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: P1045917

Luminaire Tested: **FFX-CLB-50-722-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:	P1045917
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4771.2 lumens
Efficiency:	N/A
Efficacy:	94.3 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):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

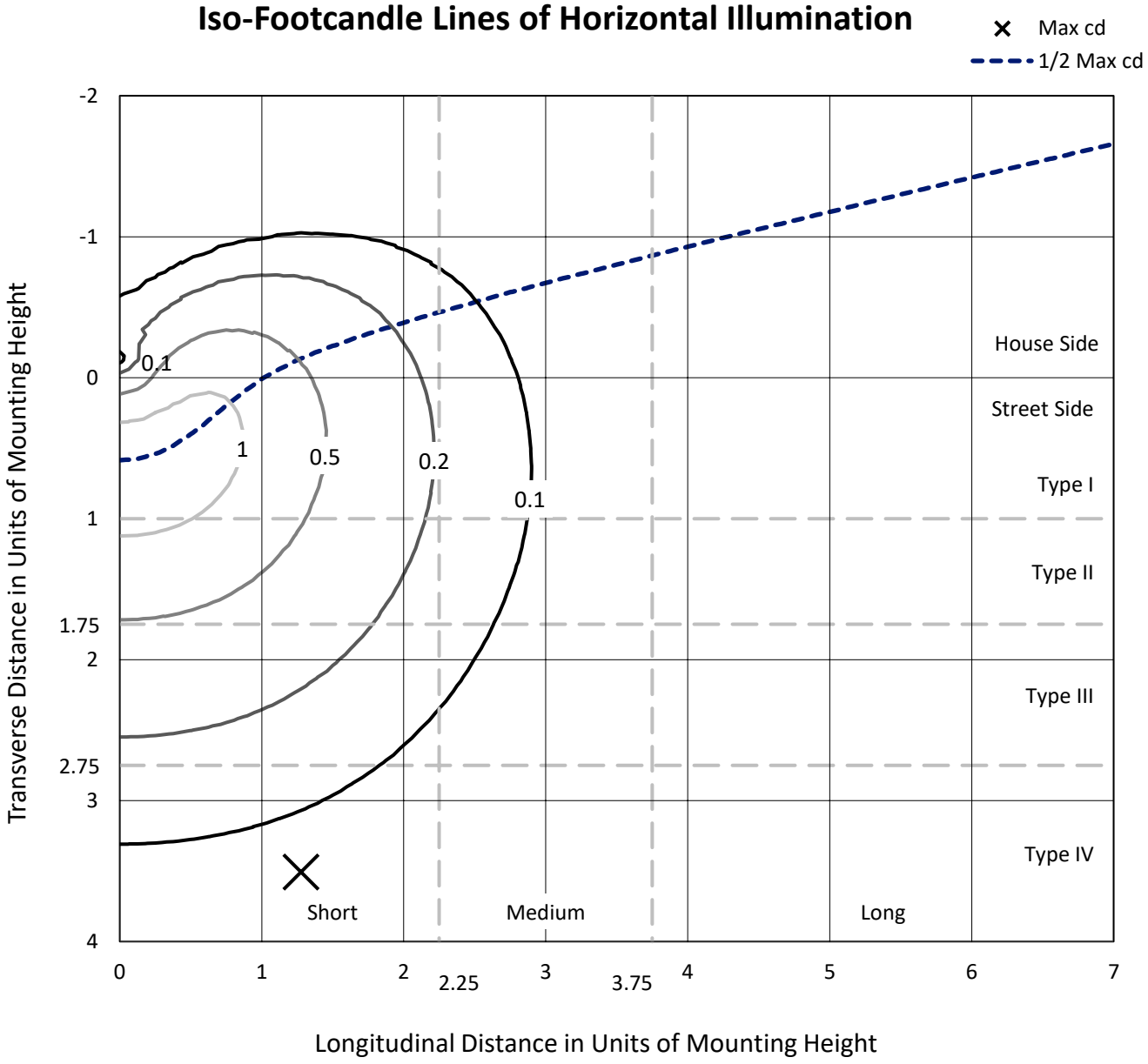


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Iso-Footcandle Lines of Horizontal Illumination



