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: P1045846

Luminaire Tested: **FFX-CLB-40-730-U-VM8-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:	P1045846
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-730-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4289.4 lumens
Efficiency:	N/A
Efficacy:	108.9 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

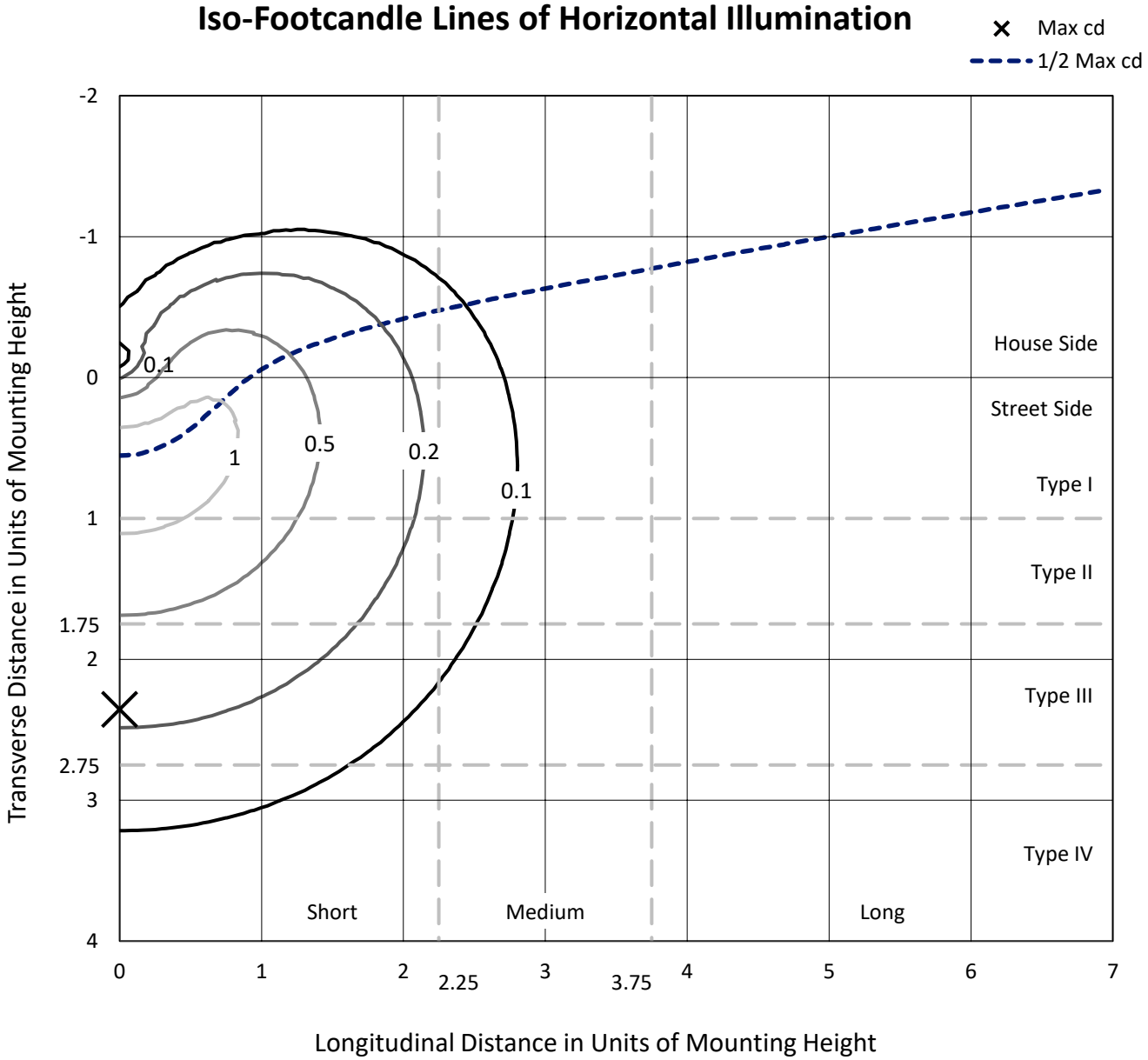


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REPORT NUMBER: P1045846
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Iso-Footcandle Lines of Horizontal Illumination



