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: P1045785

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

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045785
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-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:	1818.7 lumens
Efficiency:	N/A
Efficacy:	91.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G1

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

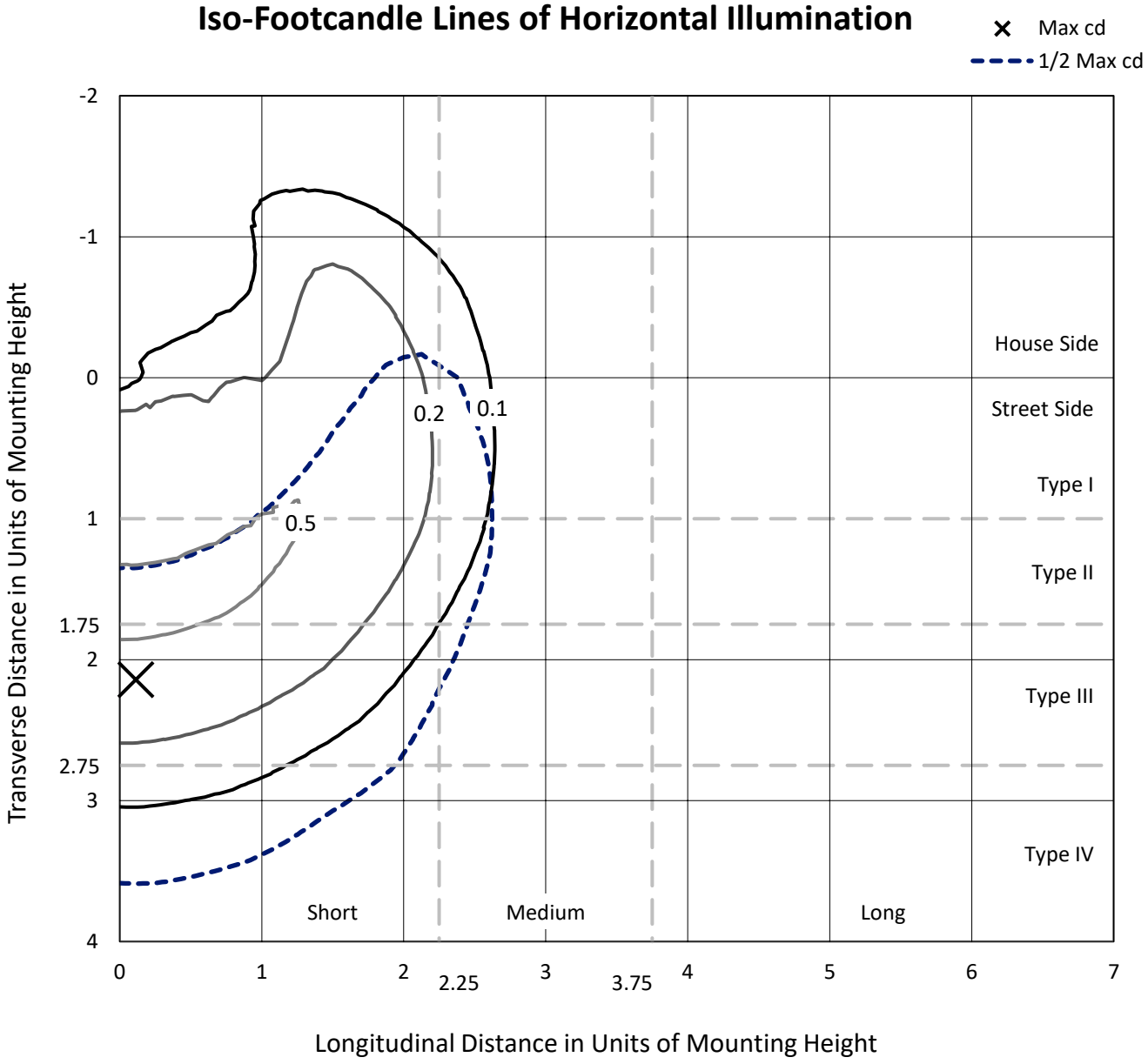


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Iso-Footcandle Lines of Horizontal Illumination



