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: P1045910

Luminaire Tested: **FFX-CLB-30-750-U-VM9-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:	P1045910
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-750-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3491 lumens
Efficiency:	N/A
Efficacy:	114.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
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

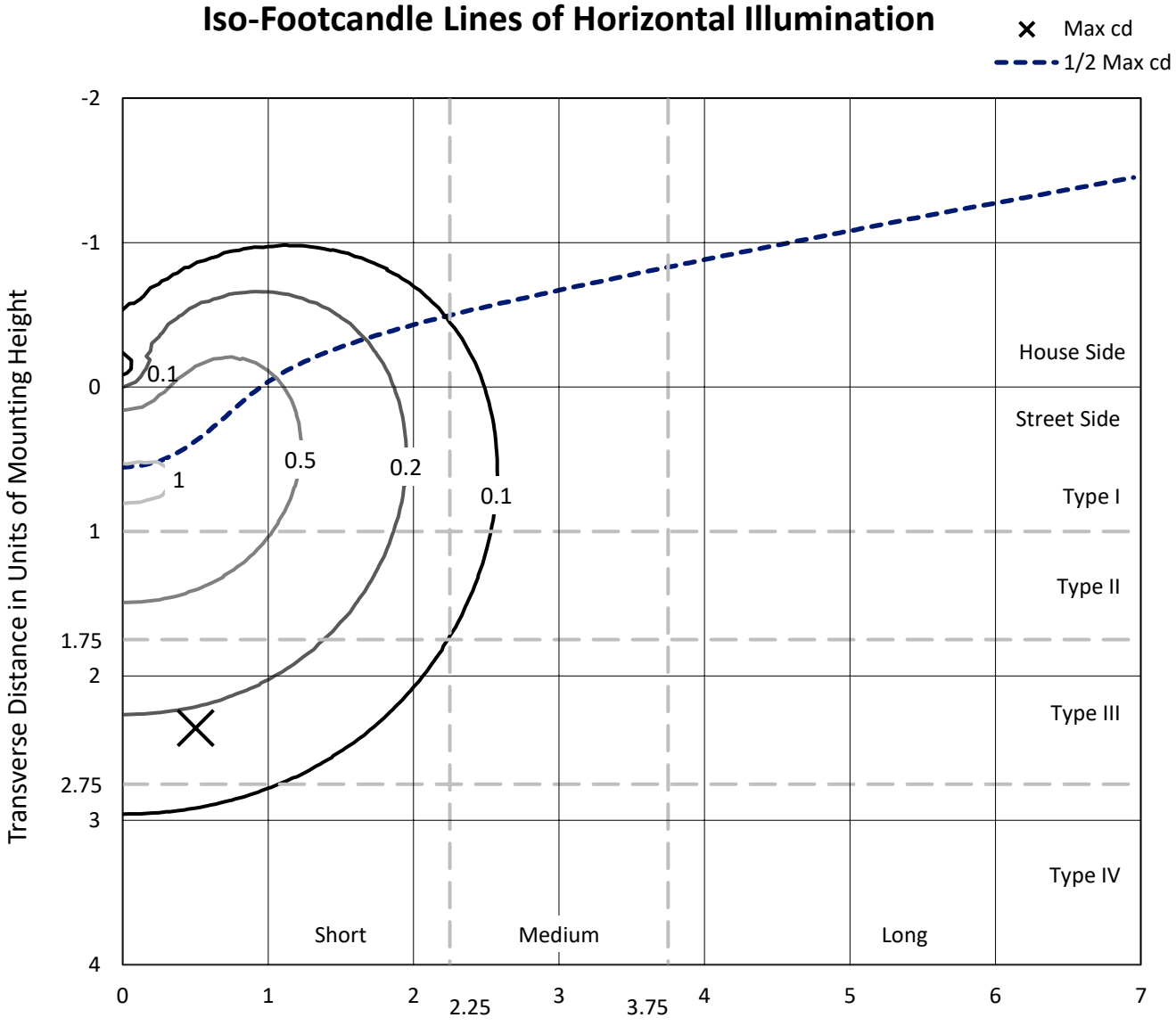


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Iso-Footcandle Lines of Horizontal Illumination