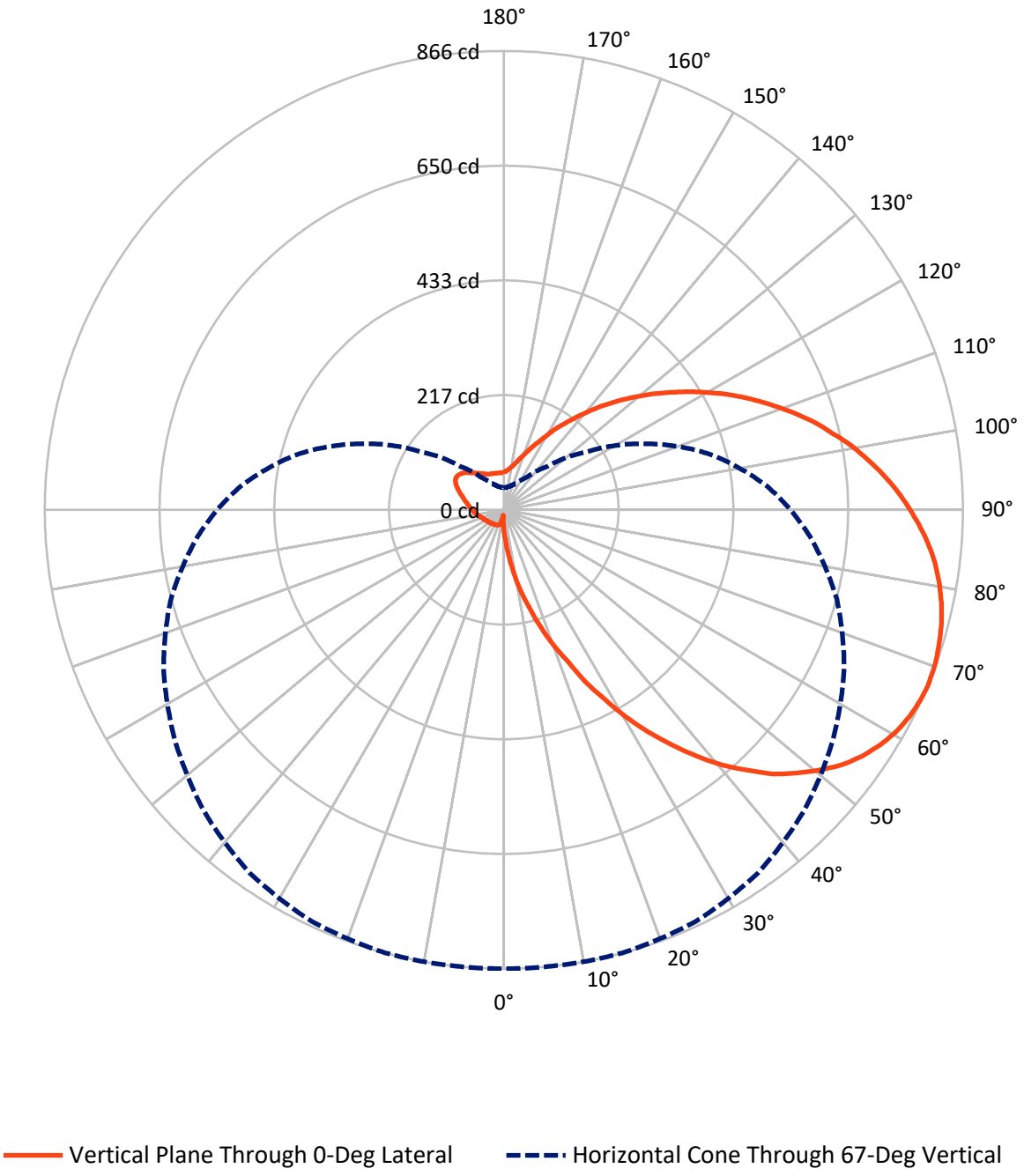
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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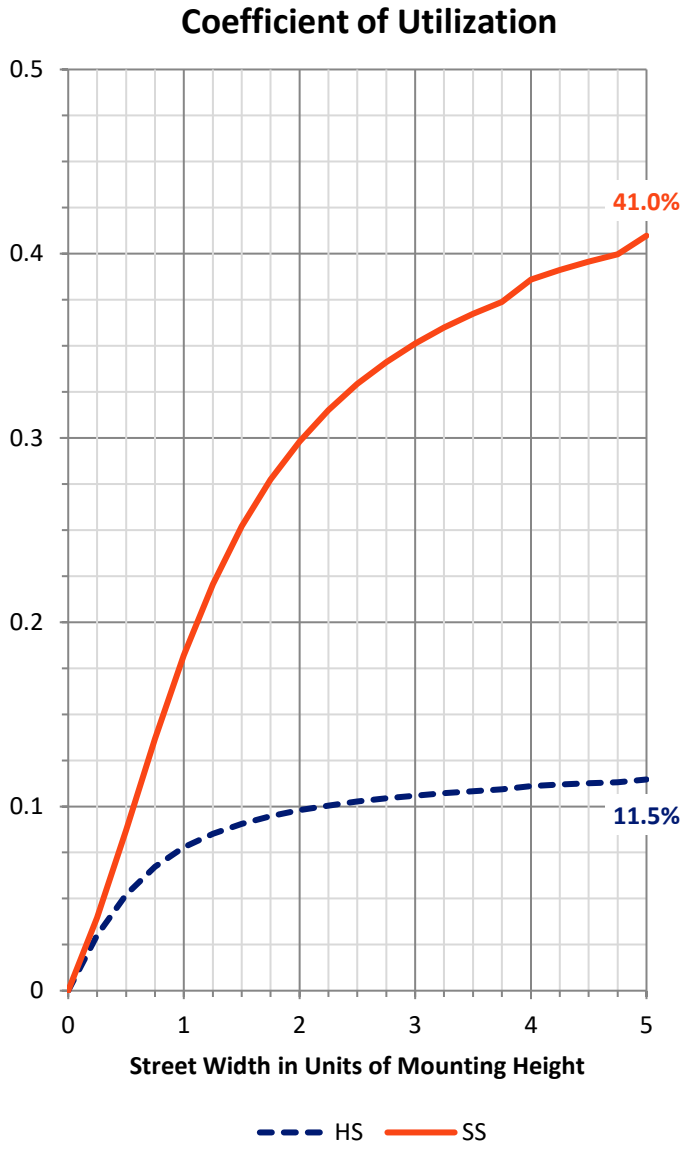
REPORT NUMBER: P1045846
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.2	506.1	1037.2
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2002.9	1249.3	3252.2
	% Fixture	46.7	29.1	75.8
Total	Lumens	2534.0	1755.4	4289.4
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	35.6	0.8
20°-30°	99.5	2.3
30°-40°	199.1	4.6
40°-50°	312.9	7.3
50°-60°	411.5	9.6
60°-70°	475.1	11.1
70°-80°	501.4	11.7
80°-90°	493.1	11.5
90°-100°	452.6	10.6
100°-110°	391.4	9.1
110°-120°	321.3	7.5
120°-130°	245.0	5.7
130°-140°	165.0	3.8
140°-150°	97.8	2.3
150°-160°	51.4	1.2
160°-170°	24.0	0.6
170°-180°	7.0	0.2
0°-90°	2534.0	59.1
0°-180°	4289.4	100.0



