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: P1045982

Luminaire Tested: **FFX-CLB-30-730-U-PG-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:	P1045982
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-PG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ PRISMATIC 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:	3359.7 lumens
Efficiency:	N/A
Efficacy:	109.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

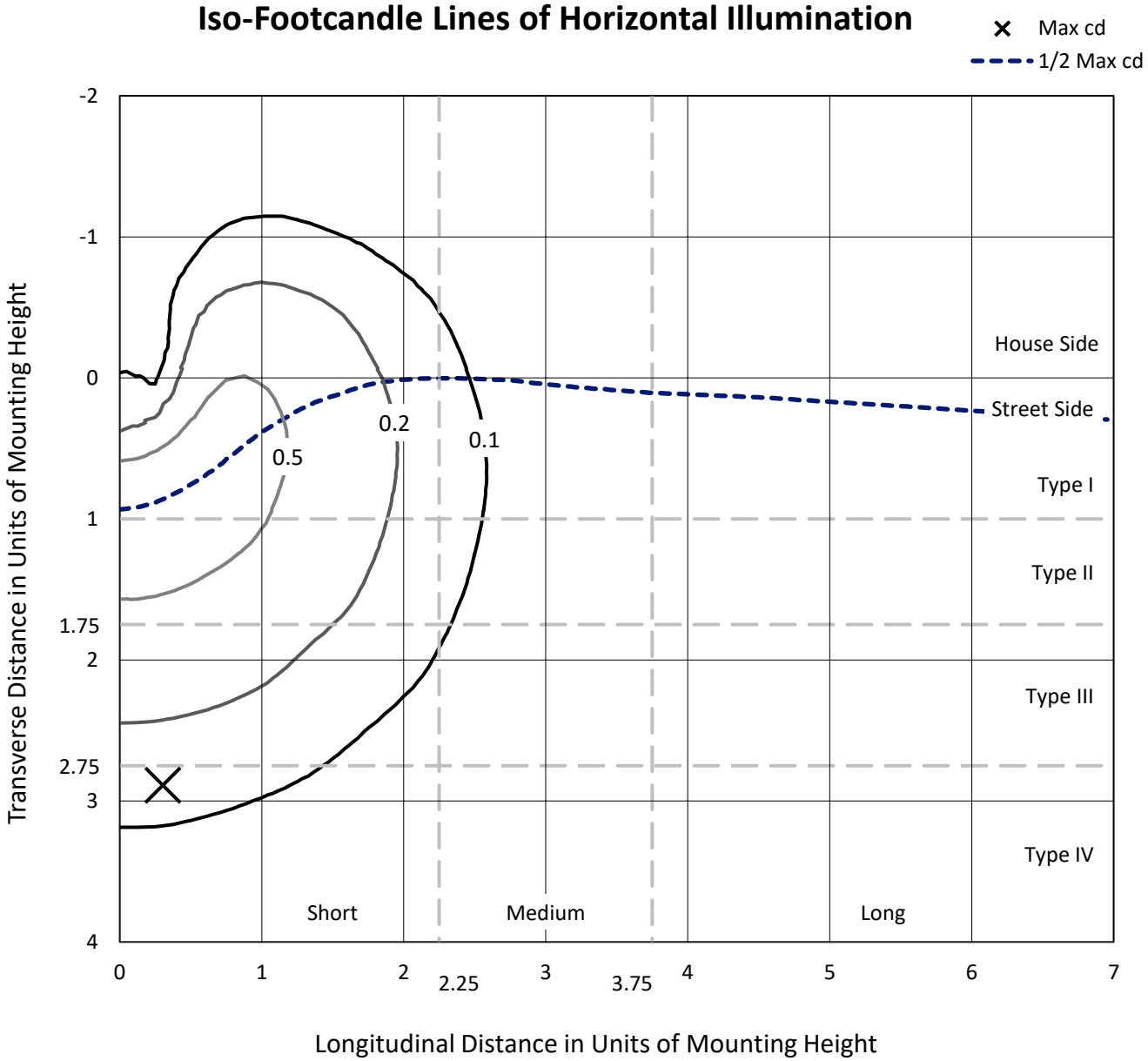


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Iso-Footcandle Lines of Horizontal Illumination