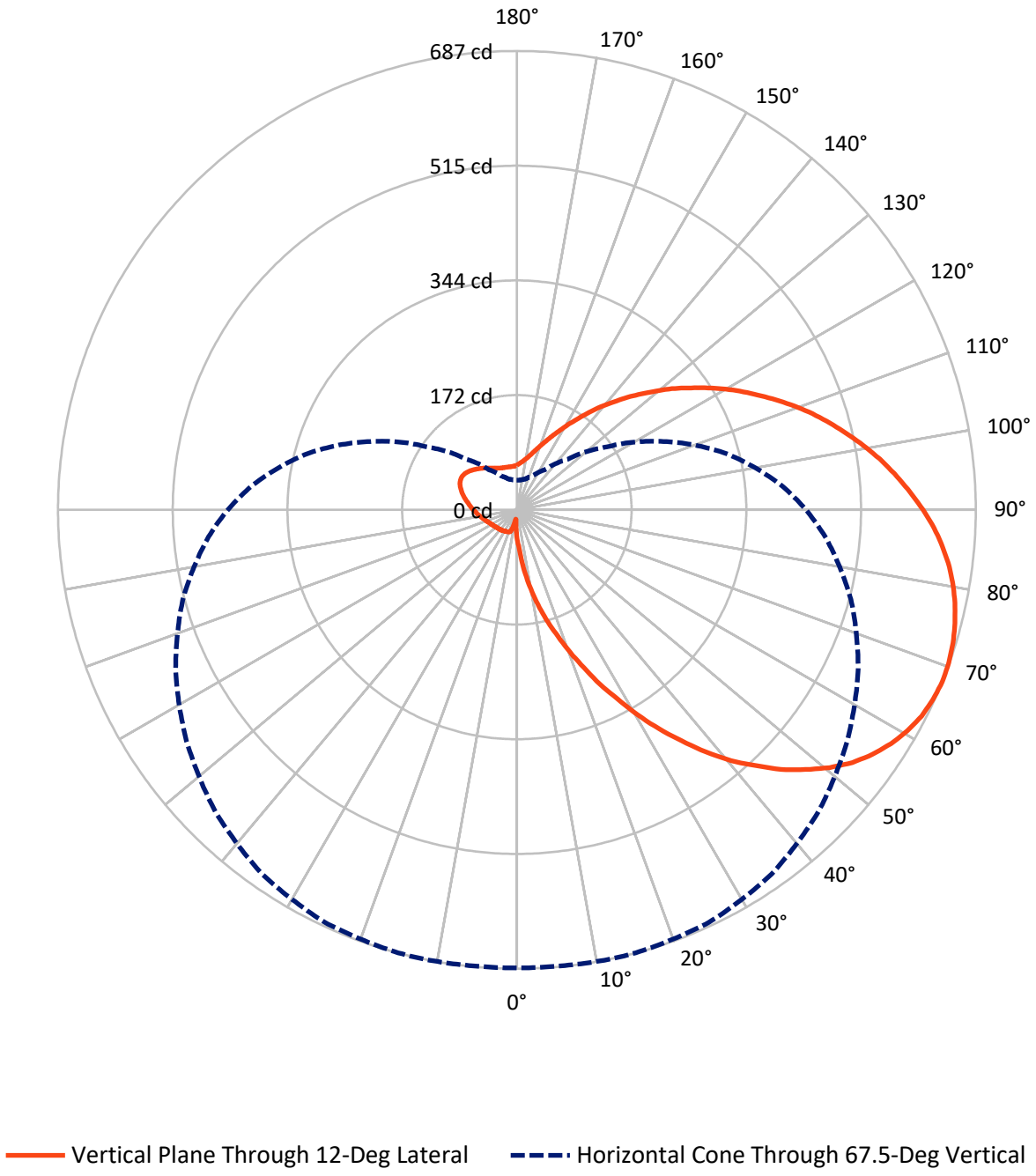
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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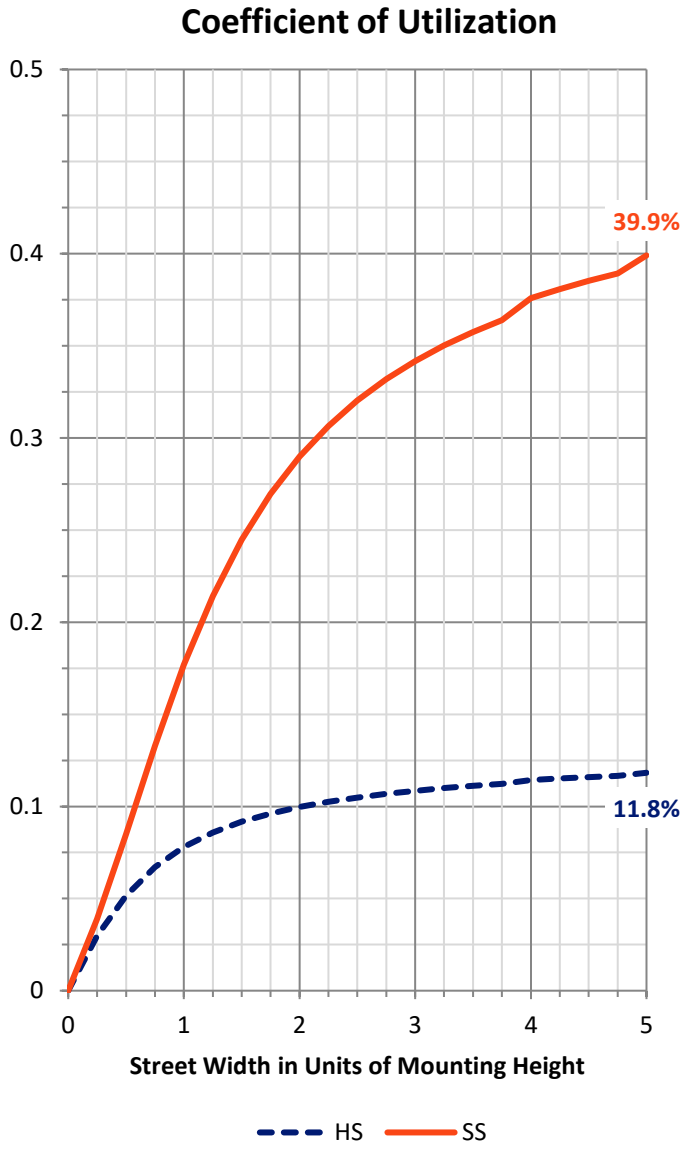
REPORT NUMBER: P1045910
CATALOG NUMBER: FFX-CLB-30-750-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.2	434.8	884.1
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	1588.4	1018.5	2606.9
	% Fixture	45.5	29.2	74.7
Total	Lumens	2037.6	1453.3	3491.0
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.2
10°-20°	31.1	0.9
20°-30°	81.0	2.3
30°-40°	157.2	4.5
40°-50°	246.9	7.1
50°-60°	327.7	9.4
60°-70°	381.9	10.9
70°-80°	405.7	11.6
80°-90°	400.6	11.5
90°-100°	369.4	10.6
100°-110°	322.3	9.2
110°-120°	265.0	7.6
120°-130°	200.6	5.7
130°-140°	137.0	3.9
140°-150°	84.0	2.4
150°-160°	46.1	1.3
160°-170°	22.2	0.6
170°-180°	6.6	0.2
0°-90°	2037.6	58.4
0°-180°	3491.0	100.0



