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: P1046208

Luminaire Tested: **FFX-CLB-20-730-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:	P1046208
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-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:	2965.7 lumens
Efficiency:	N/A
Efficacy:	149.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

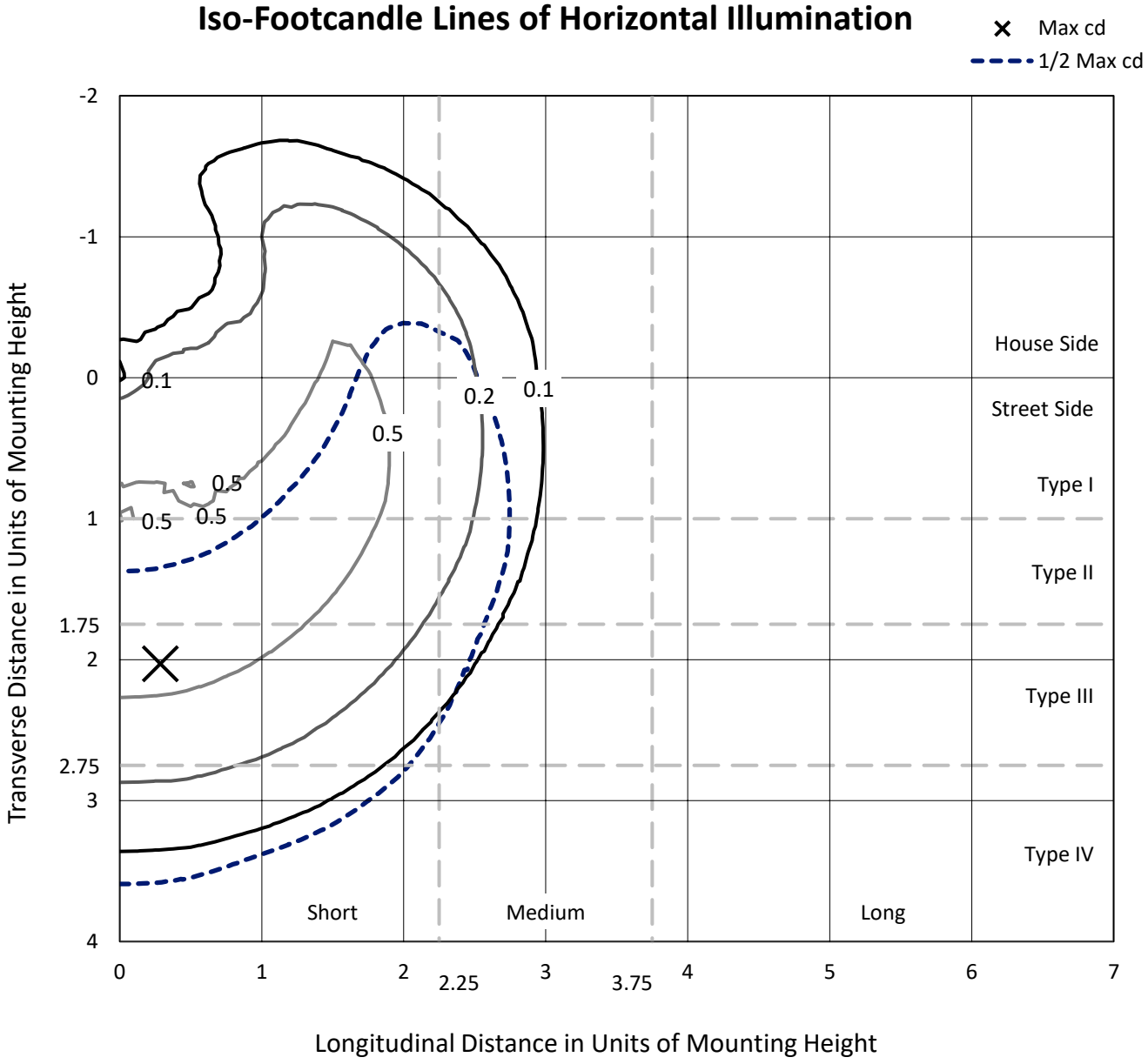


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Iso-Footcandle Lines of Horizontal Illumination



