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: P1046207

Luminaire Tested: **FFX-CLB-30-730-U-FR-T4-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046207
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4468.4 lumens
Efficiency:	N/A
Efficacy:	146.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

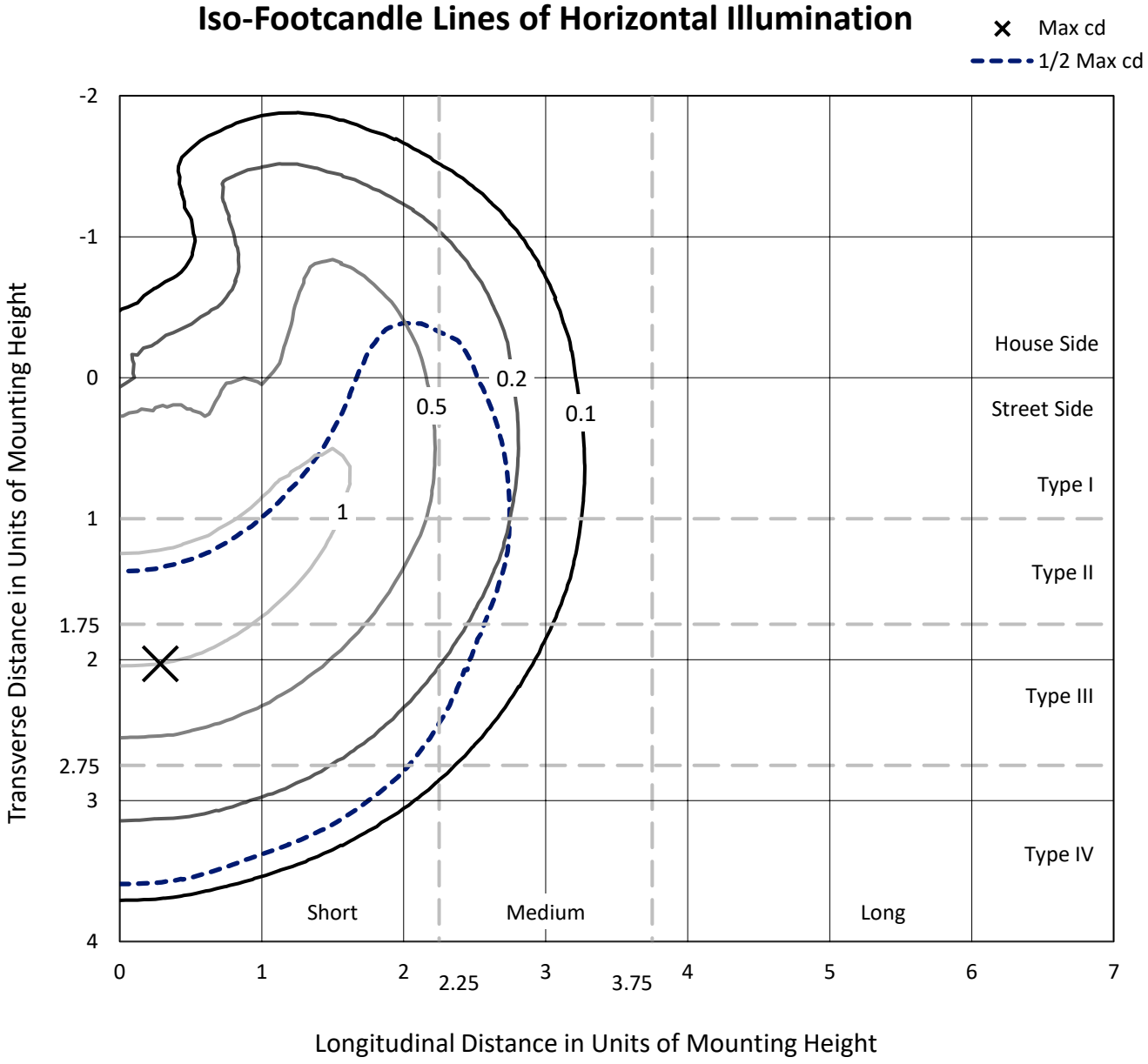


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Iso-Footcandle Lines of Horizontal Illumination