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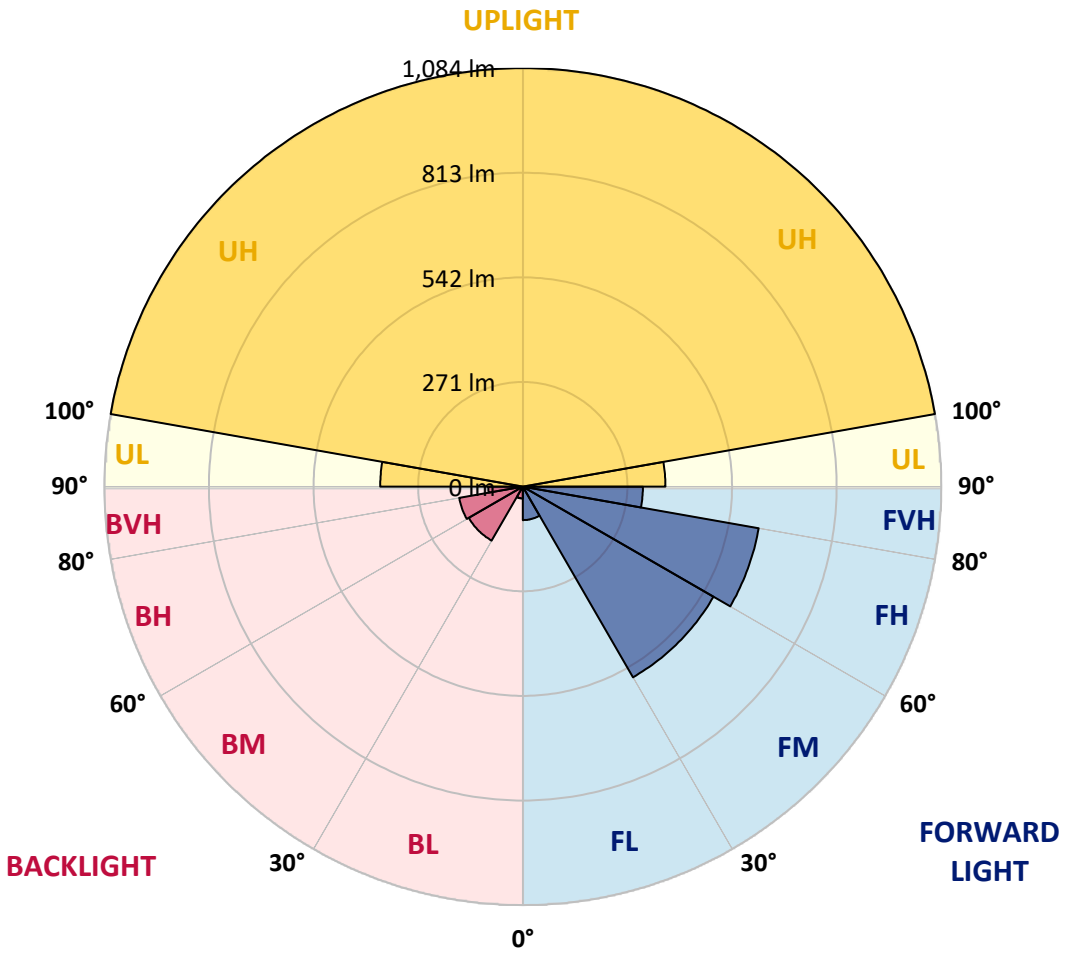
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	86.8	2.5			
FM	(30°-60°)	570.3	16.3			
FH	(60°-80°)	620.4	17.8			G0/660
FVH	(80°-90°)	310.9	8.9			G3/500
BL	(0°-30°)	30.8	0.9	B0/110		
BM	(30°-60°)	161.5	4.6	B0/220		
BH	(60°-80°)	167.3	4.8	B1/500		G1/500
BVH	(80°-90°)	89.7	2.6			G1/100
UL	(90°-100°)	369.4	10.6		U3/500	
UH	(100°-180°)	1084.0	31.1		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	55.3	56.5	55.3	56.8	56.1	56.1	54.1	52.2	49.5	46.5	43.8
5°	78.3	78.0	76.4	78.0	76.4	74.5	71.4	66.4	61.4	56.8	51.1
7.5°	102.2	102.5	101.4	101.0	97.5	94.9	89.9	84.9	78.7	71.8	64.9
10°	127.9	127.1	125.2	125.6	121.7	116.4	110.6	104.8	97.9	89.9	81.0
12.5°	151.7	151.7	150.2	150.5	146.3	140.2	135.6	127.9	119.4	109.8	99.1
15°	177.0	175.5	174.7	174.7	170.5	165.1	160.1	151.7	141.7	131.0	118.7
17.5°	200.5	200.1	199.3	199.7	195.9	191.3	183.2	174.7	162.8	149.8	137.1
20°	230.4	228.9	227.7	225.8	223.5	217.4	209.7	198.5	186.6	172.4	155.5
22.5°	257.7	259.6	256.5	255.0	251.9	246.9	235.8	225.0	210.8	194.3	175.9
25°	289.2	290.7	289.6	287.6	283.4	276.5	266.1	254.2	237.3	218.5	196.6
27.5°	322.2	323.4	320.3	321.1	313.8	307.2	296.9	282.3	266.1	243.9	220.8
30°	354.9	357.2	356.0	353.3	347.2	341.4	329.1	313.8	295.3	270.7	244.3
32.5°	393.3	390.6	391.0	387.9	384.0	374.8	364.1	346.8	325.3	299.2	268.8
35°	429.0	427.8	424.7	426.3	419.8	411.3	397.9	379.4	356.0	327.2	293.8
37.5°	460.8	462.0	460.1	458.9	454.7	445.1	429.4	410.5	383.7	353.3	316.8
40°	493.5	494.3	493.9	493.9	488.1	477.4	461.2	440.1	412.5	379.8	340.3
42.5°	524.6	525.4	523.4	523.8	519.2	508.1	490.8	468.5	437.8	403.6	360.6
45°	554.6	554.6	554.6	554.2	547.6	537.3	519.6	494.3	463.5	424.7	379.4
47.5°	582.2	581.4	581.1	581.1	576.8	564.5	545.7	518.1	484.7	444.0	397.9
50°	606.8	607.2	606.8	606.0	599.5	589.5	568.4	539.6	504.2	462.4	413.2
52.5°	627.9	628.3	628.7	626.8	622.5	610.6	587.2	556.5	520.8	477.0	425.9
55°	644.8	645.6	646.3	645.6	641.3	627.1	603.7	572.6	534.2	489.3	437.0
57.5°	660.6	660.2	660.6	659.8	655.2	641.3	617.2	583.7	545.0	499.3	445.5
60°	671.3	671.7	671.7	671.7	666.3	652.1	626.4	592.2	552.6	506.9	452.8
62.5°	678.6	679.0	680.1	679.4	674.4	659.4	632.9	598.3	558.4	511.9	457.8
65°	683.6	684.0	684.7	684.0	679.4	664.0	637.1	602.2	562.2	515.8	461.2
67.5°	685.9	685.9	687.0	686.7	681.3	665.5	638.7	603.7	563.8	517.7	463.5
70°	684.7	685.1	685.9	685.5	680.1	664.4	637.5	602.9	563.4	517.7	463.9
72.5°	682.1	682.1	682.8	682.1	677.1	661.3	634.8	600.6	561.5	516.9	463.5
75°	676.7	677.1	677.4	677.1	671.7	656.3	630.2	596.4	558.4	514.2	462.0
77.5°	670.2	670.5	670.5	670.5	664.8	649.4	624.1	591.0	554.2	511.2	459.3
80°	660.6	660.9	661.7	660.9	655.2	641.3	616.0	584.5	548.8	506.2	455.9
82.5°	649.8	649.4	650.6	650.2	644.4	630.6	605.6	575.7	540.7	500.4	450.9
85°	636.4	636.4	637.1	636.4	631.4	616.8	593.3	564.9	531.5	492.0	444.7
87.5°	621.4	621.4	622.1	620.6	614.8	602.2	579.9	552.3	521.5	483.5	437.8
90°	603.7	604.5	604.5	603.3	597.6	585.3	564.9	538.4	508.5	473.1	429.7
92.5°	586.8	586.8	586.0	586.0	579.9	567.6	548.8	524.6	496.6	462.8	420.9
95°	568.8	568.8	567.6	566.8	560.7	550.3	532.3	510.0	483.1	452.0	412.1
97.5°	549.6	549.2	548.4	547.6	541.5	531.5	515.4	493.9	469.3	439.7	402.5
100°	530.0	530.4	527.7	527.3	521.1	512.7	497.3	477.4	454.7	427.1	392.1
102.5°	508.5	509.2	506.9	506.5	500.4	491.2	478.9	460.8	440.5	415.1	381.7
105°	489.3	487.3	486.2	485.4	480.1	471.6	458.5	444.3	425.1	401.3	370.2
107.5°	467.4	467.8	465.5	463.9	458.5	451.6	440.1	427.1	410.2	387.5	359.1
110°	445.5	444.7	443.6	442.8	436.7	430.5	420.5	409.8	393.3	373.7	347.2

