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: P1046433

Luminaire Tested: **FFX-CLB-20-730-U-FR-T4-UPLR**

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:	P1046433
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3124.8 lumens
Efficiency:	N/A
Efficacy:	157.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G2

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

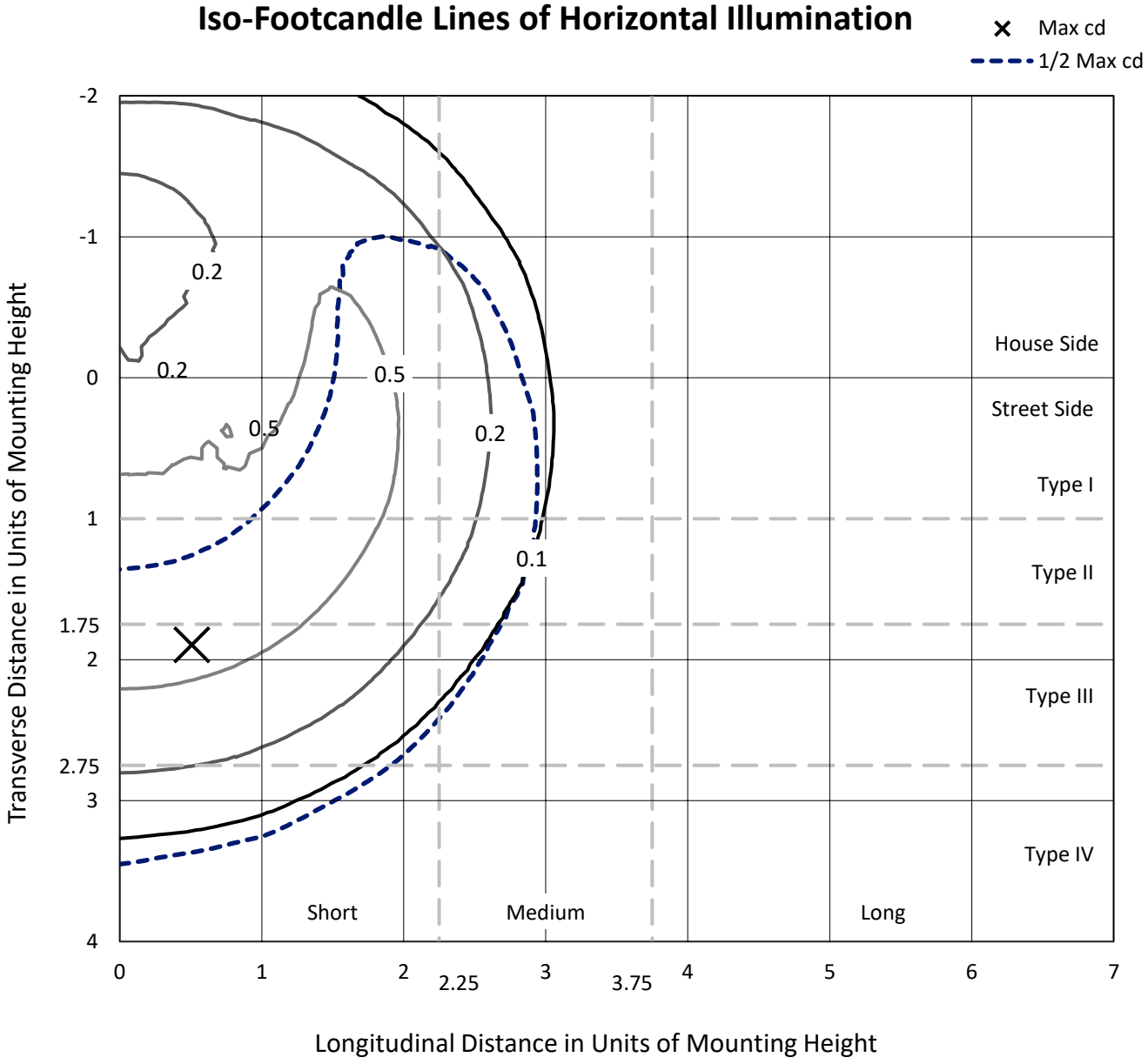


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Iso-Footcandle Lines of Horizontal Illumination



