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: P1046190

Luminaire Tested: **FFX-CLB-20-722-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:	P1046190
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-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2497.4 lumens
Efficiency:	N/A
Efficacy:	126.1 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

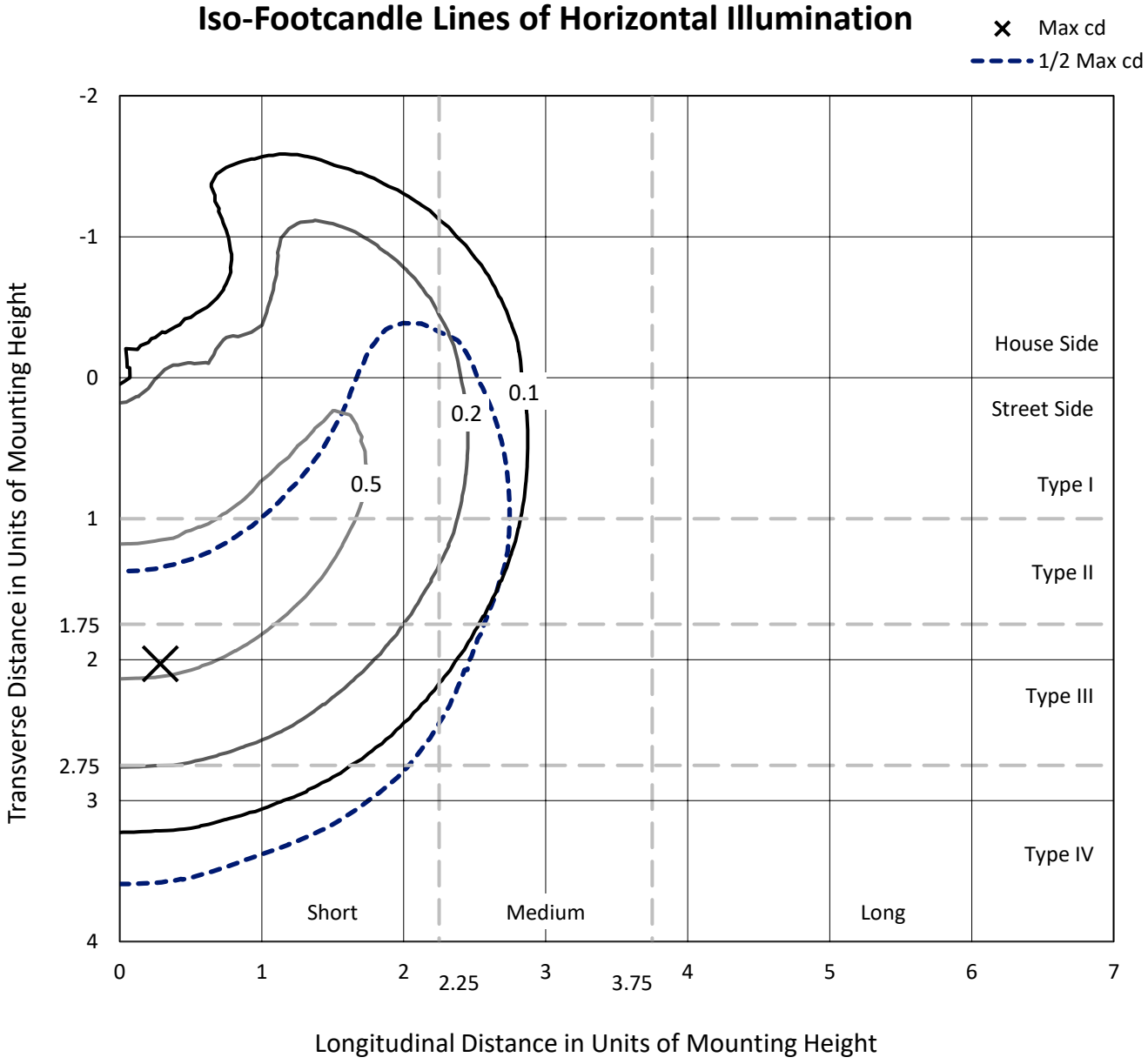


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Iso-Footcandle Lines of Horizontal Illumination



