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: P1045855

Luminaire Tested: **FFX-CLB-40-740-U-VM8-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:	P1045855
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-740-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4515.1 lumens
Efficiency:	N/A
Efficacy:	114.6 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

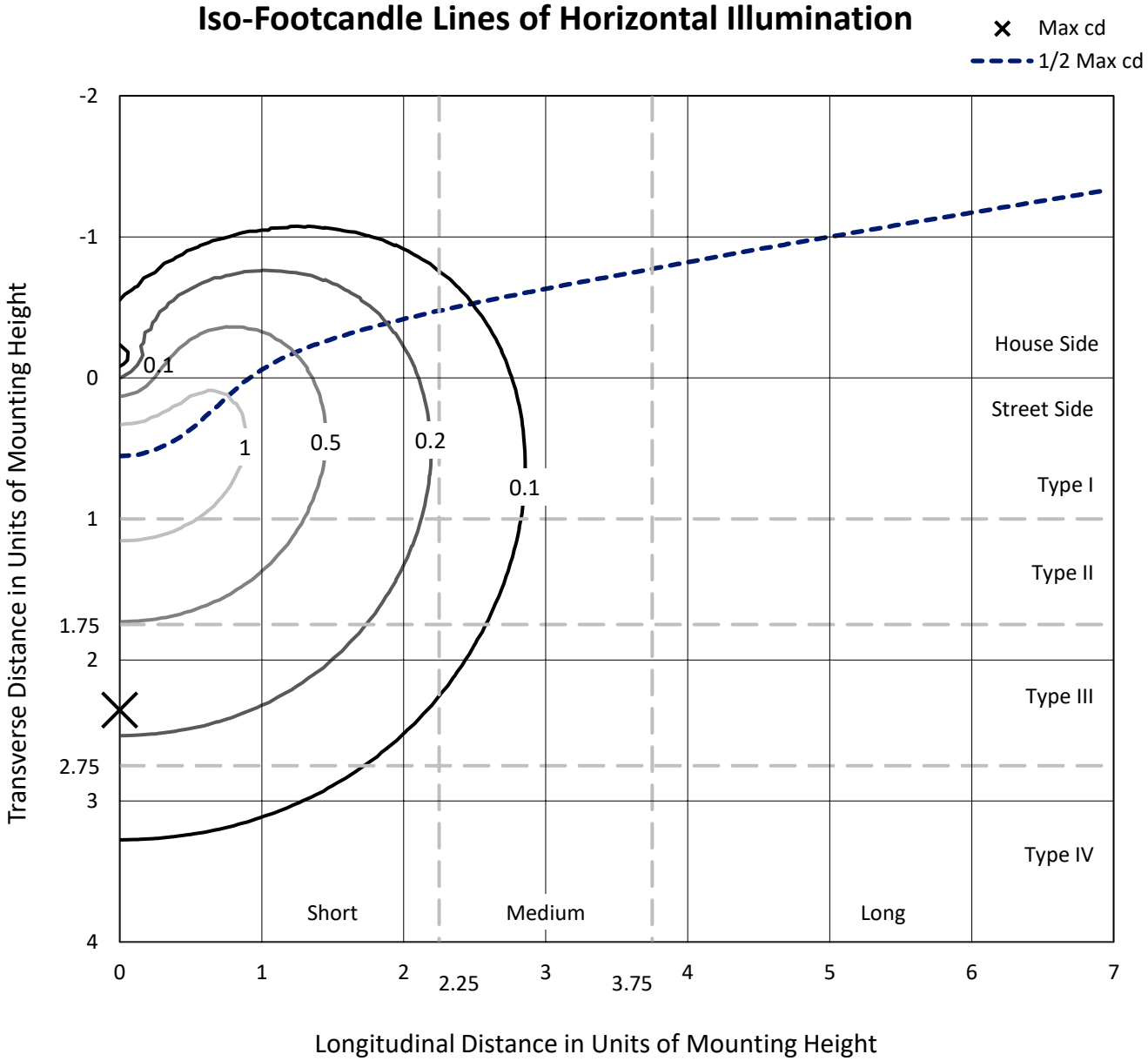


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Iso-Footcandle Lines of Horizontal Illumination