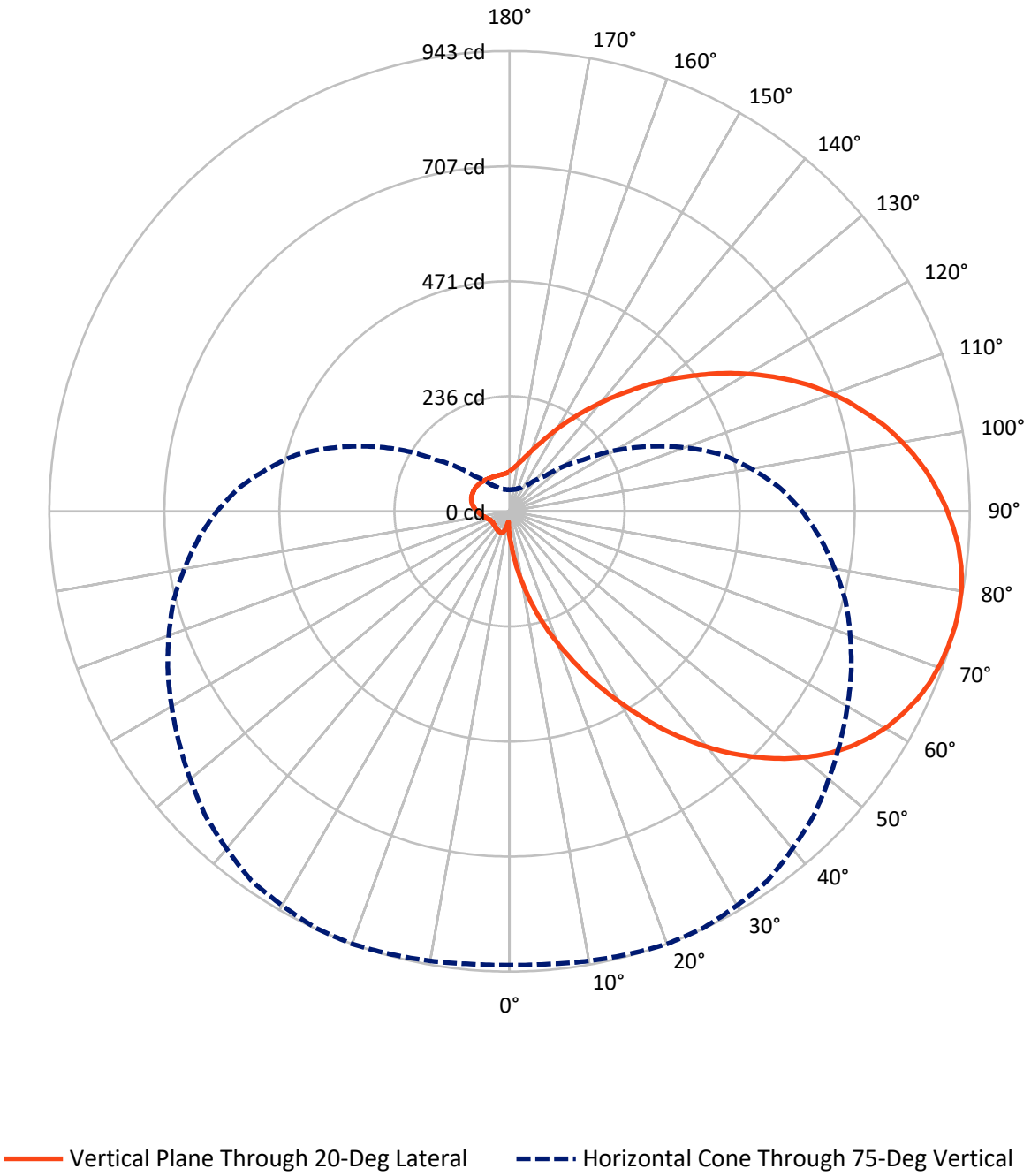
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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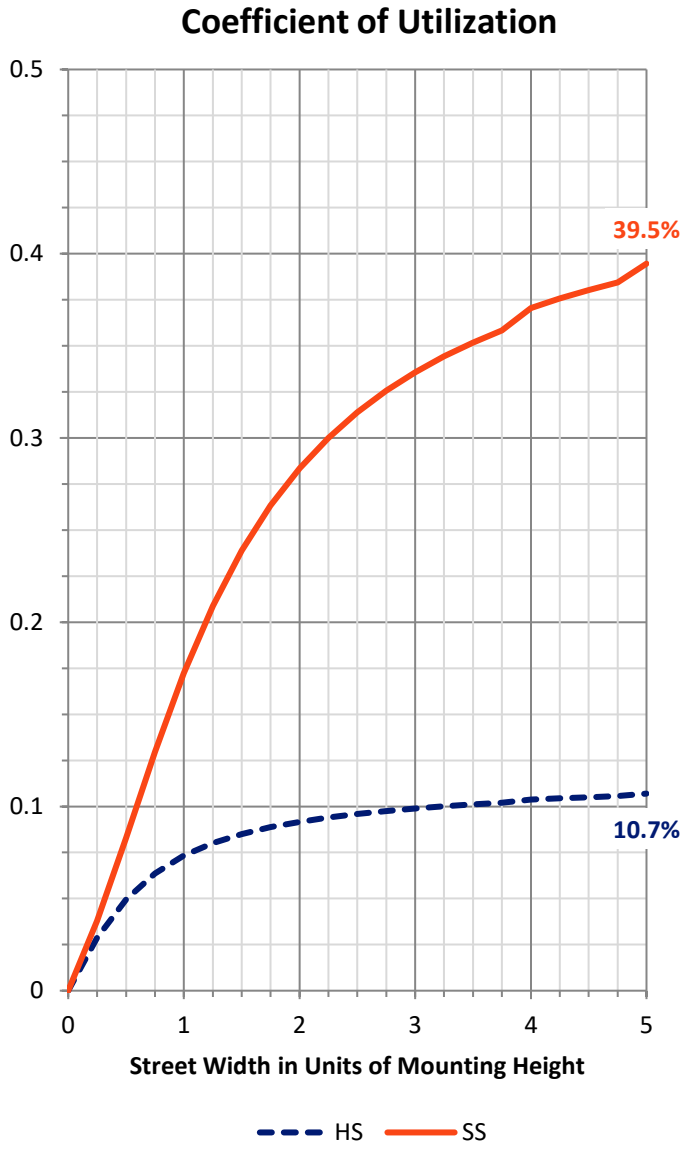
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.6	524.8	1076.4
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	2166.0	1528.8	3694.9
	% Fixture	45.4	32.0	77.4
Total	Lumens	2717.7	2053.6	4771.2
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	39.8	0.8
20°-30°	105.4	2.2
30°-40°	203.7	4.3
40°-50°	319.0	6.7
50°-60°	426.5	8.9
60°-70°	505.4	10.6
70°-80°	550.6	11.5
80°-90°	560.5	11.7
90°-100°	531.5	11.1
100°-110°	470.0	9.9
110°-120°	381.7	8.0
120°-130°	280.9	5.9
130°-140°	186.3	3.9
140°-150°	109.8	2.3
150°-160°	58.0	1.2
160°-170°	27.3	0.6
170°-180°	8.0	0.2
0°-90°	2717.7	57.0
0°-180°	4771.2	100.0



