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: P1045946

Luminaire Tested: **FFX-CLB-30-740-U-FG-T5-HSS**

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:	P1045946
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3652.6 lumens
Efficiency:	N/A
Efficacy:	119.4 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):	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

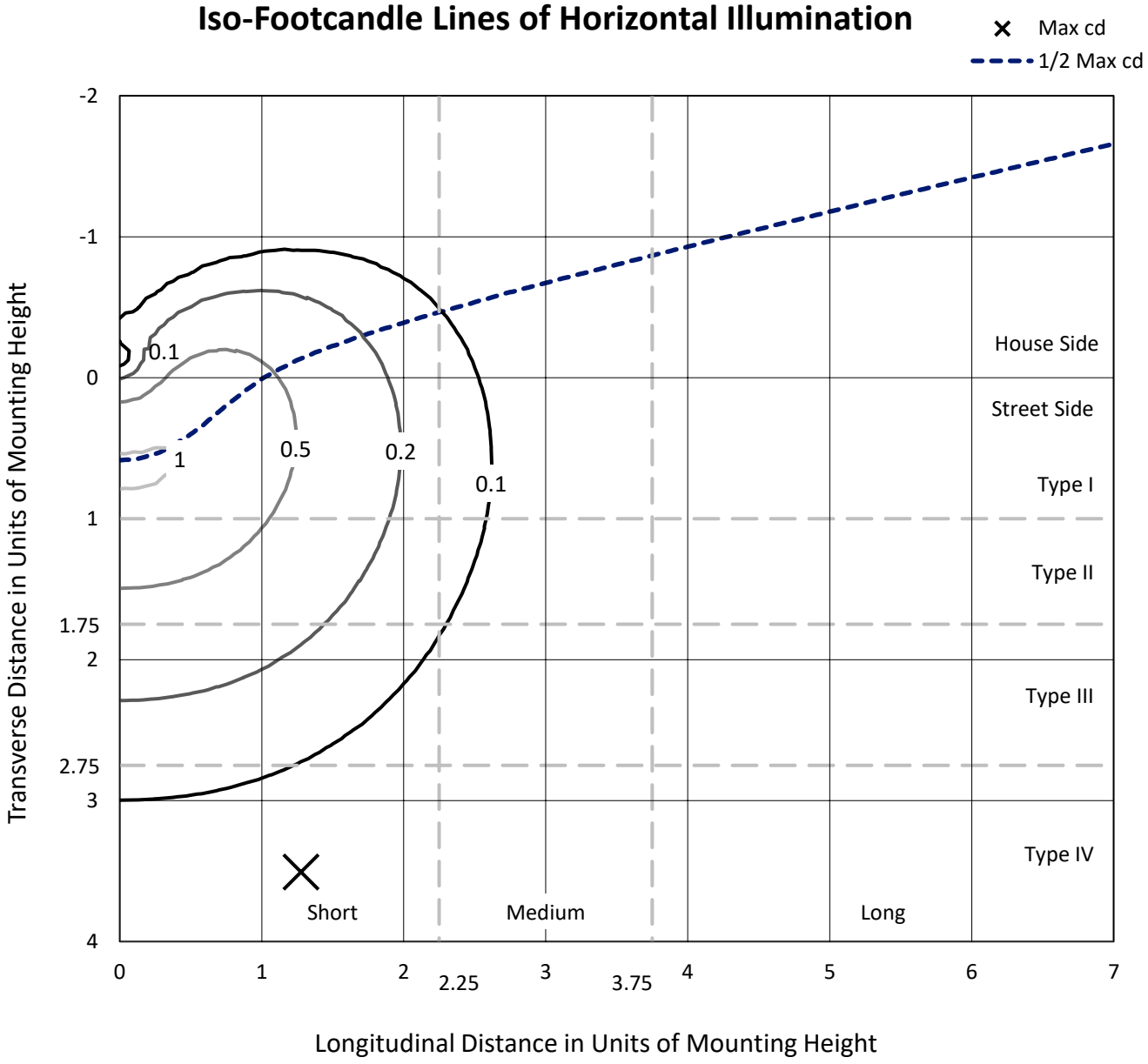


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Iso-Footcandle Lines of Horizontal Illumination