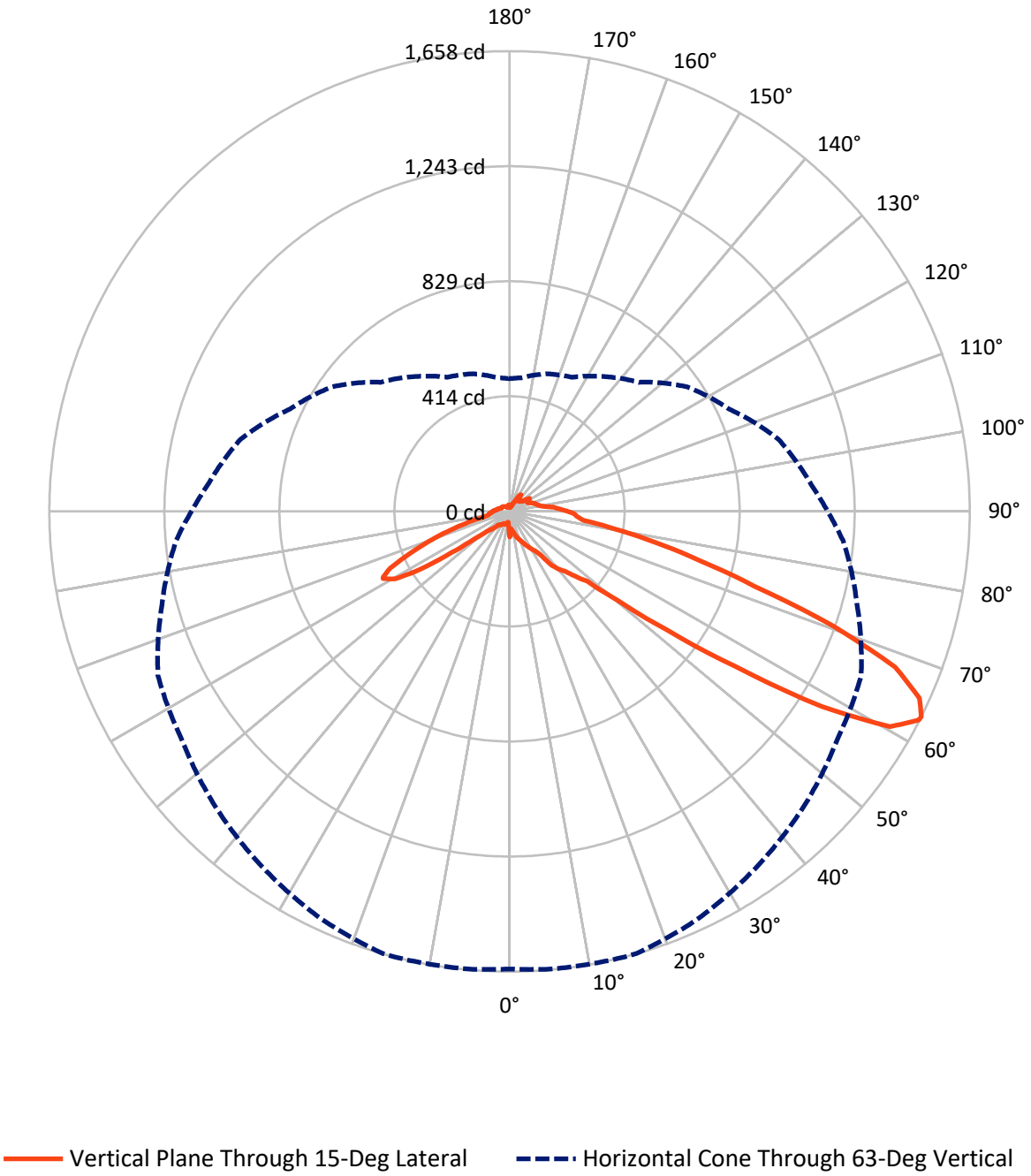
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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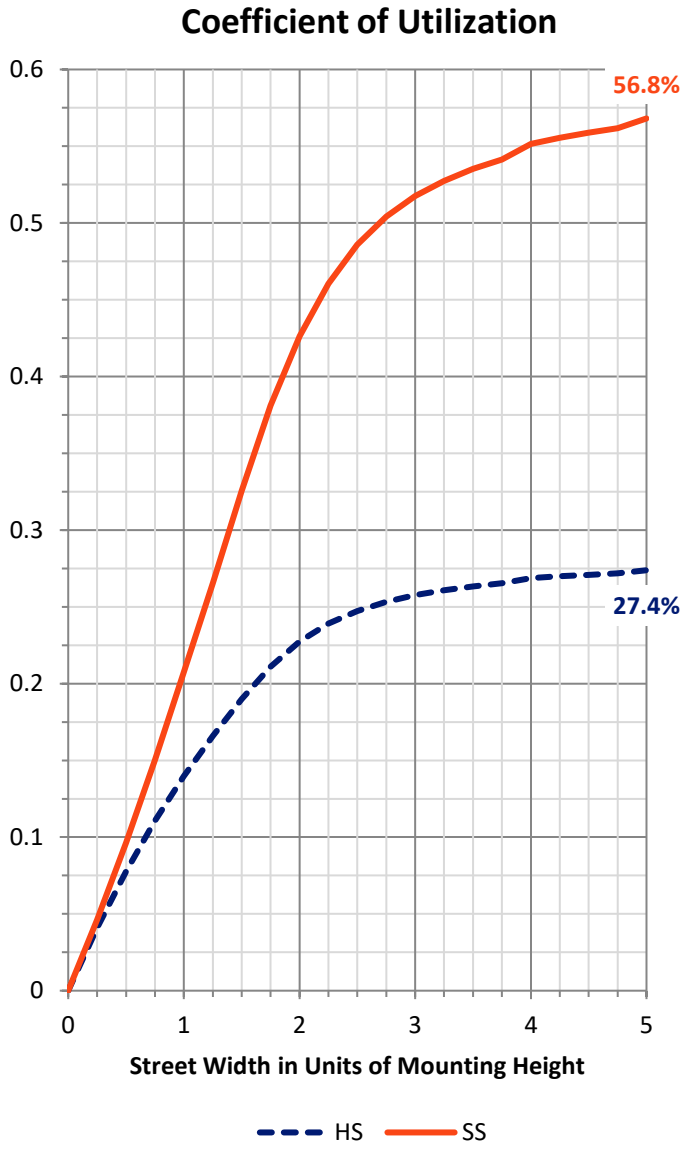
REPORT NUMBER: P1046433
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	883.7	144.0	1027.7
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	1850.4	246.6	2097.1
	% Fixture	59.2	7.9	67.1
Total	Lumens	2734.1	390.6	3124.8
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.2
10°-20°	20.5	0.7
20°-30°	44.3	1.4
30°-40°	91.1	2.9
40°-50°	187.9	6.0
50°-60°	618.2	19.8
60°-70°	1023.5	32.8
70°-80°	536.8	17.2
80°-90°	206.1	6.6
90°-100°	124.5	4.0
100°-110°	78.4	2.5
110°-120°	58.1	1.9
120°-130°	49.4	1.6
130°-140°	32.2	1.0
140°-150°	28.0	0.9
150°-160°	12.8	0.4
160°-170°	5.2	0.2
170°-180°	1.8	0.1
0°-90°	2734.1	87.5
0°-180°	3124.8	100.0



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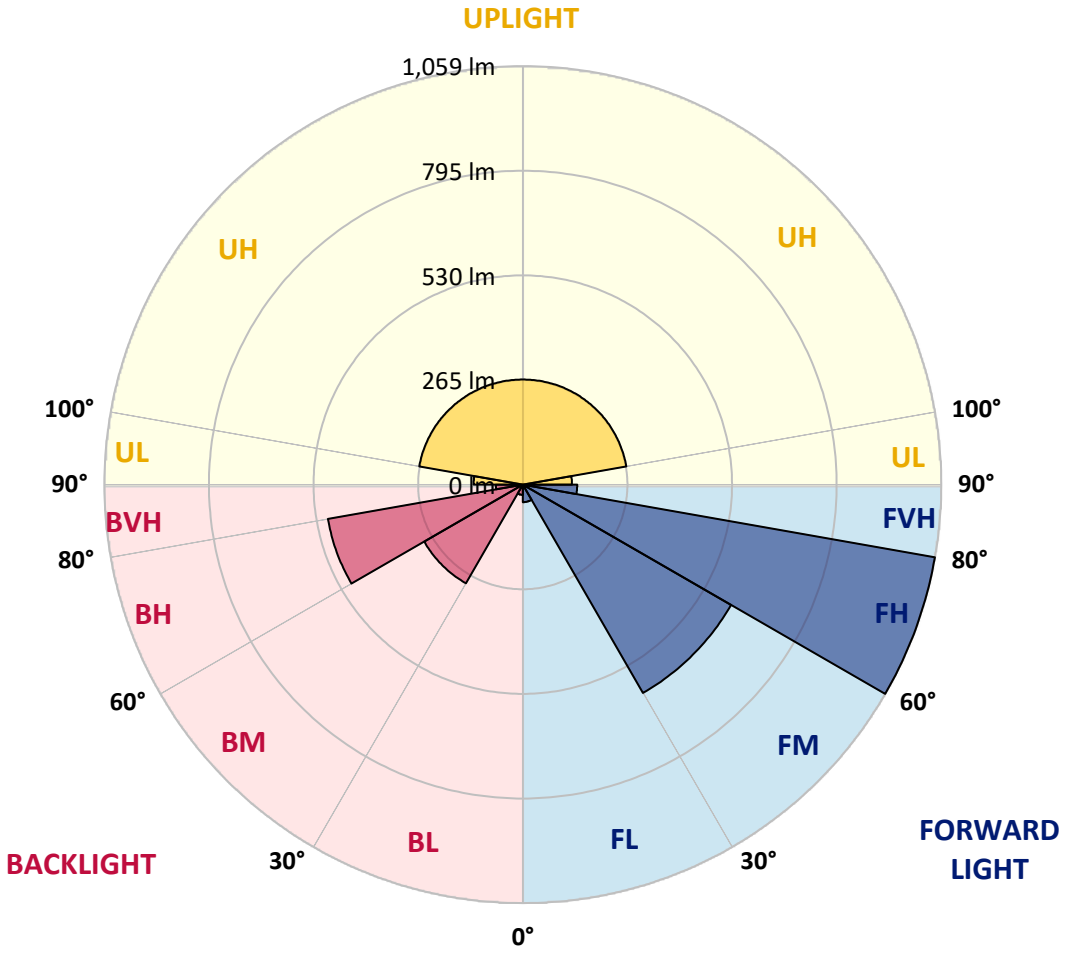
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	44.5	1.4			
FM	(30°-60°)	608.9	19.5			
FH	(60°-80°)	1059.3	33.9			G1/1800
FVH	(80°-90°)	137.7	4.4			G2/225
BL	(0°-30°)	26.0	0.8	B0/110		
BM	(30°-60°)	288.3	9.2	B1/1000		
BH	(60°-80°)	501.0	16.0	B2/1000		G2/1000
BVH	(80°-90°)	68.4	2.2			G1/100
UL	(90°-100°)	124.5	4.0		U3/500	
UH	(100°-180°)	266.1	8.5		U3/500	

