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: P1045758

Luminaire Tested: **FFX-CLB-20-730-U-FR-T5-UPLR-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:	P1045758
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-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2105.4 lumens
Efficiency:	N/A
Efficacy:	106.3 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

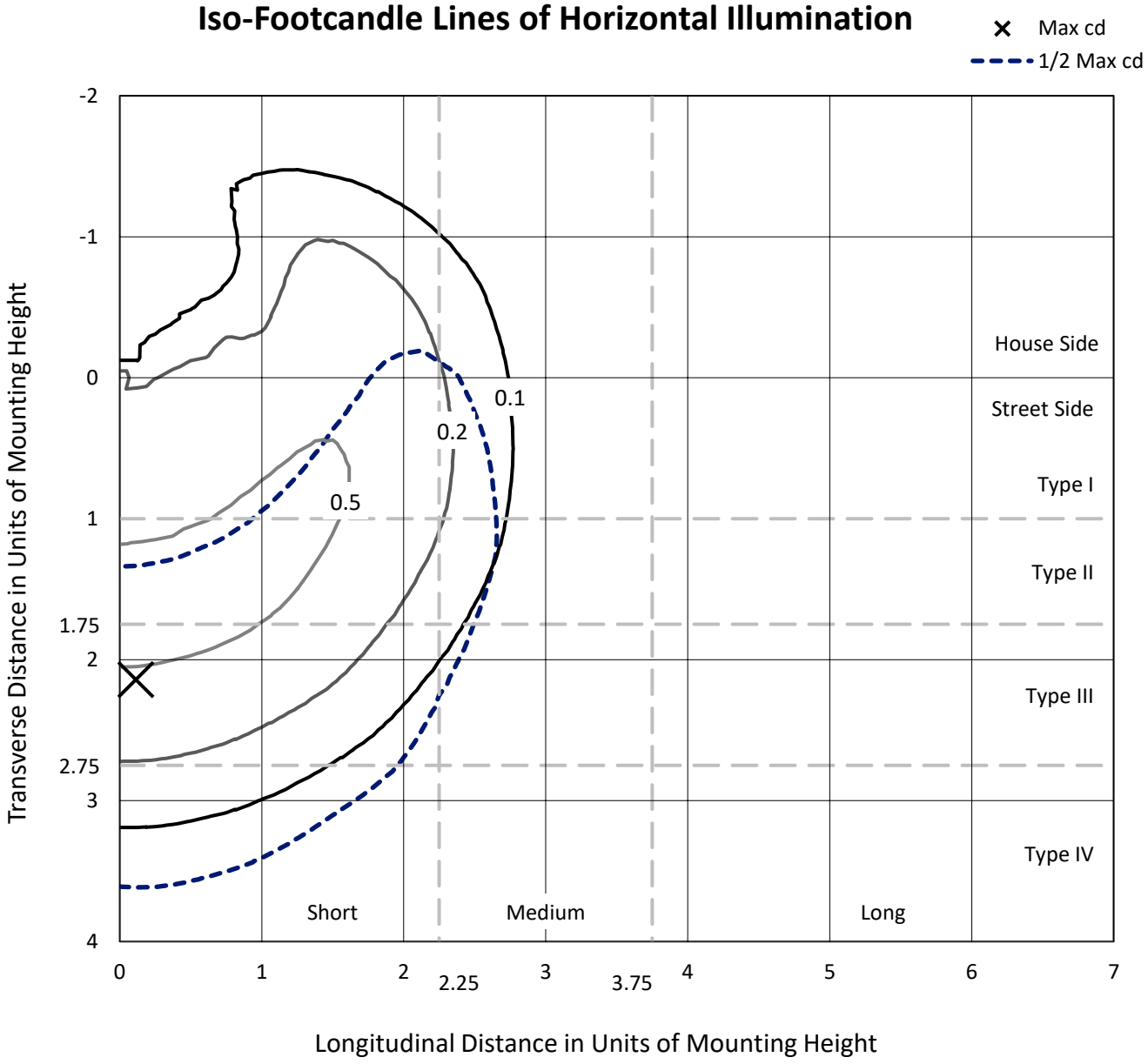


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Iso-Footcandle Lines of Horizontal Illumination