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CATALOG NUMBER: FFX-CLB-30-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	422.8	423.2	*421.3*	420.1	415.9	409.4	402.1	391.7	377.5	359.1	334.1
115°	401.7	400.9	*399.4*	398.6	394.0	389.0	381.7	374.1	361.4	343.7	321.1
117.5°	380.2	378.7	*378.3*	377.1	373.7	368.7	362.9	356.4	344.1	328.7	307.2
120°	357.9	357.9	*357.2*	356.4	351.8	347.6	344.1	337.2	326.8	312.2	293.8
122.5°	337.2	336.8	*335.3*	334.1	331.8	328.0	323.7	318.4	309.2	296.1	278.4
125°	314.5	315.3	*314.1*	313.8	309.9	308.0	304.2	300.7	291.1	279.2	263.5
127.5°	295.7	294.6	*294.6*	292.6	290.7	288.8	285.7	281.1	274.6	262.3	247.7
130°	275.7	275.0	*273.8*	273.8	271.5	268.8	266.9	263.1	255.8	245.8	232.0
132.5°	255.8	255.0	*254.2*	253.1	251.5	251.2	249.2	245.0	238.1	229.3	217.4
135°	237.0	236.6	*236.2*	236.2	233.9	232.7	230.4	227.0	222.4	214.3	202.8
137.5°	219.3	218.1	*217.4*	217.4	216.6	214.7	212.8	210.1	205.1	198.5	188.2
140°	200.9	201.6	*201.6*	201.2	199.7	198.5	196.2	193.9	188.9	183.6	174.7
142.5°	185.5	185.1	*184.3*	184.0	183.2	181.7	180.5	177.8	174.7	169.0	161.3
145°	169.0	169.0	*168.6*	169.0	167.4	167.1	165.5	163.2	159.8	154.8	148.2
147.5°	154.4	154.4	*154.0*	154.4	153.2	152.1	150.9	149.4	146.3	142.5	136.7
150°	140.9	141.3	*140.6*	140.6	140.2	139.0	138.3	136.0	133.6	130.6	125.6
152.5°	128.7	129.0	*128.7*	128.3	127.9	127.1	126.0	124.4	122.1	119.4	115.2
155°	118.3	117.9	*117.9*	117.9	117.5	116.4	116.4	114.1	111.8	109.8	105.6
157.5°	108.3	108.3	*108.3*	108.3	107.5	107.1	106.4	104.5	103.3	100.6	97.5
160°	100.2	99.9	*99.9*	99.9	99.1	98.7	97.5	96.8	95.2	92.9	90.6
162.5°	92.2	92.6	*92.6*	92.6	91.8	91.4	90.6	89.9	88.7	86.4	84.9
165°	86.0	86.0	*86.0*	85.6	85.3	85.3	84.1	83.7	82.6	81.0	79.9
167.5°	81.0	81.0	*80.6*	81.0	80.3	79.5	79.1	78.3	77.6	76.8	75.7
170°	76.8	76.8	*76.8*	76.8	76.4	76.0	75.3	74.9	74.1	73.4	72.2
172.5°	73.4	73.4	*73.4*	73.4	73.0	72.6	71.8	71.4	71.0	70.3	69.5
175°	70.7	70.7	*70.7*	70.7	70.3	69.9	69.1	69.1	68.7	68.4	67.6
177.5°	68.7	68.7	*68.4*	68.4	68.0	67.6	67.6	67.2	67.2	66.8	66.4
180°	66.4	66.4	*66.4*	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	42.2	40.7	38.0	35.7	33.0	31.1	29.2	28.8	28.8	29.6	29.6
5°	48.8	45.3	39.9	34.9	29.2	25.0	21.1	17.7	15.4	14.2	14.2
7.5°	61.1	58.4	50.3	43.4	36.5	30.0	23.8	18.4	14.6	11.9	11.5
10°	76.8	72.6	63.0	54.1	44.9	36.9	29.6	23.0	18.4	16.1	16.1
12.5°	93.7	87.9	76.4	65.7	54.9	44.5	36.1	29.6	25.0	22.7	21.9
15°	111.8	105.2	91.4	77.6	64.5	53.4	43.8	35.7	31.1	28.8	28.4
17.5°	128.7	121.4	105.6	89.1	74.1	60.7	49.2	40.7	34.9	32.3	31.9
20°	147.1	137.5	119.1	99.9	82.2	66.1	53.0	43.0	36.1	33.0	32.6
22.5°	165.9	154.8	132.9	110.6	89.5	71.0	55.7	44.2	36.5	33.0	32.6
25°	185.9	173.6	147.9	122.1	97.5	76.0	58.4	45.3	37.3	33.0	32.6
27.5°	207.0	193.2	163.6	134.4	105.6	81.0	61.1	46.9	37.6	33.4	32.6
30°	229.7	213.9	179.7	146.3	113.3	85.6	63.4	47.6	38.0	33.4	33.0
32.5°	252.3	233.1	197.4	157.8	121.4	89.9	65.7	48.8	38.4	33.8	33.4
35°	274.2	255.4	213.5	169.7	129.0	94.1	67.6	49.5	39.2	34.2	33.4
37.5°	296.5	276.1	228.9	180.9	136.0	97.5	69.1	50.3	39.6	34.6	33.8
40°	317.6	293.8	243.9	191.6	141.7	100.6	70.3	50.7	39.9	34.9	34.2
42.5°	337.6	312.2	258.1	200.9	147.5	102.9	71.4	51.5	40.3	35.3	34.9
45°	354.5	328.4	270.4	210.1	151.7	104.8	72.2	51.8	40.7	35.7	35.3
47.5°	371.0	342.9	281.9	217.4	155.9	106.8	72.6	52.2	41.1	36.5	36.1
50°	385.6	356.0	292.3	223.9	159.0	107.5	73.0	52.6	41.9	37.3	36.9
52.5°	397.9	367.1	300.3	229.3	161.3	108.3	73.0	52.6	42.2	38.0	37.6
55°	407.9	376.7	307.6	233.1	162.8	108.7	73.0	53.0	43.0	38.8	38.4
57.5°	416.3	384.0	313.4	236.6	164.4	108.7	73.0	53.4	43.8	39.6	39.2
60°	422.4	390.2	317.6	238.9	164.8	108.3	73.0	53.8	44.5	40.7	40.3
62.5°	427.4	394.4	321.1	240.4	164.8	107.5	73.0	54.1	45.3	41.9	41.5
65°	430.9	397.5	323.4	241.2	164.4	107.1	73.0	54.9	46.5	43.0	42.6
67.5°	*432.8*	*399.8*	*324.9*	*241.9*	*164.0*	*107.1*	*73.4*	*56.1*	*47.6*	*44.5*	*44.2*
70°	433.6	400.2	325.3	241.6	163.6	106.4	73.7	56.8	49.2	46.1	45.7
72.5°	433.6	400.6	325.3	241.6	162.8	106.8	74.1	58.0	50.7	47.6	47.2
75°	432.4	399.4	324.9	240.8	162.4	106.4	75.3	59.5	52.2	49.5	49.2
77.5°	430.1	397.9	323.7	239.6	162.1	106.8	76.0	61.1	54.1	51.5	51.5
80°	427.4	395.6	322.2	238.5	161.7	107.5	77.2	63.0	56.1	53.8	53.4
82.5°	423.2	392.1	319.5	237.0	160.9	107.9	78.7	64.9	58.4	55.7	55.7
85°	417.5	387.1	316.1	235.0	160.1	108.7	80.3	66.4	60.7	58.0	58.0
87.5°	411.3	381.7	311.8	232.7	159.8	109.5	82.2	68.7	62.6	60.3	59.9
90°	404.0	375.2	307.6	230.0	159.4	110.6	83.7	71.0	65.3	63.0	62.6
92.5°	396.3	368.7	303.0	228.1	159.0	111.8	86.0	73.7	68.0	65.7	65.3
95°	388.6	361.8	298.4	225.4	159.0	113.3	88.3	76.4	70.7	68.4	68.0
97.5°	379.8	354.1	293.0	223.1	159.0	115.2	91.0	79.1	73.4	71.0	71.0
100°	370.6	346.4	287.6	220.8	159.4	117.1	93.7	82.2	76.4	74.1	74.1
102.5°	361.4	338.0	282.7	218.9	160.1	119.8	97.2	85.6	79.9	77.6	77.2
105°	351.4	329.5	276.9	216.2	160.9	122.1	100.2	88.7	83.0	80.6	80.6
107.5°	341.4	320.7	271.1	214.3	161.7	124.4	103.7	92.2	86.4	83.7	83.7
110°	330.3	311.1	265.0	212.0	162.4	127.1	106.4	95.2	89.1	86.8	86.4