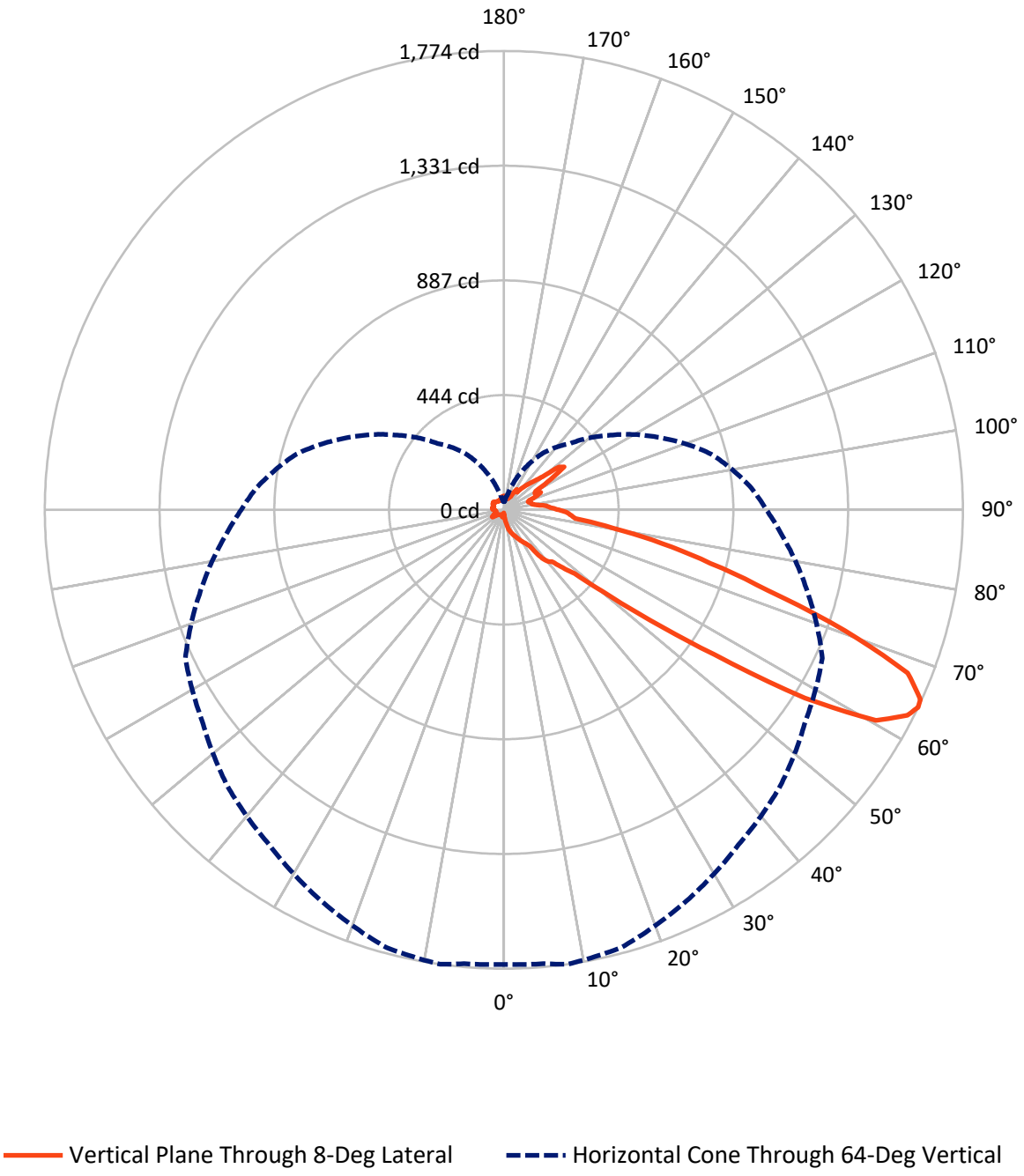
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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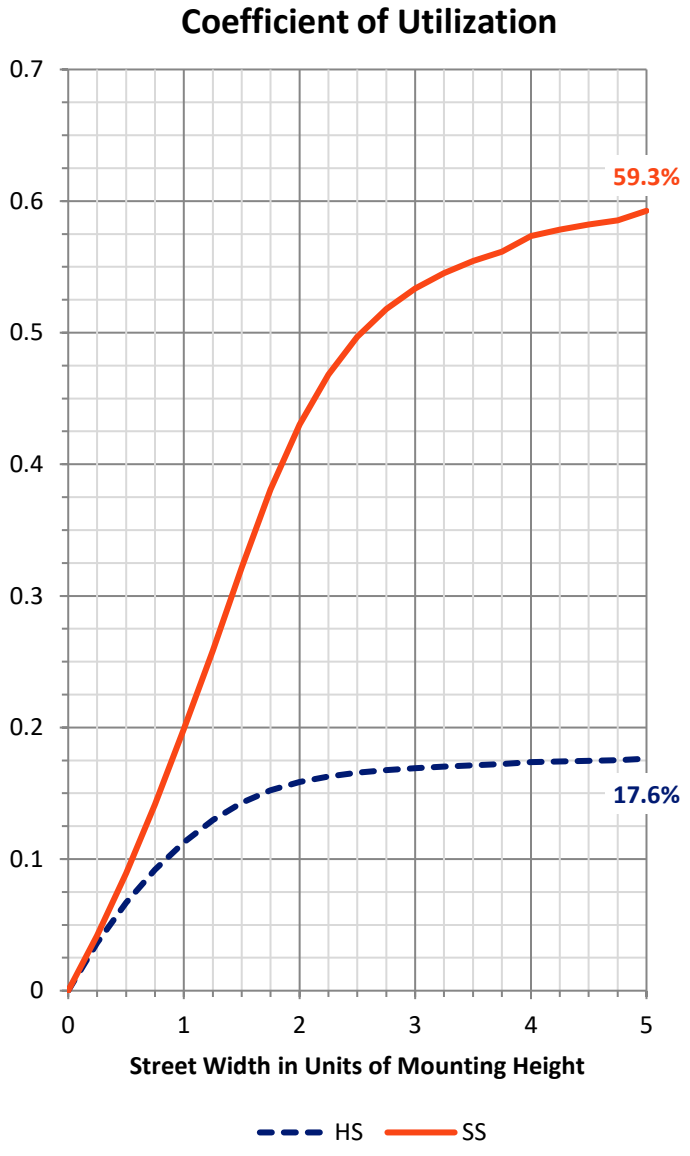
REPORT NUMBER: P1046208
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.4	202.6	745.0
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	1832.7	388.0	2220.7
	% Fixture	61.8	13.1	74.9
Total	Lumens	2375.1	590.6	2965.7
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	16.3	0.6
20°-30°	35.4	1.2
30°-40°	70.8	2.4
40°-50°	153.4	5.2
50°-60°	531.6	17.9
60°-70°	894.2	30.2
70°-80°	486.2	16.4
80°-90°	184.1	6.2
90°-100°	116.2	3.9
100°-110°	78.4	2.6
110°-120°	84.8	2.9
120°-130°	139.5	4.7
130°-140°	85.9	2.9
140°-150°	44.9	1.5
150°-160°	23.4	0.8
160°-170°	12.7	0.4
170°-180°	4.8	0.2
0°-90°	2375.1	80.1
0°-180°	2965.7	100.0