BUG Rating: B2-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2.5°	56.8	56.8	65.0	66.4	74.2	76.7	72.4	69.1	77.1	93.5	96.2
5°	61.7	63.0	62.8	62.5	63.0	70.3	77.9	74.4	61.1	48.6	48.6
7.5°	69.9	70.3	70.1	69.9	67.3	63.0	61.1	66.7	70.1	59.7	50.0
10°	75.7	75.3	75.1	74.9	75.3	76.9	76.3	69.5	62.8	59.3	57.2
12.5°	86.5	86.7	86.1	85.7	85.3	84.7	84.1	85.5	81.8	71.8	65.0
15°	94.7	94.7	96.4	96.0	96.0	93.9	91.1	87.0	82.0	79.4	73.4
17.5°	103.4	103.6	103.4	103.4	102.5	99.9	96.8	93.1	88.0	83.5	78.3
20°	111.8	111.8	111.6	111.4	111.2	109.1	105.2	100.3	95.6	91.3	85.9
22.5°	120.6	121.2	121.6	121.2	120.6	118.5	114.2	109.5	105.0	98.8	93.1
25°	133.1	133.3	132.9	132.5	131.7	129.0	125.7	120.8	115.3	108.7	101.1
27.5°	145.0	145.4	145.2	145.2	143.6	141.3	138.0	131.5	125.3	117.7	109.9
30°	158.5	158.1	157.1	157.3	156.3	154.4	150.7	145.0	137.2	128.2	119.6
32.5°	171.9	171.9	170.4	169.8	169.8	167.3	163.2	157.3	149.9	140.3	131.9
35°	186.4	190.1	193.8	195.2	195.2	191.8	186.8	179.0	172.7	162.6	152.2
37.5°	256.4	254.1	245.1	246.1	243.0	241.6	238.3	231.7	222.9	207.5	191.5
40°	281.0	280.6	273.8	273.0	271.5	266.8	263.3	258.8	255.7	237.3	213.3
42.5°	285.3	287.5	296.5	298.8	310.5	303.3	289.4	263.9	257.6	243.6	233.6
45°	333.7	334.5	334.5	334.9	331.8	326.5	324.6	308.4	295.7	275.6	256.8
47.5°	381.9	383.7	376.5	382.3	390.3	379.4	374.5	361.1	343.7	328.1	297.2
50°	493.8	501.0	502.4	502.7	506.1	505.3	497.9	479.5	462.0	426.4	391.9
52.5°	701.2	708.1	711.2	703.8	693.0	688.0	689.9	682.3	641.9	603.6	533.6
55°	971.9	984.0	984.0	991.8	988.5	965.1	963.7	914.0	848.8	806.2	745.3
57.5°	1334.1	1315.8	1326.1	1337.1	1314.6	1290.0	1253.3	1201.4	1106.0	1032.4	944.2
60°	1602.5	1595.1	1574.8	1562.3	1505.9	1457.1	1428.2	1390.2	1317.9	1221.1	1103.1
62.5°	1651.7	1657.1	1655.6	1655.6	1610.5	1552.1	1493.6	1438.0	1393.1	1293.4	1200.1
63°	1648.7	1655.2	1657.9	1657.1	1616.5	1558.8	1500.8	1439.5	1397.8	1296.1	1205.9
65°	1622.4	1627.9	1623.2	1621.6	1595.9	1557.0	1491.8	1431.1	1393.1	1284.2	1206.7
67.5°	1517.0	1515.8	1498.1	1506.1	1489.9	1468.2	1407.3	1347.4	1321.1	1202.2	1130.8
70°	1225.2	1216.5	1235.8	1247.3	1229.7	1221.1	1148.7	1109.3	1075.4	985.0	927.4
72.5°	936.6	918.8	922.0	932.5	910.4	904.4	873.4	841.0	824.8	768.4	704.5
75°	734.4	724.8	706.9	709.8	691.5	685.6	682.3	672.9	666.5	619.6	556.2
77.5°	549.2	548.8	533.8	531.6	518.4	528.3	524.4	538.5	535.5	498.1	449.9
80°	384.3	382.1	386.0	384.5	381.5	387.2	381.0	388.8	388.8	364.4	344.1
82.5°	250.8	255.3	267.6	270.5	275.0	288.5	266.8	255.3	252.3	249.6	239.7
85°	249.0	250.2	244.9	245.5	243.4	238.3	242.2	244.0	241.0	226.2	204.5
87.5°	234.6	236.3	231.9	233.2	225.6	227.2	229.7	231.1	229.7	216.6	198.5
90°	197.7	199.5	203.4	203.4	204.1	204.5	200.6	202.8	201.4	188.9	175.8
92.5°	175.3	177.0	177.2	177.4	175.8	181.1	174.7	170.8	169.8	159.8	150.3
95°	160.4	158.5	158.1	158.5	157.7	157.5	153.4	150.5	149.3	141.3	132.1
97.5°	125.5	126.5	126.1	127.2	125.1	124.9	121.4	117.7	116.5	109.9	103.8
100°	110.1	109.9	110.3	110.5	109.3	107.9	105.4	102.7	101.3	96.4	90.4
102.5°	103.4	103.2	104.0	104.2	103.2	102.1	100.1	98.4	97.2	92.7	86.1
105°	99.1	98.4	99.5	99.5	97.2	96.6	95.2	95.0	94.1	88.8	82.4
107.5°	93.1	92.1	93.3	93.1	92.3	91.7	90.4	89.6	89.0	84.5	77.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	87.6	86.1	*86.7*	87.2	87.8	87.4	86.3	84.7	83.1	79.4	73.4
112.5°	77.3	78.1	*77.9*	77.9	78.5	78.8	76.9	75.9	74.9	72.0	68.1
115°	73.4	73.4	*73.4*	73.4	71.8	71.2	69.3	68.1	67.9	64.4	61.9
117.5°	70.3	70.8	*71.8*	72.4	74.4	73.2	69.1	66.4	65.4	64.0	61.3
120°	82.9	81.4	*80.0*	79.8	80.0	79.2	78.3	76.5	74.0	70.1	62.8
122.5°	88.8	85.1	*85.7*	85.5	84.1	84.7	84.9	85.1	83.5	77.3	65.8
125°	74.4	73.4	*74.0*	74.6	74.9	74.6	74.2	76.1	73.8	71.8	63.2
127.5°	59.5	59.1	*57.8*	57.6	57.2	57.4	57.4	58.0	56.0	53.9	53.5
130°	56.6	55.8	*56.0*	56.2	56.0	54.8	53.9	52.9	52.7	50.7	47.8
132.5°	51.3	51.7	*55.2*	55.6	58.0	56.6	52.3	49.4	49.8	50.9	49.8
135°	48.0	47.8	*50.5*	50.7	54.3	53.3	49.8	46.6	46.6	49.0	48.0
137.5°	49.0	49.4	*49.6*	49.8	49.6	49.4	49.2	47.8	46.8	46.6	44.1