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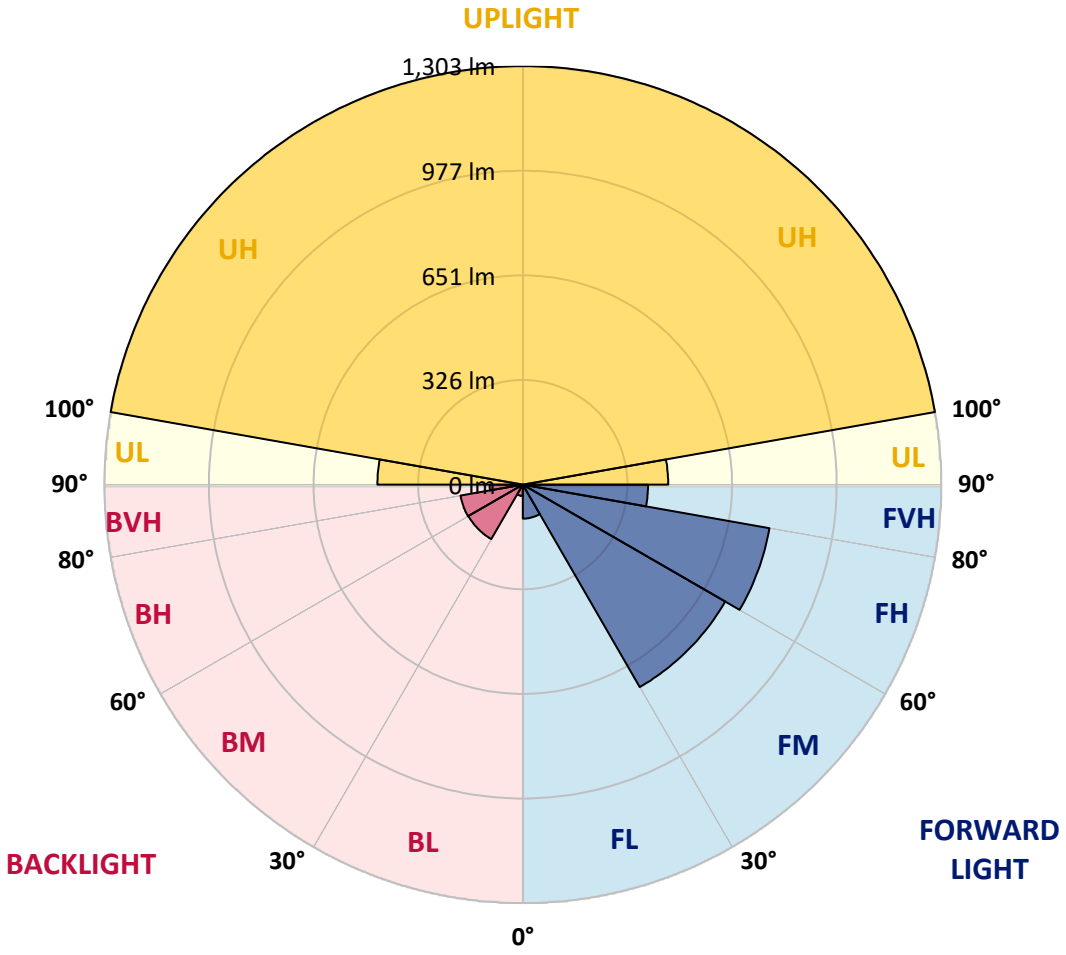
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	105.8	2.5			
FM	(30°-60°)	727.7	17.0			
FH	(60°-80°)	779.6	18.2			G1/1800
FVH	(80°-90°)	389.7	9.1			G3/500
BL	(0°-30°)	35.0	0.8	B0/110		
BM	(30°-60°)	195.9	4.6	B0/220		
BH	(60°-80°)	196.9	4.6	B1/500		G1/500
BVH	(80°-90°)	103.4	2.4			G2/225
UL	(90°-100°)	452.6	10.6		U3/500	
UH	(100°-180°)	1302.8	30.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	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°	*55.4*	56.3	56.3	55.8	55.4	54.4	53.5	51.6	47.9	45.1	42.2
5°	*80.3*	80.3	80.7	80.3	78.4	76.5	72.3	69.0	62.9	58.2	53.0
7.5°	*108.9*	110.3	109.8	108.4	105.1	100.9	95.7	89.6	83.5	76.5	68.5
10°	*140.8*	140.3	140.3	138.4	134.7	129.1	123.4	116.4	107.5	98.6	88.2
12.5°	*170.8*	172.2	171.3	168.9	164.3	160.0	153.0	145.0	134.7	125.3	111.2
15°	*203.2*	204.1	204.1	202.7	198.5	192.4	184.4	176.9	163.3	150.2	136.6
17.5°	*240.3*	238.9	237.0	237.0	231.8	226.7	218.7	208.4	193.4	178.8	160.5
20°	*277.4*	276.9	274.5	273.1	269.8	262.3	252.0	240.3	225.3	208.8	187.3
22.5°	*312.1*	316.8	316.3	314.0	309.7	302.2	291.0	276.9	261.4	240.8	215.9
25°	*361.4*	358.5	359.0	356.7	352.9	344.0	332.7	316.3	297.5	274.5	246.4
27.5°	*404.1*	403.1	403.1	401.7	396.6	387.2	374.0	358.5	337.0	309.7	278.3
30°	*453.3*	451.0	450.1	448.7	443.5	433.2	419.6	400.3	376.8	349.2	312.1
32.5°	*499.8*	497.9	494.6	494.2	490.4	479.6	464.1	444.4	417.7	385.3	344.5
35°	*544.4*	545.3	543.9	541.6	536.4	526.1	511.1	487.1	460.9	423.3	379.2
37.5°	*589.4*	589.0	589.9	588.0	580.1	570.2	552.4	527.0	497.0	456.2	409.7
40°	*633.6*	631.2	630.7	628.9	623.2	613.4	593.2	567.4	533.6	491.4	438.8
42.5°	*671.6*	672.5	671.6	669.7	662.2	650.9	629.8	601.2	565.5	520.0	466.0
45°	*711.5*	710.1	709.6	709.6	699.7	688.0	665.0	635.4	595.5	546.7	489.5
47.5°	*742.9*	744.8	743.8	741.5	734.9	720.4	696.0	663.6	621.8	571.6	510.6
50°	*772.5*	774.8	775.3	772.9	765.0	749.0	723.7	687.5	645.3	592.3	528.9
52.5°	*799.7*	799.2	800.6	799.2	791.7	775.3	746.2	709.6	664.1	609.6	543.0
55°	*820.8*	820.8	821.7	819.9	812.8	794.5	764.5	725.5	679.1	623.2	555.2
57.5°	*837.7*	838.6	838.2	837.7	829.7	810.5	778.6	738.2	691.3	633.1	564.1
60°	*850.8*	851.3	851.3	850.4	842.4	822.2	789.8	748.1	699.3	641.5	571.1
62.5°	*859.3*	859.8	859.8	858.8	850.8	830.2	797.3	754.2	704.9	646.7	575.8
65°	*864.5*	864.9	864.9	864.0	856.0	834.9	801.1	757.5	707.7	649.5	578.6
67°	*866.3*	*866.3*	*866.3*	*865.9*	*857.4*	*836.8*	*802.0*	*757.9*	*708.6*	*650.5*	*580.1*
67.5°	*865.9*	865.9	866.3	865.4	857.4	836.3	801.6	757.9	708.2	650.5	580.1
70°	*864.5*	864.5	864.5	863.5	855.5	834.4	799.7	755.6	706.8	649.5	579.6
72.5°	*859.3*	859.8	859.8	858.8	850.8	830.2	795.5	751.3	703.0	646.7	578.2
75°	*853.2*	853.2	853.2	852.2	844.3	823.6	789.4	745.7	698.3	642.9	575.4
77.5°	*844.3*	844.3	844.3	843.3	835.4	815.2	781.4	738.7	692.2	637.8	572.1
80°	*833.0*	833.5	833.0	832.1	824.1	803.9	771.5	729.8	684.2	631.7	567.4
82.5°	*819.9*	820.3	819.9	818.0	810.5	791.2	758.9	718.0	674.9	623.7	561.8
85°	*803.0*	802.5	803.0	800.2	793.6	774.3	744.8	704.9	663.1	614.3	553.8
87.5°	*783.7*	784.2	783.3	781.9	773.9	755.1	726.9	689.9	649.5	603.1	544.4
90°	*762.6*	762.6	762.1	760.3	751.8	734.9	708.2	672.5	635.0	590.4	534.5
92.5°	*741.0*	740.6	739.1	738.2	730.7	713.3	687.5	655.6	620.4	577.7	524.2
95°	*717.1*	717.1	716.2	714.3	705.8	691.7	666.9	636.8	603.5	564.1	513.4
97.5°	*691.7*	691.3	690.8	688.0	680.5	666.4	646.2	617.1	586.6	549.6	501.2
100°	*666.9*	665.5	664.5	661.7	655.1	641.5	622.3	597.0	567.4	533.6	488.1
102.5°	*637.8*	637.8	637.3	634.5	626.0	614.8	597.4	574.9	549.6	517.2	474.0
105°	*612.0*	609.6	608.7	605.9	599.3	587.1	572.5	552.8	529.4	499.3	459.9
107.5°	*582.9*	581.0	580.5	576.3	571.1	559.9	547.7	529.4	509.7	482.9	445.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*553.3*	552.4	551.9	547.7	541.1	533.6	520.9	506.4	489.0	464.6	431.8
112.5°	*524.2*	523.3	523.3	520.0	513.9	504.5	495.6	482.9	467.4	446.3	415.8
115°	*495.6*	494.2	493.7	489.9	483.8	476.8	467.9	459.0	445.8	428.0	400.3
117.5°	*467.0*	465.1	465.5	462.3	457.6	450.5	442.1	436.0	424.7	408.3	384.8
120°	*437.4*	437.9	437.9	433.6	429.4	423.8	416.7	410.6	403.1	388.6	367.0
122.5°	*409.2*	410.2	410.2	407.4	402.2	397.0	392.3	386.7	380.1	368.9	349.6
125°	*381.1*	382.9	382.0	379.7	375.4	369.8	366.5	361.8	356.7	347.3	330.4
127.5°	*355.3*	355.3	352.9	353.4	349.2	344.5	341.7	338.4	333.2	324.3	310.7
130°	*328.5*	329.0	329.4	326.6	322.9	319.1	316.3	314.9	310.7	303.2	289.6
132.5°	*304.1*	304.1	303.2	301.3	298.0	295.2	295.2	291.0	287.7	280.6	268.9
135°	*280.2*	279.7	279.7	277.8	275.5	274.1	270.8	268.9	265.6	259.1	250.1
137.5°	*256.7*	257.6	256.7	255.3	253.0	251.1	248.7	248.3	243.6	238.9	229.0
140°	*234.2*	235.6	234.2	233.7	231.8	229.5	228.1	226.2	224.8	218.7	210.2
142.5°	*213.1*	214.0	213.1	212.6	211.2	209.3	208.4	207.0	203.7	199.9	192.9
145°	*194.8*	194.3	194.3	193.8	191.9	190.5	189.1	188.2	186.3	182.6	174.6
147.5°	*176.9*	175.5	176.5	175.5	174.1	173.2	172.7	170.8	168.9	165.2	159.6
150°	*158.6*	159.6	159.1	158.6	157.2	157.2	155.8	154.4	153.0	148.8	145.0
152.5°	*143.6*	143.6	144.1	143.1	142.7	141.3	140.3	139.9	138.0	135.2	130.9
155°	*130.9*	130.5	130.5	130.5	129.5	128.1	127.6	126.7	125.8	122.5	118.7
157.5°	*118.7*	118.7	118.7	118.3	118.3	116.9	116.4	115.0	113.6	111.7	108.4
160°	*108.4*	108.4	107.9	107.9	107.5	107.0	106.1	104.7	103.7	102.3	99.5
162.5°	*100.0*	99.5	99.5	99.0	98.6	97.6	97.1	96.7	95.3	93.9	91.5
165°	*92.0*	92.0	92.0	91.5	91.0	90.6	90.1	89.2	88.2	87.3	85.9
167.5°	*85.9*	85.9	85.9	85.4	85.4	84.9	84.5	83.5	82.6	81.7	80.7
170°	*81.2*	81.2	81.2	80.7	80.3	79.8	79.3	78.8	78.4	77.4	77.0
172.5°	*77.4*	77.4	77.4	77.4	76.5	76.0	75.6	75.6	75.1	74.6	74.1
175°	*74.1*	74.1	74.1	74.1	73.7	73.2	72.7	72.7	72.3	71.8	71.3
177.5°	*72.3*	72.3	72.3	71.8	71.8	71.3	70.9	70.9	70.4	70.4	69.9
180°	*69.9*	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9