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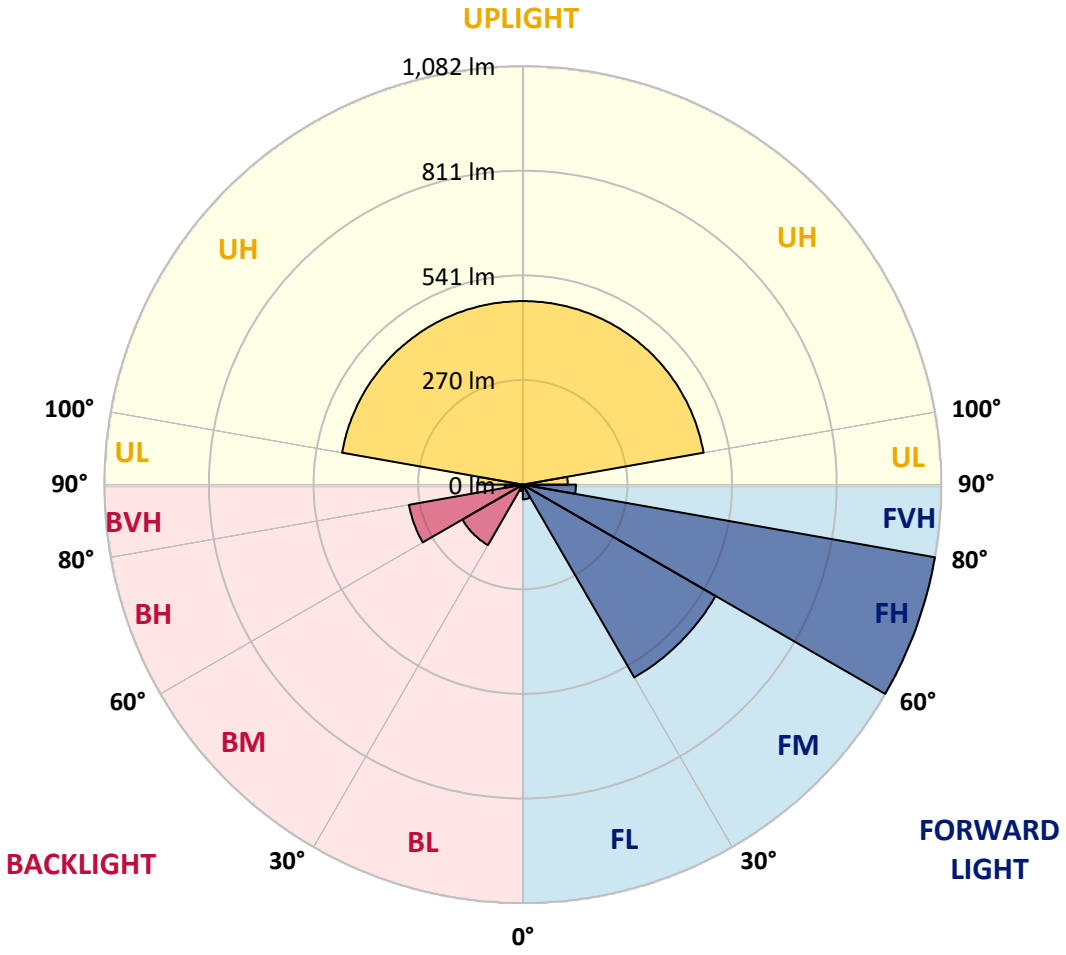
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	38.1	1.3			
FM	(30°-60°)	575.5	19.4			
FH	(60°-80°)	1081.8	36.5			G1/1800
FVH	(80°-90°)	137.3	4.6			G2/225
BL	(0°-30°)	16.6	0.6	B0/110		
BM	(30°-60°)	180.3	6.1	B0/220		
BH	(60°-80°)	298.7	10.1	B1/500		G1/500
BVH	(80°-90°)	46.8	1.6			G1/100
UL	(90°-100°)	116.2	3.9		U3/500	
UH	(100°-180°)	474.4	16.0		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19.1	19.1	*19.1*	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	20.7	20.7	*20.7*	21.3	21.7	21.9	21.3	20.9	20.7	20.5	19.9
5°	29.7	29.9	*29.9*	30.5	30.1	30.5	29.7	29.1	28.1	26.9	25.8
7.5°	42.0	42.0	*41.8*	42.0	41.8	41.0	41.0	41.6	40.0	37.5	35.3
10°	57.0	57.4	*57.2*	56.4	55.1	54.1	54.1	54.9	52.5	48.2	44.9
12.5°	72.2	73.0	*72.2*	72.4	70.3	69.5	67.9	67.5	64.2	60.1	54.3
15°	83.4	84.1	*84.3*	84.9	84.7	82.0	79.1	76.1	73.4	69.7	63.8
17.5°	92.5	92.7	*93.1*	92.9	91.6	89.0	85.7	82.4	78.1	74.2	68.7
20°	101.3	102.1	*101.9*	101.7	101.1	99.0	95.1	90.4	86.7	81.0	75.2
22.5°	110.3	109.7	*110.1*	109.9	109.9	107.8	103.7	98.2	93.3	87.5	82.4
25°	120.8	120.5	*120.8*	120.1	119.3	118.3	113.2	106.8	101.3	95.3	88.2
27.5°	131.8	132.0	*132.2*	131.2	130.2	128.5	121.2	114.8	108.9	101.5	91.4
30°	144.1	143.5	*143.7*	142.3	141.7	136.5	129.4	121.8	115.2	105.4	95.5
32.5°	155.4	154.4	*154.2*	152.9	151.9	144.5	137.2	129.8	122.0	111.9	103.3
35°	171.2	173.2	*172.4*	172.4	175.1	163.8	155.2	148.0	139.6	129.2	120.1
37.5°	235.6	235.2	*232.7*	229.4	220.2	212.2	208.3	197.0	183.5	172.0	157.7
40°	266.7	265.5	*262.8*	256.3	249.7	240.3	234.3	227.4	220.4	200.1	177.1
42.5°	274.1	273.1	*273.7*	281.5	290.1	283.1	260.0	234.7	222.4	208.7	197.2
45°	314.5	318.0	*319.0*	318.8	312.6	305.3	295.2	280.1	258.7	239.3	215.3
47.5°	365.7	365.3	*367.8*	364.5	369.6	356.7	343.8	328.0	305.9	279.4	250.7
50°	499.8	495.5	*496.1*	497.4	489.6	480.1	468.5	459.6	416.4	378.9	335.2
52.5°	712.8	713.5	*708.9*	708.7	685.6	667.3	646.8	647.6	584.1	533.7	470.5
55°	1001.9	1002.3	*986.1*	999.5	973.4	971.0	925.6	867.2	781.7	713.0	649.5
57.5°	1361.9	1374.2	*1372.8*	1349.0	1309.2	1287.7	1214.5	1153.2	1032.3	924.4	838.1
60°	1668.6	1662.9	*1653.5*	1635.4	1516.3	1466.3	1412.4	1360.1	1259.8	1110.6	981.4
62.5°	1756.2	1751.9	*1750.2*	1741.2	1647.1	1564.7	1496.8	1411.3	1344.3	1197.9	1066.3
64°	*1757.6*	*1761.5*	*1774.2*	*1752.7*	*1669.0*	*1581.1*	*1510.8*	*1423.4*	*1358.2*	*1213.9*	*1076.5*
65°	1754.3	1753.5	*1769.5*	1742.2	1668.0	1580.3	1502.2	1418.5	1353.9	1209.6	1073.9
67.5°	1666.4	1662.9	*1683.4*	1648.3	1583.5	1504.4	1427.7	1337.9	1281.1	1142.6	1011.1
70°	1367.5	1367.3	*1399.2*	1369.9	1350.6	1266.8	1188.5	1106.1	1045.4	931.6	821.7
72.5°	1047.8	1046.0	*1067.3*	1045.4	1035.5	996.0	922.8	850.0	792.2	706.9	617.9
75°	835.0	835.9	*824.6*	803.0	795.1	777.4	744.8	701.4	653.0	575.5	493.5
77.5°	625.3	621.2	*626.1*	596.0	593.7	588.4	588.2	560.3	519.3	469.9	404.9
80°	416.8	419.3	*428.1*	420.1	422.3	420.5	432.0	402.4	371.3	342.2	307.5
82.5°	269.6	276.2	*278.6*	289.7	299.3	303.6	287.8	258.1	238.6	228.0	212.6
85°	258.7	261.4	*260.0*	253.4	250.1	244.8	244.6	235.2	225.1	204.6	179.6
87.5°	238.6	241.7	*240.5*	234.7	227.4	226.7	225.3	218.8	214.0	197.8	175.7
90°	203.6	203.8	*204.8*	203.8	202.4	201.3	193.1	189.2	186.4	172.4	157.5
92.5°	176.5	179.0	*178.4*	176.5	171.8	174.7	165.9	158.5	156.8	147.2	135.7
95°	162.2	163.8	*164.2*	160.9	156.4	155.4	148.6	142.9	140.2	133.9	119.9
97.5°	134.5	133.5	*132.6*	131.8	128.8	125.5	121.2	114.0	111.7	104.8	97.0
100°	114.8	115.2	*114.8*	114.2	111.5	109.9	106.8	101.1	98.6	94.1	88.8
102.5°	109.5	109.7	*109.7*	109.9	105.4	101.7	98.4	94.3	92.1	88.2	83.0
105°	104.6	104.6	*105.0*	105.2	100.7	95.3	90.6	88.4	87.3	82.8	77.5
107.5°	98.4	98.2	*98.8*	96.2	91.6	89.4	84.5	81.8	81.4	77.9	72.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	107.4	105.2	*104.8*	98.2	92.1	86.9	84.5	82.0	80.6	75.9	72.4
112.5°	140.6	137.6	*136.7*	130.6	109.1	107.2	105.0	104.1	103.3	97.0	91.0
115°	155.0	155.0	*157.5*	155.0	140.0	123.0	120.5	116.9	118.3	110.5	101.9
117.5°	124.0	132.6	*135.1*	127.7	128.3	117.5	100.7	94.9	92.1	89.8	93.7
120°	139.2	144.9	*142.5*	129.0	122.8	116.4	117.3	115.2	105.0	90.8	92.3
122.5°	207.5	212.8	*214.7*	215.7	218.5	214.2	204.6	191.1	180.8	163.8	154.2
125°	290.5	286.6	*286.2*	288.0	290.3	284.8	280.7	278.0	271.6	249.3	217.9
