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: P1045936

Luminaire Tested: **FFX-CLB-40-730-U-FG-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045936
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-730-U-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4468.7 lumens
Efficiency:	N/A
Efficacy:	113.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

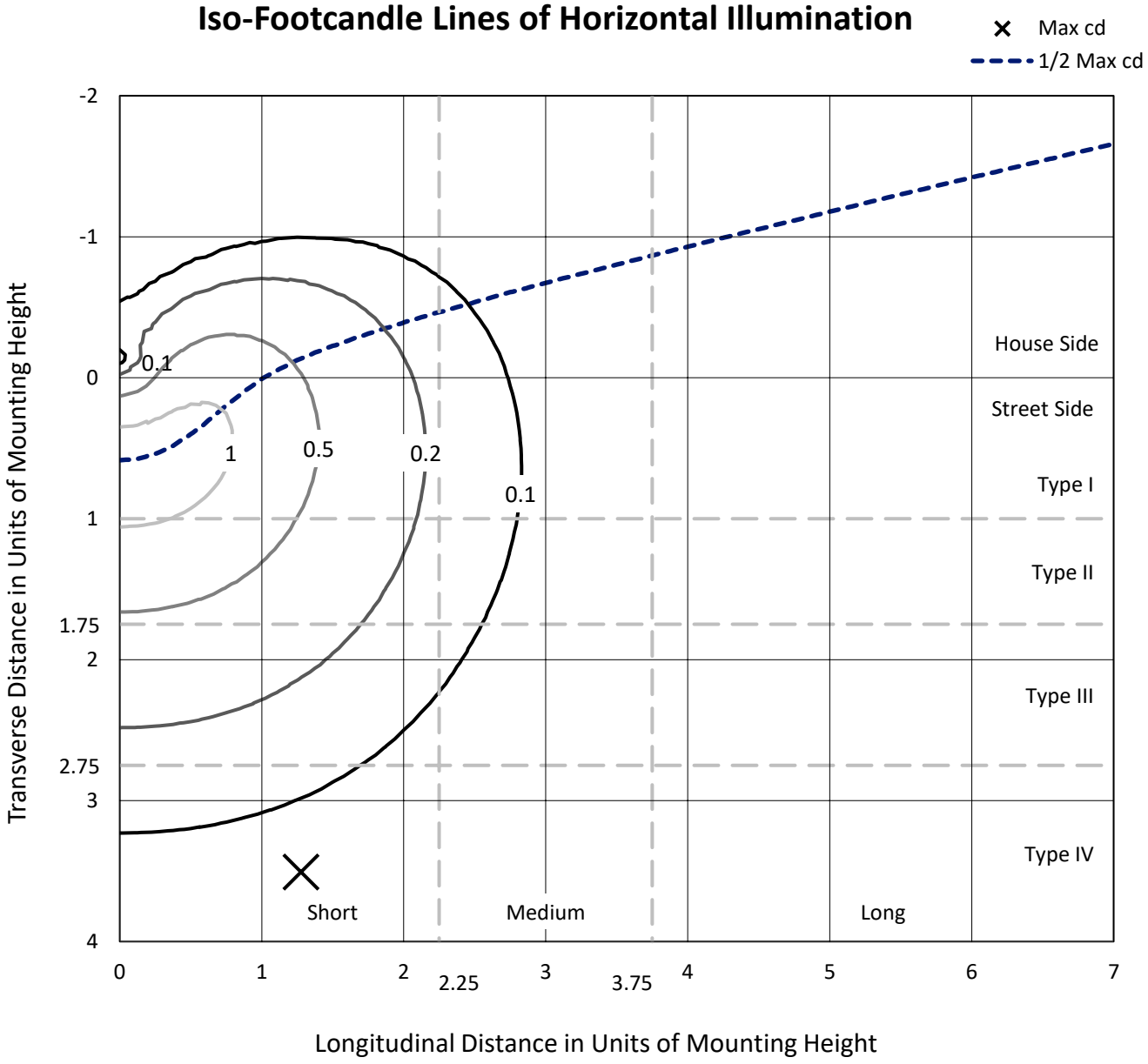


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Iso-Footcandle Lines of Horizontal Illumination



