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: P1045783

Luminaire Tested: **FFX-CLB-40-722-U-FR-T5-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:	P1045783
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-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3528.9 lumens
Efficiency:	N/A
Efficacy:	89.6 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):	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

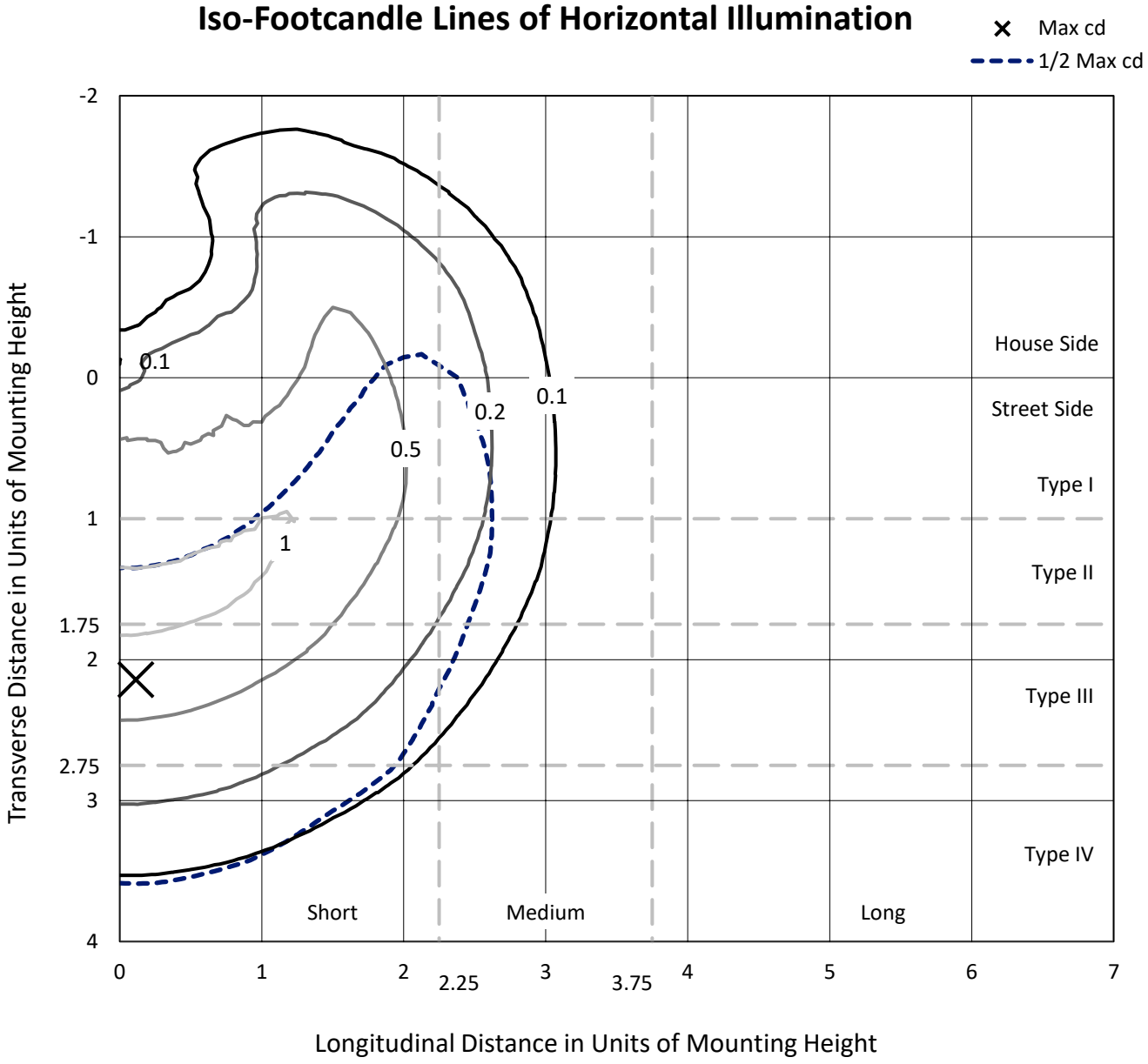


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Iso-Footcandle Lines of Horizontal Illumination



