1	129.7	129.0
50°	588.0	547.8	485.8	432.6	355.5	292.8	252.0	204.1	173.6	155.8	150.1
52.5°	796.8	754.9	684.2	607.1	521.7	440.9	360.9	292.2	242.6	211.4	212.4
55°	1107.7	1065.8	962.0	830.0	712.7	628.6	542.8	459.4	379.6	333.7	328.0
57.5°	1435.8	1398.2	1309.4	1148.3	961.6	806.2	704.3	645.3	604.5	554.5	554.5
60°	1676.3	1614.0	1513.5	1351.0	1185.5	981.1	850.4	766.0	758.6	749.9	756.6
62°	*1799.3*	*1718.9*	*1575.5*	*1392.9*	*1239.1*	*1057.1*	*930.1*	*846.4*	*831.6*	*798.8*	*799.5*
62.5°	1820.1	1731.3	1585.9	1392.9	1243.8	1063.8	938.9	857.1	836.7	796.5	797.1
65°	1840.9	1734.0	1593.6	1370.4	1217.3	1040.7	944.6	838.0	784.4	717.0	697.3
67.5°	1721.6	1612.0	1491.7	1274.3	1115.1	944.6	838.0	731.1	643.7	575.3	564.6
70°	1398.2	1312.1	1219.3	1053.1	914.1	776.0	685.5	589.0	501.9	426.5	431.2
72.5°	1061.2	980.7	895.6	790.1	703.6	610.8	530.7	453.0	380.6	333.7	342.4
75°	821.9	768.3	708.0	631.3	565.6	479.8	388.7	319.7	270.7	242.3	243.9
77.5°	675.8	620.2	571.0	500.6	438.3	350.5	262.7	203.7	175.2	162.5	159.2
80°	519.7	479.1	435.6	372.6	303.9	236.2	176.6	149.1	130.3	121.0	117.3
82.5°	362.9	337.7	301.2	255.7	216.1	191.3	165.5	142.4	123.0	114.3	110.2
85°	298.9	285.5	265.4	239.6	216.1	188.6	159.8	136.4	119.6	112.9	109.2
87.5°	291.2	282.1	259.3	231.9	203.7	175.6	146.4	124.6	113.9	109.6	106.2
90°	267.0	256.7	240.6	213.4	188.3	158.2	134.4	121.3	113.3	108.2	104.5
92.5°	232.9	227.2	212.4	193.0	175.6	156.1	139.1	127.3	118.9	112.9	109.2
95°	207.1	200.4	192.0	176.2	161.8	146.1	130.3	119.3	110.6	104.2	101.2
97.5°	170.2	165.5	157.5	147.1	136.4	123.6	112.6	105.2	99.5	96.5	94.5
100°	154.5	151.5	146.8	139.4	130.7	121.6	113.6	109.6	107.2	105.2	104.2
102.5°	143.1	139.7	136.0	128.3	121.6	113.6	108.2	104.9	101.9	98.5	97.8
105°	133.0	130.3	125.3	118.9	112.2	104.5	98.2	96.2	93.5	90.5	90.1
107.5°	125.3	122.6	118.3	111.6	105.5	98.8	93.1	90.1	87.1	85.4	85.1