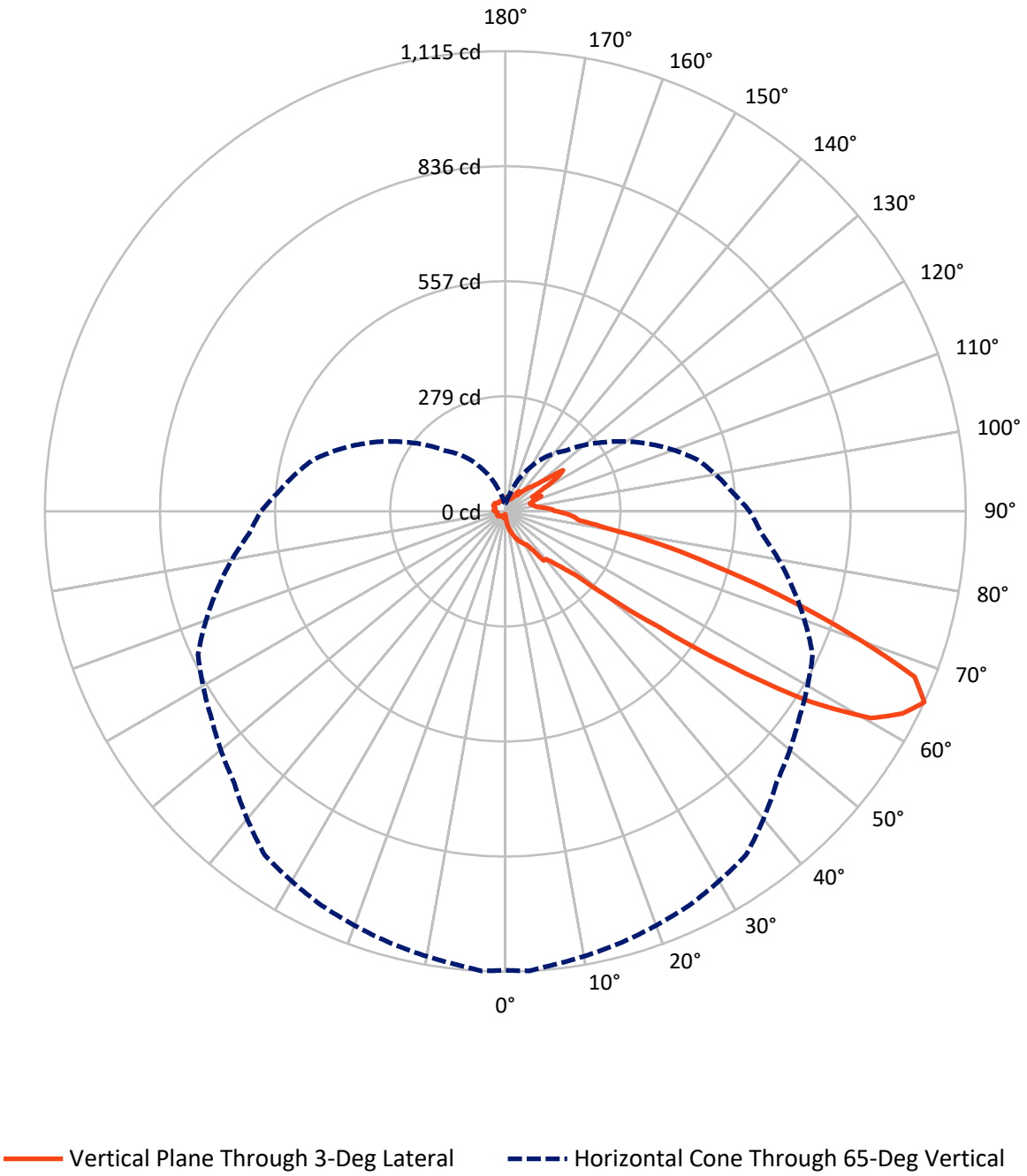
Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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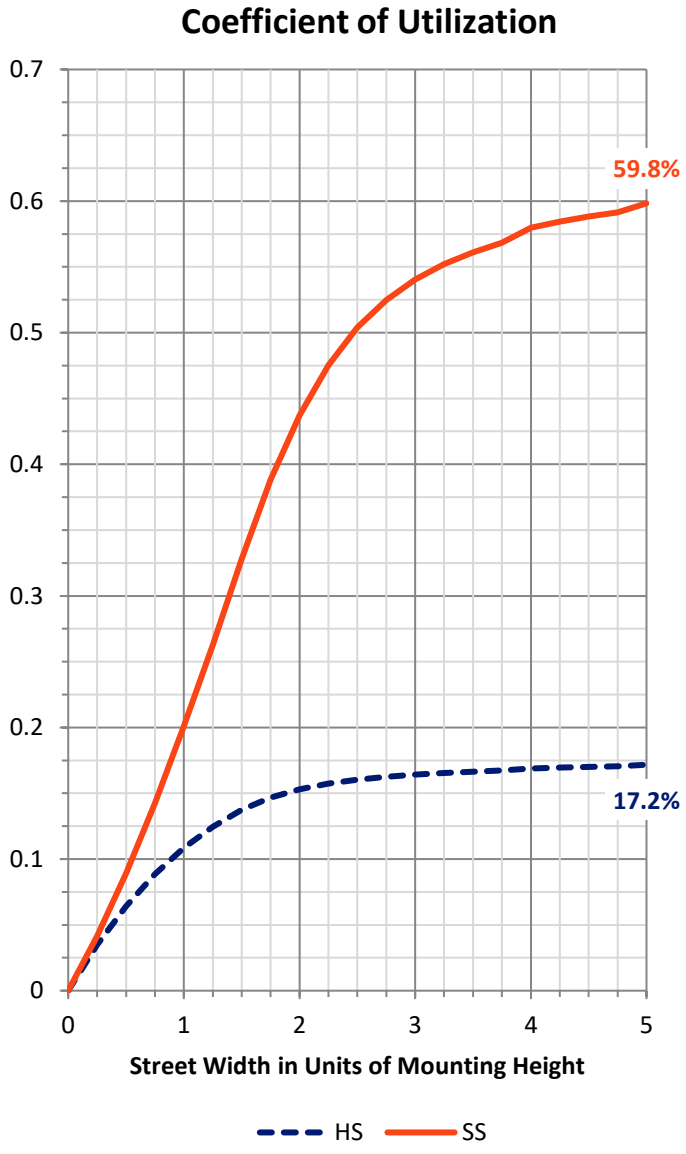
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	324.2	126.2	450.4
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	1133.4	234.9	1368.3
	% Fixture	62.3	12.9	75.2
Total	Lumens	1457.6	361.1	1818.7
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.1
10°-20°	10.3	0.6
20°-30°	22.7	1.2
30°-40°	45.3	2.5
40°-50°	97.7	5.4
50°-60°	334.2	18.4
60°-70°	543.1	29.9
70°-80°	292.2	16.1
80°-90°	110.1	6.1
90°-100°	69.5	3.8
100°-110°	49.4	2.7
110°-120°	54.5	3.0
120°-130°	83.3	4.6
130°-140°	49.9	2.7
140°-150°	27.6	1.5
150°-160°	15.3	0.8
160°-170°	8.5	0.5
170°-180°	3.1	0.2
0°-90°	1457.6	80.1
0°-180°	1818.7	100.0



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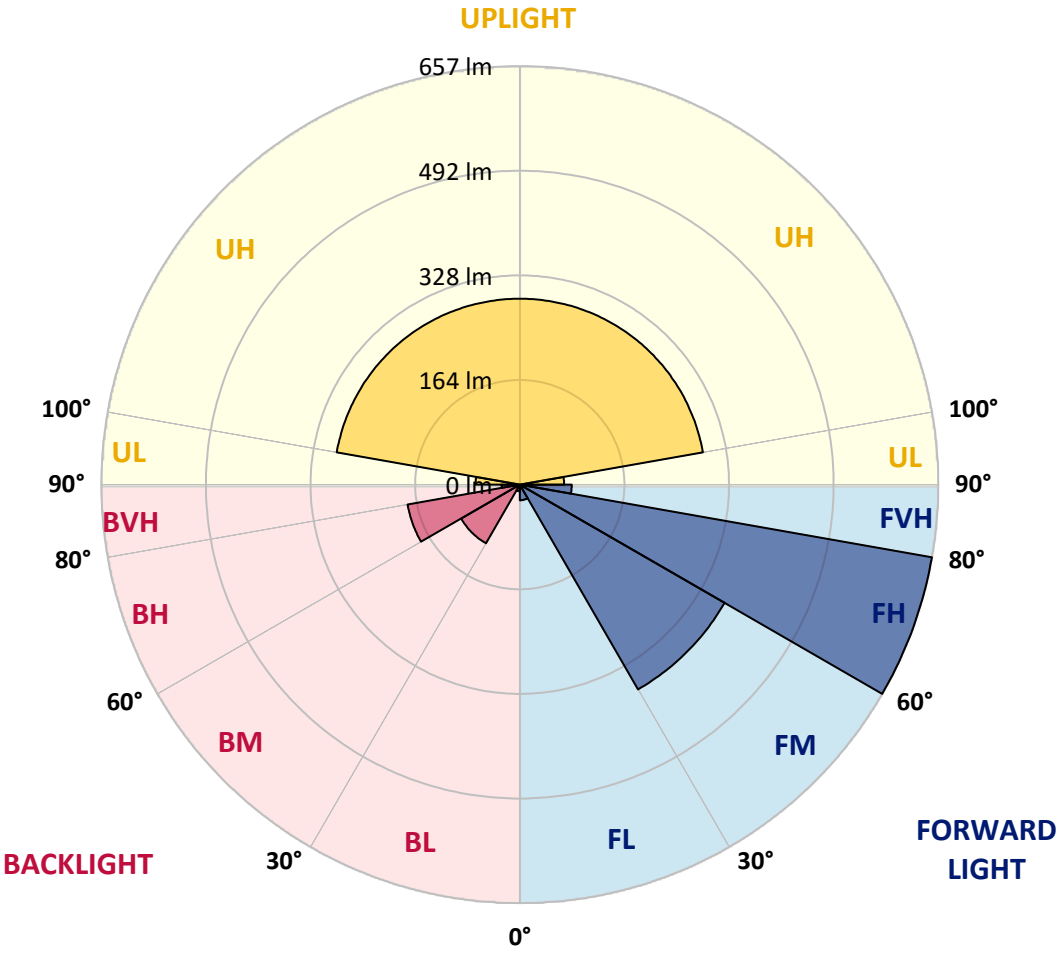
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	24.5	1.3			
FM	(30°-60°)	371.0	20.4			
FH	(60°-80°)	656.5	36.1			G0/660
FVH	(80°-90°)	81.4	4.5			G1/100
BL	(0°-30°)	10.4	0.6	B0/110		
BM	(30°-60°)	106.3	5.8	B0/220		
BH	(60°-80°)	178.8	9.8	B1/500		G1/500
BVH	(80°-90°)	28.7	1.6			G1/100
UL	(90°-100°)	69.5	3.8		U3/500	
UH	(100°-180°)	291.6	16.0		U3/500	