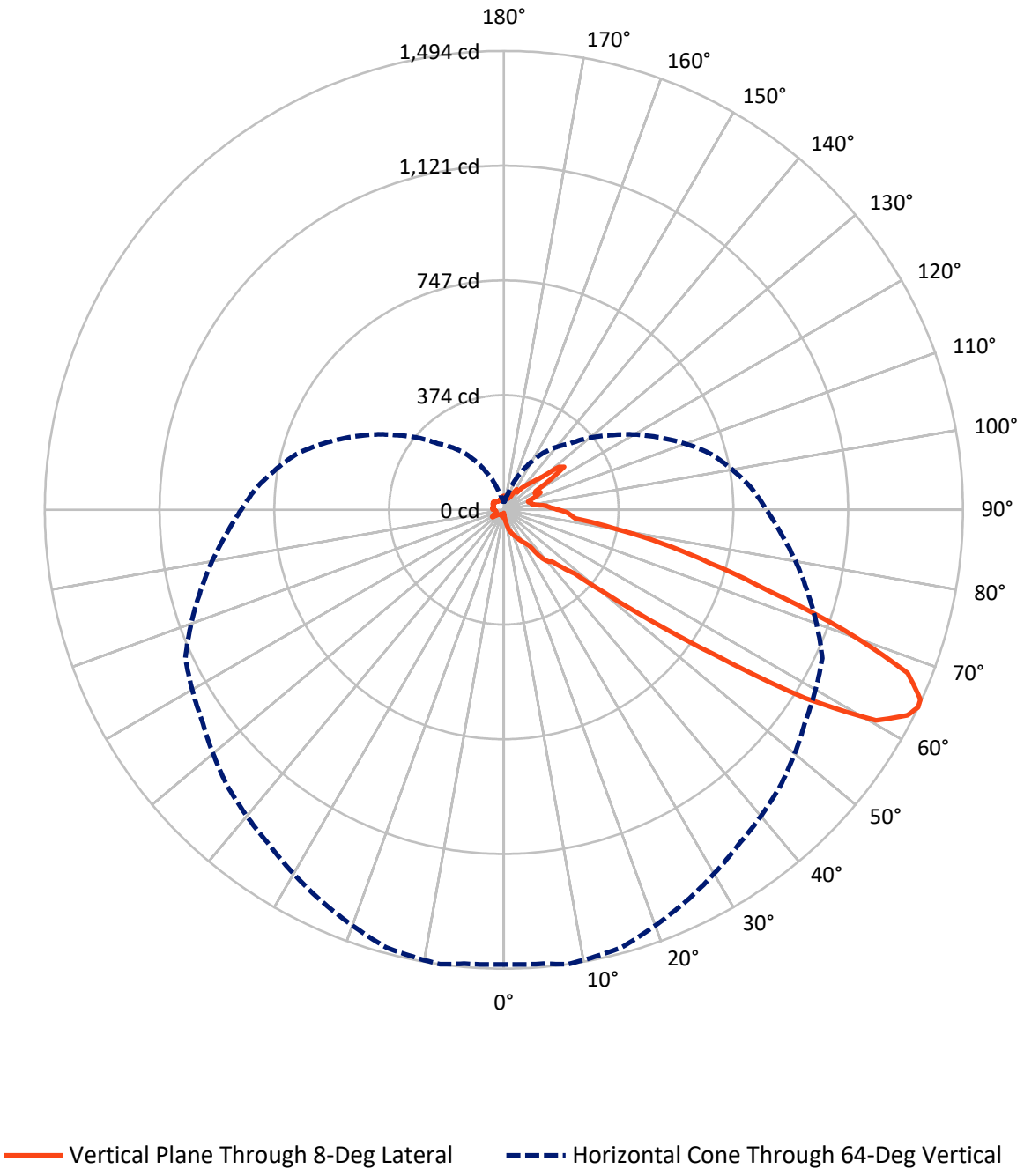
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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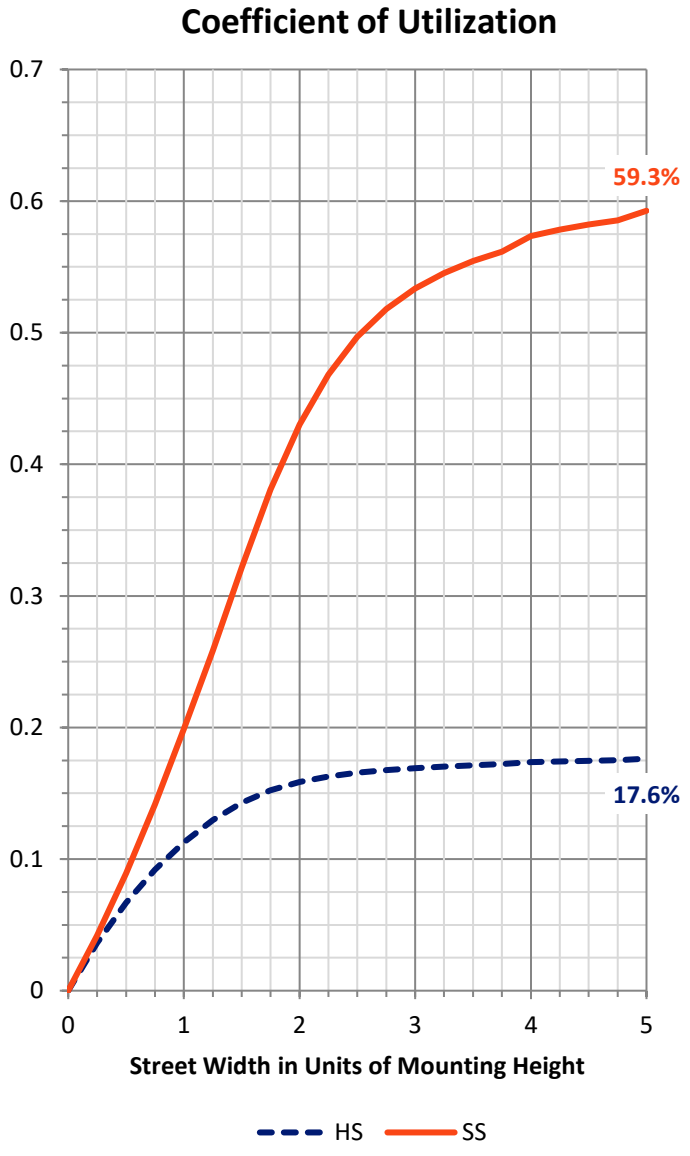
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.7	170.6	627.3
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	1543.4	326.7	1870.1
	% Fixture	61.8	13.1	74.9
Total	Lumens	2000.1	497.3	2497.4
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.1
10°-20°	13.8	0.6
20°-30°	29.8	1.2
30°-40°	59.7	2.4
40°-50°	129.2	5.2
50°-60°	447.7	17.9
60°-70°	753.0	30.2
70°-80°	409.5	16.4
80°-90°	155.0	6.2
90°-100°	97.8	3.9
100°-110°	66.0	2.6
110°-120°	71.4	2.9
120°-130°	117.5	4.7
130°-140°	72.4	2.9
140°-150°	37.8	1.5
150°-160°	19.7	0.8
160°-170°	10.7	0.4
170°-180°	4.0	0.2
0°-90°	2000.1	80.1
0°-180°	2497.4	100.0