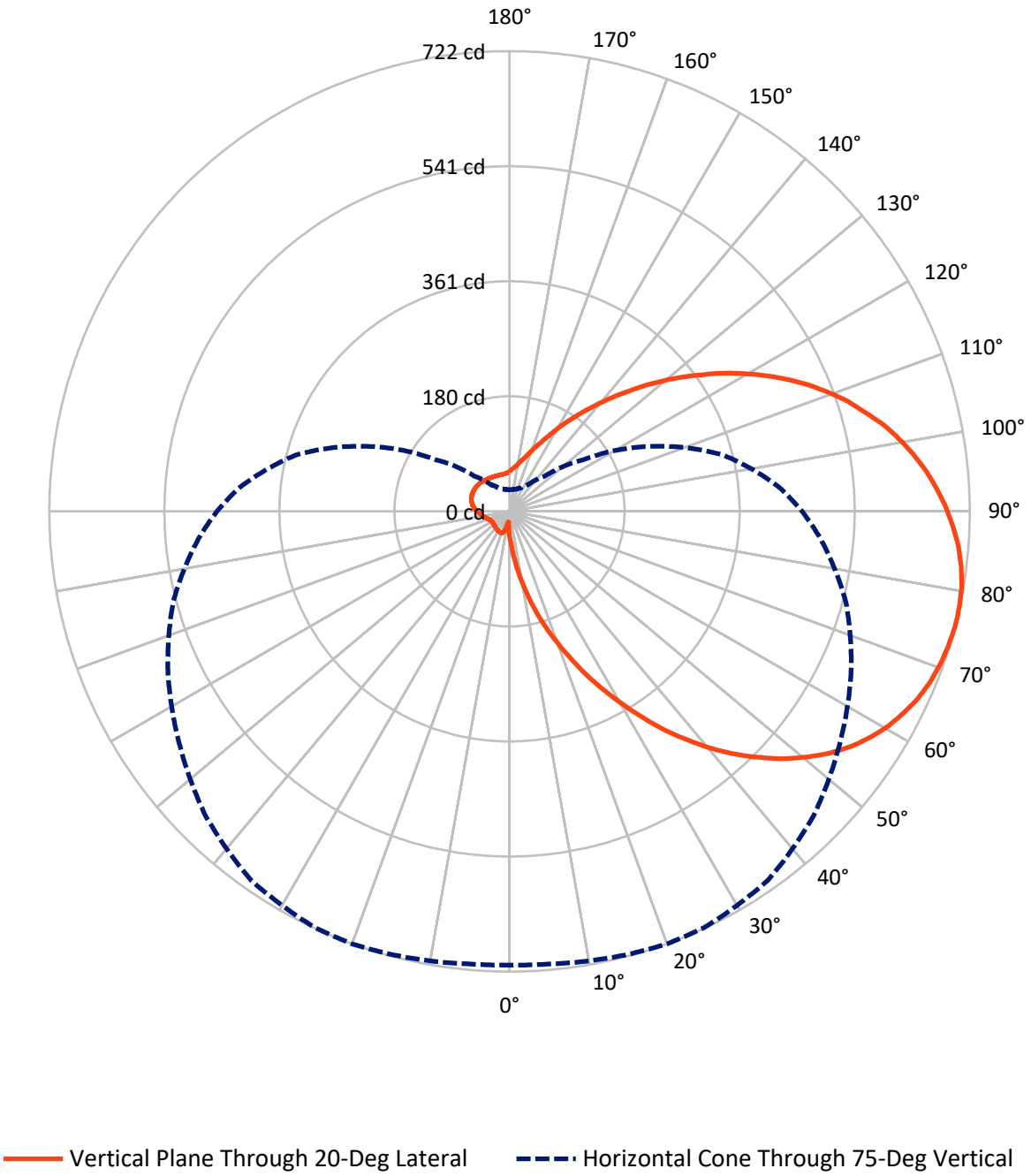
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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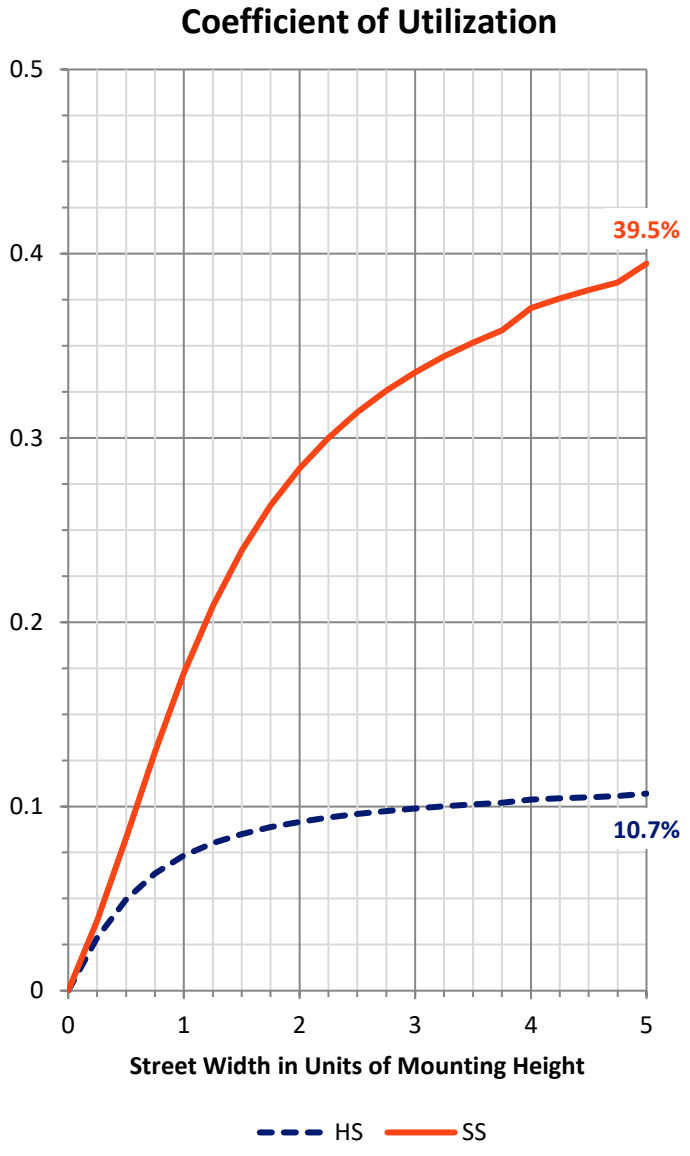
REPORT NUMBER: P1045946
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.3	401.7	824.0
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	1658.2	1170.4	2828.6
	% Fixture	45.4	32.0	77.4
Total	Lumens	2080.5	1572.1	3652.6
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	30.5	0.8
20°-30°	80.7	2.2
30°-40°	155.9	4.3
40°-50°	244.2	6.7
50°-60°	326.5	8.9
60°-70°	386.9	10.6
70°-80°	421.5	11.5
80°-90°	429.1	11.7
90°-100°	406.9	11.1
100°-110°	359.8	9.9
110°-120°	292.2	8.0
120°-130°	215.1	5.9
130°-140°	142.6	3.9
140°-150°	84.0	2.3
150°-160°	44.4	1.2
160°-170°	20.9	0.6
170°-180°	6.1	0.2
0°-90°	2080.5	57.0
0°-180°	3652.6	100.0



