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: P1046567

Luminaire Tested: **FFX-CLB-30-730-U-FR-T3-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046567
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4319.4 lumens
Efficiency:	N/A
Efficacy:	141.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G2

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

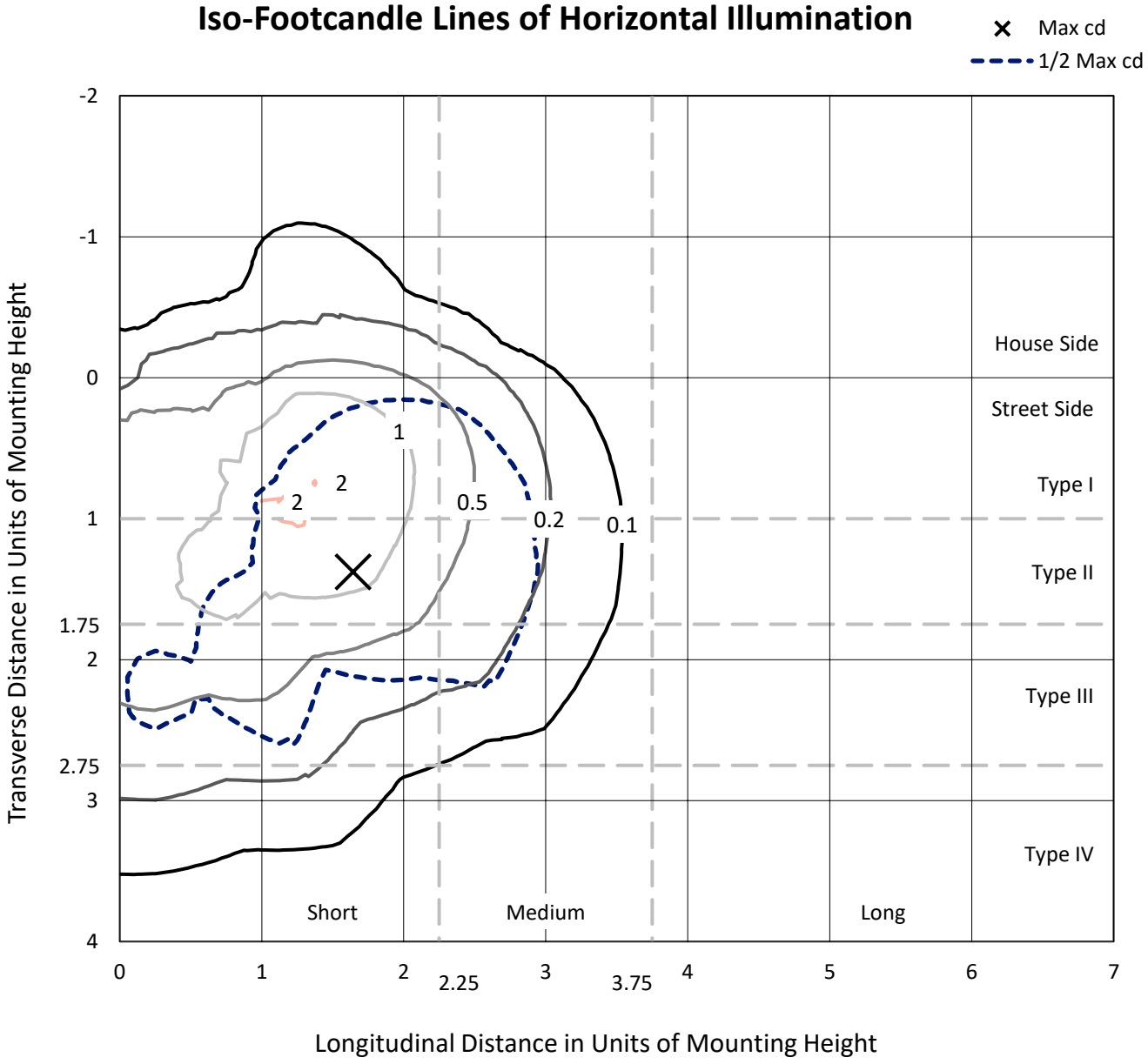


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Iso-Footcandle Lines of Horizontal Illumination