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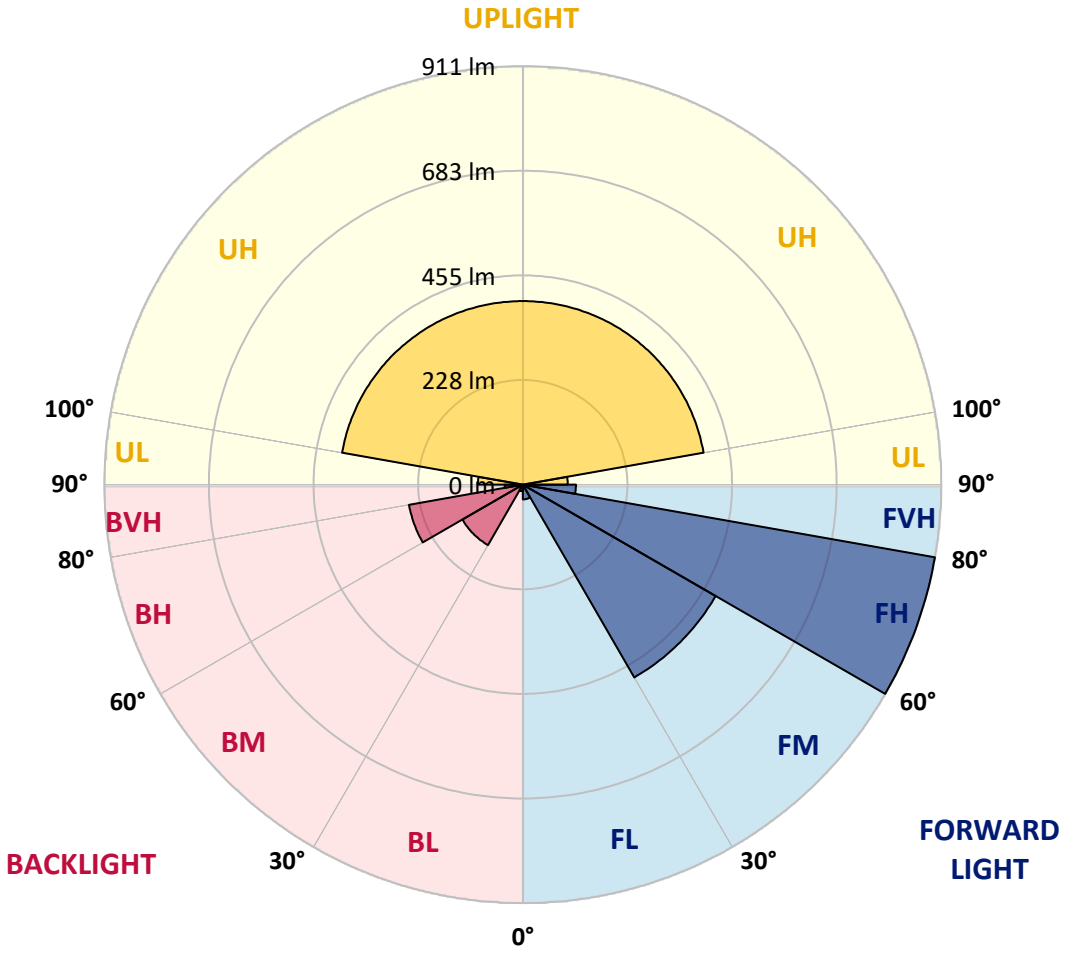
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	32.1	1.3			
FM	(30°-60°)	484.7	19.4			
FH	(60°-80°)	911.0	36.5			G1/1800
FVH	(80°-90°)	115.6	4.6			G2/225
BL	(0°-30°)	14.0	0.6	B0/110		
BM	(30°-60°)	151.8	6.1	B0/220		
BH	(60°-80°)	251.5	10.1	B1/500		G1/500
BVH	(80°-90°)	39.4	1.6			G1/100
UL	(90°-100°)	97.8	3.9		U3/500	
UH	(100°-180°)	399.5	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°	16.1	16.1	*16.1*	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
2.5°	17.4	17.4	*17.4*	18.0	18.3	18.5	18.0	17.6	17.4	17.3	16.7
5°	25.0	25.2	*25.2*	25.7	25.4	25.7	25.0	24.5	23.7	22.6	21.8
7.5°	35.4	35.4	*35.2*	35.4	35.2	34.5	34.5	35.0	33.7	31.6	29.7
10°	48.0	48.3	*48.2*	47.5	46.4	45.6	45.6	46.3	44.2	40.6	37.8
12.5°	60.8	61.5	*60.8*	60.9	59.2	58.5	57.1	56.8	54.0	50.6	45.8
15°	70.3	70.8	*71.0*	71.5	71.3	69.1	66.6	64.1	61.8	58.7	53.7
17.5°	77.9	78.0	*78.4*	78.2	77.2	74.9	72.2	69.4	65.8	62.5	57.8
20°	85.3	86.0	*85.8*	85.6	85.1	83.4	80.1	76.1	73.0	68.2	63.4
22.5°	92.9	92.4	*92.7*	92.5	92.5	90.8	87.4	82.7	78.6	73.7	69.4
25°	101.7	101.5	*101.7*	101.2	100.5	99.6	95.3	89.9	85.3	80.3	74.2
27.5°	111.0	111.2	*111.4*	110.5	109.6	108.2	102.0	96.7	91.7	85.5	77.0
30°	121.4	120.9	*121.0*	119.8	119.3	115.0	108.9	102.6	97.0	88.7	80.5
32.5°	130.9	130.0	*129.8*	128.8	127.9	121.7	115.5	109.3	102.7	94.3	87.0
35°	144.2	145.9	*145.2*	145.2	147.4	137.9	130.7	124.6	117.6	108.8	101.2
37.5°	198.4	198.0	*196.0*	193.2	185.4	178.7	175.4	165.9	154.5	144.8	132.8
40°	224.6	223.6	*221.3*	215.8	210.3	202.3	197.3	191.5	185.6	168.5	149.2
42.5°	230.8	230.0	*230.5*	237.0	244.3	238.4	218.9	197.7	187.3	175.8	166.1
45°	264.8	267.8	*268.6*	268.5	263.3	257.1	248.6	235.8	217.9	201.5	181.3
47.5°	308.0	307.7	*309.7*	307.0	311.3	300.4	289.5	276.2	257.6	235.3	211.1
50°	420.9	417.3	*417.8*	418.8	412.3	404.3	394.5	387.1	350.6	319.0	282.3
52.5°	600.3	600.8	*597.0*	596.8	577.3	562.0	544.7	545.4	491.9	449.4	396.2
55°	843.7	844.1	*830.4*	841.6	819.7	817.6	779.5	730.3	658.3	600.5	546.9
57.5°	1146.9	1157.2	*1156.0*	1136.0	1102.5	1084.4	1022.8	971.1	869.3	778.5	705.8
60°	1405.2	1400.3	*1392.4*	1377.2	1276.9	1234.8	1189.4	1145.3	1060.9	935.2	826.5
62.5°	1478.9	1475.3	*1473.9*	1466.3	1387.0	1317.6	1260.5	1188.5	1132.0	1008.8	897.9
64°	*1480.1*	*1483.4*	*1494.1*	*1475.9*	*1405.5*	*1331.4*	*1272.2*	*1198.7*	*1143.8*	*1022.2*	*906.6*
65°	1477.3	1476.6	*1490.1*	1467.1	1404.6	1330.8	1265.0	1194.5	1140.1	1018.6	904.3
67.5°	1403.3	1400.3	*1417.6*	1388.1	1333.5	1266.9	1202.3	1126.7	1078.9	962.2	851.5
70°	1151.5	1151.4	*1178.3*	1153.6	1137.4	1066.8	1000.8	931.4	880.3	784.5	692.0
72.5°	882.4	880.8	*898.8*	880.3	872.0	838.7	777.1	715.8	667.1	595.3	520.4
75°	703.2	703.9	*694.4*	676.3	669.5	654.7	627.2	590.6	549.9	484.6	415.6
77.5°	526.6	523.1	*527.3*	501.9	500.0	495.5	495.3	471.8	437.3	395.7	341.0
80°	351.0	353.1	*360.5*	353.8	355.6	354.1	363.8	338.9	312.7	288.1	259.0
82.5°	227.0	232.6	*234.6*	243.9	252.1	255.7	242.4	217.4	201.0	192.0	179.0
85°	217.9	220.1	*218.9*	213.4	210.6	206.1	206.0	198.0	189.6	172.3	151.2
87.5°	201.0	203.5	*202.5*	197.7	191.5	190.9	189.7	184.2	180.2	166.6	148.0
90°	171.4	171.6	*172.5*	171.6	170.4	169.5	162.6	159.4	156.9	145.2	132.6
92.5°	148.6	150.7	*150.2*	148.6	144.7	147.1	139.7	133.5	132.1	124.0	114.3
95°	136.6	137.9	*138.3*	135.5	131.7	130.9	125.2	120.3	118.1	112.7	101.0
97.5°	113.3	112.4	*111.7*	111.0	108.4	105.7	102.0	96.0	94.1	88.2	81.7
100°	96.7	97.0	*96.7*	96.2	93.9	92.5	89.9	85.1	83.0	79.2	74.8
102.5°	92.2	92.4	*92.4*	92.5	88.7	85.6	82.9	79.4	77.5	74.2	69.9
105°	88.0	88.0	*88.4*	88.6	84.8	80.3	76.3	74.4	73.5	69.7	65.3
107.5°	82.9	82.7	*83.2*	81.0	77.2	75.3	71.1	68.9	68.5	65.6	60.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	90.5	88.6	*88.2*	82.7	77.5	73.2	71.1	69.1	67.8	63.9	60.9
112.5°	118.4	115.8	*115.2*	110.0	91.8	90.3	88.4	87.7	87.0	81.7	76.7
115°	130.5	130.5	*132.6*	130.5	117.9	103.6	101.5	98.4	99.6	93.1	85.8
117.5°	104.5	111.7	*113.8*	107.6	108.1	98.9	84.8	79.9	77.5	75.6	78.9
120°	117.2	122.1	*120.0*	108.6	103.4	98.1	98.8	97.0	88.4	76.5	77.7
122.5°	174.7	179.2	*180.8*	181.6	184.0	180.4	172.3	160.9	152.3	137.9	129.8
125°	244.6	241.4	*241.0*	242.6	244.5	239.8	236.4	234.1	228.8	209.9	183.5