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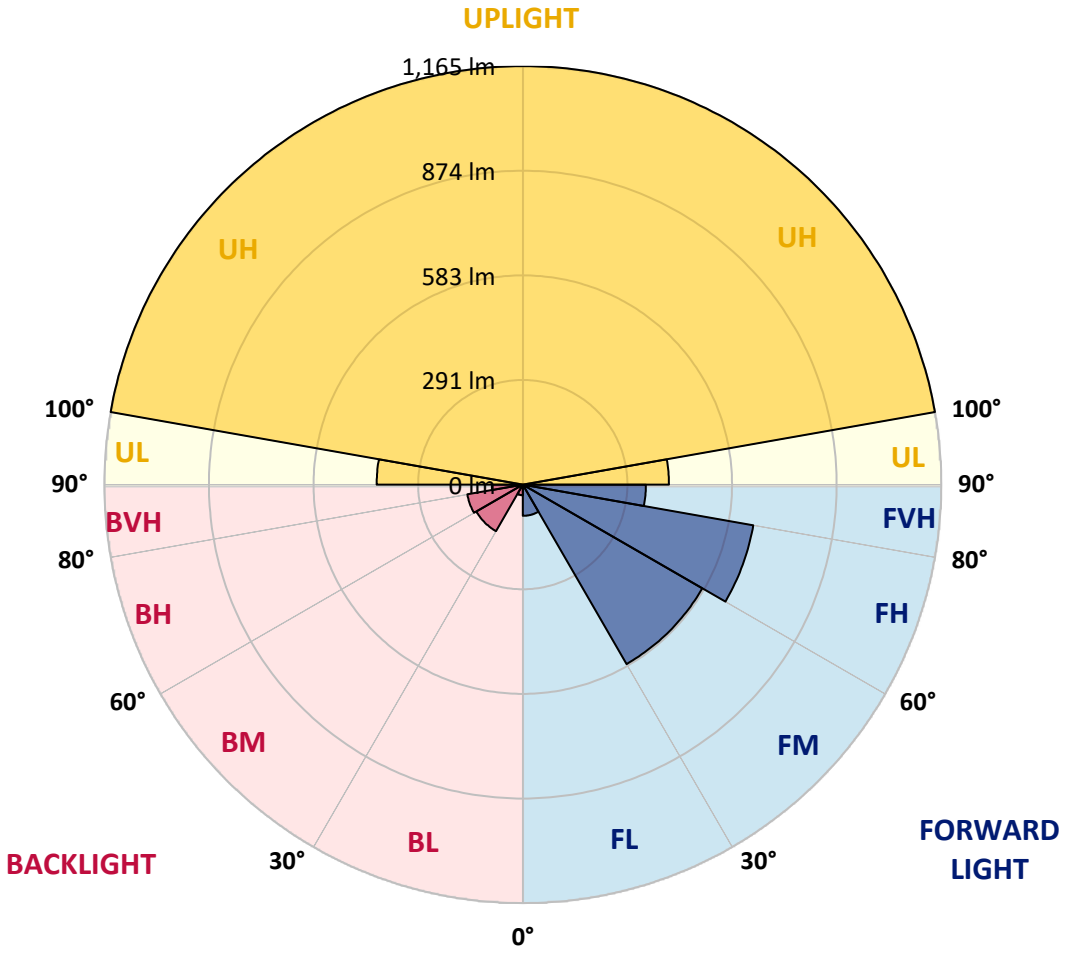
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	86.9	2.4			
FM	(30°-60°)	577.1	15.8			
FH	(60°-80°)	651.6	17.8			G0/660
FVH	(80°-90°)	342.6	9.4			G3/500
BL	(0°-30°)	29.5	0.8	B0/110		
BM	(30°-60°)	149.5	4.1	B0/220		
BH	(60°-80°)	156.8	4.3	B1/500		G1/500
BVH	(80°-90°)	86.5	2.4			G1/100
UL	(90°-100°)	406.9	11.1		U3/500	
UH	(100°-180°)	1165.2	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°	41.8	41.8	41.8	*41.8*	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	51.0	51.0	51.4	*51.4*	51.8	51.0	49.9	49.1	48.0	45.3	43.0
5°	71.0	71.4	70.6	*71.0*	71.4	69.5	66.8	63.3	58.3	53.7	48.7
7.5°	95.2	96.3	94.4	*94.0*	92.9	89.8	86.0	80.6	75.2	69.1	61.8
10°	121.7	121.3	119.0	*116.3*	115.5	111.7	106.7	101.7	93.6	86.0	78.3
12.5°	146.6	146.2	144.3	*142.4*	141.2	136.2	130.1	124.4	115.9	105.9	96.3
15°	172.7	173.1	171.2	*170.0*	167.7	162.7	157.7	149.3	140.9	129.3	117.8
17.5°	198.8	199.6	197.7	*196.9*	195.0	190.7	184.2	175.4	164.6	151.2	136.6
20°	227.6	228.4	227.2	*224.5*	222.2	217.6	211.9	200.7	188.8	175.0	156.2
22.5°	258.3	258.7	255.2	*254.5*	252.2	247.9	239.5	229.5	216.1	198.4	178.8
25°	288.6	288.6	287.8	*287.1*	283.6	278.6	270.2	257.9	242.9	224.1	201.1
27.5°	321.2	321.6	319.7	*318.9*	316.2	309.7	300.9	287.5	272.1	249.5	223.4
30°	355.8	355.4	353.5	*351.9*	350.8	344.3	334.3	320.5	301.3	275.2	248.7
32.5°	390.3	389.2	388.0	*386.5*	386.1	377.7	369.6	352.7	332.8	305.1	273.3
35°	425.6	422.9	422.2	*422.6*	420.6	413.7	401.8	385.3	362.3	333.5	297.4
37.5°	456.3	458.6	456.7	*455.2*	455.6	447.9	435.2	416.8	392.6	360.8	322.0
40°	490.5	489.0	489.0	*489.0*	487.8	480.9	467.5	447.1	419.5	385.7	343.5
42.5°	520.0	520.0	522.0	*520.8*	519.7	511.6	497.0	474.4	445.2	408.7	364.2
45°	550.4	549.6	551.9	*550.4*	549.6	541.2	525.8	502.4	471.7	431.8	384.9
47.5°	578.4	578.8	579.5	*579.5*	578.8	569.2	553.1	525.4	494.3	451.7	402.6
50°	602.6	604.5	606.8	*605.2*	606.0	595.7	577.6	549.6	513.5	470.5	418.3
52.5°	626.4	626.4	629.4	*629.4*	628.7	618.7	598.3	568.8	533.1	487.4	432.9
55°	646.7	647.1	649.8	*650.2*	649.8	638.3	616.8	584.9	547.7	501.6	444.8
57.5°	662.0	663.2	666.7	*667.8*	666.3	655.9	631.7	599.5	560.0	512.8	455.2
60°	675.9	677.4	681.2	*682.8*	681.6	670.5	645.2	610.6	569.9	522.3	464.0
62.5°	688.1	688.5	693.5	*694.3*	693.9	682.0	655.1	619.1	578.0	529.6	471.7
65°	697.0	698.1	703.5	*704.7*	703.9	691.2	663.2	626.0	584.5	535.8	477.4
67.5°	703.9	704.7	710.0	*711.9*	711.2	697.7	669.0	630.2	588.4	540.0	482.0
70°	707.7	708.9	715.0	*716.5*	715.8	702.3	672.4	632.1	590.7	543.1	485.1
72.5°	710.0	711.2	717.7	*719.6*	719.2	705.0	673.9	632.9	591.4	544.6	487.4
75°	*711.2*	*712.3*	*718.9*	*721.5*	*720.4*	*706.2*	*674.3*	*632.5*	*591.0*	*545.8*	*489.3*
76°	711.2	711.9	718.9	*721.5*	720.4	706.2	674.3	631.7	590.7	546.1	490.1
77.5°	710.4	711.6	718.5	*720.8*	720.0	705.8	673.2	630.2	589.5	545.4	490.5
80°	708.5	709.6	716.2	*718.9*	717.7	703.1	670.5	627.1	586.4	543.8	490.5
82.5°	704.3	705.4	711.6	*713.5*	713.1	698.5	665.5	621.8	581.8	541.2	489.7
85°	697.7	698.9	703.9	*706.2*	705.0	691.2	658.2	614.5	576.1	536.9	487.4
87.5°	688.9	689.7	695.1	*695.8*	695.4	681.6	649.0	605.2	568.4	531.2	483.6
90°	678.2	678.9	683.2	*684.3*	683.2	670.1	637.1	595.3	558.8	524.3	479.0
92.5°	667.0	666.7	669.7	*670.9*	669.7	656.7	624.8	583.4	548.8	516.6	473.2
95°	654.0	654.8	655.5	*656.3*	654.8	642.1	611.0	570.3	538.1	508.1	467.8
97.5°	639.4	639.0	639.8	*639.8*	638.3	625.6	595.3	557.7	525.8	498.9	460.6
100°	624.1	623.7	622.9	*621.4*	619.8	607.6	579.5	541.9	513.1	487.8	453.3
102.5°	607.2	604.9	602.6	*602.2*	598.7	588.4	561.5	527.0	499.7	477.4	444.1
105°	586.4	585.7	582.2	*579.1*	577.2	565.7	541.2	510.5	485.5	464.8	434.1
107.5°	565.3	563.8	558.8	*557.7*	553.8	543.5	521.2	493.9	471.3	452.1	422.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	542.7	541.9	536.5	*533.1*	530.0	518.5	499.3	476.3	455.6	437.9	408.7
112.5°	517.4	516.6	510.8	*508.1*	503.5	494.7	476.7	456.0	438.3	422.2	394.2
115°	491.6	491.3	484.7	*481.3*	477.1	466.3	451.7	435.6	419.9	403.8	376.5
117.5°	465.9	464.0	457.5	*453.3*	449.0	439.4	427.5	414.9	400.3	385.3	358.5
120°	436.8	436.4	429.1	*425.6*	421.8	413.0	402.6	390.7	379.2	364.2	340.4
122.5°	408.7	408.4	401.8	*397.6*	392.6	385.7	377.3	368.1	357.7	343.1	319.7
125°	380.3	379.6	372.7	*368.4*	364.2	358.5	350.4	343.9	335.4	321.6	299.4
127.5°	351.6	350.0	345.8	*341.6*	337.0	329.7	327.0	321.2	312.0	298.6	279.0