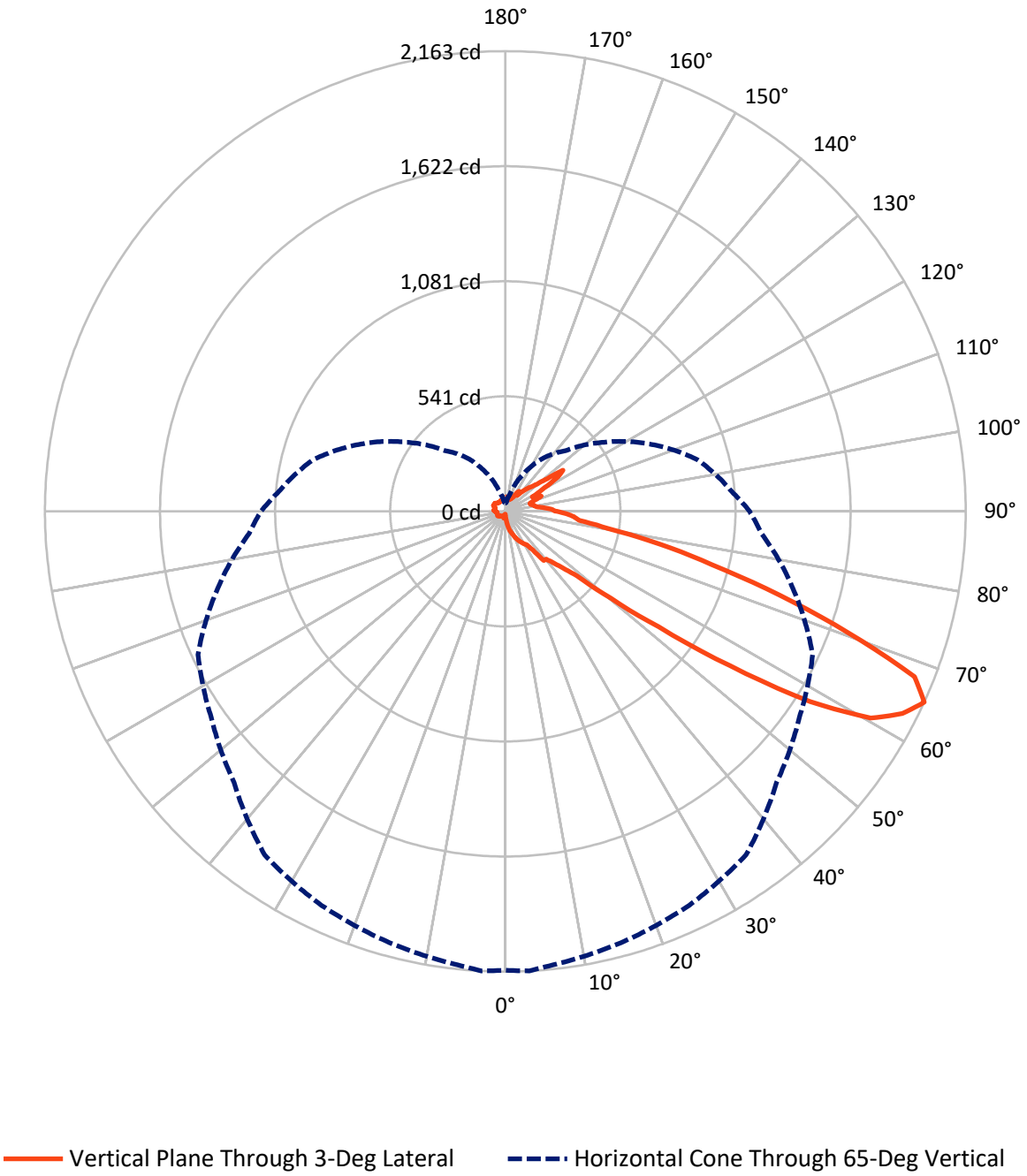
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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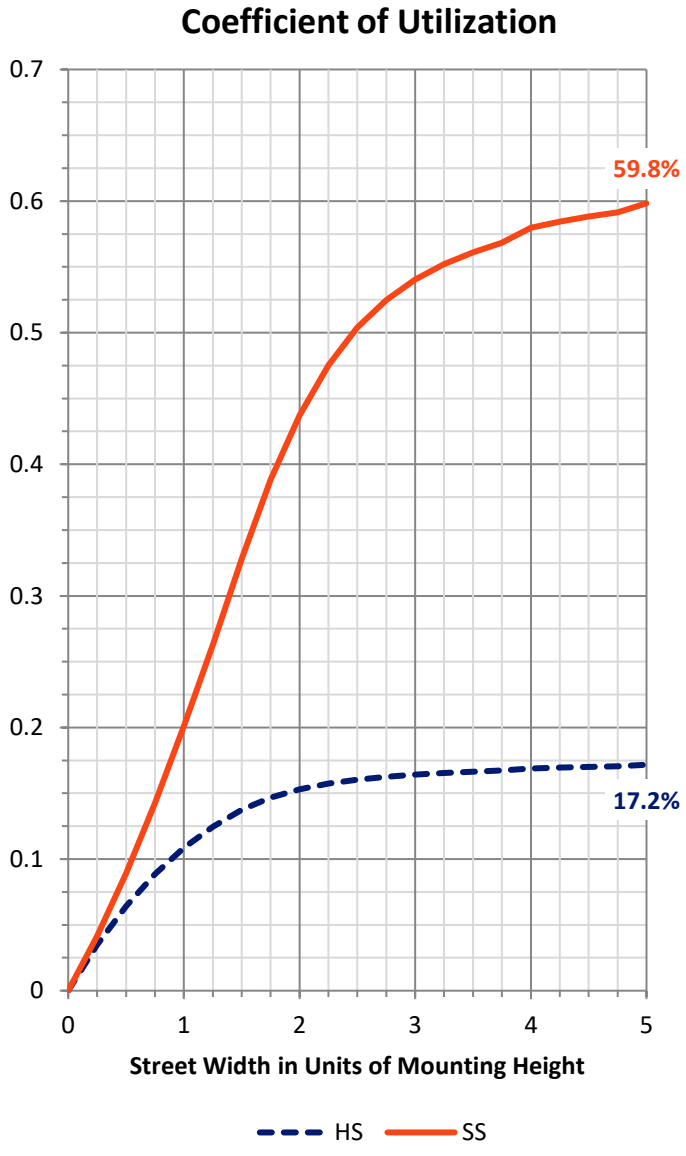
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.1	244.9	874.0
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	2199.2	455.7	2654.9
	% Fixture	62.3	12.9	75.2
Total	Lumens	2828.3	700.6	3528.9
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	20.0	0.6
20°-30°	44.0	1.2
30°-40°	87.9	2.5
40°-50°	189.7	5.4
50°-60°	648.5	18.4
60°-70°	1053.8	29.9
70°-80°	567.0	16.1
80°-90°	213.7	6.1
90°-100°	134.8	3.8
100°-110°	95.8	2.7
110°-120°	105.7	3.0
120°-130°	161.5	4.6
130°-140°	96.9	2.7
140°-150°	53.5	1.5
150°-160°	29.8	0.8
160°-170°	16.5	0.5
170°-180°	6.1	0.2
0°-90°	2828.3	80.1
0°-180°	3528.9	100.0