140°	52.7	52.5	*50.5*	50.7	50.5	50.5	51.7	52.7	49.2	46.1	42.0
142.5°	55.2	55.8	*55.0*	56.0	57.8	56.2	54.1	51.5	49.4	47.4	44.9
145°	74.9	73.4	*72.8*	72.4	71.2	67.7	65.6	63.0	60.5	57.2	53.1
147.5°	67.9	68.3	*67.1*	67.5	65.8	64.6	64.2	64.4	63.6	61.7	57.4
150°	53.9	54.3	*53.1*	52.5	51.9	51.9	51.9	52.3	51.3	50.0	48.0
152.5°	37.7	37.3	*36.9*	36.7	36.3	35.9	35.9	36.1	35.1	34.7	33.0
155°	34.7	34.5	*32.8*	32.4	32.8	33.2	33.4	32.8	32.0	31.2	28.9
157.5°	27.1	26.5	*26.3*	26.7	26.7	26.5	26.0	26.5	25.6	25.4	25.0
160°	22.1	21.9	*22.1*	22.1	22.4	22.4	22.1	22.1	21.7	21.9	21.9
162.5°	18.9	18.9	*18.9*	18.7	19.1	19.3	19.1	19.1	19.3	19.9	20.3
165°	16.2	16.2	*16.4*	16.4	16.6	16.6	16.8	17.0	17.4	18.9	20.1
167.5°	15.2	15.2	*15.4*	15.4	15.6	15.8	16.2	17.0	18.3	19.9	20.5
170°	15.0	15.0	*15.0*	15.0	15.2	15.4	16.2	17.4	18.9	19.9	19.3
172.5°	15.6	15.6	*15.8*	15.8	15.8	16.6	17.2	18.3	19.1	19.3	18.7
175°	16.2	16.0	*16.2*	16.2	16.4	17.0	17.8	18.3	18.7	18.9	19.1
177.5°	15.8	15.8	*15.8*	16.0	16.0	16.2	16.6	16.8	17.2	17.6	18.3
180°	15.4	15.4	*15.4*	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2.5°	96.2	93.5	72.8	62.3	71.2	88.4	90.0	77.9	60.5	42.0	38.4
5°	51.3	54.1	60.5	60.3	56.2	52.5	48.0	45.1	49.8	47.8	49.0
7.5°	46.3	43.7	44.7	52.3	51.1	38.8	35.1	34.2	38.4	47.8	46.8
10°	56.4	55.6	52.5	46.3	44.3	45.9	47.4	46.3	42.7	37.1	36.3
12.5°	63.8	62.8	63.2	67.1	62.3	51.7	45.7	43.9	45.9	54.1	55.8
15°	71.0	69.1	66.4	60.9	56.4	53.5	50.0	46.3	47.6	45.3	44.5
17.5°	75.9	73.0	67.5	63.4	58.9	55.2	52.1	48.2	45.5	44.9	45.1
20°	82.4	79.4	73.4	68.7	63.2	58.2	52.9	48.8	46.1	45.1	45.1
22.5°	90.0	86.3	79.6	73.0	66.9	60.5	54.1	49.6	47.2	46.1	45.7
25°	98.0	94.3	85.9	79.0	71.2	64.2	57.6	51.9	49.2	48.0	47.0
27.5°	106.2	101.7	93.3	84.7	76.3	68.1	61.1	55.2	51.5	49.4	49.6
30°	115.3	111.6	102.1	92.3	81.8	72.2	65.4	58.7	54.1	51.9	52.1
32.5°	127.4	121.4	110.1	98.8	88.6	77.9	69.3	61.5	56.6	55.2	55.4
35°	147.5	139.9	126.1	110.7	97.0	84.5	73.6	64.4	58.7	56.4	56.2
37.5°	183.8	173.5	157.7	139.7	119.8	99.5	81.8	67.7	60.5	56.8	56.2
40°	201.4	187.4	167.6	152.0	138.4	121.0	100.9	79.6	63.6	58.9	58.2
42.5°	225.0	213.3	187.4	157.1	139.0	124.5	110.3	96.6	76.7	64.4	62.1
45°	247.7	237.3	217.0	187.2	160.4	137.6	116.5	101.5	89.2	76.7	75.7
47.5°	286.1	275.0	241.2	214.7	186.4	160.6	138.4	113.8	97.8	89.0	89.0
50°	382.3	362.0	328.5	287.9	242.4	200.6	169.2	139.0	119.8	106.4	105.8
52.5°	516.6	487.9	438.7	393.8	340.0	291.6	242.8	190.3	162.2	142.9	142.7
55°	710.6	681.3	615.4	529.1	463.3	405.4	354.8	297.2	252.9	221.7	219.2
57.5°	917.5	892.9	825.9	718.6	614.8	512.5	451.2	405.2	383.9	362.2	357.7
60°	1051.7	1009.4	948.3	846.0	745.5	615.0	539.0	486.2	479.1	474.4	468.4
62.5°	1136.2	1086.3	995.5	872.8	780.5	657.1	589.0	532.8	516.0	490.8	483.6
63°	*1145.8*	*1091.6*	*1003.1*	*872.2*	*781.6*	*657.7*	*592.7*	*532.8*	*513.1*	*482.8*	*478.0*
65°	1141.3	1091.0	1002.6	859.5	757.8	645.6	582.0	508.4	477.0	436.8	428.8
67.5°	1072.4	1018.8	935.6	794.9	703.0	588.6	518.7	440.5	392.9	353.6	344.3
70°	873.0	839.8	766.6	645.0	575.3	486.0	424.7	363.4	311.9	270.5	260.0
72.5°	665.3	630.4	575.5	496.5	445.0	383.7	325.7	278.5	236.0	208.6	209.4
75°	527.9	494.7	449.3	397.4	355.4	300.9	243.4	196.7	166.5	150.1	148.7
77.5°	425.1	402.2	362.6	314.8	278.5	221.5	170.4	129.6	107.3	97.8	95.2
80°	327.7	311.7	282.2	240.2	202.4	155.7	116.1	91.7	79.8	71.8	70.3
82.5°	233.2	223.5	198.9	169.6	144.0	119.6	101.7	85.7	73.4	66.7	64.6
85°	194.6	185.6	170.0	151.8	135.4	117.5	98.6	81.6	70.1	64.8	62.1
87.5°	188.9	180.5	165.5	146.0	128.2	108.9	89.8	73.8	65.6	60.5	58.9
90°	169.2	162.8	149.7	131.9	114.0	94.3	77.7	66.4	60.1	56.0	54.1
92.5°	145.8	140.3	129.4	114.4	99.5	85.3	72.6	63.2	56.8	52.7	51.3
95°	126.7	123.3	114.2	101.5	90.6	79.0	68.1	59.1	52.5	48.8	47.4
97.5°	101.1	97.0	90.4	81.6	73.4	65.2	57.2	51.1	46.3	43.9	42.7
100°	88.0	85.3	79.4	72.4	65.4	58.2	52.1	47.4	44.3	42.2	41.2
102.5°	82.9	81.0	75.5	68.5	61.9	55.0	48.8	44.5	42.2	40.4	39.6
105°	78.1	76.7	72.4	66.0	59.7	52.1	45.1	41.4	39.4	38.1	37.5
107.5°	73.2	71.6	67.5	61.3	55.8	49.2	43.1	38.6	35.9	34.5	34.2