130°	324.7	323.9	318.2	*314.3*	309.7	304.0	301.7	297.1	290.5	278.3	259.8
132.5°	296.7	295.9	292.5	*288.6*	284.8	279.0	277.9	273.6	267.1	257.1	239.9
135°	271.7	271.0	267.1	*262.9*	261.0	256.8	255.2	251.8	245.6	235.7	220.7
137.5°	247.5	247.2	243.3	*239.9*	237.6	234.5	233.0	229.9	225.3	216.5	202.6
140°	225.7	223.8	220.7	*217.6*	215.3	212.2	211.5	208.8	205.3	196.9	186.9
142.5°	203.8	202.6	200.3	*197.7*	196.1	192.7	190.7	189.6	185.0	178.5	170.4
145°	182.3	182.3	180.4	*178.5*	176.2	173.9	172.3	171.2	167.3	161.6	153.9
147.5°	164.3	164.3	162.7	*162.0*	160.0	157.0	155.8	154.7	151.2	146.6	140.5
150°	148.9	148.1	147.0	*145.8*	144.3	141.6	139.7	138.6	135.9	132.4	126.7
152.5°	133.6	133.6	132.8	*131.3*	130.1	128.2	126.7	125.1	123.2	119.4	114.8
155°	120.5	120.5	119.4	*118.6*	117.8	116.3	114.8	113.2	110.9	107.8	104.4
157.5°	109.8	109.8	109.0	*108.6*	107.1	106.3	104.8	103.2	100.9	98.3	95.2
160°	99.8	100.2	99.8	*99.4*	98.3	97.1	95.6	94.0	92.1	89.8	87.5
162.5°	91.7	92.1	91.3	*91.0*	90.2	89.0	87.5	86.7	85.2	82.5	80.2
165°	84.8	84.8	84.4	*84.1*	83.7	82.1	81.4	80.6	79.1	77.1	75.2
167.5°	79.4	79.4	79.1	*79.1*	78.3	77.5	76.4	75.6	74.1	72.9	70.6
170°	74.8	74.8	74.5	*74.1*	73.7	72.9	72.2	71.0	70.2	68.7	67.5
172.5°	71.0	71.0	70.6	*70.2*	70.2	69.1	68.7	67.9	67.2	66.0	64.9
175°	67.9	67.5	67.5	*67.2*	66.8	66.0	65.6	65.2	64.5	64.1	63.3
177.5°	65.2	65.2	64.9	*64.9*	64.5	63.7	63.7	63.3	62.9	62.6	62.2
180°	61.8	61.8	61.8	*61.8*	61.8	61.8	61.8	61.8	61.8	61.8	61.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2.5°	41.8	40.7	37.6	34.9	33.0	30.3	28.0	27.2	26.9	26.5	26.5
5°	46.1	43.8	38.4	33.4	28.8	24.9	21.5	18.0	15.4	13.8	13.0
7.5°	58.0	55.3	48.0	41.5	34.9	29.2	23.4	19.2	15.4	13.0	13.0
10°	73.7	69.9	60.6	51.4	43.4	34.9	28.0	22.3	18.8	16.9	16.9
12.5°	90.2	85.2	74.5	62.6	51.4	41.8	33.4	27.2	23.4	21.9	21.9
15°	109.8	103.2	89.4	74.5	61.0	49.5	39.9	33.0	28.4	26.5	26.1
17.5°	128.6	120.1	103.6	86.7	70.6	56.8	45.7	36.8	31.9	29.2	28.8
20°	148.5	138.2	118.6	97.9	79.4	62.6	49.1	39.5	33.0	29.9	29.6
22.5°	167.0	155.8	132.4	108.2	86.4	66.8	51.0	39.9	32.6	29.2	28.8
25°	188.1	175.4	147.8	119.4	93.6	70.2	52.6	39.9	32.2	28.4	28.0
27.5°	209.6	194.6	163.5	130.5	100.2	74.1	53.7	39.9	31.5	27.6	27.2
30°	232.2	215.7	178.5	142.0	107.1	77.1	54.9	39.5	31.1	26.9	26.5
32.5°	255.2	236.0	195.0	153.1	114.0	80.2	55.7	39.5	30.3	26.5	25.7
35°	278.6	256.4	211.5	164.6	120.1	82.9	56.0	39.1	29.9	25.7	25.3
37.5°	299.4	276.3	226.8	175.0	125.9	84.8	56.4	38.8	29.6	25.3	24.9
40°	320.5	295.5	241.4	184.2	130.1	86.0	56.0	38.4	28.8	24.9	24.6
42.5°	339.7	312.8	254.8	193.0	133.9	87.1	55.7	37.6	28.4	24.6	24.2
45°	358.1	329.7	267.5	200.7	137.4	87.5	54.9	37.2	28.0	24.6	24.2
47.5°	375.0	344.3	279.8	208.0	140.5	87.5	54.5	36.5	28.0	24.6	24.2
50°	389.2	358.9	289.8	214.5	142.4	87.1	53.7	36.1	28.0	24.6	24.2
52.5°	403.0	370.7	299.7	219.5	143.5	86.4	52.6	35.7	28.0	24.9	24.6
55°	414.1	381.5	308.2	224.9	144.7	85.6	51.8	35.3	28.0	24.9	24.9
57.5°	423.7	390.3	314.7	228.4	144.7	84.1	51.0	35.3	28.4	25.7	25.3
60°	432.9	398.4	321.6	231.4	144.7	82.9	50.3	35.3	28.8	26.1	25.7
62.5°	439.1	404.9	327.0	234.1	143.9	81.7	49.5	35.3	29.2	26.9	26.5
65°	445.2	411.0	332.0	236.4	143.5	80.6	49.5	35.7	29.9	28.0	27.6
67.5°	449.8	416.0	335.4	238.0	142.8	79.4	49.1	36.5	31.1	29.2	28.8
70°	453.6	419.9	339.7	239.1	142.0	78.7	49.5	37.6	32.2	30.3	30.3
72.5°	456.7	423.3	342.0	240.3	141.2	78.3	50.3	38.8	34.2	32.2	31.9
75°	*458.6*	*425.2*	*344.3*	*240.6*	*140.5*	*77.9*	*51.0*	*40.3*	*35.7*	*34.2*	*33.8*
76°	459.0	426.0	345.0	241.0	140.1	77.9	51.4	40.7	36.5	34.9	34.5
77.5°	460.2	427.2	345.8	241.0	139.7	77.9	52.2	41.8	37.6	36.1	36.1
80°	460.9	427.9	347.0	241.4	138.9	77.9	53.3	43.8	39.9	38.4	38.0
82.5°	460.6	428.3	347.3	240.6	138.6	78.3	54.9	45.7	42.2	40.7	40.3
85°	459.0	427.2	346.6	239.5	137.4	79.1	56.4	48.0	44.1	42.6	42.6
87.5°	456.3	424.5	344.6	238.0	136.6	79.4	58.0	49.9	46.4	44.9	44.9
90°	452.5	421.4	342.3	236.4	135.5	79.8	59.9	51.8	48.7	47.6	47.2
92.5°	447.9	417.6	339.3	234.1	134.7	80.6	61.4	54.1	51.0	49.5	49.5
95°	443.3	413.3	335.8	231.4	133.9	81.7	62.9	56.0	53.0	51.8	51.8
97.5°	436.8	407.6	331.2	228.4	132.8	82.1	64.9	58.0	55.3	53.7	53.7
100°	428.7	401.1	325.8	225.3	132.0	83.3	66.4	59.9	57.2	56.0	55.7
102.5°	420.6	393.4	320.1	221.8	130.9	83.7	67.9	61.8	58.7	57.6	57.6
105°	411.4	384.9	312.8	217.2	129.7	84.4	69.1	62.9	60.3	59.1	58.7
107.5°	400.7	374.2	305.5	213.0	128.6	85.2	70.2	64.1	61.4	60.3	59.9