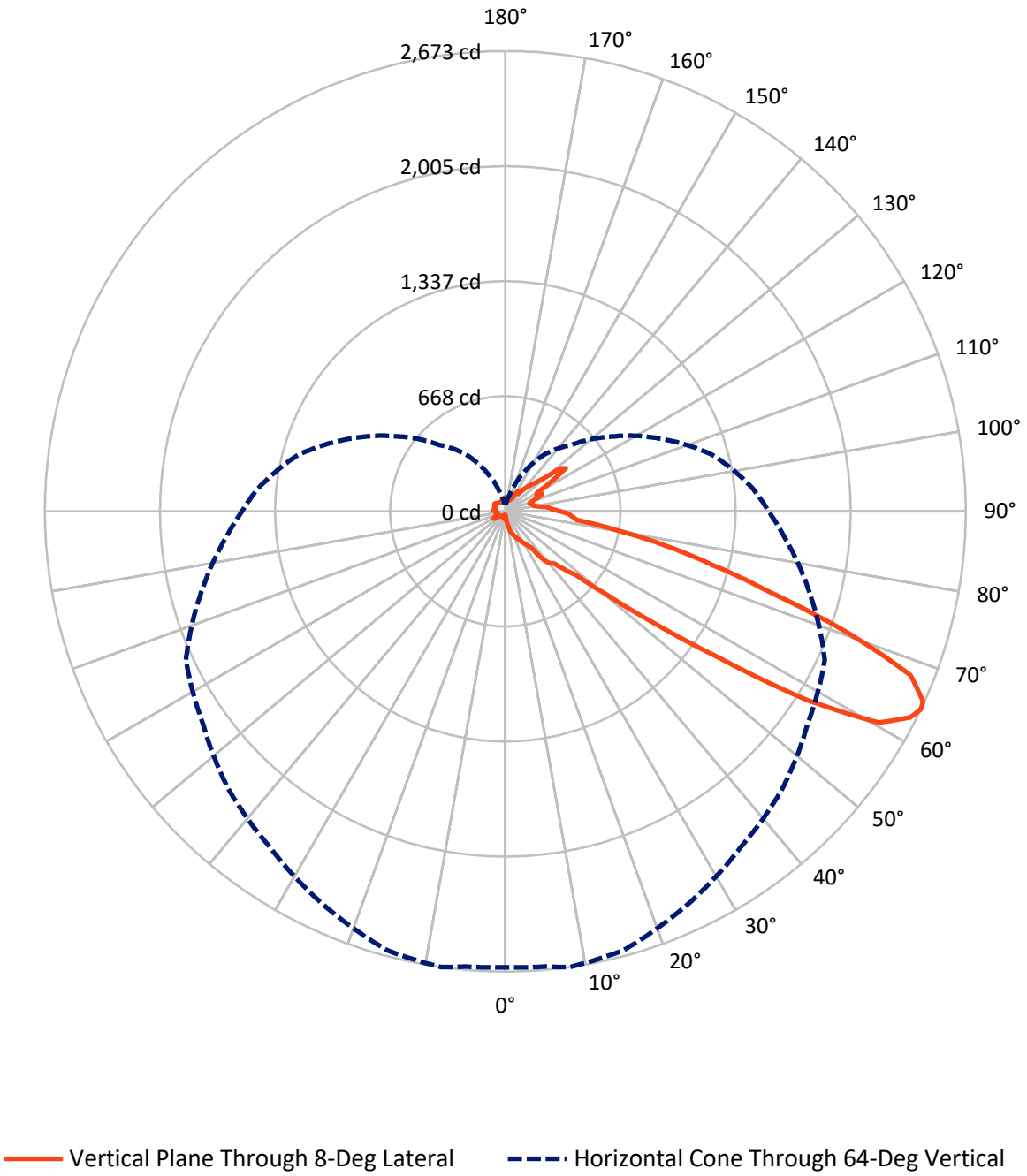
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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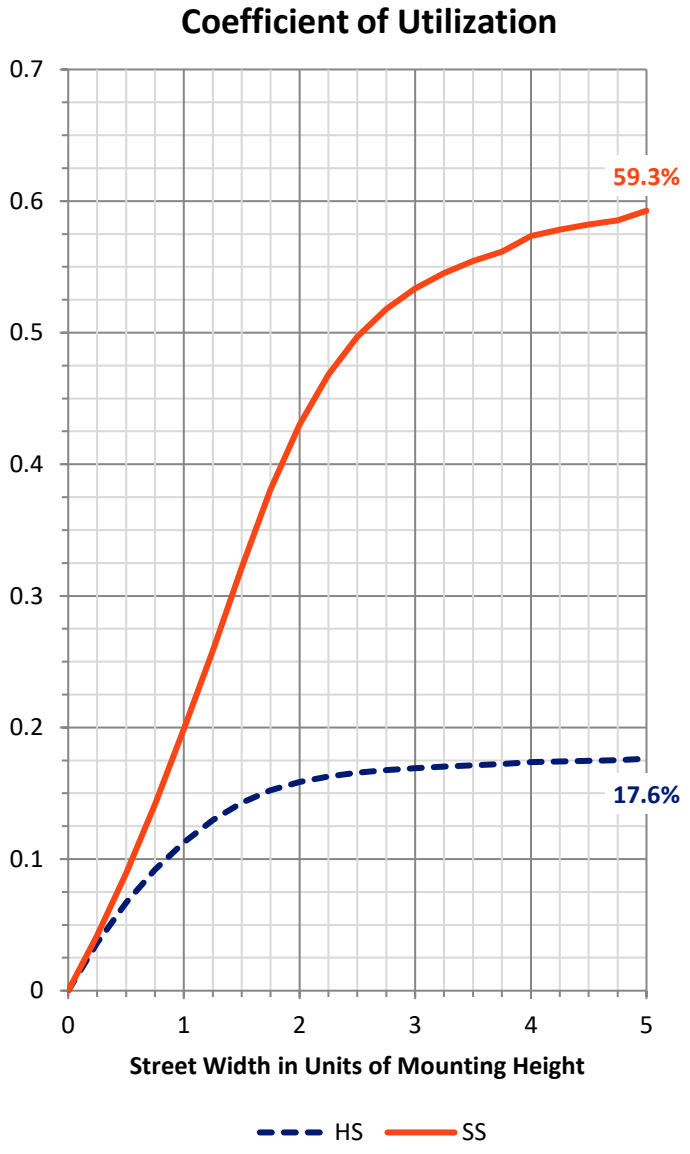
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.2	305.3	1122.5
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	2761.4	584.5	3345.9
	% Fixture	61.8	13.1	74.9
Total	Lumens	3578.6	889.8	4468.4
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	24.6	0.6
20°-30°	53.4	1.2
30°-40°	106.7	2.4
40°-50°	231.1	5.2
50°-60°	801.0	17.9
60°-70°	1347.3	30.2
70°-80°	732.6	16.4
80°-90°	277.3	6.2
90°-100°	175.0	3.9
100°-110°	118.1	2.6
110°-120°	127.7	2.9
120°-130°	210.2	4.7
130°-140°	129.5	2.9
140°-150°	67.7	1.5
150°-160°	35.3	0.8
160°-170°	19.2	0.4
170°-180°	7.2	0.2
0°-90°	3578.6	80.1
0°-180°	4468.4	100.0