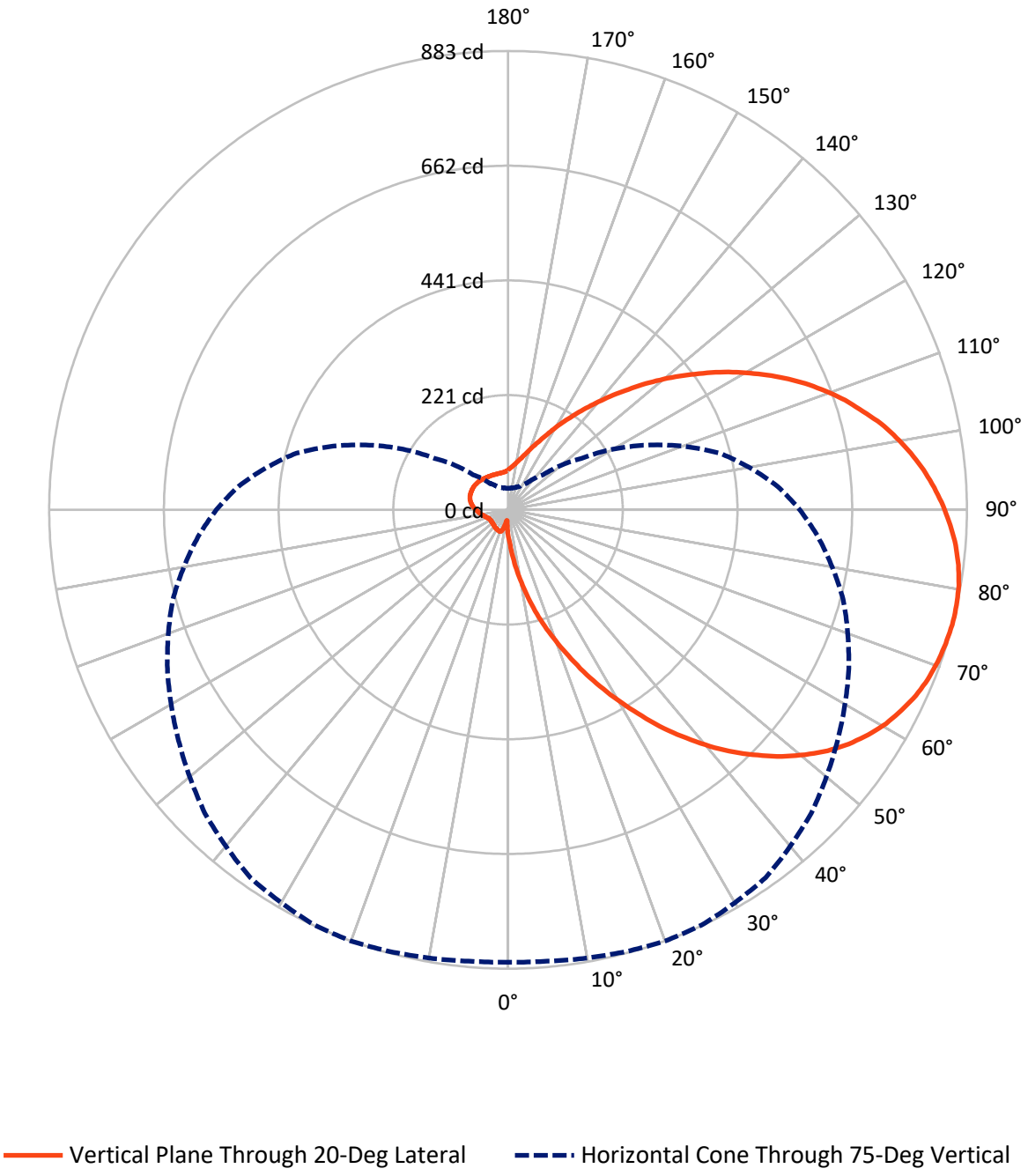
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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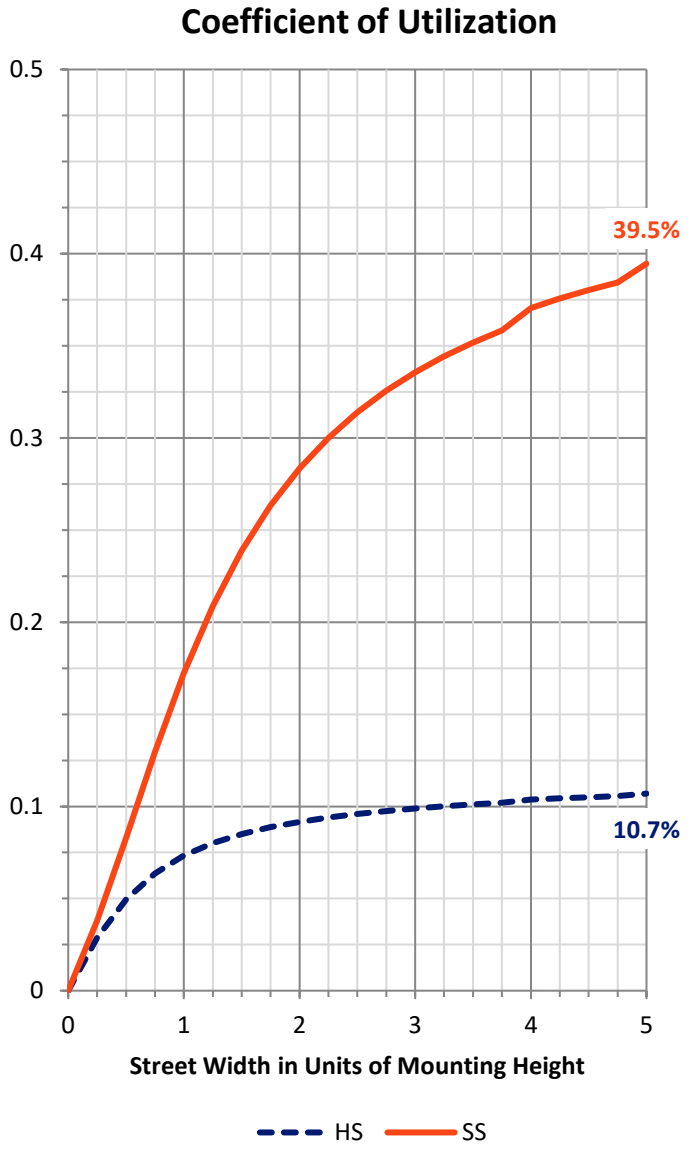
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.6	491.5	1008.1
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	2028.7	1431.9	3460.5
	% Fixture	45.4	32.0	77.4
Total	Lumens	2545.3	1923.4	4468.7
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	37.3	0.8
20°-30°	98.8	2.2
30°-40°	190.7	4.3
40°-50°	298.7	6.7
50°-60°	399.4	8.9
60°-70°	473.3	10.6
70°-80°	515.7	11.5
80°-90°	525.0	11.7
90°-100°	497.8	11.1
100°-110°	440.2	9.9
110°-120°	357.5	8.0
120°-130°	263.1	5.9
130°-140°	174.4	3.9
140°-150°	102.8	2.3
150°-160°	54.4	1.2
160°-170°	25.6	0.6
170°-180°	7.5	0.2
0°-90°	2545.3	57.0
0°-180°	4468.7	100.0