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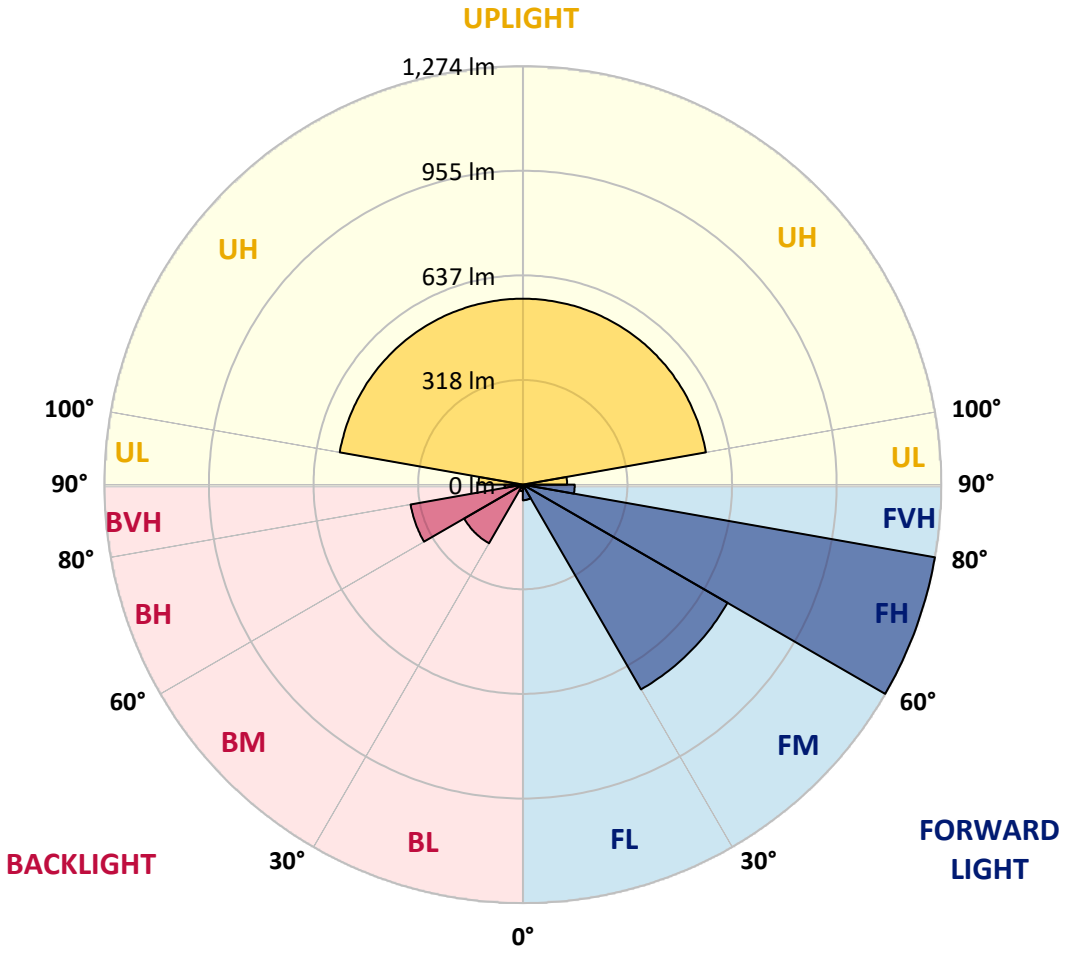
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	47.6	1.3			
FM	(30°-60°)	719.8	20.4			
FH	(60°-80°)	1273.9	36.1			G1/1800
FVH	(80°-90°)	157.9	4.5			G2/225
BL	(0°-30°)	20.1	0.6	B0/110		
BM	(30°-60°)	206.3	5.8	B0/220		
BH	(60°-80°)	347.0	9.8	B1/500		G1/500
BVH	(80°-90°)	55.8	1.6			G1/100
UL	(90°-100°)	134.8	3.8		U3/500	
UH	(100°-180°)	565.8	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	28.1	28.5	28.5	28.5	29.3	29.6	29.3	28.1	26.5	25.7	24.9
5°	40.7	41.5	41.1	41.1	40.3	40.3	39.1	38.3	37.6	34.8	32.0
7.5°	56.5	55.7	55.3	54.6	54.9	53.0	51.4	51.4	50.2	47.4	43.1
10°	73.1	73.1	71.9	71.5	70.8	70.0	67.2	65.6	65.6	60.9	55.7
12.5°	91.3	90.9	91.3	90.5	89.3	87.4	84.2	80.6	78.7	74.3	66.8
15°	103.2	102.8	102.8	102.4	101.6	99.6	97.2	93.7	88.5	84.2	77.1
17.5°	115.8	115.0	115.0	113.1	111.5	109.1	107.1	103.6	97.2	89.3	82.6
20°	129.7	129.7	129.7	126.9	123.7	120.6	117.8	114.6	109.9	98.0	88.5
22.5°	142.7	143.1	142.7	139.9	137.2	132.0	127.7	123.7	119.0	107.1	95.7
25°	155.4	156.1	155.7	155.7	152.2	145.5	139.5	133.6	130.4	118.6	102.8
27.5°	166.4	166.8	167.2	169.2	167.2	159.7	150.2	143.1	140.7	127.7	108.7
30°	177.1	178.3	178.3	180.3	179.9	171.6	160.1	152.2	147.4	134.8	114.6
32.5°	187.4	188.2	188.6	193.3	192.9	181.8	172.0	163.3	155.4	145.9	124.9
35°	224.5	223.3	229.3	232.8	230.1	220.2	208.3	192.1	181.0	170.0	147.4
37.5°	293.7	292.9	292.9	285.0	273.9	262.5	259.3	242.3	228.9	214.6	183.8
40°	295.7	295.7	296.9	305.6	311.1	296.5	282.6	266.0	263.3	248.6	211.1
42.5°	324.5	327.7	330.9	336.8	346.7	337.2	321.4	294.9	282.2	267.2	235.2
45°	373.6	378.3	376.7	379.1	376.7	368.4	367.2	352.6	333.6	304.8	261.7
47.5°	454.6	451.8	450.2	459.7	475.2	459.7	456.2	432.9	396.5	359.7	310.7
50°	653.8	642.0	654.2	652.2	649.5	635.2	624.6	601.3	542.0	482.3	411.5
52.5°	920.7	901.3	912.4	919.9	912.0	891.8	859.8	814.3	734.5	657.4	564.1
55°	1308.4	1281.6	1285.1	1294.6	1300.1	1254.3	1208.4	1108.0	988.3	869.3	768.1
57.5°	1736.6	1688.3	1720.0	1667.0	1645.2	1563.4	1524.7	1423.1	1282.4	1123.4	960.2
60°	1977.7	1972.6	1966.6	1925.5	1902.6	1810.9	1720.0	1624.7	1498.6	1310.8	1119.9
62.5°	2082.4	2093.5	2084.8	2063.5	2042.9	1962.3	1804.2	1691.1	1588.7	1395.8	1205.3
65°	2156.4	2162.7	2148.1	2098.7	2042.9	1971.0	1802.2	1686.8	1593.1	1398.6	1208.8
67.5°	2071.8	2073.0	2055.2	1991.1	1878.1	1814.8	1651.2	1550.4	1458.7	1292.6	1115.1
70°	1706.5	1710.1	1699.0	1642.1	1547.2	1492.3	1334.5	1231.0	1161.8	1047.2	916.3
72.5°	1330.2	1345.6	1329.8	1307.3	1217.1	1176.4	1070.5	986.7	923.0	815.1	709.6
75°	1000.1	1003.7	1004.1	978.8	931.3	922.2	849.5	794.2	738.8	650.3	572.8
77.5°	725.4	741.2	735.7	731.3	669.2	672.8	643.9	611.1	576.3	517.4	462.1
80°	481.5	489.8	479.9	482.3	474.0	472.0	445.1	423.0	401.6	374.4	352.6
82.5°	351.0	349.4	348.7	344.3	338.0	339.2	325.7	298.5	272.8	267.2	247.1
85°	324.5	323.4	322.2	314.3	300.8	292.5	285.0	273.9	258.1	233.2	207.1
87.5°	283.8	284.2	281.5	273.2	264.5	262.1	256.2	249.0	241.1	222.6	199.6
90°	233.6	232.4	232.8	228.1	229.7	228.9	219.8	211.1	207.9	192.1	178.7
92.5°	215.8	214.6	215.0	211.5	206.0	204.8	194.9	184.2	179.5	169.6	159.3
95°	180.3	180.3	178.7	177.1	174.3	170.4	165.2	158.1	154.6	146.7	136.4
97.5°	151.4	149.8	151.0	148.2	145.9	144.3	140.3	133.2	129.7	123.7	115.8
100°	140.7	140.7	140.3	139.1	133.2	130.1	125.7	119.0	116.2	111.1	105.2
102.5°	134.8	134.4	134.0	132.8	127.3	121.8	116.2	112.3	109.1	104.8	98.4
105°	123.3	123.3	124.1	123.7	119.8	116.2	110.3	106.7	103.6	99.2	93.3
107.5°	122.1	121.8	121.8	117.0	111.9	109.9	105.5	102.4	99.6	95.3	88.5
110°	139.9	140.7	141.9	134.0	121.8	116.6	110.3	106.7	103.6	98.0	90.9