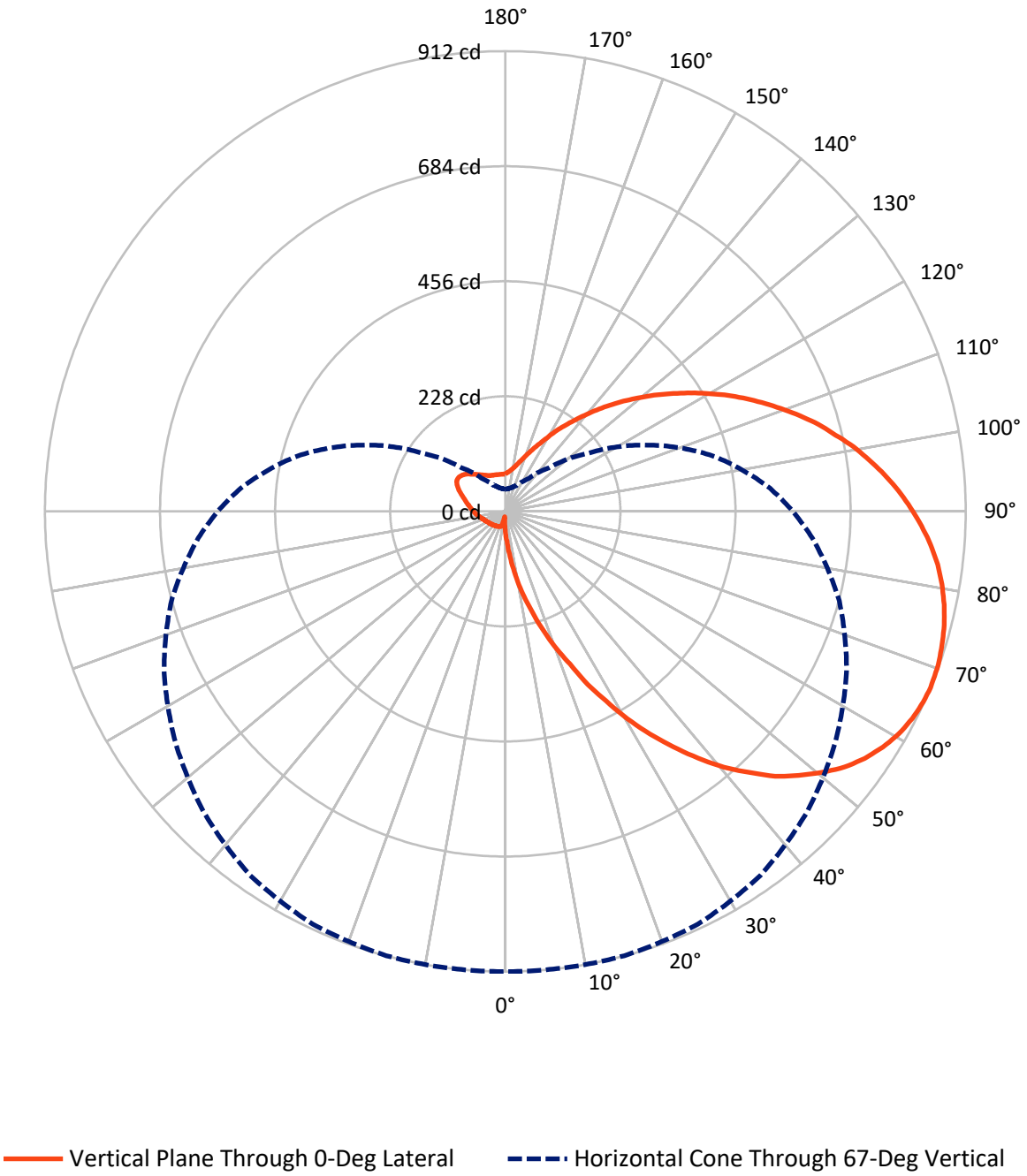
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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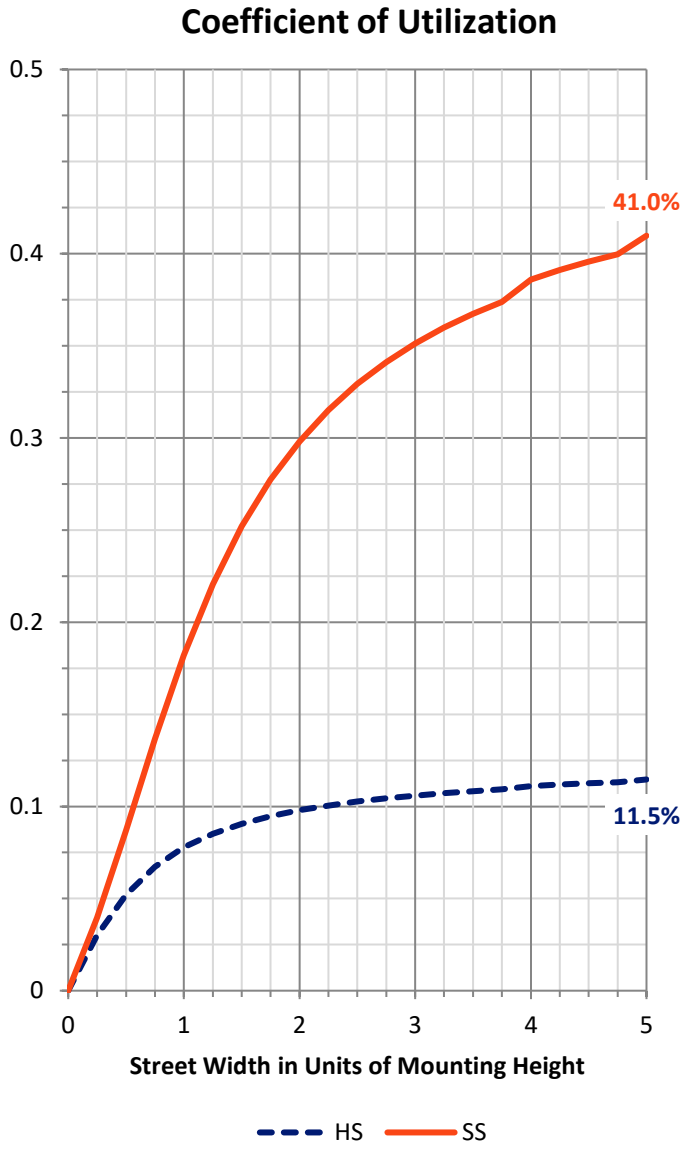
REPORT NUMBER: P1045855
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	559.1	532.7	1091.8
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2108.3	1315.1	3423.3
	% Fixture	46.7	29.1	75.8
Total	Lumens	2667.4	1847.8	4515.1
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	37.5	0.8
20°-30°	104.8	2.3
30°-40°	209.6	4.6
40°-50°	329.4	7.3
50°-60°	433.2	9.6
60°-70°	500.1	11.1
70°-80°	527.8	11.7
80°-90°	519.1	11.5
90°-100°	476.4	10.6
100°-110°	412.0	9.1
110°-120°	338.2	7.5
120°-130°	257.9	5.7
130°-140°	173.7	3.8
140°-150°	102.9	2.3
150°-160°	54.1	1.2
160°-170°	25.2	0.6
170°-180°	7.3	0.2
0°-90°	2667.4	59.1
0°-180°	4515.1	100.0