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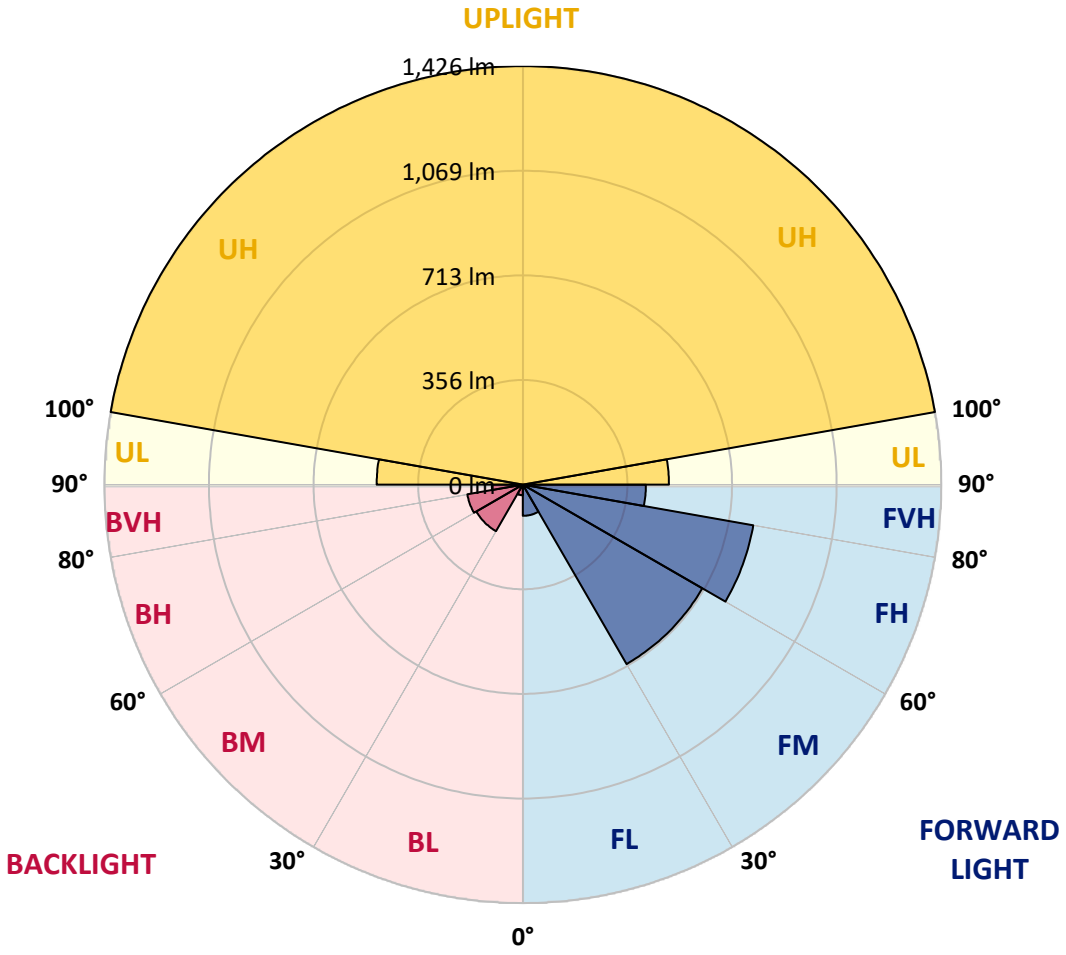
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	106.3	2.4			
FM	(30°-60°)	706.0	15.8			
FH	(60°-80°)	797.2	17.8			G1/1800
FVH	(80°-90°)	419.2	9.4			G3/500
BL	(0°-30°)	36.1	0.8	B0/110		
BM	(30°-60°)	182.9	4.1	B0/220		
BH	(60°-80°)	191.9	4.3	B1/500		G1/500
BVH	(80°-90°)	105.8	2.4			G2/225
UL	(90°-100°)	497.8	11.1		U3/500	
UH	(100°-180°)	1425.5	31.9		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	51.2	51.2	51.2	*51.2*	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	62.4	62.4	62.9	*62.9*	63.4	62.4	61.0	60.1	58.7	55.4	52.6
5°	86.9	87.3	86.4	*86.9*	87.3	85.0	81.7	77.5	71.4	65.7	59.6
7.5°	116.4	117.9	115.5	*115.0*	113.6	109.9	105.2	98.6	92.0	84.5	75.6
10°	148.8	148.4	145.6	*142.3*	141.3	136.6	130.5	124.4	114.6	105.2	95.8
12.5°	179.4	178.9	176.5	*174.2*	172.8	166.7	159.2	152.1	141.8	129.6	117.9
15°	211.3	211.8	209.4	*208.0*	205.2	199.1	193.0	182.7	172.3	158.2	144.1
17.5°	243.2	244.2	241.8	*240.9*	238.5	233.4	225.4	214.6	201.4	185.0	167.2
20°	278.4	279.4	278.0	*274.7*	271.9	266.2	259.2	245.6	231.0	214.1	191.1
22.5°	316.0	316.5	312.2	*311.3*	308.5	303.3	293.0	280.8	264.4	242.8	218.8
25°	353.1	353.1	352.2	*351.2*	347.0	340.9	330.6	315.5	297.2	274.2	246.0
27.5°	393.0	393.5	391.1	*390.2*	386.9	378.9	368.1	351.7	332.9	305.2	273.3
30°	435.3	434.8	432.4	*430.6*	429.2	421.2	409.0	392.1	368.6	336.7	304.3
32.5°	477.5	476.1	474.7	*472.8*	472.4	462.0	452.2	431.5	407.1	373.3	334.3
35°	520.7	517.4	516.5	*517.0*	514.6	506.2	491.6	471.4	443.2	408.0	363.9
37.5°	558.3	561.1	558.8	*556.9*	557.3	548.0	532.5	509.9	480.3	441.4	393.9
40°	600.1	598.2	598.2	*598.2*	596.8	588.3	571.9	547.0	513.2	471.9	420.2
42.5°	636.2	636.2	638.6	*637.2*	635.8	625.9	608.1	580.4	544.7	500.1	445.6
45°	673.3	672.4	675.2	*673.3*	672.4	662.1	643.3	614.6	577.1	528.2	471.0
47.5°	707.6	708.1	709.0	*709.0*	708.1	696.3	676.6	642.8	604.8	552.7	492.6
50°	737.2	739.5	742.3	*740.5*	741.4	728.7	706.7	672.4	628.2	575.7	511.8
52.5°	766.3	766.3	770.1	*770.1*	769.1	756.9	732.0	695.9	652.2	596.3	529.6
55°	791.2	791.7	794.9	*795.4*	794.9	780.9	754.6	715.6	670.0	613.7	544.2
57.5°	810.0	811.4	815.6	*817.0*	815.1	802.4	772.9	733.4	685.1	627.3	556.9
60°	826.9	828.7	833.4	*835.3*	833.9	820.3	789.3	747.0	697.3	639.0	567.7
62.5°	841.9	842.4	848.5	*849.4*	848.9	834.4	801.5	757.4	707.1	648.0	577.1
65°	852.7	854.1	860.7	*862.1*	861.1	845.6	811.4	765.8	715.1	655.5	584.1
67.5°	861.1	862.1	868.7	*871.0*	870.1	853.6	818.4	771.0	719.8	660.6	589.7
70°	865.8	867.2	874.8	*876.6*	875.7	859.3	822.6	773.3	722.6	664.4	593.5
72.5°	868.7	870.1	878.0	*880.4*	879.9	862.6	824.5	774.3	723.6	666.3	596.3
75°	*870.1*	*871.5*	*879.5*	*882.7*	*881.3*	*864.0*	*825.0*	*773.8*	*723.1*	*667.7*	*598.7*
76°	870.1	871.0	879.5	*882.7*	881.3	864.0	825.0	772.9	722.6	668.2	599.6
77.5°	869.1	870.5	879.0	*881.8*	880.9	863.5	823.6	771.0	721.2	667.2	600.1
80°	866.8	868.2	876.2	*879.5*	878.0	860.2	820.3	767.2	717.5	665.3	600.1
82.5°	861.6	863.0	870.5	*872.9*	872.4	854.6	814.2	760.7	711.8	662.1	599.1
85°	853.6	855.0	861.1	*864.0*	862.6	845.6	805.3	751.7	704.8	656.9	596.3
87.5°	842.8	843.8	850.3	*851.3*	850.8	833.9	794.0	740.5	695.4	649.8	591.6
90°	829.7	830.6	835.8	*837.2*	835.8	819.8	779.4	728.3	683.7	641.4	586.0
92.5°	816.1	815.6	819.4	*820.8*	819.4	803.4	764.4	713.7	671.4	632.0	578.9
95°	800.1	801.0	802.0	*802.9*	801.0	785.5	747.5	697.7	658.3	621.7	572.4
97.5°	782.3	781.8	782.7	*782.7*	780.9	765.4	728.3	682.2	643.3	610.4	563.5
100°	763.5	763.0	762.1	*760.2*	758.3	743.3	709.0	663.0	627.8	596.8	554.5
102.5°	742.8	740.0	737.2	*736.7*	732.5	719.8	686.9	644.7	611.3	584.1	543.3
105°	717.5	716.5	712.3	*708.5*	706.2	692.1	662.1	624.5	594.0	568.6	531.1
107.5°	691.6	689.8	683.7	*682.2*	677.6	664.9	637.6	604.3	576.6	553.1	516.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	663.9	663.0	656.4	*652.2*	648.4	634.4	610.9	582.7	557.3	535.7	500.1
112.5°	632.9	632.0	625.0	*621.7*	616.0	605.2	583.2	557.8	536.2	516.5	482.2
115°	601.5	601.0	593.0	*588.8*	583.6	570.5	552.7	532.9	513.7	494.0	460.6
117.5°	570.0	567.7	559.7	*554.5*	549.4	537.6	523.1	507.6	489.7	471.4	438.6
120°	534.3	533.9	524.9	*520.7*	516.0	505.2	492.6	478.0	463.9	445.6	416.5
122.5°	500.1	499.6	491.6	*486.4*	480.3	471.9	461.6	450.3	437.6	419.8	391.1
125°	465.3	464.4	455.9	*450.8*	445.6	438.6	428.7	420.7	410.4	393.5	366.2
127.5°	430.1	428.2	423.1	*417.9*	412.3	403.3	400.1	393.0	381.7	365.3	341.4