127.5°	266.7	264.9	*268.0*	267.5	273.1	263.7	261.8	263.2	260.8	248.3	230.0
130°	191.3	194.6	*196.8*	204.2	215.1	206.7	198.9	187.2	186.4	192.5	182.9
132.5°	160.5	162.0	*166.1*	175.7	183.9	180.4	168.9	157.7	156.8	162.0	161.1
135°	141.9	142.9	*143.5*	143.9	142.5	145.8	143.3	139.2	136.5	136.7	134.3
137.5°	126.7	127.1	*126.7*	123.4	119.5	118.9	125.1	125.3	122.8	118.5	115.2
140°	109.9	109.9	*108.2*	106.0	105.4	105.6	109.1	109.7	106.8	103.3	98.4
142.5°	85.9	84.9	*85.1*	88.8	95.3	93.9	89.4	83.6	82.8	86.9	85.3
145°	92.9	92.7	*92.1*	92.3	90.6	88.0	86.3	84.5	81.2	78.5	75.9
147.5°	93.7	92.9	*93.3*	92.5	91.6	90.4	89.8	90.6	89.8	88.0	84.5
150°	74.0	74.4	*74.8*	73.8	74.6	75.0	74.6	74.0	75.0	72.8	71.3
152.5°	57.8	57.6	*57.4*	57.8	57.6	58.4	58.6	58.4	58.0	57.8	55.6
155°	54.3	54.9	*54.5*	53.3	54.1	54.7	55.6	56.2	55.6	54.5	52.5
157.5°	50.0	50.0	*50.0*	50.0	50.2	50.4	51.5	51.9	51.9	51.3	49.8
160°	46.5	46.7	*46.7*	46.7	47.2	47.6	48.2	48.6	49.0	48.6	47.8
162.5°	44.5	44.3	*44.3*	44.5	44.5	45.1	45.7	46.5	46.7	46.3	46.3
165°	43.3	43.3	*43.3*	43.5	43.9	44.3	45.1	45.3	45.5	45.9	45.9
167.5°	44.7	44.7	*44.7*	44.9	45.3	45.9	46.3	46.7	47.6	47.8	47.8
170°	46.9	46.9	*46.9*	47.2	47.4	47.6	47.8	48.2	48.4	48.8	48.6
172.5°	49.2	49.0	*49.2*	49.2	49.2	49.2	49.2	49.4	49.6	49.6	49.6
175°	51.7	51.7	*51.9*	51.7	51.3	51.3	51.3	51.5	51.5	51.5	51.3
177.5°	54.1	54.1	*53.9*	54.1	53.9	53.7	53.5	53.3	52.9	52.9	52.5
180°	52.7	52.7	*52.7*	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	19.5	18.7	17.6	16.4	15.2	14.4	13.5	12.5	11.9	11.7	11.7
5°	24.6	24.0	23.0	21.3	20.3	18.5	16.8	15.8	14.8	13.7	12.9
7.5°	34.4	34.2	34.9	36.1	34.4	30.1	25.6	23.2	23.4	24.6	25.2
10°	43.3	42.0	42.2	45.1	42.4	34.2	28.1	25.8	27.1	29.5	29.9
12.5°	52.5	50.6	49.2	48.6	42.6	33.4	27.9	25.2	25.8	27.9	27.9
15°	60.9	58.6	55.4	51.0	44.1	35.9	29.1	25.2	25.2	25.0	24.6
17.5°	65.6	63.1	57.2	50.4	42.8	35.5	28.5	24.6	22.6	20.9	20.7
20°	73.0	71.8	64.2	54.5	44.1	34.6	27.5	23.6	21.3	20.1	19.7
22.5°	80.2	76.7	66.8	57.0	45.1	34.4	27.1	23.4	21.3	20.3	19.9
25°	84.1	79.8	69.9	59.9	46.5	34.6	27.5	23.8	21.5	20.5	20.3
27.5°	87.1	82.6	73.4	62.5	48.4	35.5	28.7	24.4	21.9	20.7	20.5
30°	91.2	86.9	77.5	65.8	50.0	37.3	30.1	25.4	22.6	21.3	21.1
32.5°	99.0	93.7	82.6	68.7	52.1	39.2	32.0	27.1	23.6	21.7	21.7
35°	115.2	109.5	94.7	76.5	54.3	40.6	33.2	28.1	24.4	22.3	22.1
37.5°	149.3	142.1	124.0	95.7	59.9	42.6	34.6	28.7	24.8	23.0	22.6
40°	165.7	152.3	132.0	107.0	69.1	45.9	36.9	30.1	25.4	23.2	23.0
42.5°	185.5	174.5	146.6	109.9	76.7	53.5	40.8	32.2	26.7	23.6	23.4
45°	205.0	194.2	169.3	133.7	92.3	65.4	47.2	35.7	28.5	24.6	24.0
47.5°	239.0	221.2	191.5	156.4	113.6	82.8	58.0	40.6	31.6	25.8	25.0
50°	323.3	311.6	266.1	212.4	147.8	107.8	78.9	52.1	35.1	26.7	25.4
52.5°	436.1	413.9	362.3	296.5	214.4	160.1	115.4	77.3	43.1	27.5	25.8
55°	614.6	580.2	520.7	406.8	307.7	242.7	180.6	126.9	65.6	29.3	26.0
57.5°	805.5	774.3	703.4	562.2	417.0	309.2	237.8	179.2	92.1	33.4	28.3
60°	933.2	878.9	797.9	661.4	504.1	363.5	266.1	188.0	95.5	34.2	29.5
62.5°	1006.4	950.3	830.5	673.7	519.7	375.6	278.4	172.2	76.3	33.2	30.8
64°	*1015.0*	*960.9*	*830.9*	*662.0*	*503.1*	*363.1*	*269.8*	*161.6*	*66.2*	*32.8*	*31.4*
65°	1008.3	958.2	820.9	648.1	480.8	346.9	259.6	150.9	58.8	32.4	31.6
67.5°	942.5	898.6	754.7	587.8	427.5	299.5	213.0	116.0	46.1	31.6	31.2
70°	763.3	743.2	620.4	474.2	337.9	238.8	167.9	88.8	39.2	30.8	30.3
72.5°	572.6	547.2	462.9	361.9	263.2	185.7	127.5	68.3	34.6	29.9	29.5
75°	459.0	434.2	367.0	285.0	195.8	138.8	94.3	51.0	32.6	29.7	29.3
77.5°	379.5	359.6	301.8	216.9	139.2	99.4	69.3	41.6	32.0	29.9	29.5
80°	291.9	288.7	235.8	157.9	98.6	74.2	56.0	39.0	32.2	30.8	30.3
82.5°	204.8	196.6	166.5	117.5	85.3	67.9	53.7	39.6	33.8	32.6	32.4
85°	168.7	162.4	142.5	113.0	81.2	65.6	53.1	40.6	35.5	34.4	34.0
87.5°	166.9	159.9	141.1	108.0	77.1	62.5	50.6	39.6	35.3	34.6	35.1
90°	151.5	146.4	129.0	99.6	76.5	63.6	52.9	43.7	39.2	37.1	36.7
92.5°	132.6	129.6	117.3	96.8	79.3	67.2	57.6	48.4	44.3	43.1	42.4
95°	115.8	114.6	104.6	88.0	73.2	63.4	54.5	46.5	43.1	41.4	41.2
97.5°	94.9	93.5	85.7	74.8	64.0	55.8	49.2	43.1	40.6	40.4	40.2
100°	86.7	85.7	80.2	73.2	64.6	58.4	52.7	47.6	45.5	45.5	45.7
102.5°	80.2	79.5	74.6	67.5	60.7	54.9	50.2	45.5	43.1	43.1	41.6
105°	74.8	73.8	69.3	63.6	56.6	51.3	46.7	43.3	40.6	39.8	39.8
107.5°	70.1	68.9	65.2	59.7	54.5	49.4	45.3	42.0	40.2	39.6	39.6