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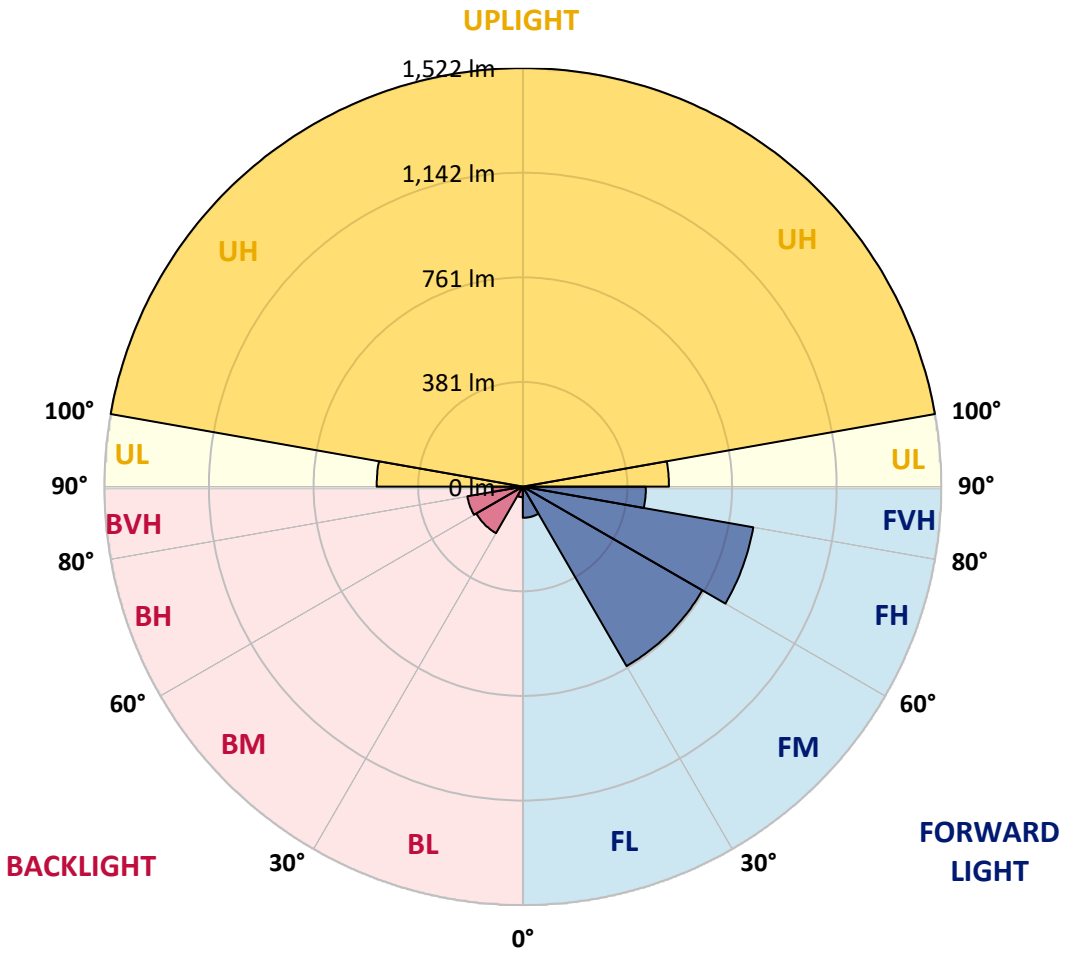
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	113.5	2.4			
FM	(30°-60°)	753.8	15.8			
FH	(60°-80°)	851.1	17.8			G1/1800
FVH	(80°-90°)	447.5	9.4			G3/500
BL	(0°-30°)	38.5	0.8	B0/110		
BM	(30°-60°)	195.3	4.1	B0/220		
BH	(60°-80°)	204.9	4.3	B1/500		G1/500
BVH	(80°-90°)	113.0	2.4			G2/225
UL	(90°-100°)	531.5	11.1		U4/1000	
UH	(100°-180°)	1522.0	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°	54.6	54.6	54.6	*54.6*	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	66.7	66.7	67.2	*67.2*	67.7	66.7	65.2	64.2	62.7	59.2	56.1
5°	92.7	93.2	92.2	*92.7*	93.2	90.7	87.2	82.7	76.2	70.2	63.7
7.5°	124.3	125.8	123.3	*122.8*	121.3	117.3	112.3	105.3	98.3	90.2	80.7
10°	158.9	158.4	155.4	*151.9*	150.9	145.9	139.4	132.9	122.3	112.3	102.3
12.5°	191.5	191.0	188.5	*186.0*	184.5	178.0	170.0	162.4	151.4	138.4	125.8
15°	225.6	226.1	223.6	*222.1*	219.1	212.6	206.0	195.0	184.0	169.0	153.9
17.5°	259.7	260.7	258.2	*257.2*	254.7	249.2	240.6	229.1	215.1	197.5	178.5
20°	297.3	298.3	296.8	*293.3*	290.3	284.3	276.7	262.2	246.7	228.6	204.0
22.5°	337.4	337.9	333.4	*332.4*	329.4	323.9	312.8	299.8	282.3	259.2	233.6
25°	377.0	377.0	376.0	*375.0*	370.5	364.0	352.9	336.9	317.3	292.8	262.7
27.5°	419.6	420.1	417.6	*416.6*	413.1	404.6	393.0	375.5	355.4	325.9	291.8
30°	464.7	464.2	461.7	*459.7*	458.2	449.7	436.7	418.6	393.5	359.5	324.9
32.5°	509.9	508.4	506.9	*504.8*	504.3	493.3	482.8	460.7	434.7	398.6	357.0
35°	556.0	552.5	551.5	*552.0*	549.5	540.4	524.9	503.3	473.3	435.7	388.5
37.5°	596.1	599.1	596.6	*594.6*	595.1	585.1	568.5	544.5	512.9	471.3	420.6
40°	640.7	638.7	638.7	*638.7*	637.2	628.2	610.6	584.1	548.0	503.8	448.7
42.5°	679.3	679.3	681.8	*680.3*	678.8	668.3	649.2	619.7	581.6	533.9	475.8
45°	718.9	717.9	720.9	*718.9*	717.9	706.9	686.8	656.2	616.1	564.0	502.8
47.5°	755.5	756.0	757.0	*757.0*	756.0	743.5	722.4	686.3	645.7	590.1	525.9
50°	787.1	789.6	792.6	*790.6*	791.6	778.1	754.5	717.9	670.8	614.6	546.5
52.5°	818.2	818.2	822.2	*822.2*	821.2	808.2	781.6	743.0	696.4	636.7	565.5
55°	844.8	845.3	848.8	*849.3*	848.8	833.7	805.6	764.0	715.4	655.2	581.0
57.5°	864.8	866.3	870.8	*872.3*	870.3	856.8	825.2	783.1	731.5	669.8	594.6
60°	882.9	884.9	889.9	*891.9*	890.4	875.8	842.7	797.6	744.5	682.3	606.1
62.5°	898.9	899.4	905.9	*906.9*	906.4	890.9	855.8	808.7	755.0	691.8	616.1
65°	910.4	911.9	919.0	*920.5*	919.5	902.9	866.3	817.7	763.5	699.9	623.7
67.5°	919.5	920.5	927.5	*930.0*	929.0	911.4	873.8	823.2	768.5	705.4	629.7
70°	924.5	926.0	934.0	*936.0*	935.0	917.4	878.3	825.7	771.6	709.4	633.7
72.5°	927.5	929.0	937.5	*940.0*	939.5	921.0	880.3	826.7	772.6	711.4	636.7
75°	*929.0*	*930.5*	*939.0*	*942.5*	*941.0*	*922.5*	*880.8*	*826.2*	*772.1*	*712.9*	*639.2*
76°	929.0	930.0	939.0	*942.5*	941.0	922.5	880.8	825.2	771.6	713.4	640.2
77.5°	928.0	929.5	938.5	*941.5*	940.5	922.0	879.3	823.2	770.1	712.4	640.7
80°	925.5	927.0	935.5	*939.0*	937.5	918.4	875.8	819.2	766.0	710.4	640.7
82.5°	920.0	921.5	929.5	*932.0*	931.5	912.4	869.3	812.2	760.0	706.9	639.7
85°	911.4	912.9	919.5	*922.5*	921.0	902.9	859.8	802.6	752.5	701.4	636.7
87.5°	899.9	900.9	907.9	*908.9*	908.4	890.4	847.8	790.6	742.5	693.9	631.7
90°	885.9	886.9	892.4	*893.9*	892.4	875.3	832.2	777.6	729.9	684.8	625.7
92.5°	871.3	870.8	874.8	*876.3*	874.8	857.8	816.2	762.0	716.9	674.8	618.1
95°	854.3	855.3	856.3	*857.3*	855.3	838.7	798.1	745.0	702.9	663.8	611.1
97.5°	835.2	834.7	835.7	*835.7*	833.7	817.2	777.6	728.4	686.8	651.7	601.6
100°	815.2	814.7	813.7	*811.7*	809.7	793.6	757.0	707.9	670.3	637.2	592.1
102.5°	793.1	790.1	787.1	*786.6*	782.1	768.5	733.5	688.3	652.7	623.7	580.0
105°	766.0	765.0	760.5	*756.5*	754.0	739.0	706.9	666.8	634.2	607.1	567.0
107.5°	738.5	736.5	729.9	*728.4*	723.4	709.9	680.8	645.2	615.6	590.6	551.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	708.9	707.9	700.9	*696.4*	692.3	677.3	652.2	622.2	595.1	572.0	533.9
112.5°	675.8	674.8	667.3	*663.8*	657.8	646.2	622.7	595.6	572.5	551.5	514.9
115°	642.2	641.7	633.2	*628.7*	623.2	609.1	590.1	569.0	548.5	527.4	491.8
117.5°	608.6	606.1	597.6	*592.1*	586.6	574.0	558.5	541.9	522.9	503.3	468.2
120°	570.5	570.0	560.5	*556.0*	551.0	539.4	525.9	510.4	495.3	475.8	444.7
122.5°	533.9	533.4	524.9	*519.4*	512.9	503.8	492.8	480.8	467.2	448.2	417.6
125°	496.8	495.8	486.8	*481.3*	475.8	468.2	457.7	449.2	438.2	420.1	391.0
127.5°	459.2	457.2	451.7	*446.2*	440.2	430.6	427.1	419.6	407.6	390.0	364.5