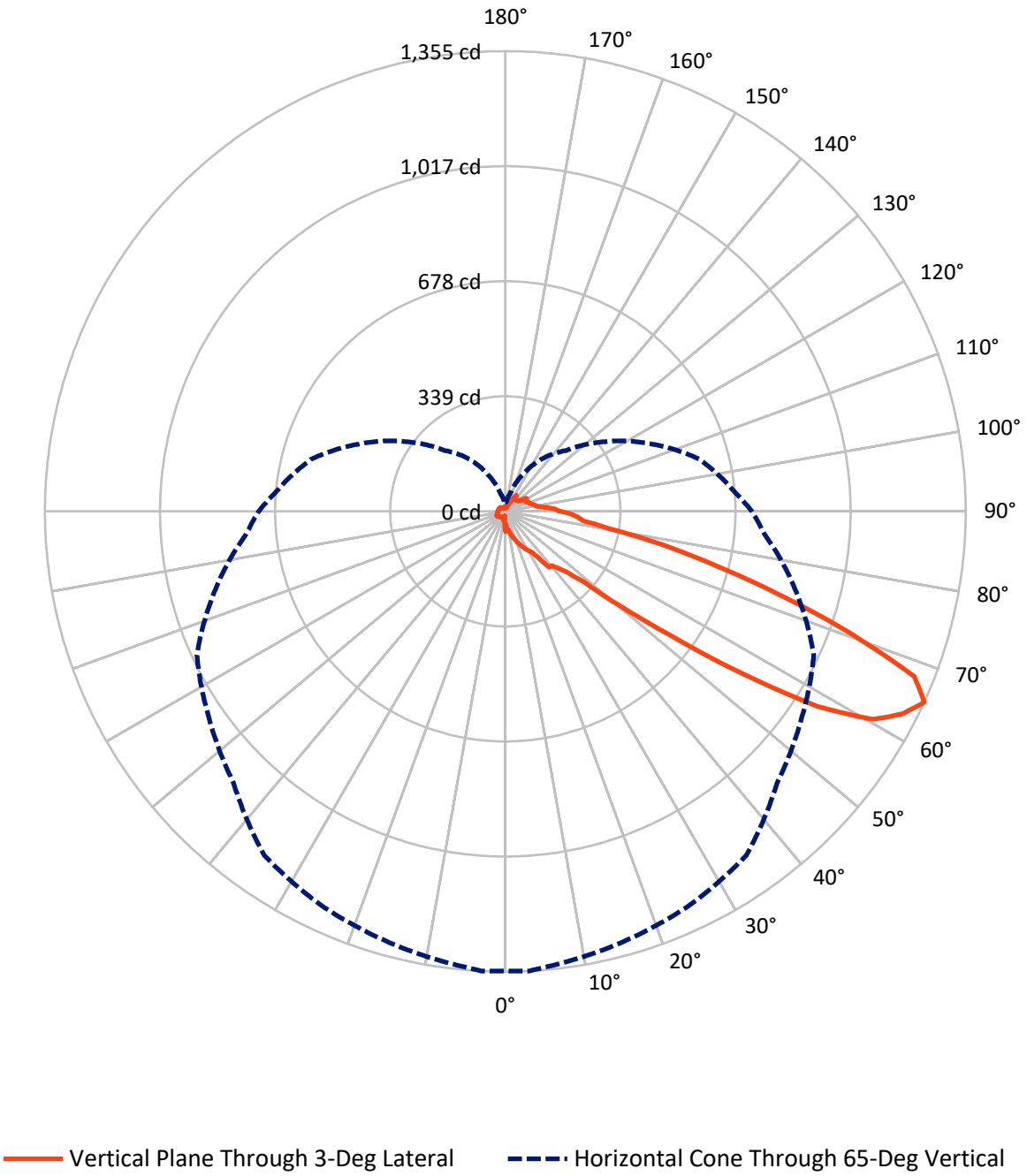
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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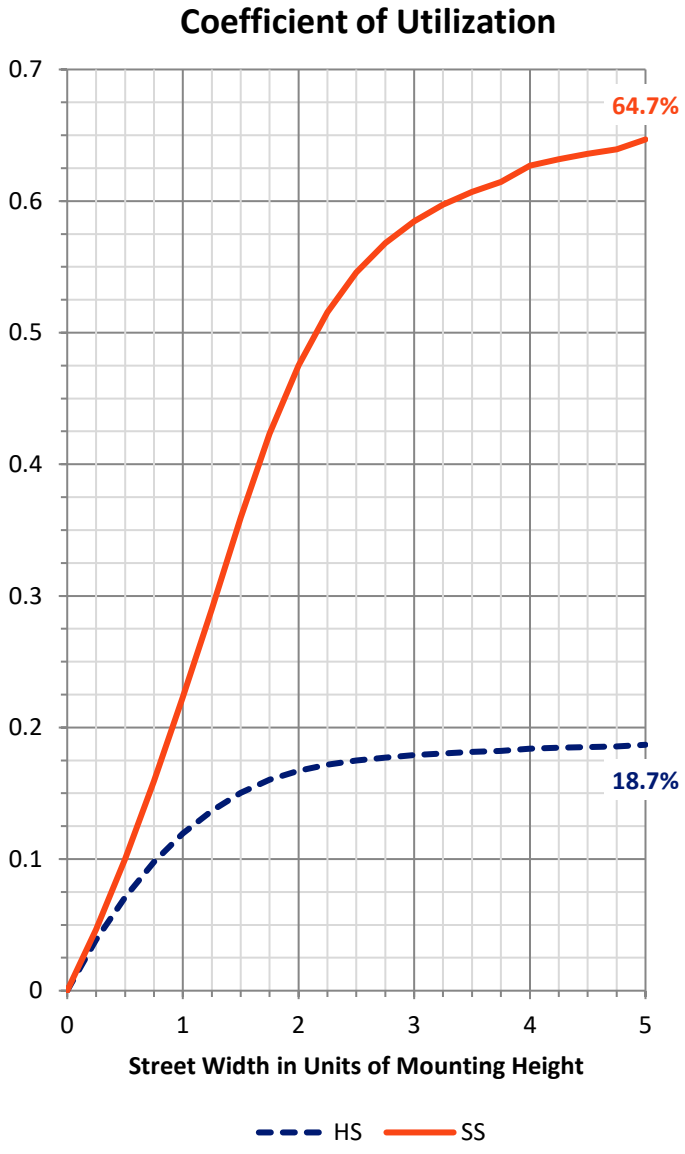
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.3	88.6	495.9
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	1420.4	189.1	1609.5
	% Fixture	67.5	9.0	76.4
Total	Lumens	1827.7	277.7	2105.4
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.2
10°-20°	14.3	0.7
20°-30°	32.0	1.5
30°-40°	64.7	3.1
40°-50°	129.9	6.2
50°-60°	417.0	19.8
60°-70°	665.1	31.6
70°-80°	361.8	17.2
80°-90°	139.0	6.6
90°-100°	82.9	3.9
100°-110°	55.0	2.6
110°-120°	43.8	2.1
120°-130°	36.5	1.7
130°-140°	25.2	1.2
140°-150°	20.3	1.0
150°-160°	9.1	0.4
160°-170°	3.7	0.2
170°-180°	1.2	0.1
0°-90°	1827.7	86.8
0°-180°	2105.4	100.0