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

Scaled Data Report

REPORT NUMBER: P1045910
CATALOG NUMBER: FFX-CLB-30-750-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	318.8	301.5	258.5	208.9	162.8	129.4	109.5	98.3	92.2	89.5	89.1
115°	306.5	290.7	251.2	205.8	162.8	131.3	111.8	100.6	94.5	91.8	91.4
117.5°	294.2	279.2	243.1	201.6	162.4	132.5	113.7	102.2	96.0	93.3	92.9
120°	281.1	267.7	235.0	197.4	160.9	132.9	114.4	103.3	96.8	94.1	93.7
122.5°	267.7	255.4	225.4	191.6	158.6	132.5	114.4	103.3	96.8	93.7	93.3
125°	253.1	242.3	215.4	184.7	155.2	131.0	113.7	102.5	96.0	92.9	92.2
127.5°	238.9	229.3	205.1	177.8	150.9	128.7	112.1	101.0	94.5	91.4	91.0
130°	225.0	215.4	194.3	170.1	145.9	125.6	109.5	98.7	92.6	89.1	88.7
132.5°	210.5	201.6	183.6	162.1	140.2	121.7	106.8	96.4	89.9	87.2	86.4
135°	195.9	188.9	172.4	153.6	134.4	117.5	103.7	93.7	87.6	84.5	84.5
137.5°	182.8	175.9	161.3	145.2	128.3	112.5	99.9	90.6	84.9	82.2	81.8
140°	169.4	164.0	150.9	136.7	121.7	107.9	96.8	87.9	82.6	79.9	79.5
142.5°	156.7	151.3	140.9	127.9	115.2	102.9	92.9	84.9	79.9	77.6	77.2
145°	144.0	140.2	130.2	119.8	108.7	97.9	88.7	81.8	77.6	75.3	75.3
147.5°	132.9	129.4	120.6	111.8	102.2	93.3	85.3	79.1	75.3	73.4	73.0
150°	122.1	119.1	111.8	104.5	95.6	88.3	81.4	76.4	73.0	71.4	71.0
152.5°	112.1	109.8	103.7	97.5	90.2	83.7	78.3	74.1	71.0	69.5	69.5
155°	103.7	101.8	96.4	91.0	85.3	79.9	75.3	71.8	69.5	68.4	68.0
157.5°	96.4	94.1	89.9	85.6	81.0	76.4	73.0	69.9	68.4	67.2	67.2
160°	89.5	87.6	84.1	81.0	77.2	73.7	70.7	68.7	67.2	66.4	66.4
162.5°	83.7	82.2	79.5	76.8	74.1	71.4	69.1	67.6	66.4	65.7	65.7
165°	78.7	78.0	75.7	73.7	71.4	69.5	68.0	66.8	66.1	65.7	65.7
167.5°	74.9	74.1	72.6	71.0	69.5	68.0	66.8	66.1	65.7	65.3	65.3
170°	71.8	71.0	70.3	69.1	68.0	66.8	66.1	65.7	65.3	65.3	65.3
172.5°	69.5	68.7	68.4	67.6	66.8	66.1	65.7	65.3	65.3	65.3	65.3
175°	67.6	67.2	66.8	66.4	66.1	65.7	65.3	65.3	65.3	65.3	65.3
177.5°	66.4	66.1	66.1	65.7	65.7	65.3	65.3	65.7	65.7	65.7	66.1
180°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

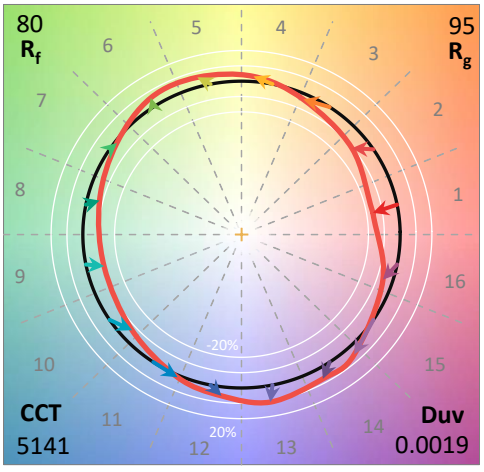
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Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-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):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

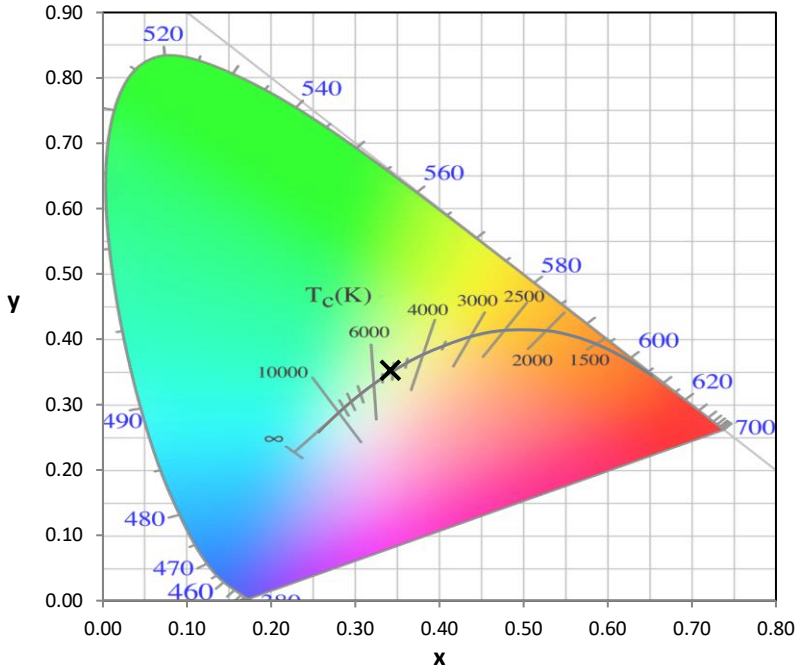
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

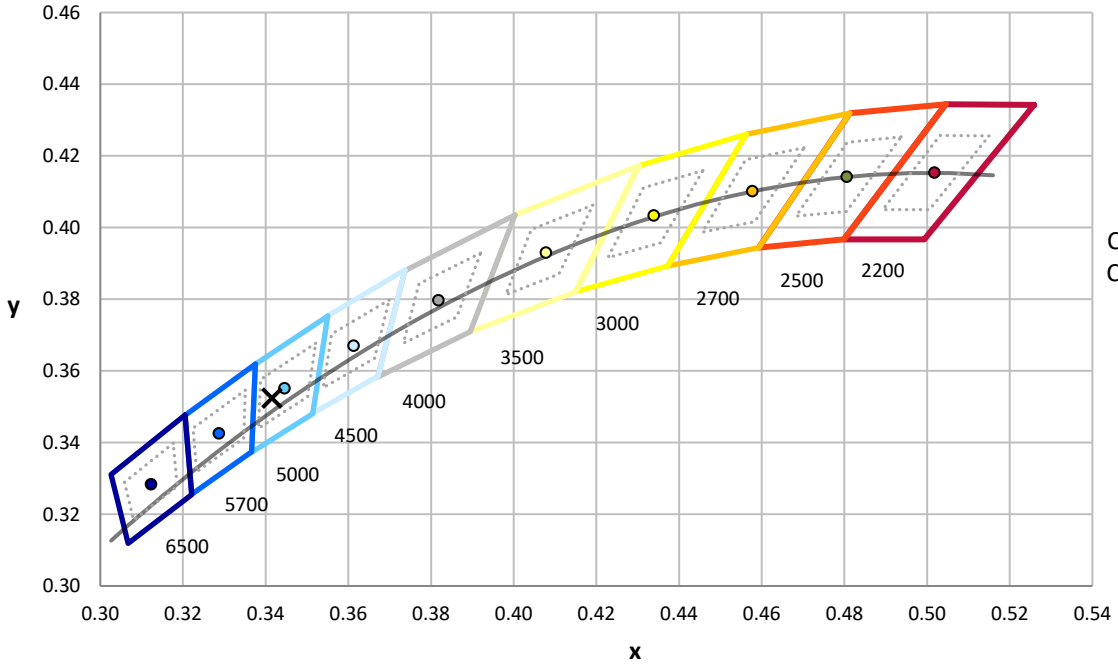
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