130°	424.1	423.1	415.6	*410.6*	404.6	397.1	394.1	388.0	379.5	363.5	339.4
132.5°	387.5	386.5	382.0	*377.0*	372.0	364.5	363.0	357.5	348.9	335.9	313.3
135°	354.9	353.9	348.9	*343.4*	340.9	335.4	333.4	328.9	320.9	307.8	288.3
137.5°	323.4	322.9	317.8	*313.3*	310.3	306.3	304.3	300.3	294.3	282.8	264.7
140°	294.8	292.3	288.3	*284.3*	281.2	277.2	276.2	272.7	268.2	257.2	244.2
142.5°	266.2	264.7	261.7	*258.2*	256.2	251.7	249.2	247.7	241.6	233.1	222.6
145°	238.1	238.1	235.6	*233.1*	230.1	227.1	225.1	223.6	218.6	211.1	201.0
147.5°	214.6	214.6	212.6	*211.6*	209.1	205.0	203.5	202.0	197.5	191.5	183.5
150°	194.5	193.5	192.0	*190.5*	188.5	185.0	182.5	181.0	177.5	173.0	165.4
152.5°	174.5	174.5	173.5	*171.5*	170.0	167.4	165.4	163.4	160.9	155.9	149.9
155°	157.4	157.4	155.9	*154.9*	153.9	151.9	149.9	147.9	144.9	140.9	136.4
157.5°	143.4	143.4	142.4	*141.9*	139.9	138.9	136.9	134.9	131.9	128.3	124.3
160°	130.3	130.8	130.3	*129.8*	128.3	126.8	124.8	122.8	120.3	117.3	114.3
162.5°	119.8	120.3	119.3	*118.8*	117.8	116.3	114.3	113.3	111.3	107.8	104.8
165°	110.8	110.8	110.3	*109.8*	109.3	107.3	106.3	105.3	103.3	100.8	98.3
167.5°	103.8	103.8	103.3	*103.3*	102.3	101.3	99.8	98.8	96.8	95.3	92.2
170°	97.8	97.8	97.3	*96.8*	96.3	95.3	94.3	92.7	91.7	89.7	88.2
172.5°	92.7	92.7	92.2	*91.7*	91.7	90.2	89.7	88.7	87.7	86.2	84.7
175°	88.7	88.2	88.2	*87.7*	87.2	86.2	85.7	85.2	84.2	83.7	82.7
177.5°	85.2	85.2	84.7	*84.7*	84.2	83.2	83.2	82.7	82.2	81.7	81.2
180°	80.7	80.7	80.7	*80.7*	80.7	80.7	80.7	80.7	80.7	80.7	80.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	54.6	53.1	49.1	45.6	43.1	39.6	36.6	35.6	35.1	34.6	34.6
5°	60.2	57.2	50.1	43.6	37.6	32.6	28.1	23.6	20.1	18.0	17.0
7.5°	75.7	72.2	62.7	54.1	45.6	38.1	30.6	25.1	20.1	17.0	17.0
10°	96.3	91.2	79.2	67.2	56.7	45.6	36.6	29.1	24.6	22.1	22.1
12.5°	117.8	111.3	97.3	81.7	67.2	54.6	43.6	35.6	30.6	28.6	28.6
15°	143.4	134.9	116.8	97.3	79.7	64.7	52.1	43.1	37.1	34.6	34.1
17.5°	167.9	156.9	135.4	113.3	92.2	74.2	59.7	48.1	41.6	38.1	37.6
20°	194.0	180.5	154.9	127.8	103.8	81.7	64.2	51.6	43.1	39.1	38.6
22.5°	218.1	203.5	173.0	141.4	112.8	87.2	66.7	52.1	42.6	38.1	37.6
25°	245.7	229.1	193.0	155.9	122.3	91.7	68.7	52.1	42.1	37.1	36.6
27.5°	273.7	254.2	213.6	170.5	130.8	96.8	70.2	52.1	41.1	36.1	35.6
30°	303.3	281.8	233.1	185.5	139.9	100.8	71.7	51.6	40.6	35.1	34.6
32.5°	333.4	308.3	254.7	200.0	148.9	104.8	72.7	51.6	39.6	34.6	33.6
35°	364.0	334.9	276.2	215.1	156.9	108.3	73.2	51.1	39.1	33.6	33.1
37.5°	391.0	361.0	296.3	228.6	164.4	110.8	73.7	50.6	38.6	33.1	32.6
40°	418.6	386.0	315.3	240.6	170.0	112.3	73.2	50.1	37.6	32.6	32.1
42.5°	443.7	408.6	332.9	252.2	175.0	113.8	72.7	49.1	37.1	32.1	31.6
45°	467.7	430.6	349.4	262.2	179.5	114.3	71.7	48.6	36.6	32.1	31.6
47.5°	489.8	449.7	365.5	271.7	183.5	114.3	71.2	47.6	36.6	32.1	31.6
50°	508.4	468.7	378.5	280.2	186.0	113.8	70.2	47.1	36.6	32.1	31.6
52.5°	526.4	484.3	391.5	286.8	187.5	112.8	68.7	46.6	36.6	32.6	32.1
55°	540.9	498.3	402.6	293.8	189.0	111.8	67.7	46.1	36.6	32.6	32.6
57.5°	553.5	509.9	411.1	298.3	189.0	109.8	66.7	46.1	37.1	33.6	33.1
60°	565.5	520.4	420.1	302.3	189.0	108.3	65.7	46.1	37.6	34.1	33.6
62.5°	573.5	528.9	427.1	305.8	188.0	106.8	64.7	46.1	38.1	35.1	34.6
65°	581.6	536.9	433.7	308.8	187.5	105.3	64.7	46.6	39.1	36.6	36.1
67.5°	587.6	543.4	438.2	310.8	186.5	103.8	64.2	47.6	40.6	38.1	37.6
70°	592.6	548.5	443.7	312.3	185.5	102.8	64.7	49.1	42.1	39.6	39.6
72.5°	596.6	553.0	446.7	313.8	184.5	102.3	65.7	50.6	44.6	42.1	41.6
75°	*599.1*	*555.5*	*449.7*	*314.3*	*183.5*	*101.8*	*66.7*	*52.6*	*46.6*	*44.6*	*44.1*
76°	599.6	556.5	450.7	314.8	183.0	101.8	67.2	53.1	47.6	45.6	45.1
77.5°	601.1	558.0	451.7	314.8	182.5	101.8	68.2	54.6	49.1	47.1	47.1
80°	602.1	559.0	453.2	315.3	181.5	101.8	69.7	57.2	52.1	50.1	49.6
82.5°	601.6	559.5	453.7	314.3	181.0	102.3	71.7	59.7	55.1	53.1	52.6
85°	599.6	558.0	452.7	312.8	179.5	103.3	73.7	62.7	57.7	55.6	55.6
87.5°	596.1	554.5	450.2	310.8	178.5	103.8	75.7	65.2	60.7	58.7	58.7
90°	591.1	550.5	447.2	308.8	177.0	104.3	78.2	67.7	63.7	62.2	61.7
92.5°	585.1	545.5	443.2	305.8	176.0	105.3	80.2	70.7	66.7	64.7	64.7
95°	579.0	539.9	438.7	302.3	175.0	106.8	82.2	73.2	69.2	67.7	67.7
97.5°	570.5	532.4	432.7	298.3	173.5	107.3	84.7	75.7	72.2	70.2	70.2
100°	560.0	523.9	425.6	294.3	172.5	108.8	86.7	78.2	74.7	73.2	72.7
102.5°	549.5	513.9	418.1	289.8	171.0	109.3	88.7	80.7	76.7	75.2	75.2
105°	537.4	502.8	408.6	283.8	169.5	110.3	90.2	82.2	78.7	77.2	76.7
107.5°	523.4	488.8	399.1	278.2	167.9	111.3	91.7	83.7	80.2	78.7	78.2