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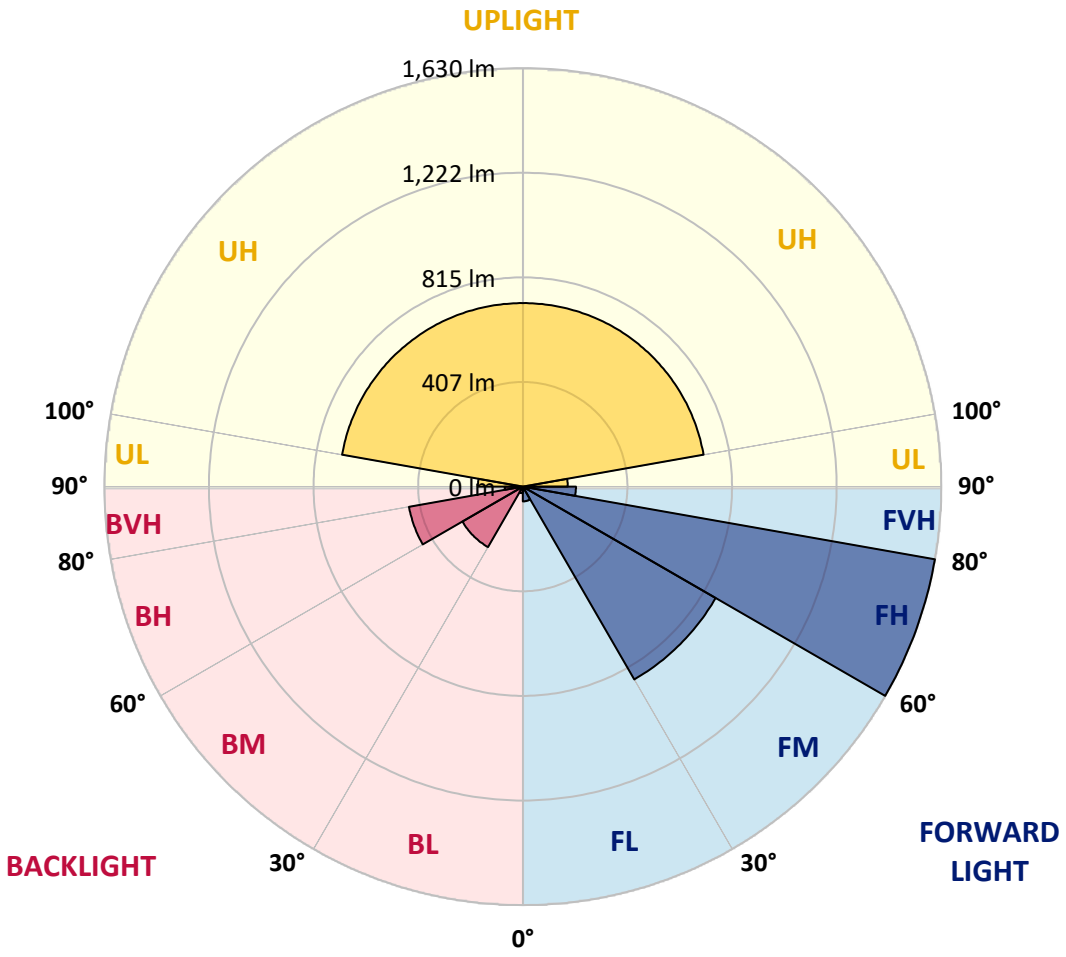
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	57.5	1.3			
FM	(30°-60°)	867.2	19.4			
FH	(60°-80°)	1629.9	36.5			G1/1800
FVH	(80°-90°)	206.9	4.6			G2/225
BL	(0°-30°)	25.1	0.6	B0/110		
BM	(30°-60°)	271.6	6.1	B1/1000		
BH	(60°-80°)	450.0	10.1	B1/500		G1/500
BVH	(80°-90°)	70.4	1.6			G1/100
UL	(90°-100°)	175.0	3.9		U3/500	
UH	(100°-180°)	714.8	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28.7	28.7	*28.7*	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	31.2	31.2	*31.2*	32.1	32.7	33.1	32.1	31.5	31.2	30.9	30.0
5°	44.8	45.1	*45.1*	46.0	45.4	46.0	44.8	43.9	42.3	40.5	38.9
7.5°	63.3	63.3	*63.0*	63.3	63.0	61.8	61.8	62.7	60.2	56.5	53.1
10°	85.9	86.5	*86.2*	84.9	83.1	81.5	81.5	82.8	79.1	72.6	67.6
12.5°	108.7	110.0	*108.7*	109.0	106.0	104.7	102.2	101.6	96.7	90.5	81.9
15°	125.7	126.6	*127.0*	127.9	127.6	123.6	119.2	114.6	110.6	105.0	96.1
17.5°	139.3	139.6	*140.2*	139.9	138.1	134.1	129.1	124.2	117.7	111.8	103.5
20°	152.6	153.8	*153.5*	153.2	152.3	149.2	143.3	136.2	130.7	122.0	113.4
22.5°	166.2	165.3	*165.9*	165.6	165.6	162.5	156.3	148.0	140.5	131.9	124.2
25°	181.9	181.6	*181.9*	181.0	179.8	178.2	170.5	160.9	152.6	143.6	132.8
27.5°	198.6	198.9	*199.2*	197.7	196.2	193.7	182.6	173.0	164.0	152.9	137.8
30°	217.2	216.2	*216.5*	214.4	213.5	205.7	194.9	183.5	173.6	158.8	143.9
32.5°	234.1	232.6	*232.3*	230.4	228.9	217.8	206.7	195.5	183.8	168.7	155.7
35°	257.9	261.0	*259.8*	259.8	263.8	246.8	233.8	223.0	210.4	194.6	181.0
37.5°	354.9	354.3	*350.6*	345.7	331.8	319.7	313.8	296.9	276.5	259.2	237.5
40°	401.9	400.0	*396.0*	386.1	376.2	362.0	353.1	342.6	332.1	301.5	266.9
42.5°	413.0	411.5	*412.4*	424.1	437.1	426.6	391.7	353.7	335.2	314.5	297.2
45°	473.9	479.1	*480.6*	480.3	471.1	460.0	444.8	422.0	389.8	360.5	324.3
47.5°	551.1	550.5	*554.2*	549.2	556.9	537.5	518.0	494.2	460.9	421.0	377.8
50°	753.1	746.6	*747.5*	749.4	737.7	723.4	705.8	692.6	627.4	570.8	505.1
52.5°	1074.0	1075.0	*1068.2*	1067.9	1033.0	1005.5	974.6	975.8	880.1	804.1	708.9
55°	1509.6	1510.2	*1485.8*	1505.9	1466.7	1463.0	1394.7	1306.6	1177.8	1074.4	978.6
57.5°	2052.0	2070.6	*2068.4*	2032.6	1972.6	1940.2	1829.9	1737.6	1555.3	1392.8	1262.8
60°	2514.1	2505.5	*2491.3*	2464.1	2284.6	2209.3	2128.0	2049.2	1898.2	1673.3	1478.7
62.5°	2646.0	2639.6	*2637.1*	2623.5	2481.7	2357.5	2255.3	2126.5	2025.5	1804.9	1606.6
64°	*2648.2*	*2654.1*	*2673.2*	*2640.8*	*2514.8*	*2382.2*	*2276.3*	*2144.7*	*2046.5*	*1829.0*	*1622.0*
65°	2643.3	2642.0	*2666.1*	2625.0	2513.2	2381.0	2263.3	2137.3	2040.0	1822.5	1618.0
67.5°	2510.7	2505.5	*2536.4*	2483.6	2385.9	2266.7	2151.2	2015.9	1930.3	1721.5	1523.5
70°	2060.4	2060.1	*2108.2*	2064.1	2035.0	1908.7	1790.7	1666.5	1575.1	1403.6	1238.1
72.5°	1578.8	1576.0	*1608.1*	1575.1	1560.3	1500.6	1390.4	1280.7	1193.6	1065.1	931.0
75°	1258.2	1259.4	*1242.4*	1210.0	1197.9	1171.3	1122.2	1056.7	983.8	867.1	743.5
77.5°	942.1	936.0	*943.4*	898.0	894.6	886.5	886.2	844.2	782.4	708.0	610.1
80°	628.0	631.7	*645.0*	632.9	636.3	633.6	650.9	606.4	559.4	515.6	463.4
82.5°	406.2	416.1	*419.8*	436.5	451.0	457.5	433.7	388.9	359.6	343.5	320.3
85°	389.8	393.8	*391.7*	381.8	376.9	368.8	368.5	354.3	339.2	308.3	270.6
87.5°	359.6	364.2	*362.3*	353.7	342.6	341.6	339.5	329.6	322.5	298.1	264.7
90°	306.7	307.0	*308.6*	307.0	304.9	303.3	291.0	285.1	280.8	259.8	237.2
92.5°	266.0	269.7	*268.7*	266.0	258.9	263.2	249.9	238.8	236.3	221.8	204.5
95°	244.3	246.8	*247.4*	242.5	235.7	234.1	224.0	215.3	211.3	201.7	180.7
97.5°	202.6	201.1	*199.9*	198.6	194.0	189.0	182.6	171.7	168.4	157.8	146.1
100°	173.0	173.6	*173.0*	172.1	168.0	165.6	160.9	152.3	148.6	141.8	133.8
102.5°	165.0	165.3	*165.3*	165.6	158.8	153.2	148.3	142.1	138.7	132.8	125.1
105°	157.5	157.5	*158.2*	158.5	151.7	143.6	136.5	133.1	131.6	124.8	116.8
107.5°	148.3	148.0	*148.9*	144.9	138.1	134.7	127.3	123.3	122.6	117.4	109.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	161.9	158.5	*157.8*	148.0	138.7	131.0	127.3	123.6	121.4	114.3	109.0
112.5°	211.9	207.3	*206.0*	196.8	164.3	161.6	158.2	156.9	155.7	146.1	137.2
115°	233.5	233.5	*237.2*	233.5	211.0	185.3	181.6	176.1	178.2	166.5	153.5
117.5°	186.9	199.9	*203.6*	192.4	193.4	177.0	151.7	143.0	138.7	135.3	141.2
120°	209.7	218.4	*214.7*	194.3	185.0	175.5	176.7	173.6	158.2	136.8	139.0
122.5°	312.6	320.6	*323.4*	325.0	329.3	322.8	308.3	287.9	272.4	246.8	232.3
125°	437.7	431.8	*431.2*	434.0	437.4	429.1	422.9	418.9	409.3	375.6	328.4