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

Scaled Data Report

REPORT NUMBER: P1046368
CATALOG NUMBER: FFX-CLB-40-722-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	124.6	122.6	117.9	112.2	107.6	100.9	94.5	93.5	90.1	86.1	85.8
112.5°	155.5	149.1	140.1	130.7	122.6	115.9	107.9	99.9	93.1	89.1	88.5
115°	180.3	173.9	162.8	149.1	136.4	122.0	108.2	98.2	94.5	93.5	94.8
117.5°	169.5	156.1	137.4	129.0	117.9	110.2	104.9	102.5	96.5	98.2	99.9
120°	162.8	153.8	137.4	136.0	131.0	122.3	109.9	107.2	103.9	101.2	100.9
122.5°	261.7	253.0	234.2	205.7	174.9	154.1	146.4	130.3	110.9	96.2	93.8
125°	370.9	356.8	320.0	288.5	247.6	203.7	164.2	130.3	103.9	89.8	88.1
127.5°	378.3	362.5	330.4	287.8	235.9	182.3	141.4	116.9	99.2	89.8	88.1
130°	294.9	284.8	261.0	221.1	185.3	153.5	130.3	110.6	94.5	87.5	86.4
132.5°	260.7	251.6	217.8	184.6	160.8	136.4	116.9	98.2	84.4	79.7	79.1
135°	215.4	205.4	182.9	162.5	145.1	125.3	105.9	89.8	80.1	77.7	77.4
137.5°	184.0	179.3	162.5	148.1	132.4	115.3	99.2	86.8	80.8	78.7	78.4
140°	158.8	157.8	147.4	134.7	118.9	100.9	88.5	81.1	78.7	77.7	77.4
142.5°	140.4	139.1	127.7	112.9	98.8	89.5	84.8	82.4	80.4	77.7	77.1
145°	121.6	119.3	112.2	105.9	101.5	98.5	94.2	86.8	79.1	75.1	74.7
147.5°	138.4	134.4	126.7	117.6	108.2	98.5	89.5	81.8	75.4	73.0	72.7
150°	116.3	115.9	110.9	103.9	96.8	88.1	81.4	76.4	73.7	73.4	73.4
152.5°	90.1	90.1	90.1	88.5	85.1	80.4	75.4	72.4	72.4	73.7	74.0
155°	84.8	85.1	85.4	84.8	82.1	77.7	73.4	72.0	72.4	73.7	74.0
157.5°	80.8	80.8	81.1	80.4	79.1	76.1	73.0	71.7	72.0	72.7	73.0
160°	76.1	76.1	76.4	76.4	75.1	74.0	72.7	71.7	71.7	72.0	72.4
162.5°	74.4	74.4	74.4	74.4	74.0	74.0	74.0	74.0	73.7	73.7	73.7
165°	75.1	75.1	74.0	73.7	74.4	75.4	77.1	77.4	75.7	75.4	75.4
167.5°	78.4	78.4	77.4	76.7	77.7	78.7	81.1	81.8	80.4	79.1	79.1
170°	80.4	80.4	80.4	80.8	81.1	82.1	83.4	84.1	83.8	83.4	83.4
172.5°	81.8	81.8	82.4	83.1	84.1	84.8	85.4	86.1	86.8	86.8	87.1
175°	84.4	84.8	85.4	85.8	86.4	87.1	87.8	88.5	88.8	88.8	88.8
177.5°	87.1	87.1	87.1	87.5	87.8	88.1	88.5	88.8	88.8	89.1	89.5
180°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

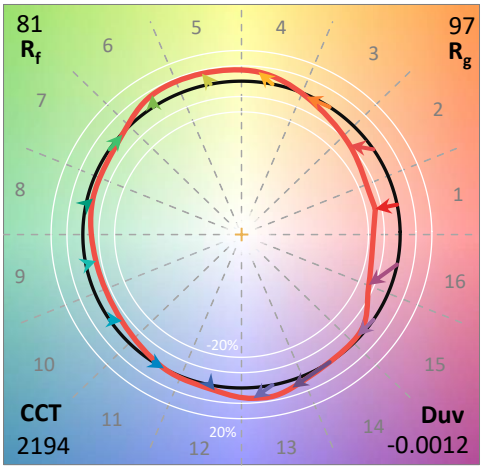
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

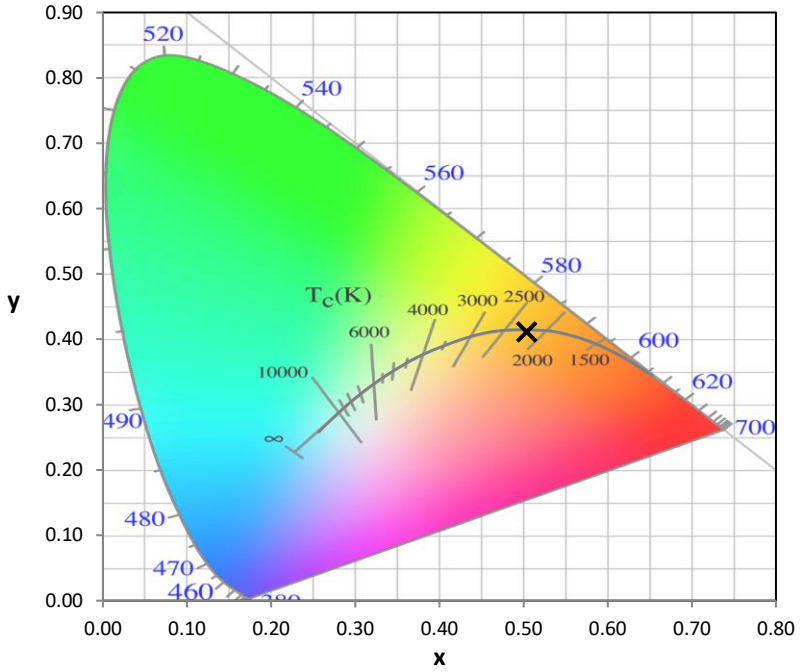
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