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	183.4	*183.4*	182.6	178.3	156.9	142.7	139.5	130.4	125.3	117.0	107.1
115°	164.8	*165.2*	164.8	166.0	164.4	146.7	149.8	134.8	143.5	124.1	117.4
117.5°	143.9	*143.5*	141.9	142.3	143.9	155.4	130.4	126.9	130.4	113.1	107.1
120°	200.8	*197.3*	200.8	186.2	183.8	185.8	171.6	168.8	153.8	132.8	117.0
122.5°	295.7	*290.2*	298.1	292.9	296.9	283.8	270.0	258.5	241.9	206.7	175.1
125°	334.0	*332.8*	330.9	323.8	317.4	311.9	314.3	318.6	309.5	281.1	244.3
127.5°	245.9	*249.0*	247.9	262.1	275.9	272.8	264.5	268.4	273.2	271.6	249.8
130°	196.1	*198.8*	200.4	214.3	226.1	226.1	212.7	209.1	213.1	221.4	213.1
132.5°	172.0	*172.7*	173.5	178.3	188.2	192.9	184.6	179.1	180.7	185.0	177.9
135°	155.0	*154.6*	153.4	150.2	151.0	155.7	159.3	158.5	157.3	157.3	153.4
137.5°	134.4	*134.0*	134.0	129.3	127.3	131.2	136.4	141.1	138.0	133.6	128.9
140°	111.9	*111.5*	111.9	114.6	115.4	115.8	118.6	118.6	118.6	118.2	116.2
142.5°	92.9	*93.3*	94.1	101.2	104.8	104.8	101.2	98.0	97.6	100.0	100.4
145°	114.2	*114.2*	114.6	114.2	111.9	109.5	107.1	107.1	104.8	99.2	96.5
147.5°	102.0	*103.6*	102.4	103.6	104.4	104.8	104.4	105.5	105.9	102.8	98.4
150°	80.2	*79.9*	79.1	80.2	82.2	84.6	85.4	86.2	86.6	86.6	86.6
152.5°	69.6	*70.0*	69.6	70.8	71.9	72.3	73.5	73.5	73.9	73.5	72.7
155°	67.6	*67.6*	67.6	67.6	68.0	68.8	70.4	71.2	70.4	69.2	67.2
157.5°	62.9	*62.9*	62.9	63.2	64.0	64.8	66.0	66.8	66.8	66.0	64.4
160°	60.1	*60.1*	60.1	60.1	60.9	61.7	62.5	63.2	63.2	62.9	61.7
162.5°	56.9	*56.9*	56.9	57.3	58.1	58.9	59.7	60.5	60.1	60.1	59.3
165°	56.5	*56.5*	56.5	56.9	57.7	58.9	59.3	59.3	59.7	59.7	59.7
167.5°	58.1	*58.1*	58.5	58.5	59.3	59.7	60.5	60.9	61.3	60.9	60.9
170°	60.5	*60.5*	60.5	60.9	61.3	61.3	61.7	61.7	62.1	62.1	62.1
172.5°	63.6	*63.6*	63.6	63.6	63.2	63.2	63.2	63.2	63.6	63.2	63.6
175°	67.2	*67.2*	67.2	66.8	66.4	66.4	66.0	66.0	65.6	65.2	65.2
177.5°	67.6	*67.6*	67.6	67.6	67.2	66.8	66.8	66.4	66.0	66.0	66.0
180°	66.0	*66.0*	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	24.1	23.3	21.3	19.8	18.6	17.0	15.8	14.6	13.8	13.4	13.0
5°	31.6	30.0	27.7	25.3	23.3	20.6	19.0	16.2	14.2	13.4	13.0
7.5°	41.5	40.3	39.1	38.7	37.9	34.4	29.3	25.3	24.5	23.7	24.5
10°	53.0	50.6	47.0	49.0	49.0	42.3	35.2	31.2	30.8	32.4	32.8
12.5°	63.6	60.5	56.1	55.7	51.4	42.3	34.8	30.8	30.4	30.8	31.2
15°	73.5	70.0	65.2	61.3	54.6	45.1	36.4	31.2	30.0	31.2	31.2
17.5°	79.1	75.5	68.8	61.3	53.4	44.7	36.0	30.4	27.7	26.1	26.1
20°	85.8	83.0	73.9	64.4	53.8	44.3	35.6	29.6	26.5	24.9	24.5
22.5°	91.7	88.5	78.7	68.4	56.1	44.3	34.4	29.3	26.5	24.9	24.5
25°	98.8	94.1	84.2	72.7	58.1	44.3	34.4	29.6	26.9	25.3	24.9
27.5°	103.6	98.0	88.5	75.9	60.5	45.1	35.6	30.0	26.9	25.3	25.3
30°	108.3	103.2	92.1	80.2	63.2	47.0	37.6	31.6	28.1	26.1	26.1
32.5°	117.8	111.1	97.6	83.8	65.6	48.6	39.5	33.2	29.3	27.3	27.3
35°	139.1	129.7	113.5	94.1	68.8	50.2	41.5	35.2	30.0	27.7	27.7
37.5°	171.6	159.7	139.9	113.5	76.7	52.6	43.1	36.0	30.8	28.9	28.5
40°	192.9	178.3	154.6	128.9	88.2	56.5	45.1	37.2	31.6	29.3	28.9
42.5°	218.6	200.8	169.2	133.6	94.1	64.8	49.0	39.1	32.8	29.6	29.3
45°	241.9	226.9	197.3	156.1	111.1	77.1	56.1	42.7	34.8	30.8	30.4
47.5°	289.4	266.0	226.5	184.2	132.4	95.7	68.4	48.2	37.9	32.4	31.6
50°	381.9	357.7	309.9	244.3	171.2	121.8	88.2	58.5	41.9	34.0	32.8
52.5°	518.6	474.4	421.0	332.4	242.7	175.9	124.9	82.6	49.8	35.6	33.6
55°	701.7	676.4	581.9	469.2	345.9	263.3	192.1	128.5	74.3	37.6	34.0
57.5°	911.6	861.4	775.2	634.9	462.5	335.2	259.7	191.3	109.5	43.9	36.0
60°	1046.8	994.6	895.8	753.8	562.9	399.6	296.1	213.1	124.1	45.1	37.6
62.5°	1134.1	1061.0	935.7	769.7	592.2	426.1	312.7	202.4	105.9	43.9	38.7
65°	*1147.6*	*1068.1*	*935.7*	*747.9*	*565.7*	*404.4*	*302.4*	*187.0*	*83.4*	*41.9*	*40.3*
67.5°	1068.1	981.9	872.0	685.8	507.6	346.7	259.7	152.6	63.2	40.7	39.9
70°	864.9	810.8	710.8	559.0	405.2	283.8	206.7	117.0	51.4	39.5	39.1
72.5°	660.9	621.8	551.8	435.6	312.3	219.0	157.7	92.1	46.3	38.7	38.3
75°	526.1	490.6	433.6	335.6	238.4	168.8	117.8	70.8	42.3	38.7	37.9
77.5°	434.0	402.8	351.4	266.0	173.9	126.1	89.3	57.3	41.5	38.7	38.3
80°	334.0	311.5	273.2	193.3	124.5	94.5	71.2	51.0	41.5	39.5	39.1
82.5°	236.8	228.1	199.2	150.6	104.8	82.2	65.6	50.2	42.3	40.3	39.9
85°	196.9	186.6	166.0	131.2	97.6	79.5	64.8	51.4	44.3	42.7	42.3
87.5°	189.7	183.0	162.9	126.9	93.7	75.9	62.1	50.2	44.3	43.5	43.9
90°	171.6	164.1	148.6	118.2	89.7	75.5	63.2	52.2	45.9	45.1	44.7
92.5°	155.7	151.4	138.0	114.2	92.5	78.3	66.8	56.9	51.8	50.2	50.2
95°	133.2	128.9	121.4	104.8	88.2	76.7	66.8	58.1	53.8	53.0	52.6
97.5°	113.5	110.7	104.4	91.3	78.3	68.8	60.1	53.4	49.8	48.6	48.6
100°	103.6	101.2	96.1	87.4	77.5	69.6	62.5	56.5	53.4	52.6	52.6
102.5°	96.5	94.5	89.7	83.4	74.7	68.4	62.5	57.3	53.8	53.0	53.4
105°	90.5	88.5	83.8	77.5	70.4	63.6	59.3	55.3	51.4	50.2	50.2
107.5°	86.2	84.2	80.2	73.9	68.0	62.1	57.3	54.2	51.0	50.2	50.2
110°	88.2	85.4	79.5	72.7	67.6	62.5	58.5	55.3	53.0	51.8	51.8