127.5°	401.9	399.1	*403.7*	403.1	411.5	397.2	394.5	396.6	392.9	374.1	346.6
130°	288.2	293.1	*296.5*	307.7	324.0	311.4	299.6	282.0	280.8	290.1	275.5
132.5°	241.9	244.0	*250.2*	264.7	277.1	271.8	254.5	237.5	236.3	244.0	242.8
135°	213.8	215.3	*216.2*	216.8	214.7	219.6	215.9	209.7	205.7	206.0	202.3
137.5°	190.9	191.5	*190.9*	186.0	180.1	179.2	188.4	188.7	185.0	178.5	173.6
140°	165.6	165.6	*163.1*	159.7	158.8	159.1	164.3	165.3	160.9	155.7	148.3
142.5°	129.4	127.9	*128.2*	133.8	143.6	141.5	134.7	126.0	124.8	131.0	128.5
145°	139.9	139.6	*138.7*	139.0	136.5	132.5	130.0	127.3	122.3	118.3	114.3
147.5°	141.2	139.9	*140.5*	139.3	138.1	136.2	135.3	136.5	135.3	132.5	127.3
150°	111.5	112.1	*112.7*	111.2	112.4	113.1	112.4	111.5	113.1	109.7	107.5
152.5°	87.1	86.8	*86.5*	87.1	86.8	88.0	88.3	88.0	87.4	87.1	83.7
155°	81.9	82.8	*82.2*	80.3	81.5	82.5	83.7	84.6	83.7	82.2	79.1
157.5°	75.4	75.4	*75.4*	75.4	75.7	76.0	77.5	78.2	78.2	77.2	75.1
160°	70.1	70.4	*70.4*	70.4	71.0	71.7	72.6	73.2	73.8	73.2	72.0
162.5°	67.0	66.7	*66.7*	67.0	67.0	68.0	68.9	70.1	70.4	69.8	69.8
165°	65.2	65.2	*65.2*	65.5	66.1	66.7	68.0	68.3	68.6	69.2	69.2
167.5°	67.3	67.3	*67.3*	67.6	68.3	69.2	69.8	70.4	71.7	72.0	72.0
170°	70.7	70.7	*70.7*	71.0	71.4	71.7	72.0	72.6	72.9	73.5	73.2
172.5°	74.1	73.8	*74.1*	74.1	74.1	74.1	74.1	74.4	74.8	74.8	74.8
175°	77.8	77.8	*78.2*	77.8	77.2	77.2	77.2	77.5	77.5	77.5	77.2
177.5°	81.5	81.5	*81.2*	81.5	81.2	80.9	80.6	80.3	79.7	79.7	79.1
180°	79.4	79.4	*79.4*	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	29.3	28.1	26.6	24.7	22.9	21.6	20.4	18.8	17.9	17.6	17.6
5°	37.1	36.1	34.6	32.1	30.6	27.8	25.3	23.8	22.2	20.7	19.5
7.5°	51.9	51.6	52.5	54.4	51.9	45.4	38.6	34.9	35.2	37.1	38.0
10°	65.2	63.3	63.6	68.0	63.9	51.6	42.3	38.9	40.8	44.5	45.1
12.5°	79.1	76.3	74.1	73.2	64.3	50.4	42.0	38.0	38.9	42.0	42.0
15°	91.7	88.3	83.4	76.9	66.4	54.1	43.9	38.0	38.0	37.7	37.1
17.5°	98.8	95.1	86.2	76.0	64.6	53.4	42.9	37.1	34.0	31.5	31.2
20°	110.0	108.1	96.7	82.2	66.4	52.2	41.4	35.5	32.1	30.3	29.7
22.5°	120.8	115.5	100.7	85.9	68.0	51.9	40.8	35.2	32.1	30.6	30.0
25°	126.6	120.2	105.3	90.2	70.1	52.2	41.4	35.8	32.4	30.9	30.6
27.5°	131.3	124.5	110.6	94.2	72.9	53.4	43.2	36.8	33.1	31.2	30.9
30°	137.5	131.0	116.8	99.2	75.4	56.2	45.4	38.3	34.0	32.1	31.8
32.5°	149.2	141.2	124.5	103.5	78.5	59.0	48.2	40.8	35.5	32.7	32.7
35°	173.6	165.0	142.7	115.2	81.9	61.2	50.0	42.3	36.8	33.7	33.4
37.5°	224.9	214.1	186.9	144.3	90.2	64.3	52.2	43.2	37.4	34.6	34.0
40°	249.6	229.5	198.9	161.2	104.1	69.2	55.6	45.4	38.3	34.9	34.6
42.5°	279.6	262.9	220.9	165.6	115.5	80.6	61.5	48.5	40.2	35.5	35.2
45°	308.9	292.5	255.2	201.4	139.0	98.5	71.0	53.7	42.9	37.1	36.1
47.5°	360.2	333.3	288.5	235.7	171.1	124.8	87.4	61.2	47.6	38.9	37.7
50°	487.1	469.5	401.0	320.0	222.7	162.5	118.9	78.5	52.8	40.2	38.3
52.5°	657.0	623.7	545.8	446.7	323.1	241.3	173.9	116.5	64.9	41.4	38.9
55°	926.1	874.2	784.6	612.9	463.7	365.7	272.1	191.2	98.8	44.2	39.2
57.5°	1213.7	1166.7	1059.8	847.0	628.3	465.8	358.3	270.0	138.7	50.4	42.6
60°	1406.1	1324.3	1202.2	996.5	759.6	547.7	401.0	283.3	143.9	51.6	44.5
62.5°	1516.4	1431.8	1251.4	1015.0	783.1	565.9	419.5	259.5	114.9	50.0	46.3
64°	*1529.4*	*1447.8*	*1252.0*	*997.4*	*758.0*	*547.1*	*406.5*	*243.4*	*99.8*	*49.4*	*47.3*
65°	1519.2	1443.8	1236.8	976.4	724.4	522.7	391.1	227.4	88.7	48.8	47.6
67.5°	1420.0	1353.9	1137.1	885.6	644.1	451.3	320.9	174.8	69.5	47.6	47.0
70°	1150.0	1119.8	934.7	714.5	509.1	359.9	253.0	133.8	59.0	46.3	45.7
72.5°	862.8	824.5	697.5	545.2	396.6	279.9	192.1	102.9	52.2	45.1	44.5
75°	691.6	654.3	552.9	429.4	295.0	209.1	142.1	76.9	49.1	44.8	44.2
77.5°	571.8	541.8	454.7	326.8	209.7	149.8	104.4	62.7	48.2	45.1	44.5
80°	439.9	434.9	355.2	237.9	148.6	111.8	84.3	58.7	48.5	46.3	45.7
82.5°	308.6	296.2	250.8	177.0	128.5	102.2	80.9	59.6	51.0	49.1	48.8
85°	254.2	244.6	214.7	170.2	122.3	98.8	80.0	61.2	53.4	51.9	51.3
87.5°	251.4	240.9	212.5	162.8	116.1	94.2	76.3	59.6	53.1	52.2	52.8
90°	228.3	220.6	194.3	150.1	115.2	95.8	79.7	65.8	59.0	55.9	55.3
92.5°	199.9	195.2	176.7	145.8	119.5	101.3	86.8	72.9	66.7	64.9	63.9
95°	174.5	172.7	157.5	132.5	110.3	95.5	82.2	70.1	64.9	62.4	62.1
97.5°	143.0	140.9	129.1	112.7	96.4	84.0	74.1	64.9	61.2	60.9	60.5
100°	130.7	129.1	120.8	110.3	97.3	88.0	79.4	71.7	68.6	68.6	68.9
102.5°	120.8	119.9	112.4	101.6	91.4	82.8	75.7	68.6	64.9	64.9	62.7
105°	112.7	111.2	104.4	95.8	85.3	77.2	70.4	65.2	61.2	59.9	59.9
107.5°	105.6	103.8	98.2	89.9	82.2	74.4	68.3	63.3	60.5	59.6	59.6