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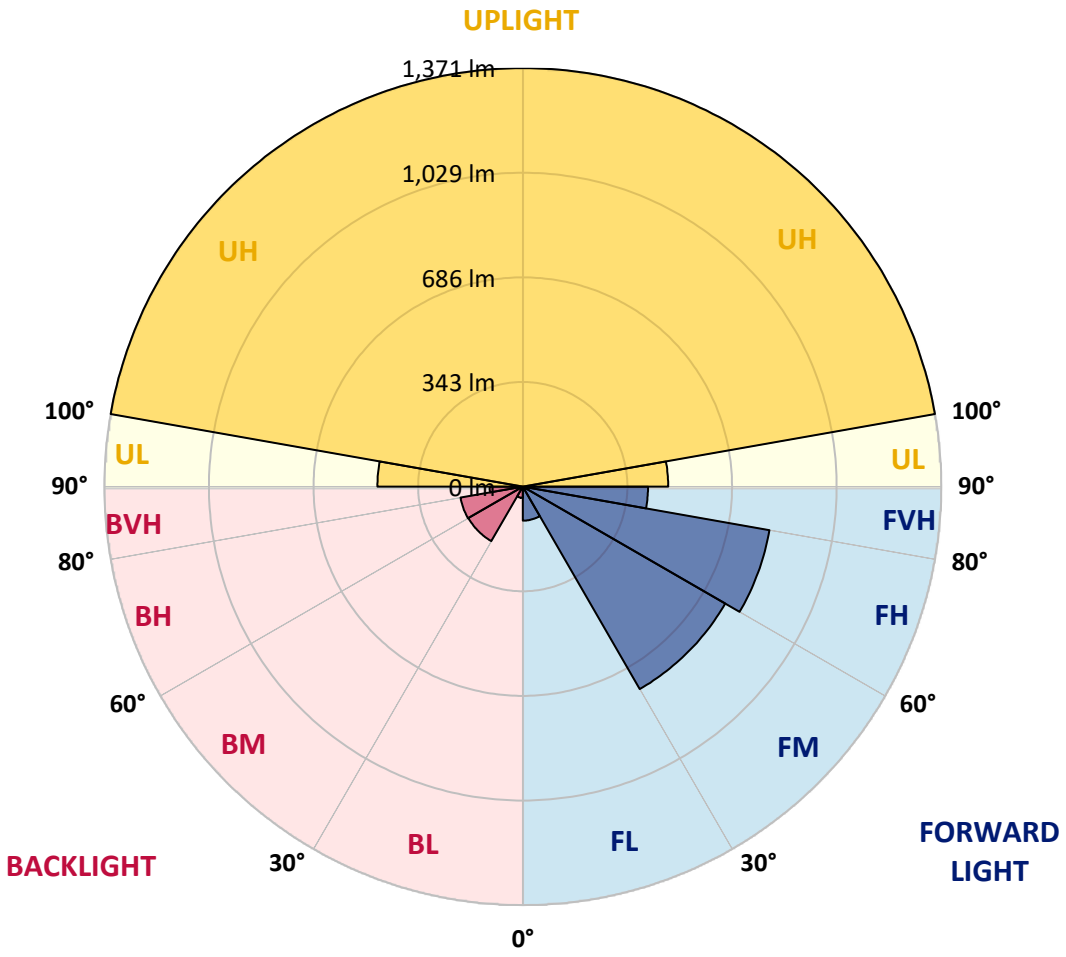
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	111.4	2.5			
FM	(30°-60°)	766.0	17.0			
FH	(60°-80°)	820.6	18.2			G1/1800
FVH	(80°-90°)	410.2	9.1			G3/500
BL	(0°-30°)	36.8	0.8	B0/110		
BM	(30°-60°)	206.2	4.6	B0/220		
BH	(60°-80°)	207.3	4.6	B1/500		G1/500
BVH	(80°-90°)	108.9	2.4			G2/225
UL	(90°-100°)	476.4	10.6		U3/500	
UH	(100°-180°)	1371.4	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°	*44.0*	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
2.5°	*58.3*	59.3	59.3	58.8	58.3	57.3	56.3	54.3	50.4	47.4	44.5
5°	*84.5*	84.5	85.0	84.5	82.5	80.5	76.1	72.6	66.2	61.3	55.8
7.5°	*114.6*	116.1	115.6	114.1	110.7	106.2	100.8	94.4	87.9	80.5	72.1
10°	*148.2*	147.7	147.7	145.7	141.8	135.9	129.9	122.5	113.1	103.7	92.9
12.5°	*179.8*	181.3	180.3	177.8	172.9	168.5	161.0	152.6	141.8	131.9	117.1
15°	*213.9*	214.9	214.9	213.4	209.0	202.5	194.1	186.2	171.9	158.1	143.8
17.5°	*252.9*	251.4	249.5	249.5	244.0	238.6	230.2	219.3	203.5	188.2	168.9
20°	*292.0*	291.5	289.0	287.5	284.1	276.1	265.3	252.9	237.1	219.8	197.1
22.5°	*328.5*	333.5	333.0	330.5	326.0	318.1	306.3	291.5	275.2	253.4	227.2
25°	*380.4*	377.4	377.9	375.4	371.5	362.1	350.2	333.0	313.2	289.0	259.4
27.5°	*425.3*	424.3	424.3	422.9	417.4	407.6	393.7	377.4	354.7	326.0	292.9
30°	*477.2*	474.7	473.7	472.3	466.8	456.0	441.6	421.4	396.7	367.5	328.5
32.5°	*526.1*	524.1	520.7	520.2	516.2	504.9	488.6	467.8	439.7	405.6	362.6
35°	*573.0*	574.0	572.5	570.1	564.6	553.8	538.0	512.8	485.1	445.6	399.2
37.5°	*620.5*	620.0	621.0	619.0	610.6	600.2	581.4	554.8	523.1	480.2	431.3
40°	*666.9*	664.4	663.9	662.0	656.0	645.7	624.4	597.2	561.7	517.2	461.9
42.5°	*706.9*	707.9	706.9	704.9	697.0	685.2	662.9	632.8	595.3	547.4	490.5
45°	*748.9*	747.4	746.9	746.9	736.6	724.2	700.0	668.9	626.9	575.5	515.2
47.5°	*782.0*	784.0	783.0	780.5	773.6	758.3	732.6	698.5	654.6	601.7	537.5
50°	*813.1*	815.6	816.1	813.6	805.2	788.4	761.7	723.7	679.3	623.4	556.7
52.5°	*841.8*	841.3	842.8	841.3	833.4	816.1	785.5	746.9	699.0	641.7	571.6
55°	*864.0*	864.0	865.0	863.0	855.6	836.3	804.7	763.7	714.8	656.0	584.4
57.5°	*881.8*	882.8	882.3	881.8	873.4	853.1	819.5	777.1	727.7	666.4	593.8
60°	*895.6*	896.1	896.1	895.1	886.7	865.5	831.4	787.4	736.1	675.3	601.2
62.5°	*904.5*	905.0	905.0	904.0	895.6	873.9	839.3	793.9	742.0	680.7	606.1
65°	*909.9*	910.4	910.4	909.5	901.1	878.8	843.3	797.3	745.0	683.7	609.1
67°	*911.9*	*911.9*	*911.9*	*911.4*	*902.5*	*880.8*	*844.2*	*797.8*	*745.9*	*684.7*	*610.6*
67.5°	*911.4*	911.4	911.9	910.9	902.5	880.3	843.8	797.8	745.4	684.7	610.6
70°	*909.9*	909.9	909.9	909.0	900.6	878.3	841.8	795.3	744.0	683.7	610.1
72.5°	*904.5*	905.0	905.0	904.0	895.6	873.9	837.3	790.9	740.0	680.7	608.6
75°	*898.1*	898.1	898.1	897.1	888.7	867.0	830.9	785.0	735.1	676.8	605.6
77.5°	*888.7*	888.7	888.7	887.7	879.3	858.1	822.5	777.6	728.7	671.3	602.2
80°	*876.9*	877.3	876.9	875.9	867.5	846.2	812.1	768.2	720.3	664.9	597.2
82.5°	*863.0*	863.5	863.0	861.0	853.1	832.9	798.8	755.8	710.4	656.5	591.3
85°	*845.2*	844.7	845.2	842.3	835.4	815.1	784.0	742.0	698.0	646.6	582.9
87.5°	*825.0*	825.5	824.5	823.0	814.6	794.8	765.2	726.2	683.7	634.8	573.0
90°	*802.8*	802.8	802.3	800.3	791.4	773.6	745.4	707.9	668.4	621.5	562.7
92.5°	*780.0*	779.5	778.1	777.1	769.2	750.9	723.7	690.1	653.1	608.1	551.8
95°	*754.8*	754.8	753.8	751.9	743.0	728.2	702.0	670.4	635.3	593.8	540.4
97.5°	*728.2*	727.7	727.2	724.2	716.3	701.5	680.2	649.6	617.5	578.5	527.6
100°	*702.0*	700.5	699.5	696.5	689.6	675.3	655.0	628.4	597.2	561.7	513.8
102.5°	*671.3*	671.3	670.9	667.9	659.0	647.1	628.9	605.2	578.5	544.4	498.9
105°	*644.2*	641.7	640.7	637.8	630.8	618.0	602.7	581.9	557.2	525.6	484.1
107.5°	*613.5*	611.6	611.1	606.6	601.2	589.3	576.5	557.2	536.5	508.3	468.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*582.4*	581.4	580.9	576.5	569.6	561.7	548.3	533.0	514.7	489.1	454.5
112.5°	*551.8*	550.8	550.8	547.4	540.9	531.1	521.7	508.3	492.0	469.8	437.7
115°	*521.7*	520.2	519.7	515.7	509.3	501.9	492.5	483.1	469.3	450.5	421.4
117.5°	*491.5*	489.6	490.0	486.6	481.7	474.2	465.3	458.9	447.1	429.8	405.1
120°	*460.4*	460.9	460.9	456.5	452.0	446.1	438.7	432.3	424.3	409.0	386.3
122.5°	*430.8*	431.8	431.8	428.8	423.4	417.9	413.0	407.1	400.1	388.3	368.0
125°	*401.1*	403.1	402.1	399.6	395.2	389.3	385.8	380.9	375.4	365.6	347.8
127.5°	*374.0*	374.0	371.5	372.0	367.5	362.6	359.6	356.2	350.7	341.4	327.0