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

Scaled Data Report

REPORT NUMBER: P1045783
CATALOG NUMBER: FFX-CLB-40-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	103.2	98.8	88.9	79.5	72.7	66.8	62.5	58.1	56.1	54.6	54.6
115°	113.1	108.7	98.8	87.4	77.5	69.2	63.2	59.7	57.3	58.9	58.1
117.5°	103.2	100.0	92.5	84.2	76.3	69.2	64.0	61.7	60.1	62.1	62.9
120°	113.5	107.5	101.6	92.1	77.5	67.6	64.0	63.2	63.2	61.7	61.7
122.5°	162.1	152.2	130.1	113.8	93.7	82.6	75.9	69.6	63.2	60.9	60.5
125°	226.9	208.3	180.3	151.8	124.1	100.8	81.4	69.6	63.6	60.1	59.3
127.5°	238.8	222.6	196.9	162.5	124.9	98.4	81.0	71.9	65.2	61.3	60.9
130°	201.6	193.7	170.8	141.1	112.3	91.7	80.2	71.9	65.6	62.1	61.3
132.5°	171.2	165.6	144.3	120.6	100.0	85.0	74.7	65.6	59.7	56.5	55.7
135°	147.1	143.5	124.9	107.9	92.5	80.2	69.6	60.9	56.1	54.2	53.8
137.5°	126.1	122.5	109.9	98.0	86.2	75.5	66.8	59.3	54.9	53.8	53.4
140°	113.1	109.9	102.0	89.3	77.9	66.8	60.5	55.7	53.4	52.6	52.2
142.5°	98.4	94.9	86.2	77.1	69.2	60.5	56.1	54.2	53.0	52.2	51.8
145°	93.3	90.9	81.0	72.7	65.2	60.9	58.5	55.7	53.4	51.8	51.4
147.5°	94.5	91.7	83.0	75.1	68.4	63.6	59.7	55.7	52.6	51.0	50.6
150°	84.6	83.8	78.7	72.3	66.0	60.9	56.9	53.8	51.8	51.4	51.4
152.5°	70.8	70.4	68.0	64.4	60.1	56.1	53.4	51.8	51.8	52.6	53.0
155°	66.4	65.2	63.6	61.3	57.7	54.9	53.0	52.2	52.6	53.4	53.4
157.5°	64.0	62.9	61.3	59.3	57.3	54.9	53.4	53.0	53.8	54.6	54.6
160°	60.9	60.1	58.9	56.9	55.3	54.2	53.4	53.4	53.8	54.2	54.2
162.5°	58.9	58.1	56.9	55.7	54.9	54.6	54.2	53.8	54.2	54.6	54.6
165°	58.9	58.5	56.9	55.7	55.3	55.3	55.3	55.3	55.3	54.9	54.9
167.5°	60.5	60.1	58.9	58.1	57.7	58.1	58.1	57.7	57.3	56.5	56.5
170°	62.1	61.7	61.3	60.9	60.5	60.9	60.9	60.9	60.5	60.5	60.1
172.5°	63.6	63.2	62.9	62.5	62.5	62.5	62.9	63.2	63.2	63.2	63.2
175°	65.2	65.2	64.4	64.0	64.0	64.0	64.4	64.4	64.8	64.8	64.8
177.5°	66.0	66.0	66.0	66.0	66.4	66.0	66.0	65.6	65.6	65.6	65.6
180°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0

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

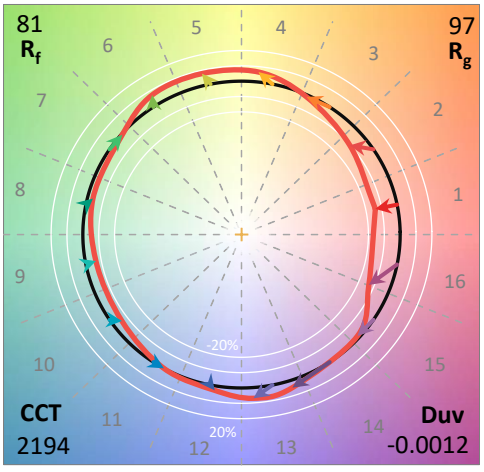
Test Information

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

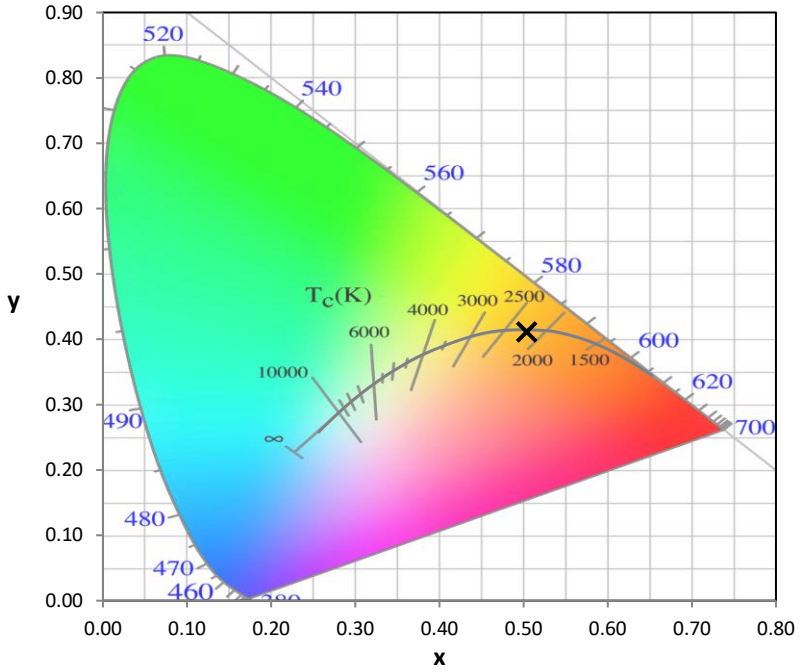
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

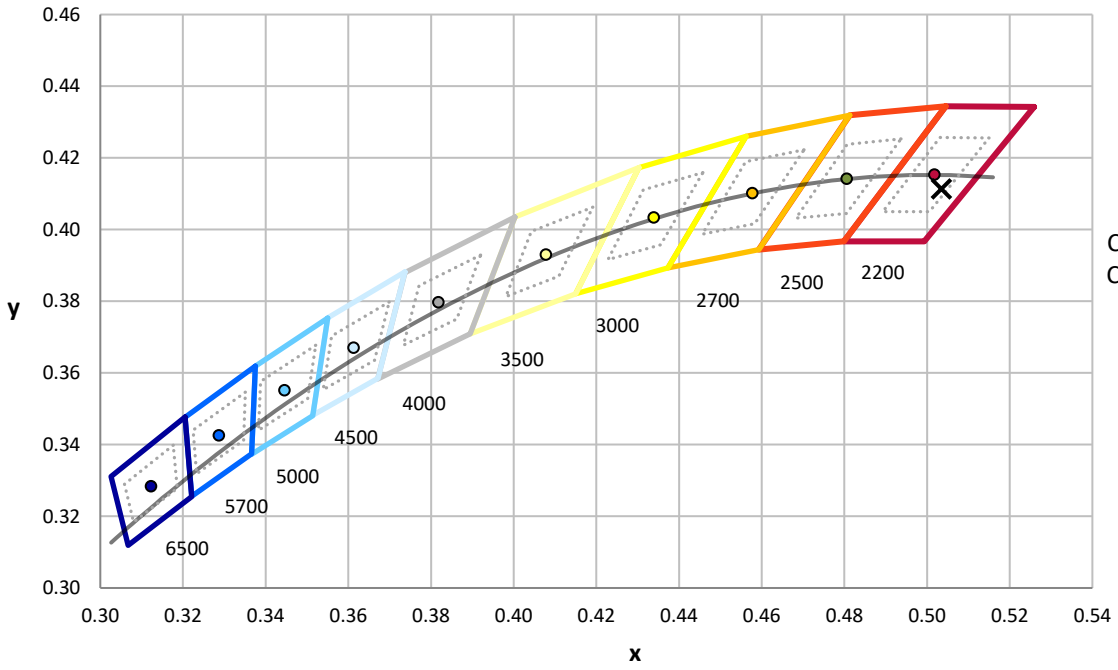
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