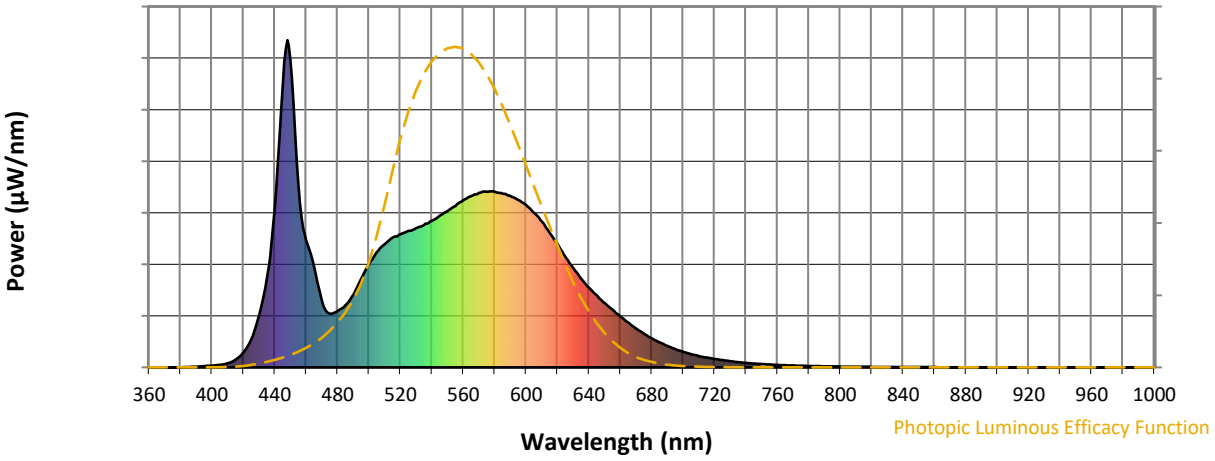


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

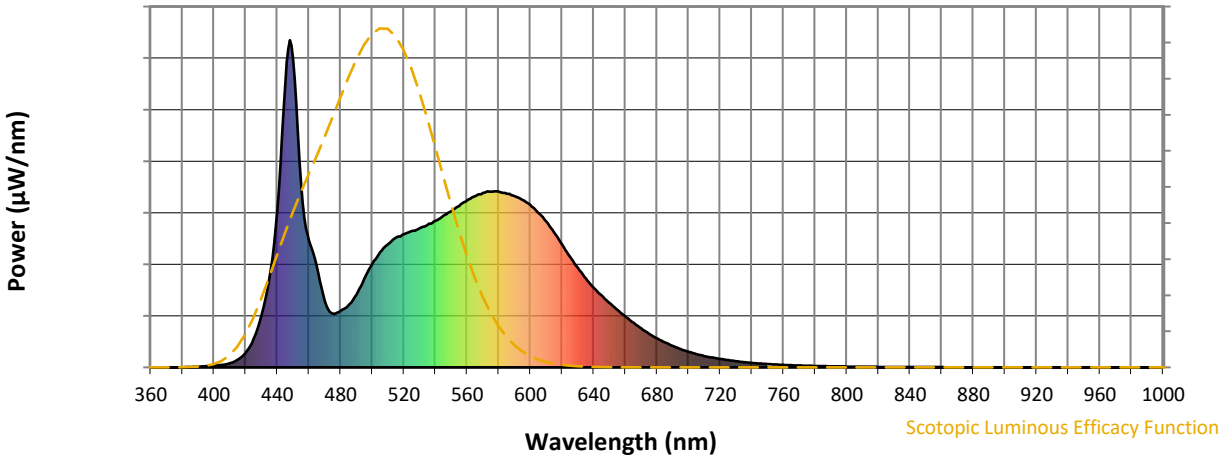


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

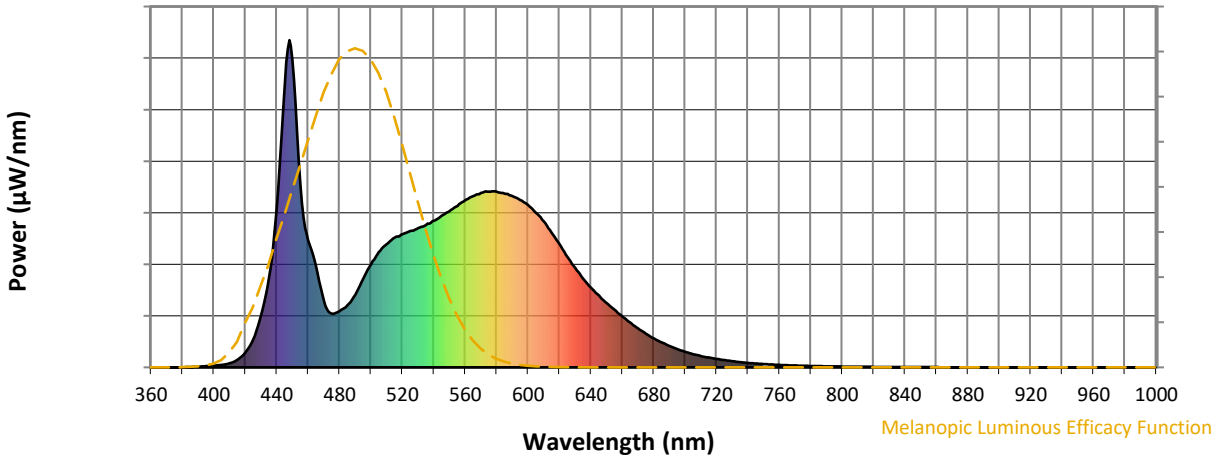


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

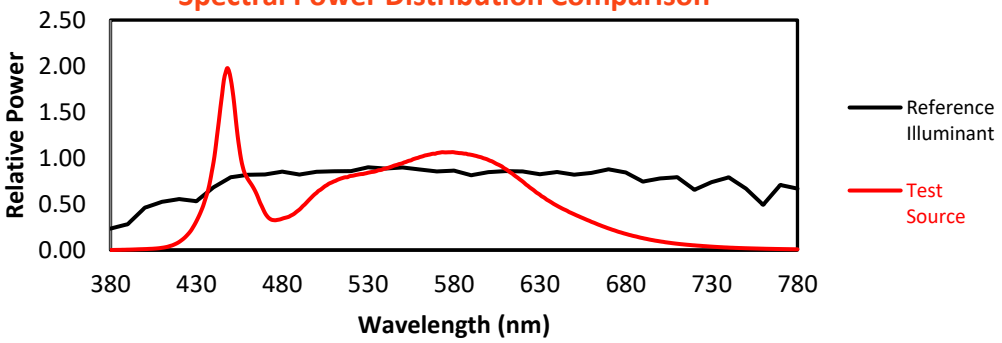
REPORT NUMBER: SP1-2501-332-10

TM-30-18

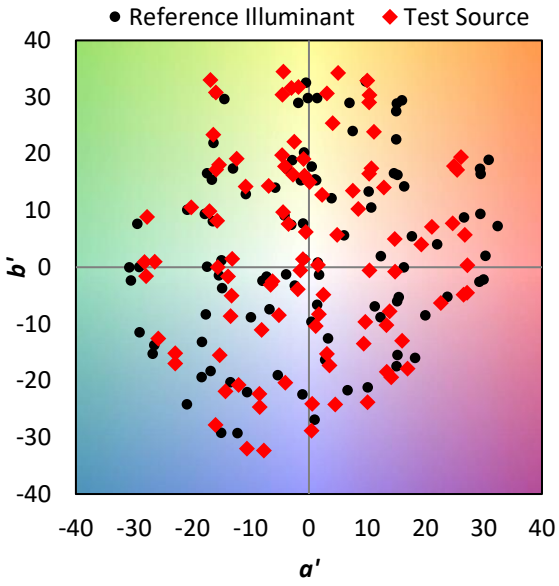
Summary