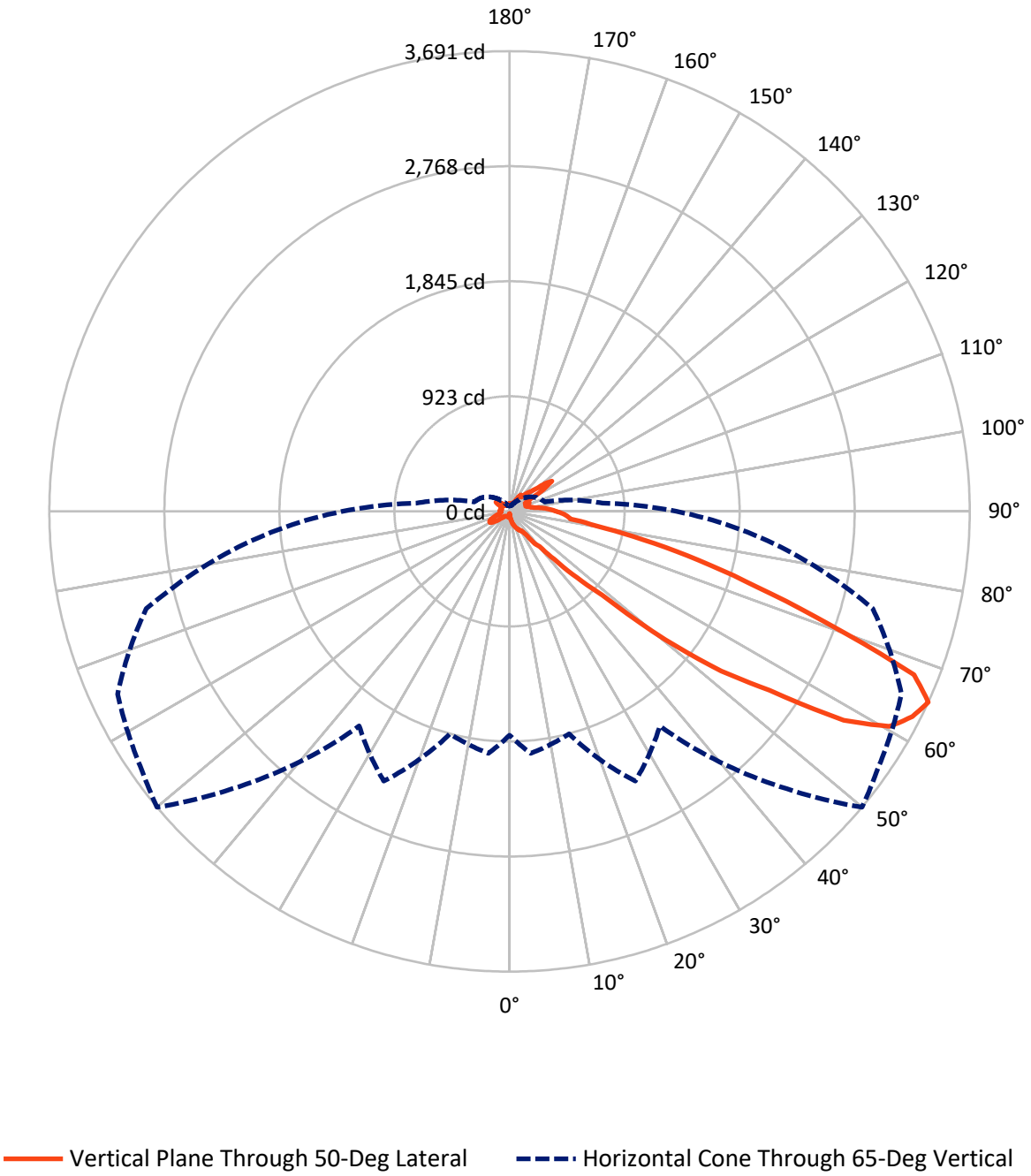
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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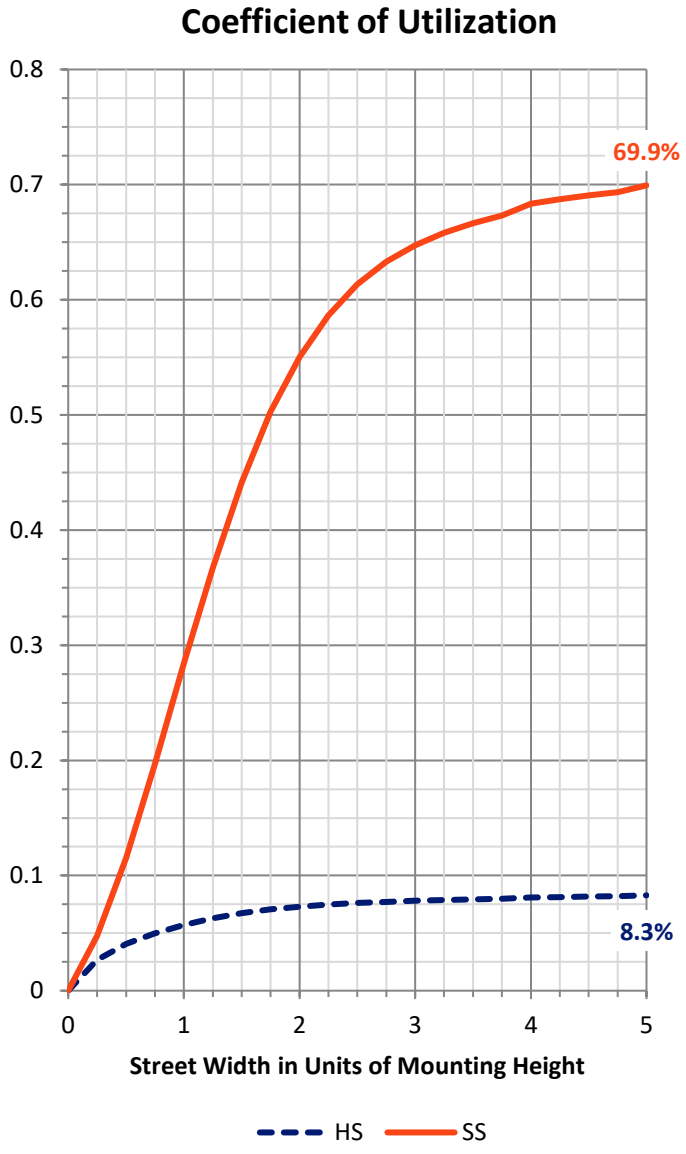
REPORT NUMBER: P1046567
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.9	249.4	628.3
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	3124.5	566.6	3691.1
	% Fixture	72.3	13.1	85.5
Total	Lumens	3503.4	816.0	4319.4
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	22.5	0.5
20°-30°	48.1	1.1
30°-40°	96.1	2.2
40°-50°	251.8	5.8
50°-60°	834.2	19.3
60°-70°	1315.6	30.5
70°-80°	687.0	15.9
80°-90°	243.9	5.6
90°-100°	157.4	3.6
100°-110°	106.2	2.5
110°-120°	121.2	2.8
120°-130°	200.8	4.6
130°-140°	114.7	2.7
140°-150°	62.8	1.5
150°-160°	30.8	0.7
160°-170°	16.3	0.4
170°-180°	5.9	0.1
0°-90°	3503.4	81.1
0°-180°	4319.4	100.0



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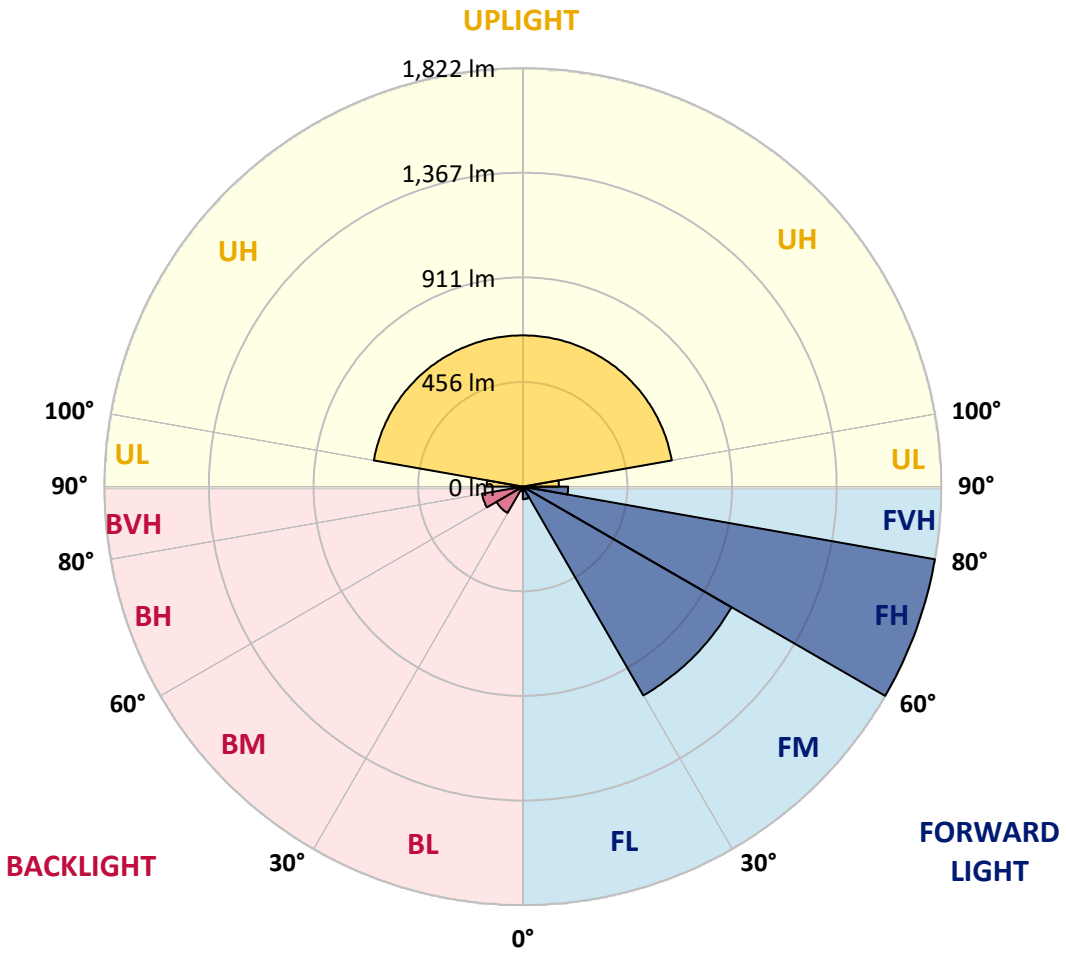
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	54.9	1.3			
FM	(30°-60°)	1049.7	24.3			
FH	(60°-80°)	1822.4	42.2			G2/5000
FVH	(80°-90°)	197.5	4.6			G2/225
BL	(0°-30°)	19.9	0.5	B0/110		
BM	(30°-60°)	132.4	3.1	B0/220		
BH	(60°-80°)	180.2	4.2	B1/500		G1/500
BVH	(80°-90°)	46.4	1.1			G1/100
UL	(90°-100°)	157.4	3.6		U3/500	
UH	(100°-180°)	658.6	15.2		U4/1000	