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

Scaled Data Report

REPORT NUMBER: P1046433
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	69.1	67.9	63.4	58.4	53.1	47.0	41.6	36.9	33.8	32.2	32.0
112.5°	64.8	63.4	58.9	54.1	49.6	44.3	39.6	35.5	32.6	31.0	30.8
115°	59.1	57.8	54.6	50.0	46.3	41.2	37.3	33.6	31.4	29.7	29.5
117.5°	59.7	56.2	51.7	47.6	44.3	40.6	37.1	34.2	30.8	28.9	28.9
120°	60.5	57.2	52.7	49.2	47.4	44.5	39.2	35.1	30.4	28.5	28.3
122.5°	59.7	60.1	57.6	54.1	50.5	45.5	39.0	34.5	29.7	28.3	28.5
125°	57.8	59.7	56.2	51.5	46.6	41.8	36.3	32.2	29.3	28.3	28.1
127.5°	52.3	51.9	47.4	43.9	40.4	36.5	33.0	30.6	28.5	27.3	26.7
130°	46.1	45.9	44.1	41.2	37.7	34.2	31.2	29.5	27.5	25.8	25.4
132.5°	48.6	48.0	44.1	39.4	35.5	32.6	30.6	28.7	25.8	24.0	23.8
135°	45.9	45.5	41.6	36.9	33.4	32.0	30.6	27.9	24.4	23.0	22.8
137.5°	42.0	40.4	37.1	34.2	32.6	32.2	30.4	27.3	24.0	22.4	22.1
140°	40.0	38.8	36.3	34.5	32.6	30.4	27.7	24.8	22.6	21.3	21.1
142.5°	42.5	42.0	38.4	35.1	32.2	29.5	26.7	24.8	22.4	20.7	20.5
145°	50.2	48.2	43.7	39.2	36.7	33.2	29.5	25.6	21.1	18.7	18.0
147.5°	55.0	53.1	48.6	43.7	38.4	32.8	27.1	22.1	18.7	16.8	16.4
150°	45.5	44.7	41.8	37.3	32.8	27.7	23.0	19.5	17.2	16.0	16.0
152.5°	32.0	31.8	30.6	27.9	25.0	22.1	19.7	17.6	16.4	15.6	15.6
155°	28.3	27.9	27.1	24.6	22.6	20.1	18.3	17.0	16.2	15.6	15.6
157.5°	24.4	24.0	23.8	21.9	20.3	18.7	17.2	16.2	15.6	15.2	15.0
160°	21.7	21.1	20.5	19.5	18.5	17.6	17.0	16.2	15.6	15.2	15.2
162.5°	20.3	19.9	18.9	18.0	17.6	17.6	17.8	17.4	16.2	15.6	15.4
165°	20.3	19.7	18.3	17.4	17.4	18.5	19.5	18.7	17.6	16.4	16.2
167.5°	20.5	20.1	18.7	18.0	18.7	19.9	20.9	20.7	19.3	18.3	18.3
170°	19.1	18.9	19.1	19.7	20.3	20.5	20.9	20.7	21.1	22.6	22.6
172.5°	18.5	18.7	19.7	20.7	21.9	21.9	20.9	20.7	22.6	24.6	25.0
175°	19.3	19.7	20.7	21.9	23.0	23.0	21.9	22.1	24.0	25.8	26.3
177.5°	18.5	18.7	19.1	18.9	19.3	18.3	18.7	18.3	18.9	18.9	18.9
180°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

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: SP1-2501-332-9

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

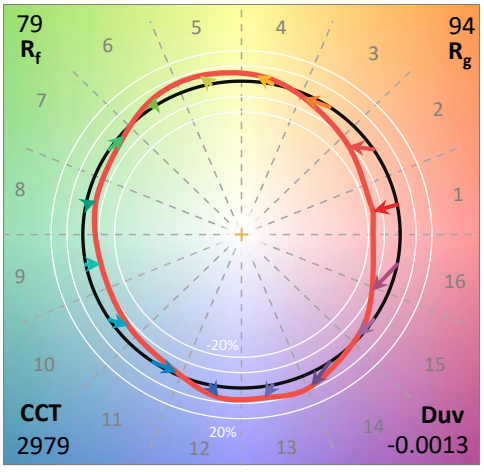
Test Information

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

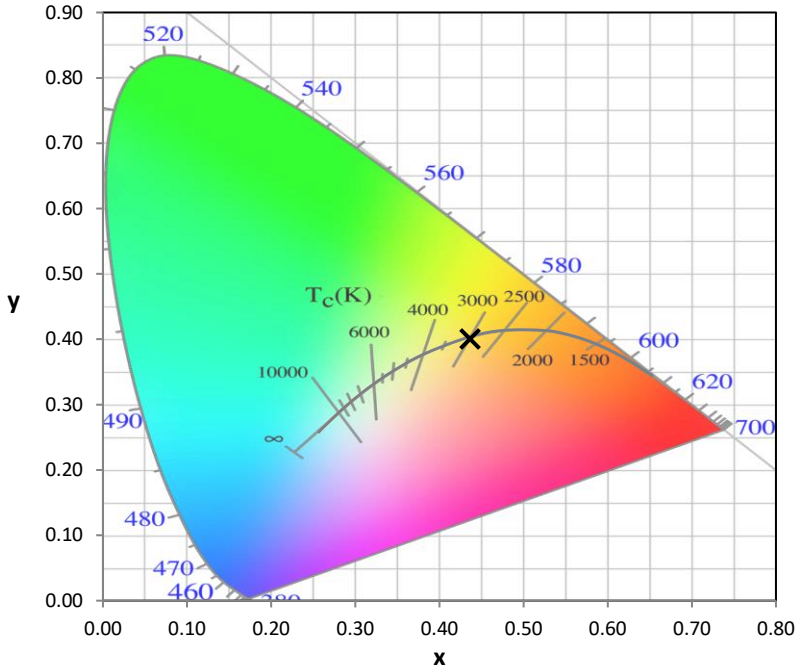
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

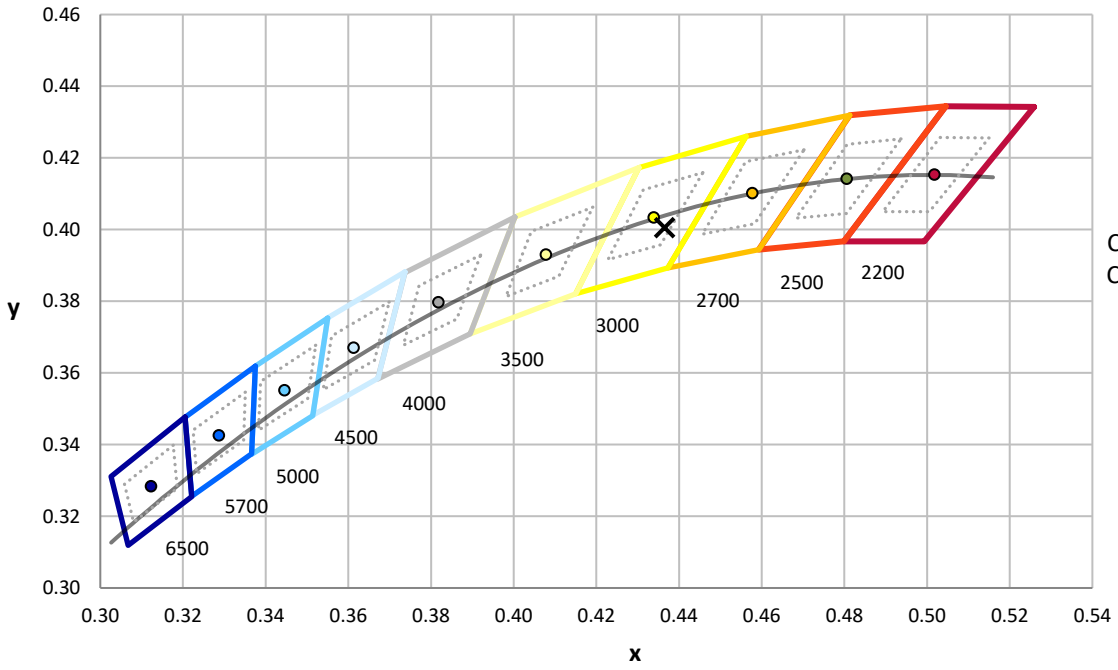
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