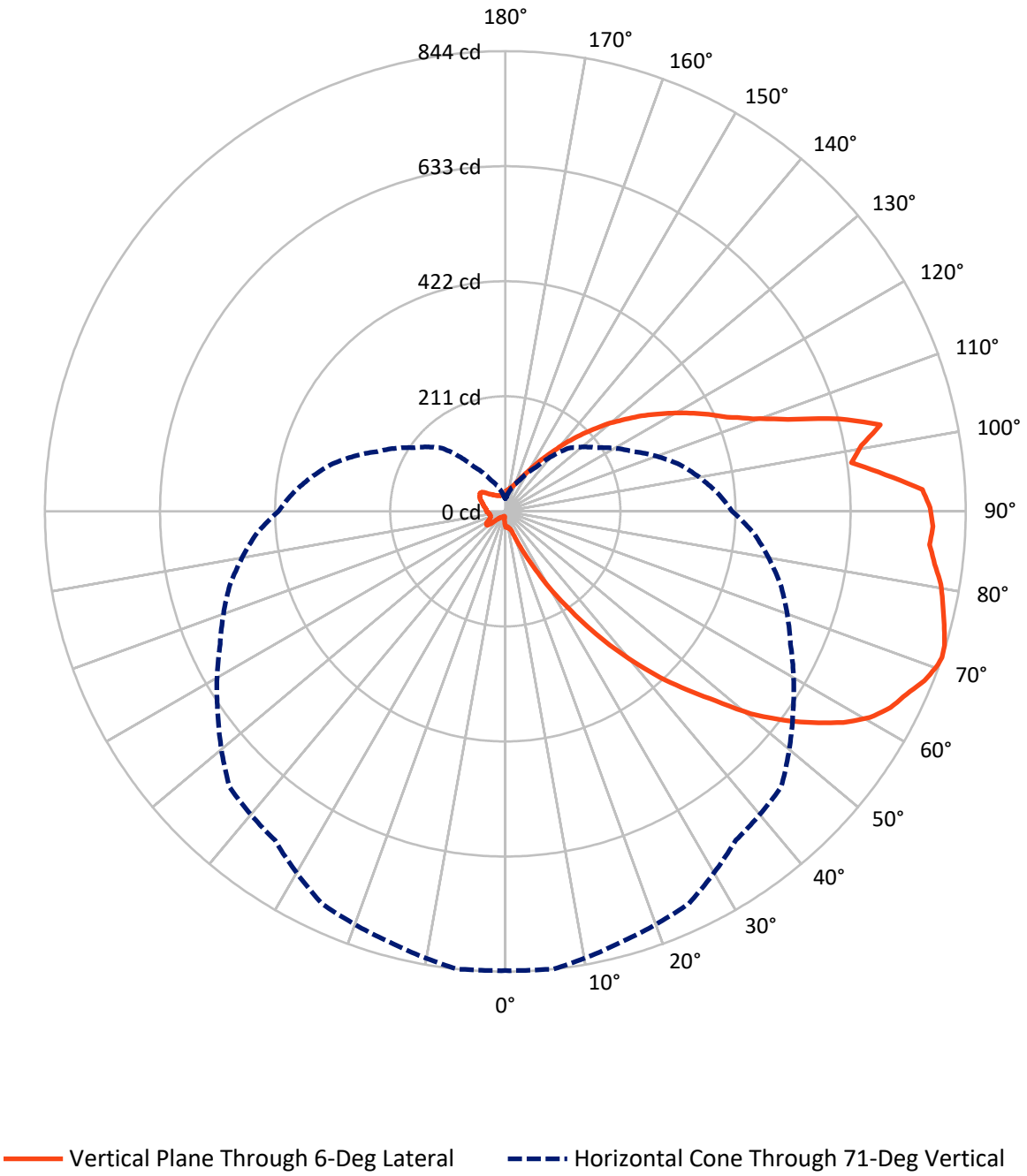
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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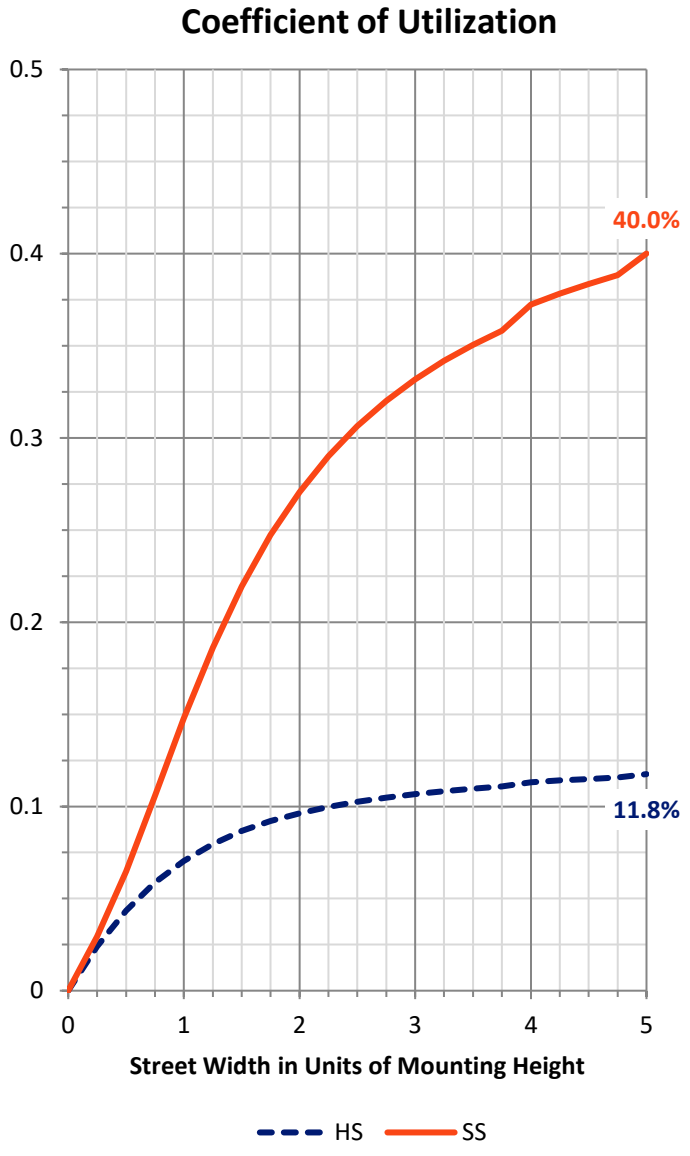
REPORT NUMBER: P1045982
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.4	342.1	773.5
	% Fixture	12.8	10.2	23.0
Street Side	Lumens	1573.8	1012.4	2586.2
	% Fixture	46.8	30.1	77.0
Total	Lumens	2005.2	1354.5	3359.7
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.1
10°-20°	7.0	0.2
20°-30°	31.9	0.9
30°-40°	106.7	3.2
40°-50°	217.4	6.5
50°-60°	334.4	10.0
60°-70°	416.2	12.4
70°-80°	445.1	13.2
80°-90°	444.3	13.2
90°-100°	401.5	12.0
100°-110°	351.2	10.5
110°-120°	239.4	7.1
120°-130°	169.1	5.0
130°-140°	102.5	3.1
140°-150°	52.0	1.5
150°-160°	24.2	0.7
160°-170°	11.1	0.3
170°-180°	3.4	0.1
0°-90°	2005.2	59.7
0°-180°	3359.7	100.0