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

Scaled Data Report

REPORT NUMBER: P1046208
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	70.3	69.3	65.0	59.0	54.3	50.4	47.2	44.1	42.4	41.2	41.2
112.5°	86.5	82.2	74.6	65.8	60.5	55.4	50.2	45.9	43.9	43.5	43.1
115°	98.0	93.7	84.3	72.8	63.1	56.0	50.8	47.6	45.7	46.9	47.6
117.5°	98.4	90.6	72.6	67.0	60.1	54.1	50.6	48.6	47.4	48.6	48.6
120°	100.3	84.5	74.8	72.6	64.4	56.0	52.1	51.7	50.4	48.0	48.0
122.5°	149.0	134.7	119.3	99.8	82.8	74.8	67.9	55.8	50.0	47.4	47.2
125°	205.4	190.5	166.5	140.4	115.8	90.2	67.0	57.2	51.3	48.0	47.4
127.5°	218.3	206.7	175.1	143.9	109.1	84.1	67.2	58.8	52.9	49.4	48.8
130°	176.1	166.9	145.6	120.1	95.9	77.7	65.6	57.2	51.5	48.0	47.2
132.5°	156.6	148.0	127.1	103.9	85.1	70.9	60.1	51.9	46.1	43.7	43.7
135°	131.0	125.1	106.4	92.7	79.1	67.2	56.6	49.0	44.3	42.8	42.8
137.5°	112.3	107.6	94.3	83.4	73.0	62.7	53.5	47.4	44.1	42.6	42.4
140°	96.2	93.1	85.3	74.6	64.6	54.5	47.4	43.9	42.4	41.8	41.6
142.5°	83.6	81.4	74.4	63.4	53.5	47.4	44.7	43.7	42.2	40.8	40.6
145°	73.2	71.3	63.4	57.0	52.3	49.8	47.8	44.7	41.2	39.4	39.2
147.5°	82.2	79.3	72.4	65.0	57.4	51.7	47.2	43.1	39.8	38.5	38.5
150°	70.7	68.7	64.4	58.6	52.3	46.9	43.1	40.4	39.2	39.0	39.0
152.5°	54.9	53.9	52.7	49.8	45.7	42.2	39.8	38.5	39.0	39.8	40.0
155°	51.7	51.3	50.0	47.4	44.7	41.4	39.4	38.7	39.4	40.2	40.4
157.5°	49.2	49.0	48.0	45.5	43.1	41.0	39.6	39.2	39.8	40.4	40.4
160°	47.2	46.9	45.5	43.7	41.8	40.4	39.4	39.4	40.0	40.4	40.4
162.5°	45.9	45.7	44.7	43.3	42.0	41.2	41.0	41.0	41.2	41.4	41.4
165°	45.9	45.7	44.7	43.5	42.6	42.6	43.1	43.3	42.6	42.2	42.4
167.5°	47.8	47.4	46.1	45.1	44.9	45.1	45.7	45.7	45.3	44.7	44.5
170°	48.4	48.2	47.8	47.4	47.4	47.4	47.6	47.8	47.8	48.0	48.0
172.5°	49.6	49.6	49.4	49.4	49.6	49.4	49.4	49.8	50.2	50.4	50.6
175°	51.3	51.0	51.3	51.3	51.5	51.3	51.0	51.5	52.1	52.5	52.5
177.5°	52.5	52.5	52.3	52.1	52.1	52.1	52.1	52.3	52.3	52.3	52.1
180°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7

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

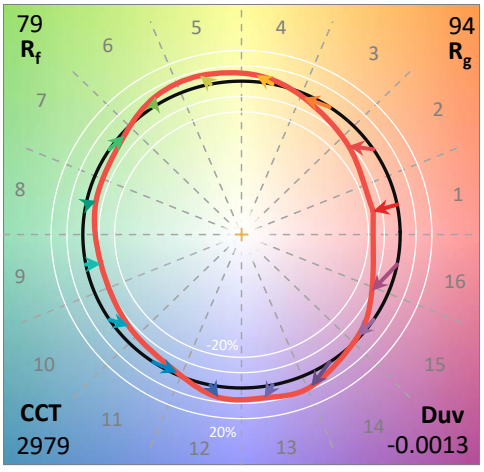
Test Information

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

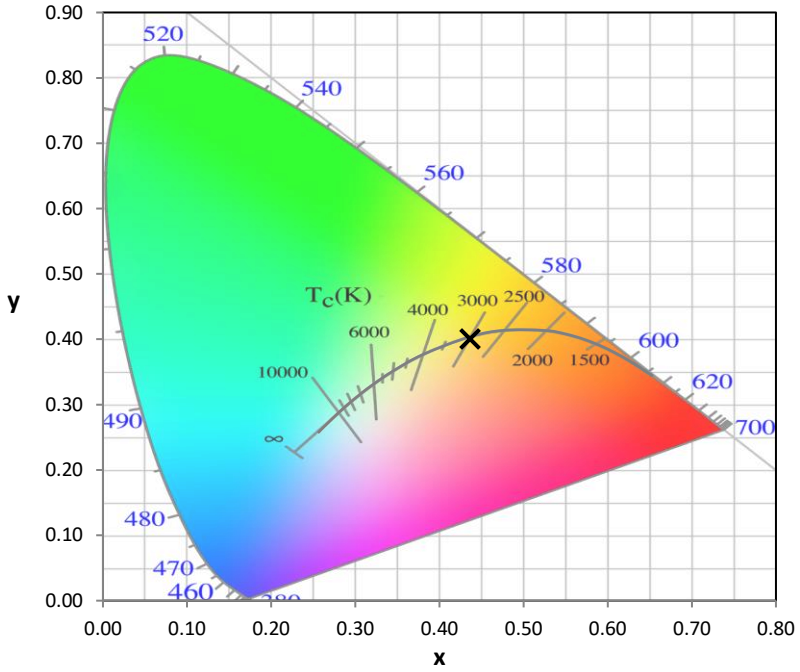
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

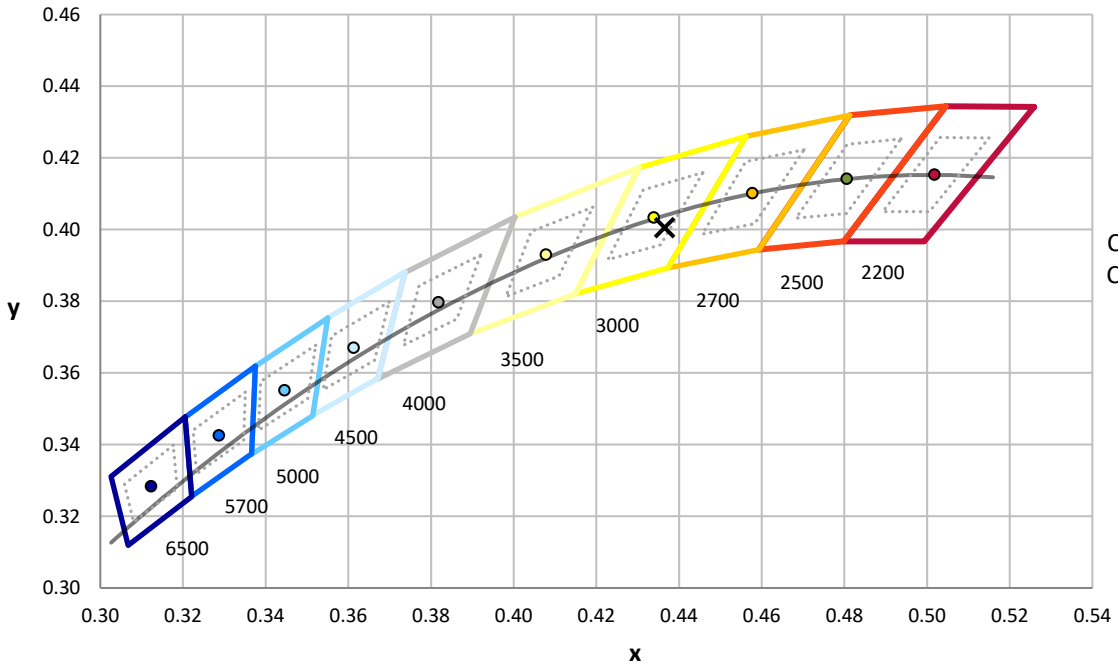
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