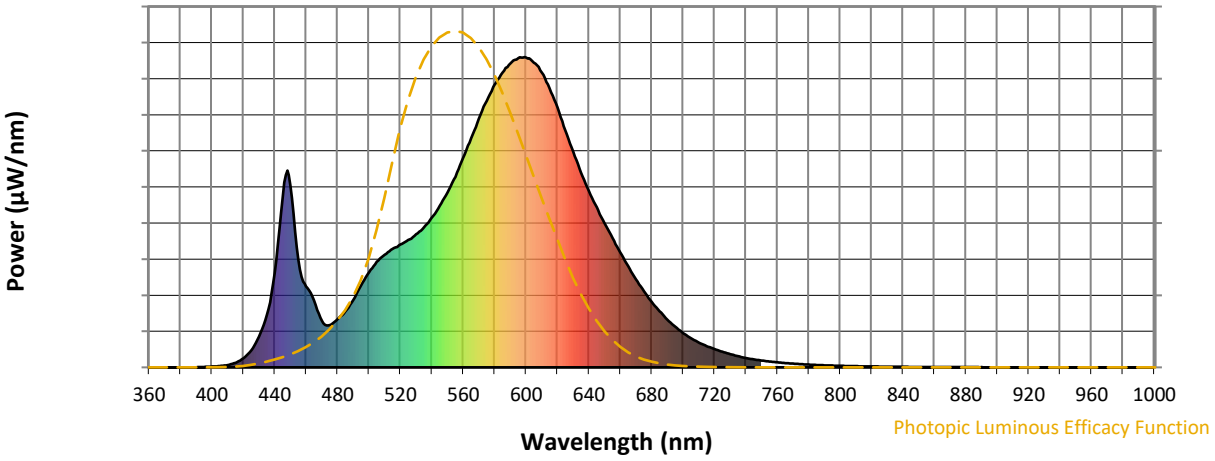


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

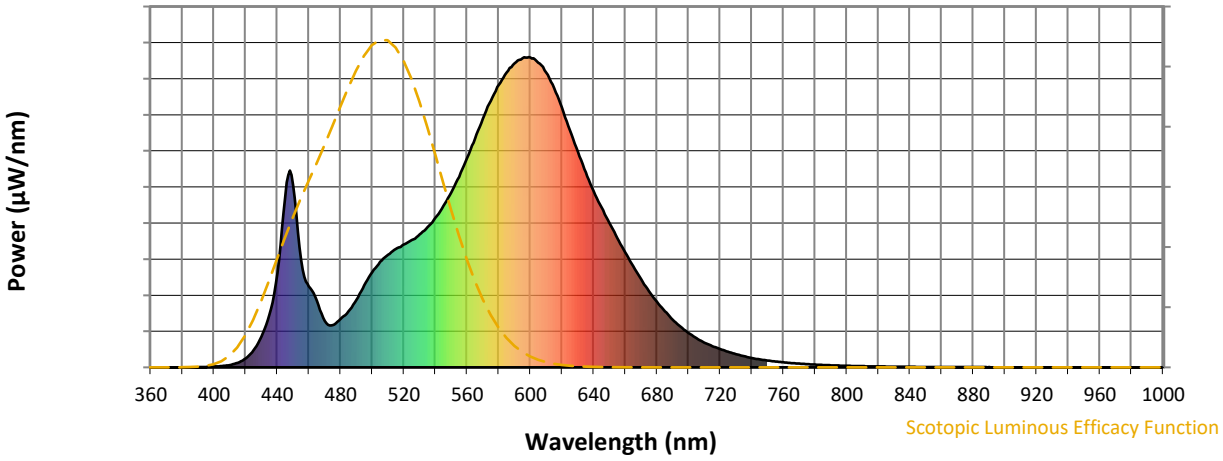


Photopic Lumens: NR

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

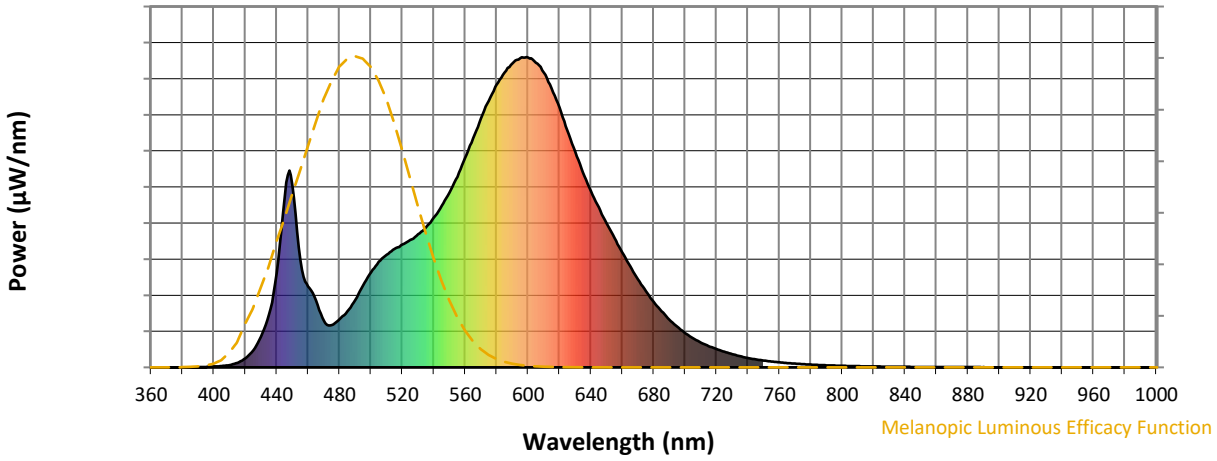


Scotopic Lumens: NR **S/P: 1.29**

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			

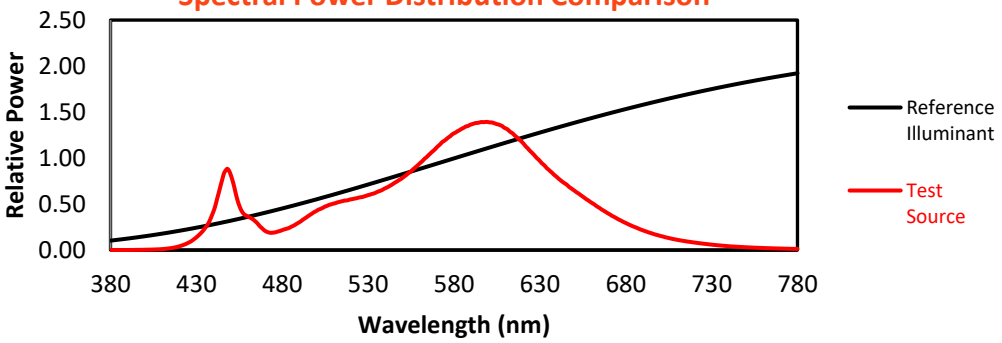
REPORT NUMBER: SP1-2501-332-9

TM-30-18

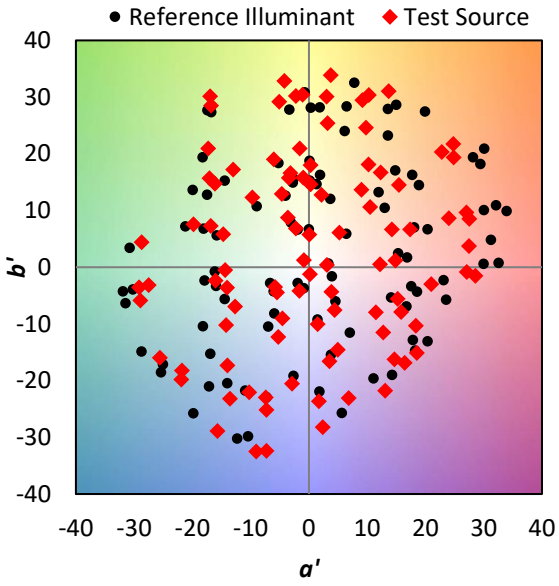