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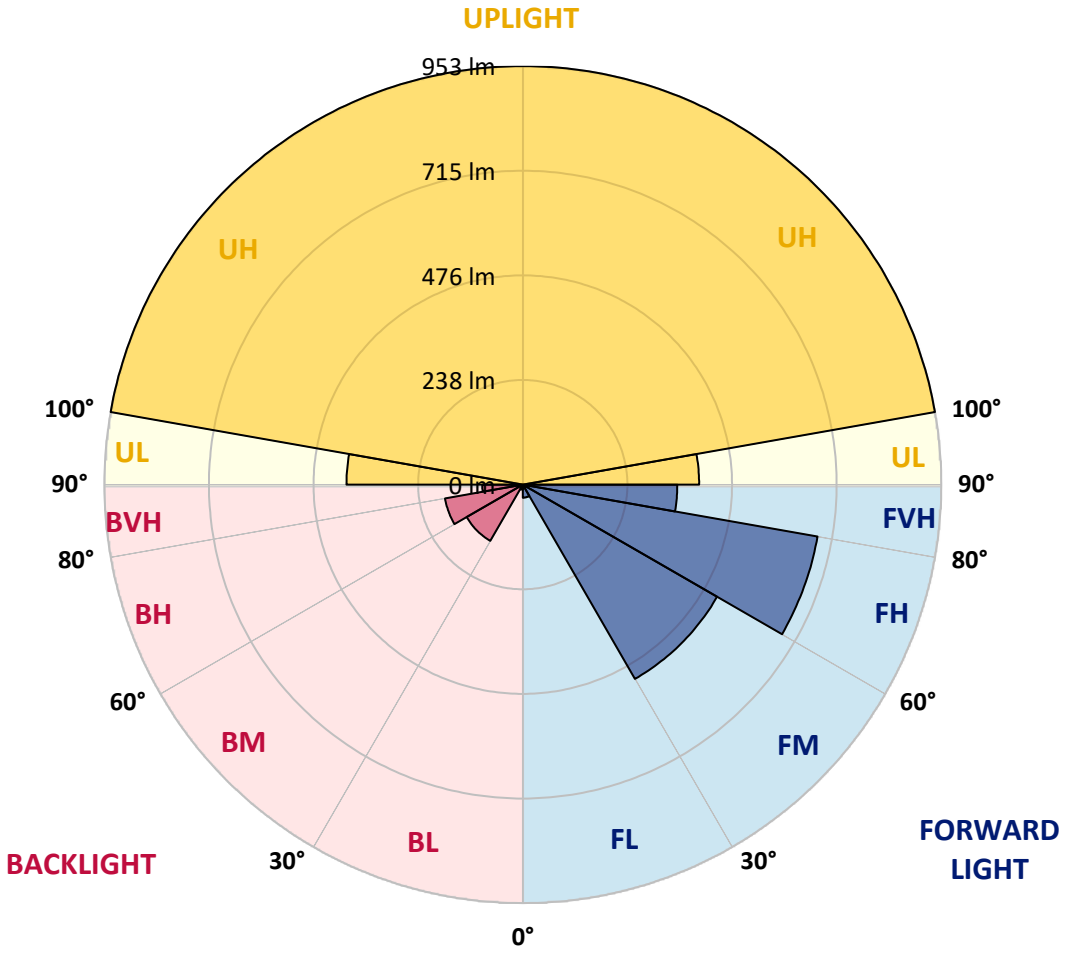
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	29.7	0.9			
FM	(30°-60°)	510.8	15.2			
FH	(60°-80°)	681.4	20.3			G1/1800
FVH	(80°-90°)	351.9	10.5			G3/500
BL	(0°-30°)	11.4	0.3	B0/110		
BM	(30°-60°)	147.7	4.4	B0/220		
BH	(60°-80°)	179.8	5.4	B1/500		G1/500
BVH	(80°-90°)	92.4	2.8			G1/100
UL	(90°-100°)	401.5	12.0		U3/500	
UH	(100°-180°)	953.0	28.4		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27.4	27.4	*27.4*	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
2.5°	29.6	29.6	*29.6*	29.6	29.6	29.6	29.2	28.5	28.1	27.7	27.4
5°	28.1	28.1	*28.1*	28.1	28.1	28.1	28.1	27.7	27.4	26.6	25.9
7.5°	28.1	28.1	*28.1*	28.1	27.7	27.4	27.0	26.6	26.3	24.8	23.4
10°	30.6	31.0	*30.6*	30.6	29.6	28.5	27.7	26.6	25.9	25.2	23.4
12.5°	32.5	32.5	*32.5*	32.1	31.4	30.6	29.2	27.4	25.9	24.4	23.0
15°	33.6	33.6	*33.6*	33.6	32.8	31.7	30.6	29.2	27.7	25.9	24.1
17.5°	37.9	37.9	*37.9*	37.6	36.9	36.1	35.4	34.7	33.6	31.7	29.9
20°	50.0	51.1	*50.7*	49.6	48.9	48.2	48.5	47.8	47.1	44.5	41.6
22.5°	69.3	70.8	*70.4*	70.8	69.7	69.0	68.6	69.3	67.9	64.2	58.7
25°	97.4	97.4	*96.3*	99.2	99.6	96.0	96.7	96.3	95.2	88.7	79.9
27.5°	128.8	128.1	*127.7*	132.4	133.2	131.7	133.2	130.6	127.0	119.7	108.7
30°	165.3	168.2	*169.7*	170.4	172.6	174.0	175.9	173.7	163.8	155.1	139.7
32.5°	211.6	209.8	*209.4*	217.1	221.1	221.5	225.8	219.6	208.7	192.3	172.2
35°	262.7	258.3	*259.0*	263.8	270.4	275.1	278.4	266.3	255.0	233.5	207.2
37.5°	310.9	311.2	*310.9*	312.7	325.1	326.5	327.3	313.8	297.4	275.1	242.3
40°	360.1	360.8	*362.7*	368.5	381.6	379.1	373.2	361.2	340.0	314.9	276.2
42.5°	410.8	415.6	*416.7*	419.6	428.7	428.0	418.1	404.6	380.2	348.8	305.4
45°	465.2	464.5	*466.3*	470.3	477.6	477.6	460.1	440.4	413.7	378.4	331.7
47.5°	516.6	522.1	*518.8*	528.7	525.0	527.6	497.7	473.6	444.4	402.4	353.5
50°	581.6	584.5	*583.4*	582.3	571.4	571.4	540.7	508.2	475.4	425.8	375.4
52.5°	636.7	637.8	*635.9*	631.6	616.2	611.1	575.0	537.4	502.8	453.1	396.6
55°	687.8	680.5	*683.7*	676.8	652.7	647.3	613.0	559.7	526.8	472.9	414.8
57.5°	725.3	729.3	*730.4*	715.5	691.4	669.1	646.2	586.3	545.1	491.5	426.9
60°	757.4	768.4	*767.7*	745.0	723.9	684.1	671.3	609.7	557.1	507.9	440.0
62.5°	781.5	793.2	*792.5*	774.2	755.2	699.4	685.2	623.5	564.4	516.3	449.9
65°	805.2	810.7	*808.2*	800.9	778.2	713.7	698.3	629.7	570.6	519.9	453.5
67.5°	829.3	828.9	*828.6*	818.4	793.9	726.8	708.9	638.9	576.8	523.9	456.1
70°	841.4	842.1	*841.7*	820.2	797.6	735.5	714.7	643.6	578.3	523.9	458.3
71°	*842.1*	*843.2*	*843.9*	*818.0*	*794.3*	*736.3*	*715.1*	*643.6*	*576.8*	*522.8*	*457.2*
72.5°	837.0	842.4	*841.7*	812.5	789.5	735.2	712.6	640.7	574.6	518.5	453.9
75°	825.7	835.5	*831.1*	801.6	777.5	727.9	705.6	637.8	569.2	512.6	451.0
77.5°	815.8	827.1	*819.8*	792.5	770.9	722.8	702.0	638.5	565.2	509.0	449.9
80°	809.2	815.4	*809.6*	787.0	765.5	716.9	699.4	638.9	564.1	507.1	446.6
82.5°	799.4	796.8	*792.8*	775.0	753.1	706.4	689.2	633.0	561.5	503.5	442.9
85°	790.6	780.1	*780.1*	764.0	741.7	698.0	677.2	626.1	557.1	499.9	438.6
87.5°	795.7	781.5	*784.4*	769.1	744.7	699.1	675.0	625.4	559.0	500.6	436.0
90°	790.6	777.1	*778.6*	762.5	734.1	687.8	658.6	610.8	547.3	490.4	426.9
92.5°	781.9	767.7	*765.5*	749.0	720.2	676.4	645.8	601.3	538.2	482.3	423.6
95°	714.4	704.2	*699.8*	688.1	665.9	627.5	603.5	560.8	498.0	446.9	396.2
97.5°	645.1	646.9	*640.7*	626.8	602.4	572.5	545.8	505.0	452.1	407.9	358.7
100°	672.4	669.9	*663.7*	645.1	619.5	586.0	554.6	515.2	463.7	424.0	369.6
102.5°	702.3	708.2	*705.6*	682.3	653.5	626.5	602.7	563.3	506.8	464.8	406.8
105°	620.6	632.3	*634.8*	616.6	595.4	572.8	552.0	524.3	475.4	432.4	386.7
107.5°	541.1	542.9	*544.7*	530.9	520.3	500.2	479.4	454.2	417.0	384.2	339.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	15°	25°	35°	45°	55°	65°	75°	85°
110°	486.0	487.8	*484.9*	479.1	468.1	452.8	429.8	412.3	379.8	352.1	311.6
112.5°	442.2	444.0	*441.8*	434.5	424.7	412.7	388.6	374.0	346.2	320.3	283.9
115°	414.1	416.3	*412.7*	405.0	396.6	390.0	369.2	347.7	322.5	299.5	268.2
117.5°	387.5	391.9	*383.5*	381.3	375.1	368.5	344.8	325.8	303.9	283.1	258.0
120°	358.3	361.9	*355.0*	352.4	348.8	342.2	320.0	302.8	285.3	266.7	242.6
122.5°	334.9	329.8	*326.5*	326.5	322.2	317.8	294.8	280.6	266.7	251.0	226.2
125°	308.3	301.4	*299.9*	302.5	297.0	291.2	272.9	260.1	249.6	233.9	209.4