130°	*345.8*	346.3	346.8	343.8	339.9	335.9	333.0	331.5	327.0	319.1	304.8
132.5°	*320.1*	320.1	319.1	317.1	313.7	310.7	310.7	306.3	302.8	295.4	283.1
135°	*294.9*	294.4	294.4	292.4	290.0	288.5	285.0	283.1	279.6	272.7	263.3
137.5°	*270.2*	271.2	270.2	268.7	266.3	264.3	261.8	261.3	256.4	251.4	241.1
140°	*246.5*	248.0	246.5	246.0	244.0	241.6	240.1	238.1	236.6	230.2	221.3
142.5°	*224.3*	225.3	224.3	223.8	222.3	220.3	219.3	217.9	214.4	210.4	203.0
145°	*205.0*	204.5	204.5	204.0	202.0	200.6	199.1	198.1	196.1	192.2	183.8
147.5°	*186.2*	184.8	185.7	184.8	183.3	182.3	181.8	179.8	177.8	173.9	168.0
150°	*167.0*	168.0	167.5	167.0	165.5	165.5	164.0	162.5	161.0	156.6	152.6
152.5°	*151.2*	151.2	151.7	150.7	150.2	148.7	147.7	147.2	145.2	142.3	137.8
155°	*137.8*	137.3	137.3	137.3	136.3	134.9	134.4	133.4	132.4	128.9	125.0
157.5°	*125.0*	125.0	125.0	124.5	124.5	123.0	122.5	121.0	119.5	117.6	114.1
160°	*114.1*	114.1	113.6	113.6	113.1	112.6	111.6	110.2	109.2	107.7	104.7
162.5°	*105.2*	104.7	104.7	104.2	103.7	102.8	102.3	101.8	100.3	98.8	96.3
165°	*96.8*	96.8	96.8	96.3	95.8	95.3	94.8	93.9	92.9	91.9	90.4
167.5°	*90.4*	90.4	90.4	89.9	89.9	89.4	88.9	87.9	86.9	86.0	85.0
170°	*85.5*	85.5	85.5	85.0	84.5	84.0	83.5	83.0	82.5	81.5	81.0
172.5°	*81.5*	81.5	81.5	81.5	80.5	80.0	79.5	79.5	79.0	78.5	78.1
175°	*78.1*	78.1	78.1	78.1	77.6	77.1	76.6	76.6	76.1	75.6	75.1
177.5°	*76.1*	76.1	76.1	75.6	75.6	75.1	74.6	74.6	74.1	74.1	73.6
180°	*73.6*	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
2.5°	42.5	40.5	37.1	34.1	31.6	29.1	27.7	26.2	26.2	26.7	25.7
5°	51.4	47.9	41.5	34.6	28.7	23.7	19.8	16.3	13.3	11.9	11.9
7.5°	68.2	64.2	55.3	46.4	38.0	30.1	23.7	18.3	13.8	11.4	10.9
10°	87.4	83.0	70.6	59.8	49.4	39.5	31.1	23.7	18.8	16.3	15.8
12.5°	109.7	103.7	88.9	75.1	61.8	49.4	39.0	30.6	25.7	23.2	22.7
15°	135.4	126.0	109.2	91.9	74.6	59.3	46.9	37.5	32.1	28.7	28.7
17.5°	158.6	148.7	128.4	106.2	86.5	68.7	53.8	42.5	35.1	31.6	31.1
20°	185.3	171.9	147.7	122.0	97.8	76.1	58.3	45.4	36.6	32.1	32.1
22.5°	212.4	198.6	168.9	137.8	108.7	83.0	62.7	47.4	37.5	32.6	32.1
25°	244.5	225.8	190.2	155.1	121.0	90.4	66.7	49.4	38.5	33.6	32.6
27.5°	275.7	256.4	214.9	172.4	132.4	97.8	70.1	51.4	39.5	34.1	33.6
30°	308.3	284.5	237.6	190.2	144.2	104.2	73.6	52.9	40.0	34.6	33.6
32.5°	340.9	314.7	262.8	207.5	155.6	110.2	76.6	53.8	41.0	35.1	34.1
35°	374.0	345.8	287.0	224.8	166.0	115.6	78.5	54.8	41.5	35.1	34.6
37.5°	402.6	373.0	309.7	240.6	174.9	120.0	80.5	55.8	41.5	35.6	35.1
40°	431.3	399.2	329.5	253.9	182.8	123.5	82.0	56.3	42.0	36.1	35.6
42.5°	457.0	421.4	346.8	265.8	189.2	126.0	82.5	56.3	42.5	36.6	36.1
45°	480.2	444.1	363.1	277.1	194.6	127.5	83.0	56.8	43.0	37.1	36.6
47.5°	501.4	462.9	377.9	286.5	199.1	128.9	83.0	56.8	43.5	38.0	37.1
50°	519.2	478.7	390.3	294.4	202.0	129.4	82.5	56.8	44.0	38.5	38.0
52.5°	533.0	492.0	400.6	299.9	204.0	128.9	82.0	56.8	44.5	39.0	38.5
55°	544.9	502.9	408.0	304.3	204.5	127.9	81.5	56.8	45.0	40.0	39.5
57.5°	553.8	510.8	414.5	307.8	205.0	127.0	80.5	56.8	45.4	40.5	40.0
60°	560.7	517.7	419.4	309.7	204.5	125.5	80.0	56.8	45.9	41.5	41.0
62.5°	565.6	521.7	422.4	310.2	203.0	124.0	79.0	56.8	46.4	42.5	42.0
65°	568.6	524.6	424.8	310.7	201.6	122.5	78.5	57.3	47.4	44.0	43.5
67°	*569.6*	*526.1*	*425.3*	*310.7*	*200.6*	*121.5*	*78.5*	*57.8*	*48.4*	*44.5*	*44.0*
67.5°	570.1	526.1	425.3	310.2	200.1	121.5	78.5	57.8	48.4	45.0	44.5
70°	569.6	526.1	425.3	309.2	198.6	120.5	78.1	58.8	49.9	46.4	45.9
72.5°	568.6	525.1	424.3	307.8	196.6	119.5	78.5	59.8	51.4	47.9	47.4
75°	566.1	523.1	422.4	305.8	195.1	118.6	79.0	60.8	52.9	49.9	49.4
77.5°	563.7	520.7	420.9	303.8	193.6	118.6	79.5	62.2	54.8	51.9	51.4
80°	559.2	517.2	417.9	301.8	192.2	118.1	80.5	64.2	56.8	53.8	53.4
82.5°	553.8	512.3	414.0	298.9	190.7	118.1	82.0	65.7	58.8	55.8	55.3
85°	546.4	505.9	409.0	294.9	189.2	118.6	83.0	67.7	60.8	58.3	57.8
87.5°	538.0	498.0	403.1	291.5	187.7	118.6	84.5	69.7	62.7	60.3	60.3
90°	528.1	489.6	396.2	287.5	186.2	119.5	86.5	71.6	65.2	62.7	62.7
92.5°	519.2	480.7	390.8	283.6	185.3	120.5	88.4	74.1	67.7	65.2	65.2
95°	507.3	471.3	382.9	280.1	184.8	121.5	90.4	76.6	70.6	68.2	67.7
97.5°	496.0	460.9	375.9	276.1	184.3	123.5	92.9	79.5	73.1	70.6	70.6
100°	483.6	450.5	368.0	272.7	184.3	126.0	96.3	82.5	76.6	74.1	73.6
102.5°	471.8	439.2	360.1	269.2	185.3	128.4	99.8	86.0	80.0	77.6	77.1
105°	458.4	427.3	353.2	266.3	186.2	131.9	103.7	90.4	84.0	81.5	81.0
107.5°	445.1	416.4	345.3	263.8	188.2	136.3	108.7	94.8	88.4	85.5	85.0