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

Scaled Data Report

REPORT NUMBER: P1045946
CATALOG NUMBER: FFX-CLB-30-740-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	388.4	364.2	296.7	208.4	127.8	86.4	71.4	64.9	62.2	60.6	60.6
112.5°	374.2	350.0	287.1	203.0	127.8	87.9	72.2	65.6	62.6	61.0	61.0
115°	357.3	335.1	275.6	198.0	127.4	89.4	73.7	66.0	62.6	61.4	61.0
117.5°	340.8	319.3	264.1	193.0	128.6	92.1	75.2	66.8	62.6	61.0	61.0
120°	322.4	302.8	252.2	188.1	130.1	94.8	77.1	67.2	62.6	60.6	60.6
122.5°	303.2	285.2	240.6	183.5	131.3	97.9	78.7	67.9	62.2	60.3	59.9
125°	285.2	267.1	227.6	178.8	132.4	100.6	80.6	68.3	61.8	59.5	59.1
127.5°	265.2	251.4	216.1	173.9	133.2	102.9	82.1	68.7	61.4	58.7	58.3
130°	247.9	234.5	204.6	168.5	132.4	103.6	82.5	68.3	60.6	58.0	58.0
132.5°	228.7	218.0	191.9	161.6	130.5	103.6	82.9	68.3	60.3	57.6	57.2
135°	211.9	201.9	180.0	153.9	127.0	102.1	82.1	67.9	59.9	57.2	56.8
137.5°	196.1	186.5	167.3	145.8	122.0	99.4	80.6	67.2	59.5	56.8	56.4
140°	179.2	172.3	155.8	137.0	116.7	96.3	78.7	66.4	59.5	56.8	56.4
142.5°	163.9	158.1	143.2	127.4	109.8	91.7	76.4	65.2	59.1	56.8	56.4
145°	150.1	143.5	132.0	117.8	102.9	87.5	74.1	64.5	58.7	56.8	56.4
147.5°	136.6	130.9	121.3	109.0	96.7	83.3	71.8	63.3	58.7	56.8	56.4
150°	123.2	119.4	110.9	100.9	89.8	79.1	69.5	62.6	58.7	57.2	56.8
152.5°	111.7	109.0	101.7	93.6	84.1	74.8	67.2	61.8	58.7	57.2	57.2
155°	102.1	99.4	93.3	86.0	79.1	71.4	65.6	61.0	58.7	57.6	57.2
157.5°	92.5	90.6	85.6	80.2	74.5	68.7	64.1	60.6	58.7	57.6	57.6
160°	85.2	83.3	79.4	75.2	70.6	66.4	62.6	59.9	58.7	58.0	58.0
162.5°	79.1	77.5	74.5	71.0	67.5	64.1	61.4	59.5	58.7	58.0	58.0
165°	74.1	72.9	70.2	67.5	65.2	62.6	60.6	59.5	58.7	58.3	58.3
167.5°	69.9	69.1	67.2	65.2	63.3	61.4	59.9	59.1	58.7	58.7	58.7
170°	66.8	66.0	64.9	63.3	61.8	60.6	59.5	59.1	59.1	58.7	59.1
172.5°	64.5	64.1	62.9	61.8	61.0	59.9	59.5	59.1	59.5	59.5	59.5
175°	62.9	62.6	61.8	61.0	60.6	59.9	59.9	59.5	59.9	60.3	60.3
177.5°	61.8	61.4	61.0	61.0	60.6	60.3	60.3	60.6	61.0	61.0	61.0
180°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

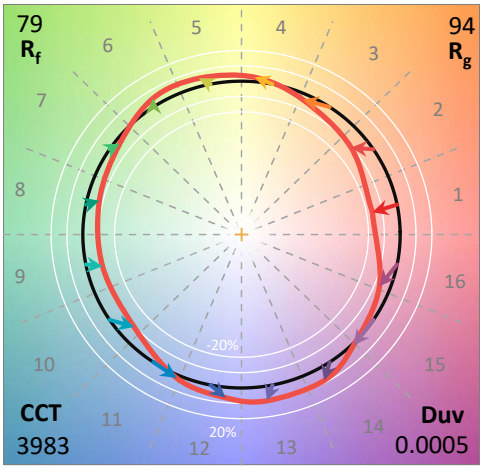
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-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):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

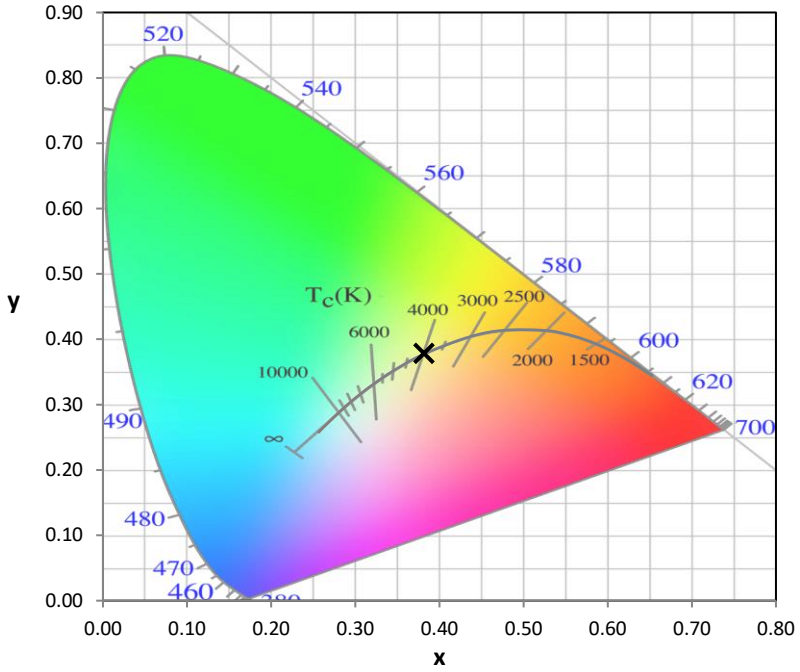
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

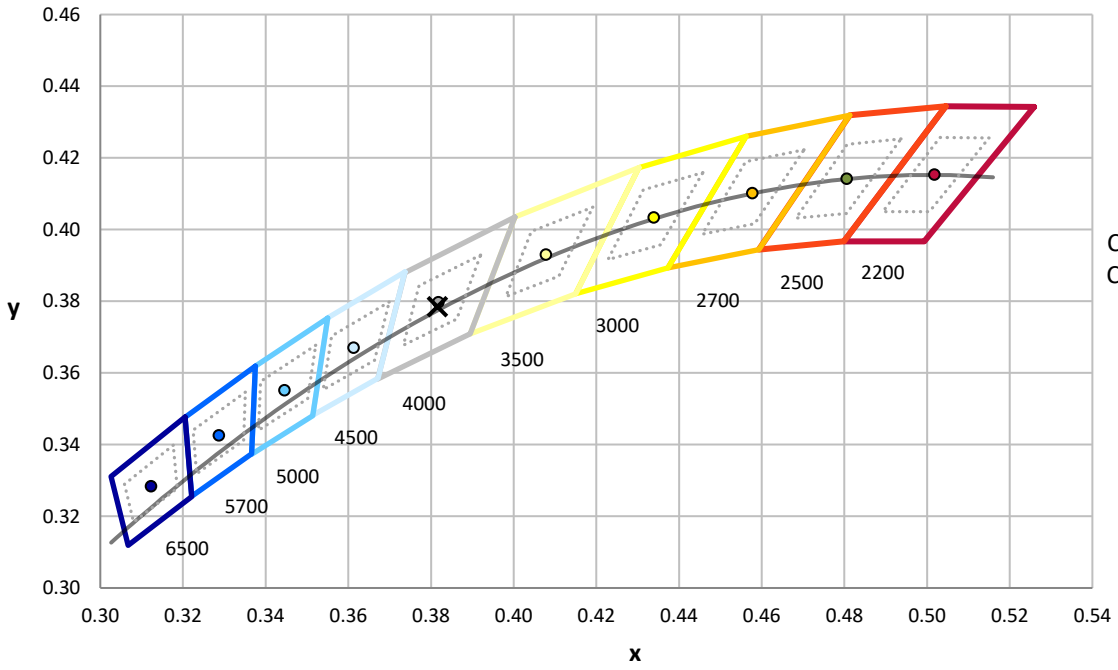
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