Summary

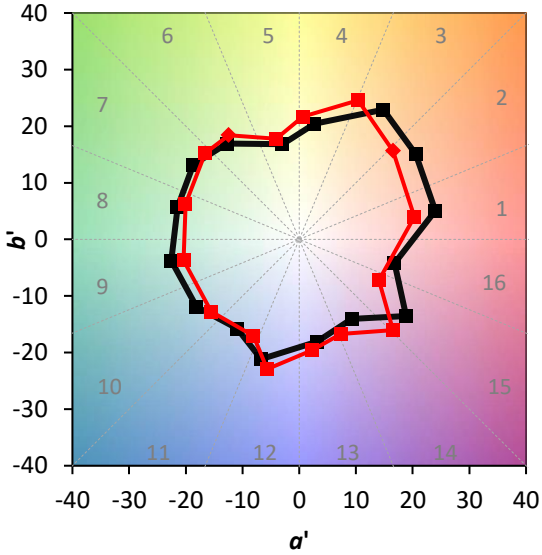
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

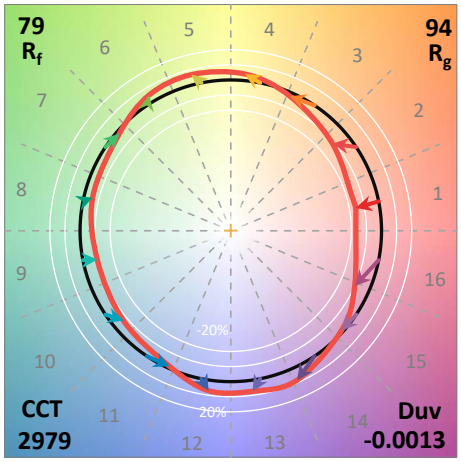
Spectral Power Distribution Comparison

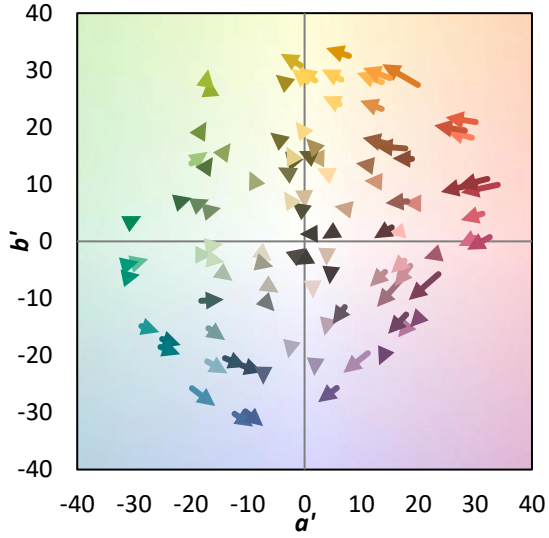


Color Vector Graphics







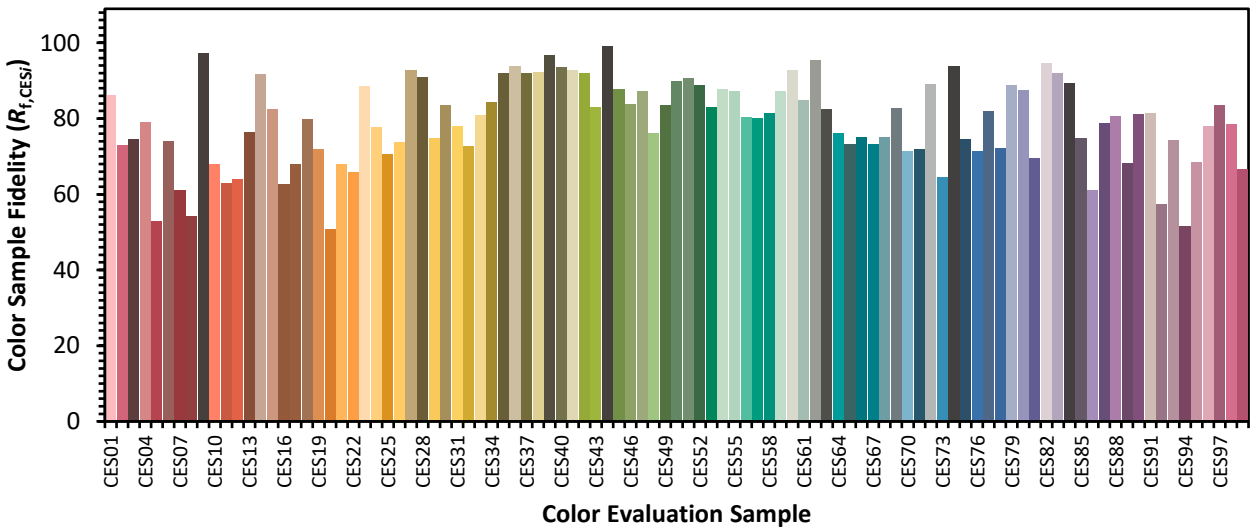


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

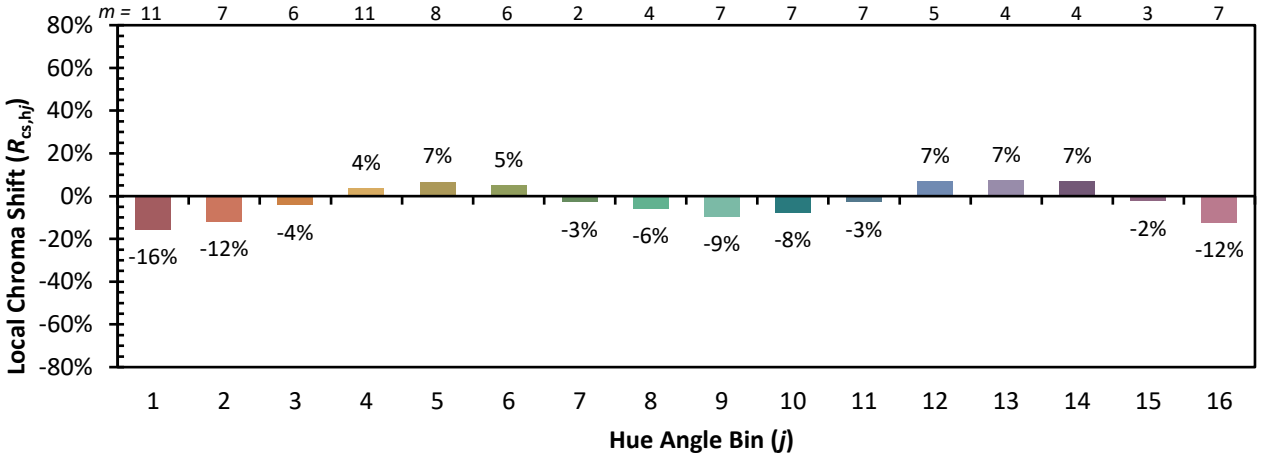
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