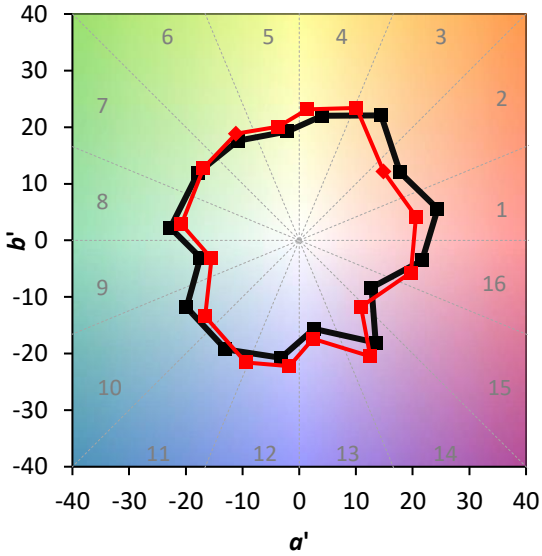
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

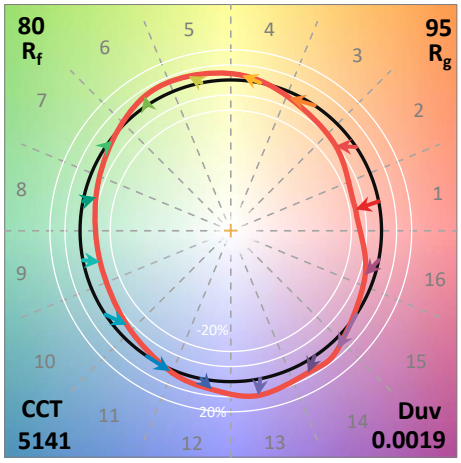
Spectral Power Distribution Comparison

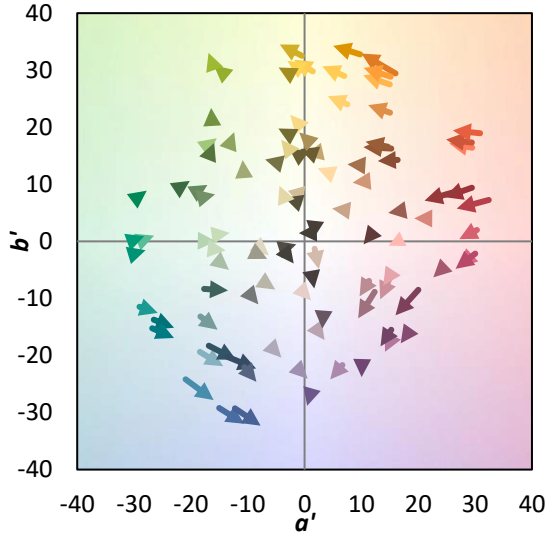


Color Vector Graphics







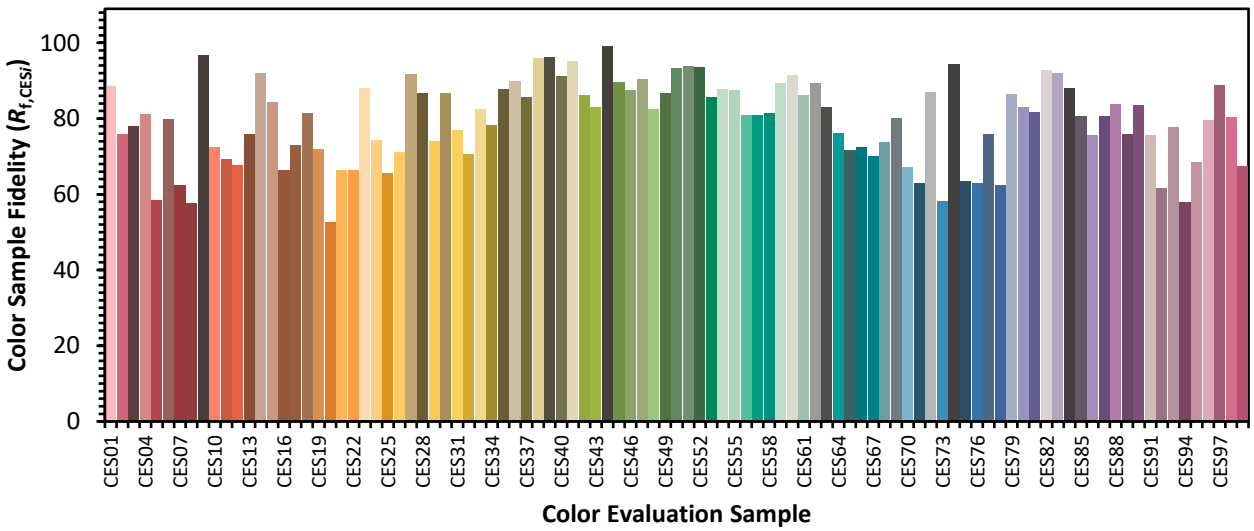


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

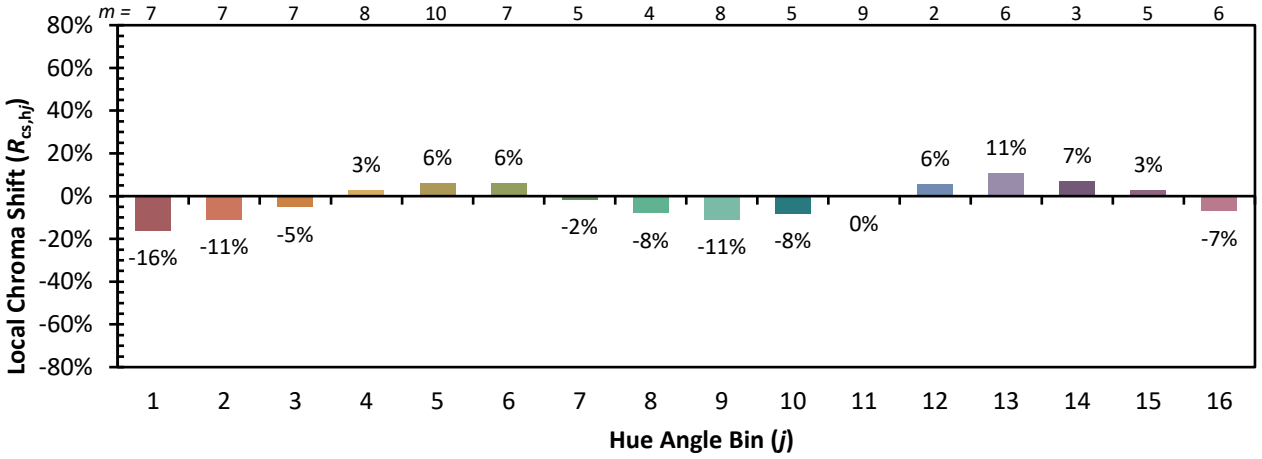
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