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

Scaled Data Report

REPORT NUMBER: P1045917
CATALOG NUMBER: FFX-CLB-50-722-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	507.4	475.8	387.5	272.2	166.9	112.8	93.2	84.7	81.2	79.2	79.2
112.5°	488.8	457.2	375.0	265.2	166.9	114.8	94.3	85.7	81.7	79.7	79.7
115°	466.7	437.7	360.0	258.7	166.4	116.8	96.3	86.2	81.7	80.2	79.7
117.5°	445.2	417.1	344.9	252.2	167.9	120.3	98.3	87.2	81.7	79.7	79.7
120°	421.1	395.6	329.4	245.7	170.0	123.8	100.8	87.7	81.7	79.2	79.2
122.5°	396.1	372.5	314.3	239.6	171.5	127.8	102.8	88.7	81.2	78.7	78.2
125°	372.5	348.9	297.3	233.6	173.0	131.4	105.3	89.2	80.7	77.7	77.2
127.5°	346.4	328.4	282.3	227.1	174.0	134.4	107.3	89.7	80.2	76.7	76.2
130°	323.9	306.3	267.2	220.1	173.0	135.4	107.8	89.2	79.2	75.7	75.7
132.5°	298.8	284.8	250.7	211.1	170.5	135.4	108.3	89.2	78.7	75.2	74.7
135°	276.7	263.7	235.1	201.0	165.9	133.4	107.3	88.7	78.2	74.7	74.2
137.5°	256.2	243.6	218.6	190.5	159.4	129.8	105.3	87.7	77.7	74.2	73.7
140°	234.1	225.1	203.5	179.0	152.4	125.8	102.8	86.7	77.7	74.2	73.7
142.5°	214.1	206.6	187.0	166.4	143.4	119.8	99.8	85.2	77.2	74.2	73.7
145°	196.0	187.5	172.5	153.9	134.4	114.3	96.8	84.2	76.7	74.2	73.7
147.5°	178.5	171.0	158.4	142.4	126.3	108.8	93.7	82.7	76.7	74.2	73.7
150°	160.9	155.9	144.9	131.9	117.3	103.3	90.7	81.7	76.7	74.7	74.2
152.5°	145.9	142.4	132.9	122.3	109.8	97.8	87.7	80.7	76.7	74.7	74.7
155°	133.4	129.8	121.8	112.3	103.3	93.2	85.7	79.7	76.7	75.2	74.7
157.5°	120.8	118.3	111.8	104.8	97.3	89.7	83.7	79.2	76.7	75.2	75.2
160°	111.3	108.8	103.8	98.3	92.2	86.7	81.7	78.2	76.7	75.7	75.7
162.5°	103.3	101.3	97.3	92.7	88.2	83.7	80.2	77.7	76.7	75.7	75.7
165°	96.8	95.3	91.7	88.2	85.2	81.7	79.2	77.7	76.7	76.2	76.2
167.5°	91.2	90.2	87.7	85.2	82.7	80.2	78.2	77.2	76.7	76.7	76.7
170°	87.2	86.2	84.7	82.7	80.7	79.2	77.7	77.2	77.2	76.7	77.2
172.5°	84.2	83.7	82.2	80.7	79.7	78.2	77.7	77.2	77.7	77.7	77.7
175°	82.2	81.7	80.7	79.7	79.2	78.2	78.2	77.7	78.2	78.7	78.7
177.5°	80.7	80.2	79.7	79.7	79.2	78.7	78.7	79.2	79.7	79.7	79.7
180°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

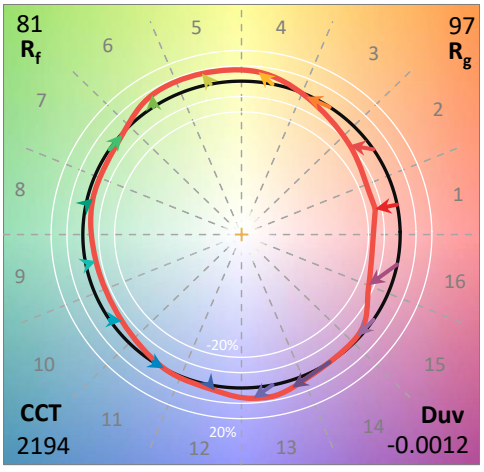
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

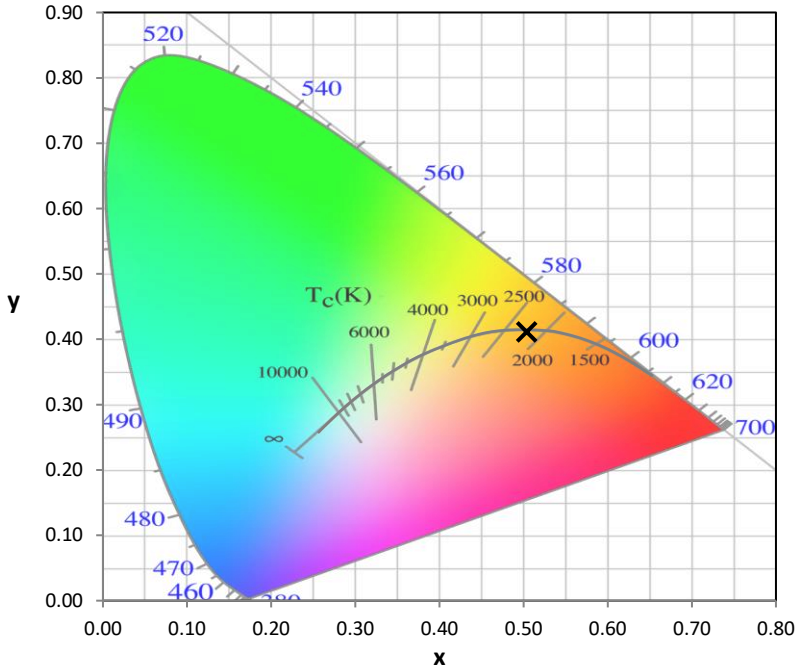
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

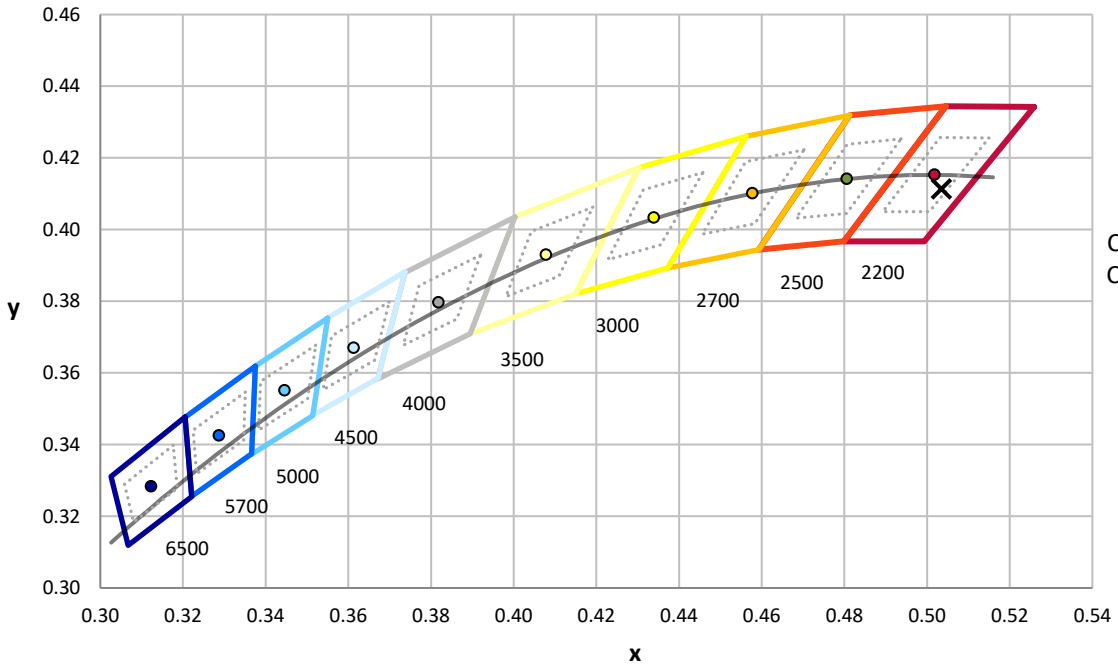
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