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

Scaled Data Report

REPORT NUMBER: P1045855
CATALOG NUMBER: FFX-CLB-40-740-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	430.8	404.6	338.4	261.8	191.2	141.3	114.1	100.8	93.4	90.4	89.9
112.5°	417.4	392.7	331.0	260.3	194.1	147.2	120.5	106.2	99.3	95.3	94.8
115°	402.6	380.4	324.1	258.9	197.6	153.1	127.5	112.1	104.7	100.8	100.8
117.5°	388.3	367.5	316.2	257.4	201.1	159.6	133.9	118.6	110.2	106.2	105.7
120°	371.5	353.7	307.8	254.4	203.0	164.5	139.3	124.0	114.6	110.7	110.2
122.5°	354.7	338.4	296.9	250.0	203.5	167.5	143.3	128.4	118.6	114.1	113.6
125°	335.4	321.6	285.5	243.0	202.0	168.9	145.7	129.9	120.0	115.1	114.6
127.5°	316.7	303.3	272.2	234.7	198.1	167.5	145.2	129.9	120.0	114.6	114.1
130°	296.4	284.5	256.4	224.3	191.7	164.0	143.3	127.9	118.1	112.6	112.1
132.5°	275.7	265.8	241.1	212.9	183.8	158.6	138.8	124.5	114.6	109.7	109.2
135°	255.4	246.5	225.3	200.1	175.4	152.2	133.9	120.0	110.2	105.7	105.7
137.5°	236.1	227.7	209.0	187.7	165.5	144.7	127.9	114.6	106.2	101.8	100.8
140°	216.4	209.5	193.2	174.4	155.1	136.8	121.5	109.2	101.3	97.3	96.8
142.5°	198.1	192.2	178.3	163.0	145.2	129.4	115.1	104.7	97.3	93.4	92.9
145°	180.8	175.4	163.5	149.7	135.4	121.5	108.7	99.3	92.9	89.9	89.4
147.5°	163.5	160.1	150.2	138.8	125.5	113.1	102.8	94.8	88.9	86.5	86.0
150°	149.2	144.7	137.3	127.0	116.6	106.2	97.3	90.4	86.0	83.5	83.5
152.5°	134.9	132.4	125.0	117.1	108.2	99.8	91.9	86.5	83.0	81.0	81.0
155°	124.0	120.5	114.1	107.7	100.3	93.4	87.9	83.5	80.5	79.0	78.5
157.5°	112.6	110.7	105.7	99.8	94.4	88.9	84.5	81.0	78.5	77.6	77.1
160°	103.2	101.8	97.8	93.4	88.9	85.0	81.5	79.0	77.1	76.1	76.1
162.5°	95.3	94.4	90.9	87.9	84.5	81.5	79.0	77.1	76.1	75.6	75.6
165°	89.4	88.4	86.0	83.5	81.5	79.0	77.6	76.1	75.1	75.1	75.1
167.5°	84.5	83.5	82.0	80.5	79.0	77.1	76.1	75.1	75.1	74.6	74.6
170°	80.5	80.0	78.5	77.6	76.6	75.6	75.1	74.6	74.1	74.1	74.1
172.5°	77.6	77.1	76.1	75.6	74.6	74.1	74.1	74.1	74.1	74.1	74.1
175°	75.1	74.6	74.6	74.1	73.6	73.6	73.1	73.6	73.6	73.6	73.6
177.5°	73.6	73.6	73.1	73.1	73.1	73.1	73.1	73.6	73.6	74.1	74.1
180°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6

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

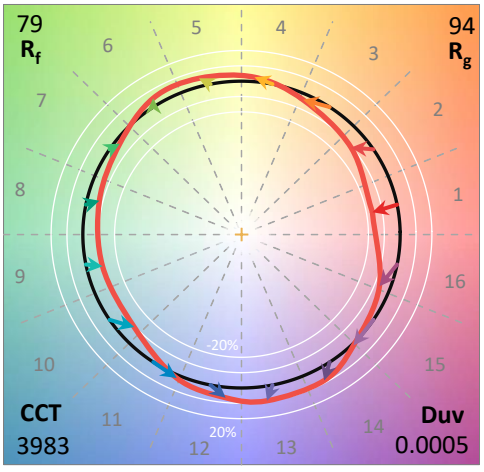
Test Information

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

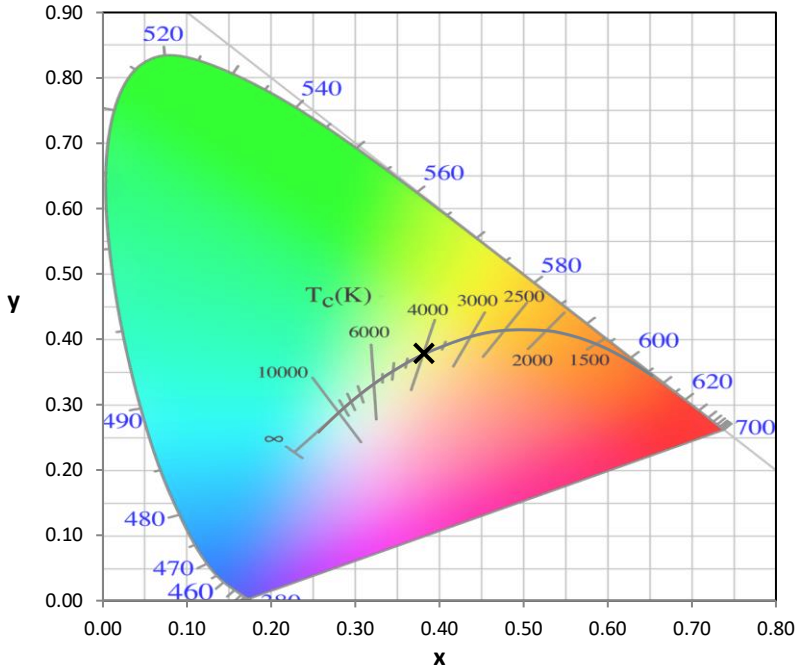
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

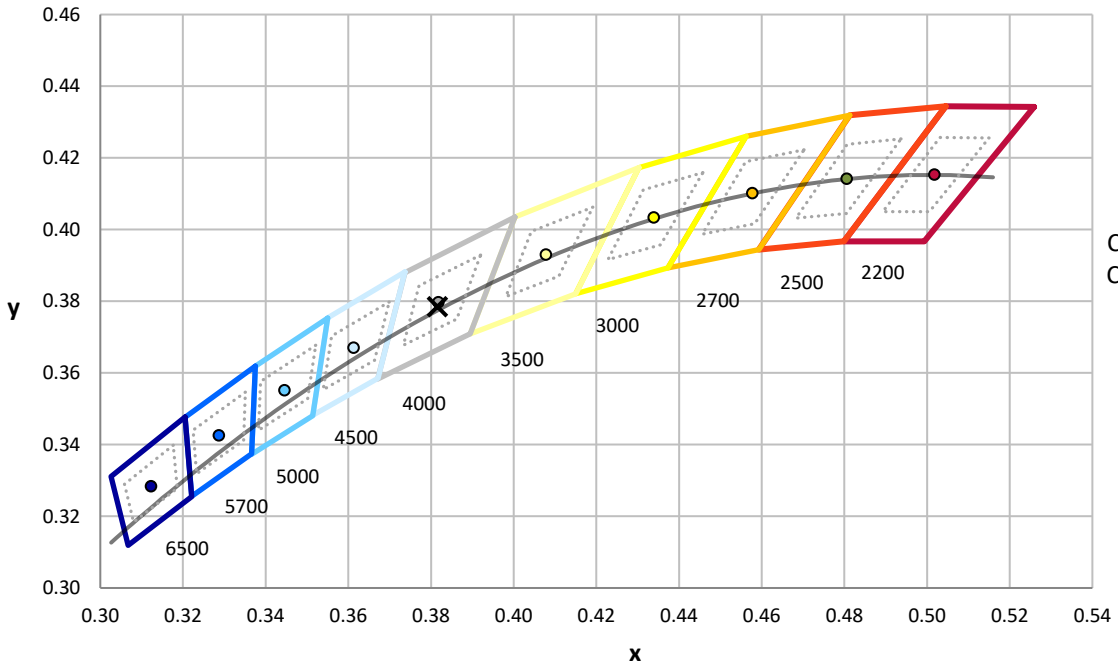
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