130°	397.2	396.3	389.3	*384.6*	378.9	371.9	369.1	363.4	355.4	340.4	317.9
132.5°	363.0	362.0	357.8	*353.1*	348.4	341.4	339.9	334.8	326.8	314.6	293.5
135°	332.4	331.5	326.8	*321.6*	319.3	314.1	312.2	308.0	300.5	288.3	270.0
137.5°	302.9	302.4	297.7	*293.5*	290.6	286.9	285.0	281.3	275.6	264.8	247.9
140°	276.1	273.7	270.0	*266.2*	263.4	259.7	258.7	255.4	251.2	240.9	228.7
142.5°	249.3	247.9	245.1	*241.8*	239.9	235.7	233.4	232.0	226.3	218.3	208.5
145°	223.0	223.0	220.7	*218.3*	215.5	212.7	210.8	209.4	204.7	197.7	188.3
147.5°	201.0	201.0	199.1	*198.1*	195.8	192.0	190.6	189.2	185.0	179.4	171.9
150°	182.2	181.2	179.8	*178.4*	176.5	173.3	170.9	169.5	166.2	162.0	154.9
152.5°	163.4	163.4	162.5	*160.6*	159.2	156.8	154.9	153.1	150.7	146.0	140.4
155°	147.4	147.4	146.0	*145.1*	144.1	142.3	140.4	138.5	135.7	131.9	127.7
157.5°	134.3	134.3	133.4	*132.9*	131.0	130.1	128.2	126.3	123.5	120.2	116.4
160°	122.1	122.6	122.1	*121.6*	120.2	118.8	116.9	115.0	112.7	109.9	107.1
162.5°	112.2	112.7	111.8	*111.3*	110.3	108.9	107.1	106.1	104.2	101.0	98.1
165°	103.8	103.8	103.3	*102.8*	102.4	100.5	99.5	98.6	96.7	94.4	92.0
167.5°	97.2	97.2	96.7	*96.7*	95.8	94.8	93.4	92.5	90.6	89.2	86.4
170°	91.6	91.6	91.1	*90.6*	90.2	89.2	88.3	86.9	85.9	84.0	82.6
172.5°	86.9	86.9	86.4	*85.9*	85.9	84.5	84.0	83.1	82.2	80.8	79.4
175°	83.1	82.6	82.6	*82.2*	81.7	80.8	80.3	79.8	78.9	78.4	77.5
177.5°	79.8	79.8	79.4	*79.4*	78.9	77.9	77.9	77.5	77.0	76.5	76.1
180°	75.6	75.6	75.6	*75.6*	75.6	75.6	75.6	75.6	75.6	75.6	75.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	51.2	49.8	46.0	42.7	40.4	37.1	34.3	33.3	32.9	32.4	32.4
5°	56.3	53.5	47.0	40.9	35.2	30.5	26.3	22.1	18.8	16.9	16.0
7.5°	70.9	67.6	58.7	50.7	42.7	35.7	28.6	23.5	18.8	16.0	16.0
10°	90.2	85.5	74.2	62.9	53.1	42.7	34.3	27.2	23.0	20.7	20.7
12.5°	110.3	104.2	91.1	76.5	62.9	51.2	40.9	33.3	28.6	26.8	26.8
15°	134.3	126.3	109.4	91.1	74.7	60.6	48.8	40.4	34.7	32.4	31.9
17.5°	157.3	147.0	126.8	106.1	86.4	69.5	55.9	45.1	39.0	35.7	35.2
20°	181.7	169.0	145.1	119.7	97.2	76.5	60.1	48.4	40.4	36.6	36.2
22.5°	204.3	190.6	162.0	132.4	105.6	81.7	62.4	48.8	39.9	35.7	35.2
25°	230.1	214.6	180.8	146.0	114.6	85.9	64.3	48.8	39.4	34.7	34.3
27.5°	256.4	238.1	200.0	159.6	122.6	90.6	65.7	48.8	38.5	33.8	33.3
30°	284.1	263.9	218.3	173.7	131.0	94.4	67.1	48.4	38.0	32.9	32.4
32.5°	312.2	288.8	238.5	187.3	139.5	98.1	68.1	48.4	37.1	32.4	31.5
35°	340.9	313.7	258.7	201.4	147.0	101.4	68.6	47.9	36.6	31.5	31.0
37.5°	366.2	338.1	277.5	214.1	154.0	103.8	69.0	47.4	36.2	31.0	30.5
40°	392.1	361.5	295.3	225.4	159.2	105.2	68.6	47.0	35.2	30.5	30.1
42.5°	415.5	382.7	311.8	236.2	163.9	106.6	68.1	46.0	34.7	30.1	29.6
45°	438.1	403.3	327.3	245.6	168.1	107.1	67.1	45.5	34.3	30.1	29.6
47.5°	458.7	421.2	342.3	254.5	171.9	107.1	66.7	44.6	34.3	30.1	29.6
50°	476.1	439.0	354.5	262.5	174.2	106.6	65.7	44.1	34.3	30.1	29.6
52.5°	493.0	453.6	366.7	268.6	175.6	105.6	64.3	43.7	34.3	30.5	30.1
55°	506.6	466.7	377.0	275.2	177.0	104.7	63.4	43.2	34.3	30.5	30.5
57.5°	518.4	477.5	385.0	279.4	177.0	102.8	62.4	43.2	34.7	31.5	31.0
60°	529.6	487.4	393.5	283.1	177.0	101.4	61.5	43.2	35.2	31.9	31.5
62.5°	537.2	495.4	400.1	286.4	176.1	100.0	60.6	43.2	35.7	32.9	32.4
65°	544.7	502.9	406.2	289.2	175.6	98.6	60.6	43.7	36.6	34.3	33.8
67.5°	550.3	509.0	410.4	291.1	174.7	97.2	60.1	44.6	38.0	35.7	35.2
70°	555.0	513.7	415.5	292.5	173.7	96.3	60.6	46.0	39.4	37.1	37.1
72.5°	558.8	517.9	418.4	293.9	172.8	95.8	61.5	47.4	41.8	39.4	39.0
75°	*561.1*	*520.3*	*421.2*	*294.4*	*171.9*	*95.3*	*62.4*	*49.3*	*43.7*	*41.8*	*41.3*
76°	561.6	521.2	422.1	294.9	171.4	95.3	62.9	49.8	44.6	42.7	42.3
77.5°	563.0	522.6	423.1	294.9	170.9	95.3	63.9	51.2	46.0	44.1	44.1
80°	563.9	523.5	424.5	295.3	170.0	95.3	65.3	53.5	48.8	47.0	46.5
82.5°	563.5	524.0	424.9	294.4	169.5	95.8	67.1	55.9	51.6	49.8	49.3
85°	561.6	522.6	424.0	293.0	168.1	96.7	69.0	58.7	54.0	52.1	52.1
87.5°	558.3	519.3	421.7	291.1	167.2	97.2	70.9	61.0	56.8	54.9	54.9
90°	553.6	515.6	418.8	289.2	165.7	97.7	73.2	63.4	59.6	58.2	57.8
92.5°	548.0	510.9	415.1	286.4	164.8	98.6	75.1	66.2	62.4	60.6	60.6
95°	542.3	505.7	410.9	283.1	163.9	100.0	77.0	68.6	64.8	63.4	63.4
97.5°	534.3	498.7	405.2	279.4	162.5	100.5	79.4	70.9	67.6	65.7	65.7
100°	524.5	490.7	398.6	275.6	161.5	101.9	81.2	73.2	70.0	68.6	68.1
102.5°	514.6	481.3	391.6	271.4	160.1	102.4	83.1	75.6	71.8	70.4	70.4
105°	503.4	471.0	382.7	265.8	158.7	103.3	84.5	77.0	73.7	72.3	71.8
107.5°	490.2	457.8	373.8	260.6	157.3	104.2	85.9	78.4	75.1	73.7	73.2