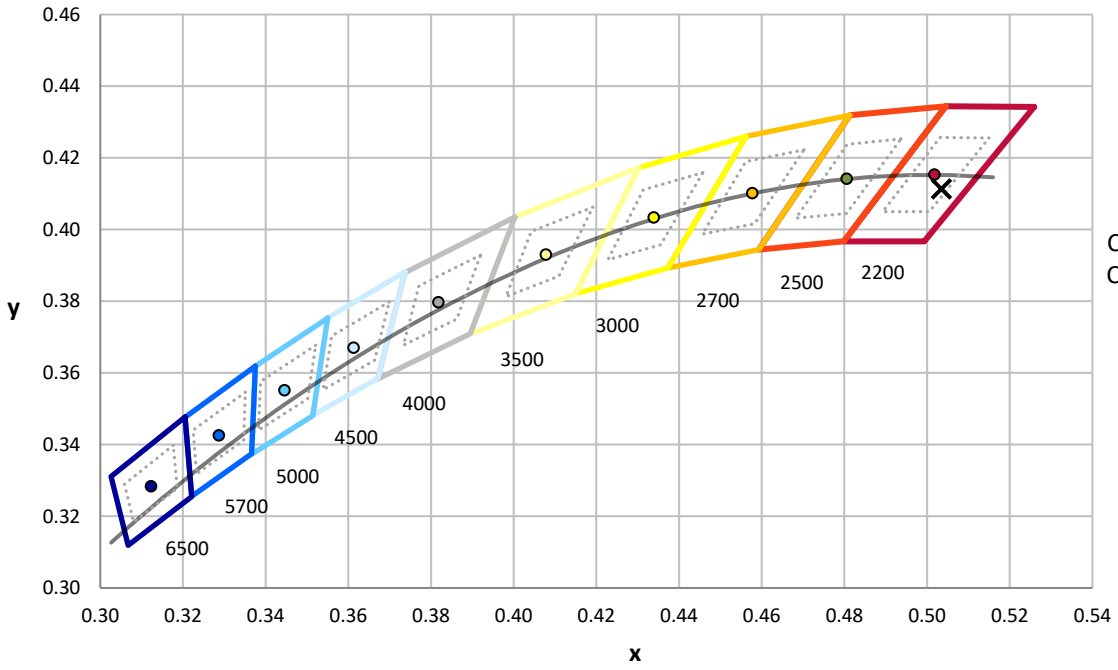
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