127.5°	278.4	271.8	*271.8*	272.9	269.6	263.8	251.7	241.2	234.6	217.8	193.4
130°	250.3	246.6	*247.4*	244.8	241.5	236.8	228.0	220.4	214.9	198.1	180.6
132.5°	216.7	220.7	*220.7*	216.4	215.6	212.0	205.0	201.4	193.0	179.1	164.5
135°	193.0	196.3	*195.9*	191.9	191.5	189.4	184.3	181.0	172.9	161.3	149.2
137.5°	172.9	172.9	*172.2*	169.7	168.2	167.8	163.1	159.8	152.1	144.1	134.3
140°	153.2	150.0	*148.9*	149.2	147.0	146.7	142.7	138.6	135.0	127.3	119.3
142.5°	132.8	130.6	*129.5*	128.1	127.3	126.2	123.7	120.4	116.8	111.6	104.3
145°	113.5	113.5	*112.7*	111.3	111.3	109.8	107.3	105.4	102.2	96.7	90.8
147.5°	98.5	97.4	*97.4*	97.1	96.0	95.2	93.0	90.5	88.3	83.9	78.4
150°	84.6	84.6	*83.9*	84.6	83.9	82.8	81.4	79.2	76.6	73.3	69.0
152.5°	73.7	74.1	*73.3*	74.4	73.7	73.0	71.1	69.7	66.8	63.8	60.9
155°	65.7	66.0	*65.7*	65.3	65.3	64.2	63.5	61.3	59.5	56.9	54.4
157.5°	58.4	58.7	*58.7*	58.7	58.7	57.6	56.2	54.7	53.3	51.1	48.9
160°	53.6	53.3	*53.3*	52.9	52.5	52.2	51.1	49.6	48.5	46.7	44.9
162.5°	48.9	48.9	*48.9*	48.5	48.2	47.8	47.1	45.6	44.5	43.1	41.6
165°	45.6	45.6	*45.6*	45.6	44.9	44.5	43.8	42.7	42.0	40.5	39.0
167.5°	43.4	43.4	*43.4*	43.1	42.7	42.3	42.0	40.9	40.1	39.0	37.9
170°	41.6	41.6	*41.6*	41.6	41.2	40.5	40.1	39.4	38.7	37.9	36.9
172.5°	39.8	39.8	*39.8*	39.8	39.4	39.4	39.0	38.3	37.9	36.9	36.5
175°	38.3	38.3	*38.3*	38.3	37.9	37.9	37.6	37.2	36.9	36.5	35.8
177.5°	37.2	37.2	*37.2*	37.2	36.9	36.9	36.9	36.5	36.1	35.8	35.8
180°	35.8	35.8	*35.8*	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
2.5°	27.4	27.4	26.6	26.3	25.9	25.2	24.4	23.4	23.4	23.4	23.0
5°	25.5	25.2	24.4	23.4	23.0	22.6	21.9	20.4	18.6	17.1	17.1
7.5°	23.7	21.9	20.1	19.3	18.2	16.4	14.6	12.4	9.9	9.5	9.5
10°	22.3	21.2	19.0	17.1	15.3	15.0	13.5	11.3	10.2	9.1	9.1
12.5°	21.9	21.2	18.6	16.4	14.2	13.1	12.0	10.9	9.9	9.1	9.1
15°	23.0	22.3	19.7	17.1	14.6	13.1	11.7	10.6	10.2	9.9	9.9
17.5°	28.8	27.7	24.1	20.1	16.8	14.6	12.8	11.7	11.3	10.9	10.9
20°	39.0	37.2	32.1	26.6	21.5	16.8	14.2	12.4	12.0	11.7	11.7
22.5°	55.5	52.2	43.4	35.0	27.4	21.2	16.4	13.1	12.0	11.7	11.7
25°	75.5	71.1	58.4	46.0	34.7	27.0	20.1	15.0	12.0	11.3	11.3
27.5°	102.2	94.5	77.3	61.7	46.3	34.3	25.2	17.9	13.1	11.3	10.9
30°	130.3	120.8	98.9	78.1	58.7	43.1	31.0	21.5	15.0	11.3	10.9
32.5°	160.9	148.1	124.1	98.1	73.0	53.3	37.9	25.2	17.1	12.0	11.3
35°	192.3	178.0	148.1	119.3	87.6	63.5	45.2	29.2	18.6	12.8	12.0
37.5°	224.0	208.0	175.5	138.3	101.8	74.1	52.5	33.6	20.1	13.5	12.8
40°	255.8	236.4	200.7	156.2	115.7	84.6	59.5	37.2	21.2	14.6	14.2
42.5°	280.6	260.9	221.5	171.1	130.3	94.1	66.4	40.1	22.3	16.4	15.7
45°	303.2	282.4	239.0	184.6	141.6	105.4	74.4	44.9	24.4	18.6	17.9
47.5°	326.2	305.7	257.2	197.8	152.5	116.8	83.9	50.0	30.3	24.1	23.7
50°	346.2	323.6	276.9	215.6	166.4	127.3	93.8	56.2	35.8	35.0	35.4
52.5°	365.6	343.0	293.7	228.8	175.9	140.1	103.3	58.7	40.5	41.2	42.0
55°	387.1	360.8	307.2	239.0	181.3	148.5	108.7	60.9	44.9	42.0	41.2
57.5°	401.7	371.4	318.2	250.3	187.2	153.6	109.1	63.5	48.5	40.5	39.4
60°	411.6	377.3	324.0	256.5	195.2	158.3	108.0	63.8	50.7	37.2	33.9
62.5°	418.1	384.9	329.1	258.0	201.4	162.0	107.6	62.4	50.0	33.2	30.6
65°	421.0	391.5	333.8	258.7	202.5	164.5	107.6	61.7	48.9	29.2	26.3
67.5°	421.0	393.7	335.7	260.1	201.8	165.3	104.3	63.8	47.4	27.7	24.1
70°	418.9	392.6	333.1	259.8	203.2	164.5	100.7	63.8	45.2	27.7	23.0
71°	*415.9*	*390.4*	*331.3*	*259.4*	*203.6*	*163.8*	*99.2*	*63.5*	*44.1*	*27.0*	*23.4*
72.5°	411.9	387.1	328.0	258.7	202.5	161.6	96.3	63.8	43.1	26.6	23.7
75°	407.5	384.6	325.5	255.8	202.1	158.3	91.2	62.8	42.7	27.0	24.4
77.5°	406.1	384.9	324.0	255.0	202.1	156.5	87.6	62.0	42.0	27.4	25.9
80°	402.8	384.2	321.1	253.2	201.4	153.2	86.5	62.0	41.2	27.7	26.6
82.5°	399.5	382.4	318.5	251.4	200.3	148.9	85.4	61.7	40.5	28.8	28.1
85°	396.6	382.0	318.5	250.3	199.9	146.3	85.0	61.3	40.1	29.9	29.2
87.5°	396.6	383.8	321.8	253.2	203.2	146.3	86.5	62.0	40.5	31.4	31.0
90°	389.3	375.8	316.7	251.4	204.3	146.7	87.9	63.8	42.0	32.8	32.1
92.5°	387.1	372.2	315.2	253.2	205.8	146.7	89.8	65.7	43.1	33.6	32.8
95°	363.0	346.2	296.6	240.4	196.7	142.7	90.5	65.3	43.8	33.9	33.6
97.5°	329.5	311.2	264.5	213.8	174.0	128.1	82.5	61.3	43.4	35.0	34.3
100°	340.8	319.2	270.4	217.5	171.1	125.5	81.0	59.5	44.5	36.5	35.8
102.5°	372.2	348.8	297.4	240.8	186.4	138.6	90.5	63.1	46.7	38.3	37.2
105°	353.5	327.6	287.1	233.1	181.7	138.6	90.8	64.2	48.9	39.8	39.0
107.5°	312.3	288.2	252.8	207.6	166.4	128.1	86.1	62.4	50.7	41.6	40.5