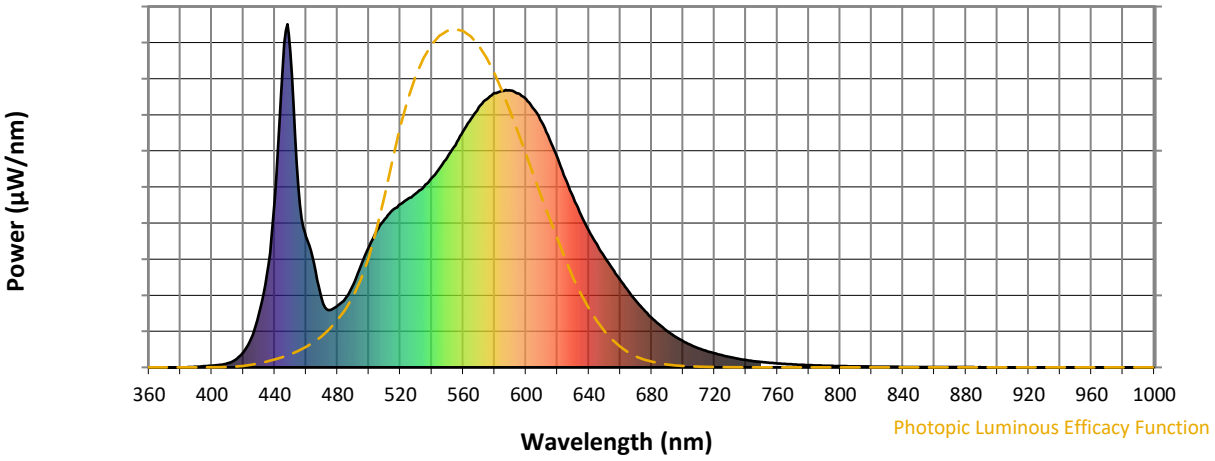


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

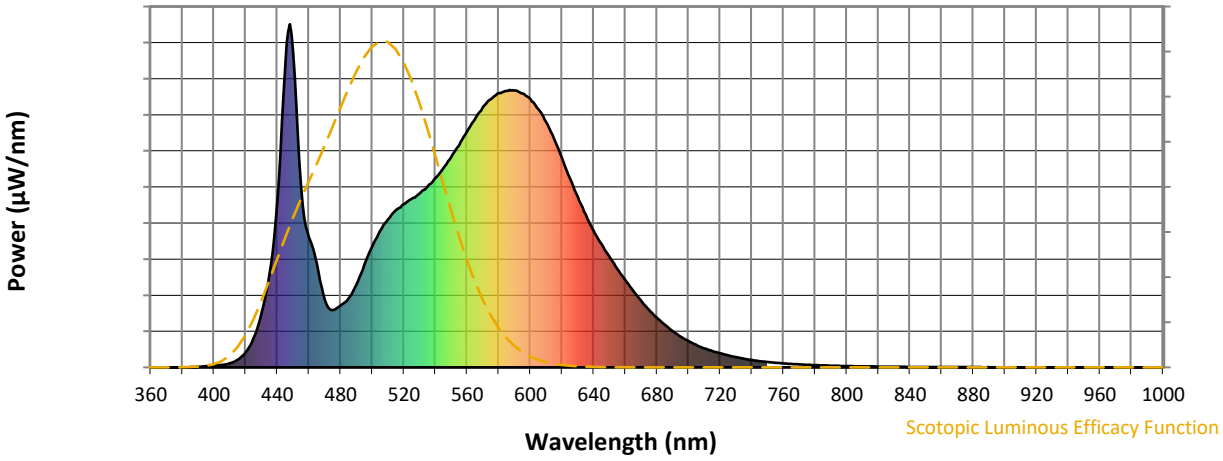


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

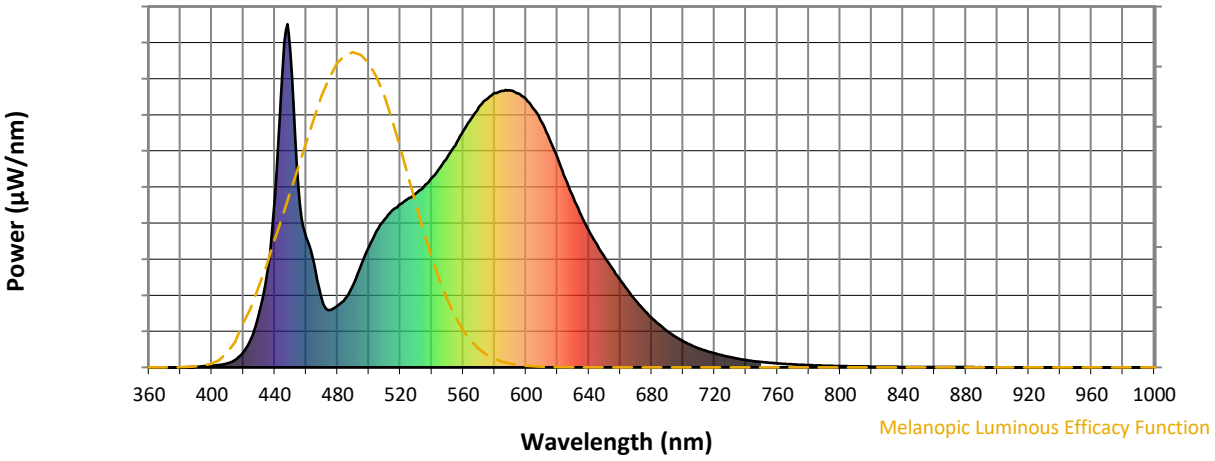


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

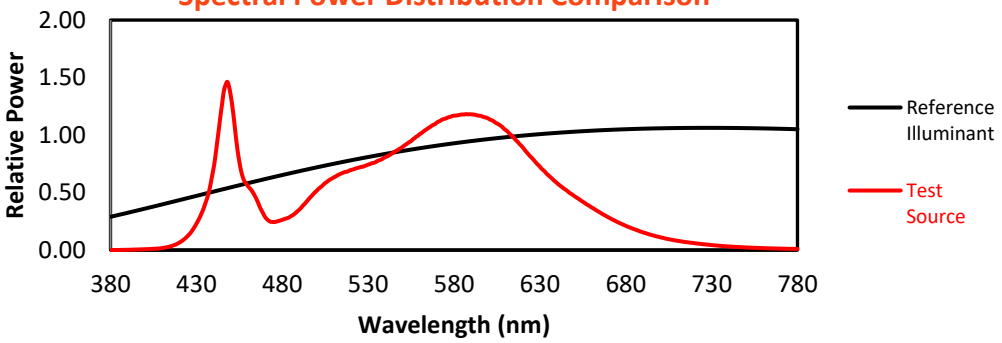
REPORT NUMBER: SP1-2501-332-11

TM-30-18

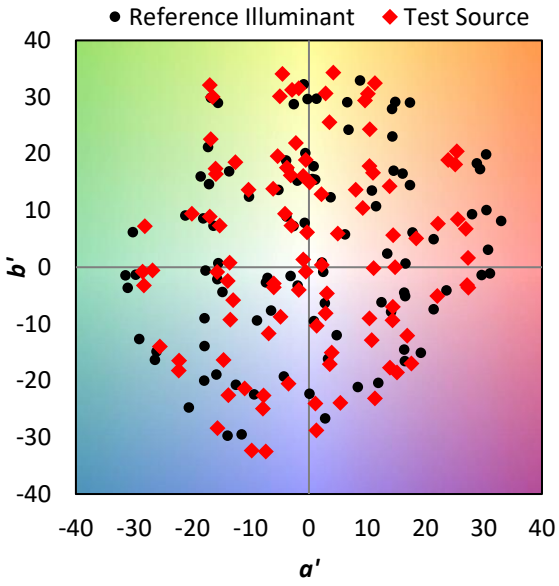
Summary