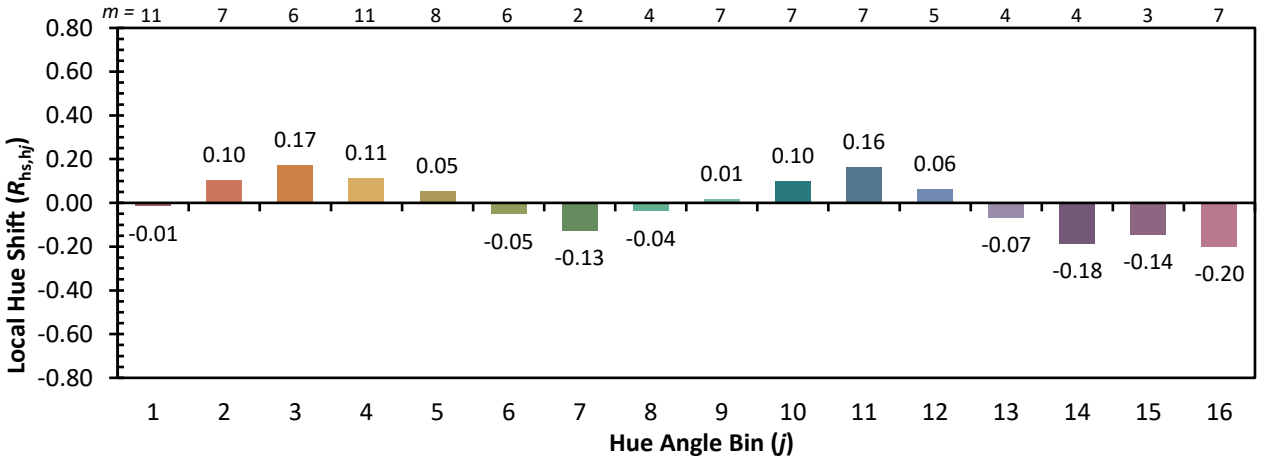


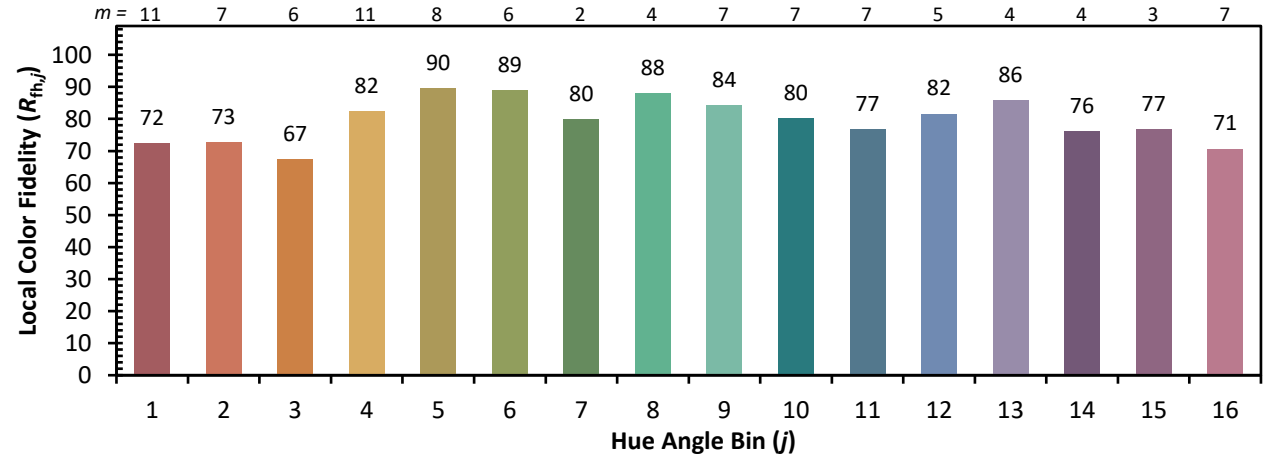
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Color Rendition by Hue-Angle Bin



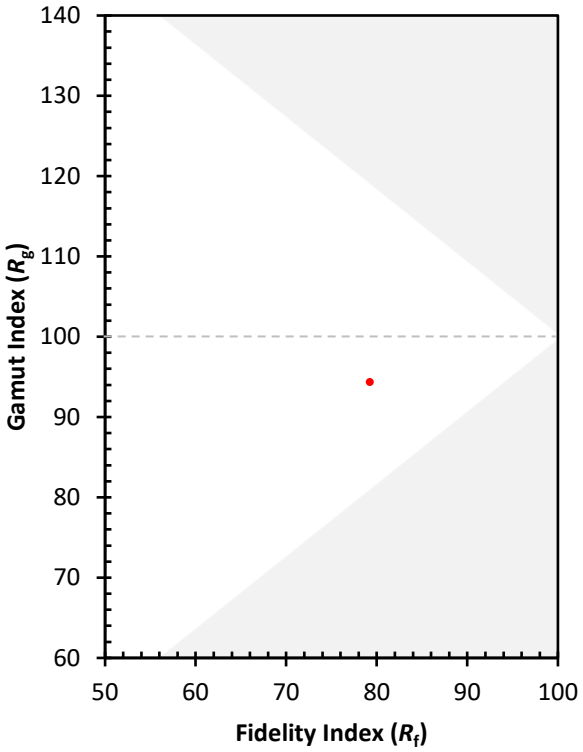


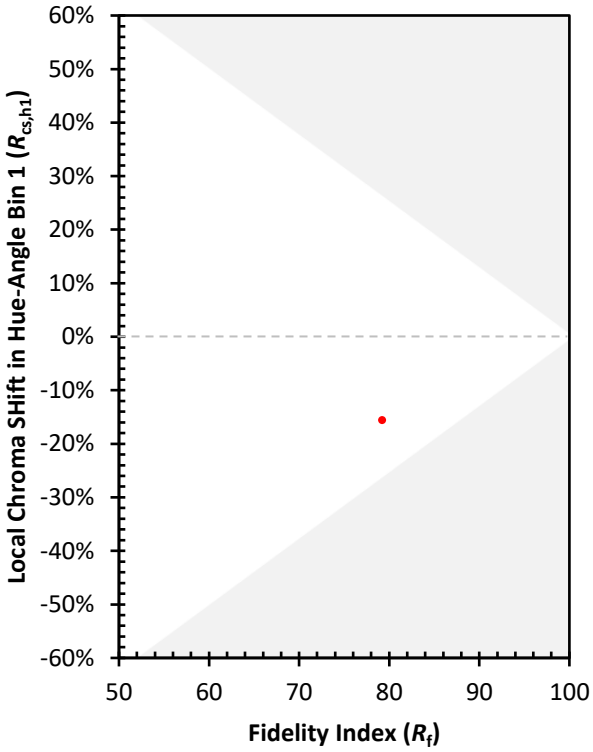


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Measure Comparisons





(END OF REPORT)