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

Scaled Data Report

REPORT NUMBER: P1045936
CATALOG NUMBER: FFX-CLB-40-730-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	475.2	445.6	363.0	255.0	156.4	105.6	87.3	79.4	76.1	74.2	74.2
112.5°	457.8	428.2	351.2	248.4	156.4	107.5	88.3	80.3	76.5	74.7	74.7
115°	437.1	409.9	337.1	242.3	155.9	109.4	90.2	80.8	76.5	75.1	74.7
117.5°	417.0	390.7	323.0	236.2	157.3	112.7	92.0	81.7	76.5	74.7	74.7
120°	394.4	370.5	308.5	230.1	159.2	116.0	94.4	82.2	76.5	74.2	74.2
122.5°	370.9	348.9	294.4	224.4	160.6	119.7	96.3	83.1	76.1	73.7	73.2
125°	348.9	326.8	278.4	218.8	162.0	123.0	98.6	83.6	75.6	72.8	72.3
127.5°	324.5	307.6	264.4	212.7	162.9	125.8	100.5	84.0	75.1	71.8	71.4
130°	303.3	286.9	250.3	206.1	162.0	126.8	101.0	83.6	74.2	70.9	70.9
132.5°	279.8	266.7	234.8	197.7	159.6	126.8	101.4	83.6	73.7	70.4	70.0
135°	259.2	247.0	220.2	188.3	155.4	124.9	100.5	83.1	73.2	70.0	69.5
137.5°	239.9	228.2	204.7	178.4	149.3	121.6	98.6	82.2	72.8	69.5	69.0
140°	219.3	210.8	190.6	167.6	142.7	117.9	96.3	81.2	72.8	69.5	69.0
142.5°	200.5	193.5	175.1	155.9	134.3	112.2	93.4	79.8	72.3	69.5	69.0
145°	183.6	175.6	161.5	144.1	125.8	107.1	90.6	78.9	71.8	69.5	69.0
147.5°	167.2	160.1	148.4	133.4	118.3	101.9	87.8	77.5	71.8	69.5	69.0
150°	150.7	146.0	135.7	123.5	109.9	96.7	85.0	76.5	71.8	70.0	69.5
152.5°	136.6	133.4	124.4	114.6	102.8	91.6	82.2	75.6	71.8	70.0	70.0
155°	124.9	121.6	114.1	105.2	96.7	87.3	80.3	74.7	71.8	70.4	70.0
157.5°	113.2	110.8	104.7	98.1	91.1	84.0	78.4	74.2	71.8	70.4	70.4
160°	104.2	101.9	97.2	92.0	86.4	81.2	76.5	73.2	71.8	70.9	70.9
162.5°	96.7	94.8	91.1	86.9	82.6	78.4	75.1	72.8	71.8	70.9	70.9
165°	90.6	89.2	85.9	82.6	79.8	76.5	74.2	72.8	71.8	71.4	71.4
167.5°	85.5	84.5	82.2	79.8	77.5	75.1	73.2	72.3	71.8	71.8	71.8
170°	81.7	80.8	79.4	77.5	75.6	74.2	72.8	72.3	72.3	71.8	72.3
172.5°	78.9	78.4	77.0	75.6	74.7	73.2	72.8	72.3	72.8	72.8	72.8
175°	77.0	76.5	75.6	74.7	74.2	73.2	73.2	72.8	73.2	73.7	73.7
177.5°	75.6	75.1	74.7	74.7	74.2	73.7	73.7	74.2	74.7	74.7	74.7
180°	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6

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

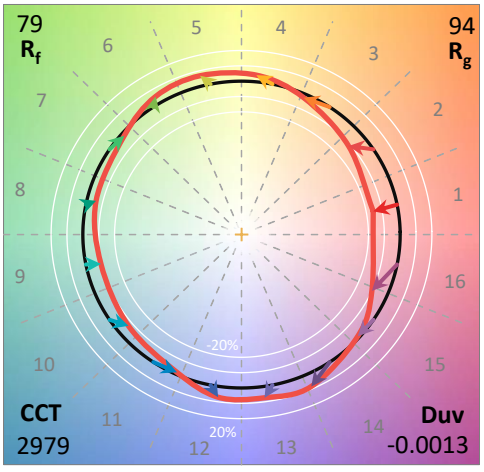
Test Information

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

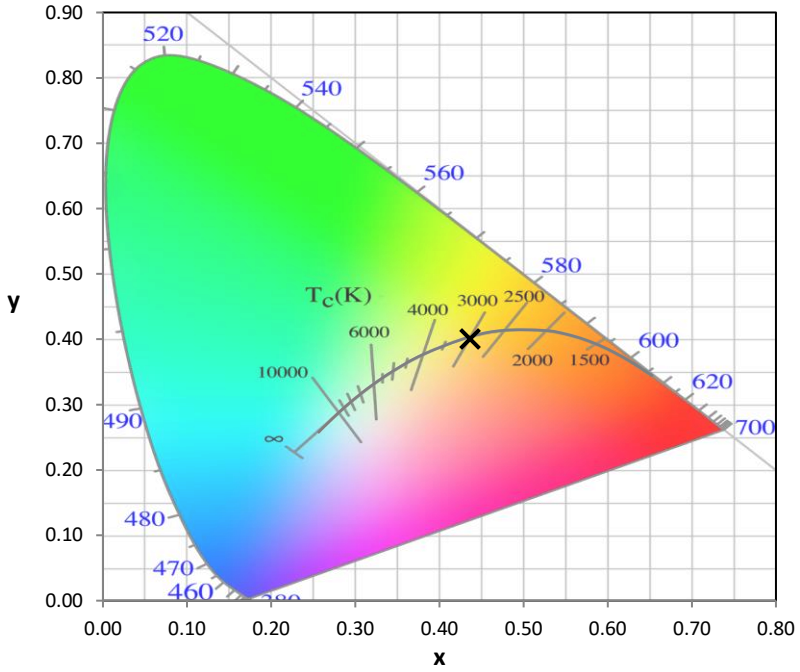
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

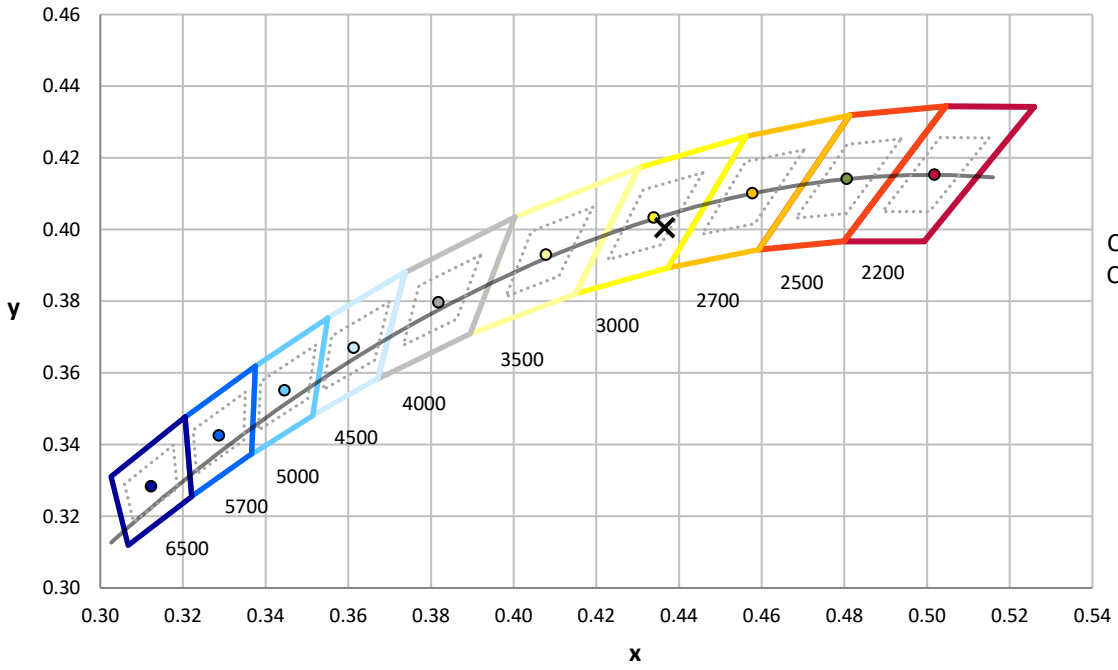
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