BUG Rating: B1-U4-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
2.5°	29.3	29.0	29.6	30.5	30.2	29.3	28.7	28.4	27.5	27.2	26.3
5°	43.3	43.0	42.4	43.0	43.3	42.1	41.5	40.0	38.5	35.7	34.2
7.5°	60.7	61.1	61.7	60.1	59.5	56.8	56.2	54.6	52.2	48.8	47.9
10°	82.4	82.7	84.3	81.8	77.8	74.5	73.9	74.5	77.2	68.7	63.5
12.5°	103.8	102.9	107.5	106.2	101.0	96.2	93.7	94.0	92.8	86.4	77.8
15°	123.6	123.6	127.0	128.2	122.7	111.4	107.8	106.8	106.2	99.5	87.6
17.5°	136.1	136.8	137.1	137.1	135.2	125.8	121.5	119.7	114.2	108.1	97.1
20°	146.5	146.8	144.1	144.4	147.1	138.9	134.6	131.0	125.2	118.7	105.0
22.5°	160.9	160.3	156.0	154.2	160.3	153.2	148.7	144.7	137.7	130.3	117.8
25°	176.7	176.1	171.9	167.3	171.6	165.1	160.3	156.6	150.2	145.3	119.7
27.5°	192.0	191.4	184.1	183.5	179.8	176.7	171.6	170.6	165.8	151.4	118.7
30°	203.3	202.7	194.8	195.1	185.6	188.0	180.4	179.8	174.0	155.1	120.9
32.5°	207.6	208.2	204.8	203.3	190.5	200.3	193.2	190.8	189.3	164.8	131.6
35°	223.1	228.0	233.2	235.1	223.5	241.8	227.4	225.6	229.3	200.6	164.2
37.5°	343.1	340.7	321.4	294.3	288.2	328.5	326.3	327.9	325.4	285.4	217.3
40°	343.4	344.9	332.7	316.3	297.0	338.2	369.7	341.9	382.5	311.1	238.4
42.5°	360.8	355.9	384.9	391.3	370.0	431.3	524.1	419.4	507.0	379.1	324.5
45°	427.1	427.1	432.3	435.3	427.7	581.8	761.3	585.2	677.7	474.4	389.5
47.5°	495.4	489.6	519.3	569.0	598.6	748.8	1004.9	773.2	919.1	637.7	540.6
50°	690.8	699.1	755.8	813.8	858.1	1114.8	1617.9	1324.8	1501.3	980.5	825.4
52.5°	842.5	890.8	934.4	1097.1	1117.0	1523.3	2126.8	1777.5	1923.5	1377.6	1022.0
55°	999.1	1094.7	1120.6	1407.9	1430.5	1957.3	2531.8	2251.6	2292.8	1816.3	1213.4
57.5°	1286.1	1419.5	1428.3	1734.8	1733.9	2521.8	3161.0	2932.0	2900.9	2313.0	1506.8
60°	1533.0	1685.0	1630.7	2055.3	1960.1	2937.8	3502.0	3271.2	3203.1	2711.3	1713.1
62.5°	1682.9	1831.3	1764.4	2266.6	2104.5	3136.9	3625.3	3490.7	3374.7	2952.5	1881.3
65°	1794.6	1947.6	1847.4	2386.5	2101.7	3146.6	3690.6	3603.6	3467.8	3015.4	1918.3
67.5°	1780.0	1929.3	1809.3	2338.9	1954.9	2865.5	3498.6	3390.2	3222.3	2772.7	1794.0
70°	1543.4	1633.5	1501.6	1992.1	1562.9	2216.5	2725.4	2662.8	2501.3	2122.5	1387.7
72.5°	1299.2	1321.5	1197.8	1559.3	1218.6	1614.8	2070.9	2004.0	1898.1	1575.2	1048.9
75°	1003.4	1003.4	932.6	1169.2	905.4	1146.0	1567.5	1550.4	1485.1	1182.0	796.4
77.5°	677.7	642.3	631.6	789.7	625.5	756.1	1091.3	1131.6	1114.5	846.2	580.6
80°	395.0	403.6	388.6	487.5	411.5	494.5	700.3	753.4	751.9	562.0	381.0
82.5°	308.0	314.1	298.5	351.1	314.1	389.2	490.9	487.5	499.1	407.2	286.6
85°	303.4	308.0	291.8	324.5	301.6	369.7	461.3	460.3	457.9	377.0	269.2
87.5°	276.0	282.1	268.0	294.3	273.5	337.6	419.1	424.0	417.0	353.5	258.9
90°	230.8	237.2	231.1	261.6	240.2	291.2	364.5	368.1	362.0	315.0	233.5
92.5°	207.6	211.9	204.5	231.1	208.5	255.8	322.1	324.2	314.7	277.2	202.1
95°	191.4	195.7	186.5	206.1	184.1	225.6	274.1	281.1	267.1	233.8	172.2
97.5°	159.0	156.3	152.6	169.4	152.3	177.7	209.7	214.9	206.1	181.3	137.1
100°	137.7	138.6	137.1	149.3	133.7	152.6	177.7	179.8	176.1	158.1	123.9
102.5°	133.4	133.7	136.5	144.7	126.7	140.4	161.8	163.0	162.1	145.0	114.5
105°	132.2	131.9	133.4	142.3	123.6	128.5	149.0	149.6	146.5	134.9	107.1
107.5°	124.9	125.8	125.5	133.4	121.5	122.1	135.2	134.9	134.3	123.6	101.3
110°	143.2	141.6	135.2	135.5	123.9	127.0	140.1	138.6	135.5	129.1	110.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	203.6	199.3	192.0	167.9	155.7	164.2	173.1	174.6	171.3	165.5	139.8
115°	225.9	225.3	217.0	201.2	160.9	163.9	169.7	172.2	176.1	164.8	143.2
117.5°	185.3	195.4	182.5	184.7	161.8	142.3	141.3	136.5	138.6	137.4	132.5
120°	233.8	235.7	209.7	204.8	189.0	195.4	195.7	196.3	189.9	159.0	140.1
122.5°	328.8	328.8	336.1	349.5	341.3	329.7	323.0	316.3	307.4	278.1	237.8
125°	417.0	416.4	412.4	419.1	410.9	415.5	417.6	419.4	410.0	374.3	319.3
127.5°	336.1	344.6	359.0	395.3	372.4	366.0	359.9	364.2	357.2	350.4	316.3
130°	260.4	261.3	284.8	308.0	306.2	285.7	278.7	266.5	269.2	268.3	247.9
132.5°	222.5	223.8	237.5	250.6	261.6	246.7	232.9	226.5	228.6	227.1	214.0