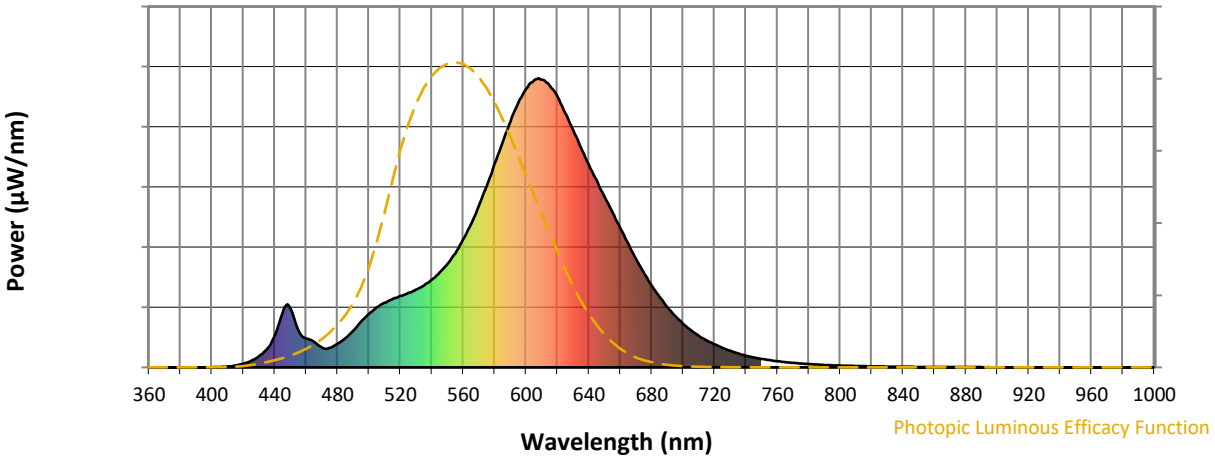


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

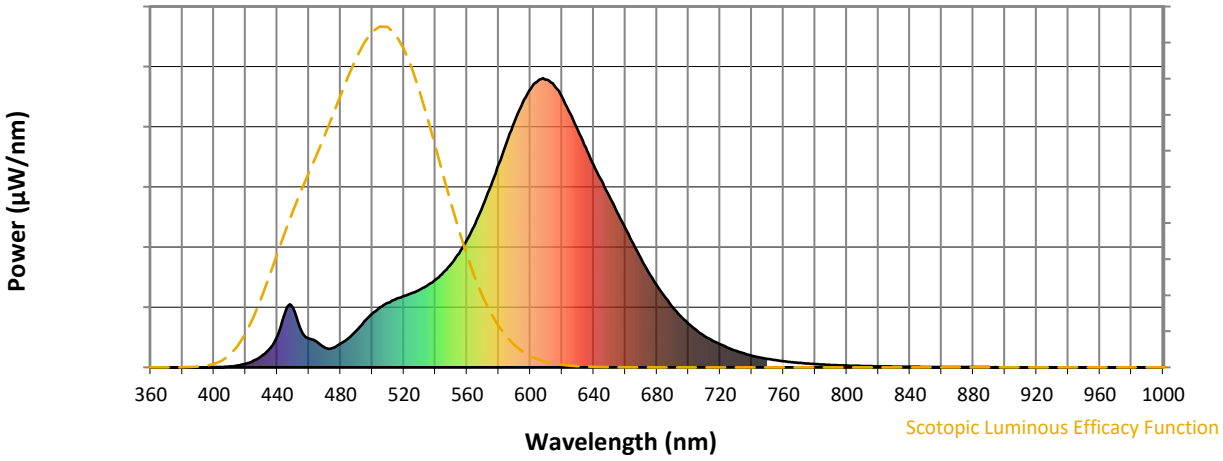


Photopic Lumens: NR

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

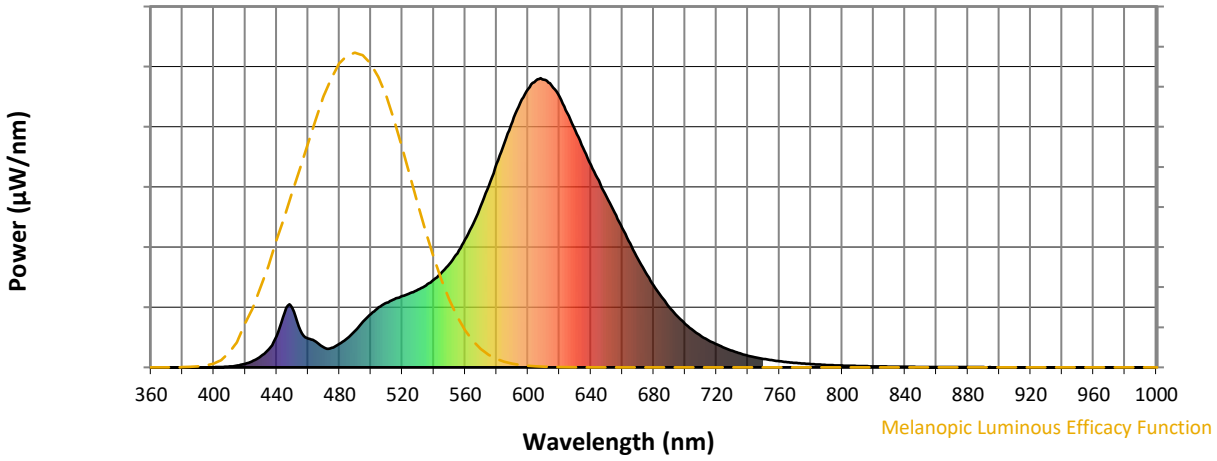


Scotopic Lumens: NR **S/P: 0.96**

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			

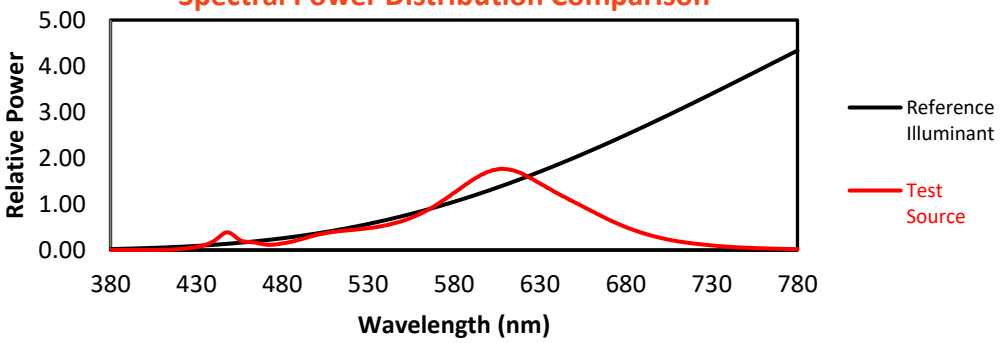
REPORT NUMBER: SP1-2501-332-7

TM-30-18

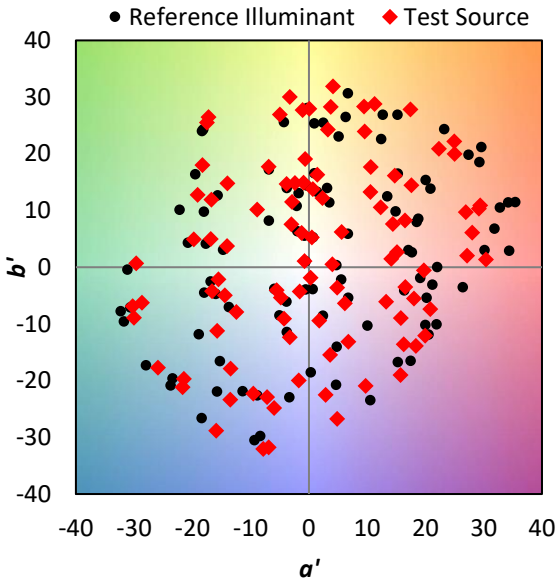
Summary