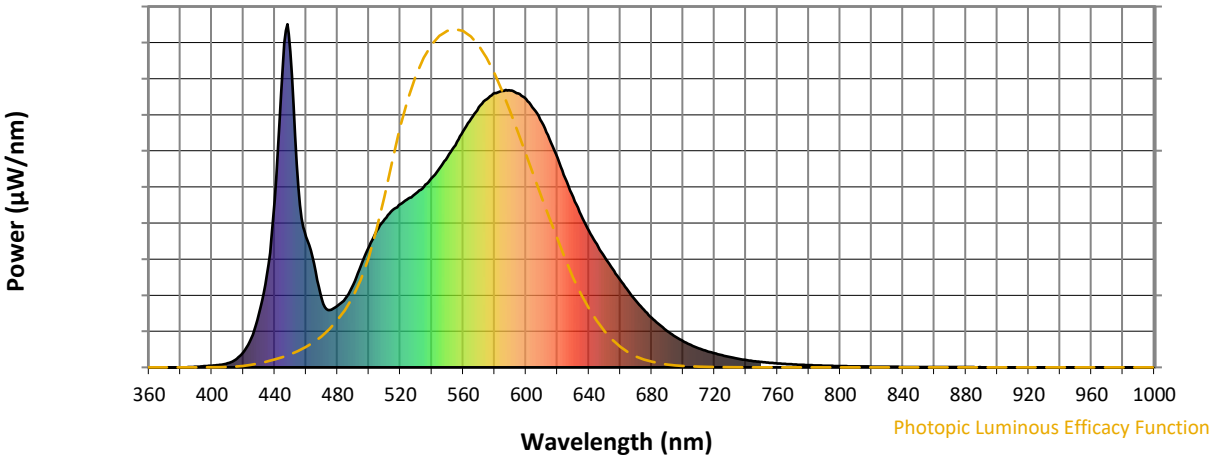


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

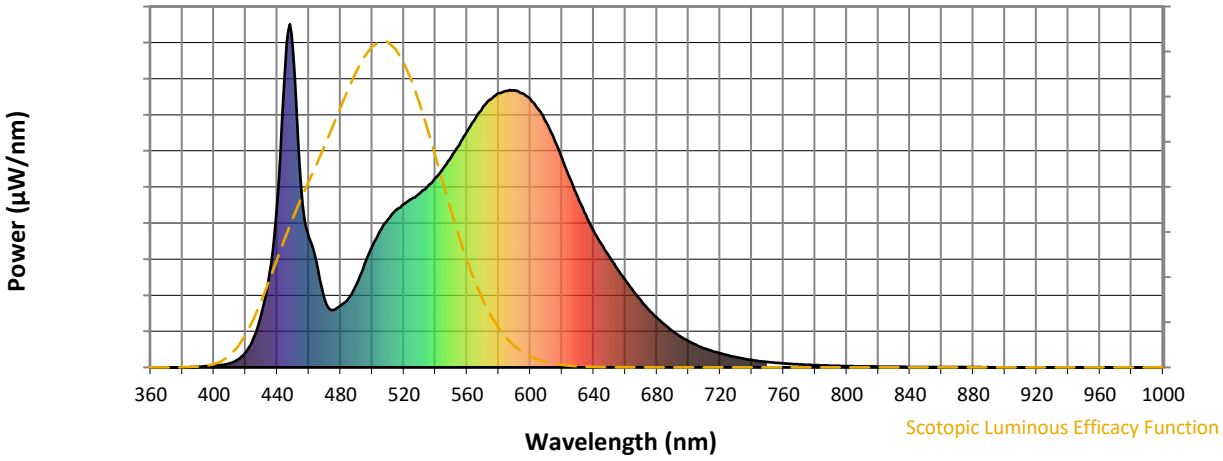


Photopic Lumens: NR

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

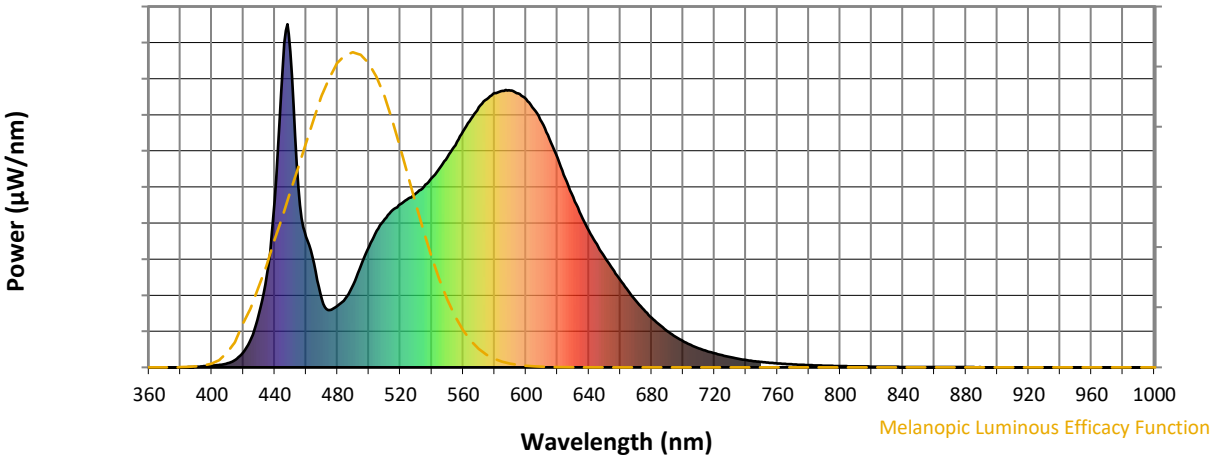


Scotopic Lumens: NR **S/P: 1.61**

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			

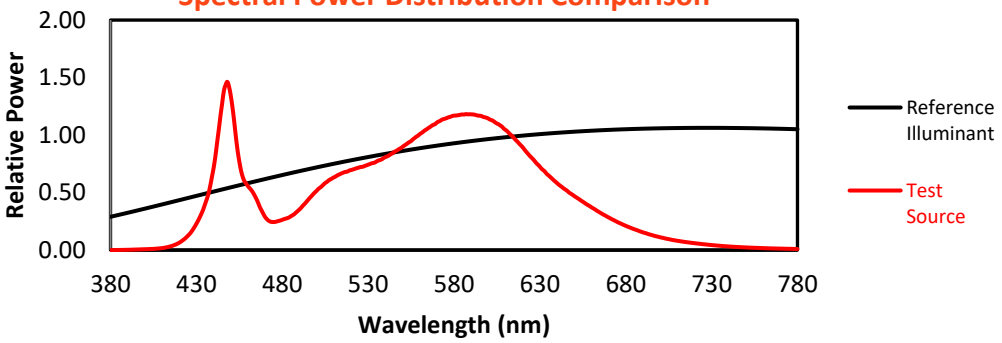
REPORT NUMBER: SP1-2501-332-11

TM-30-18

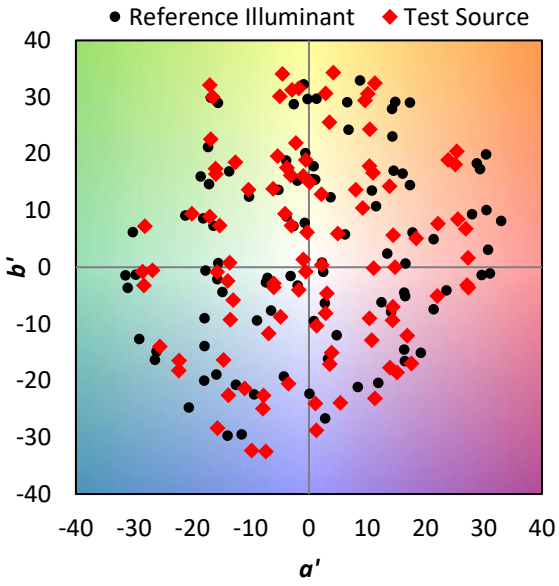
Summary