135°	194.5	194.5	189.6	188.0	197.2	210.9	209.4	201.2	197.2	192.6	173.1
137.5°	168.2	167.6	158.7	153.9	161.2	178.9	180.1	180.1	176.1	165.1	151.1
140°	138.6	137.7	133.1	134.0	135.8	147.7	148.7	151.4	150.8	141.9	124.9
142.5°	105.0	105.3	112.0	119.7	123.9	149.6	145.6	142.6	152.3	151.7	109.0
145°	140.1	137.1	137.1	133.7	143.8	169.1	161.2	163.6	176.4	164.5	117.8
147.5°	128.5	130.0	130.3	129.7	142.6	144.1	138.3	138.6	143.2	143.2	120.6
150°	99.5	97.1	97.7	98.9	112.3	111.4	106.2	105.9	109.6	108.7	98.6
152.5°	78.8	78.5	78.1	79.4	90.4	85.8	83.6	82.7	82.1	81.2	78.8
155°	74.2	73.9	73.3	74.8	81.2	79.1	77.8	77.8	76.3	74.8	73.3
157.5°	65.9	65.6	65.9	69.0	72.7	70.2	69.9	69.6	69.0	67.2	66.5
160°	61.7	61.4	62.0	64.4	65.9	63.8	63.2	63.5	63.2	62.3	63.5
162.5°	58.3	58.3	58.3	59.8	60.4	58.9	58.6	58.9	59.2	59.2	60.7
165°	56.5	56.5	56.8	57.7	57.7	57.1	56.5	56.5	58.0	58.6	59.8
167.5°	57.7	57.7	58.0	58.3	58.3	57.7	57.7	58.0	58.9	59.5	59.5
170°	59.5	59.5	59.5	59.8	59.5	58.6	58.6	58.6	58.9	58.9	59.2
172.5°	61.7	61.7	61.7	61.4	60.7	60.4	59.8	59.8	60.1	59.8	60.1
175°	64.7	64.4	64.4	64.1	63.8	63.5	63.2	62.9	62.9	62.0	62.0
177.5°	66.2	65.9	66.2	66.2	65.9	65.3	64.7	64.7	64.4	63.8	63.5
180°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
2.5°	25.6	24.7	22.3	20.1	18.6	18.0	18.0	17.1	15.9	15.0	14.7
5°	33.9	33.3	32.4	31.1	28.4	24.7	21.7	20.5	19.8	19.5	19.2
7.5°	47.9	48.5	49.8	49.5	44.3	34.5	28.7	28.4	31.7	35.4	36.6
10°	62.0	61.4	65.3	68.7	55.9	39.1	29.6	28.7	33.3	39.7	40.6
12.5°	74.2	71.1	69.0	65.3	53.4	39.1	31.7	29.9	32.1	36.9	36.9
15°	83.3	79.4	70.5	62.0	51.3	40.3	33.0	31.7	31.7	30.2	30.5
17.5°	90.4	83.0	70.2	59.2	47.6	38.5	32.7	29.3	27.5	25.0	24.4
20°	98.6	93.4	76.3	61.1	47.0	37.2	31.7	27.8	25.6	24.7	24.4
22.5°	107.5	96.8	80.3	61.7	47.0	37.9	31.4	27.2	25.3	24.7	24.7
25°	108.4	99.2	82.4	64.1	48.5	39.1	32.1	27.5	25.6	25.0	24.7
27.5°	107.1	100.7	86.1	66.9	50.1	40.3	33.3	28.1	25.6	24.7	24.4
30°	111.7	106.5	90.4	68.7	51.6	41.8	34.5	29.3	26.3	24.4	24.1
32.5°	123.3	116.0	96.2	69.9	52.2	42.1	35.7	30.5	26.9	24.7	24.4
35°	153.9	147.1	118.4	74.2	52.2	42.7	36.6	31.4	27.5	25.0	24.7
37.5°	198.1	185.6	145.6	88.5	52.8	44.0	37.5	32.7	28.4	25.6	25.0
40°	210.0	177.4	123.6	79.4	54.0	45.2	39.1	33.9	29.6	26.6	26.3
42.5°	272.6	226.8	152.6	83.9	57.7	46.1	40.0	35.1	30.5	27.5	26.9
45°	291.8	227.1	155.1	97.1	67.8	50.1	41.5	36.0	31.1	28.1	27.8
47.5°	382.5	281.8	158.1	104.1	76.0	57.7	45.2	37.2	31.7	28.7	28.4
50°	560.8	397.5	196.3	130.0	94.0	70.5	53.1	39.7	32.4	29.6	29.0
52.5°	699.7	476.8	212.8	159.0	124.9	93.1	66.9	46.1	34.2	30.2	29.6
55°	852.9	585.8	241.8	191.7	151.4	116.6	84.9	55.6	37.9	31.1	30.5
57.5°	1063.8	699.4	283.9	226.2	183.8	136.1	96.8	65.0	42.7	33.3	32.1
60°	1192.0	747.6	290.6	244.8	203.0	151.7	102.0	69.0	47.9	36.3	34.5
62.5°	1314.8	780.9	292.4	252.1	207.6	154.8	102.6	67.2	49.8	40.6	38.2
65°	*1339.8*	*747.9*	*293.1*	*253.7*	*202.1*	*146.8*	*99.2*	*65.3*	*47.6*	*44.3*	*44.6*
67.5°	1255.2	664.3	271.7	242.7	187.4	131.0	89.1	62.6	47.0	43.7	44.6
70°	986.9	520.5	248.2	225.0	159.0	111.4	79.4	58.9	47.0	42.1	41.2
72.5°	766.2	444.8	254.3	213.7	136.1	99.5	71.7	54.9	45.5	41.8	41.2
75°	594.7	371.2	250.6	188.0	111.1	85.5	64.4	50.4	43.3	41.2	40.9
77.5°	434.7	292.7	207.3	144.1	92.2	72.7	56.8	47.3	42.1	40.3	40.0
80°	279.6	204.8	144.4	115.1	80.9	66.2	53.1	45.2	41.5	40.3	40.0
82.5°	235.7	185.9	130.0	109.0	78.1	67.5	55.6	47.3	43.7	42.4	42.1
85°	226.8	191.4	133.7	113.6	74.8	64.4	54.3	47.3	44.0	42.4	42.1
87.5°	215.5	173.1	131.9	104.4	72.0	62.0	53.4	48.5	45.2	44.3	44.0
90°	195.1	152.6	120.9	97.1	76.0	65.9	58.9	53.7	50.4	48.2	47.6
92.5°	164.5	122.7	103.8	95.9	83.3	74.8	67.8	63.2	59.5	57.4	56.5
95°	138.6	107.1	90.4	84.9	73.6	67.2	60.4	57.1	54.3	52.5	52.5
97.5°	112.9	91.9	83.9	79.7	70.5	63.5	58.0	54.6	53.7	53.1	52.8
100°	106.2	90.1	84.6	80.9	73.6	67.2	62.9	59.8	59.5	59.2	59.2
102.5°	98.6	85.2	79.1	75.4	68.1	62.6	59.5	57.1	56.2	55.3	54.3
105°	93.1	80.6	76.0	71.1	65.3	59.8	56.8	53.1	52.5	52.2	52.2
107.5°	90.4	80.0	77.5	69.9	64.4	62.0	58.3	53.7	52.8	51.6	51.6
110°	99.8	88.8	81.8	72.3	66.5	64.4	63.5	59.5	56.5	52.8	52.5