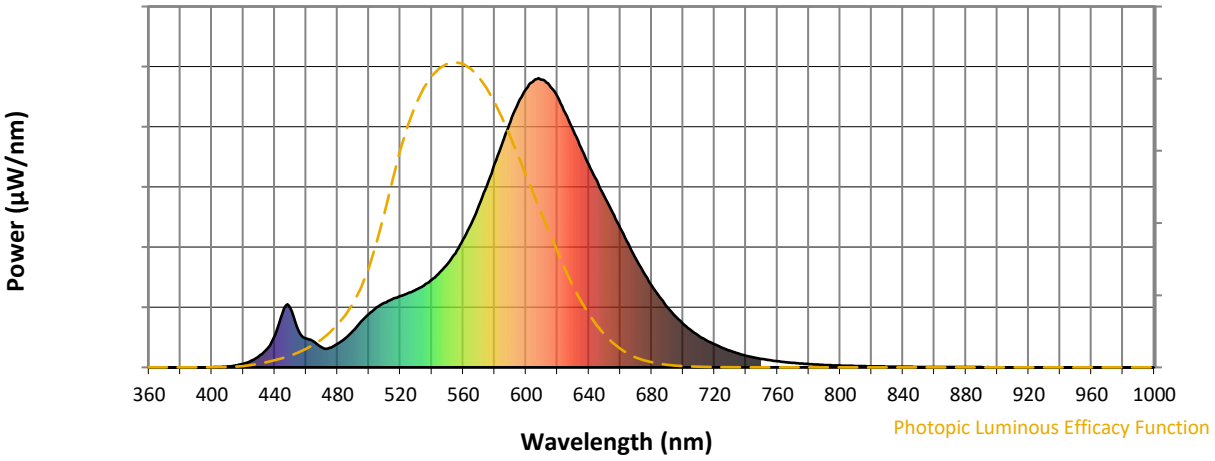


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

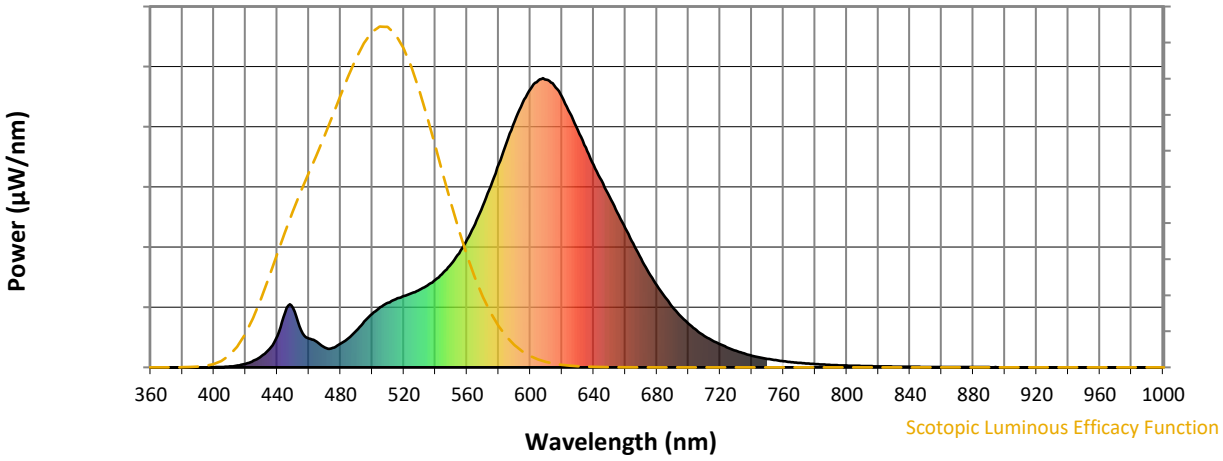


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

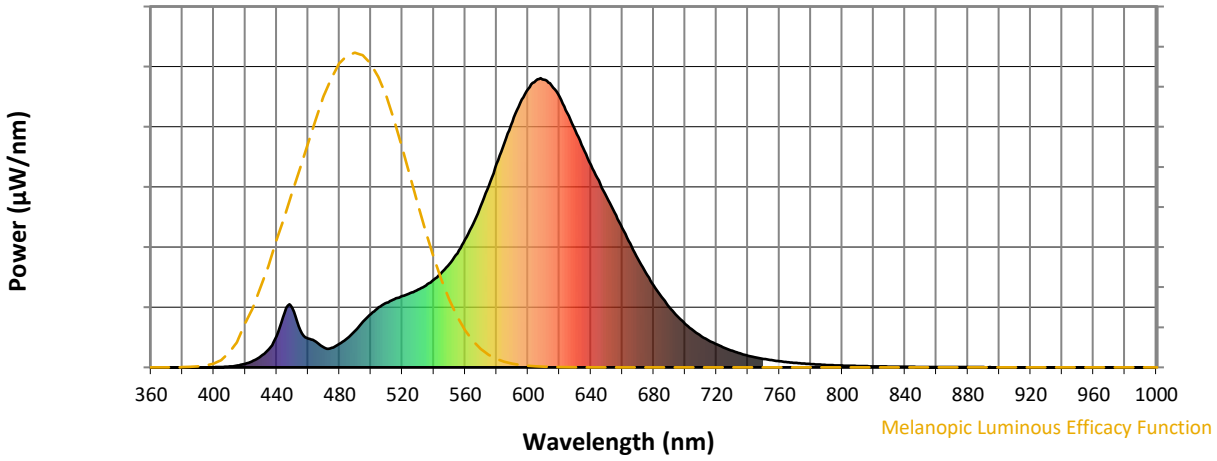


Scotopic Lumens: NR **S/P: 0.96**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