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

Scaled Data Report

REPORT NUMBER: P1046207
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	106.0	104.4	97.9	89.0	81.9	76.0	71.0	66.4	63.9	62.1	62.1
112.5°	130.4	123.9	112.4	99.2	91.1	83.4	75.7	69.2	66.1	65.5	64.9
115°	147.7	141.2	127.0	109.7	95.1	84.3	76.6	71.7	68.9	70.7	71.7
117.5°	148.3	136.5	109.4	101.0	90.5	81.5	76.3	73.2	71.4	73.2	73.2
120°	151.1	127.3	112.7	109.4	97.0	84.3	78.5	77.8	76.0	72.3	72.3
122.5°	224.6	202.9	179.8	150.4	124.8	112.7	102.2	84.0	75.4	71.4	71.0
125°	309.5	287.0	250.8	211.6	174.5	135.9	101.0	86.2	77.2	72.3	71.4
127.5°	329.0	311.4	263.8	216.8	164.3	126.6	101.3	88.7	79.7	74.4	73.5
130°	265.3	251.4	219.3	181.0	144.6	117.1	98.8	86.2	77.5	72.3	71.0
132.5°	236.0	223.0	191.5	156.6	128.2	106.9	90.5	78.2	69.5	65.8	65.8
135°	197.4	188.4	160.3	139.6	119.2	101.3	85.3	73.8	66.7	64.6	64.6
137.5°	169.3	162.2	142.1	125.7	110.0	94.5	80.6	71.4	66.4	64.3	63.9
140°	144.9	140.2	128.5	112.4	97.3	82.2	71.4	66.1	63.9	63.0	62.7
142.5°	126.0	122.6	112.1	95.5	80.6	71.4	67.3	65.8	63.6	61.5	61.2
145°	110.3	107.5	95.5	85.9	78.8	75.1	72.0	67.3	62.1	59.3	59.0
147.5°	123.9	119.5	109.0	97.9	86.5	77.8	71.0	64.9	59.9	58.1	58.1
150°	106.6	103.5	97.0	88.3	78.8	70.7	64.9	60.9	59.0	58.7	58.7
152.5°	82.8	81.2	79.4	75.1	68.9	63.6	59.9	58.1	58.7	59.9	60.2
155°	77.8	77.2	75.4	71.4	67.3	62.4	59.3	58.4	59.3	60.5	60.9
157.5°	74.1	73.8	72.3	68.6	64.9	61.8	59.6	59.0	59.9	60.9	60.9
160°	71.0	70.7	68.6	65.8	63.0	60.9	59.3	59.3	60.2	60.9	60.9
162.5°	69.2	68.9	67.3	65.2	63.3	62.1	61.8	61.8	62.1	62.4	62.4
165°	69.2	68.9	67.3	65.5	64.3	64.3	64.9	65.2	64.3	63.6	63.9
167.5°	72.0	71.4	69.5	68.0	67.6	68.0	68.9	68.9	68.3	67.3	67.0
170°	72.9	72.6	72.0	71.4	71.4	71.4	71.7	72.0	72.0	72.3	72.3
172.5°	74.8	74.8	74.4	74.4	74.8	74.4	74.4	75.1	75.7	76.0	76.3
175°	77.2	76.9	77.2	77.2	77.5	77.2	76.9	77.5	78.5	79.1	79.1
177.5°	79.1	79.1	78.8	78.5	78.5	78.5	78.5	78.8	78.8	78.8	78.5
180°	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

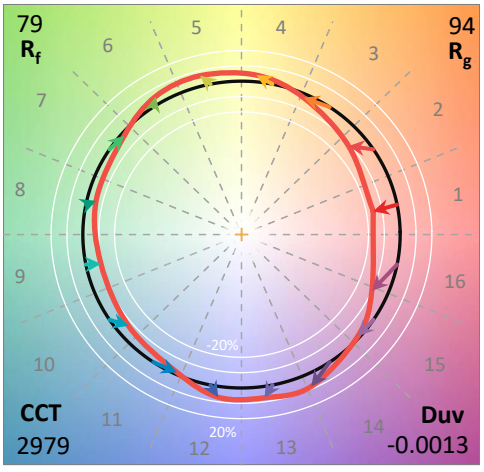
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

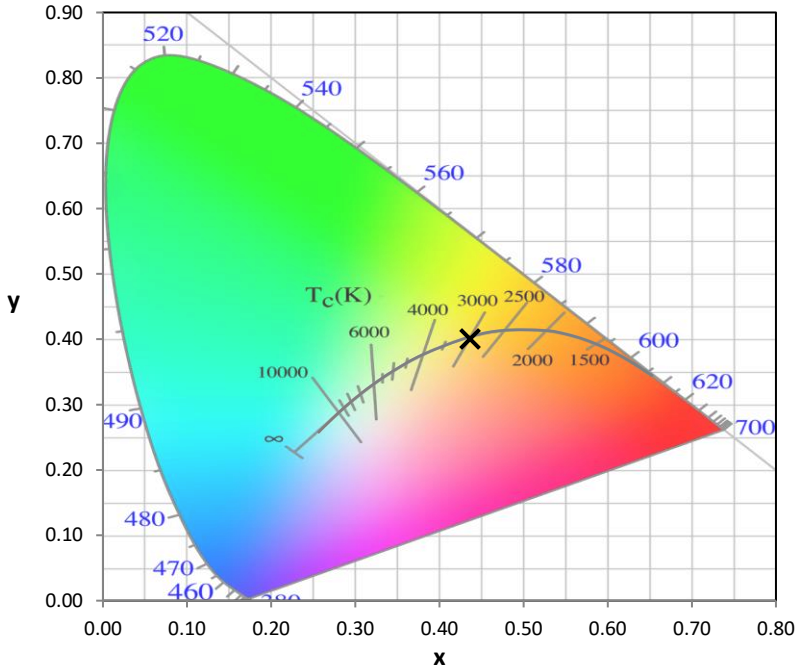
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

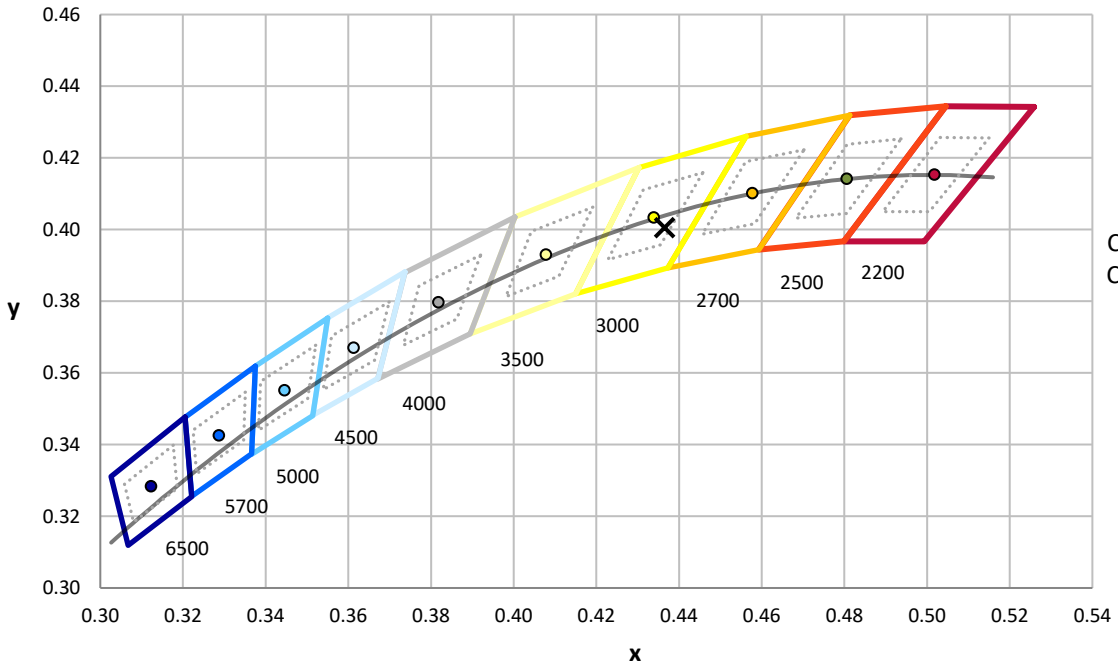
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