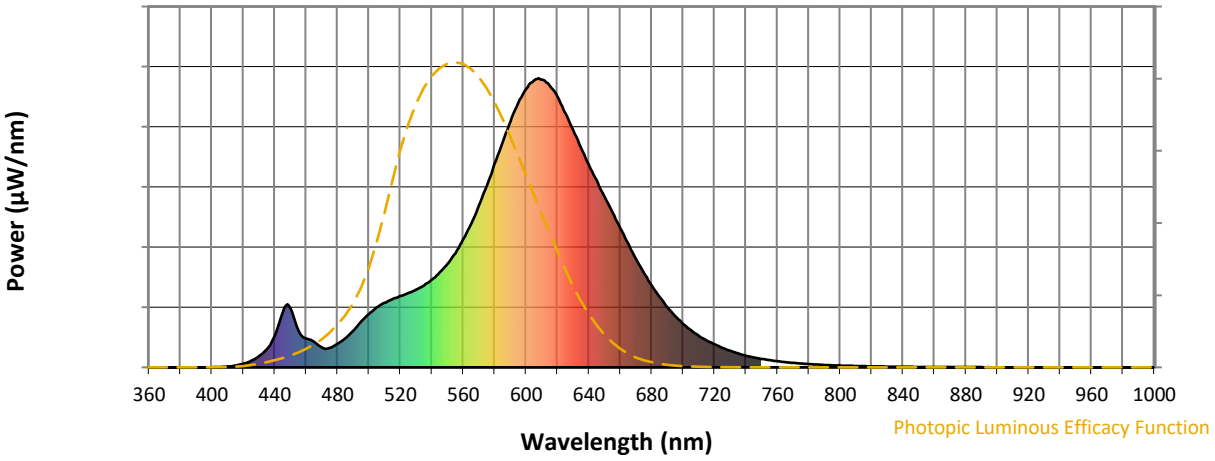


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

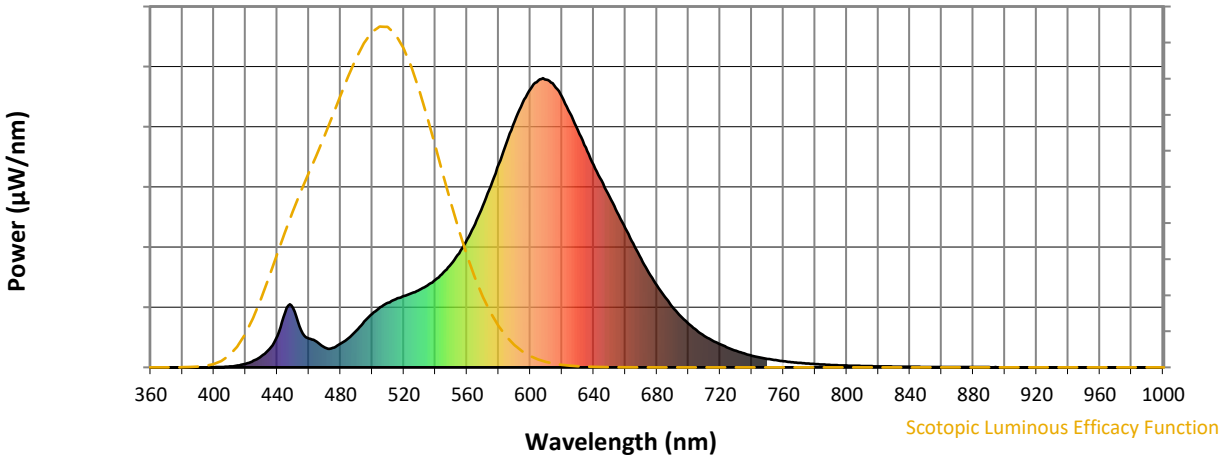


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

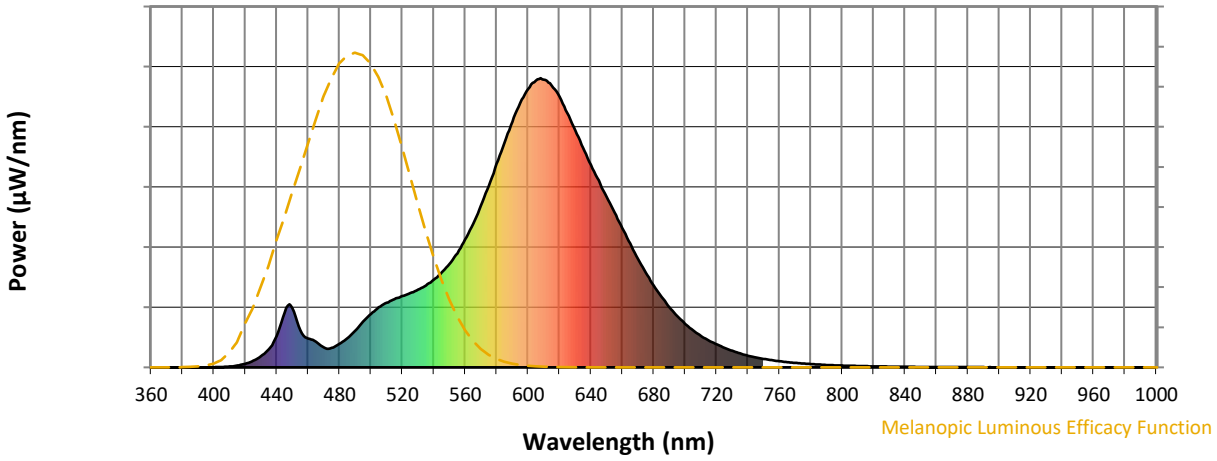