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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°	40.4	38.5	35.2	32.4	30.0	27.7	26.3	24.9	24.9	25.3	24.4
5°	48.8	45.5	39.4	32.9	27.2	22.5	18.8	15.5	12.7	11.3	11.3
7.5°	64.8	61.0	52.6	44.1	36.1	28.6	22.5	17.4	13.1	10.8	10.3
10°	83.1	78.8	67.1	56.8	46.9	37.5	29.6	22.5	17.8	15.5	15.0
12.5°	104.2	98.6	84.5	71.3	58.7	46.9	37.1	29.1	24.4	22.1	21.6
15°	128.6	119.7	103.7	87.3	70.9	56.3	44.6	35.7	30.5	27.2	27.2
17.5°	150.6	141.3	122.0	100.9	82.1	65.2	51.2	40.4	33.3	30.0	29.6
20°	176.0	163.3	140.3	115.9	92.9	72.3	55.4	43.2	34.7	30.5	30.5
22.5°	201.8	188.7	160.5	130.9	103.2	78.8	59.6	45.1	35.7	31.0	30.5
25°	232.3	214.5	180.7	147.4	115.0	85.9	63.4	46.9	36.6	31.9	31.0
27.5°	261.9	243.6	204.1	163.8	125.8	92.9	66.6	48.8	37.5	32.4	31.9
30°	292.8	270.3	225.7	180.7	137.0	99.0	69.9	50.2	38.0	32.9	31.9
32.5°	323.8	298.9	249.7	197.1	147.8	104.7	72.7	51.2	39.0	33.3	32.4
35°	355.3	328.5	272.7	213.5	157.7	109.8	74.6	52.1	39.4	33.3	32.9
37.5°	382.5	354.3	294.3	228.5	166.1	114.0	76.5	53.0	39.4	33.8	33.3
40°	409.7	379.2	313.0	241.2	173.6	117.3	77.9	53.5	39.9	34.3	33.8
42.5°	434.1	400.3	329.4	252.5	179.7	119.7	78.4	53.5	40.4	34.7	34.3
45°	456.2	421.9	344.9	263.3	184.9	121.1	78.8	54.0	40.8	35.2	34.7
47.5°	476.3	439.7	359.0	272.2	189.1	122.5	78.8	54.0	41.3	36.1	35.2
50°	493.2	454.8	370.7	279.7	191.9	123.0	78.4	54.0	41.8	36.6	36.1
52.5°	506.4	467.4	380.6	284.9	193.8	122.5	77.9	54.0	42.2	37.1	36.6
55°	517.6	477.7	387.6	289.1	194.3	121.5	77.4	54.0	42.7	38.0	37.5
57.5°	526.1	485.3	393.7	292.4	194.8	120.6	76.5	54.0	43.2	38.5	38.0
60°	532.7	491.8	398.4	294.3	194.3	119.2	76.0	54.0	43.6	39.4	39.0
62.5°	537.3	495.6	401.3	294.7	192.9	117.8	75.1	54.0	44.1	40.4	39.9
65°	540.2	498.4	403.6	295.2	191.5	116.4	74.6	54.4	45.1	41.8	41.3
67°	*541.1*	*499.8*	*404.1*	*295.2*	*190.5*	*115.4*	*74.6*	*54.9*	*46.0*	*42.2*	*41.8*
67.5°	541.6	499.8	404.1	294.7	190.1	115.4	74.6	54.9	46.0	42.7	42.2
70°	541.1	499.8	404.1	293.8	188.7	114.5	74.1	55.8	47.4	44.1	43.6
72.5°	540.2	498.9	403.1	292.4	186.8	113.6	74.6	56.8	48.8	45.5	45.1
75°	537.8	497.0	401.3	290.5	185.4	112.6	75.1	57.7	50.2	47.4	46.9
77.5°	535.5	494.6	399.8	288.6	184.0	112.6	75.6	59.1	52.1	49.3	48.8
80°	531.2	491.4	397.0	286.7	182.6	112.2	76.5	61.0	54.0	51.2	50.7
82.5°	526.1	486.7	393.3	283.9	181.1	112.2	77.9	62.4	55.8	53.0	52.6
85°	519.0	480.6	388.6	280.2	179.7	112.6	78.8	64.3	57.7	55.4	54.9
87.5°	511.1	473.1	382.9	276.9	178.3	112.6	80.3	66.2	59.6	57.3	57.3
90°	501.7	465.1	376.4	273.1	176.9	113.6	82.1	68.0	61.9	59.6	59.6
92.5°	493.2	456.6	371.2	269.4	176.0	114.5	84.0	70.4	64.3	61.9	61.9
95°	482.0	447.7	363.7	266.1	175.5	115.4	85.9	72.7	67.1	64.8	64.3
97.5°	471.2	437.9	357.1	262.3	175.0	117.3	88.2	75.6	69.5	67.1	67.1
100°	459.4	428.0	349.6	259.1	175.0	119.7	91.5	78.4	72.7	70.4	69.9
102.5°	448.2	417.2	342.1	255.8	176.0	122.0	94.8	81.7	76.0	73.7	73.2
105°	435.5	405.9	335.5	253.0	176.9	125.3	98.6	85.9	79.8	77.4	77.0
107.5°	422.8	395.6	328.0	250.6	178.8	129.5	103.2	90.1	84.0	81.2	80.7