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

Scaled Data Report

REPORT NUMBER: P1045982
CATALOG NUMBER: FFX-CLB-30-730-U-PG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	288.6	262.7	230.2	189.4	154.7	118.9	82.8	61.3	51.8	43.8	42.3
112.5°	263.4	241.2	209.8	174.0	144.1	109.8	80.6	60.9	52.5	46.0	44.5
115°	249.2	226.2	199.2	164.5	137.2	106.9	79.9	62.8	55.1	48.9	47.4
117.5°	236.8	217.8	193.7	157.3	132.4	105.8	81.4	64.9	56.9	51.4	49.6
120°	224.0	206.5	184.6	151.4	128.4	102.2	81.7	66.0	58.4	53.6	52.5
122.5°	216.4	196.7	175.1	146.3	123.7	99.6	81.4	67.5	58.7	54.7	54.7
125°	202.1	186.4	164.9	139.7	116.8	98.1	81.4	66.8	59.8	56.2	55.5
127.5°	186.4	176.2	154.7	132.4	112.0	94.5	79.2	66.8	59.5	56.2	56.2
130°	171.8	162.7	145.2	122.6	107.6	89.4	75.9	63.5	57.3	55.1	55.1
132.5°	155.4	149.6	133.2	113.1	98.9	83.2	71.5	58.7	53.6	51.8	51.8
135°	140.5	135.0	119.7	102.9	90.1	77.3	66.4	55.5	49.3	47.1	47.1
137.5°	126.6	121.5	108.0	93.8	82.1	71.5	61.3	52.2	46.0	43.4	43.8
140°	112.4	106.2	97.1	85.0	74.4	66.0	56.2	48.9	43.1	40.9	40.5
142.5°	99.6	94.9	86.5	76.3	67.1	60.6	51.8	45.6	40.9	38.7	38.3
145°	87.9	83.9	76.6	68.2	60.9	54.7	47.8	42.7	38.7	36.9	36.5
147.5°	75.5	73.0	67.5	60.9	54.7	49.3	44.5	39.8	37.2	35.0	34.7
150°	66.4	64.6	60.2	54.7	50.0	45.6	42.0	37.6	35.4	33.9	33.6
152.5°	59.1	57.3	53.6	49.6	45.6	42.3	39.0	36.1	33.9	32.8	32.5
155°	52.9	51.4	48.5	45.2	42.0	39.0	36.5	34.3	32.8	31.7	31.7
157.5°	48.2	46.7	44.5	41.6	39.0	36.5	34.7	32.8	32.1	31.0	31.0
160°	44.1	43.1	41.2	38.7	36.5	34.7	33.2	31.7	31.4	30.6	30.6
162.5°	40.9	40.1	38.3	36.5	35.0	33.6	32.5	31.4	30.6	30.3	30.3
165°	38.7	37.9	36.9	35.4	33.9	32.8	32.1	31.0	30.6	30.6	30.3
167.5°	37.6	36.9	35.8	34.3	33.2	32.8	32.1	31.4	31.0	31.0	30.6
170°	36.5	36.1	35.4	34.3	33.2	32.8	32.5	31.7	31.7	31.4	31.4
172.5°	36.1	35.8	35.0	34.3	33.6	33.2	32.8	32.5	32.5	32.5	32.1
175°	35.8	35.8	35.0	34.3	33.9	33.9	33.6	33.2	33.2	33.2	33.2
177.5°	35.8	35.4	35.4	35.0	34.7	34.7	34.7	34.3	34.3	34.3	34.3
180°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8

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

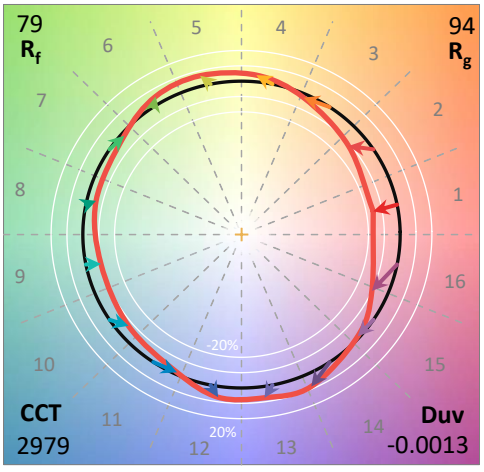
Test Information

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

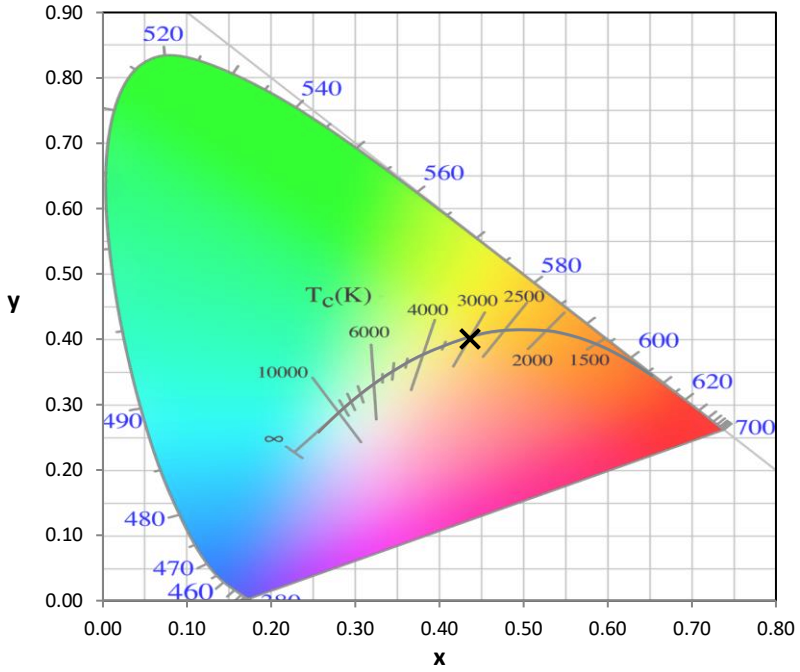
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

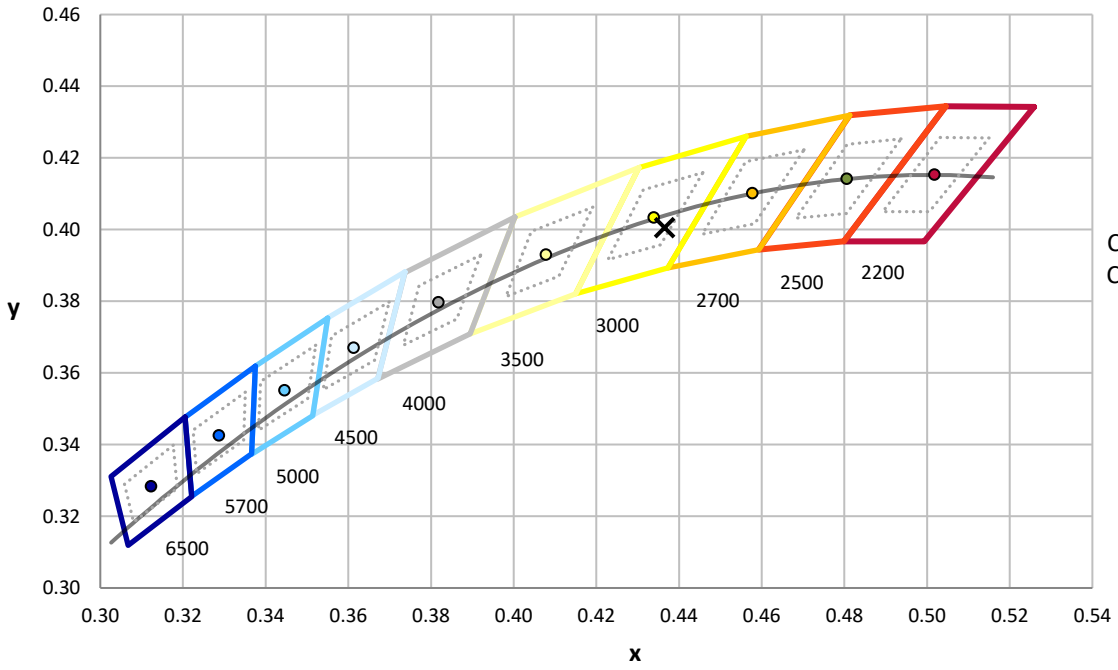
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