127.5°	224.6	223.1	*225.6*	225.3	230.0	222.0	220.5	221.7	219.6	209.1	193.7
130°	161.1	163.8	*165.7*	172.0	181.1	174.0	167.5	157.6	156.9	162.1	154.0
132.5°	135.2	136.4	*139.8*	148.0	154.9	151.9	142.3	132.8	132.1	136.4	135.7
135°	119.5	120.3	*120.9*	121.2	120.0	122.8	120.7	117.2	115.0	115.2	113.1
137.5°	106.7	107.0	*106.7*	103.9	100.7	100.1	105.3	105.5	103.4	99.8	97.0
140°	92.5	92.5	*91.2*	89.3	88.7	88.9	91.8	92.4	89.9	87.0	82.9
142.5°	72.3	71.5	*71.6*	74.8	80.3	79.1	75.3	70.4	69.7	73.2	71.8
145°	78.2	78.0	*77.5*	77.7	76.3	74.1	72.7	71.1	68.4	66.1	63.9
147.5°	78.9	78.2	*78.6*	77.9	77.2	76.1	75.6	76.3	75.6	74.1	71.1
150°	62.3	62.7	*63.0*	62.2	62.8	63.2	62.8	62.3	63.2	61.3	60.1
152.5°	48.7	48.5	*48.3*	48.7	48.5	49.2	49.4	49.2	48.9	48.7	46.8
155°	45.8	46.3	*45.9*	44.9	45.6	46.1	46.8	47.3	46.8	45.9	44.2
157.5°	42.1	42.1	*42.1*	42.1	42.3	42.5	43.3	43.7	43.7	43.2	42.0
160°	39.2	39.4	*39.4*	39.4	39.7	40.1	40.6	40.9	41.3	40.9	40.2
162.5°	37.5	37.3	*37.3*	37.5	37.5	38.0	38.5	39.2	39.4	39.0	39.0
165°	36.4	36.4	*36.4*	36.6	36.9	37.3	38.0	38.2	38.3	38.7	38.7
167.5°	37.6	37.6	*37.6*	37.8	38.2	38.7	39.0	39.4	40.1	40.2	40.2
170°	39.5	39.5	*39.5*	39.7	39.9	40.1	40.2	40.6	40.7	41.1	40.9
172.5°	41.4	41.3	*41.4*	41.4	41.4	41.4	41.4	41.6	41.8	41.8	41.8
175°	43.5	43.5	*43.7*	43.5	43.2	43.2	43.2	43.3	43.3	43.3	43.2
177.5°	45.6	45.6	*45.4*	45.6	45.4	45.2	45.1	44.9	44.5	44.5	44.2
180°	44.4	44.4	*44.4*	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
2.5°	16.4	15.7	14.8	13.8	12.8	12.1	11.4	10.5	10.0	9.8	9.8
5°	20.7	20.2	19.3	18.0	17.1	15.5	14.2	13.3	12.4	11.6	10.9
7.5°	29.0	28.8	29.3	30.4	29.0	25.4	21.6	19.5	19.7	20.7	21.2
10°	36.4	35.4	35.6	38.0	35.7	28.8	23.7	21.8	22.8	24.9	25.2
12.5°	44.2	42.6	41.4	40.9	35.9	28.1	23.5	21.2	21.8	23.5	23.5
15°	51.3	49.4	46.6	43.0	37.1	30.2	24.5	21.2	21.2	21.1	20.7
17.5°	55.2	53.2	48.2	42.5	36.1	29.9	24.0	20.7	19.0	17.6	17.4
20°	61.5	60.4	54.0	45.9	37.1	29.2	23.1	19.9	18.0	16.9	16.6
22.5°	67.5	64.6	56.3	48.0	38.0	29.0	22.8	19.7	18.0	17.1	16.7
25°	70.8	67.2	58.9	50.4	39.2	29.2	23.1	20.0	18.1	17.3	17.1
27.5°	73.4	69.6	61.8	52.7	40.7	29.9	24.2	20.5	18.5	17.4	17.3
30°	76.8	73.2	65.3	55.4	42.1	31.4	25.4	21.4	19.0	18.0	17.8
32.5°	83.4	78.9	69.6	57.8	43.9	33.0	26.9	22.8	19.9	18.3	18.3
35°	97.0	92.2	79.8	64.4	45.8	34.2	28.0	23.7	20.5	18.8	18.6
37.5°	125.7	119.6	104.5	80.6	50.4	35.9	29.2	24.2	20.9	19.3	19.0
40°	139.5	128.3	111.2	90.1	58.2	38.7	31.1	25.4	21.4	19.5	19.3
42.5°	156.2	146.9	123.4	92.5	64.6	45.1	34.4	27.1	22.4	19.9	19.7
45°	172.6	163.5	142.6	112.6	77.7	55.1	39.7	30.0	24.0	20.7	20.2
47.5°	201.3	186.3	161.3	131.7	95.6	69.7	48.9	34.2	26.6	21.8	21.1
50°	272.3	262.4	224.1	178.9	124.5	90.8	66.5	43.9	29.5	22.4	21.4
52.5°	367.2	348.6	305.1	249.6	180.6	134.8	97.2	65.1	36.3	23.1	21.8
55°	517.6	488.6	438.5	342.5	259.1	204.4	152.1	106.9	55.2	24.7	21.9
57.5°	678.3	652.1	592.3	473.4	351.2	260.3	200.3	150.9	77.5	28.1	23.8
60°	785.9	740.1	671.9	557.0	424.5	306.1	224.1	158.3	80.5	28.8	24.9
62.5°	847.5	800.2	699.4	567.3	437.7	316.3	234.5	145.0	64.2	28.0	25.9
64°	*854.8*	*809.2*	*699.7*	*557.5*	*423.7*	*305.8*	*227.2*	*136.0*	*55.8*	*27.6*	*26.4*
65°	849.1	806.9	691.3	545.7	404.9	292.1	218.6	127.1	49.5	27.3	26.6
67.5°	793.7	756.7	635.5	495.0	360.0	252.2	179.4	97.7	38.8	26.6	26.2
70°	642.8	625.8	522.4	399.3	284.5	201.1	141.4	74.8	33.0	25.9	25.6
72.5°	482.2	460.8	389.8	304.7	221.7	156.4	107.4	57.5	29.2	25.2	24.9
75°	386.6	365.7	309.0	240.0	164.9	116.9	79.4	43.0	27.5	25.0	24.7
77.5°	319.6	302.8	254.1	182.7	117.2	83.7	58.4	35.0	26.9	25.2	24.9
80°	245.8	243.1	198.5	132.9	83.0	62.5	47.1	32.8	27.1	25.9	25.6
82.5°	172.5	165.6	140.2	98.9	71.8	57.1	45.2	33.3	28.5	27.5	27.3
85°	142.1	136.7	120.0	95.1	68.4	55.2	44.7	34.2	29.9	29.0	28.7
87.5°	140.5	134.7	118.8	91.0	64.9	52.7	42.6	33.3	29.7	29.2	29.5
90°	127.6	123.3	108.6	83.9	64.4	53.5	44.5	36.8	33.0	31.2	30.9
92.5°	111.7	109.1	98.8	81.5	66.8	56.6	48.5	40.7	37.3	36.3	35.7
95°	97.5	96.5	88.0	74.1	61.6	53.3	45.9	39.2	36.3	34.9	34.7
97.5°	79.9	78.7	72.2	63.0	53.9	47.0	41.4	36.3	34.2	34.0	33.8
100°	73.0	72.2	67.5	61.6	54.4	49.2	44.4	40.1	38.3	38.3	38.5
102.5°	67.5	67.0	62.8	56.8	51.1	46.3	42.3	38.3	36.3	36.3	35.0
105°	63.0	62.2	58.4	53.5	47.7	43.2	39.4	36.4	34.2	33.5	33.5
107.5°	59.0	58.0	54.9	50.2	45.9	41.6	38.2	35.4	33.8	33.3	33.3