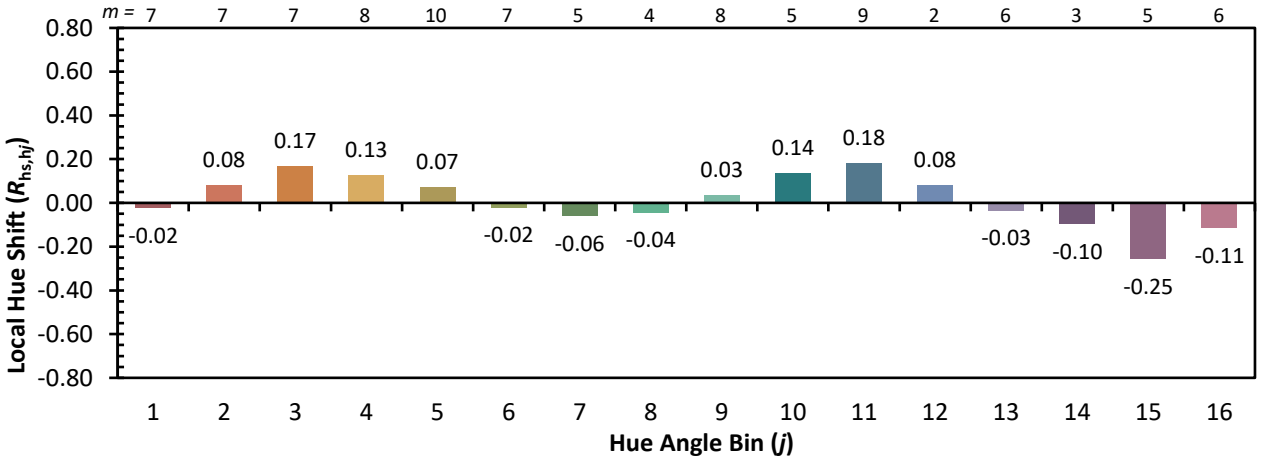


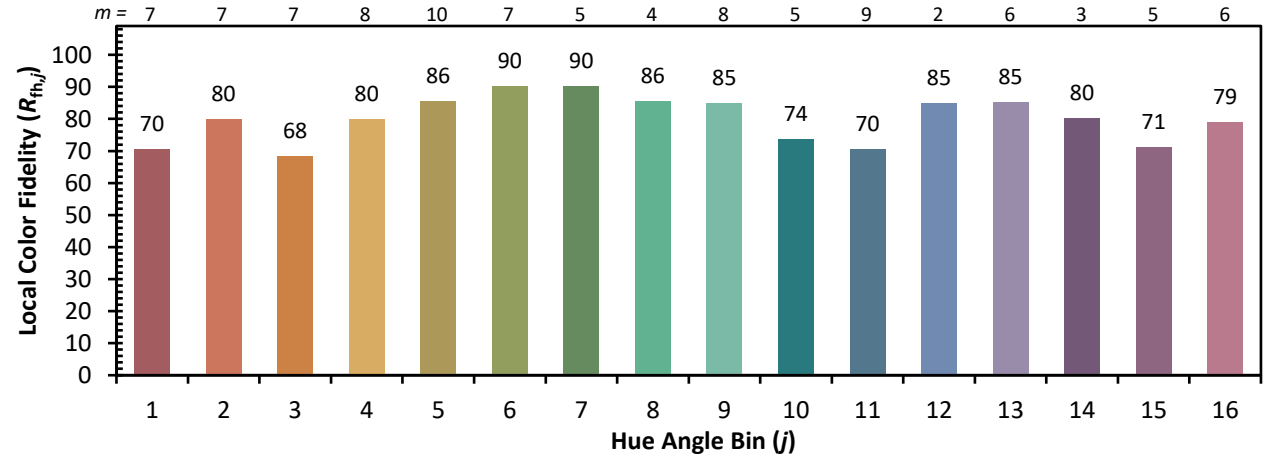
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Color Rendition by Hue-Angle Bin



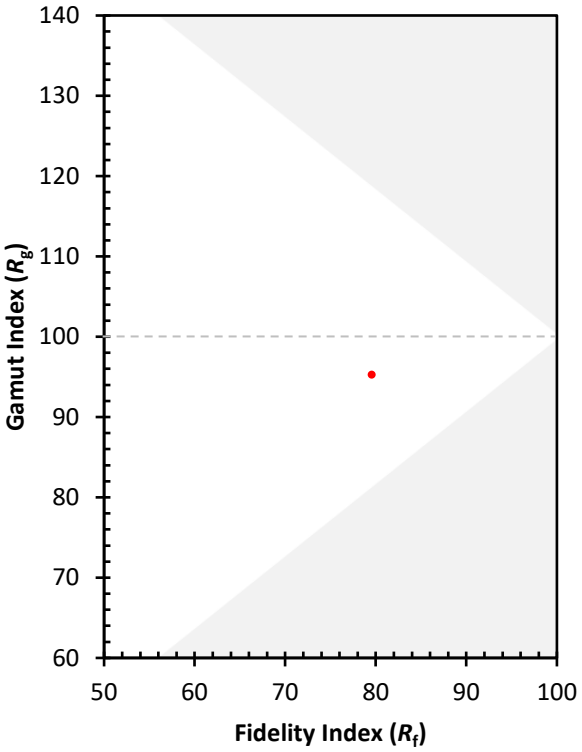


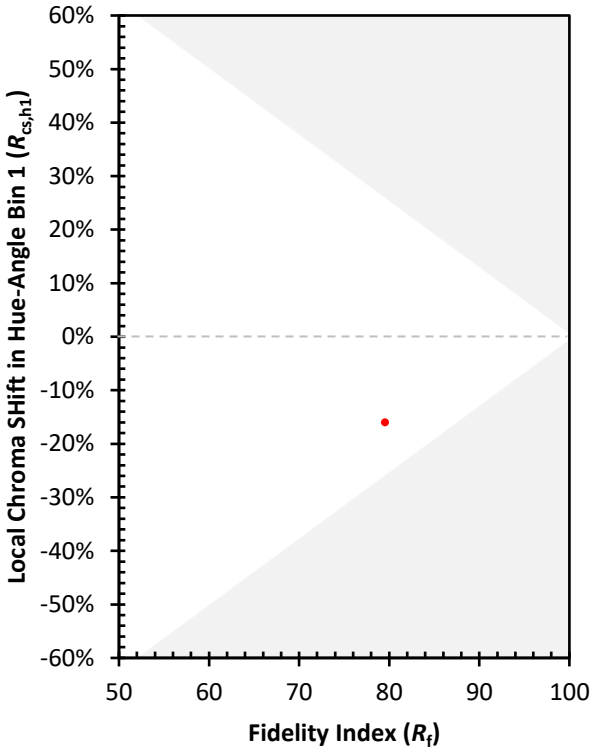


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Measure Comparisons





(END OF REPORT)