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

Scaled Data Report

REPORT NUMBER: P1045846
CATALOG NUMBER: FFX-CLB-40-730-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	409.2	384.4	321.5	248.7	181.6	134.2	108.4	95.7	88.7	85.9	85.4
112.5°	396.6	373.1	314.4	247.3	184.4	139.9	114.5	100.9	94.3	90.6	90.1
115°	382.5	361.4	307.9	245.9	187.7	145.5	121.1	106.5	99.5	95.7	95.7
117.5°	368.9	349.2	300.4	244.5	191.0	151.6	127.2	112.6	104.7	100.9	100.4
120°	352.9	336.0	292.4	241.7	192.9	156.3	132.3	117.8	108.9	105.1	104.7
122.5°	337.0	321.5	282.0	237.5	193.4	159.1	136.1	122.0	112.6	108.4	107.9
125°	318.7	305.5	271.3	230.9	191.9	160.5	138.4	123.4	114.0	109.3	108.9
127.5°	300.8	288.2	258.6	222.9	188.2	159.1	138.0	123.4	114.0	108.9	108.4
130°	281.6	270.3	243.6	213.1	182.1	155.8	136.1	121.5	112.2	107.0	106.5
132.5°	261.9	252.5	229.0	202.3	174.6	150.6	131.9	118.3	108.9	104.2	103.7
135°	242.6	234.2	214.0	190.1	166.6	144.5	127.2	114.0	104.7	100.4	100.4
137.5°	224.3	216.3	198.5	178.3	157.2	137.5	121.5	108.9	100.9	96.7	95.7
140°	205.6	199.0	183.5	165.7	147.4	130.0	115.4	103.7	96.2	92.5	92.0
142.5°	188.2	182.6	169.4	154.9	138.0	123.0	109.3	99.5	92.5	88.7	88.2
145°	171.8	166.6	155.3	142.2	128.6	115.4	103.2	94.3	88.2	85.4	84.9
147.5°	155.3	152.1	142.7	131.9	119.2	107.5	97.6	90.1	84.5	82.1	81.7
150°	141.7	137.5	130.5	120.6	110.8	100.9	92.5	85.9	81.7	79.3	79.3
152.5°	128.1	125.8	118.7	111.2	102.8	94.8	87.3	82.1	78.8	77.0	77.0
155°	117.8	114.5	108.4	102.3	95.3	88.7	83.5	79.3	76.5	75.1	74.6
157.5°	107.0	105.1	100.4	94.8	89.6	84.5	80.3	77.0	74.6	73.7	73.2
160°	98.1	96.7	92.9	88.7	84.5	80.7	77.4	75.1	73.2	72.3	72.3
162.5°	90.6	89.6	86.4	83.5	80.3	77.4	75.1	73.2	72.3	71.8	71.8
165°	84.9	84.0	81.7	79.3	77.4	75.1	73.7	72.3	71.3	71.3	71.3
167.5°	80.3	79.3	77.9	76.5	75.1	73.2	72.3	71.3	71.3	70.9	70.9
170°	76.5	76.0	74.6	73.7	72.7	71.8	71.3	70.9	70.4	70.4	70.4
172.5°	73.7	73.2	72.3	71.8	70.9	70.4	70.4	70.4	70.4	70.4	70.4
175°	71.3	70.9	70.9	70.4	69.9	69.9	69.5	69.9	69.9	69.9	69.9
177.5°	69.9	69.9	69.5	69.5	69.5	69.5	69.5	69.9	69.9	70.4	70.4
180°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9

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

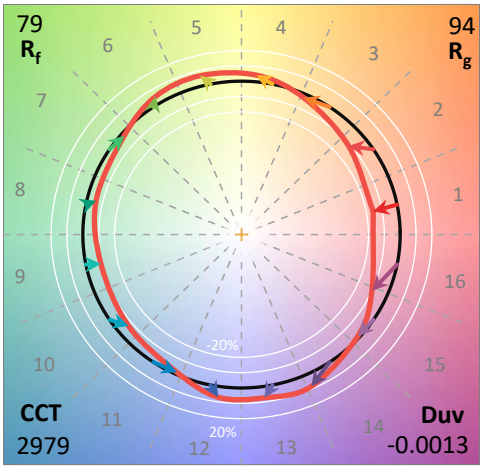
Test Information

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

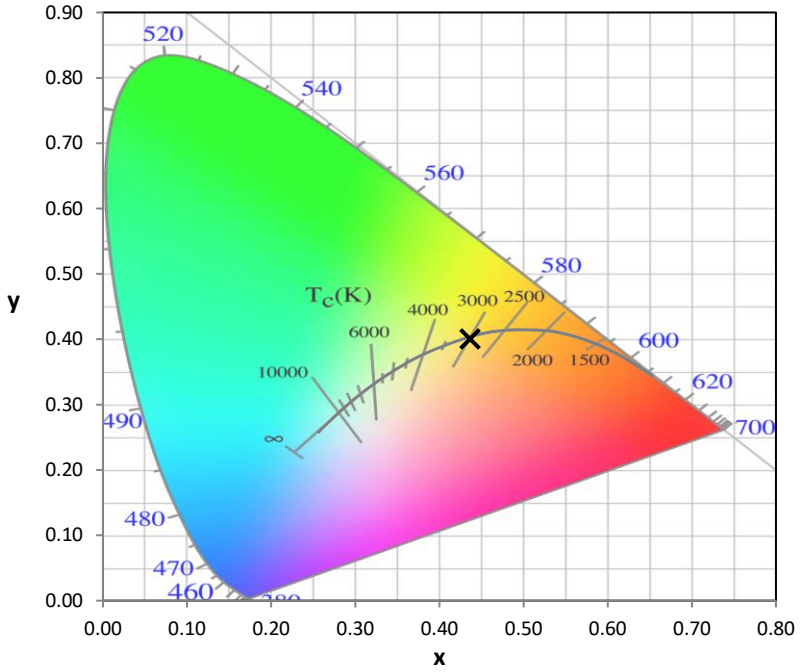
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

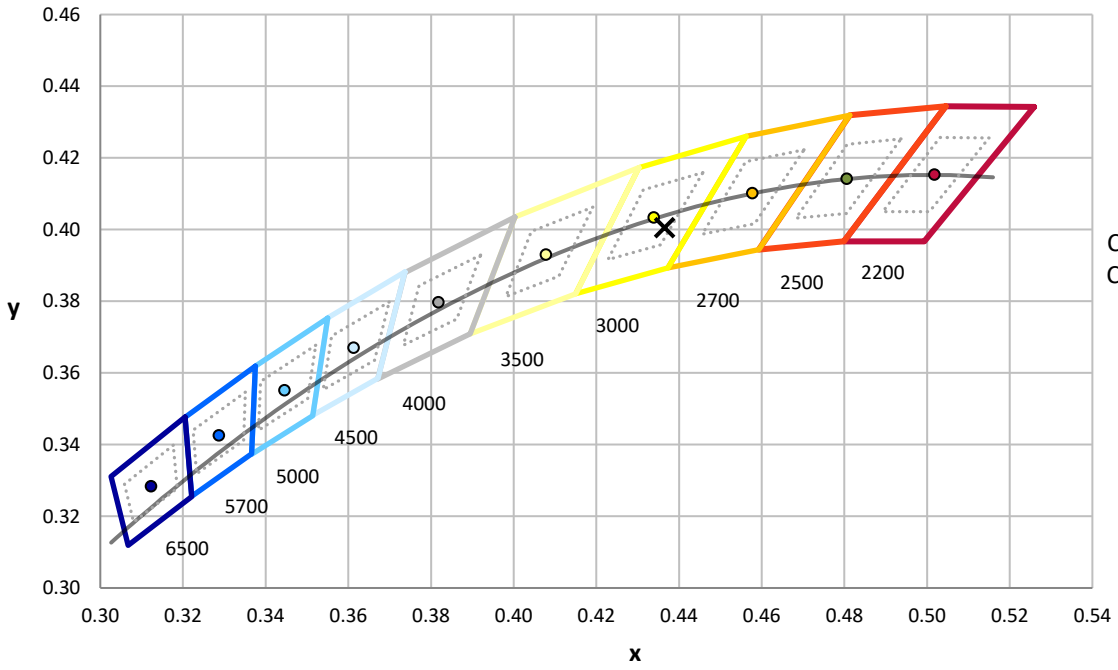
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