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

Scaled Data Report

REPORT NUMBER: P1046190
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	59.2	58.4	54.7	49.7	45.8	42.5	39.7	37.1	35.7	34.7	34.7
112.5°	72.9	69.2	62.8	55.4	50.9	46.6	42.3	38.7	36.9	36.6	36.3
115°	82.5	78.9	71.0	61.3	53.2	47.1	42.8	40.1	38.5	39.5	40.1
117.5°	82.9	76.3	61.1	56.5	50.6	45.6	42.6	40.9	39.9	40.9	40.9
120°	84.4	71.1	63.0	61.1	54.2	47.1	43.9	43.5	42.5	40.4	40.4
122.5°	125.5	113.4	100.5	84.1	69.7	63.0	57.1	47.0	42.1	39.9	39.7
125°	173.0	160.4	140.2	118.3	97.5	76.0	56.5	48.2	43.2	40.4	39.9
127.5°	183.9	174.0	147.4	121.2	91.8	70.8	56.6	49.5	44.5	41.6	41.1
130°	148.3	140.5	122.6	101.2	80.8	65.4	55.2	48.2	43.3	40.4	39.7
132.5°	131.9	124.6	107.0	87.5	71.6	59.7	50.6	43.7	38.8	36.8	36.8
135°	110.3	105.3	89.6	78.0	66.6	56.6	47.7	41.3	37.3	36.1	36.1
137.5°	94.6	90.6	79.4	70.3	61.5	52.8	45.1	39.9	37.1	35.9	35.7
140°	81.0	78.4	71.8	62.8	54.4	45.9	39.9	36.9	35.7	35.2	35.0
142.5°	70.4	68.5	62.7	53.3	45.1	39.9	37.6	36.8	35.6	34.4	34.2
145°	61.6	60.1	53.3	48.0	44.0	42.0	40.2	37.6	34.7	33.1	33.0
147.5°	69.2	66.8	60.9	54.7	48.3	43.5	39.7	36.3	33.5	32.5	32.5
150°	59.6	57.8	54.2	49.4	44.0	39.5	36.3	34.0	33.0	32.8	32.8
152.5°	46.3	45.4	44.4	42.0	38.5	35.6	33.5	32.5	32.8	33.5	33.7
155°	43.5	43.2	42.1	39.9	37.6	34.9	33.1	32.6	33.1	33.8	34.0
157.5°	41.4	41.3	40.4	38.3	36.3	34.5	33.3	33.0	33.5	34.0	34.0
160°	39.7	39.5	38.3	36.8	35.2	34.0	33.1	33.1	33.7	34.0	34.0
162.5°	38.7	38.5	37.6	36.4	35.4	34.7	34.5	34.5	34.7	34.9	34.9
165°	38.7	38.5	37.6	36.6	35.9	35.9	36.3	36.4	35.9	35.6	35.7
167.5°	40.2	39.9	38.8	38.0	37.8	38.0	38.5	38.5	38.2	37.6	37.5
170°	40.7	40.6	40.2	39.9	39.9	39.9	40.1	40.2	40.2	40.4	40.4
172.5°	41.8	41.8	41.6	41.6	41.8	41.6	41.6	42.0	42.3	42.5	42.6
175°	43.2	43.0	43.2	43.2	43.3	43.2	43.0	43.3	43.9	44.2	44.2
177.5°	44.2	44.2	44.0	43.9	43.9	43.9	43.9	44.0	44.0	44.0	43.9
180°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4

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: SP1-2501-332-7

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

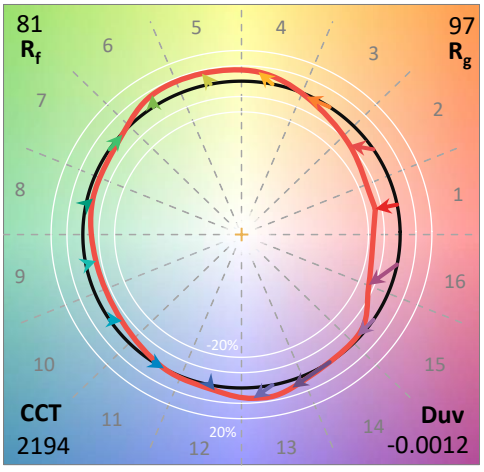
Test Information

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

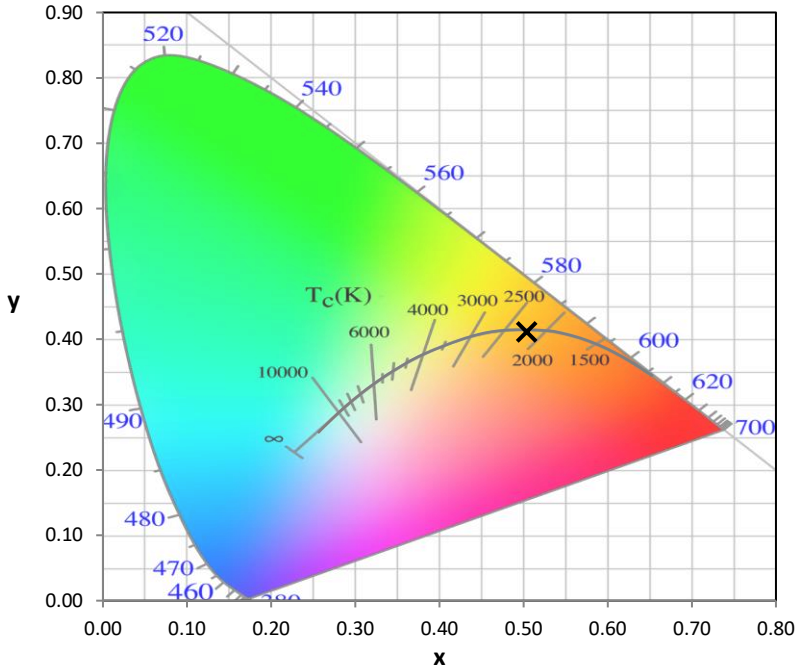
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

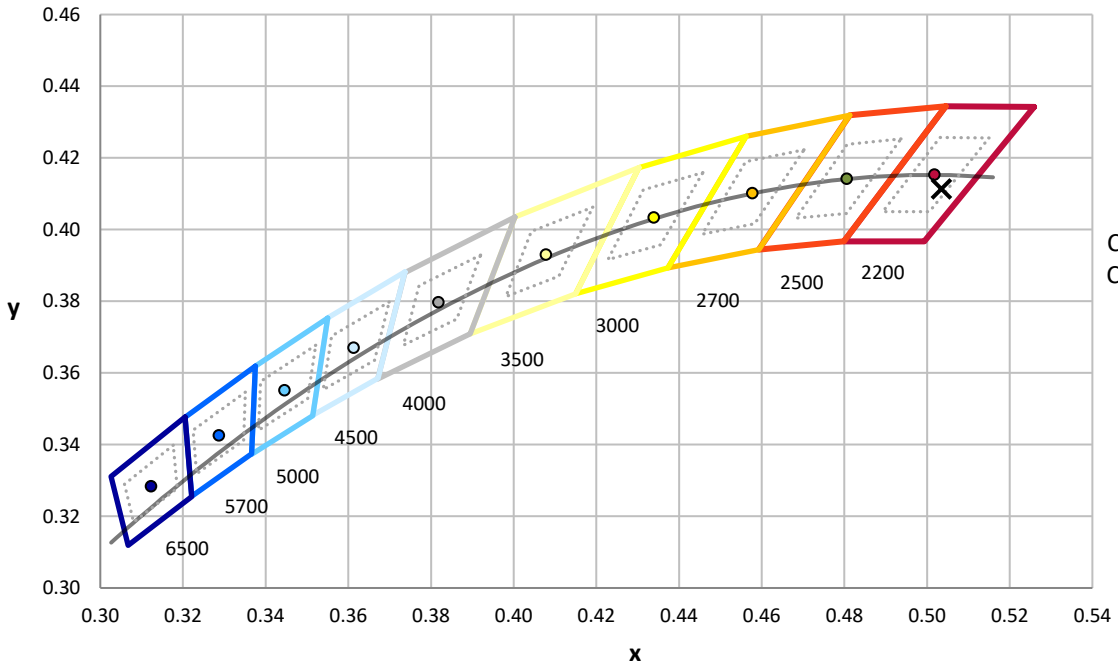
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