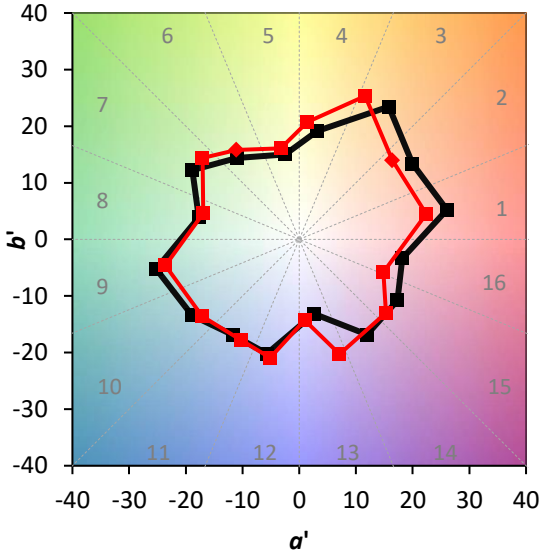
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

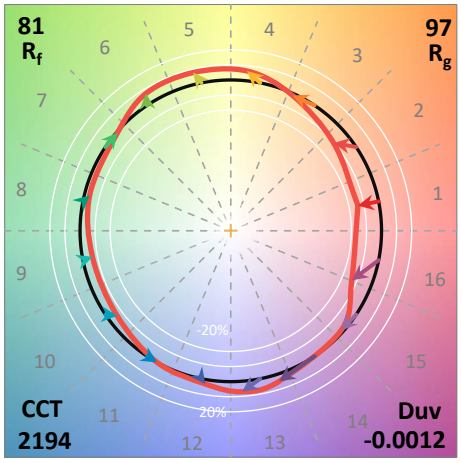
Spectral Power Distribution Comparison

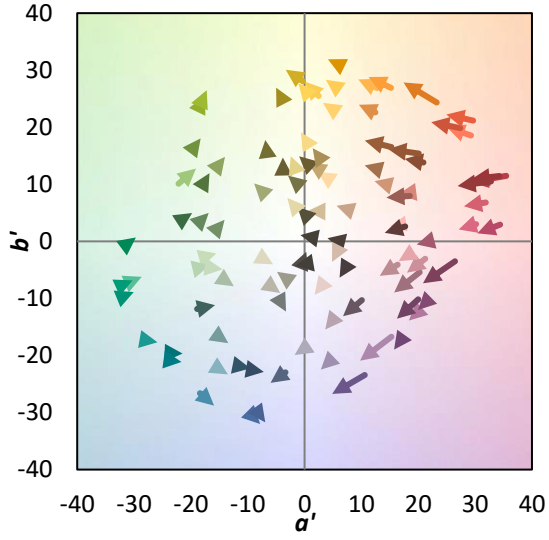


Color Vector Graphics







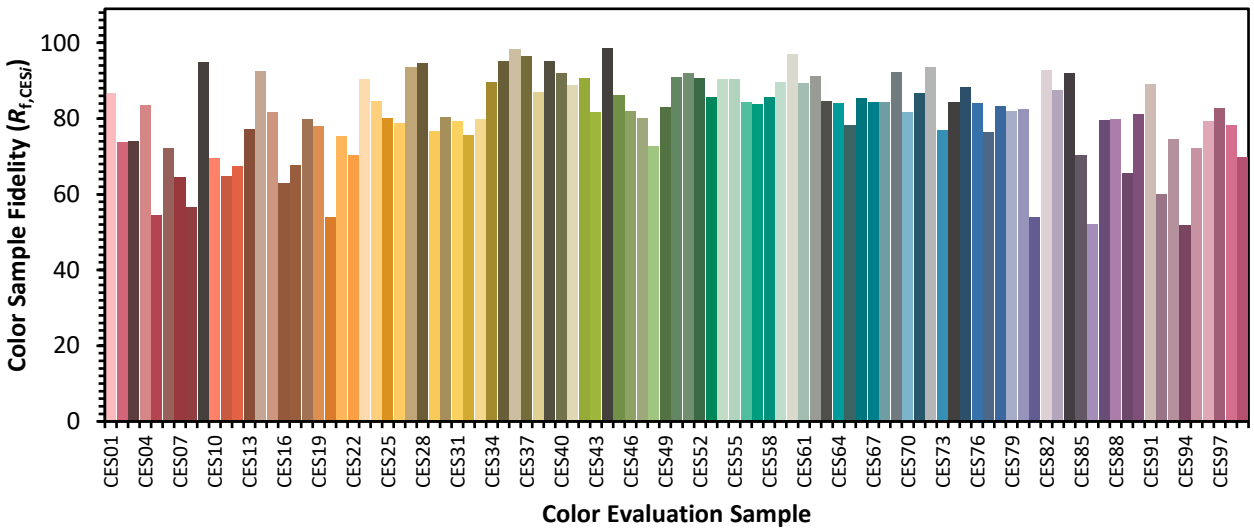


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

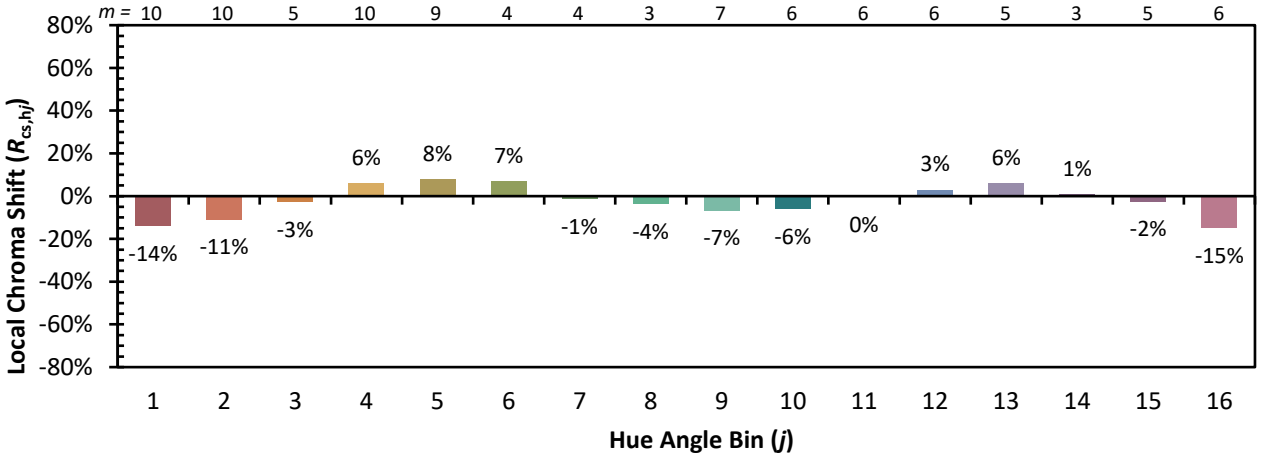
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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	