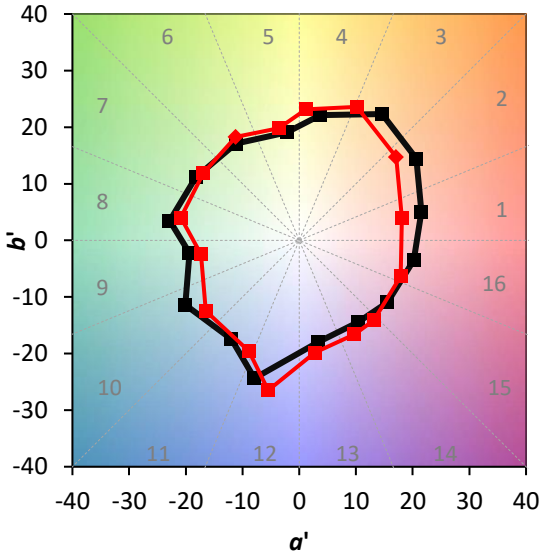
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

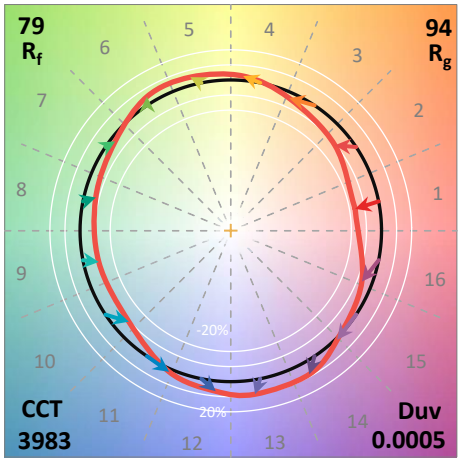
Spectral Power Distribution Comparison

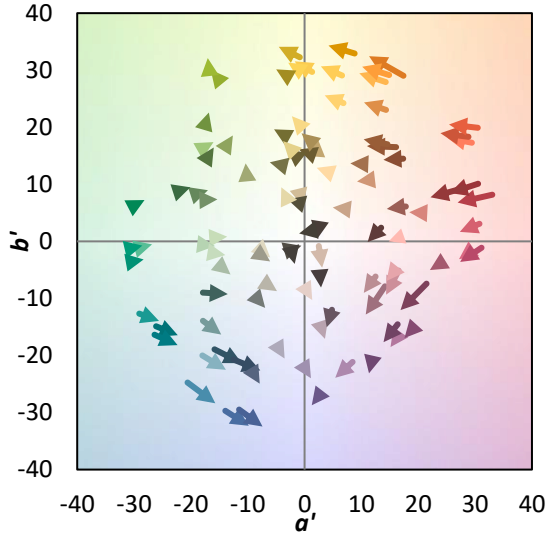


Color Vector Graphics







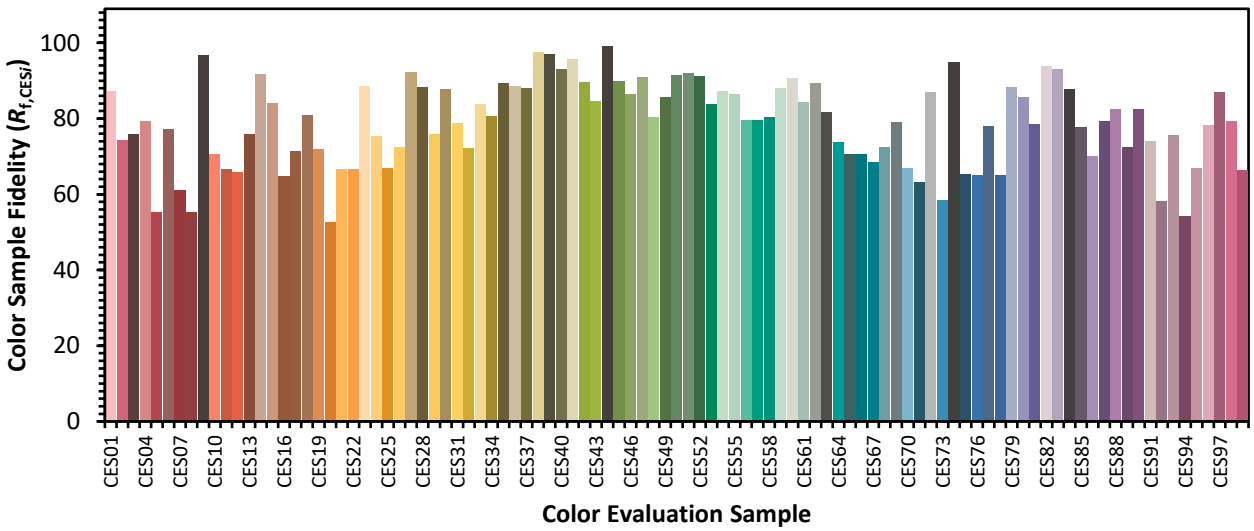


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

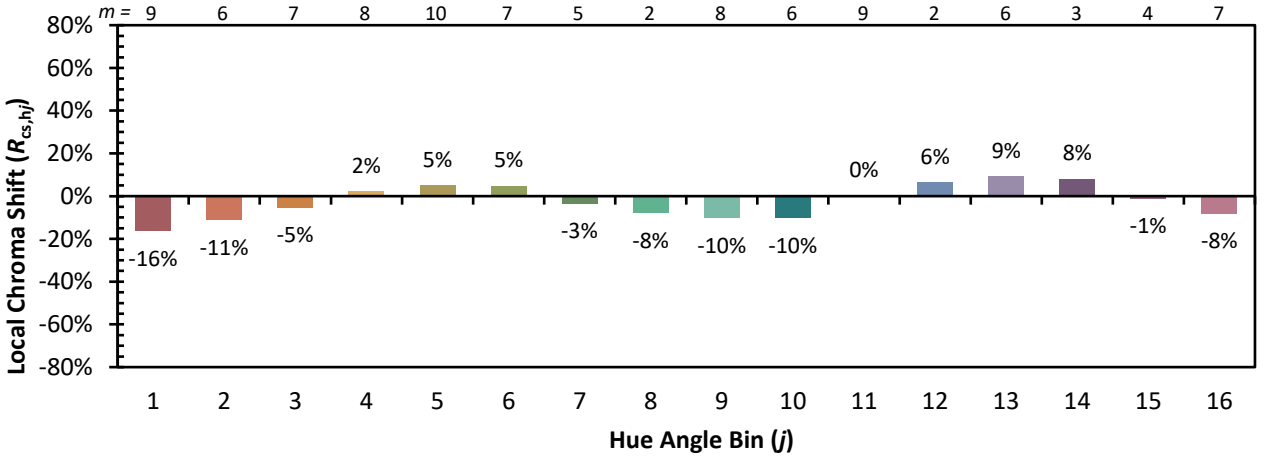
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