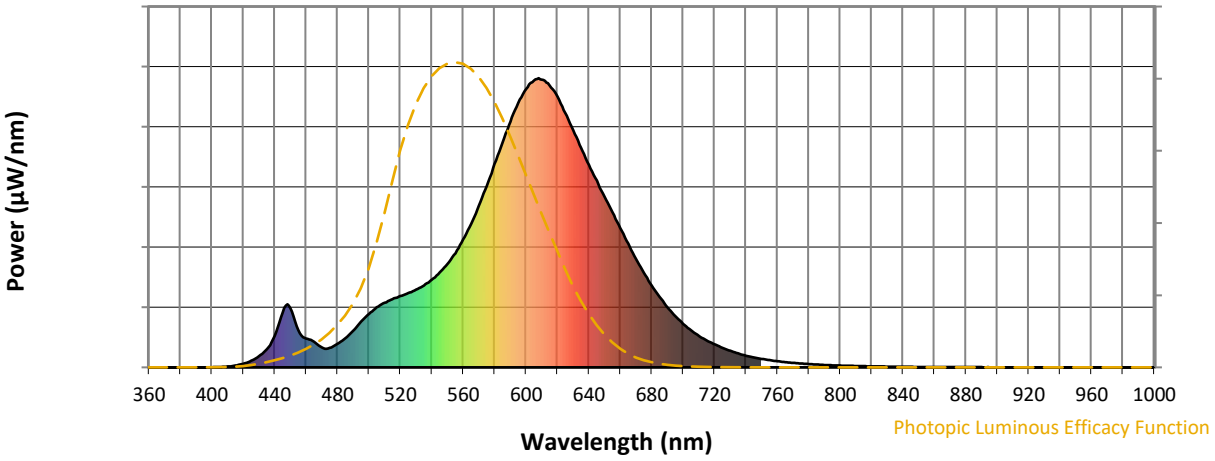


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

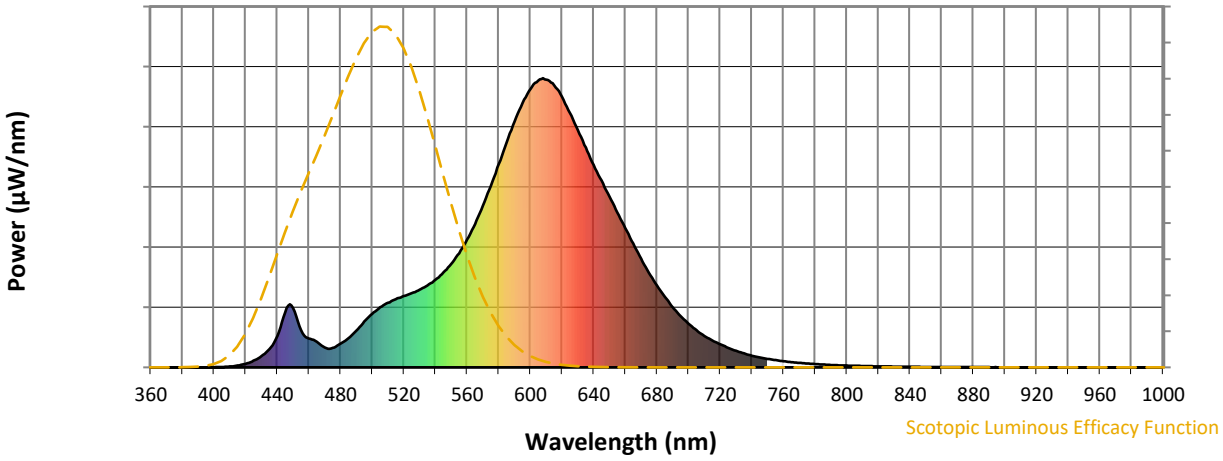


Photopic Lumens: NR

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

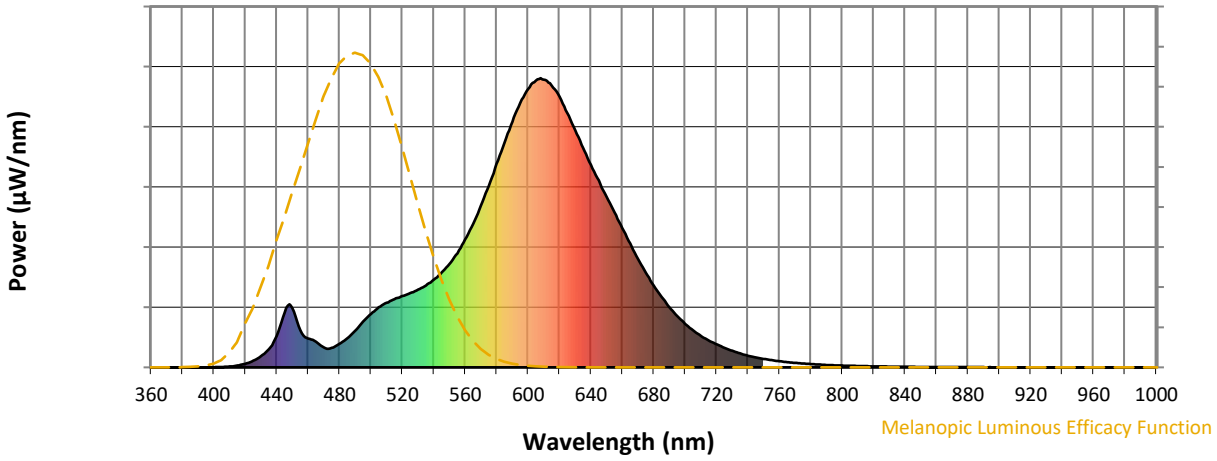


Scotopic Lumens: NR **S/P: 0.96**

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			

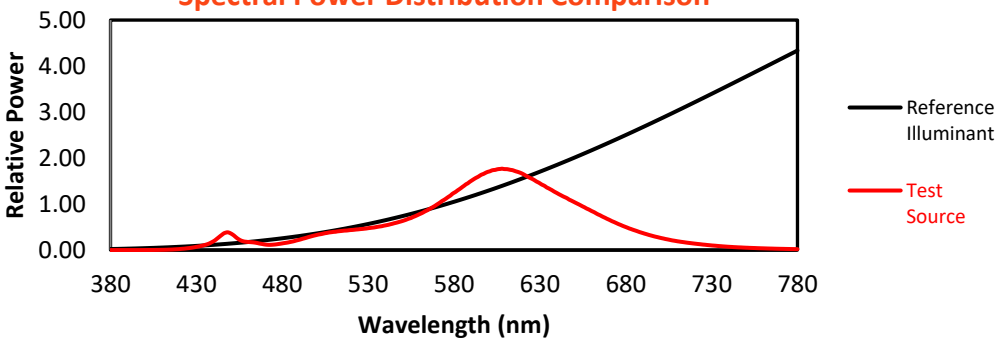
REPORT NUMBER: SP1-2501-332-7

TM-30-18

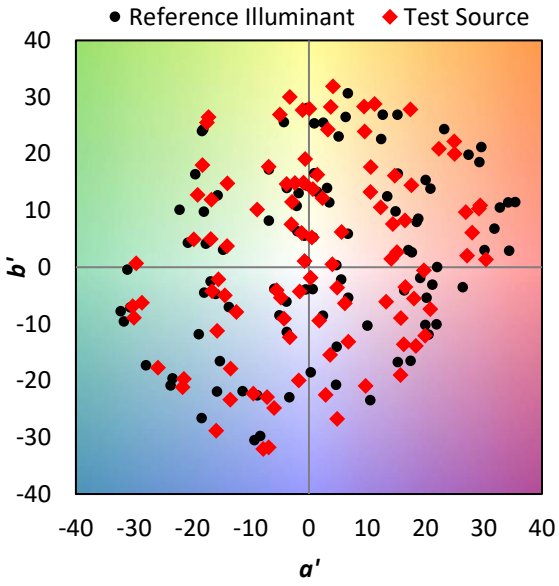