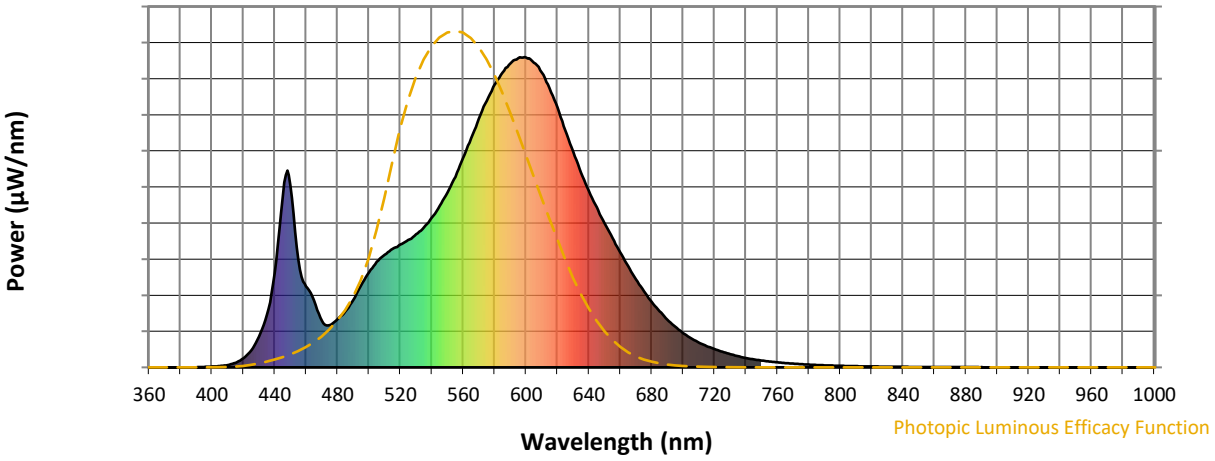


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

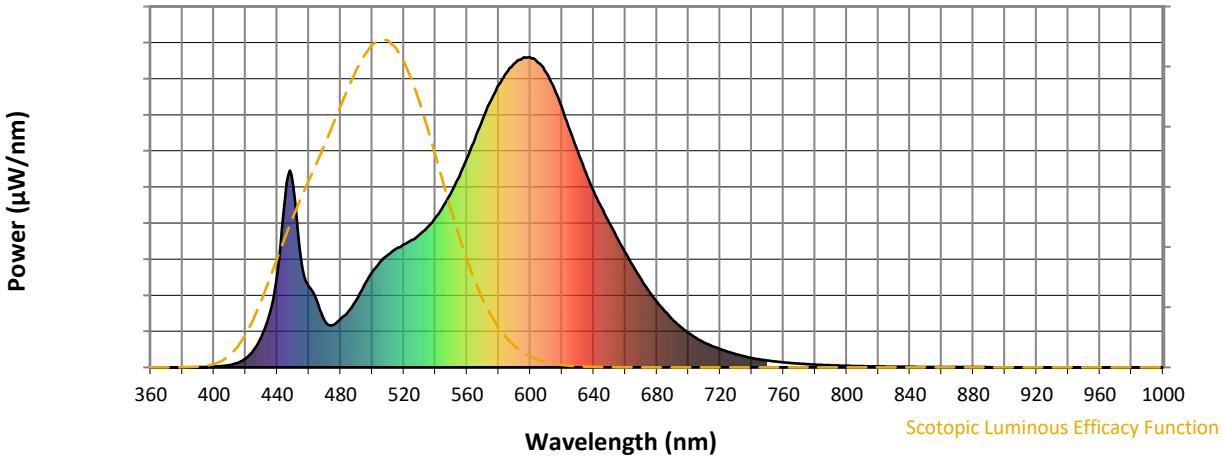


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

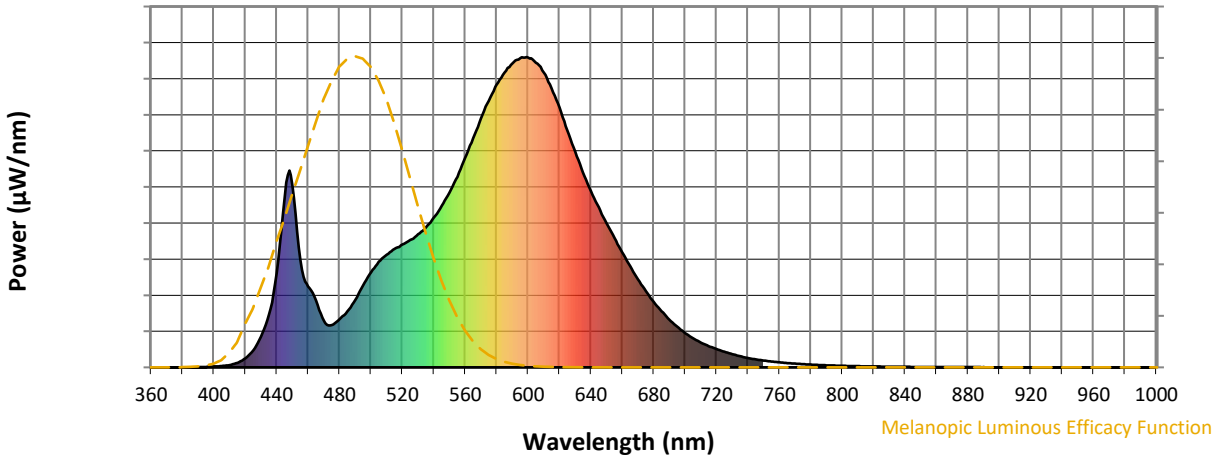


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

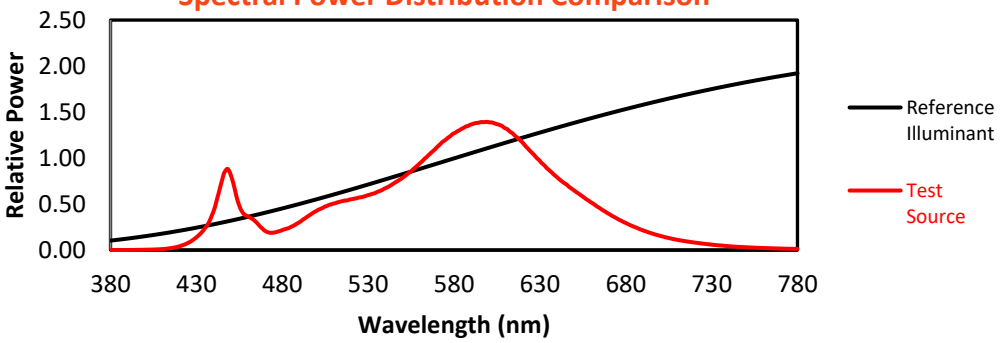
REPORT NUMBER: SP1-2501-332-9

TM-30-18

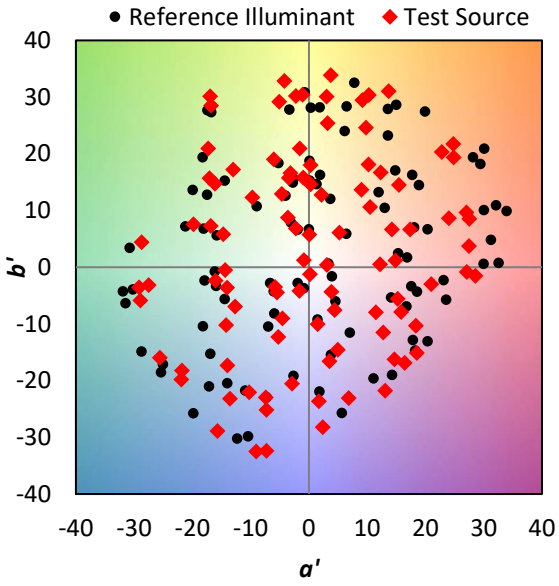
Summary