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

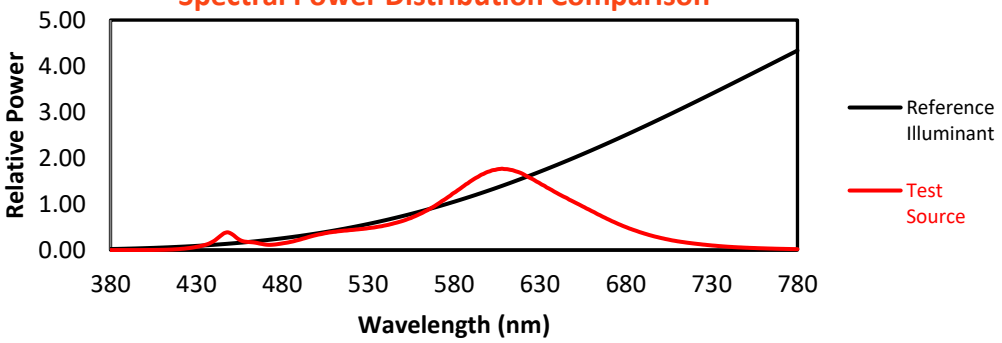
REPORT NUMBER: SP1-2501-332-7

TM-30-18

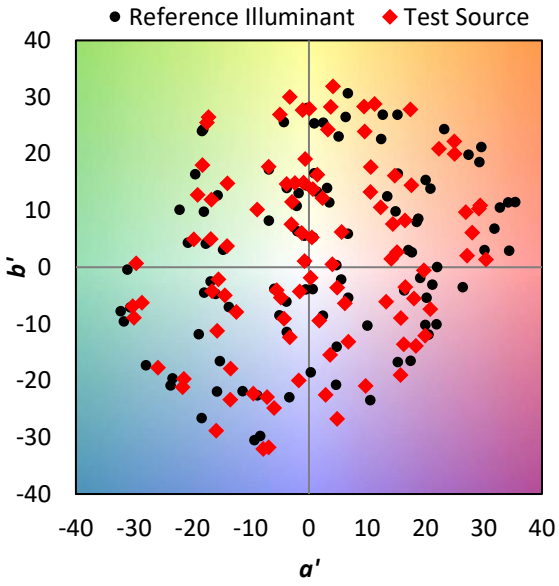
Summary

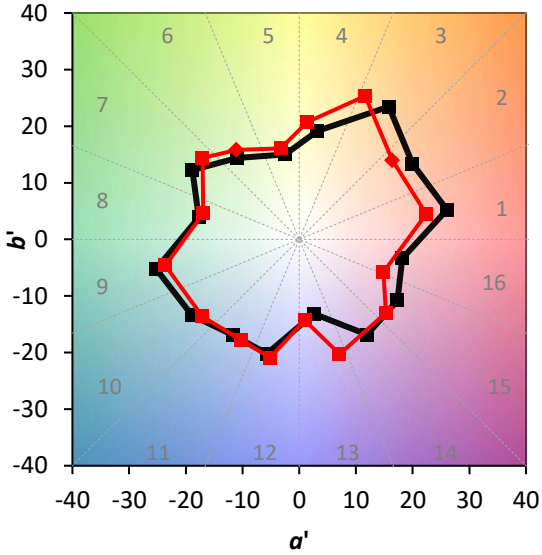
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