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

Scaled Data Report

REPORT NUMBER: P1046567
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	123.6	108.7	100.4	86.4	74.5	69.3	65.3	61.1	59.2	56.8	55.9
115°	133.1	117.8	107.5	93.4	79.7	70.5	64.7	64.1	62.3	60.7	62.3
117.5°	136.5	107.1	88.5	85.2	74.8	67.5	64.7	63.8	64.4	64.4	61.7
120°	147.1	115.7	108.7	104.4	84.9	73.0	66.9	69.9	69.3	65.6	65.6
122.5°	219.5	196.0	172.8	144.1	119.7	105.6	84.9	71.1	68.4	65.9	64.4
125°	289.1	268.0	231.7	193.5	151.4	112.0	84.3	74.5	69.3	66.2	66.9
127.5°	294.6	272.3	230.8	184.1	135.2	104.7	84.9	76.3	70.5	67.2	66.5
130°	230.2	214.3	183.2	149.0	114.8	93.7	78.5	69.9	64.7	61.7	61.1
132.5°	203.6	190.2	157.8	127.9	104.7	87.0	73.9	64.4	60.7	58.6	58.3
135°	162.7	151.4	129.7	113.6	97.4	82.7	69.6	60.7	57.4	57.1	56.5
137.5°	142.6	133.4	116.6	103.2	89.7	75.7	64.7	57.4	55.9	56.2	55.3
140°	116.3	112.3	102.9	91.3	76.9	62.3	54.6	52.2	54.6	55.9	55.9
142.5°	99.8	94.6	83.9	70.5	61.4	54.6	53.7	52.8	54.0	54.6	54.6
145°	91.9	85.8	76.9	72.0	67.8	62.0	57.1	52.8	51.6	51.9	51.9
147.5°	103.8	96.8	91.0	81.8	71.4	61.7	54.3	49.5	49.5	50.7	51.0
150°	86.1	80.0	76.0	70.8	62.9	54.9	49.8	47.3	48.2	50.7	51.0
152.5°	72.0	64.7	62.3	59.2	54.9	50.7	48.2	47.0	48.5	50.4	50.4
155°	70.2	63.8	60.7	57.7	53.7	50.1	47.9	47.3	48.8	50.1	50.4
157.5°	65.9	62.3	58.3	55.9	52.8	50.1	48.5	47.9	49.1	50.1	50.4
160°	63.5	61.4	56.8	54.6	51.9	50.1	49.8	49.8	50.4	50.7	50.7
162.5°	60.7	59.5	56.8	54.9	53.1	52.2	52.8	53.1	53.1	52.8	52.8
165°	59.8	59.2	56.8	55.3	54.3	54.6	55.9	56.2	55.3	54.6	54.6
167.5°	59.5	59.5	57.7	56.5	56.2	56.8	58.0	58.0	57.1	55.9	55.6
170°	59.5	59.8	59.2	59.2	58.6	58.9	59.2	59.2	58.6	58.0	57.7
172.5°	60.4	60.4	60.4	60.4	60.1	60.4	60.7	60.7	60.7	60.4	60.4
175°	62.0	62.0	62.0	61.7	61.4	61.4	61.7	62.0	62.3	62.3	62.3
177.5°	63.5	63.2	62.9	63.2	62.9	62.9	63.5	63.8	64.1	64.1	64.1
180°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8

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: SP1-2501-332-9

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

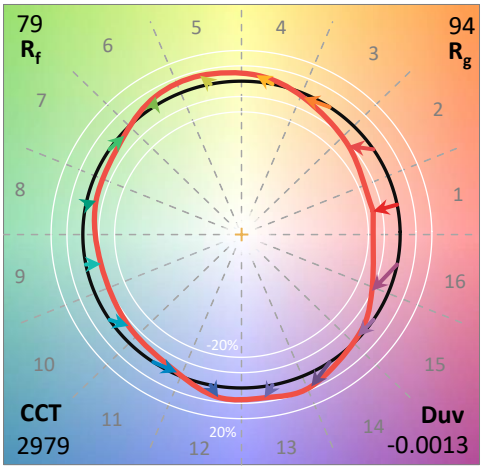
Test Information

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

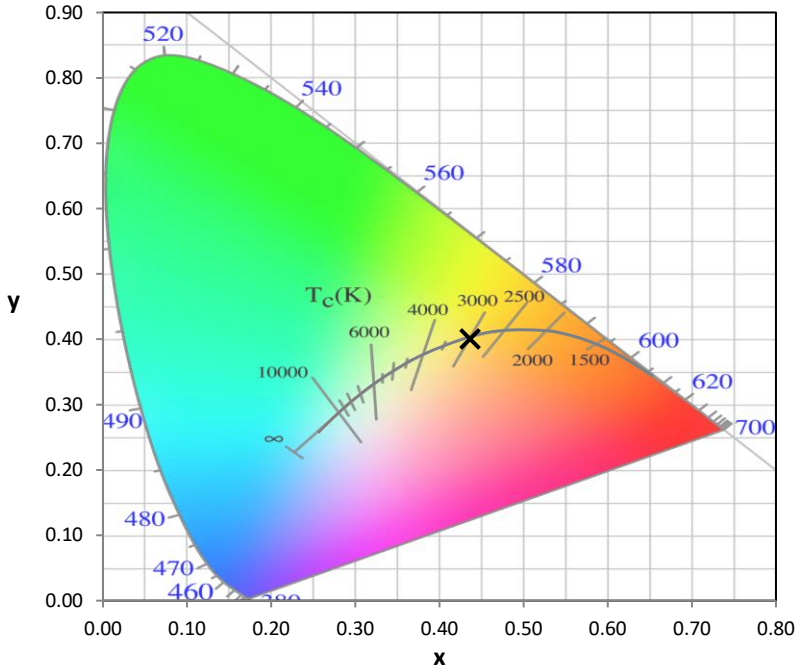
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

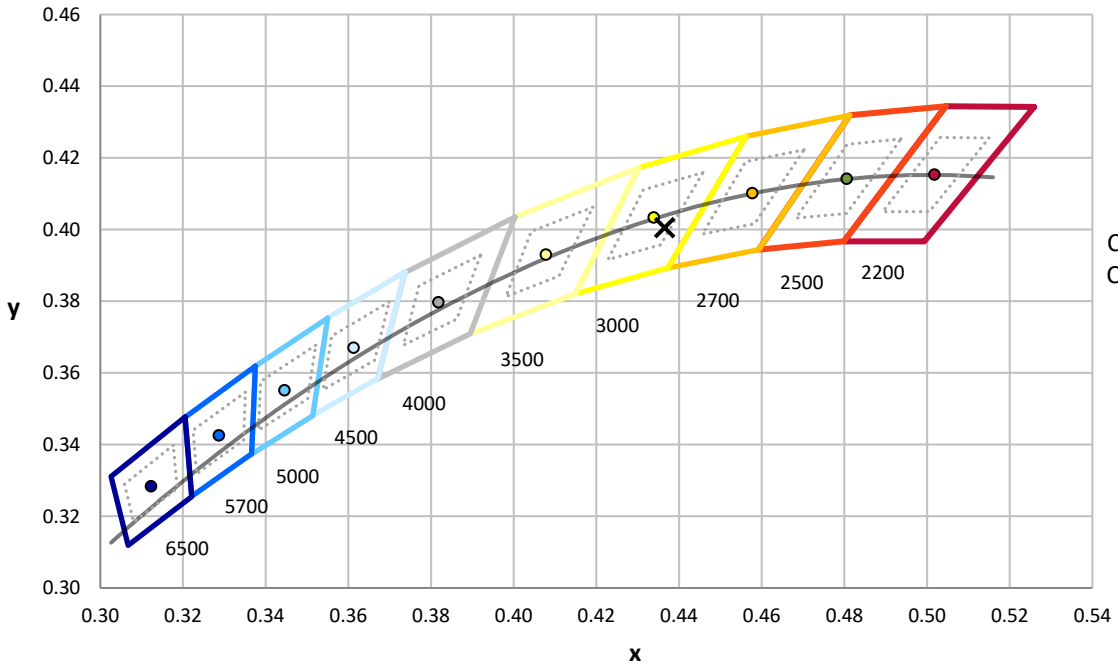
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