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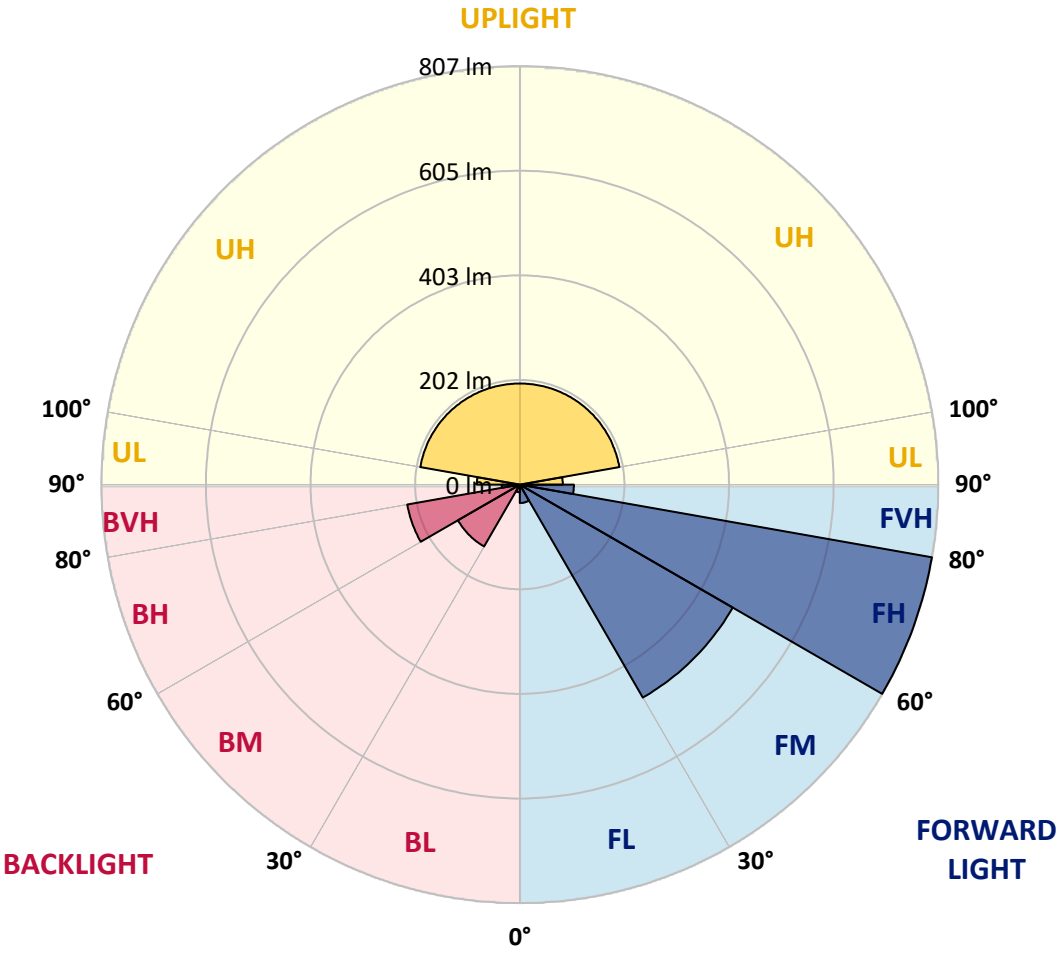
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	35.5	1.7			
FM	(30°-60°)	474.0	22.5			
FH	(60°-80°)	806.7	38.3			G1/1800
FVH	(80°-90°)	104.2	5.0			G2/225
BL	(0°-30°)	14.6	0.7	B0/110		
BM	(30°-60°)	137.6	6.5	B0/220		
BH	(60°-80°)	220.3	10.5	B1/500		G1/500
BVH	(80°-90°)	34.8	1.7			G1/100
UL	(90°-100°)	82.9	3.9		U3/500	
UH	(100°-180°)	194.8	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	38.5	38.2	38.9	42.3	51.0	53.9	51.5	47.4	46.7	51.0	54.4
5°	52.5	52.0	51.5	48.1	44.8	46.4	51.3	52.5	47.7	38.7	32.9
7.5°	53.2	52.7	53.0	53.0	52.3	49.1	45.5	47.2	51.3	45.7	36.0
10°	59.3	59.0	59.0	58.8	58.1	57.1	56.8	53.2	46.9	42.1	40.2
12.5°	69.2	69.2	68.9	68.7	68.0	66.3	64.1	61.2	59.3	53.5	47.4
15°	77.2	76.4	76.9	76.2	75.0	74.0	71.4	68.2	62.4	58.5	53.2
17.5°	84.9	84.9	85.1	83.9	82.5	81.8	78.9	74.7	69.2	62.4	57.3
20°	94.6	93.9	93.9	92.6	91.0	88.5	85.9	82.2	77.7	68.5	61.7
22.5°	103.8	104.0	104.0	102.1	99.4	97.2	93.6	89.3	84.9	75.5	66.8
25°	114.2	113.9	113.7	113.5	110.8	106.9	102.3	97.7	94.6	85.4	73.3
27.5°	123.9	123.4	123.1	124.3	121.9	118.0	111.3	105.7	102.3	92.9	79.3
30°	134.5	134.3	134.3	134.7	133.8	127.7	120.5	113.9	109.1	99.7	85.1
32.5°	143.9	143.4	143.7	145.6	145.4	137.6	131.1	123.1	117.1	109.6	93.6
35°	167.2	166.2	167.6	170.5	172.7	164.5	155.5	143.2	134.0	126.3	109.8
37.5°	209.0	209.2	209.7	205.9	197.6	191.6	187.2	177.3	165.9	152.9	133.5
40°	210.7	210.5	211.7	217.5	220.9	210.5	200.3	188.7	185.8	174.7	150.0
42.5°	230.3	228.8	230.0	235.6	240.2	233.9	225.0	205.4	194.7	184.8	164.5
45°	258.4	256.7	258.8	259.8	258.8	252.1	253.5	237.5	227.6	207.6	179.2
47.5°	301.2	308.9	310.1	310.4	320.0	310.8	305.0	289.8	267.3	243.4	211.2
50°	422.8	435.4	431.1	427.0	427.7	420.7	412.7	391.6	361.4	321.0	275.0
52.5°	603.5	598.7	599.4	602.1	608.9	577.7	564.1	532.4	483.6	435.2	368.9
55°	824.6	832.9	832.4	841.1	839.9	806.3	763.4	710.2	639.1	568.2	489.9
57.5°	1098.0	1083.5	1073.8	1057.8	1044.0	998.3	970.0	912.5	818.4	711.9	611.3
60°	1251.4	1243.4	1241.0	1218.9	1200.1	1144.0	1085.7	1023.2	949.7	823.9	709.7
62.5°	1308.9	1312.8	1309.4	1295.1	1282.6	1233.5	1135.5	1067.5	1001.7	880.8	760.5
65°	1353.2	1355.4	1347.6	1315.2	1280.9	1236.8	1131.4	1064.4	1002.0	882.9	765.4
67.5°	1299.0	1298.5	1292.5	1245.8	1187.7	1144.2	1048.4	976.3	923.3	823.9	710.5
70°	1078.6	1080.1	1081.3	1047.0	983.3	950.9	853.9	792.0	746.3	660.4	578.9
72.5°	844.5	848.8	850.8	823.9	776.7	743.4	678.5	632.1	589.5	521.3	457.2
75°	635.2	639.6	638.4	621.7	588.5	579.4	547.9	508.2	472.7	419.7	365.5
77.5°	476.5	472.9	472.0	455.7	423.1	425.5	416.6	393.8	366.2	335.0	297.3
80°	315.7	312.5	306.2	311.8	309.2	301.4	286.7	275.0	264.2	245.5	225.0
82.5°	232.2	231.3	230.0	226.4	224.0	222.1	215.5	196.9	183.8	173.2	160.9
85°	217.2	214.3	214.8	208.5	201.0	194.2	189.2	181.2	171.0	154.3	136.4
87.5°	189.7	189.7	188.2	183.8	176.3	174.7	171.0	165.5	159.4	146.6	130.6
90°	157.7	156.8	156.8	156.5	154.8	153.6	146.6	141.5	138.9	126.0	114.9
92.5°	145.6	145.1	144.2	143.0	138.1	137.2	130.1	123.6	117.8	109.8	101.1
95°	118.3	119.3	117.1	116.8	114.4	113.0	107.4	104.3	100.4	93.9	85.9
97.5°	99.9	98.5	98.7	96.5	94.1	93.1	89.7	85.1	81.5	76.4	70.6
100°	91.7	91.4	91.0	89.3	85.9	83.7	80.1	75.7	72.1	67.5	62.7
102.5°	86.4	86.1	85.9	84.4	80.6	79.3	76.0	72.6	69.4	65.3	59.0
105°	81.0	80.8	80.3	78.6	76.2	75.0	71.8	69.9	66.8	63.1	57.1
107.5°	76.2	76.2	76.0	74.0	72.6	71.6	68.5	66.8	63.4	60.2	54.4
110°	73.8	73.8	73.5	72.1	69.2	67.7	64.8	62.7	59.5	56.4	51.8