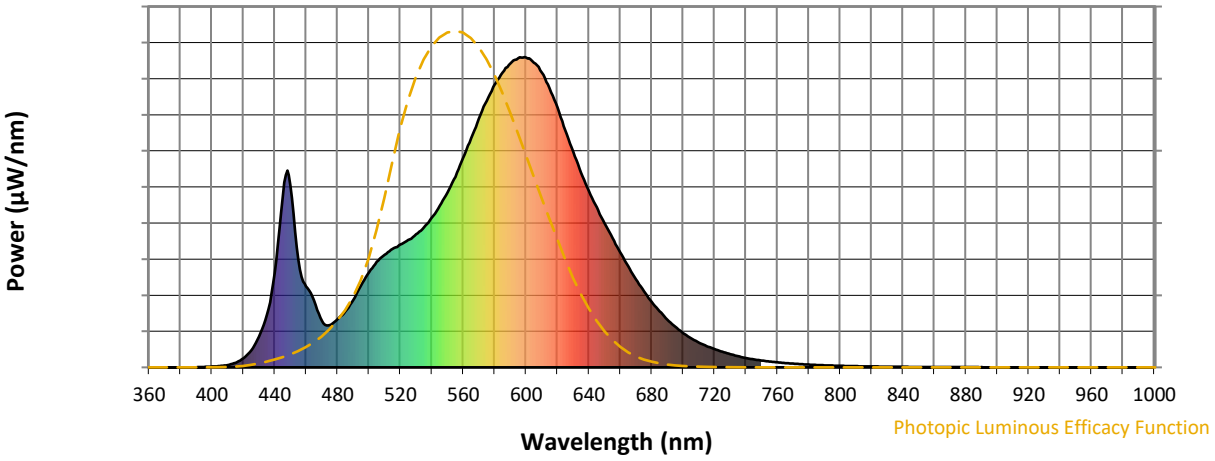


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

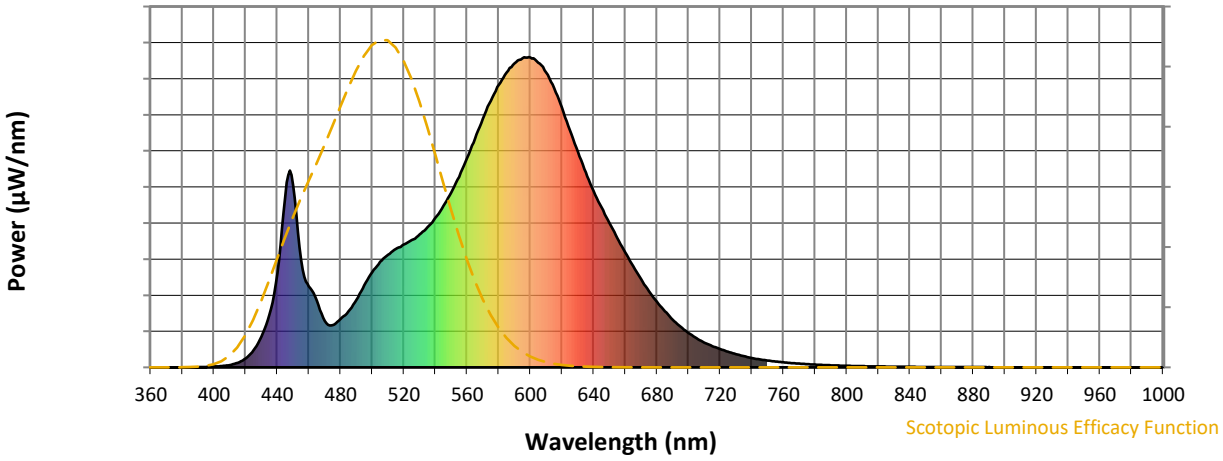


Photopic Lumens: NR

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

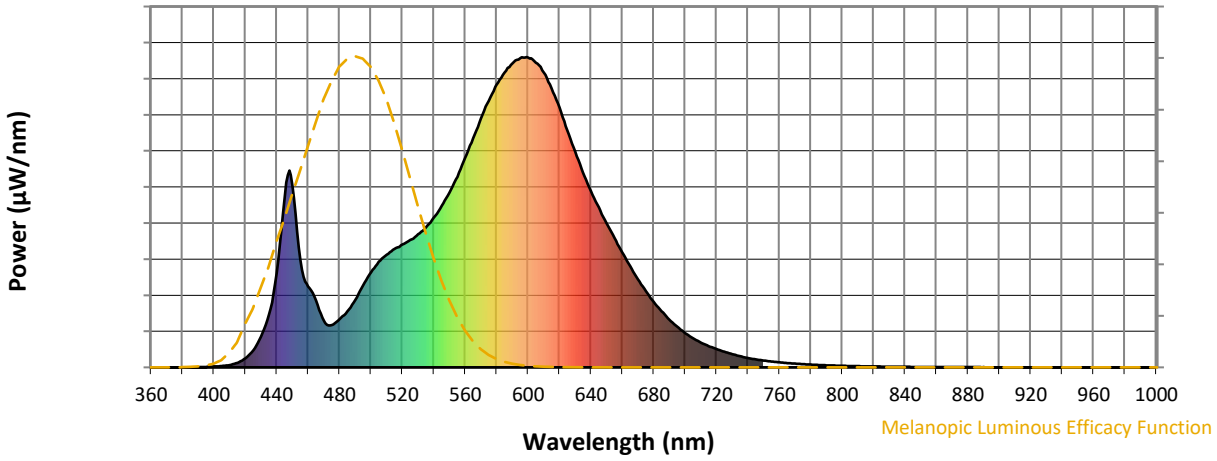


Scotopic Lumens: NR **S/P: 1.29**

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			

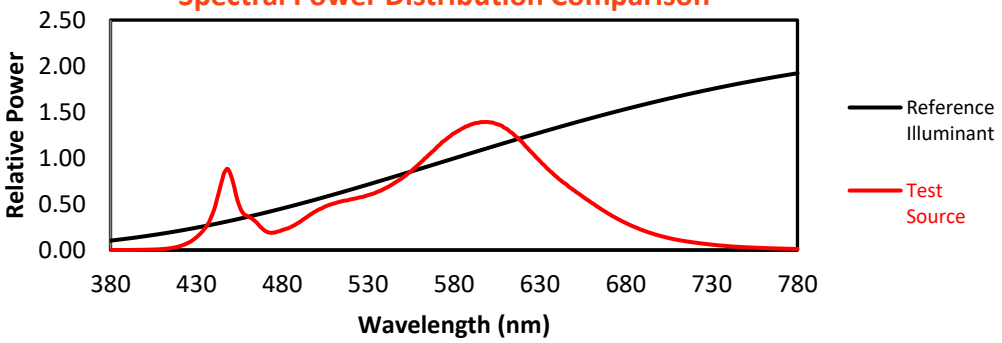
REPORT NUMBER: SP1-2501-332-9

TM-30-18

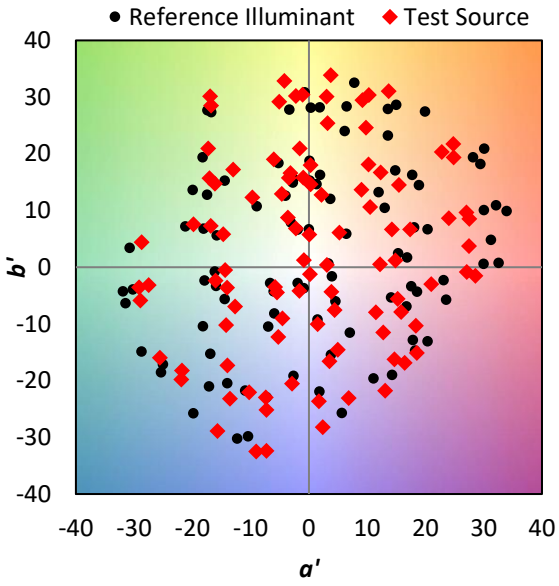
Summary