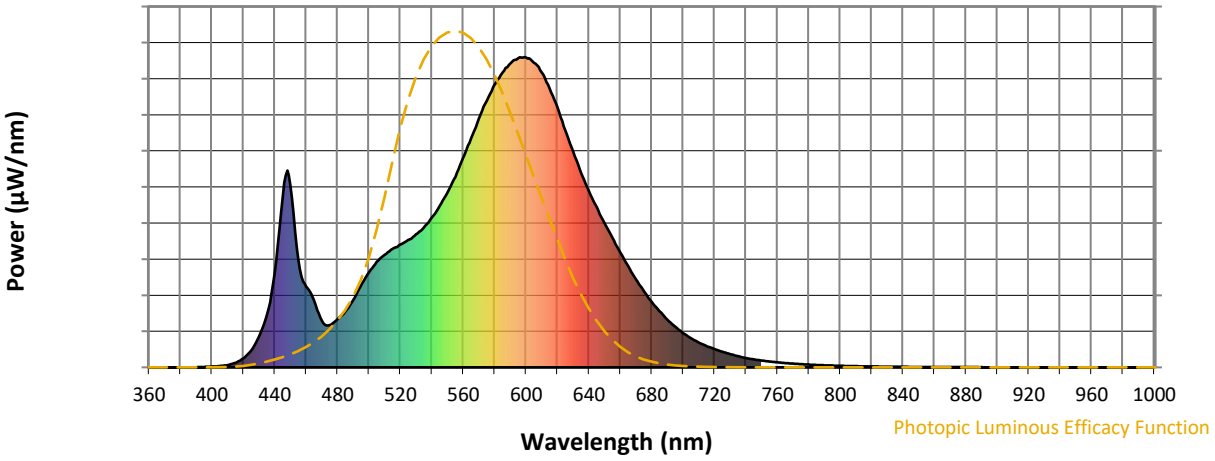


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

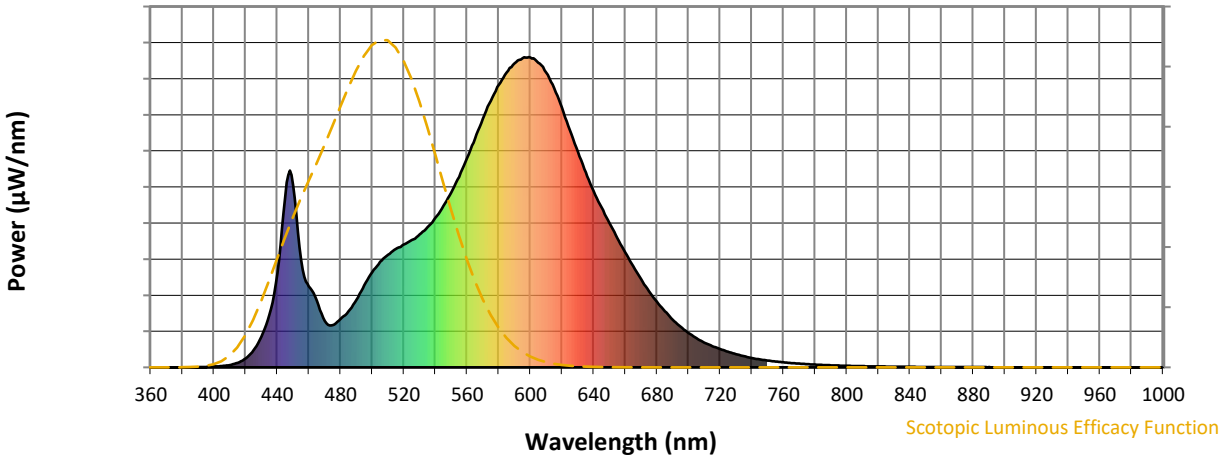


Photopic Lumens: NR

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

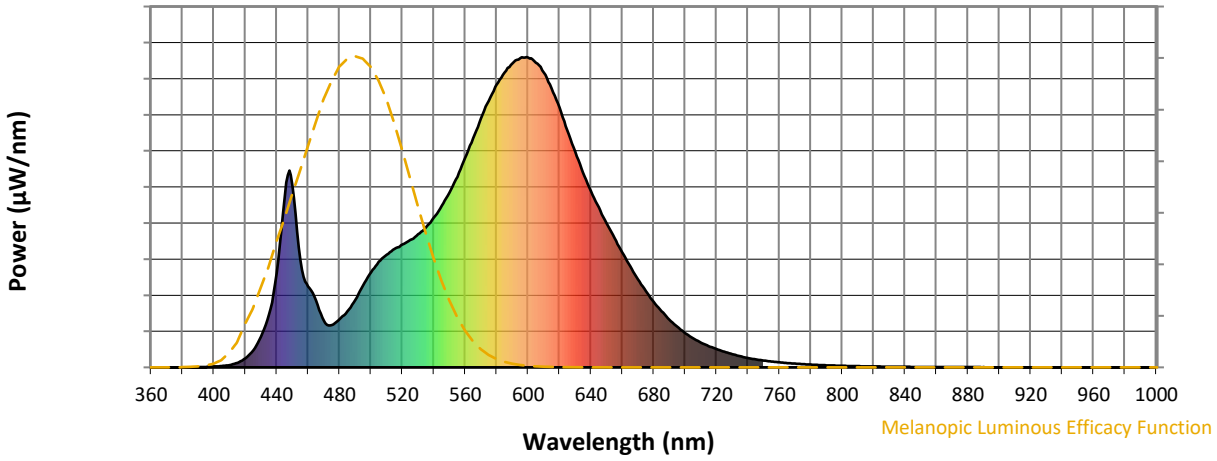


Scotopic Lumens: NR **S/P: 1.29**

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			

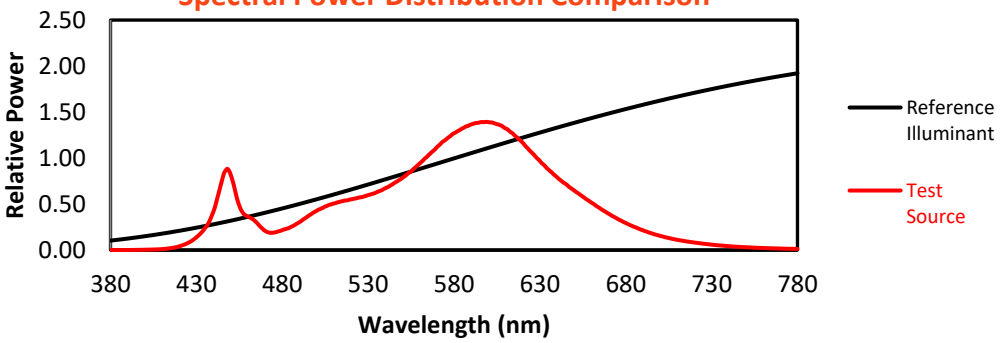
REPORT NUMBER: SP1-2501-332-9

TM-30-18

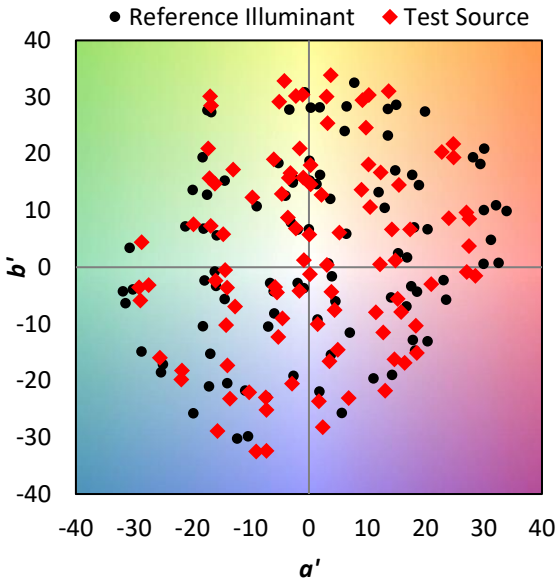
Summary

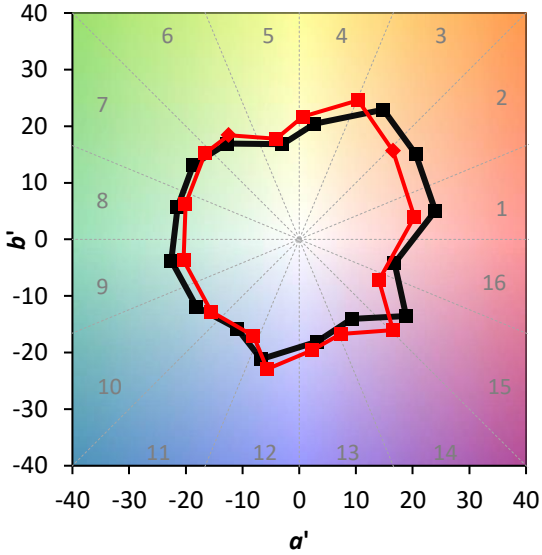