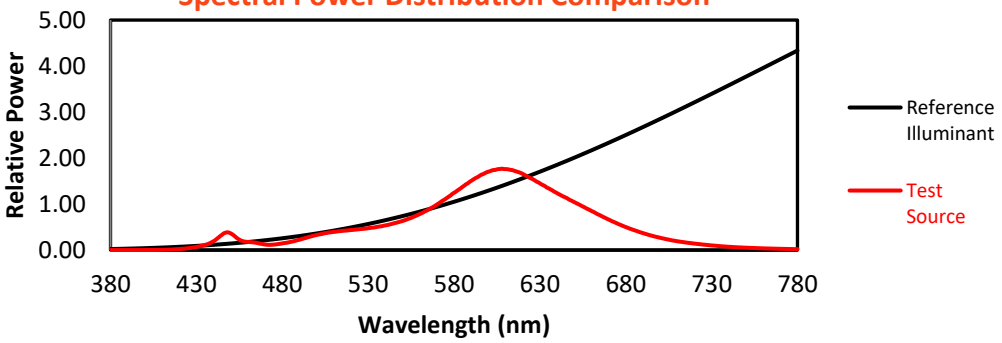
REPORT NUMBER: SP1-2501-332-7

TM-30-18

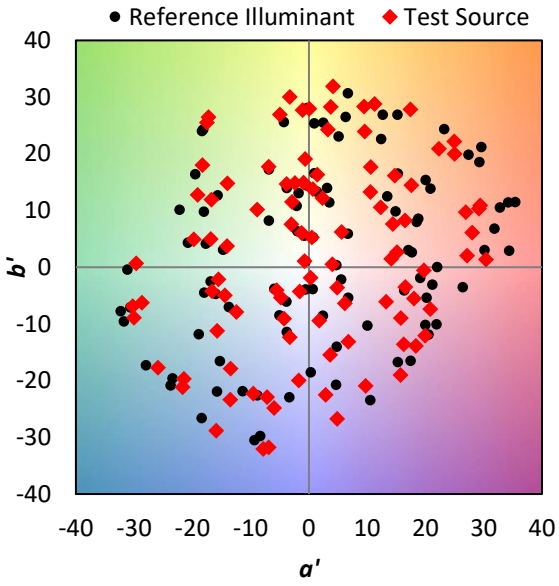
Summary

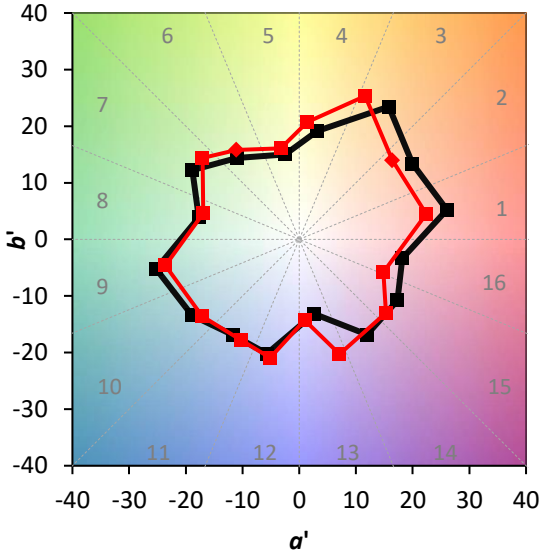
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

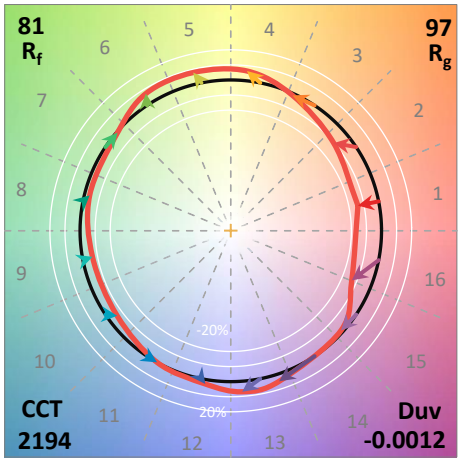
Spectral Power Distribution Comparison

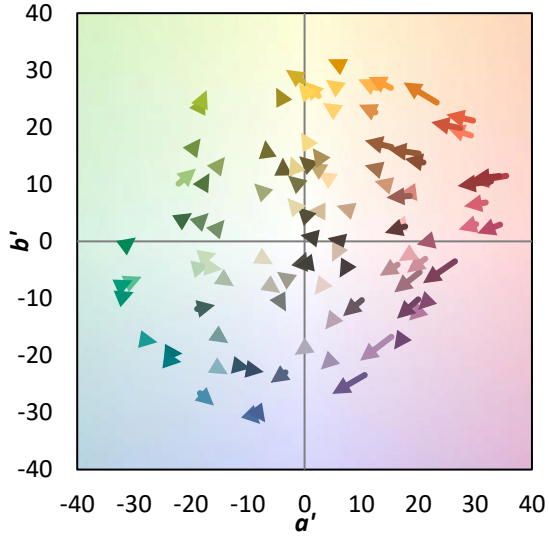


Color Vector Graphics







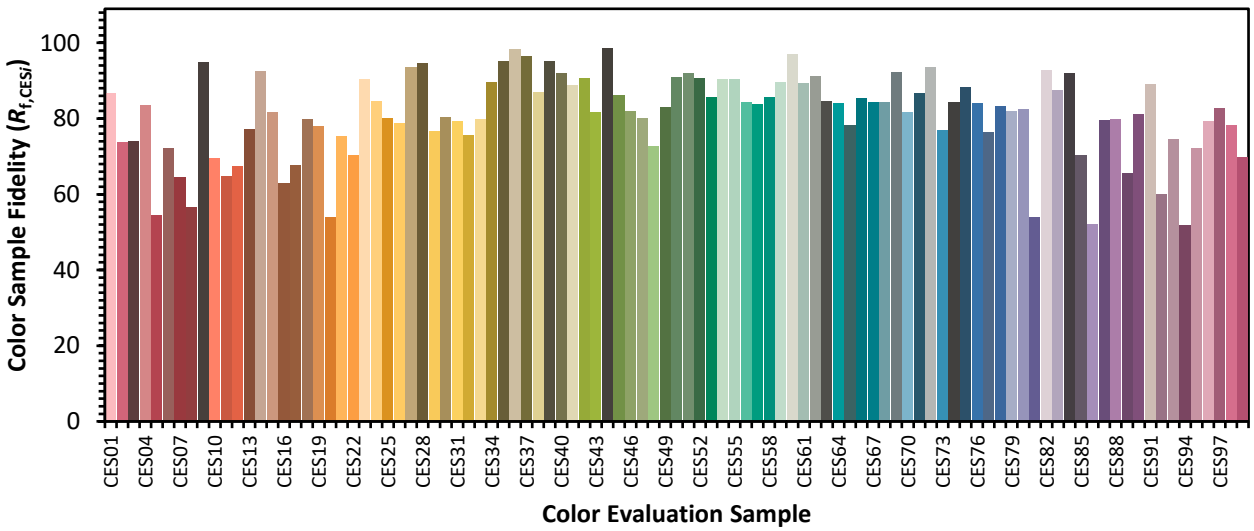


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

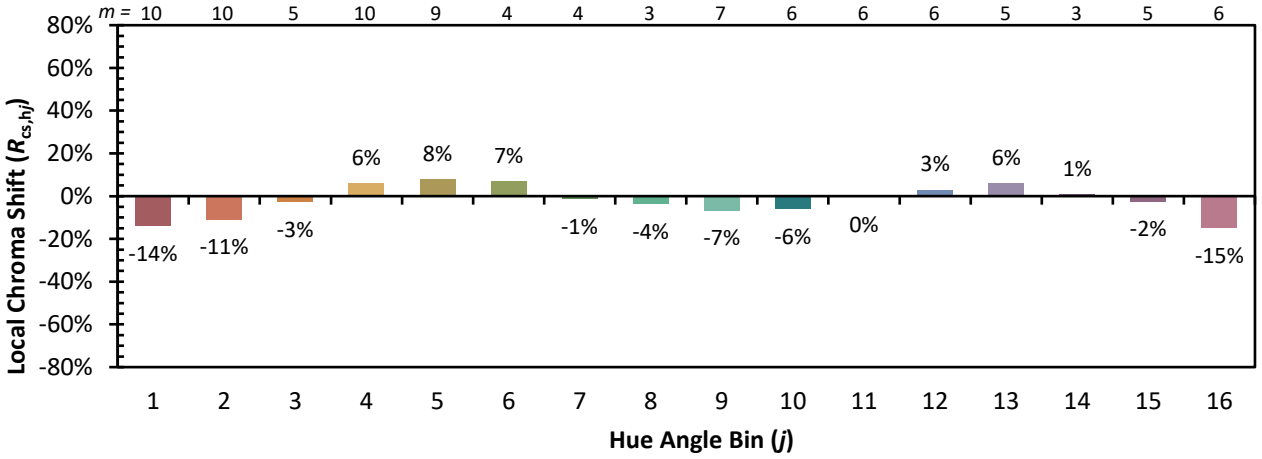
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