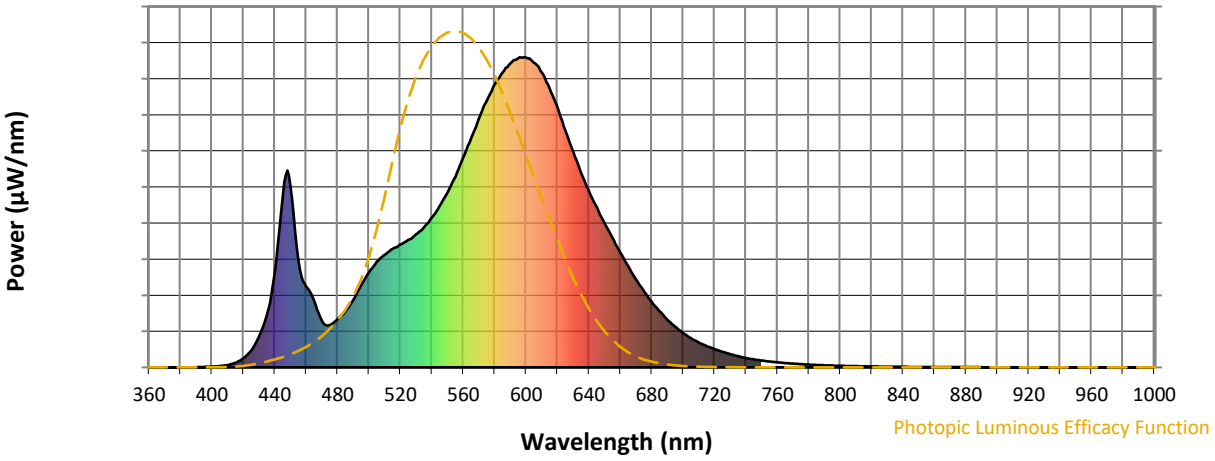


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

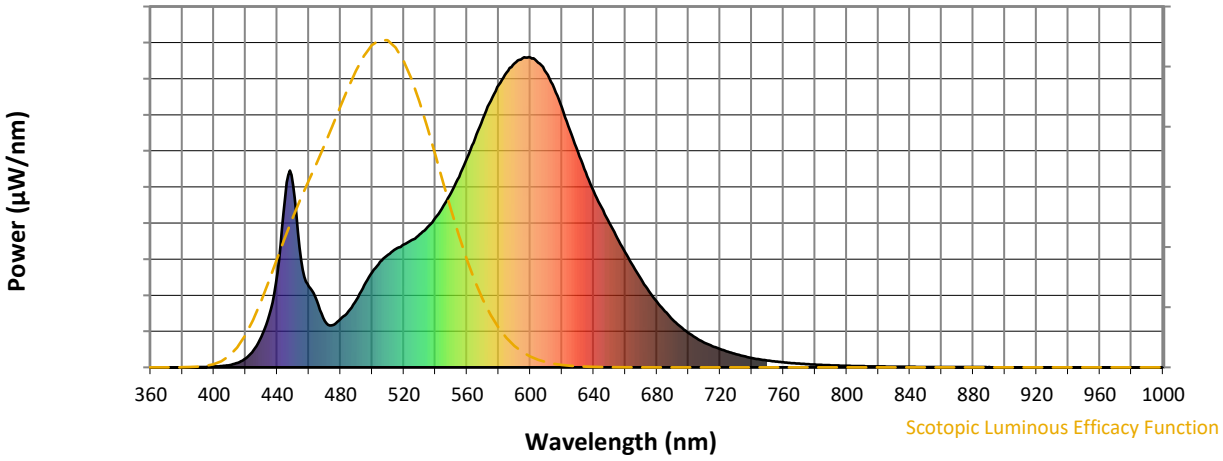


Photopic Lumens: NR

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

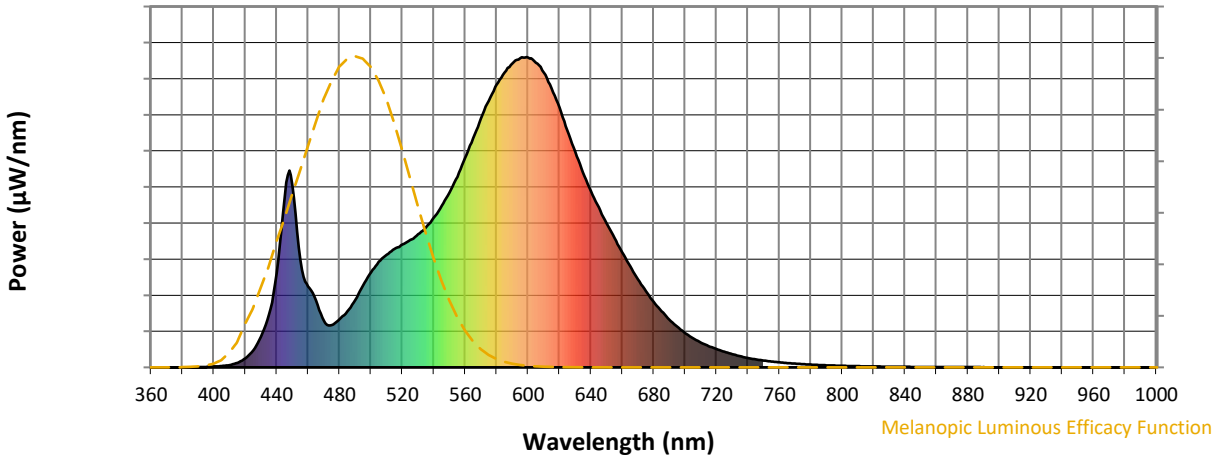


Scotopic Lumens: NR **S/P: 1.29**

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			

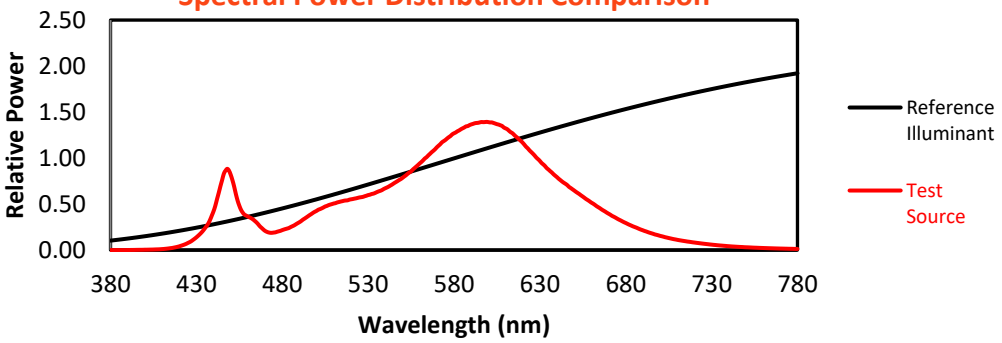
REPORT NUMBER: SP1-2501-332-9

TM-30-18

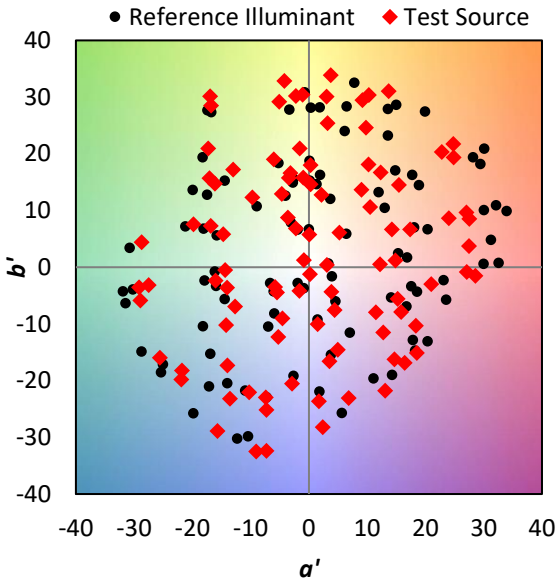