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

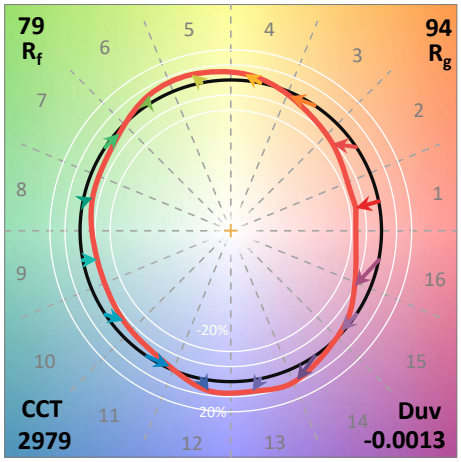
Spectral Power Distribution Comparison

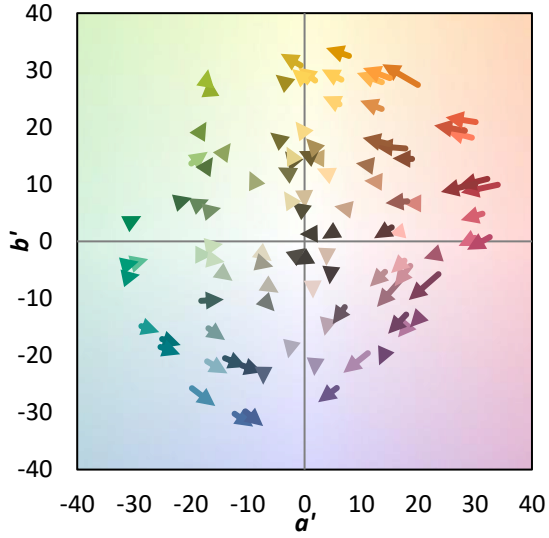


Color Vector Graphics







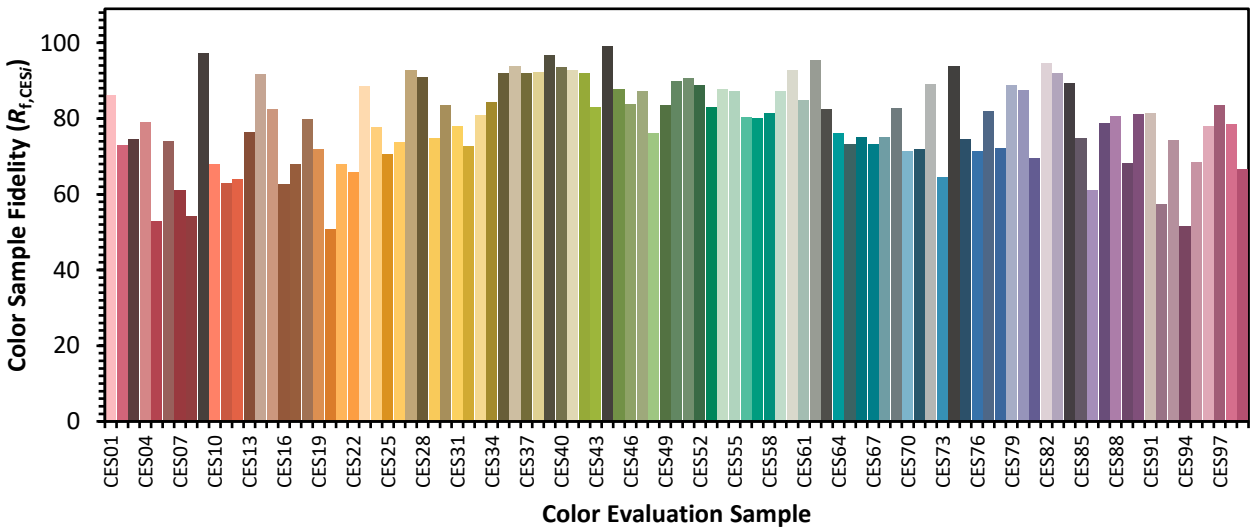


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

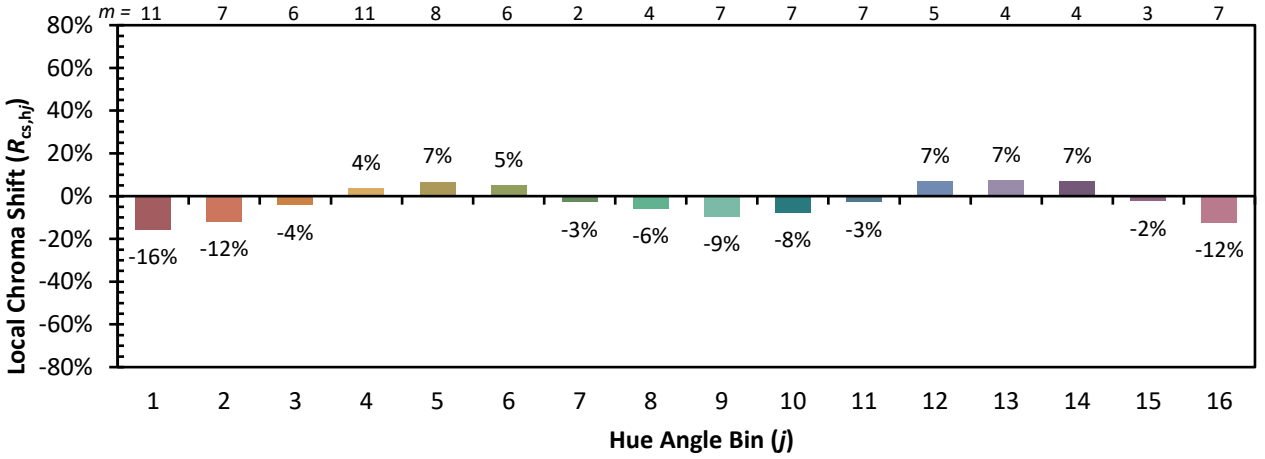
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 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
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CES25 = 72	CES50 = 90	CES75 = 75	