BUG Rating: B1-U3-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
2.5°	14.5	14.7	14.7	14.7	15.1	15.3	15.1	14.5	13.6	13.2	12.8
5°	21.0	21.4	21.2	21.2	20.8	20.8	20.2	19.8	19.4	17.9	16.5
7.5°	29.1	28.7	28.5	28.1	28.3	27.3	26.5	26.5	25.9	24.4	22.2
10°	37.7	37.7	37.1	36.9	36.5	36.1	34.6	33.8	33.8	31.4	28.7
12.5°	47.1	46.9	47.1	46.7	46.0	45.0	43.4	41.6	40.5	38.3	34.4
15°	53.2	53.0	53.0	52.8	52.4	51.3	50.1	48.3	45.6	43.4	39.7
17.5°	59.7	59.3	59.3	58.3	57.5	56.2	55.2	53.4	50.1	46.0	42.6
20°	66.8	66.8	66.8	65.4	63.8	62.1	60.7	59.1	56.6	50.5	45.6
22.5°	73.5	73.7	73.5	72.1	70.7	68.0	65.8	63.8	61.3	55.2	49.3
25°	80.1	80.5	80.3	80.3	78.4	75.0	71.9	68.9	67.2	61.1	53.0
27.5°	85.8	86.0	86.2	87.2	86.2	82.3	77.4	73.7	72.5	65.8	56.0
30°	91.3	91.9	91.9	92.9	92.7	88.4	82.5	78.4	76.0	69.5	59.1
32.5°	96.6	97.0	97.2	99.6	99.4	93.7	88.6	84.1	80.1	75.2	64.4
35°	115.7	115.1	118.2	120.0	118.6	113.5	107.4	99.0	93.3	87.6	76.0
37.5°	151.4	151.0	151.0	146.9	141.2	135.3	133.6	124.9	118.0	110.6	94.7
40°	152.4	152.4	153.0	157.5	160.3	152.8	145.7	137.1	135.7	128.1	108.8
42.5°	167.3	168.9	170.5	173.6	178.7	173.8	165.6	152.0	145.5	137.7	121.2
45°	192.5	195.0	194.2	195.4	194.2	189.9	189.3	181.7	171.9	157.1	134.9
47.5°	234.3	232.9	232.0	236.9	244.9	236.9	235.1	223.1	204.3	185.4	160.1
50°	337.0	330.9	337.2	336.1	334.7	327.4	321.9	309.9	279.3	248.5	212.1
52.5°	474.5	464.5	470.2	474.1	470.0	459.6	443.1	419.7	378.5	338.8	290.7
55°	674.3	660.5	662.3	667.2	670.1	646.4	622.8	571.0	509.3	448.0	395.8
57.5°	895.0	870.1	886.4	859.1	847.9	805.7	785.8	733.4	660.9	579.0	494.9
60°	1019.2	1016.6	1013.5	992.4	980.5	933.3	886.4	837.3	772.3	675.6	577.2
62.5°	1073.2	1078.9	1074.5	1063.5	1052.9	1011.3	929.8	871.5	818.8	719.4	621.2
65°	1111.3	1114.6	1107.1	1081.6	1052.9	1015.8	928.8	869.3	821.0	720.8	623.0
67.5°	1067.7	1068.3	1059.2	1026.2	967.9	935.3	851.0	799.0	751.8	666.2	574.7
70°	879.5	881.3	875.6	846.3	797.4	769.1	687.8	634.4	598.8	539.7	472.2
72.5°	685.5	693.5	685.3	673.7	627.3	606.3	551.7	508.5	475.7	420.1	365.7
75°	515.4	517.3	517.5	504.4	480.0	475.3	437.8	409.3	380.8	335.1	295.2
77.5°	373.8	382.0	379.1	376.9	344.9	346.7	331.9	315.0	297.0	266.7	238.2
80°	248.1	252.4	247.3	248.5	244.3	243.2	229.4	218.0	207.0	192.9	181.7
82.5°	180.9	180.1	179.7	177.4	174.2	174.8	167.9	153.8	140.6	137.7	127.3
85°	167.3	166.6	166.0	162.0	155.0	150.8	146.9	141.2	133.0	120.2	106.8
87.5°	146.3	146.5	145.1	140.8	136.3	135.1	132.0	128.3	124.3	114.7	102.9
90°	120.4	119.8	120.0	117.6	118.4	118.0	113.3	108.8	107.2	99.0	92.1
92.5°	111.2	110.6	110.8	109.0	106.1	105.5	100.4	94.9	92.5	87.4	82.1
95°	92.9	92.9	92.1	91.3	89.8	87.8	85.2	81.5	79.7	75.6	70.3
97.5°	78.0	77.2	77.8	76.4	75.2	74.4	72.3	68.7	66.8	63.8	59.7
100°	72.5	72.5	72.3	71.7	68.7	67.0	64.8	61.3	59.9	57.2	54.2
102.5°	69.5	69.3	69.1	68.5	65.6	62.7	59.9	57.9	56.2	54.0	50.7
105°	63.6	63.6	64.0	63.8	61.7	59.9	56.8	55.0	53.4	51.1	48.1
107.5°	63.0	62.7	62.7	60.3	57.7	56.6	54.4	52.8	51.3	49.1	45.6
110°	72.1	72.5	73.1	69.1	62.7	60.1	56.8	55.0	53.4	50.5	46.9