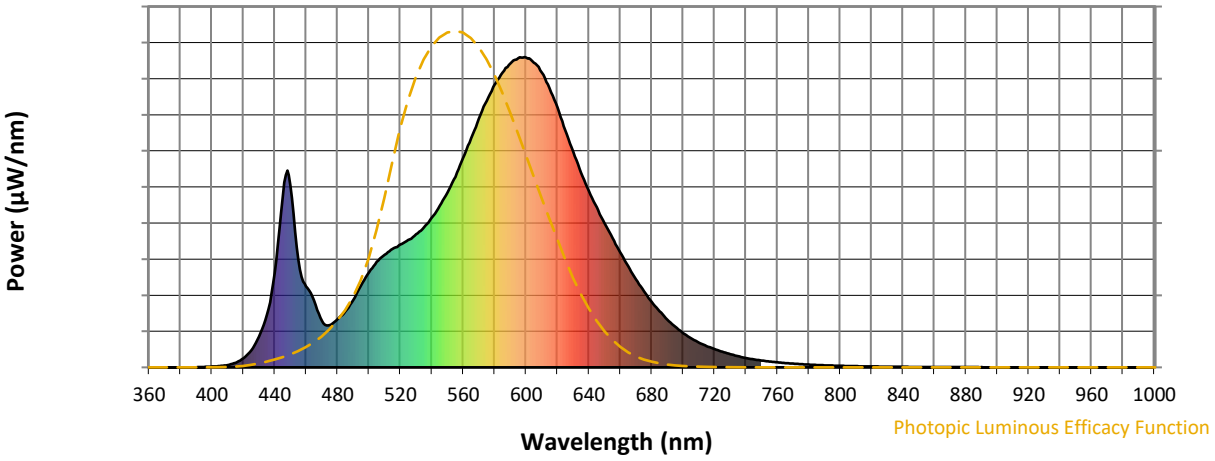


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

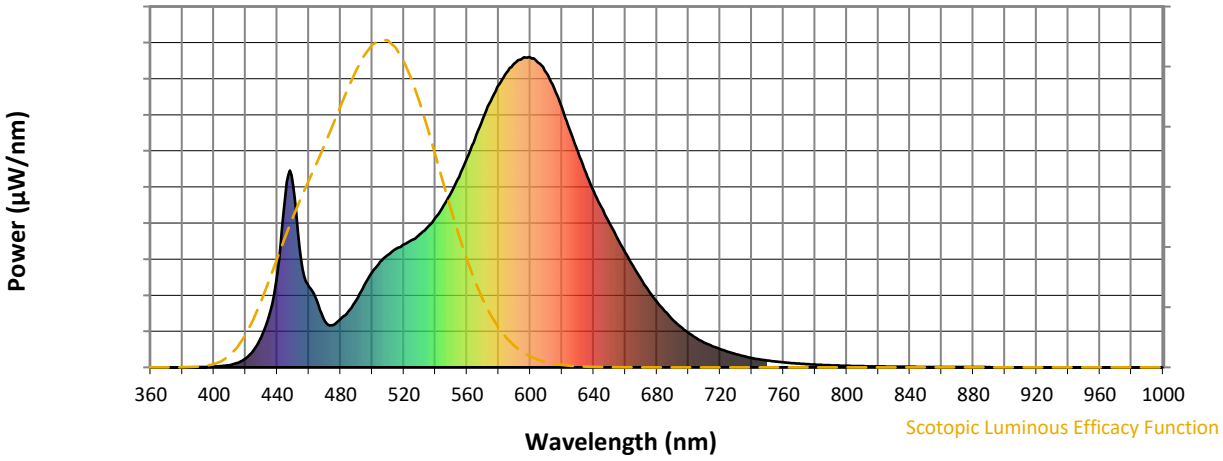


Photopic Lumens: NR

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

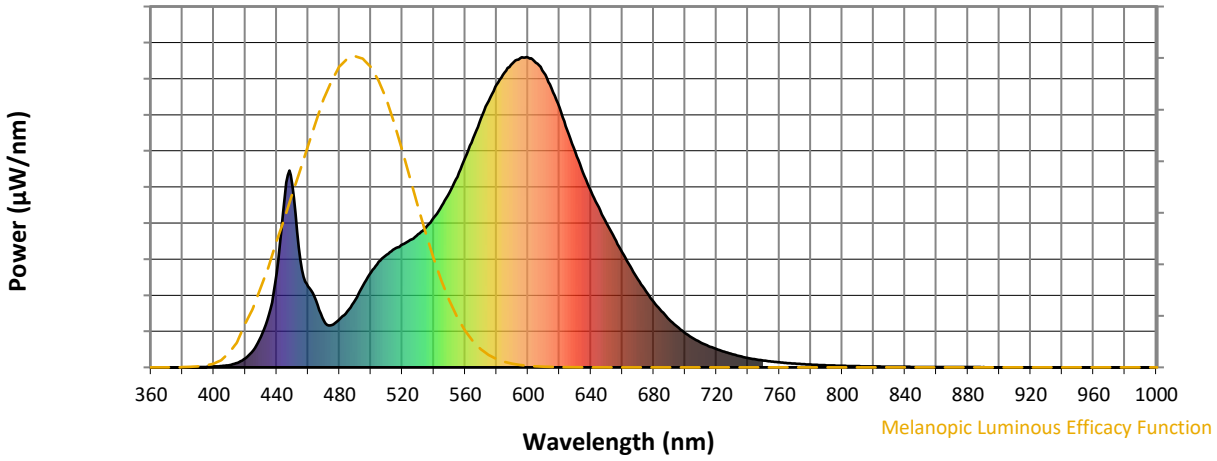


Scotopic Lumens: NR **S/P: 1.29**

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			

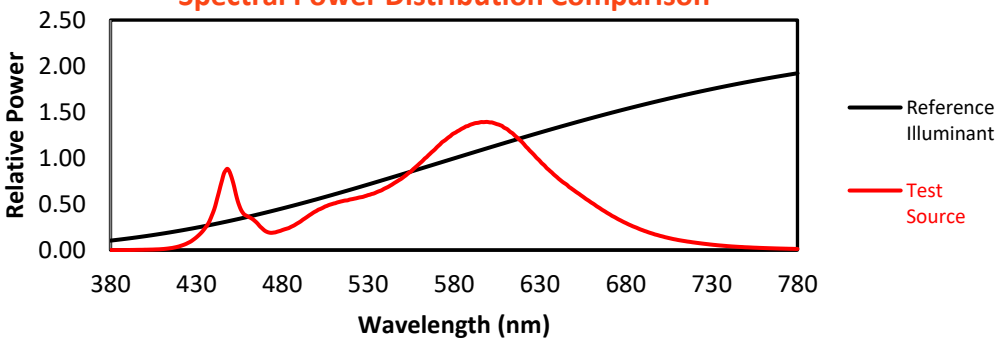
REPORT NUMBER: SP1-2501-332-9

TM-30-18

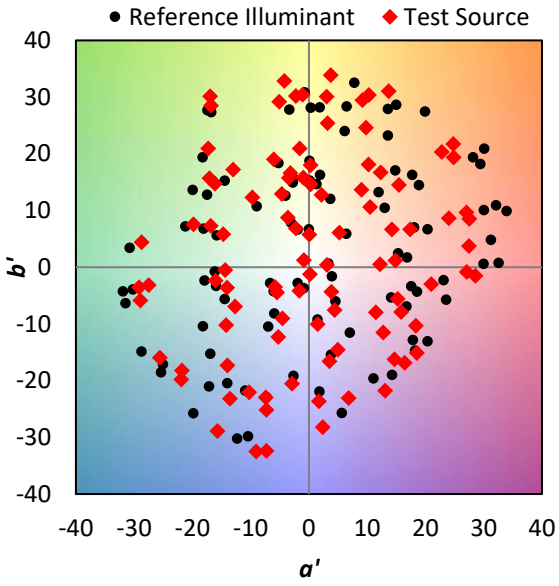