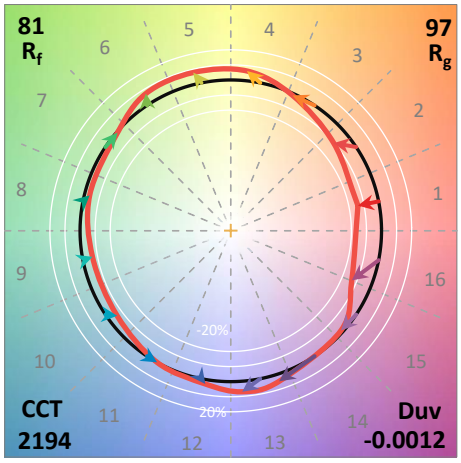
Spectral Power Distribution Comparison

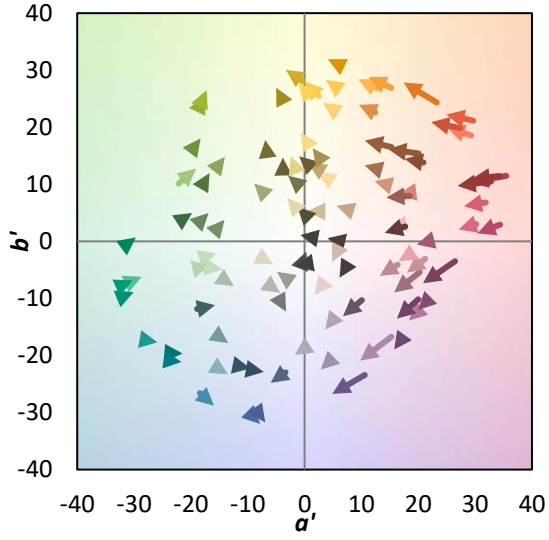


Color Vector Graphics







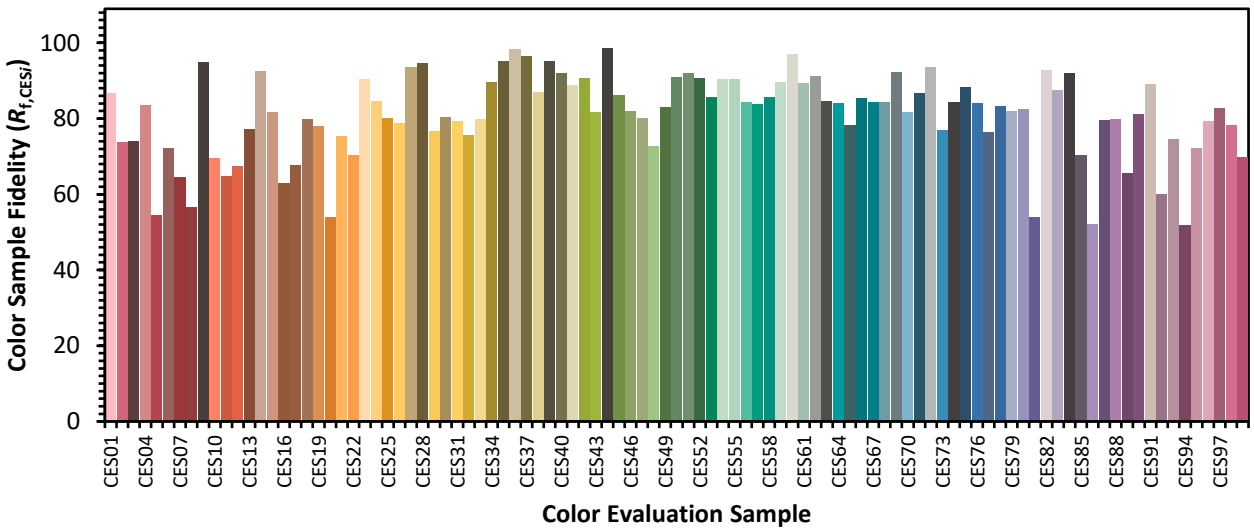


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

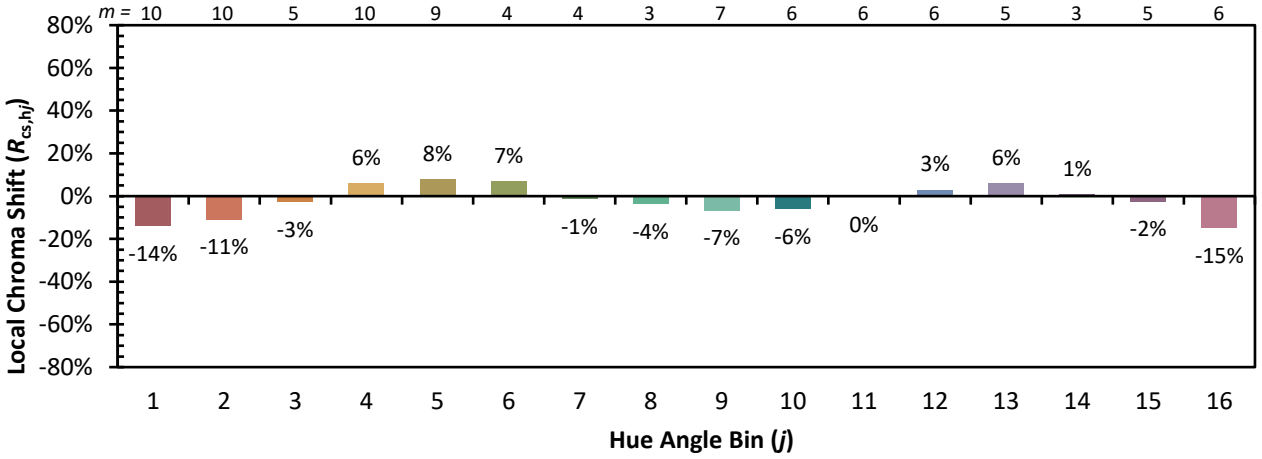
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