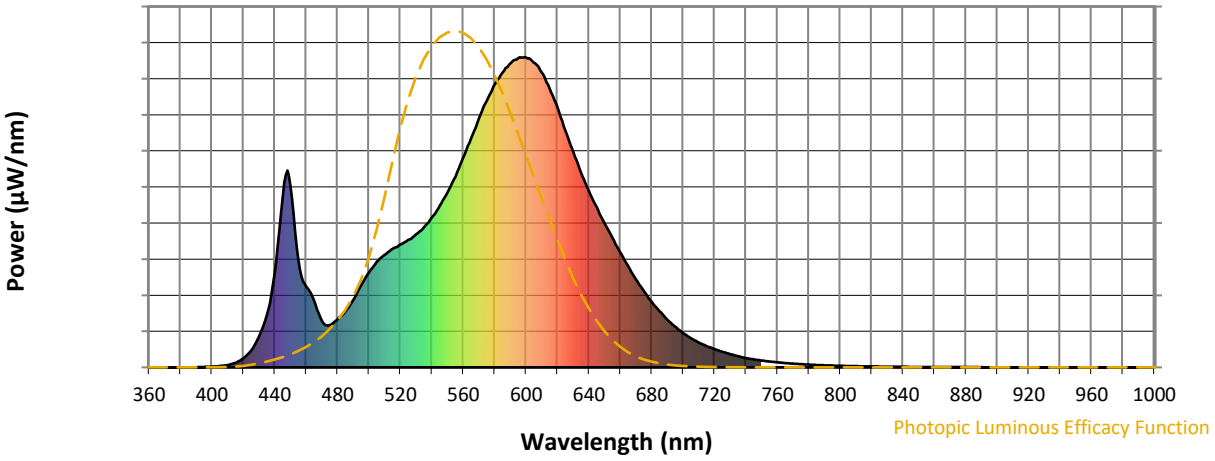


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

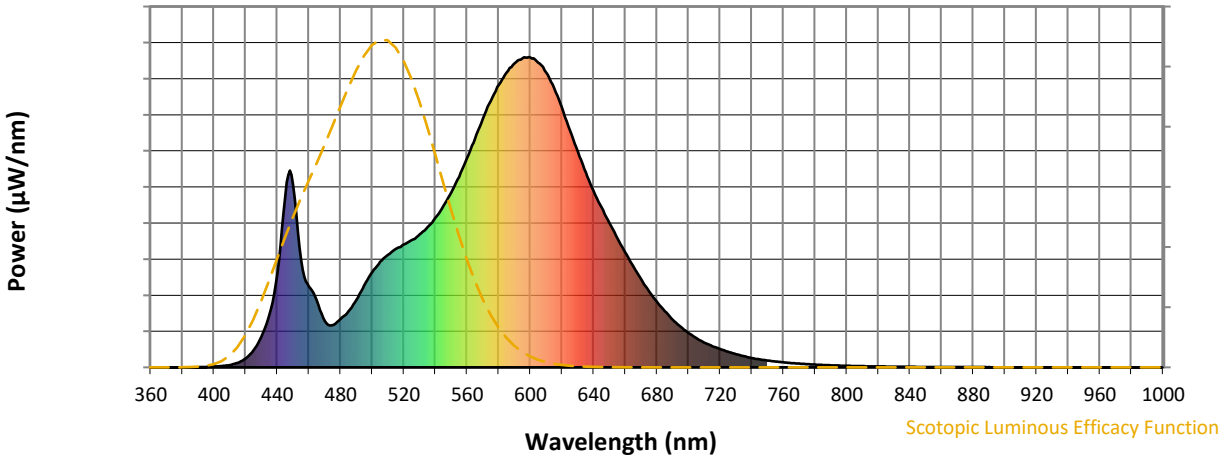


Photopic Lumens: NR

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

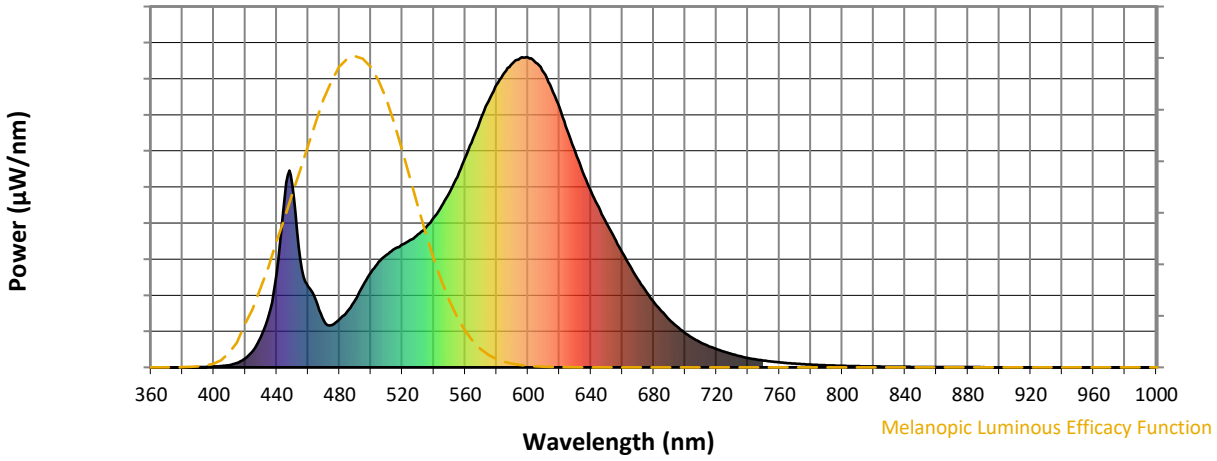


Scotopic Lumens: NR **S/P: 1.29**

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			

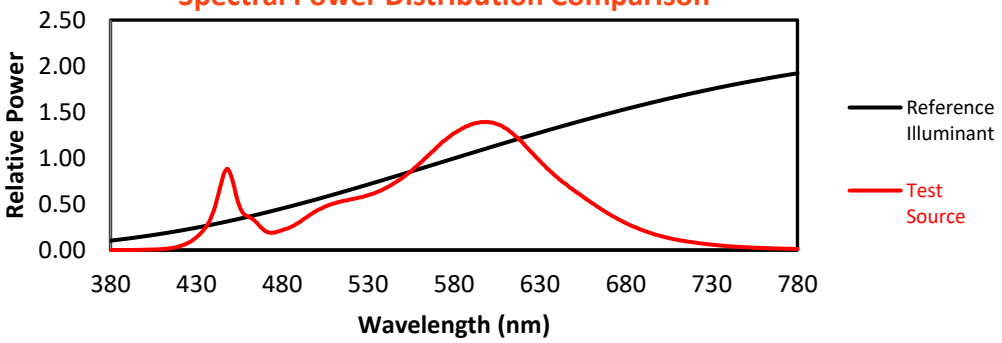
REPORT NUMBER: SP1-2501-332-9

TM-30-18

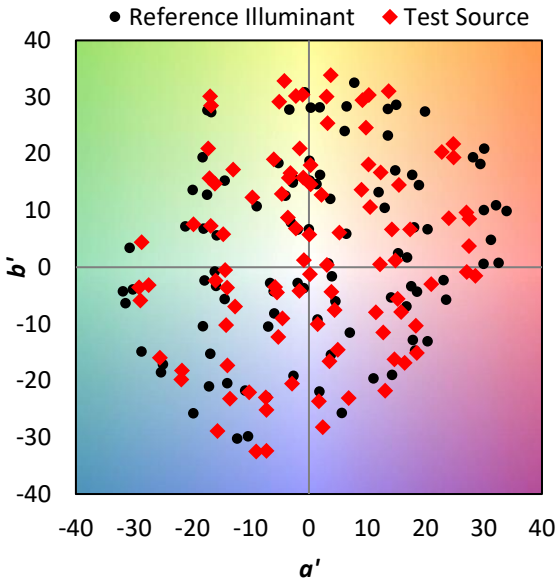