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	71.1	*71.4*	71.4	71.8	64.8	62.2	59.7	58.1	55.4	52.5	48.6
115°	65.1	*65.3*	65.1	67.5	65.1	61.4	60.0	57.1	53.7	49.1	45.0
117.5°	65.6	*65.6*	66.0	67.2	66.0	62.7	59.5	55.9	53.0	48.4	44.8
120°	74.3	*73.8*	73.8	71.4	70.9	67.7	65.6	61.7	56.8	52.3	47.2
122.5°	71.4	*71.1*	71.4	67.5	67.2	66.5	65.8	65.1	58.8	56.1	49.6
125°	57.1	*56.6*	56.4	54.9	57.3	55.6	55.2	56.8	52.7	50.3	46.7
127.5°	51.0	*50.6*	50.3	49.8	51.3	48.4	47.9	48.4	45.2	42.3	40.2
130°	48.9	*48.1*	48.1	49.8	52.0	49.6	46.9	45.0	43.8	41.8	38.2
132.5°	46.2	*46.2*	46.4	48.6	52.5	49.8	45.0	41.1	40.6	40.9	39.2
135°	45.5	*45.2*	45.5	44.8	44.5	43.1	40.9	37.7	37.0	38.9	37.0
137.5°	46.7	*46.4*	46.2	44.3	42.1	40.9	40.4	38.5	36.5	35.3	33.4
140°	46.2	*46.2*	46.0	45.5	44.0	41.6	41.1	39.2	37.3	35.1	32.7
142.5°	46.9	*47.7*	48.1	48.6	48.1	45.5	42.8	39.7	37.5	36.3	33.6
145°	57.8	*57.8*	57.8	56.8	55.2	53.0	51.0	48.9	47.2	43.3	39.7
147.5°	47.9	*47.9*	47.7	47.9	47.9	46.9	46.7	46.0	46.2	44.3	40.6
150°	33.1	*33.9*	33.9	35.1	35.6	35.1	35.1	35.6	34.8	34.6	32.7
152.5°	26.9	*26.6*	26.1	26.6	26.6	26.9	26.9	26.4	26.1	26.1	24.9
155°	23.7	*23.7*	23.7	23.5	23.0	23.2	23.5	23.5	22.7	22.3	21.3
157.5°	18.9	*18.6*	18.6	19.1	19.1	19.1	19.1	19.1	19.1	19.4	19.6
160°	16.0	*15.5*	15.7	15.7	16.0	16.2	16.0	16.2	16.2	16.4	16.2
162.5°	13.1	*12.8*	12.8	13.1	13.3	13.5	13.8	13.8	14.0	14.5	14.8
165°	11.6	*11.6*	11.6	11.9	11.9	12.1	12.3	12.6	13.1	13.8	14.0
167.5°	10.9	*10.9*	10.9	10.9	11.1	11.4	11.9	12.6	13.1	13.8	13.8
170°	10.6	*10.6*	10.9	10.9	10.9	11.1	12.1	12.8	13.1	13.3	13.3
172.5°	11.1	*11.1*	11.1	11.1	11.1	11.6	12.8	13.1	13.1	13.1	13.3
175°	11.6	*11.6*	11.4	11.4	11.6	11.9	12.1	13.3	13.8	14.0	14.5
177.5°	10.9	*10.9*	10.9	11.1	11.1	11.4	11.6	12.1	12.1	12.6	13.3
180°	12.1	*12.1*	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	56.8	61.0	55.9	50.6	46.7	48.9	51.3	49.3	47.2	47.4	43.3
5°	34.1	35.1	35.6	31.0	25.6	28.5	34.8	32.7	25.2	14.0	12.1
7.5°	32.9	31.4	31.0	34.4	31.2	20.8	16.2	14.8	19.6	23.5	24.7
10°	38.9	37.3	33.6	27.6	24.4	23.0	22.5	21.5	18.6	14.5	13.8
12.5°	44.8	42.8	39.4	36.5	32.4	27.1	23.7	22.7	24.4	27.3	27.3
15°	50.6	47.9	43.5	39.7	36.5	30.7	26.4	22.5	22.0	22.7	22.7
17.5°	54.7	51.8	46.7	41.4	35.8	30.2	25.2	21.3	19.6	19.1	19.1
20°	58.8	56.1	50.1	44.3	37.5	31.0	25.2	21.0	19.1	18.4	18.1
22.5°	64.1	60.7	53.9	47.7	39.4	31.4	24.9	21.3	19.1	17.9	17.7
25°	70.2	66.3	58.5	51.0	41.4	31.9	25.2	21.5	19.4	17.9	17.7
27.5°	75.0	70.9	63.4	54.9	43.8	33.1	26.1	22.0	19.6	18.1	17.9
30°	80.6	76.2	67.7	59.0	46.7	35.1	28.1	23.5	20.6	18.6	18.6
32.5°	89.0	83.2	73.8	62.9	49.6	37.3	30.2	25.2	21.5	20.1	20.1
35°	102.8	97.0	84.4	70.4	52.7	39.4	31.9	26.9	22.7	20.8	20.8
37.5°	124.8	116.1	102.1	82.7	57.8	41.1	33.9	28.1	23.5	20.8	20.3
40°	137.6	128.0	110.3	91.9	64.1	43.3	35.3	29.0	23.9	21.0	20.8
42.5°	151.9	140.8	118.0	94.3	68.2	48.4	37.5	30.0	24.4	21.8	21.3
45°	166.9	156.3	135.7	107.2	77.9	55.4	41.1	31.9	25.9	22.7	22.3
47.5°	194.2	181.2	154.6	125.3	92.2	66.5	49.1	35.1	27.6	23.7	23.2
50°	255.7	243.6	206.6	162.8	114.9	82.5	61.4	41.6	30.2	24.4	23.7
52.5°	338.9	317.4	275.5	220.6	160.4	115.6	82.0	56.1	34.4	25.2	23.9
55°	459.9	435.9	374.0	302.4	219.6	167.9	124.1	84.4	48.9	25.9	23.7
57.5°	580.1	551.1	499.0	401.1	295.1	214.1	165.9	123.6	71.1	29.0	24.4
60°	666.2	630.9	566.5	476.8	358.0	251.8	187.5	134.7	79.1	29.8	25.2
62.5°	717.0	672.7	591.9	484.8	373.0	267.5	196.2	127.2	68.0	29.0	26.1
65°	*726.2*	*675.9*	*591.9*	*471.0*	*357.5*	*253.8*	*189.7*	*117.6*	*53.7*	*27.8*	*26.9*
67.5°	673.5	626.5	555.6	432.5	317.1	218.0	163.3	96.8	40.9	26.9	26.6
70°	552.7	517.4	459.6	353.4	257.4	177.3	129.9	74.5	33.1	25.6	25.2
72.5°	431.3	398.7	355.4	277.2	199.1	140.5	99.2	58.3	29.5	24.7	24.4
75°	339.4	315.0	279.2	218.9	149.7	106.4	75.2	44.0	26.6	24.2	23.7
77.5°	277.7	261.7	224.7	167.2	111.8	79.1	56.1	35.1	25.4	23.7	23.5
80°	216.0	202.7	179.5	125.1	80.1	59.5	44.3	31.0	24.7	23.5	23.2
82.5°	154.1	149.5	129.9	97.2	66.8	51.0	39.9	29.8	24.4	23.2	23.0
85°	128.7	122.2	107.6	84.4	61.4	48.6	38.2	29.3	24.4	23.2	23.0
87.5°	124.3	118.5	105.2	80.6	57.8	45.7	36.5	28.3	23.9	22.7	22.7
90°	109.8	104.0	93.9	72.6	53.2	42.6	34.1	26.9	23.0	21.8	21.8
92.5°	97.2	93.9	84.2	66.5	51.0	40.9	32.9	26.1	22.5	21.5	21.3
95°	82.2	79.3	71.8	60.0	47.9	38.9	31.9	25.4	22.0	21.0	21.0
97.5°	68.2	65.8	60.0	50.8	41.4	34.6	28.8	23.9	21.3	20.6	20.6
100°	60.2	58.3	53.2	45.7	38.2	32.4	27.8	23.7	21.0	20.1	20.1
102.5°	57.1	55.2	50.1	43.3	36.3	31.0	27.1	23.2	20.8	19.8	19.6
105°	54.7	52.7	48.1	41.1	34.4	29.5	25.6	22.7	20.3	19.6	19.4
107.5°	52.3	50.1	45.7	38.7	32.7	28.1	24.7	22.0	20.1	19.4	19.4
110°	49.6	47.7	43.5	36.8	31.4	27.1	24.2	21.8	20.1	19.4	19.4