Summary

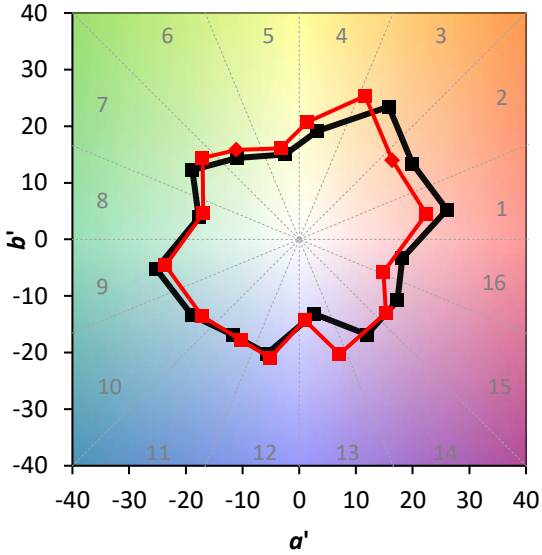
R_f = 81
R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

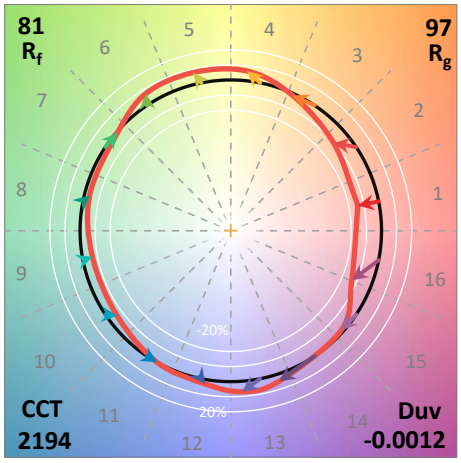
Spectral Power Distribution Comparison

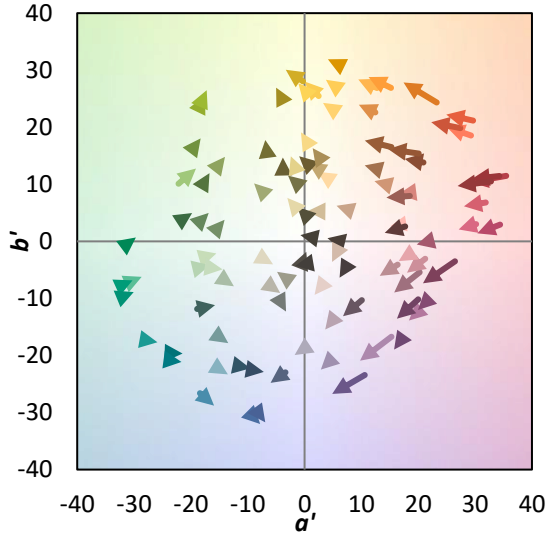


Color Vector Graphics







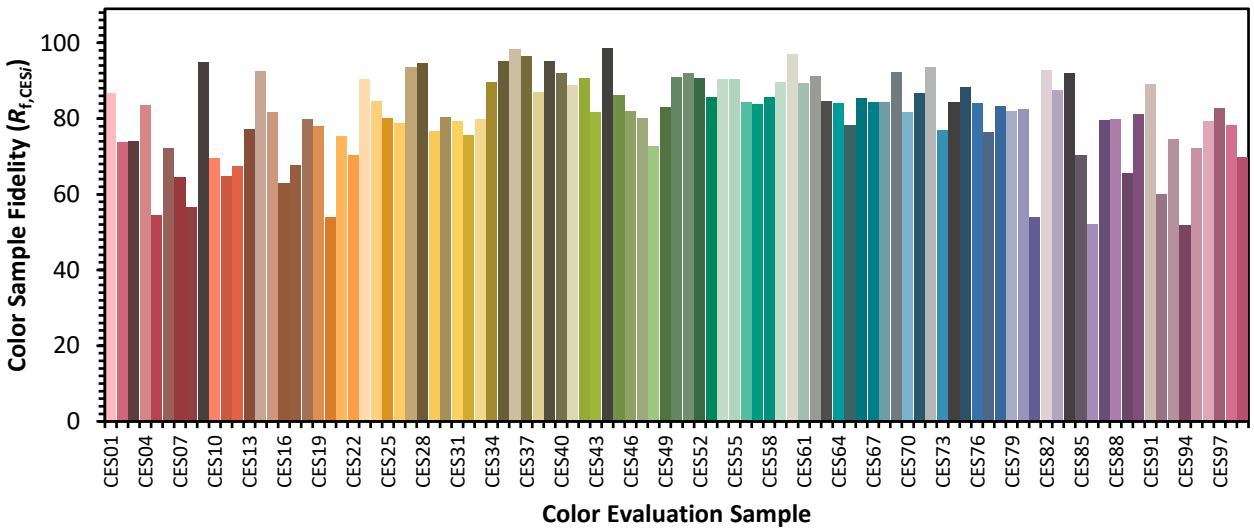


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

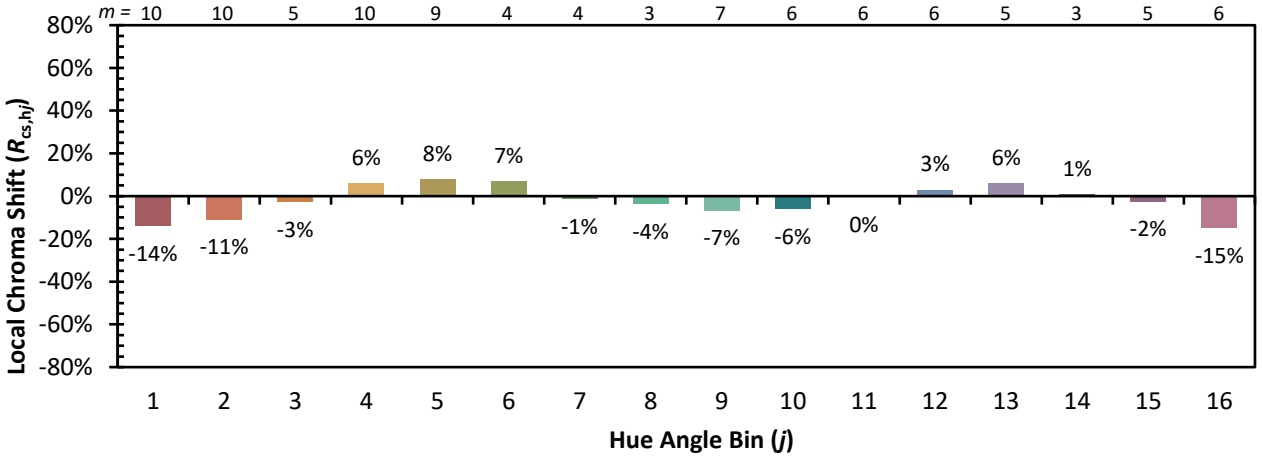
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