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	94.5	*94.5*	94.1	91.9	80.9	73.5	71.9	67.2	64.6	60.3	55.2
115°	85.0	*85.2*	85.0	85.6	84.8	75.6	77.2	69.5	74.0	64.0	60.5
117.5°	74.2	*74.0*	73.1	73.3	74.2	80.1	67.2	65.4	67.2	58.3	55.2
120°	103.5	*101.7*	103.5	96.0	94.7	95.8	88.4	87.0	79.2	68.5	60.3
122.5°	152.4	*149.5*	153.6	151.0	153.0	146.3	139.1	133.2	124.7	106.5	90.3
125°	172.1	*171.5*	170.5	166.9	163.6	160.7	162.0	164.2	159.5	144.8	125.9
127.5°	126.7	*128.3*	127.7	135.1	142.2	140.6	136.3	138.3	140.8	140.0	128.8
130°	101.0	*102.5*	103.3	110.4	116.5	116.5	109.6	107.8	109.8	114.1	109.8
132.5°	88.6	*89.0*	89.4	91.9	97.0	99.4	95.1	92.3	93.1	95.3	91.7
135°	79.9	*79.7*	79.0	77.4	77.8	80.3	82.1	81.7	81.1	81.1	79.0
137.5°	69.3	*69.1*	69.1	66.6	65.6	67.6	70.3	72.7	71.1	68.9	66.4
140°	57.7	*57.5*	57.7	59.1	59.5	59.7	61.1	61.1	61.1	60.9	59.9
142.5°	47.9	*48.1*	48.5	52.2	54.0	54.0	52.2	50.5	50.3	51.5	51.7
145°	58.9	*58.9*	59.1	58.9	57.7	56.4	55.2	55.2	54.0	51.1	49.7
147.5°	52.6	*53.4*	52.8	53.4	53.8	54.0	53.8	54.4	54.6	53.0	50.7
150°	41.4	*41.2*	40.7	41.4	42.4	43.6	44.0	44.4	44.6	44.6	44.6
152.5°	35.9	*36.1*	35.9	36.5	37.1	37.3	37.9	37.9	38.1	37.9	37.5
155°	34.8	*34.8*	34.8	34.8	35.0	35.4	36.3	36.7	36.3	35.7	34.6
157.5°	32.4	*32.4*	32.4	32.6	33.0	33.4	34.0	34.4	34.4	34.0	33.2
160°	31.0	*31.0*	31.0	31.0	31.4	31.8	32.2	32.6	32.6	32.4	31.8
162.5°	29.3	*29.3*	29.3	29.5	29.9	30.4	30.8	31.2	31.0	31.0	30.6
165°	29.1	*29.1*	29.1	29.3	29.7	30.4	30.6	30.6	30.8	30.8	30.8
167.5°	29.9	*29.9*	30.2	30.2	30.6	30.8	31.2	31.4	31.6	31.4	31.4
170°	31.2	*31.2*	31.2	31.4	31.6	31.6	31.8	31.8	32.0	32.0	32.0
172.5°	32.8	*32.8*	32.8	32.8	32.6	32.6	32.6	32.6	32.8	32.6	32.8
175°	34.6	*34.6*	34.6	34.4	34.2	34.2	34.0	34.0	33.8	33.6	33.6
177.5°	34.8	*34.8*	34.8	34.8	34.6	34.4	34.4	34.2	34.0	34.0	34.0
180°	34.0	*34.0*	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
2.5°	12.4	12.0	11.0	10.2	9.6	8.8	8.1	7.5	7.1	6.9	6.7
5°	16.3	15.5	14.3	13.0	12.0	10.6	9.8	8.4	7.3	6.9	6.7
7.5°	21.4	20.8	20.2	20.0	19.6	17.7	15.1	13.0	12.6	12.2	12.6
10°	27.3	26.1	24.2	25.3	25.3	21.8	18.1	16.1	15.9	16.7	16.9
12.5°	32.8	31.2	28.9	28.7	26.5	21.8	17.9	15.9	15.7	15.9	16.1
15°	37.9	36.1	33.6	31.6	28.1	23.2	18.7	16.1	15.5	16.1	16.1
17.5°	40.7	38.9	35.4	31.6	27.5	23.0	18.5	15.7	14.3	13.4	13.4
20°	44.2	42.8	38.1	33.2	27.7	22.8	18.3	15.3	13.6	12.8	12.6
22.5°	47.3	45.6	40.5	35.2	28.9	22.8	17.7	15.1	13.6	12.8	12.6
25°	50.9	48.5	43.4	37.5	29.9	22.8	17.7	15.3	13.9	13.0	12.8
27.5°	53.4	50.5	45.6	39.1	31.2	23.2	18.3	15.5	13.9	13.0	13.0
30°	55.8	53.2	47.5	41.4	32.6	24.2	19.4	16.3	14.5	13.4	13.4
32.5°	60.7	57.2	50.3	43.2	33.8	25.1	20.4	17.1	15.1	14.1	14.1
35°	71.7	66.8	58.5	48.5	35.4	25.9	21.4	18.1	15.5	14.3	14.3
37.5°	88.4	82.3	72.1	58.5	39.5	27.1	22.2	18.5	15.9	14.9	14.7
40°	99.4	91.9	79.7	66.4	45.4	29.1	23.2	19.2	16.3	15.1	14.9
42.5°	112.7	103.5	87.2	68.9	48.5	33.4	25.3	20.2	16.9	15.3	15.1
45°	124.7	116.9	101.7	80.5	57.2	39.7	28.9	22.0	17.9	15.9	15.7
47.5°	149.1	137.1	116.7	94.9	68.2	49.3	35.2	24.9	19.6	16.7	16.3
50°	196.8	184.4	159.7	125.9	88.2	62.7	45.4	30.2	21.6	17.5	16.9
52.5°	267.3	244.5	217.0	171.3	125.1	90.7	64.4	42.6	25.7	18.3	17.3
55°	361.6	348.6	299.9	241.8	178.3	135.7	99.0	66.2	38.3	19.4	17.5
57.5°	469.8	443.9	399.5	327.2	238.4	172.8	133.8	98.6	56.4	22.6	18.5
60°	539.5	512.6	461.6	388.5	290.1	206.0	152.6	109.8	64.0	23.2	19.4
62.5°	584.5	546.8	482.2	396.7	305.2	219.6	161.1	104.3	54.6	22.6	20.0
65°	*591.4*	*550.5*	*482.2*	*385.5*	*291.5*	*208.4*	*155.9*	*96.4*	*43.0*	*21.6*	*20.8*
67.5°	550.5	506.1	449.4	353.5	261.6	178.7	133.8	78.6	32.6	21.0	20.6
70°	445.8	417.8	366.3	288.1	208.8	146.3	106.5	60.3	26.5	20.4	20.2
72.5°	340.6	320.5	284.4	224.5	160.9	112.9	81.3	47.5	23.8	20.0	19.8
75°	271.2	252.8	223.5	173.0	122.8	87.0	60.7	36.5	21.8	20.0	19.6
77.5°	223.7	207.6	181.1	137.1	89.6	65.0	46.0	29.5	21.4	20.0	19.8
80°	172.1	160.5	140.8	99.6	64.2	48.7	36.7	26.3	21.4	20.4	20.2
82.5°	122.0	117.6	102.7	77.6	54.0	42.4	33.8	25.9	21.8	20.8	20.6
85°	101.5	96.2	85.6	67.6	50.3	40.9	33.4	26.5	22.8	22.0	21.8
87.5°	97.8	94.3	83.9	65.4	48.3	39.1	32.0	25.9	22.8	22.4	22.6
90°	88.4	84.5	76.6	60.9	46.2	38.9	32.6	26.9	23.6	23.2	23.0
92.5°	80.3	78.0	71.1	58.9	47.7	40.3	34.4	29.3	26.7	25.9	25.9
95°	68.7	66.4	62.5	54.0	45.4	39.5	34.4	29.9	27.7	27.3	27.1
97.5°	58.5	57.0	53.8	47.1	40.3	35.4	31.0	27.5	25.7	25.1	25.1
100°	53.4	52.2	49.5	45.0	39.9	35.9	32.2	29.1	27.5	27.1	27.1
102.5°	49.7	48.7	46.2	43.0	38.5	35.2	32.2	29.5	27.7	27.3	27.5
105°	46.7	45.6	43.2	39.9	36.3	32.8	30.6	28.5	26.5	25.9	25.9
107.5°	44.4	43.4	41.4	38.1	35.0	32.0	29.5	27.9	26.3	25.9	25.9
110°	45.4	44.0	40.9	37.5	34.8	32.2	30.2	28.5	27.3	26.7	26.7