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

Scaled Data Report

REPORT NUMBER: P1045758
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	46.7	44.8	40.9	34.8	30.2	26.4	23.7	21.5	20.1	19.4	19.4
115°	43.3	41.6	38.0	32.9	28.8	25.4	23.0	21.0	19.6	19.1	19.1
117.5°	42.3	40.4	36.8	32.2	28.3	24.7	22.5	20.6	19.4	18.9	18.9
120°	44.5	41.8	38.0	33.6	28.3	24.2	22.0	20.3	19.1	18.6	18.6
122.5°	47.4	45.2	40.9	32.9	27.3	23.7	21.5	20.1	18.9	18.6	18.6
125°	44.8	43.3	39.2	30.5	26.4	23.2	21.3	20.1	19.1	18.6	18.6
127.5°	39.2	37.7	34.6	29.0	25.4	22.7	21.0	20.1	19.4	18.6	18.6
130°	37.0	35.1	32.2	27.8	24.4	22.0	20.8	20.1	19.4	18.4	18.1
132.5°	38.0	36.3	31.7	26.1	23.0	21.0	20.1	19.6	18.1	17.2	16.9
135°	35.8	34.1	29.5	24.9	22.3	20.8	19.8	18.4	16.9	15.7	15.7
137.5°	31.9	30.0	27.3	23.9	22.0	21.3	20.1	18.1	16.2	15.2	15.2
140°	31.7	29.5	27.1	23.7	21.5	19.6	18.1	16.2	14.8	14.3	14.0
142.5°	32.2	30.7	27.3	23.5	20.6	18.1	16.4	15.0	14.0	13.3	13.3
145°	37.3	35.1	30.7	25.6	22.3	19.4	16.9	15.0	13.5	12.3	12.1
147.5°	38.5	36.3	32.4	28.1	23.7	20.1	16.7	14.3	12.3	11.4	11.1
150°	32.2	30.7	28.5	25.2	21.3	17.7	14.8	12.6	11.4	10.9	10.6
152.5°	24.4	23.9	22.5	20.1	17.4	15.0	13.1	11.9	11.1	10.9	10.6
155°	20.8	20.6	19.1	17.2	15.0	13.3	12.1	11.4	10.9	10.9	10.6
157.5°	19.4	18.9	17.7	15.7	13.8	12.8	11.6	11.1	10.9	10.9	10.9
160°	16.2	15.7	14.8	14.0	12.8	12.1	11.4	11.1	10.9	10.9	10.6
162.5°	14.5	14.0	13.5	12.8	12.6	12.3	12.1	11.6	11.4	11.1	11.1
165°	13.8	13.5	12.8	12.6	12.6	12.8	12.8	12.3	11.9	11.4	11.4
167.5°	13.5	13.3	12.8	12.6	13.1	13.3	13.5	13.1	12.6	11.9	11.6
170°	13.5	13.5	13.3	13.1	13.3	13.5	13.8	13.8	13.5	13.1	13.1
172.5°	13.5	13.8	13.5	13.5	13.5	13.5	13.5	14.0	14.0	13.8	13.8
175°	14.5	14.5	13.8	13.5	13.8	14.0	14.3	14.0	14.0	14.3	14.3
177.5°	13.3	13.8	14.8	15.0	15.5	15.5	15.0	14.8	14.0	13.8	13.8
180°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-9

Test Date: 03/26/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

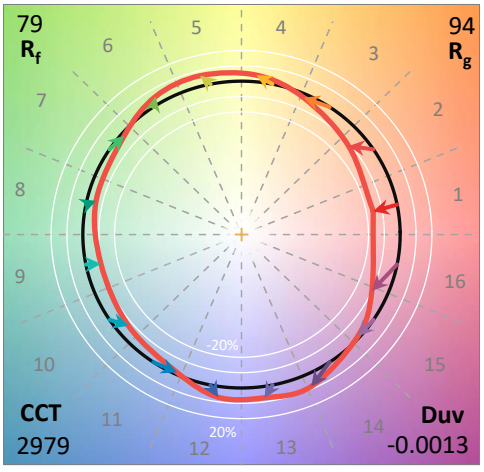
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

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



Test Conditions

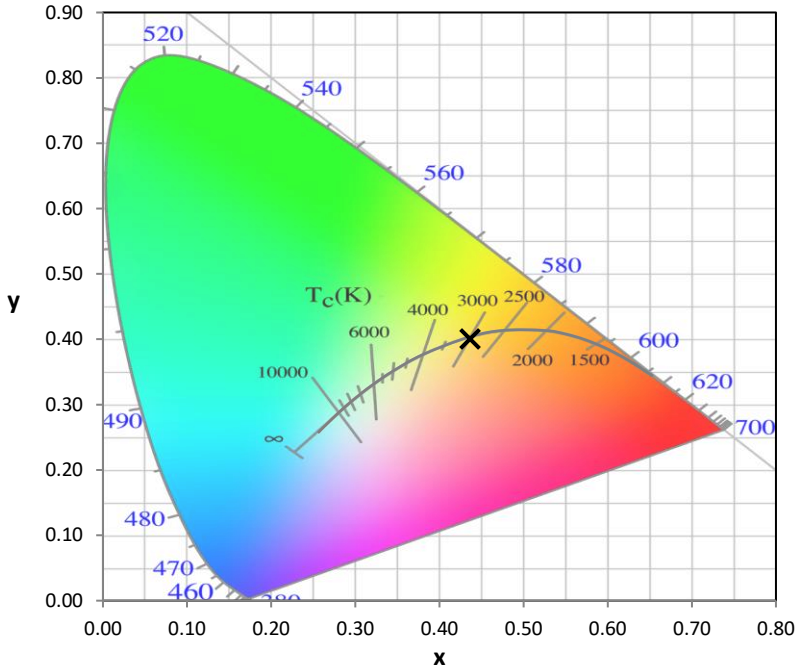
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

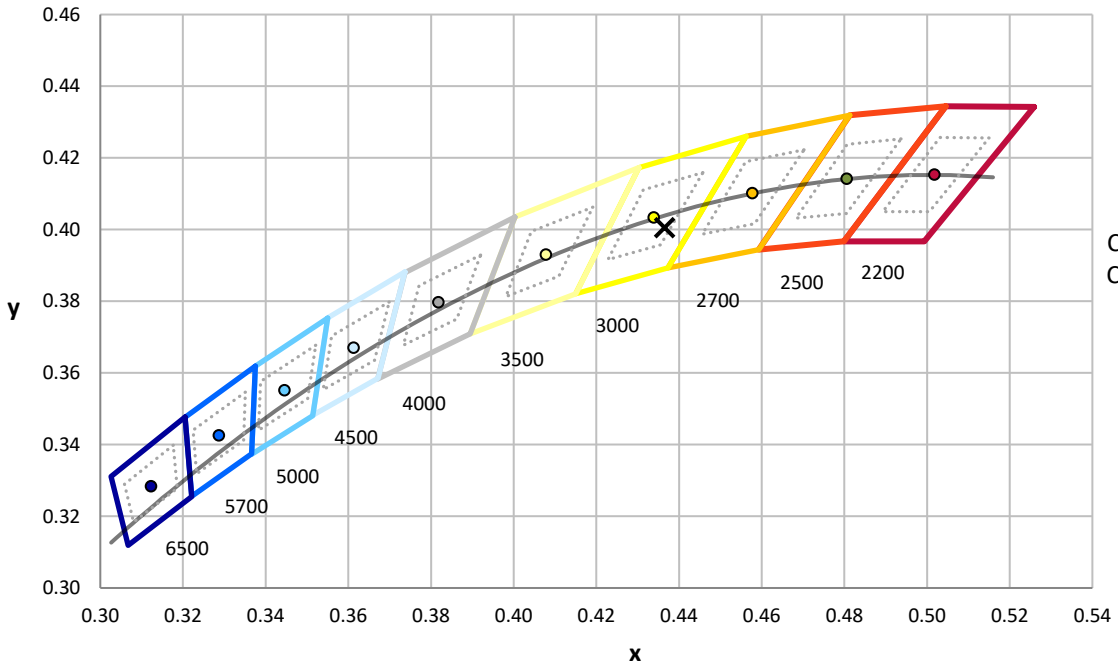
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