Summary

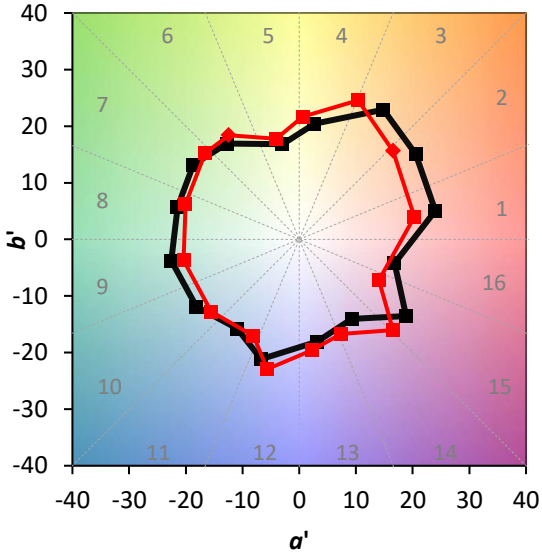
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

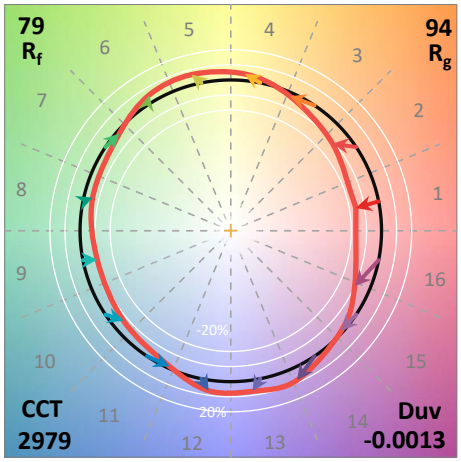
Spectral Power Distribution Comparison

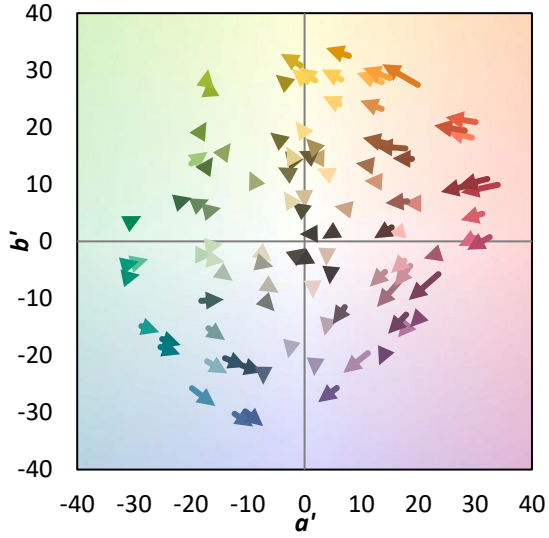


Color Vector Graphics







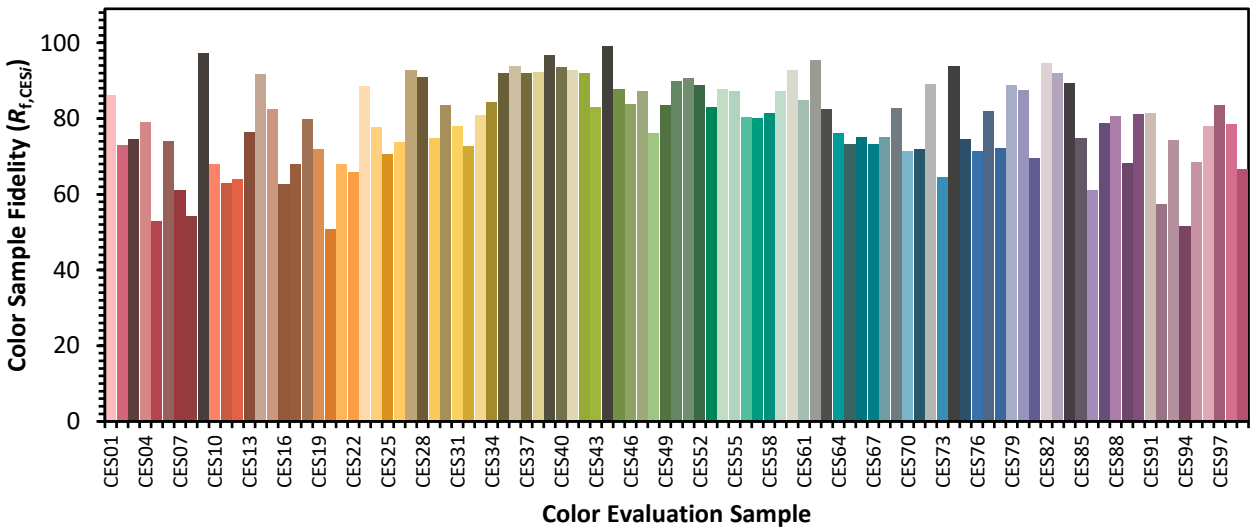


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

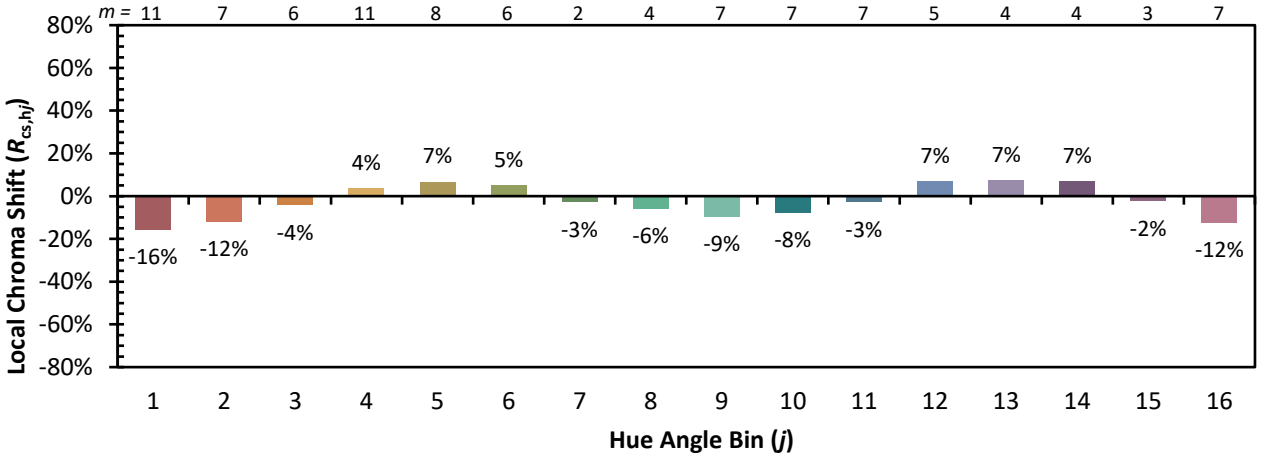
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