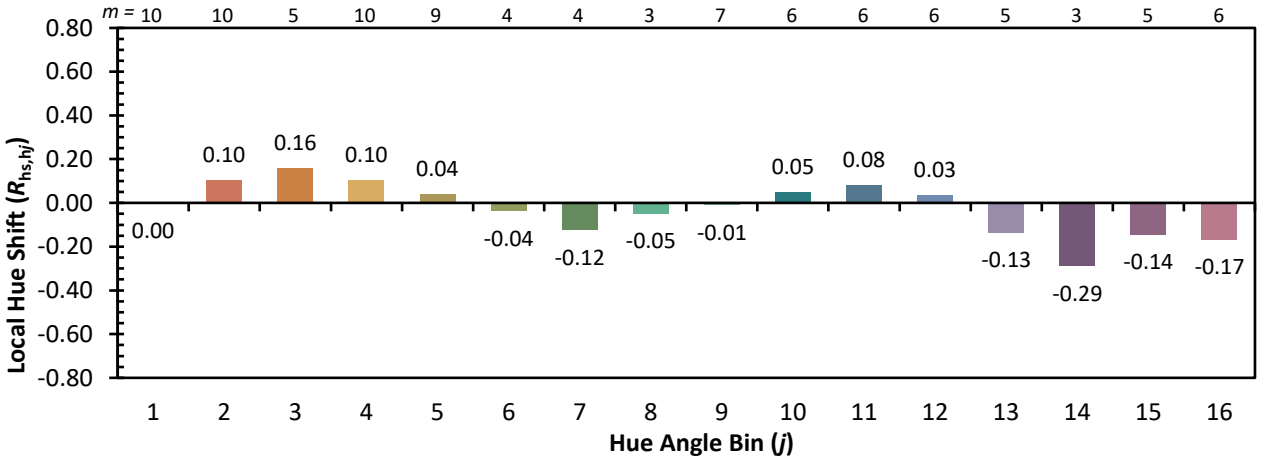


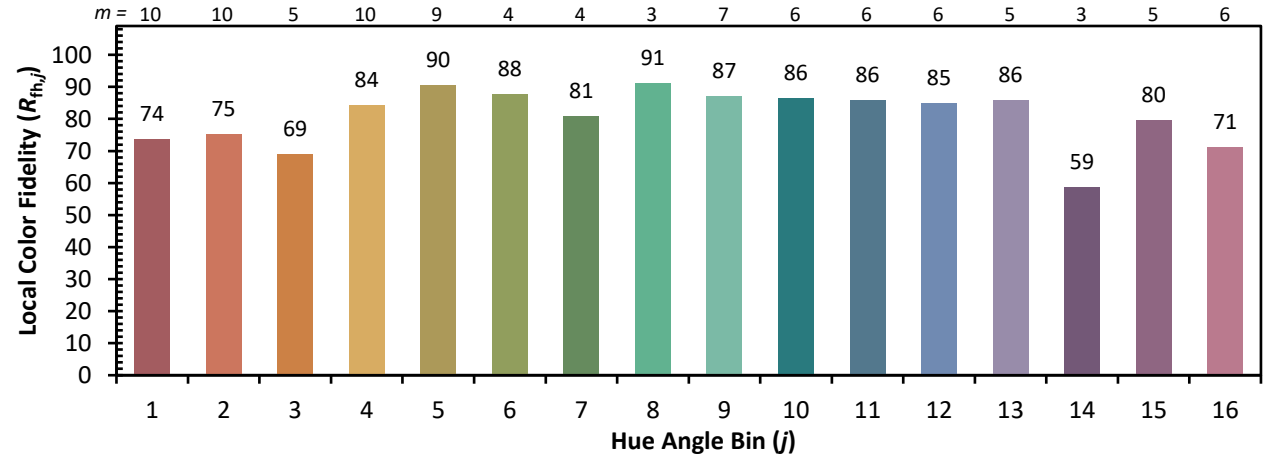
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Color Rendition by Hue-Angle Bin



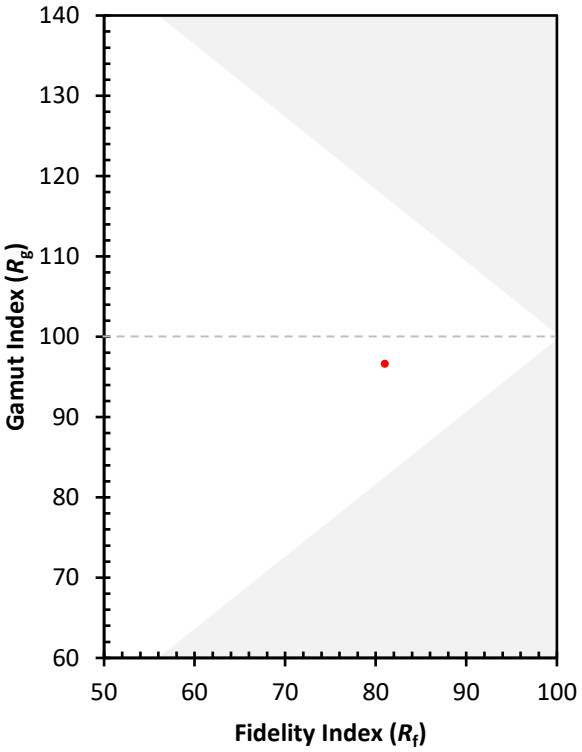


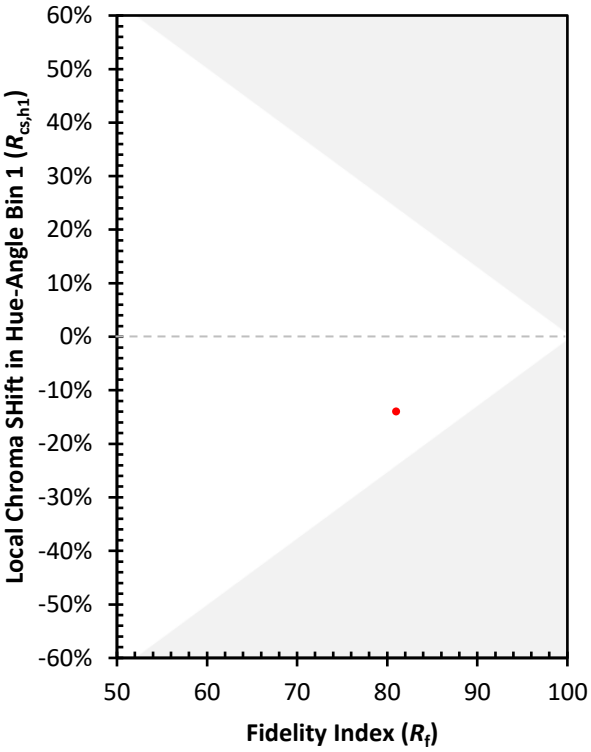


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Measure Comparisons





(END OF REPORT)