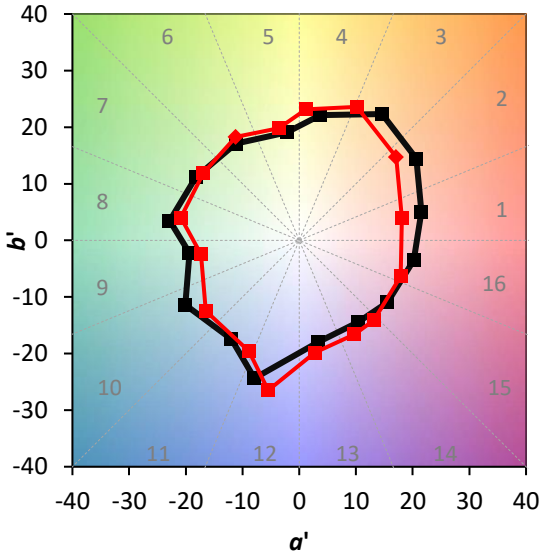
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

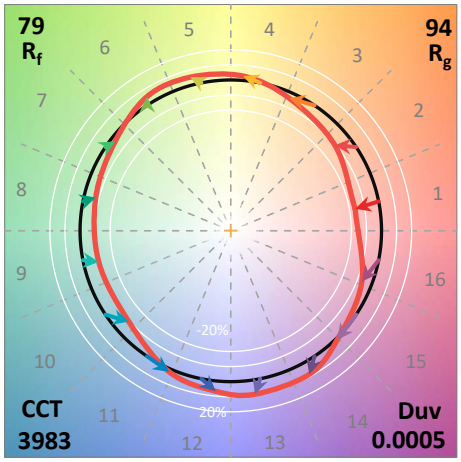
Spectral Power Distribution Comparison

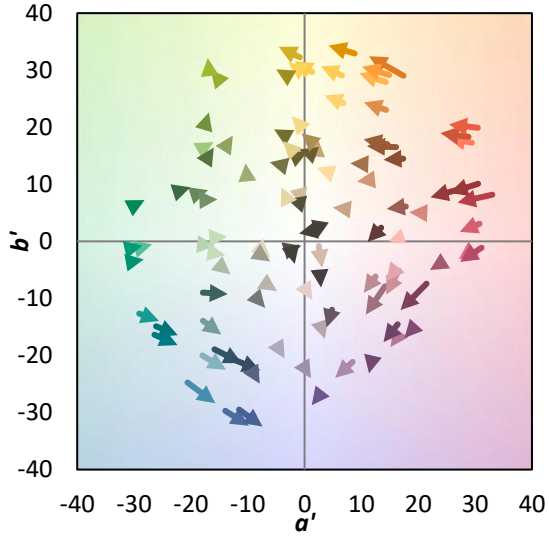


Color Vector Graphics







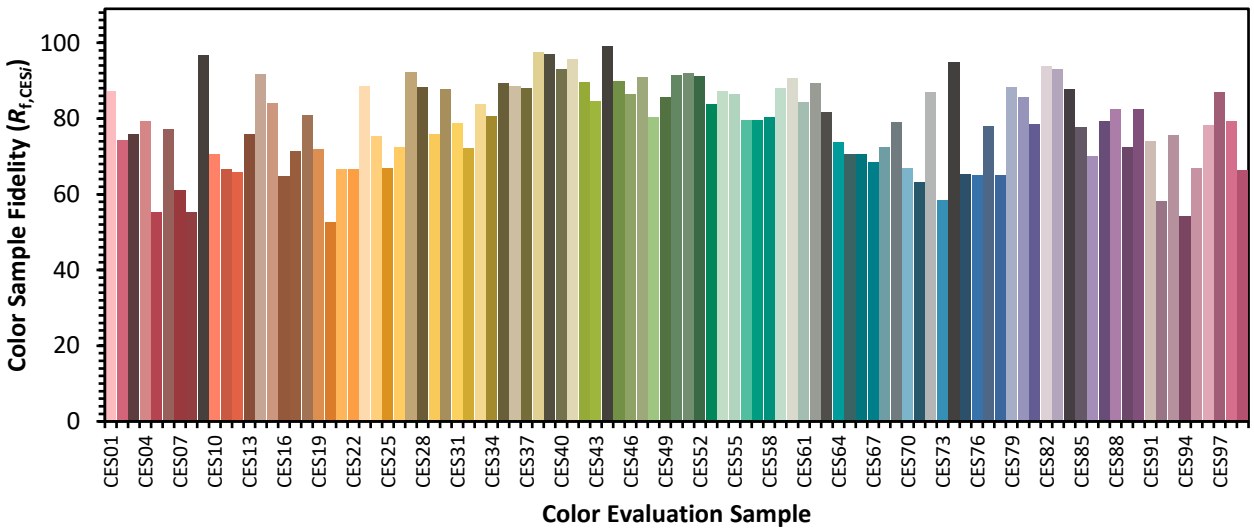


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

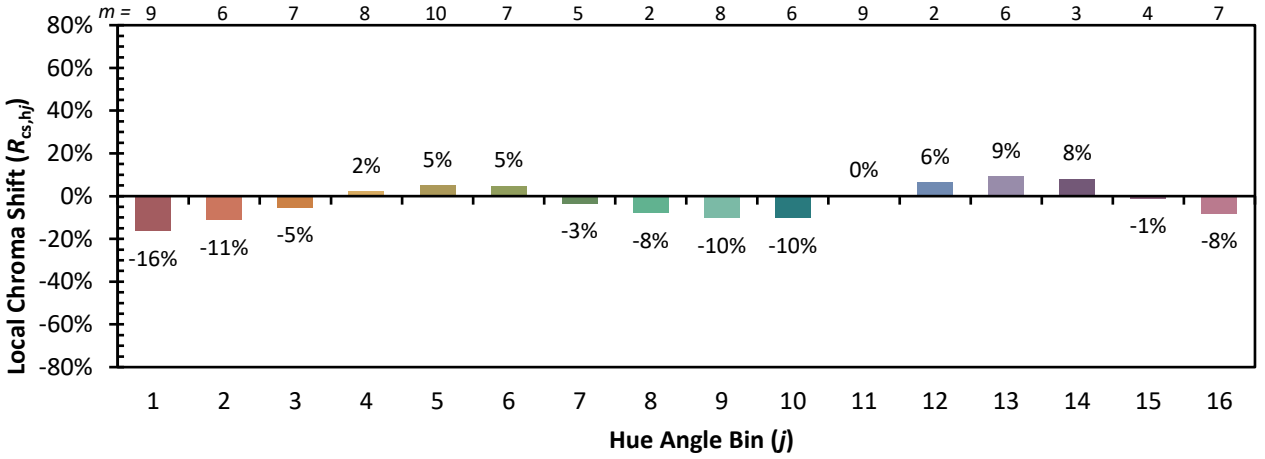
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 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	