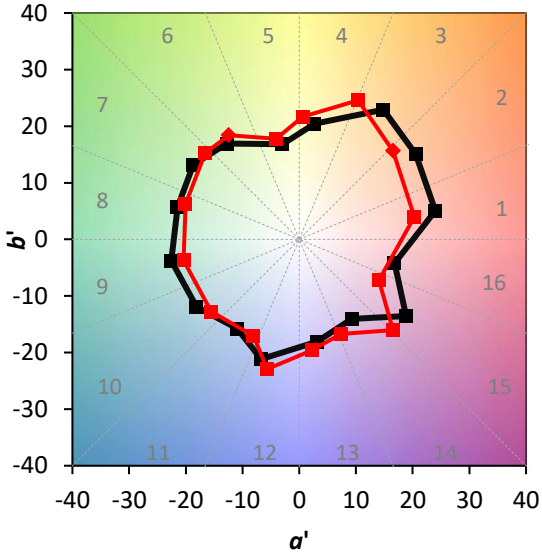
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

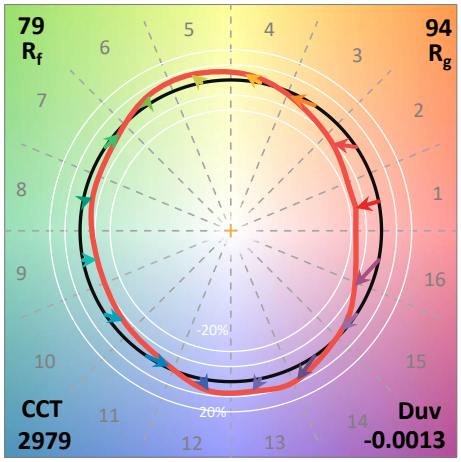
Spectral Power Distribution Comparison

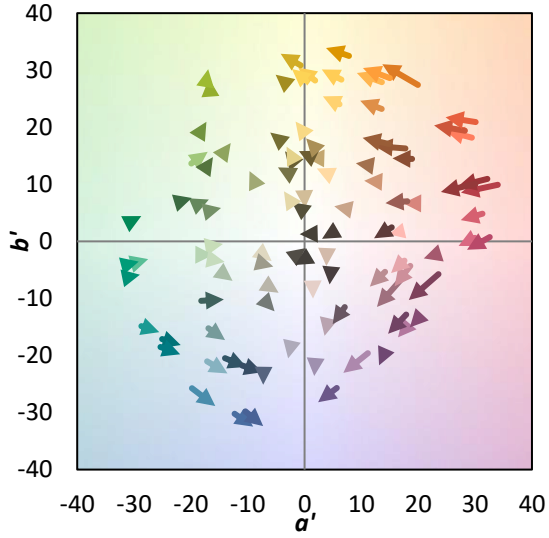


Color Vector Graphics







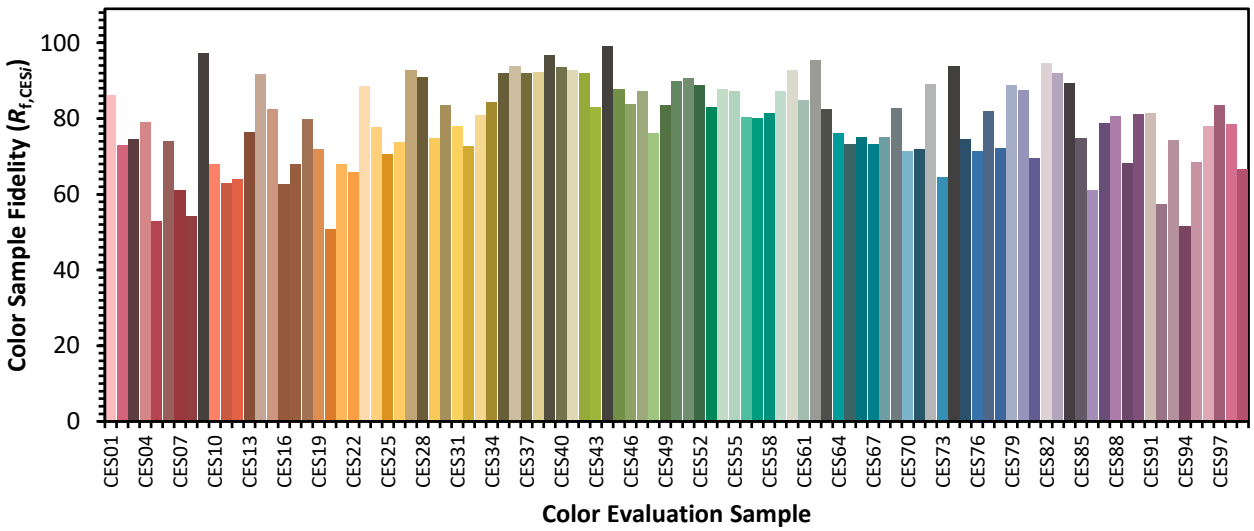


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

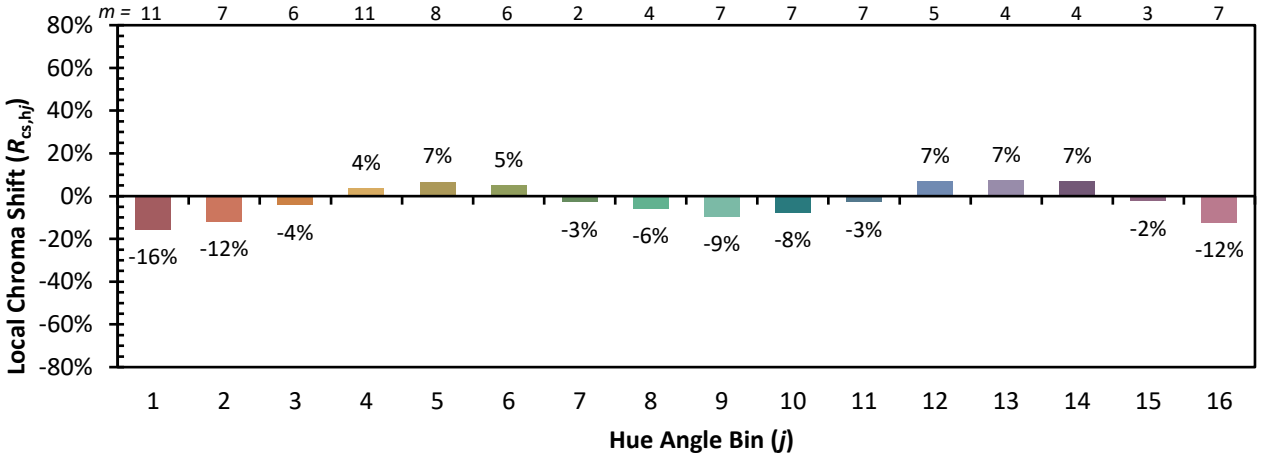
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