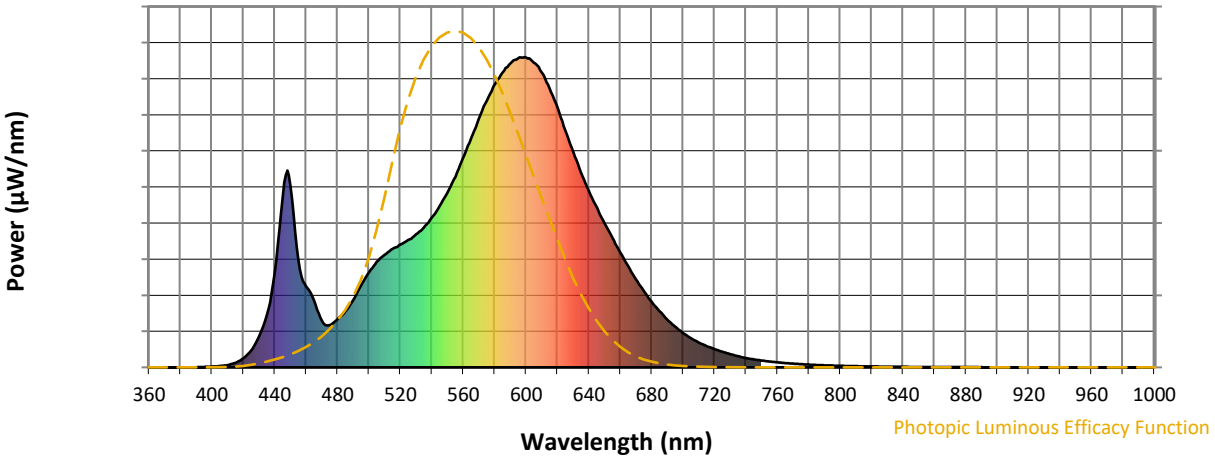


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

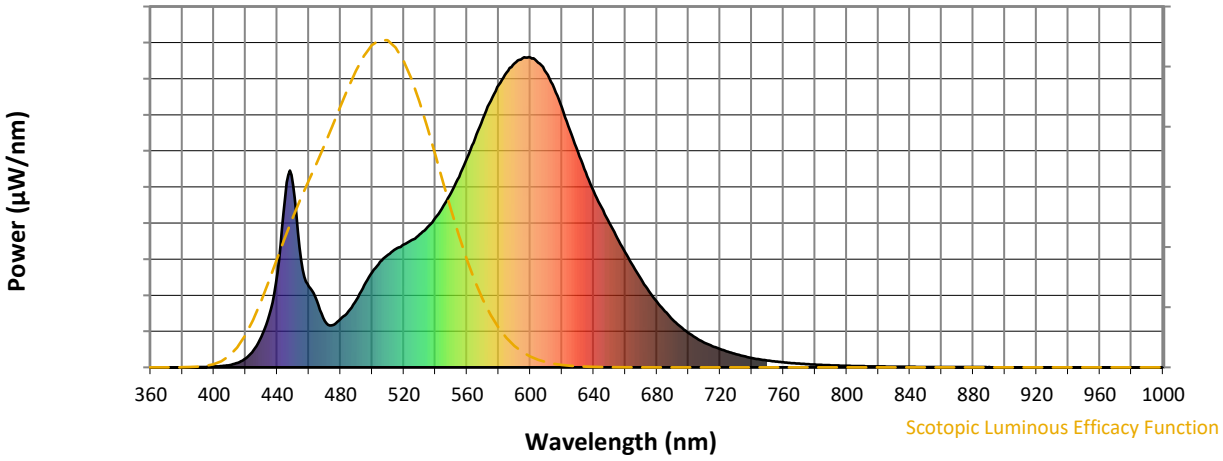


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

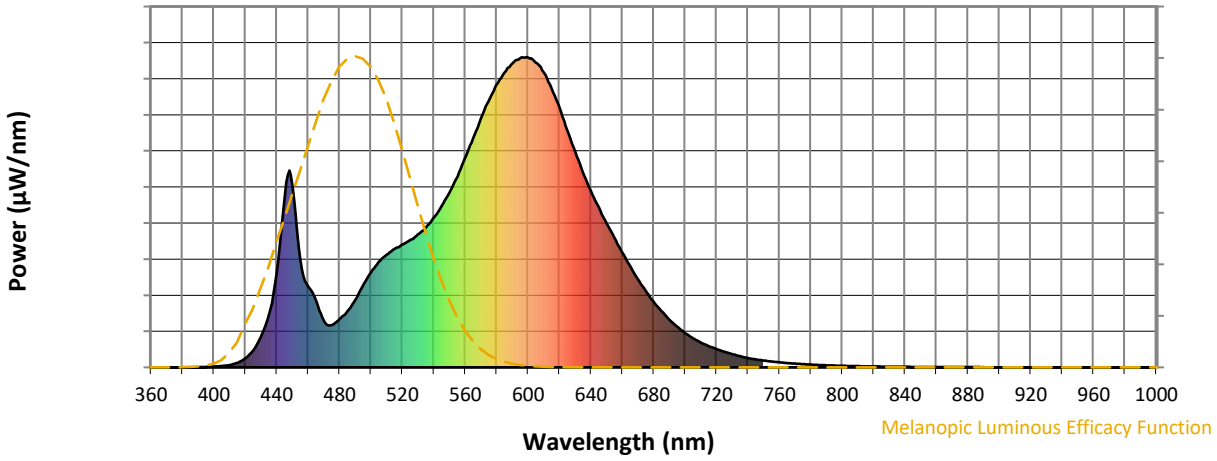


Scotopic Lumens: NR **S/P: 1.29**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