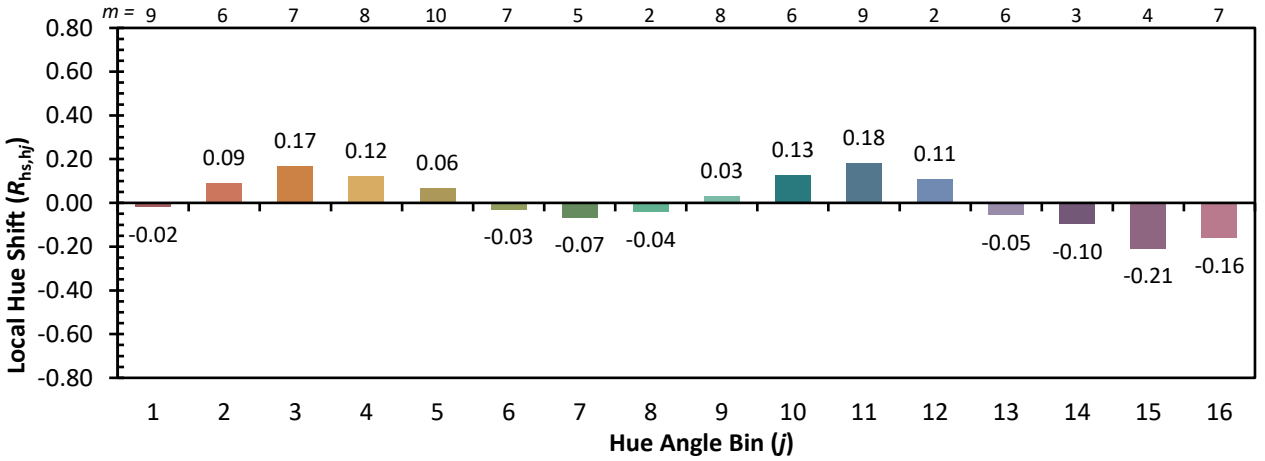


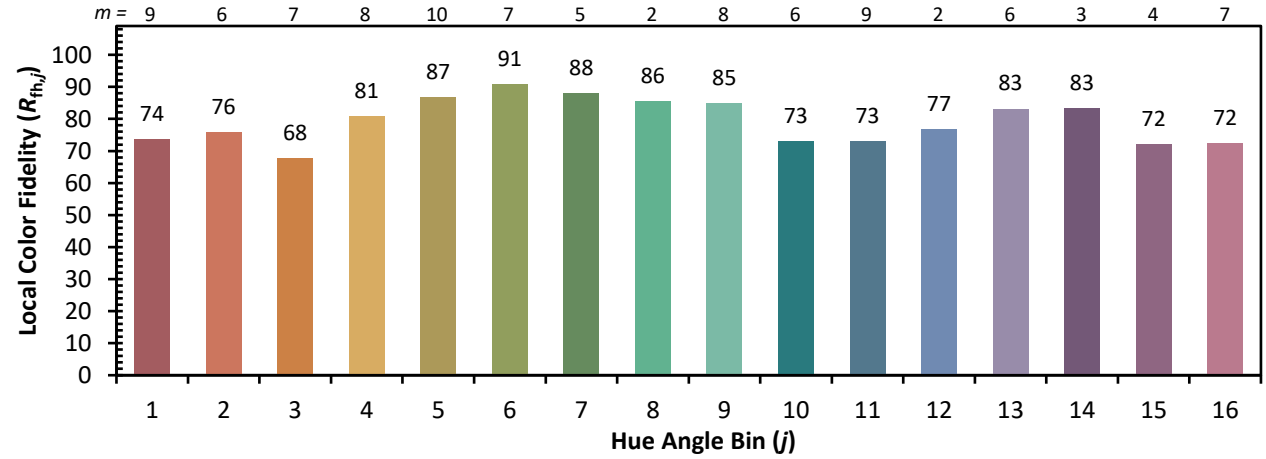
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Color Rendition by Hue-Angle Bin



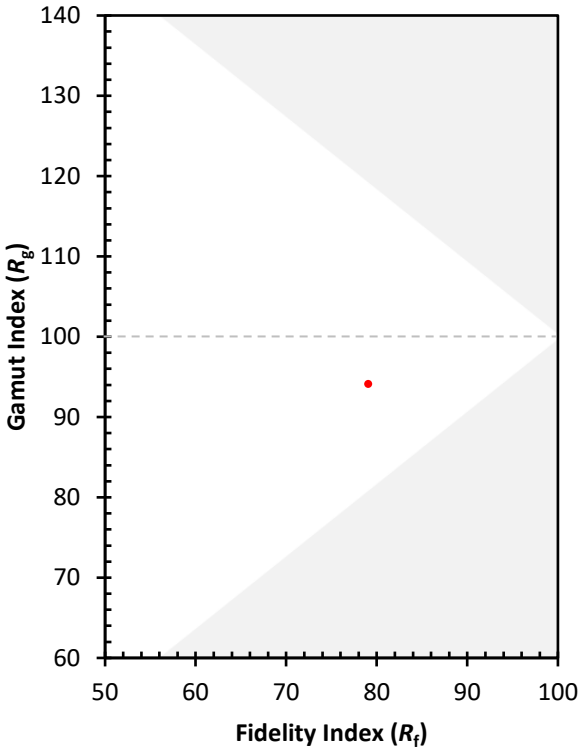


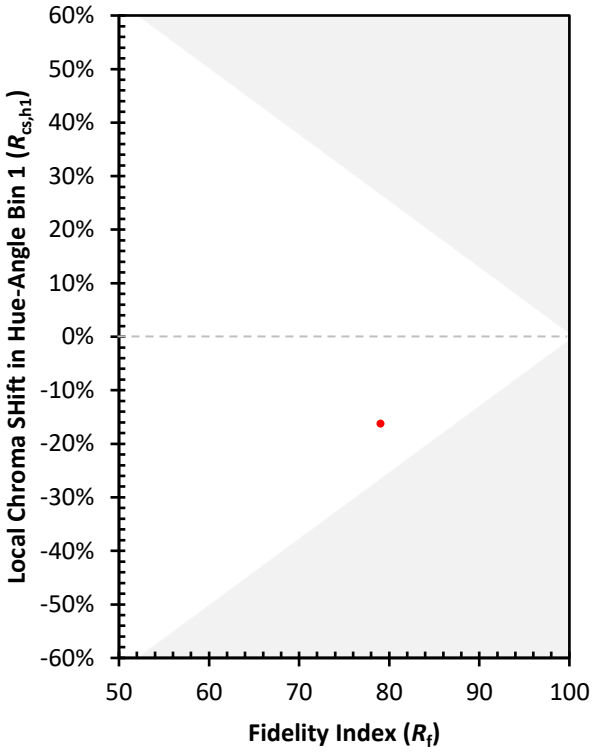


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Measure Comparisons





(END OF REPORT)