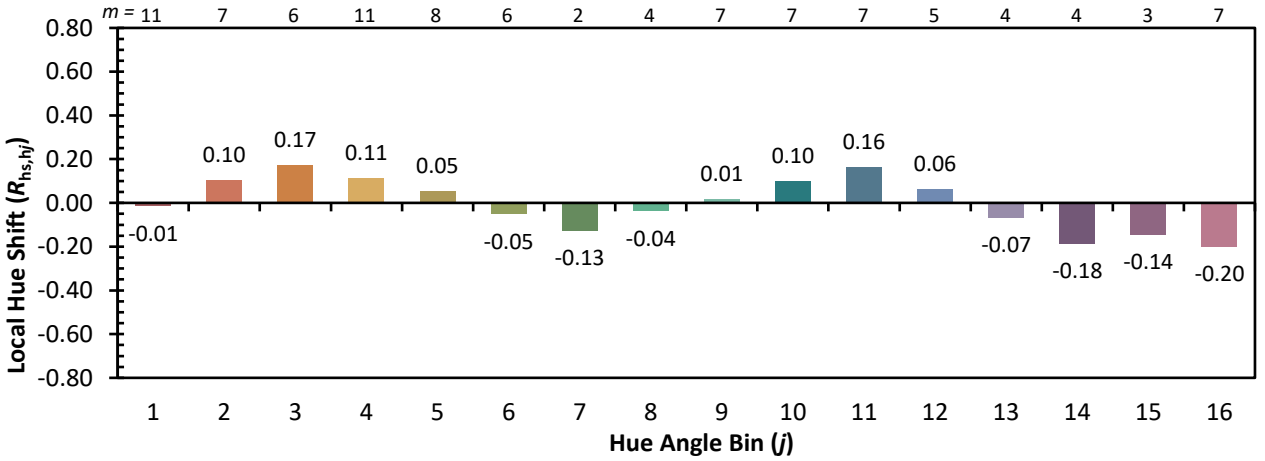


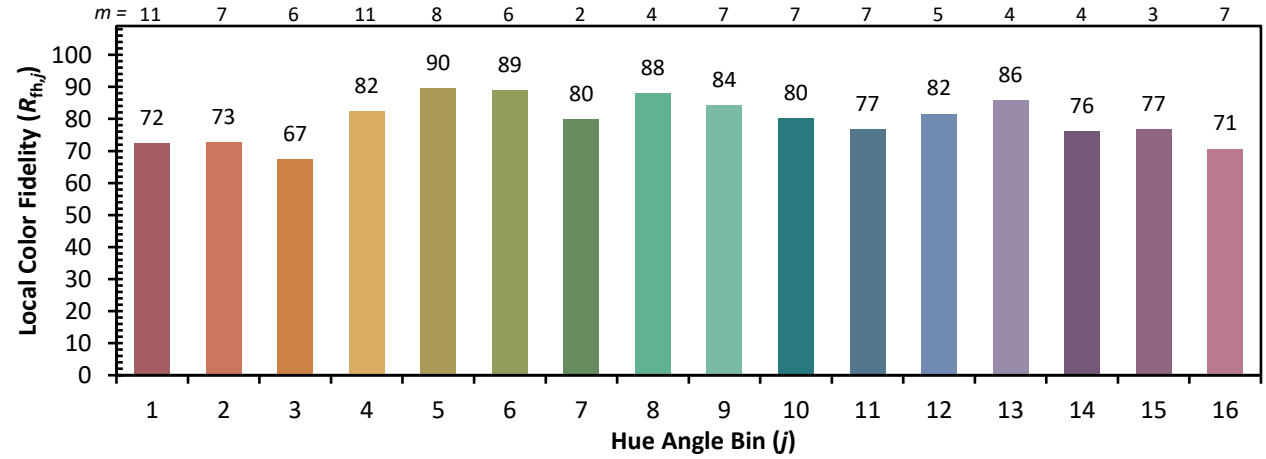
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Color Rendition by Hue-Angle Bin



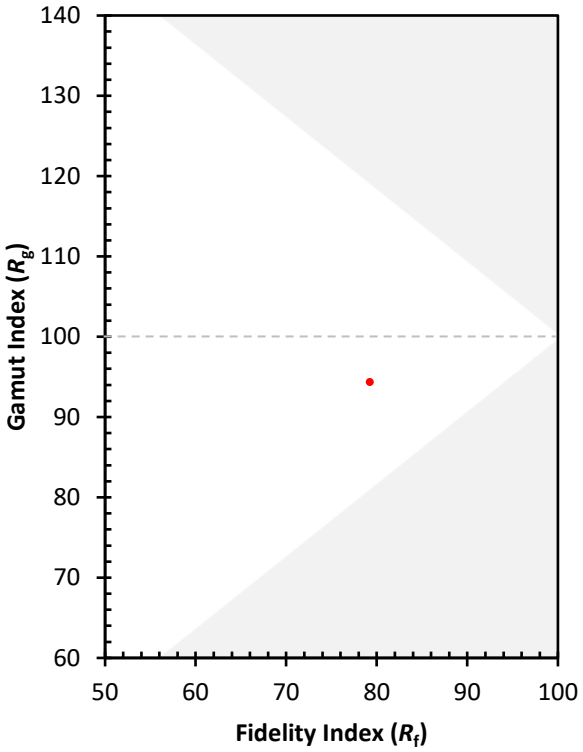


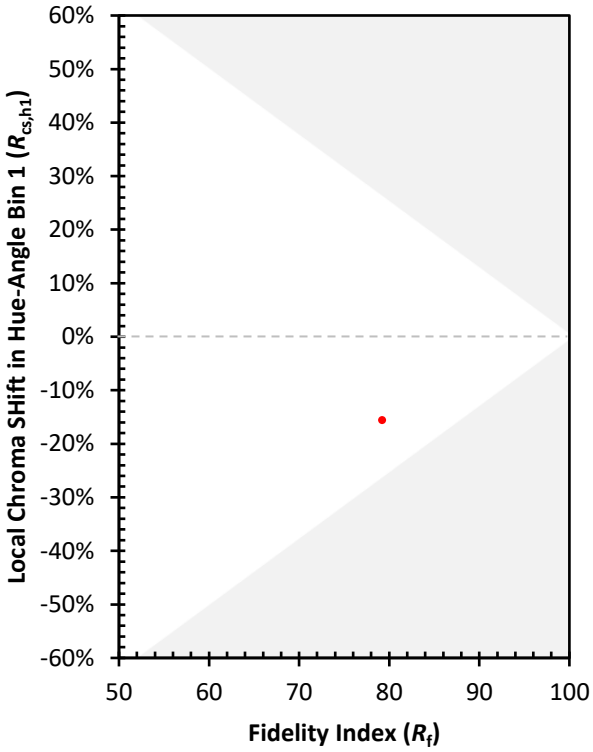


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Measure Comparisons





(END OF REPORT)