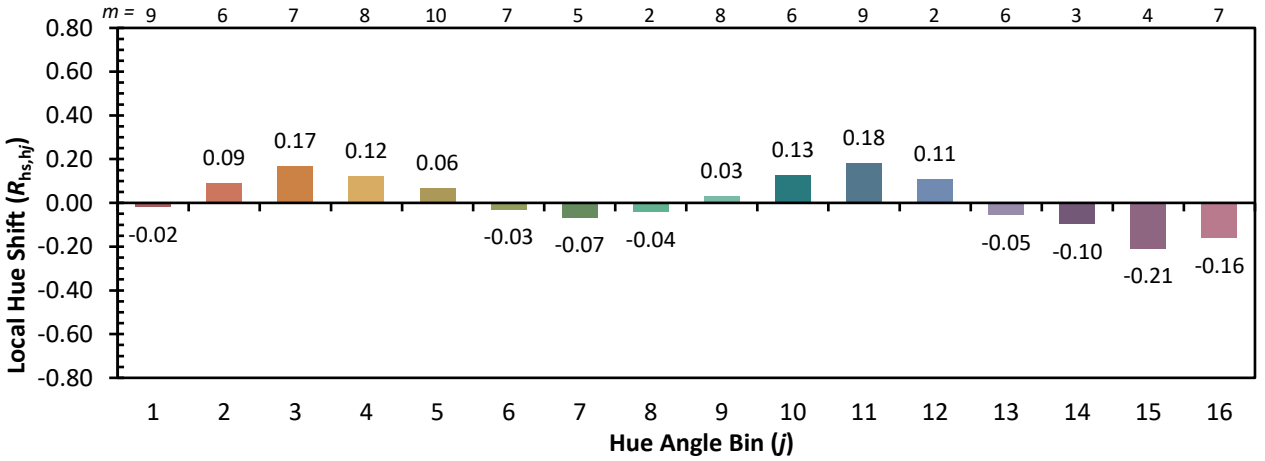


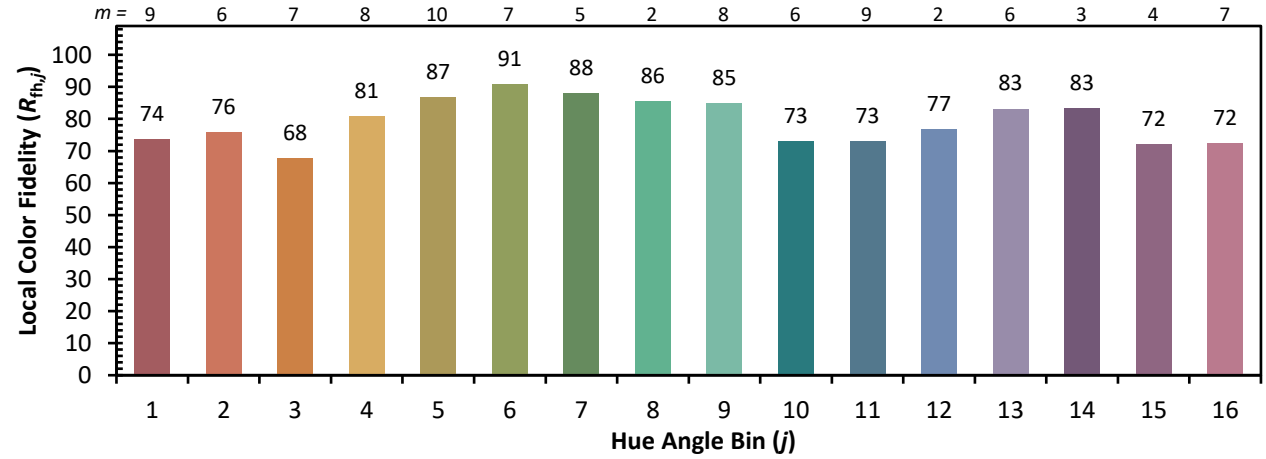
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Color Rendition by Hue-Angle Bin



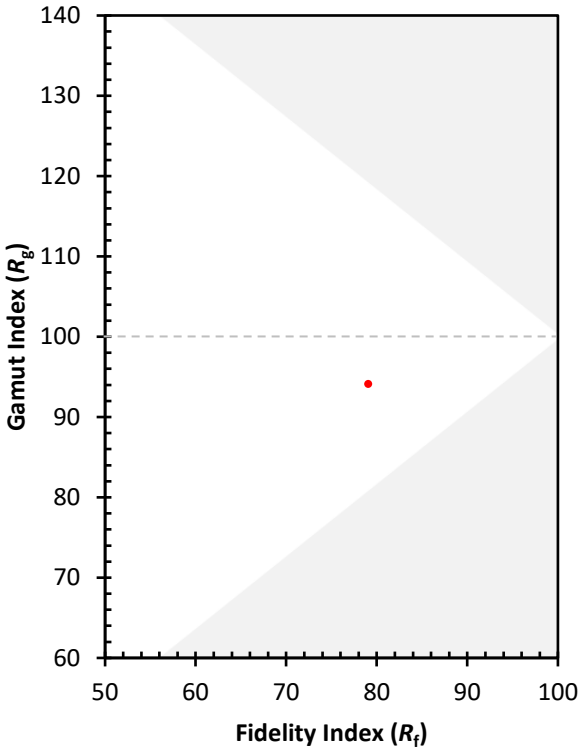


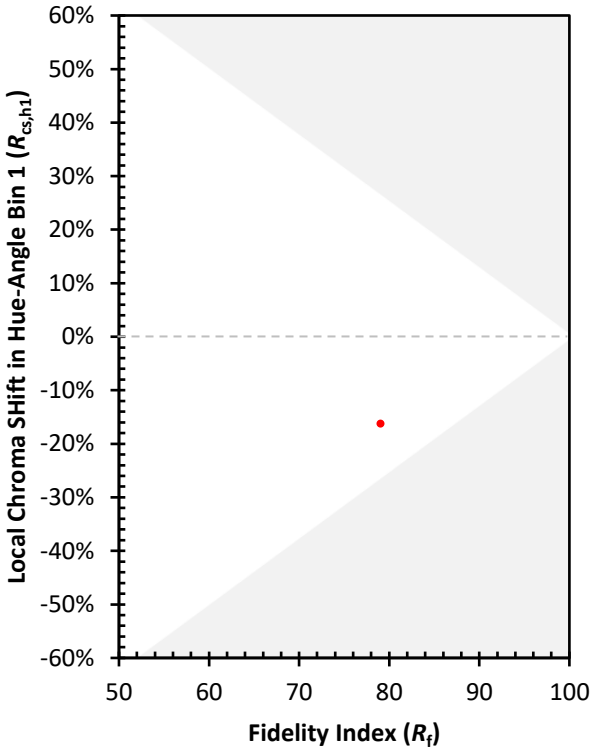


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Measure Comparisons





(END OF REPORT)