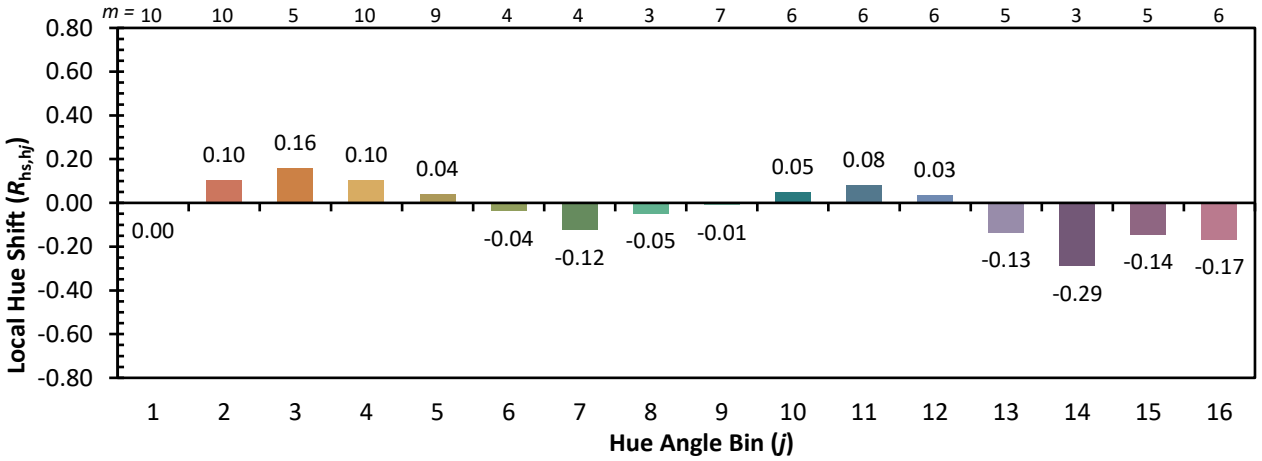


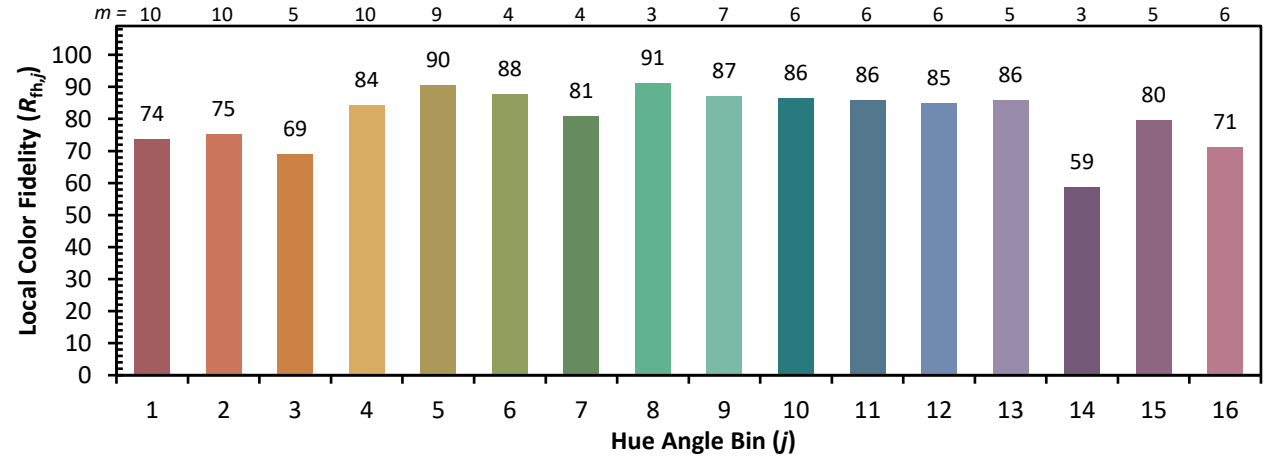
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Color Rendition by Hue-Angle Bin