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

Scaled Data Report

REPORT NUMBER: P1045785
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	53.2	50.9	45.8	40.9	37.5	34.4	32.2	29.9	28.9	28.1	28.1
115°	58.3	56.0	50.9	45.0	39.9	35.7	32.6	30.8	29.5	30.4	29.9
117.5°	53.2	51.5	47.7	43.4	39.3	35.7	33.0	31.8	31.0	32.0	32.4
120°	58.5	55.4	52.4	47.5	39.9	34.8	33.0	32.6	32.6	31.8	31.8
122.5°	83.5	78.4	67.0	58.7	48.3	42.6	39.1	35.9	32.6	31.4	31.2
125°	116.9	107.4	92.9	78.2	64.0	52.0	42.0	35.9	32.8	31.0	30.6
127.5°	123.1	114.7	101.5	83.7	64.4	50.7	41.8	37.1	33.6	31.6	31.4
130°	103.9	99.8	88.0	72.7	57.9	47.3	41.4	37.1	33.8	32.0	31.6
132.5°	88.2	85.4	74.4	62.1	51.5	43.8	38.5	33.8	30.8	29.1	28.7
135°	75.8	74.0	64.4	55.6	47.7	41.4	35.9	31.4	28.9	27.9	27.7
137.5°	65.0	63.2	56.6	50.5	44.4	38.9	34.4	30.6	28.3	27.7	27.5
140°	58.3	56.6	52.6	46.0	40.1	34.4	31.2	28.7	27.5	27.1	26.9
142.5°	50.7	48.9	44.4	39.7	35.7	31.2	28.9	27.9	27.3	26.9	26.7
145°	48.1	46.9	41.8	37.5	33.6	31.4	30.2	28.7	27.5	26.7	26.5
147.5°	48.7	47.3	42.8	38.7	35.2	32.8	30.8	28.7	27.1	26.3	26.1
150°	43.6	43.2	40.5	37.3	34.0	31.4	29.3	27.7	26.7	26.5	26.5
152.5°	36.5	36.3	35.0	33.2	31.0	28.9	27.5	26.7	26.7	27.1	27.3
155°	34.2	33.6	32.8	31.6	29.7	28.3	27.3	26.9	27.1	27.5	27.5
157.5°	33.0	32.4	31.6	30.6	29.5	28.3	27.5	27.3	27.7	28.1	28.1
160°	31.4	31.0	30.4	29.3	28.5	27.9	27.5	27.5	27.7	27.9	27.9
162.5°	30.4	29.9	29.3	28.7	28.3	28.1	27.9	27.7	27.9	28.1	28.1
165°	30.4	30.2	29.3	28.7	28.5	28.5	28.5	28.5	28.5	28.3	28.3
167.5°	31.2	31.0	30.4	29.9	29.7	29.9	29.9	29.7	29.5	29.1	29.1
170°	32.0	31.8	31.6	31.4	31.2	31.4	31.4	31.4	31.2	31.2	31.0
172.5°	32.8	32.6	32.4	32.2	32.2	32.2	32.4	32.6	32.6	32.6	32.6
175°	33.6	33.6	33.2	33.0	33.0	33.0	33.2	33.2	33.4	33.4	33.4
177.5°	34.0	34.0	34.0	34.0	34.2	34.0	34.0	33.8	33.8	33.8	33.8
180°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0

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

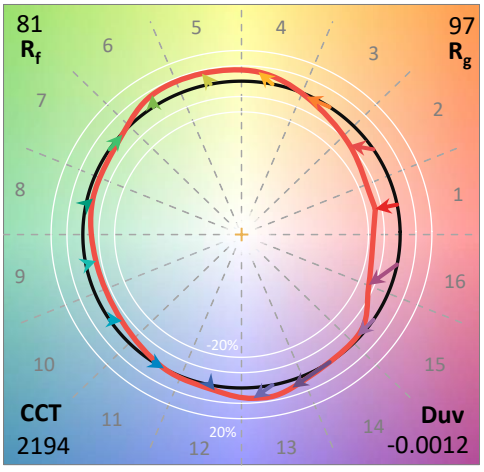
Test Information

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

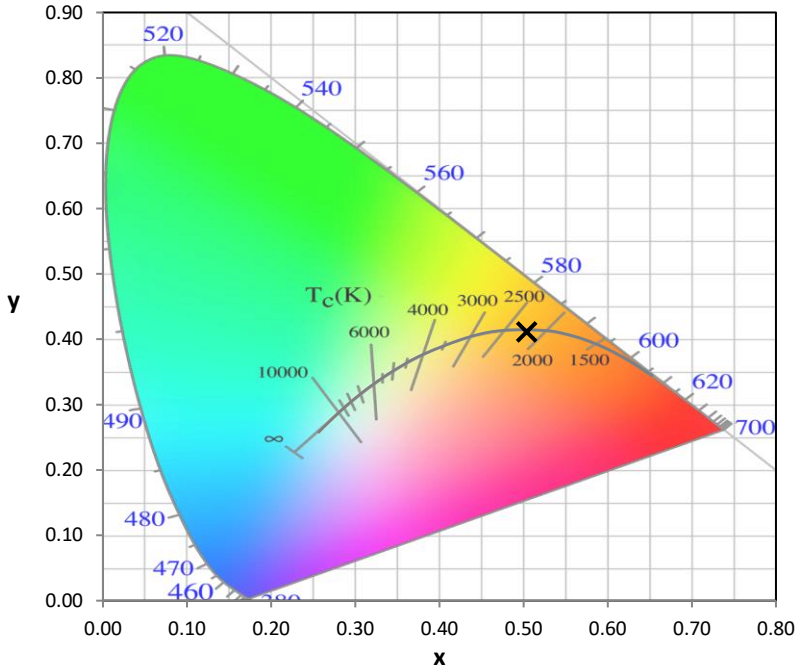
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

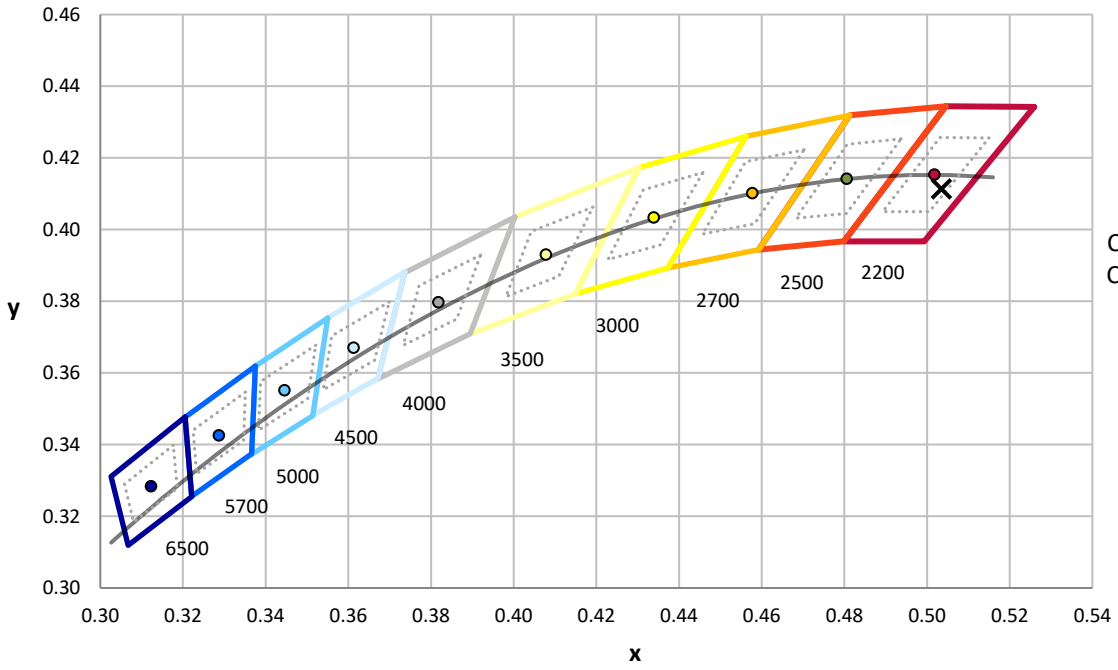
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