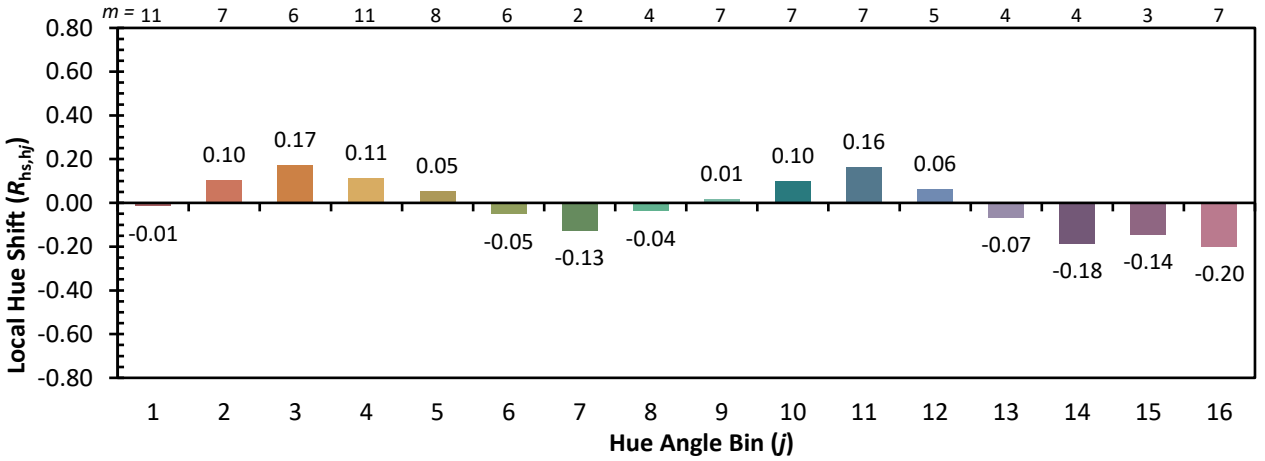


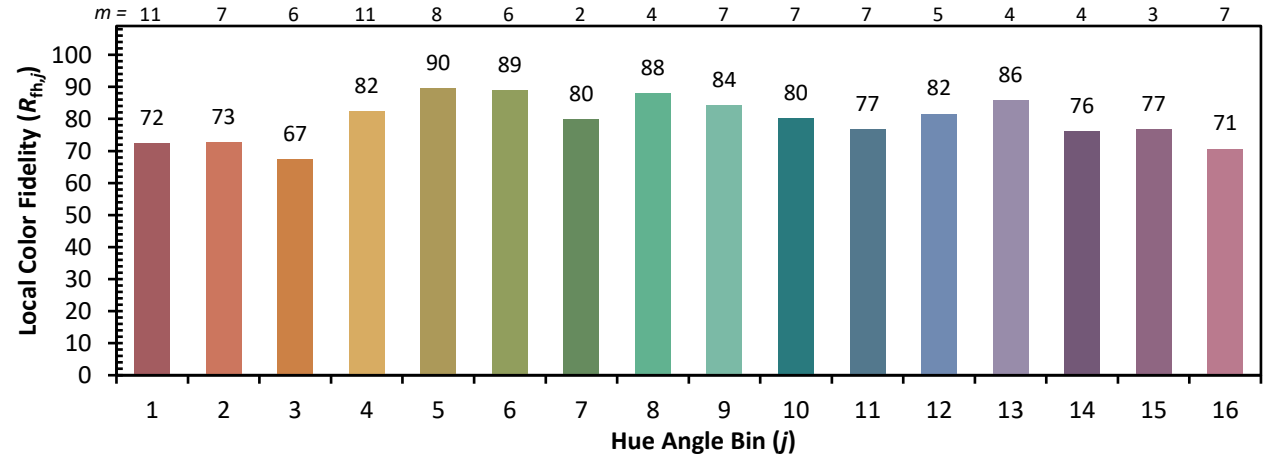
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Color Rendition by Hue-Angle Bin



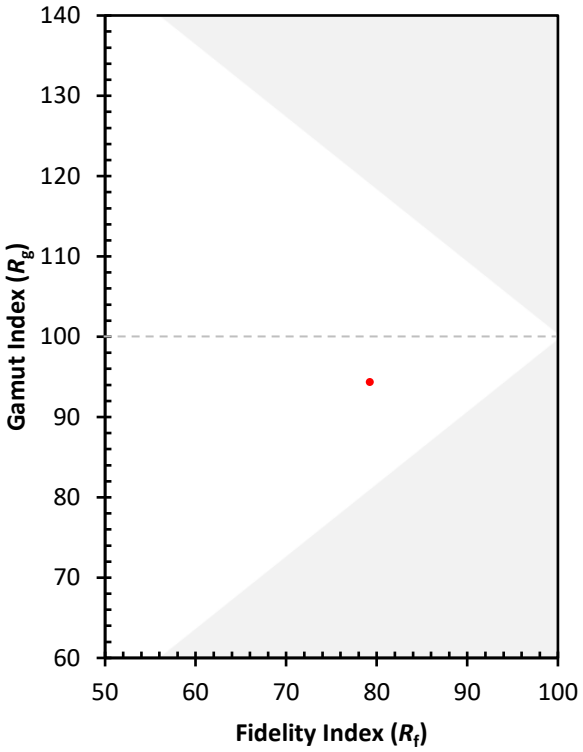


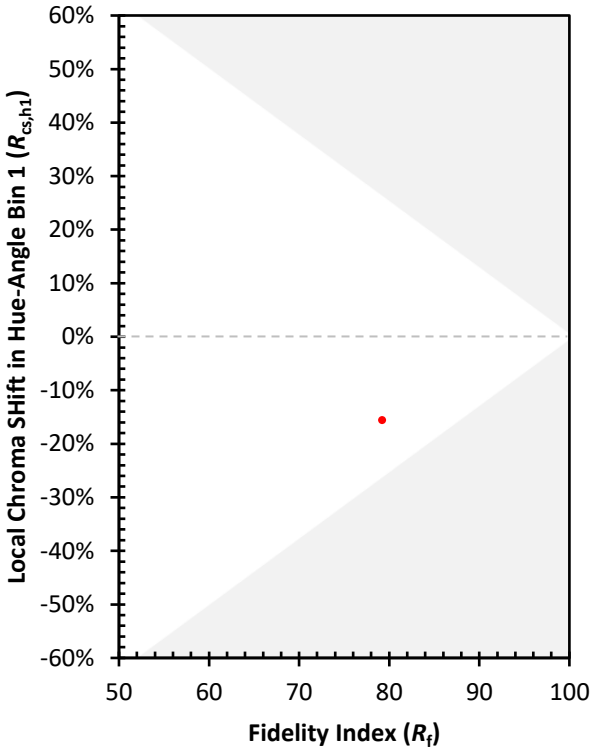


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Measure Comparisons





(END OF REPORT)