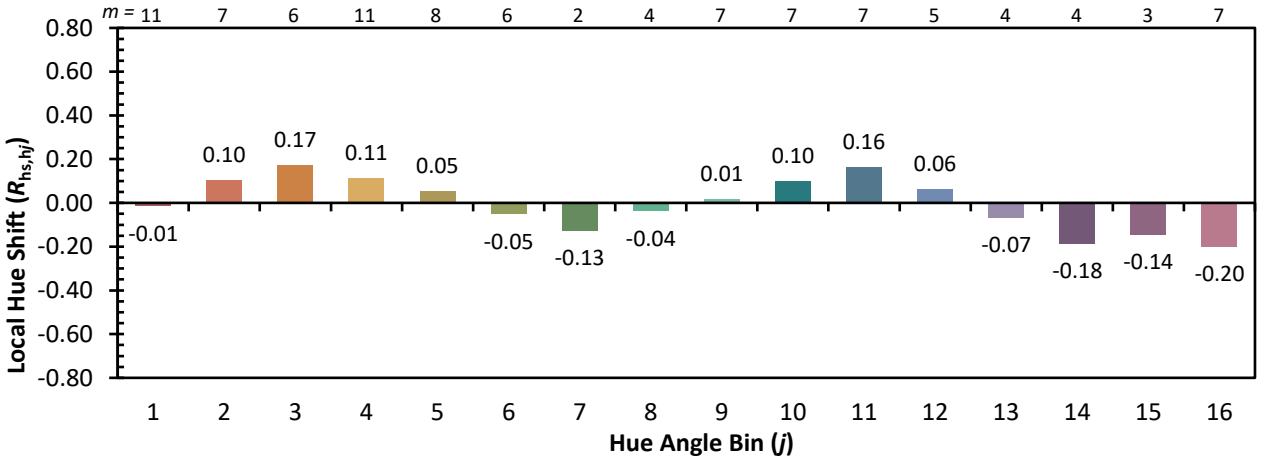


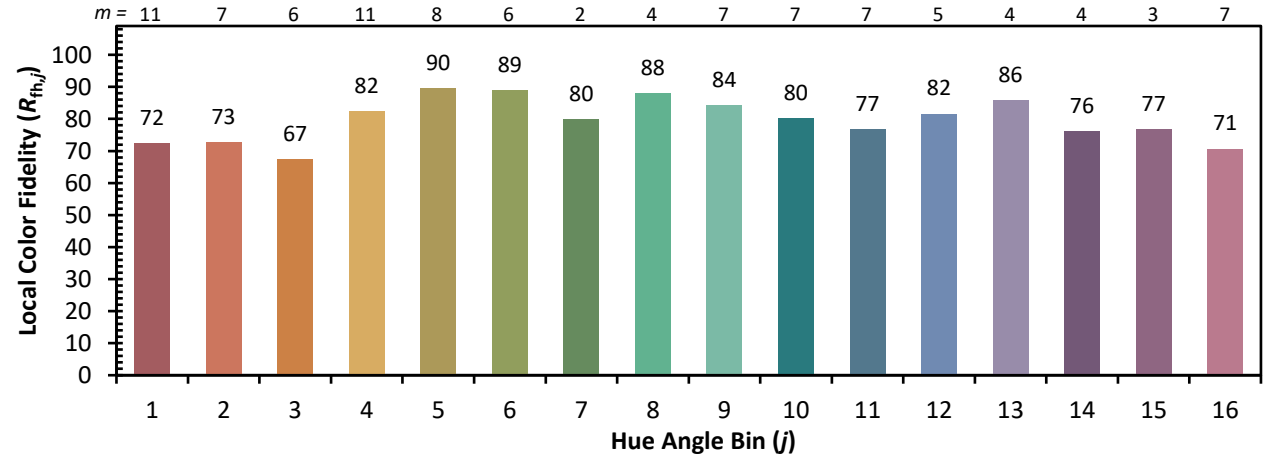
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Color Rendition by Hue-Angle Bin



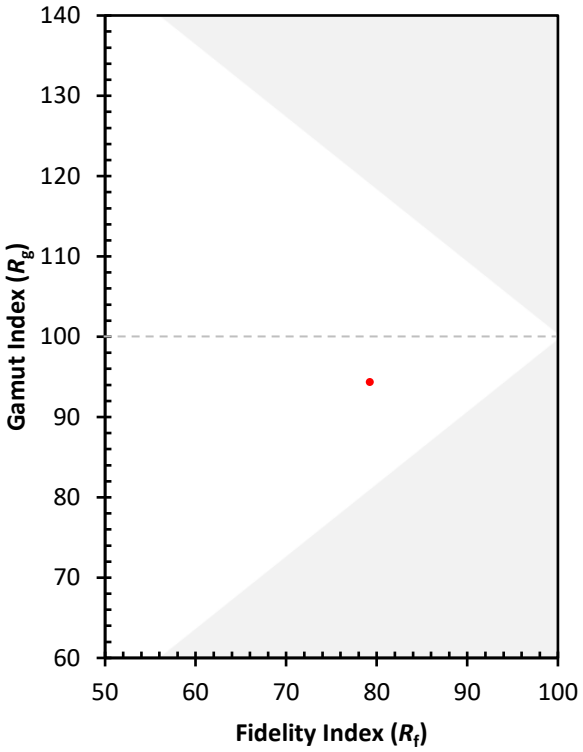


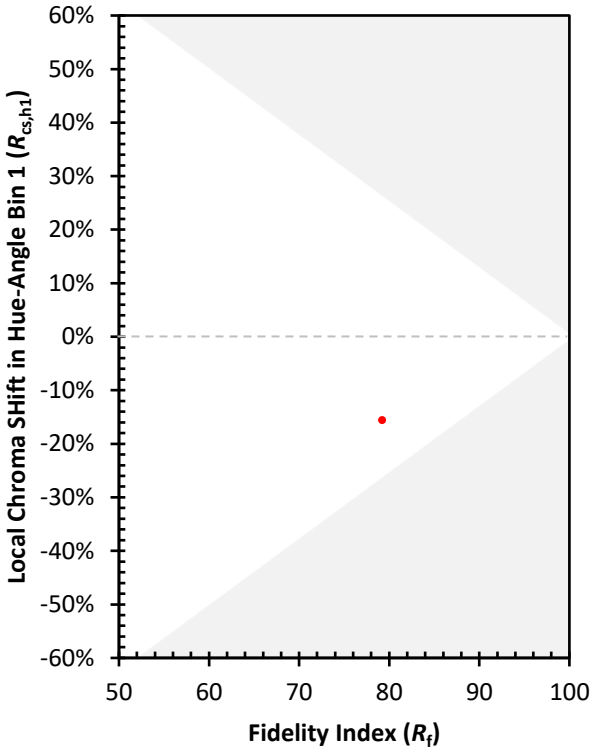


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Measure Comparisons





(END OF REPORT)