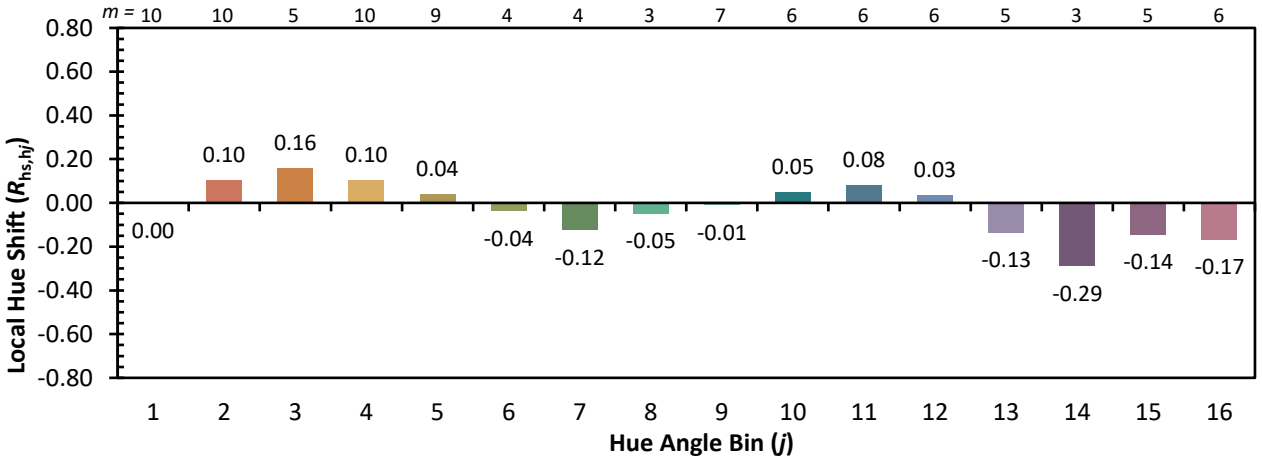


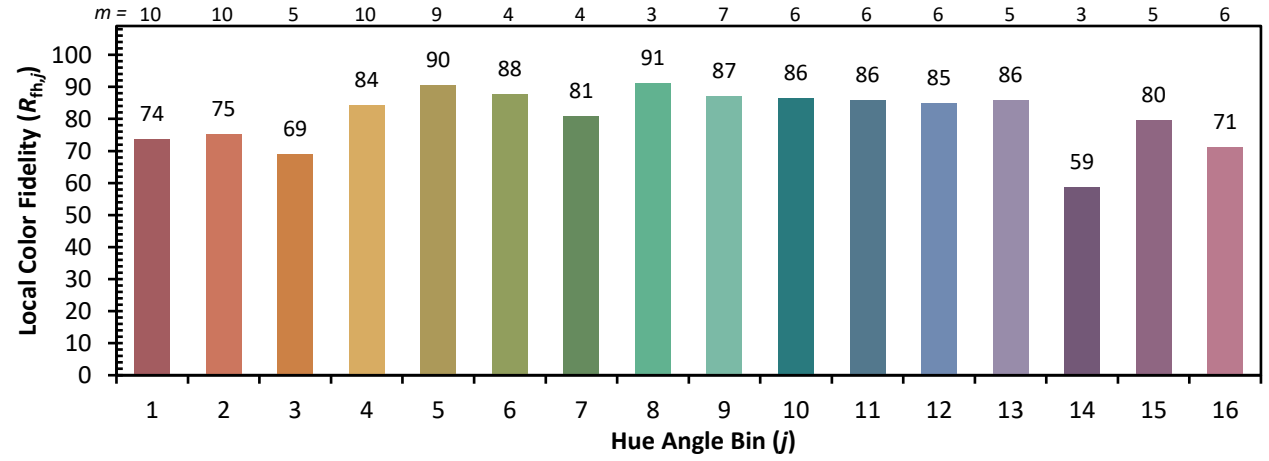
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Color Rendition by Hue-Angle Bin



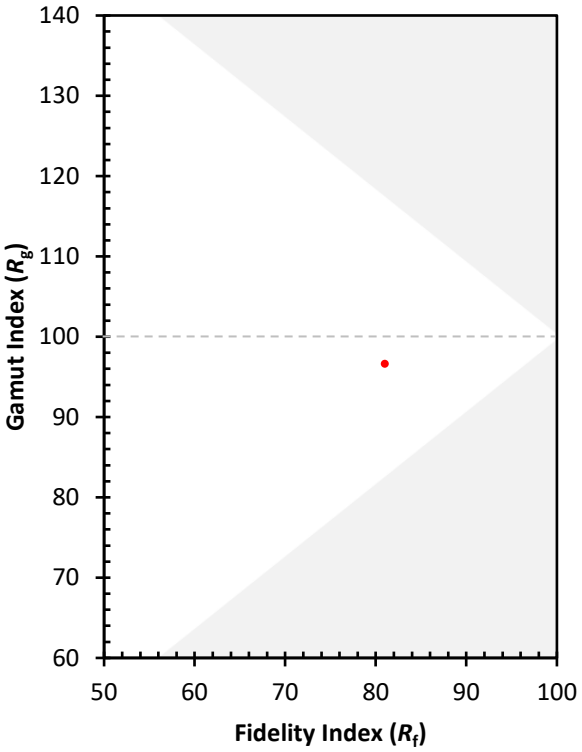


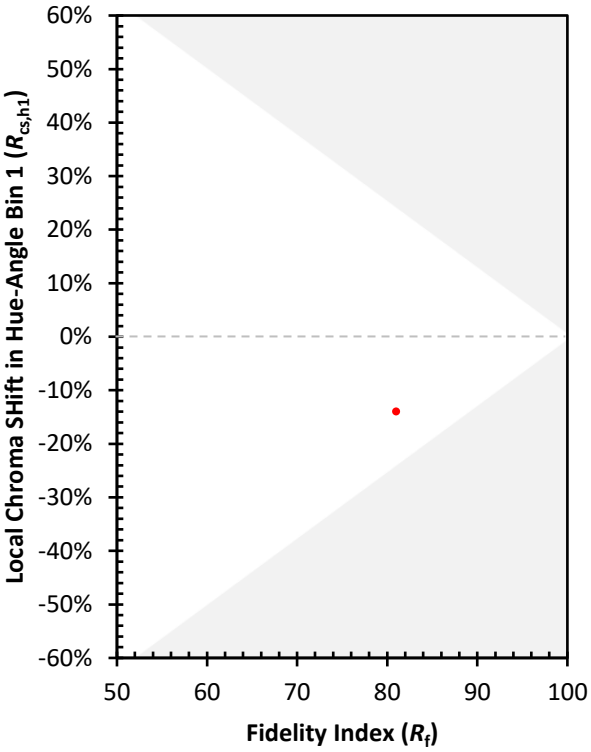


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Measure Comparisons





(END OF REPORT)