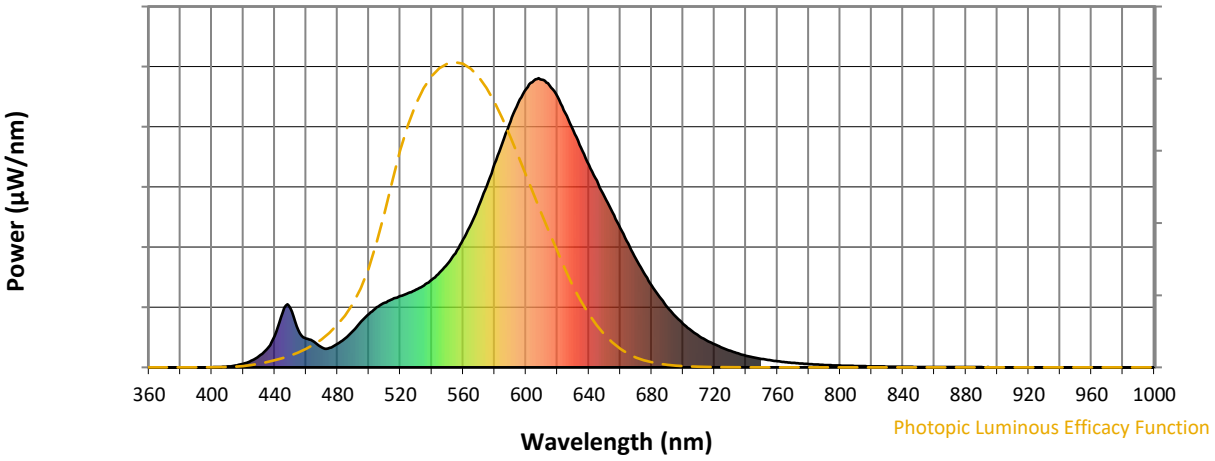


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

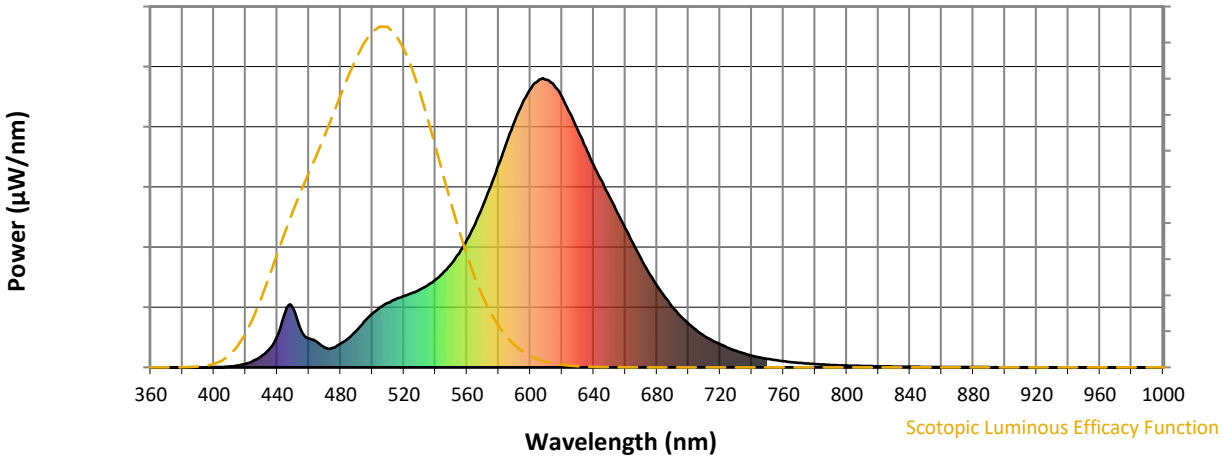


Photopic Lumens: NR

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

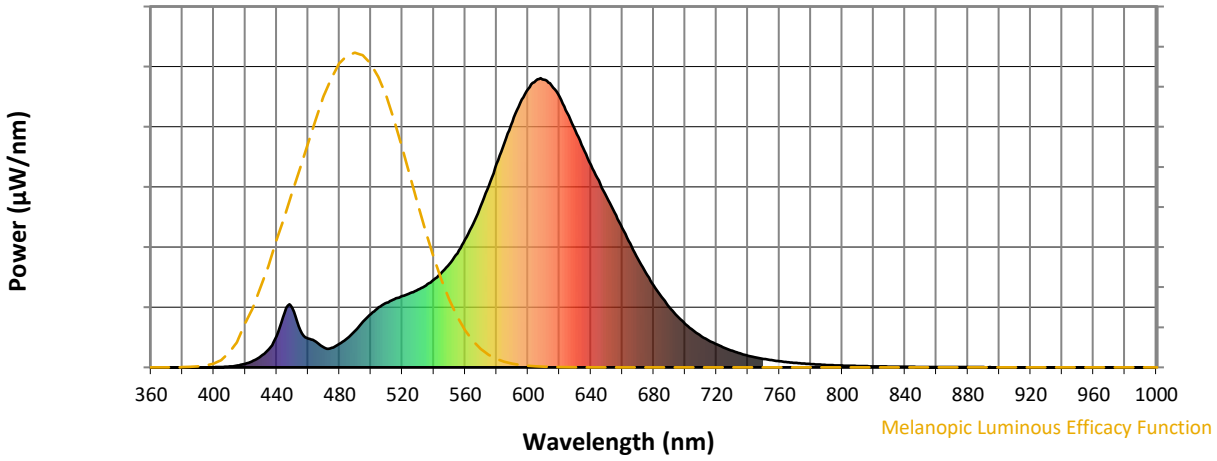


Scotopic Lumens: NR **S/P: 0.96**

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			

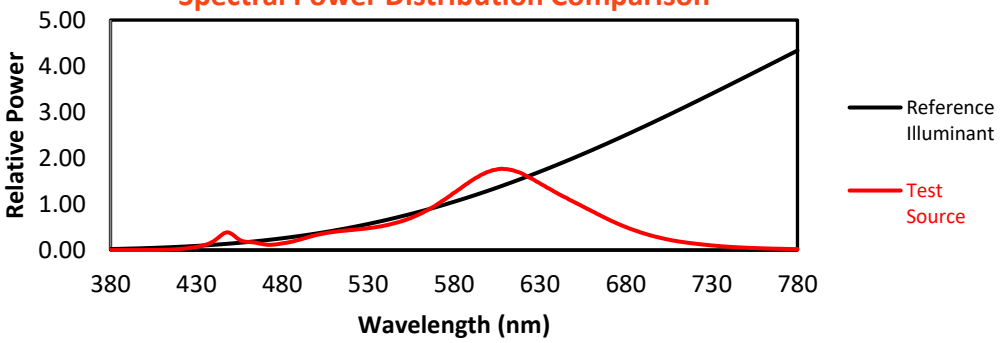
REPORT NUMBER: SP1-2501-332-7

TM-30-18

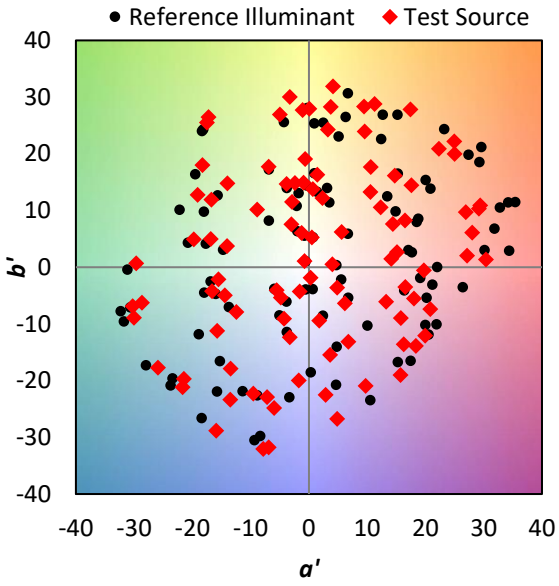