Summary

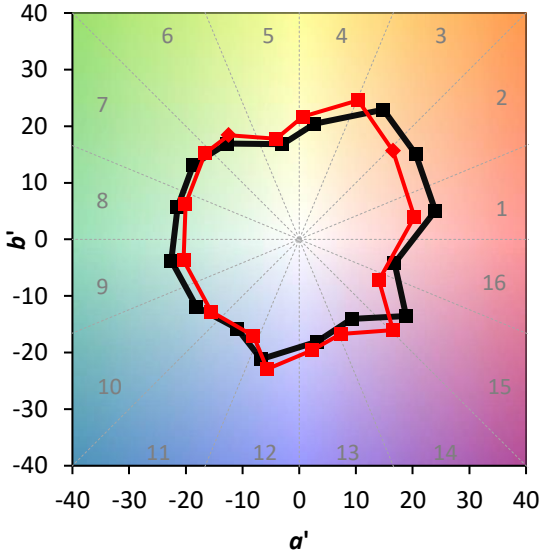
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

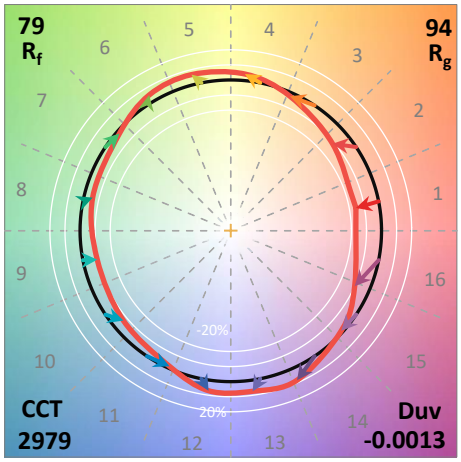
Spectral Power Distribution Comparison

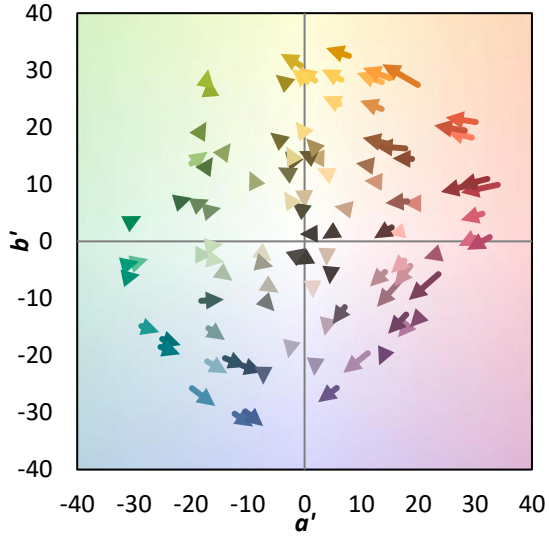


Color Vector Graphics







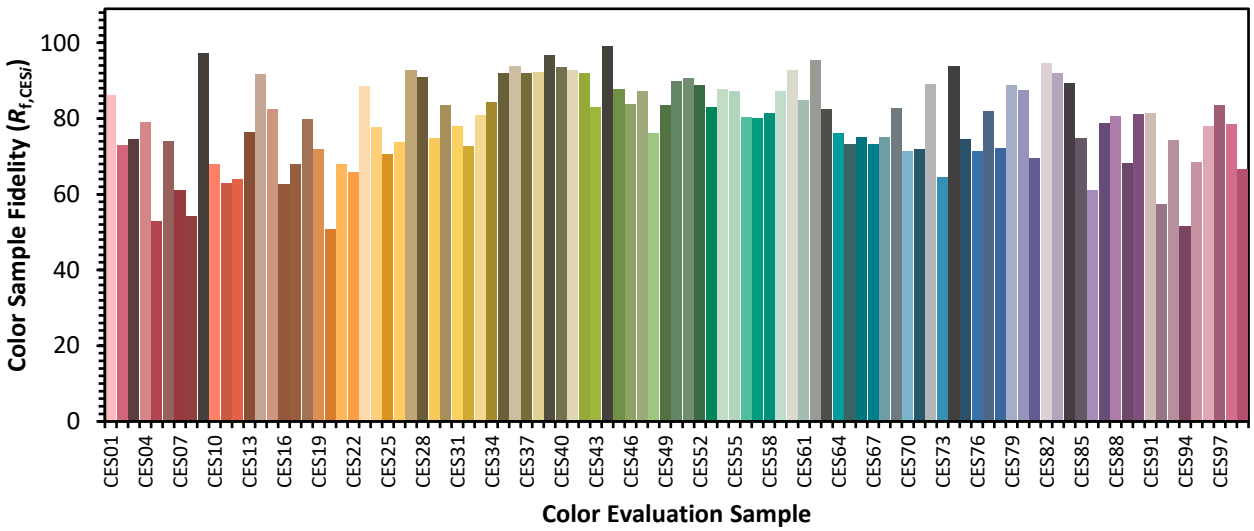


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

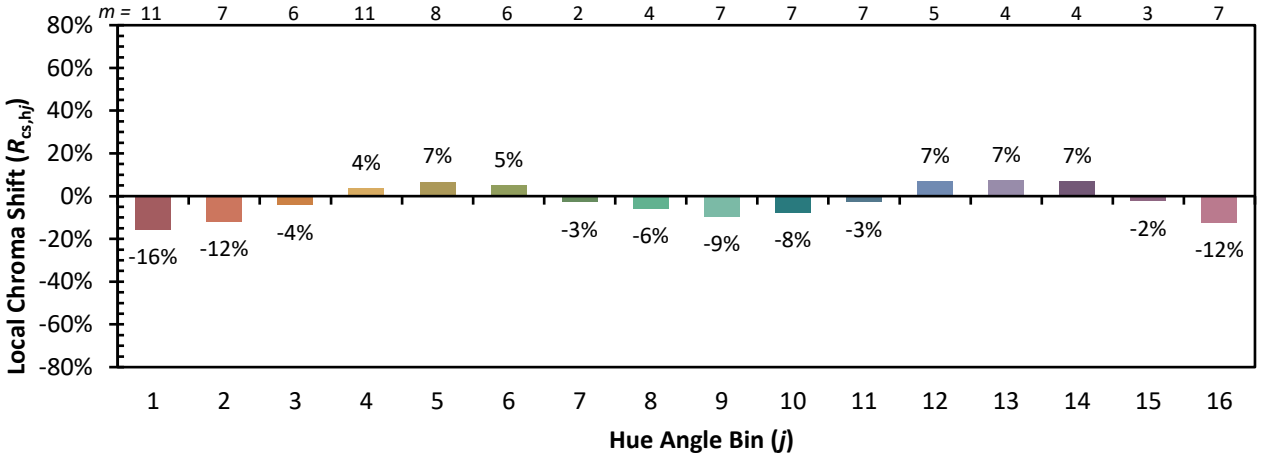
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