Summary

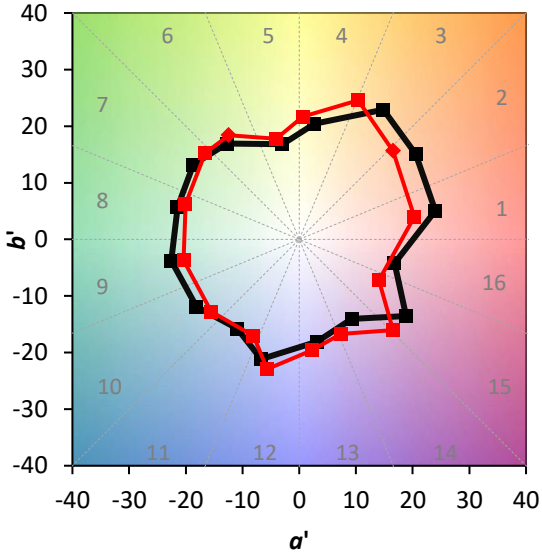
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

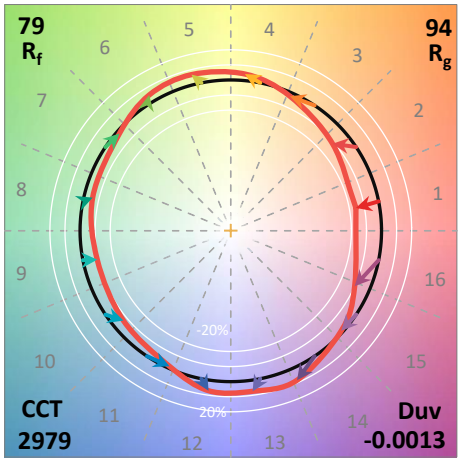
Spectral Power Distribution Comparison

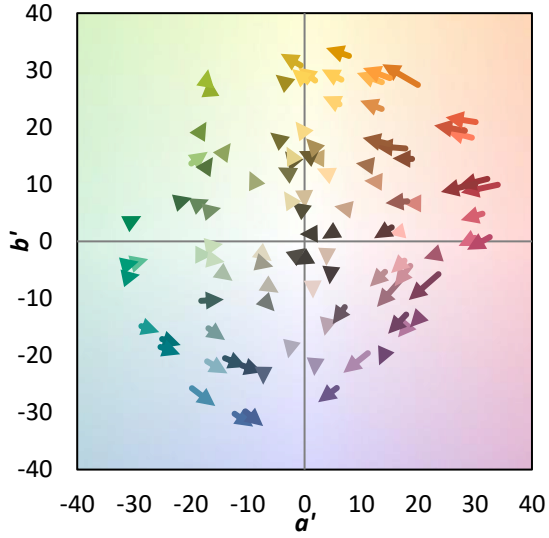


Color Vector Graphics







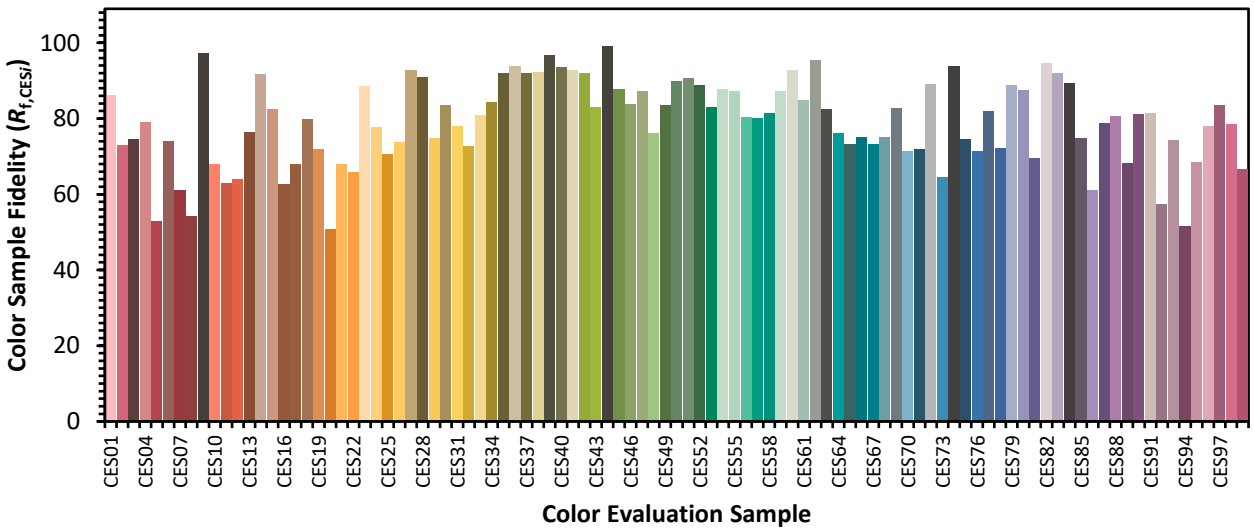


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

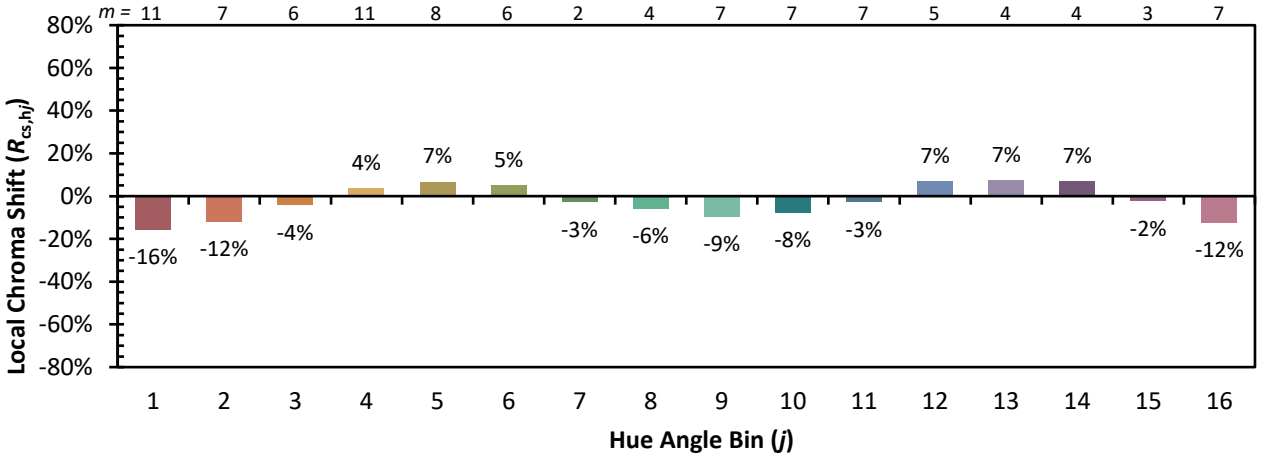
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