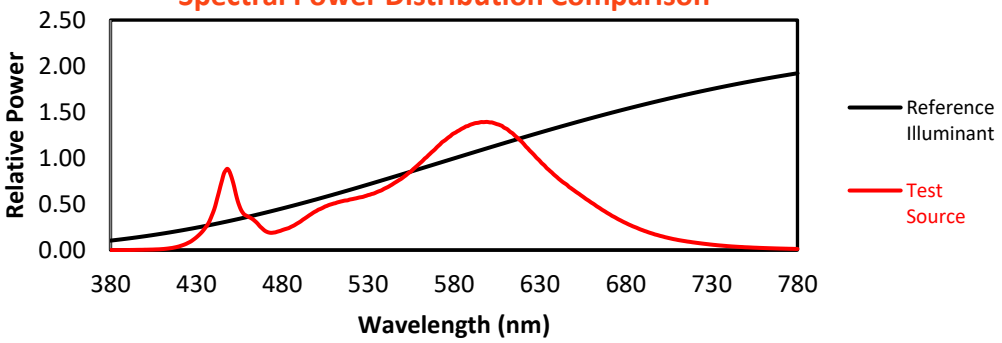
REPORT NUMBER: SP1-2501-332-9

TM-30-18

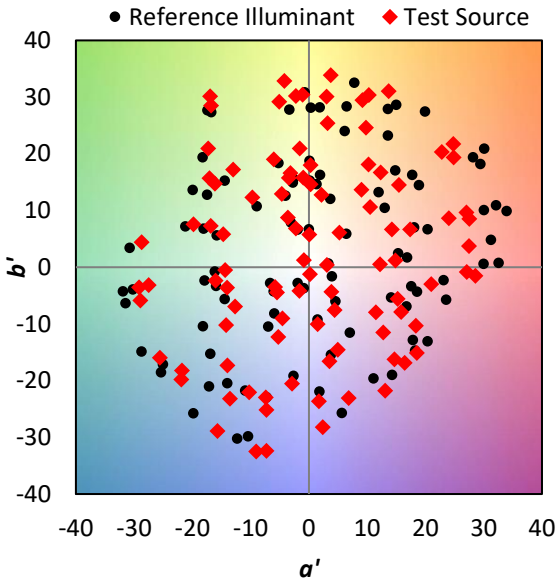
Summary

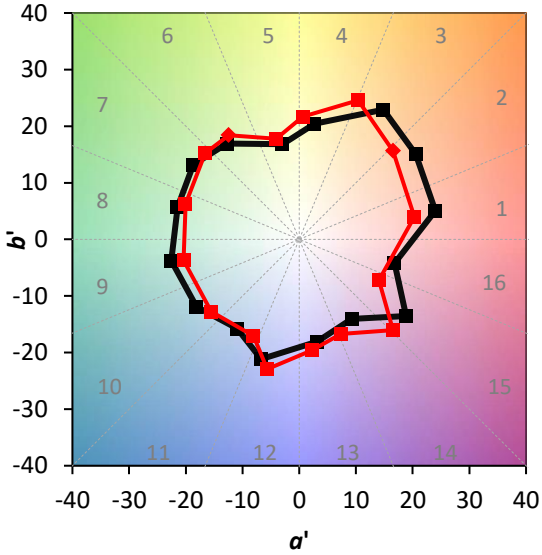
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

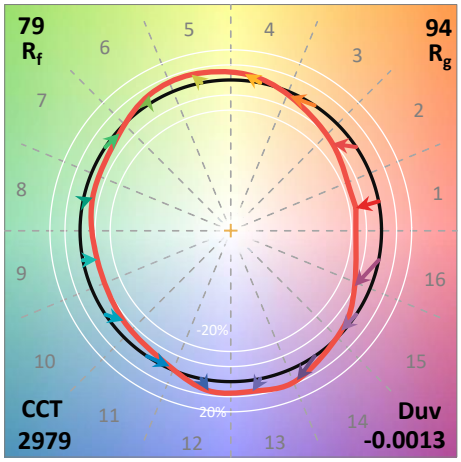
Spectral Power Distribution Comparison

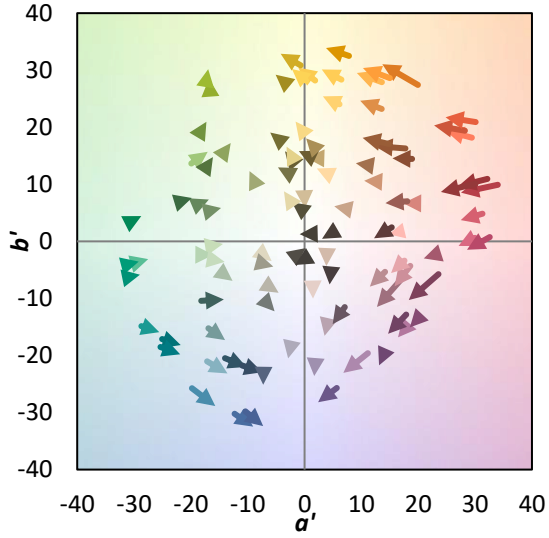


Color Vector Graphics







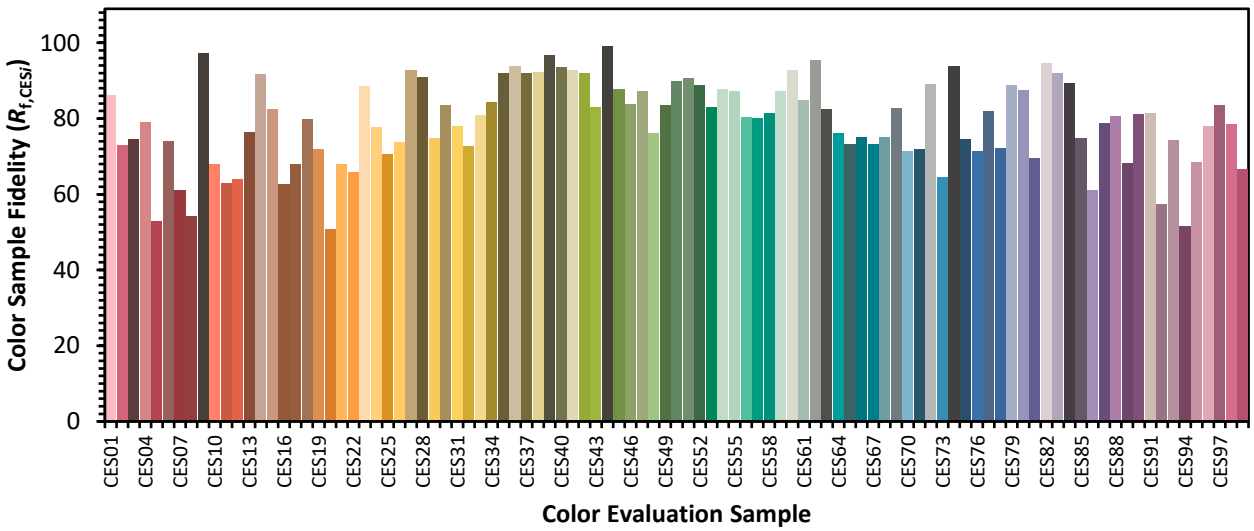


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

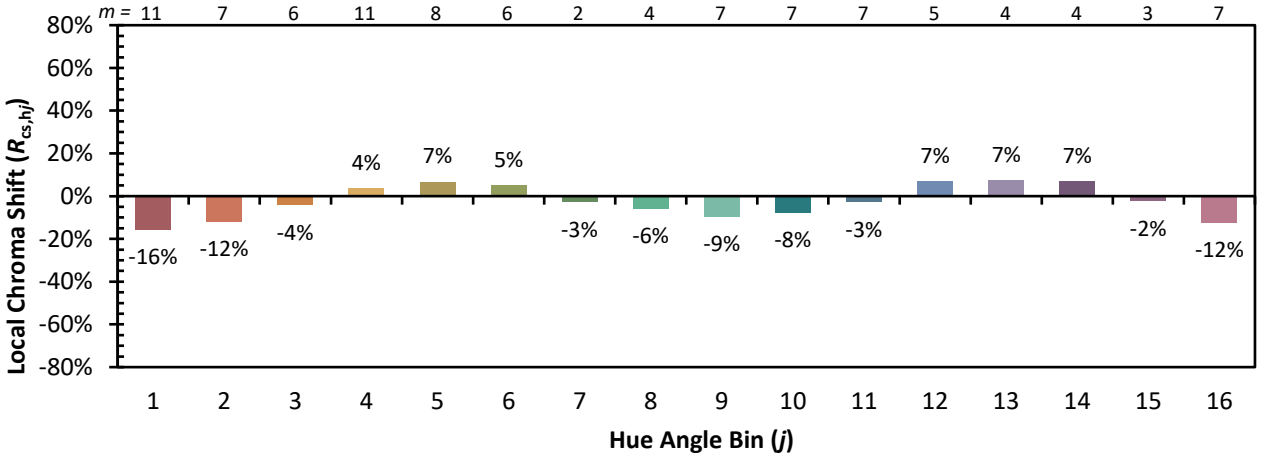
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