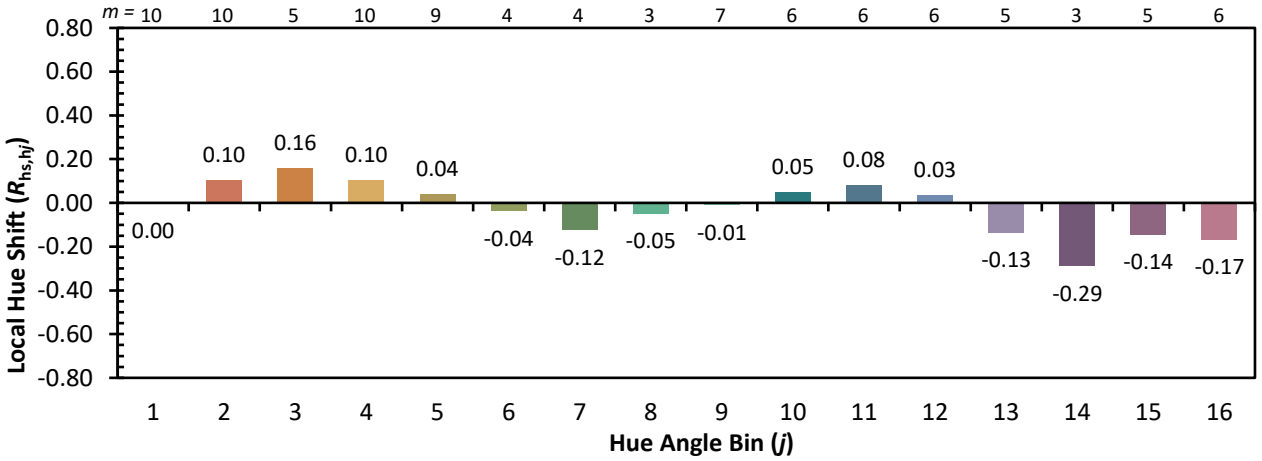


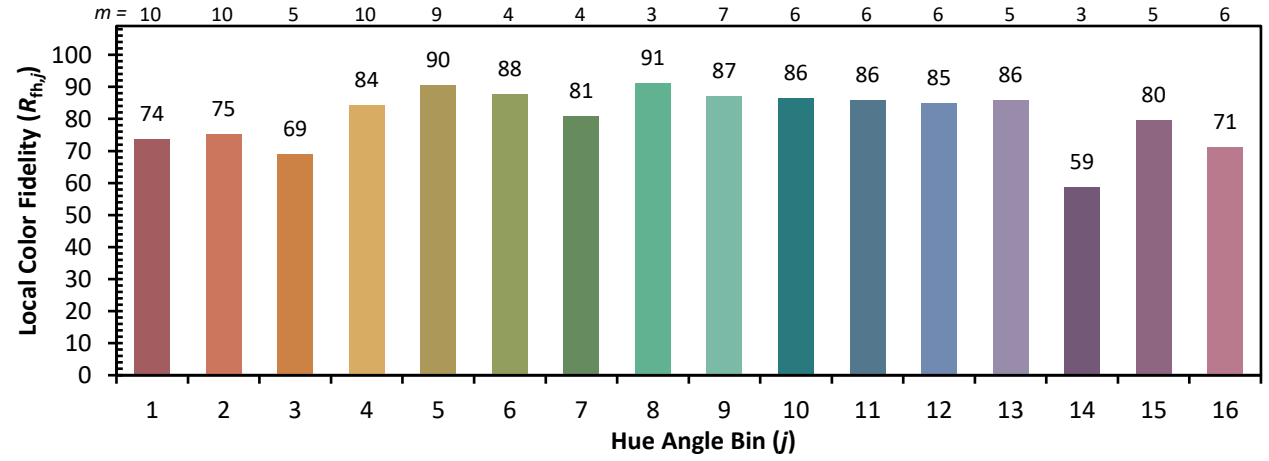
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Color Rendition by Hue-Angle Bin



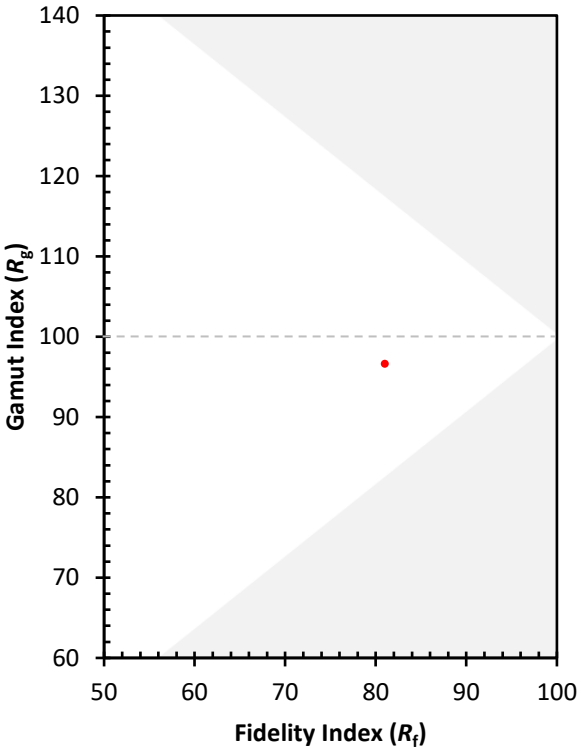


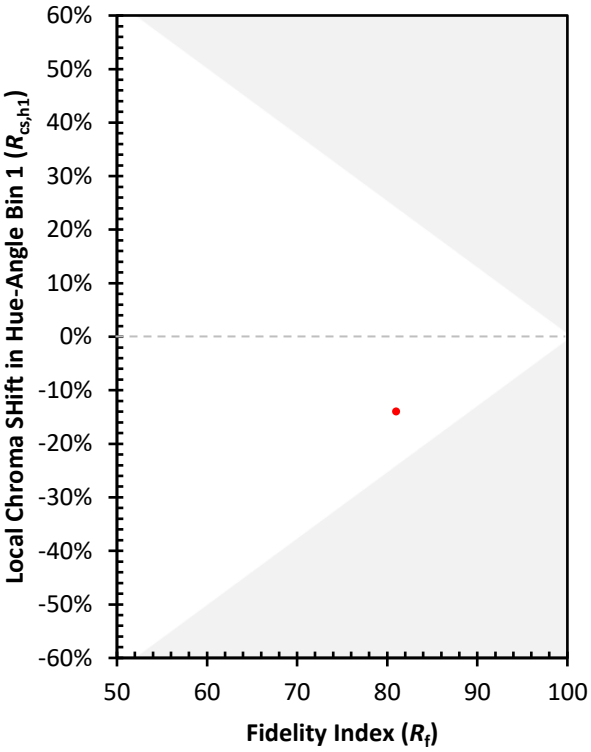


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Measure Comparisons





(END OF REPORT)