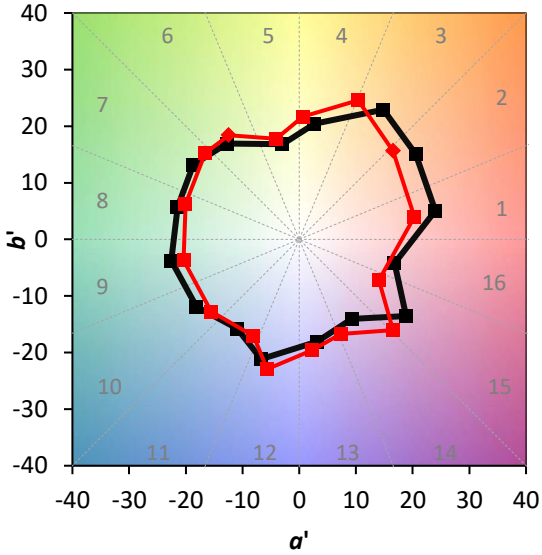
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

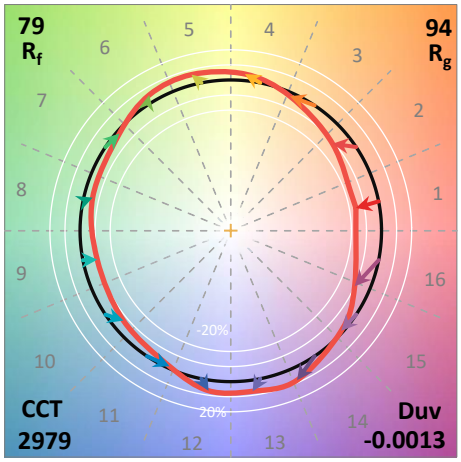
Spectral Power Distribution Comparison

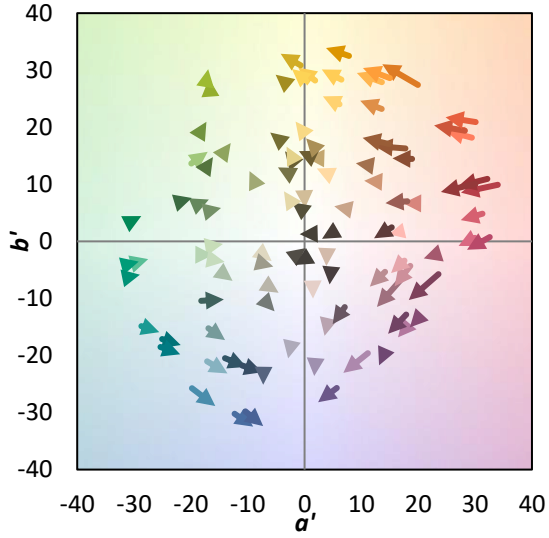


Color Vector Graphics







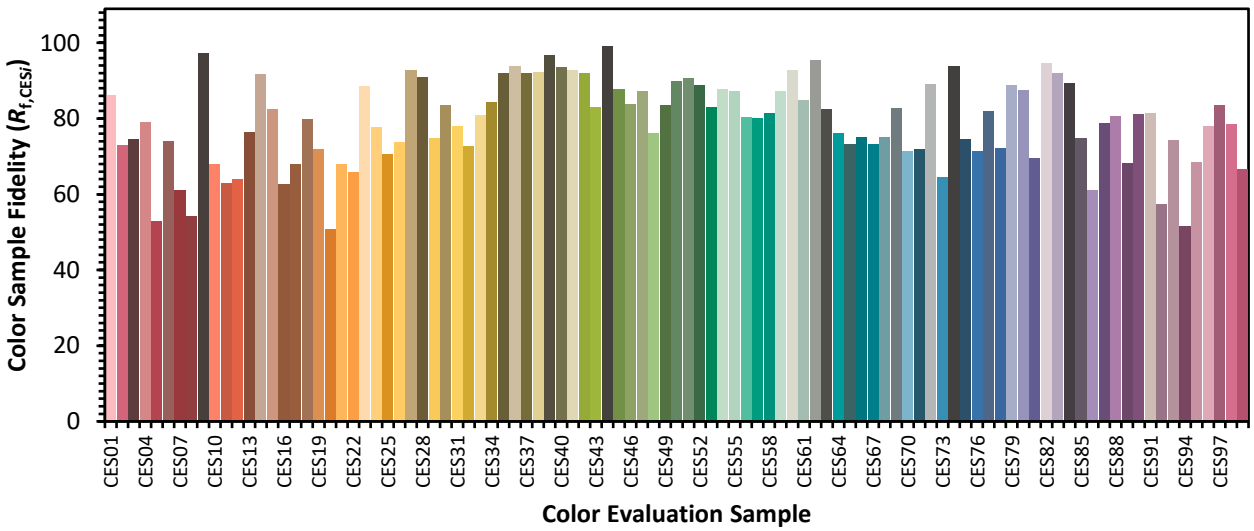


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

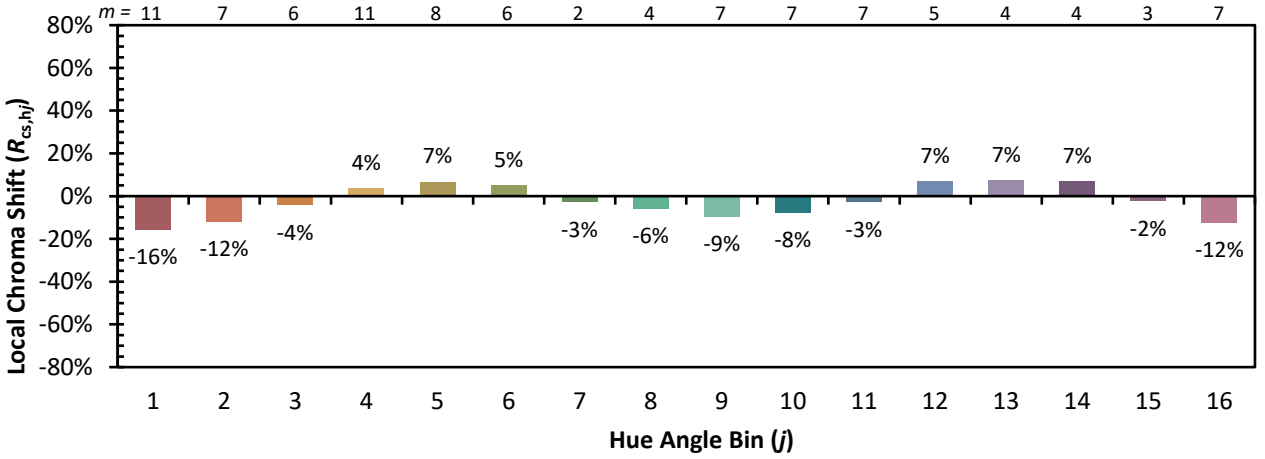
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 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	