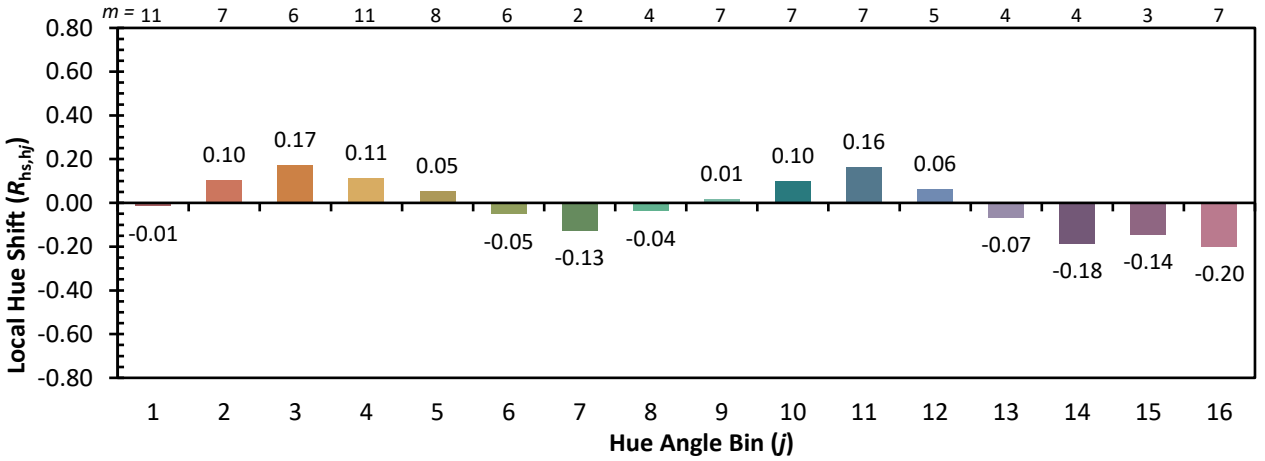


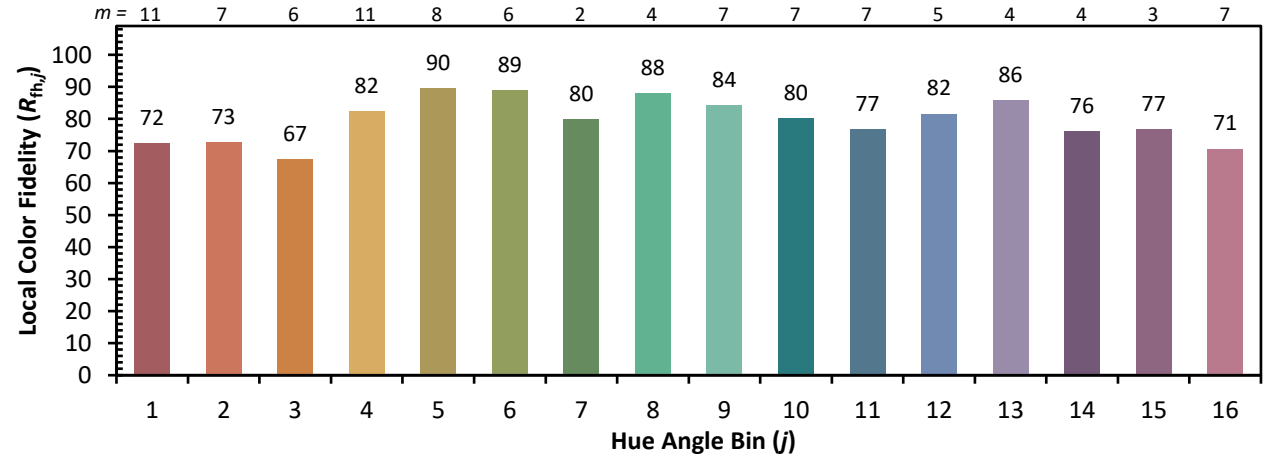
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Color Rendition by Hue-Angle Bin



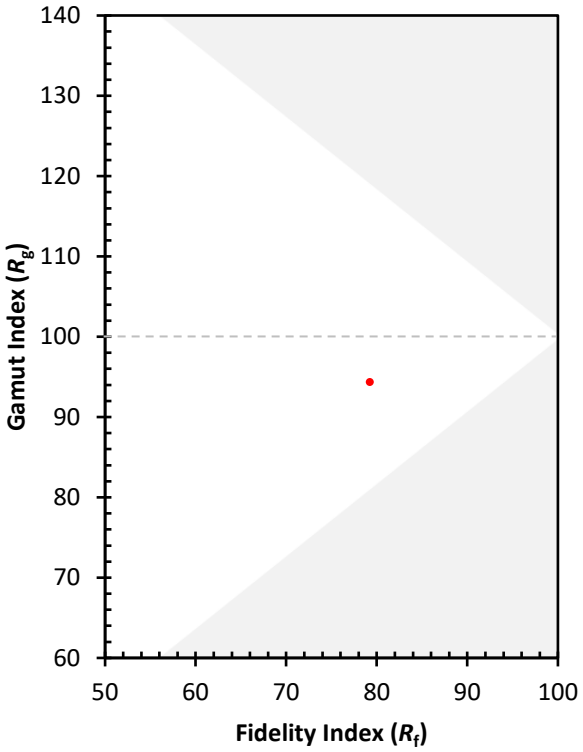


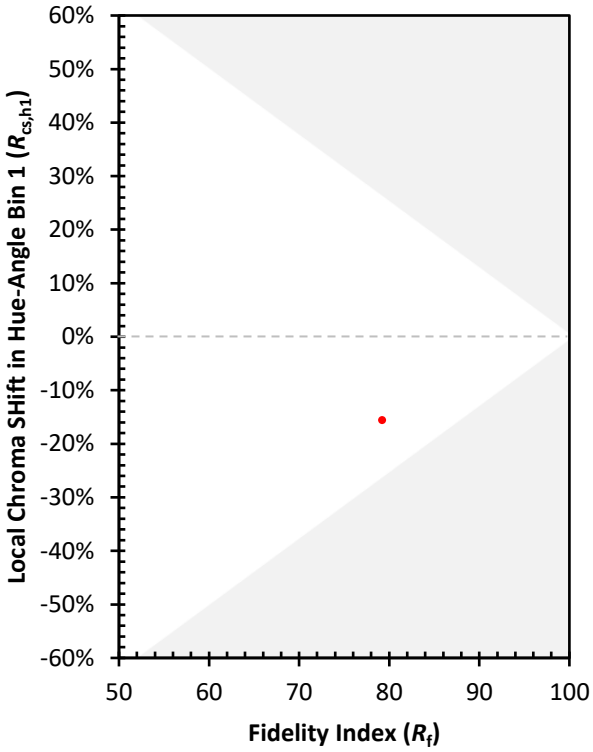


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Measure Comparisons





(END OF REPORT)