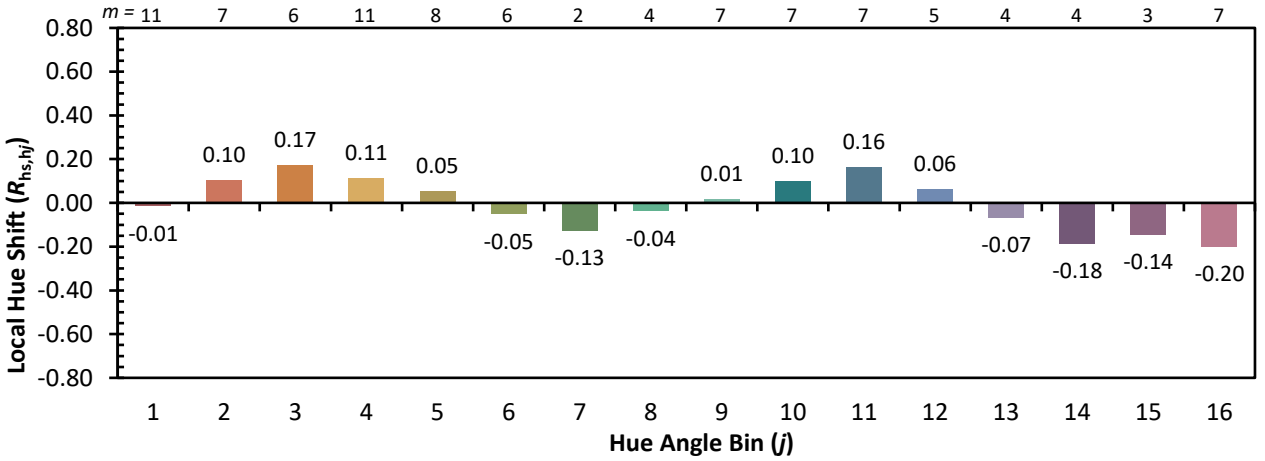


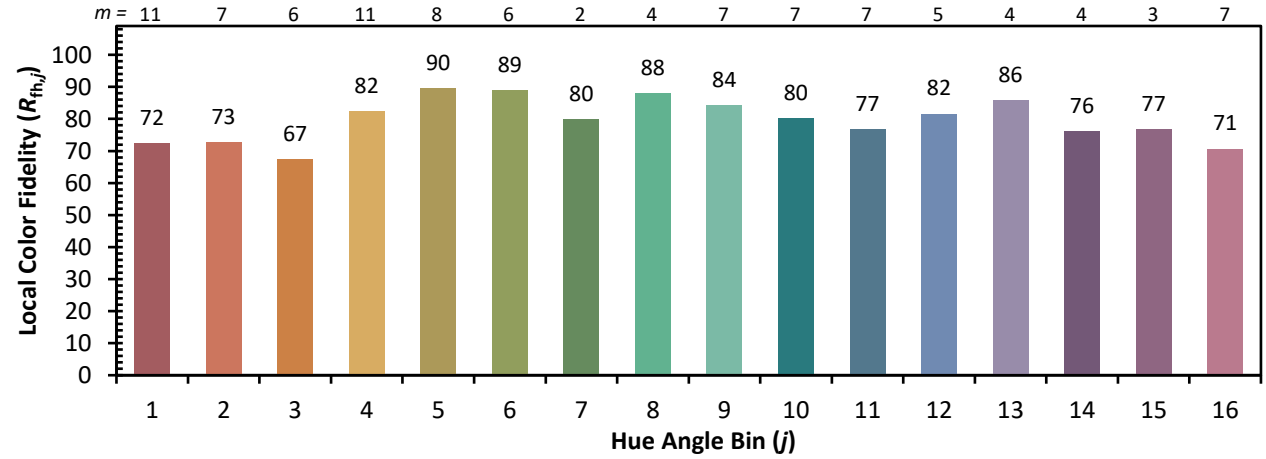
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Color Rendition by Hue-Angle Bin



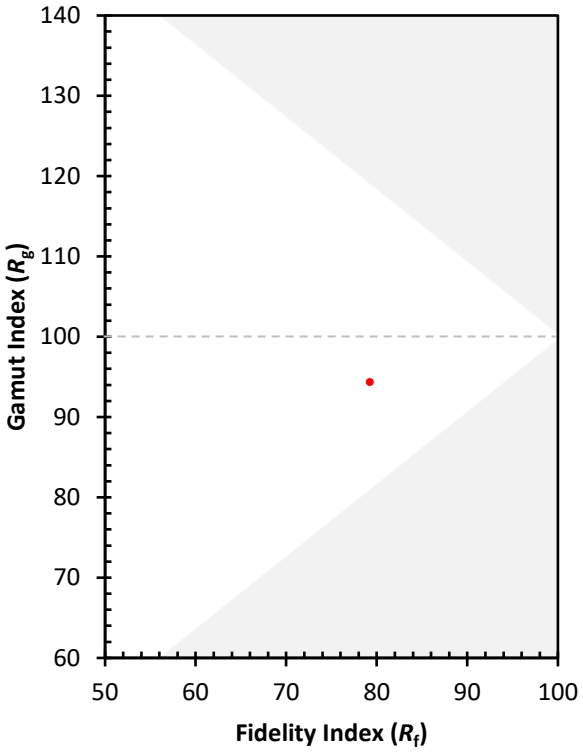


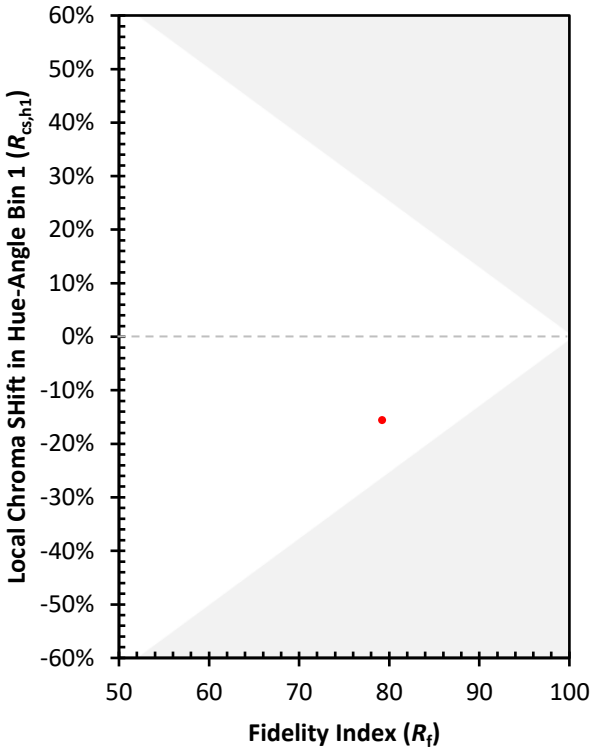


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Measure Comparisons





(END OF REPORT)