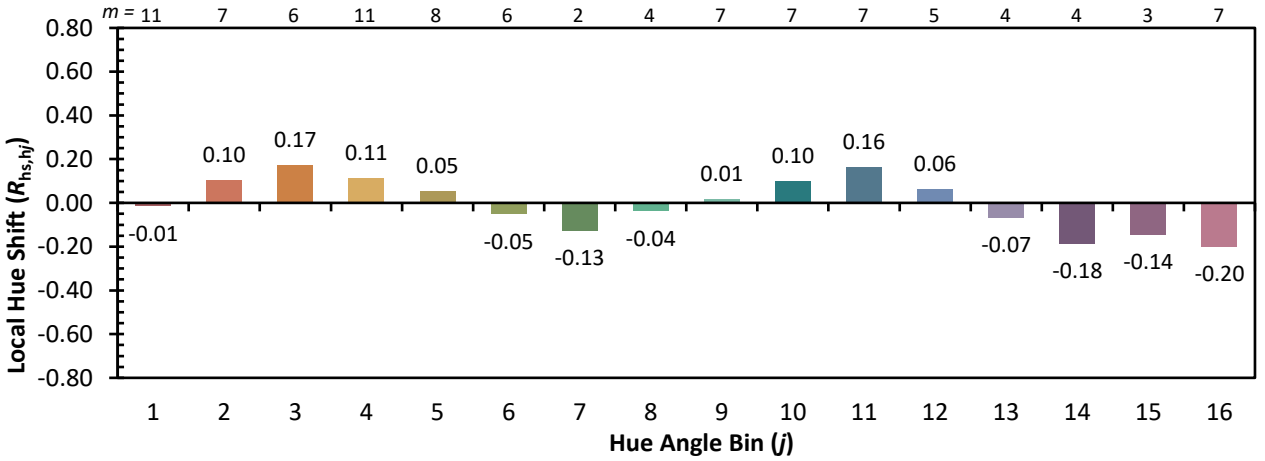


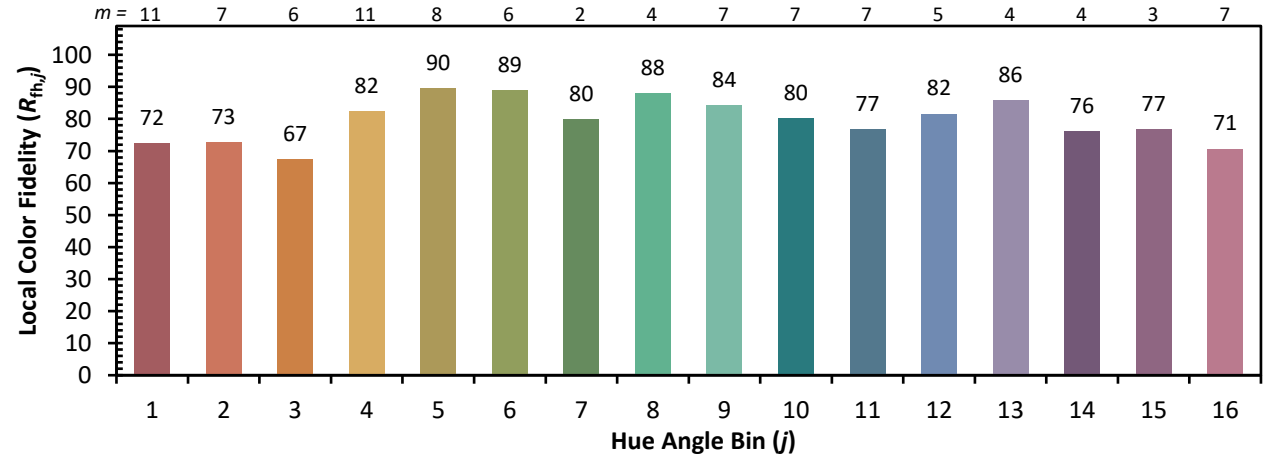
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Color Rendition by Hue-Angle Bin



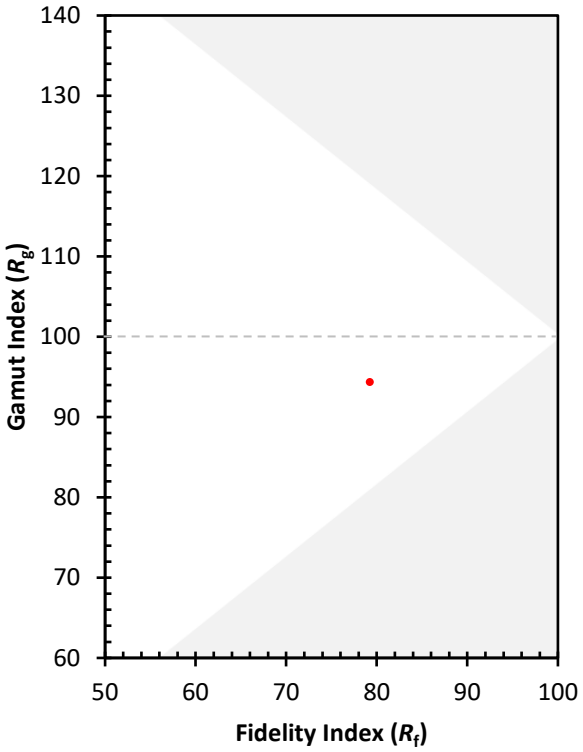


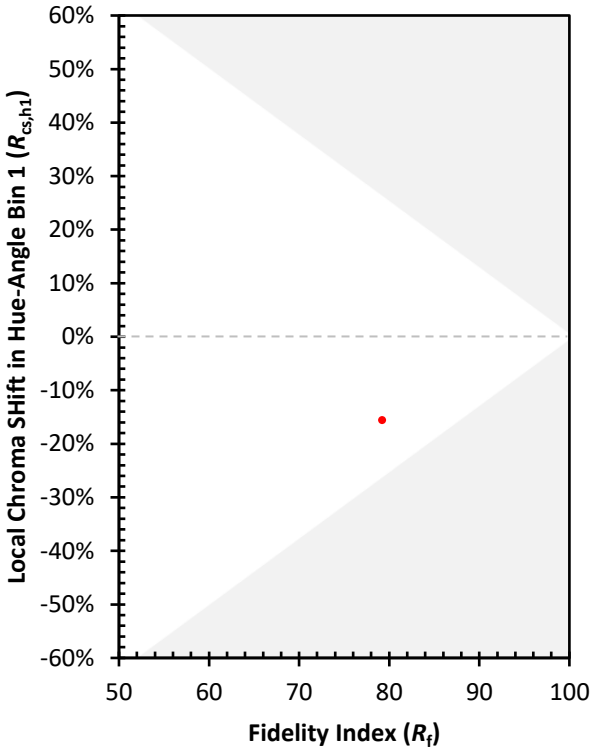


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Measure Comparisons





(END OF REPORT)