Summary

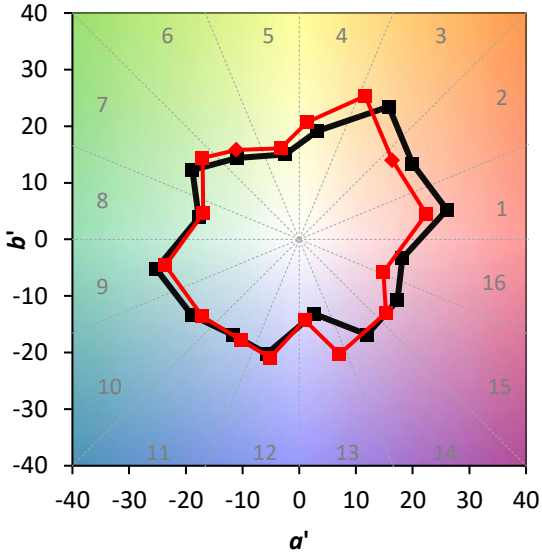
R_f = 81
R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

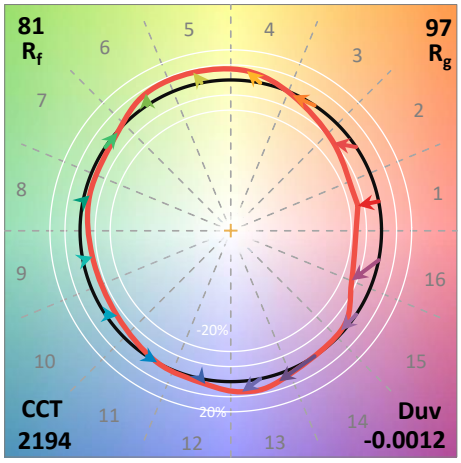
Spectral Power Distribution Comparison

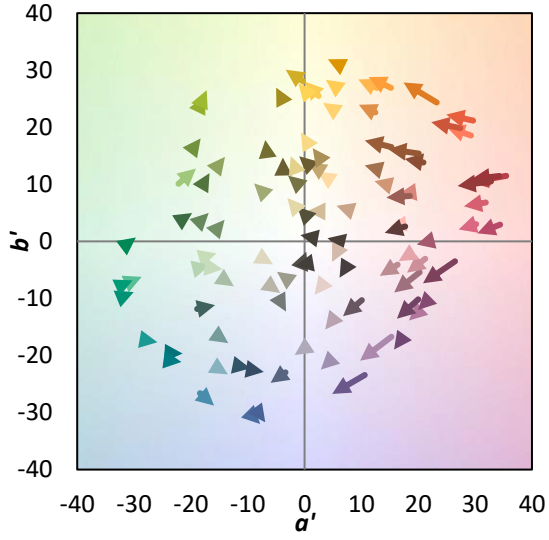


Color Vector Graphics







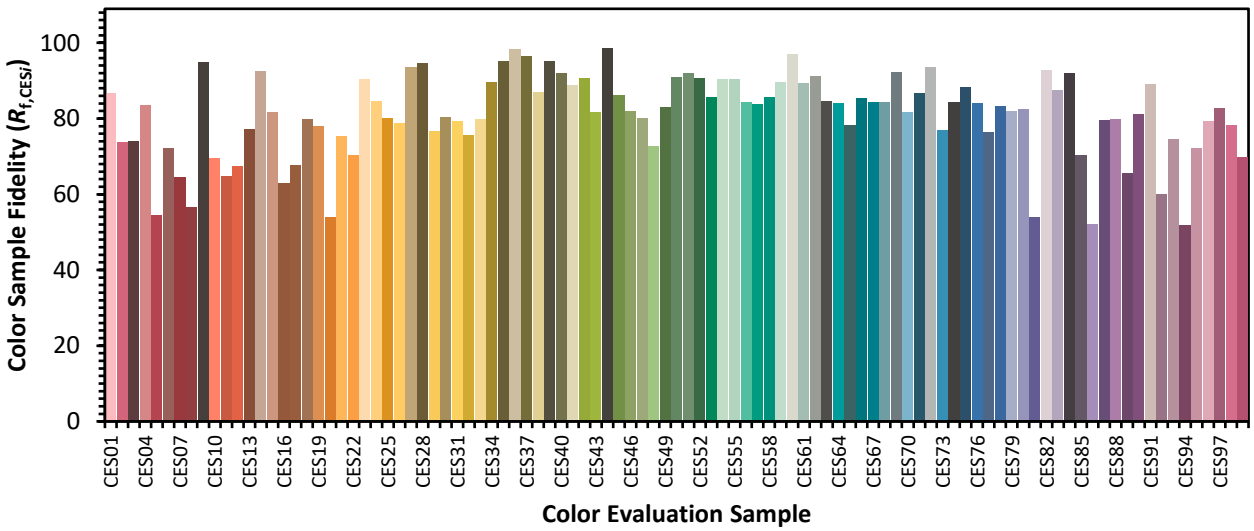


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

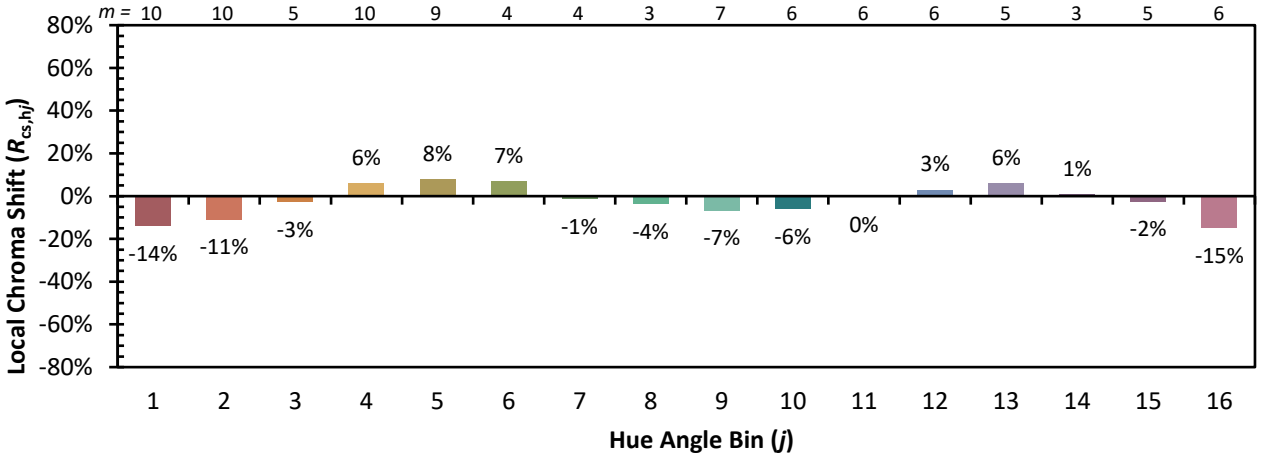
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