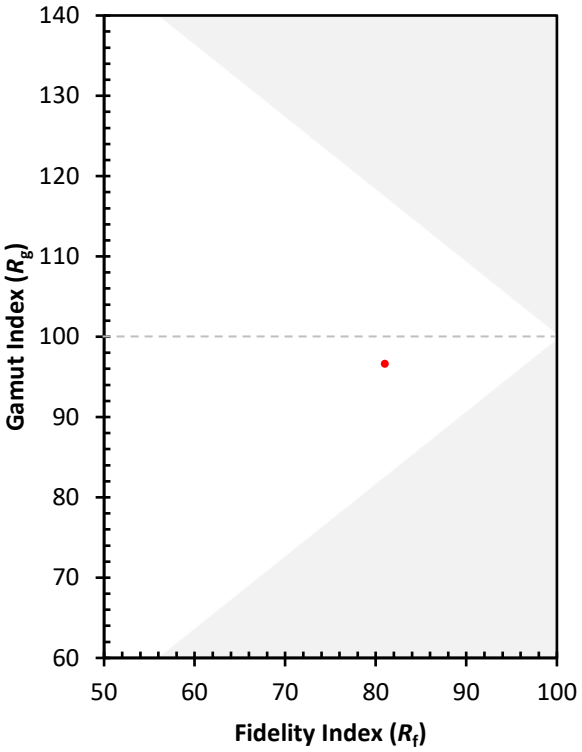


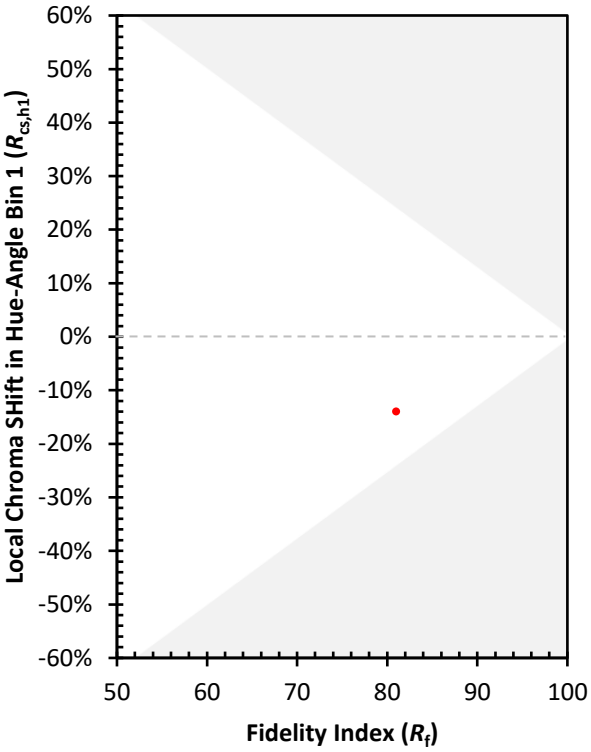


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Measure Comparisons





(END OF REPORT)