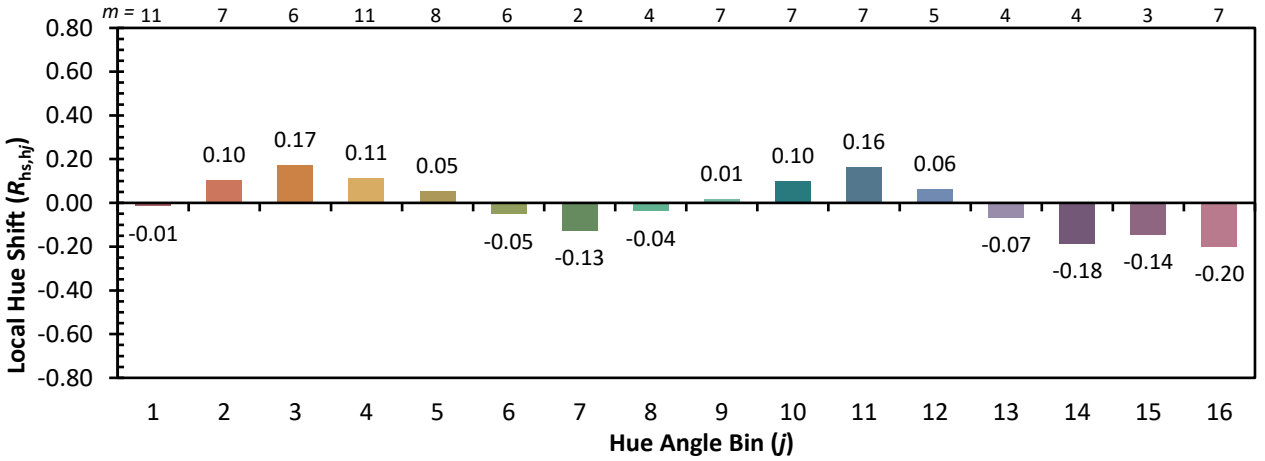


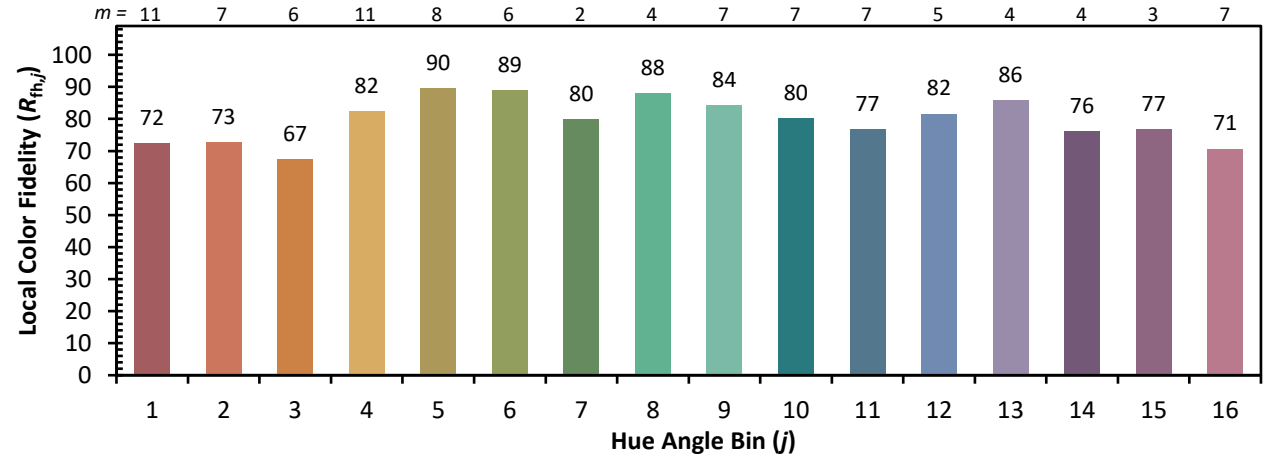
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Color Rendition by Hue-Angle Bin



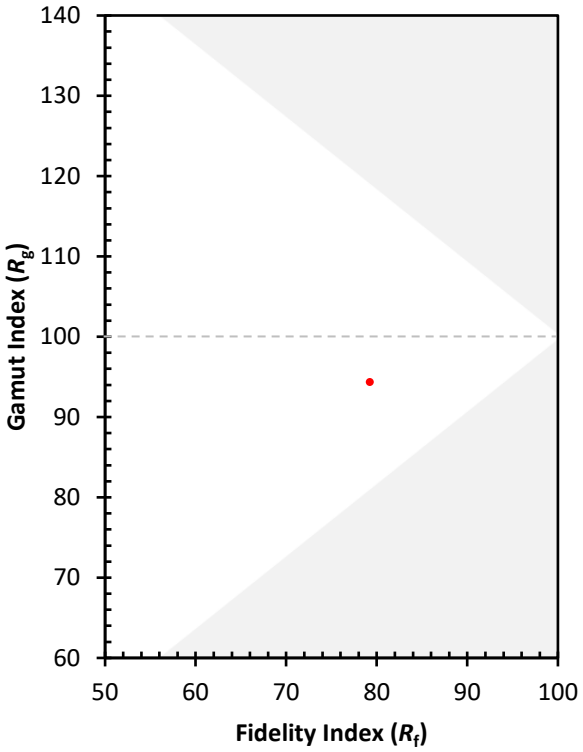


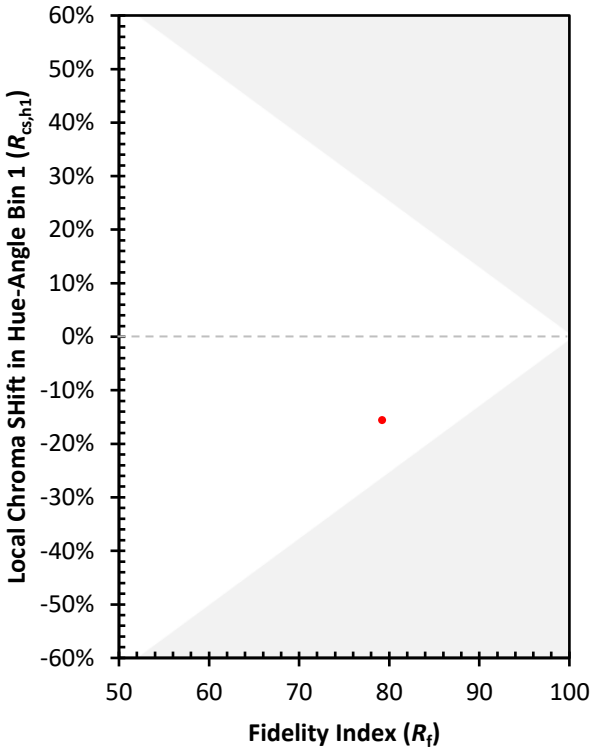


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Measure Comparisons





(END OF REPORT)