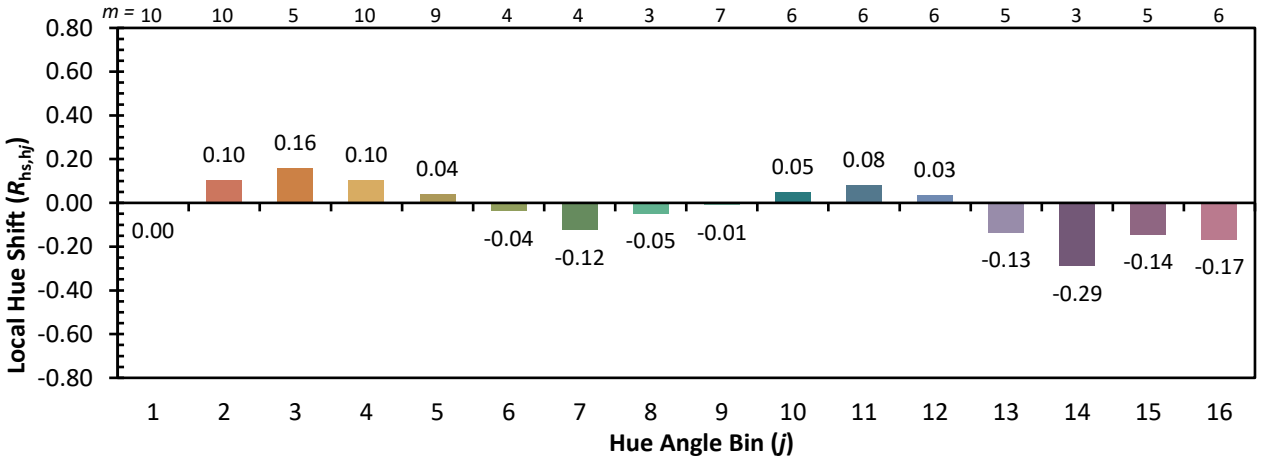


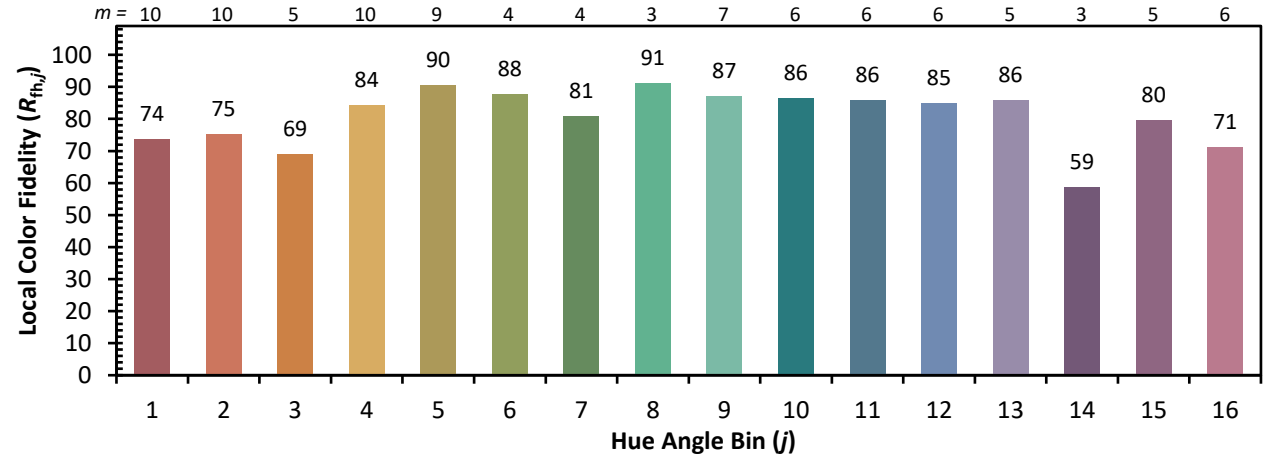
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Color Rendition by Hue-Angle Bin



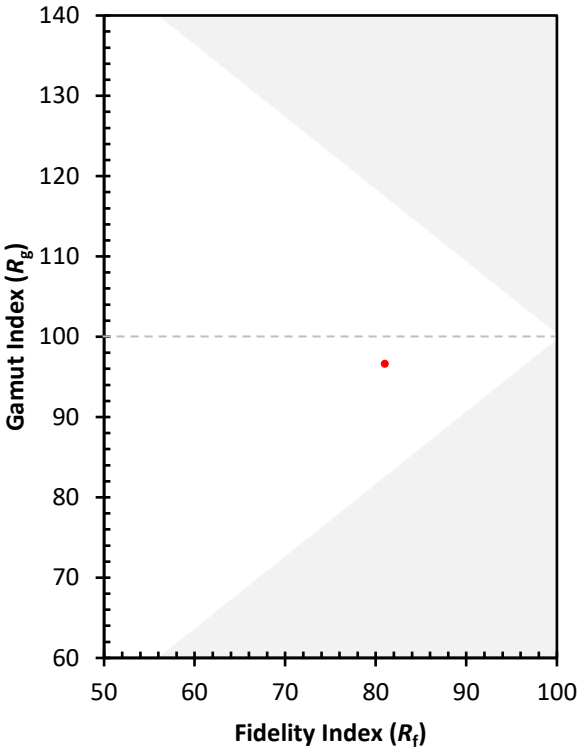


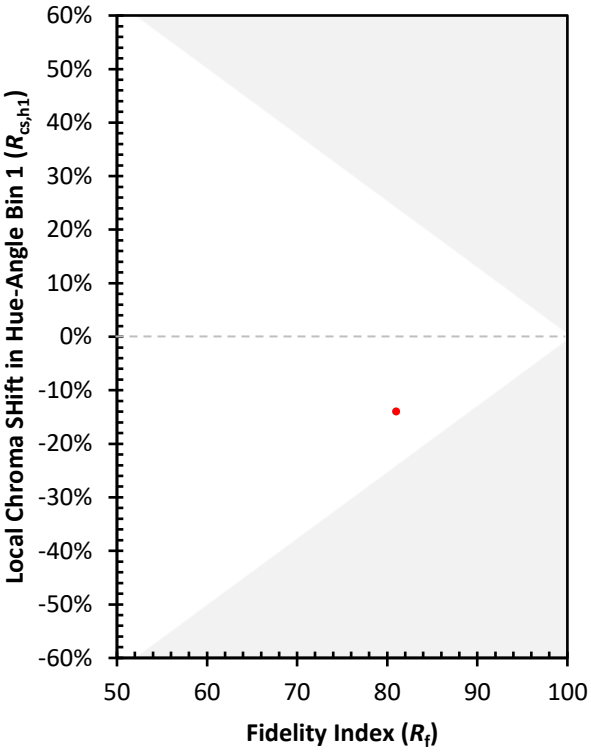


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Measure Comparisons





(END OF REPORT)