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: P1045802

Luminaire Tested: **FFX-CLB-30-730-U-FR-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:	P1045802
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-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3254 lumens
Efficiency:	N/A
Efficacy:	106.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - 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

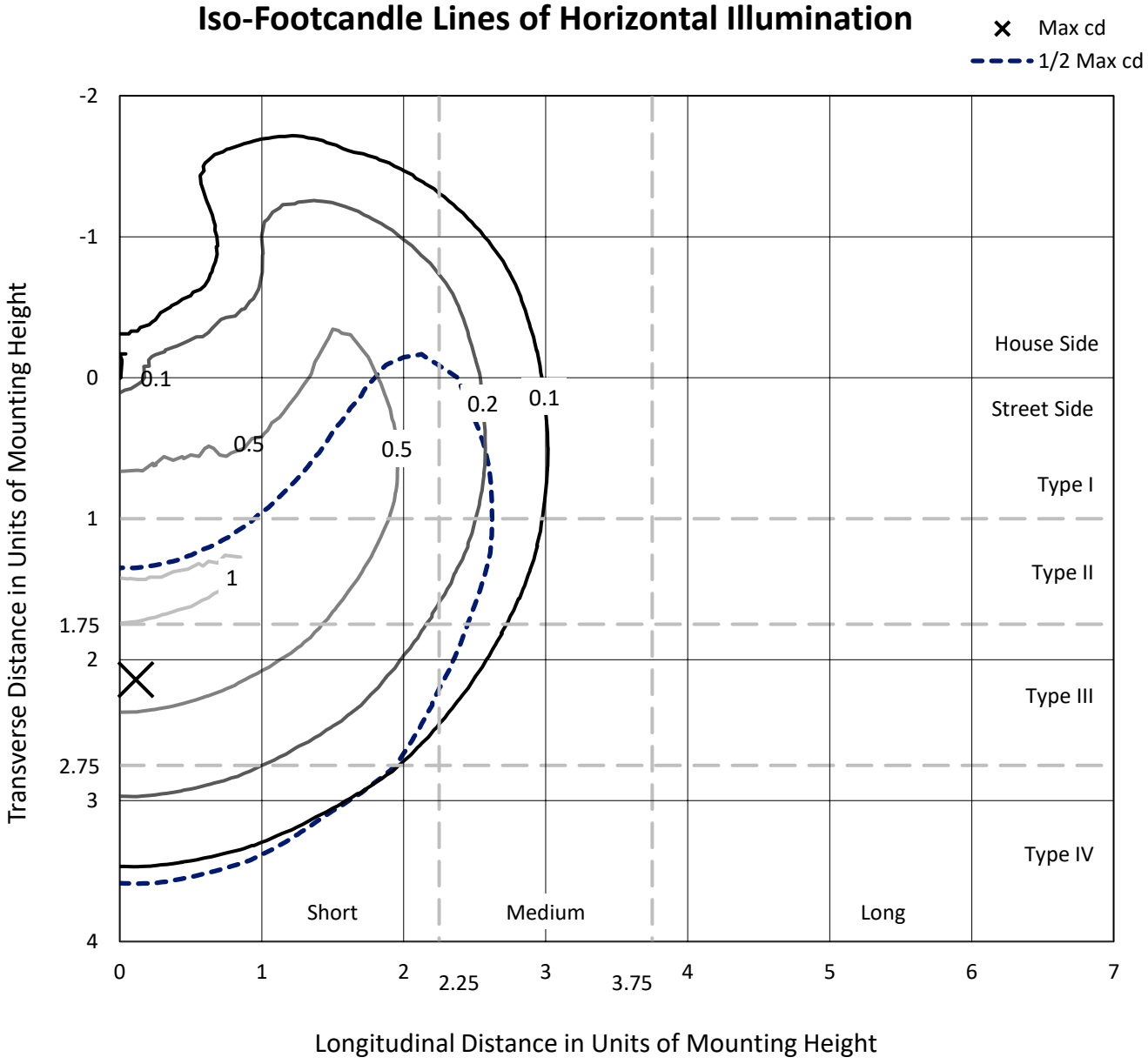


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Iso-Footcandle Lines of Horizontal Illumination



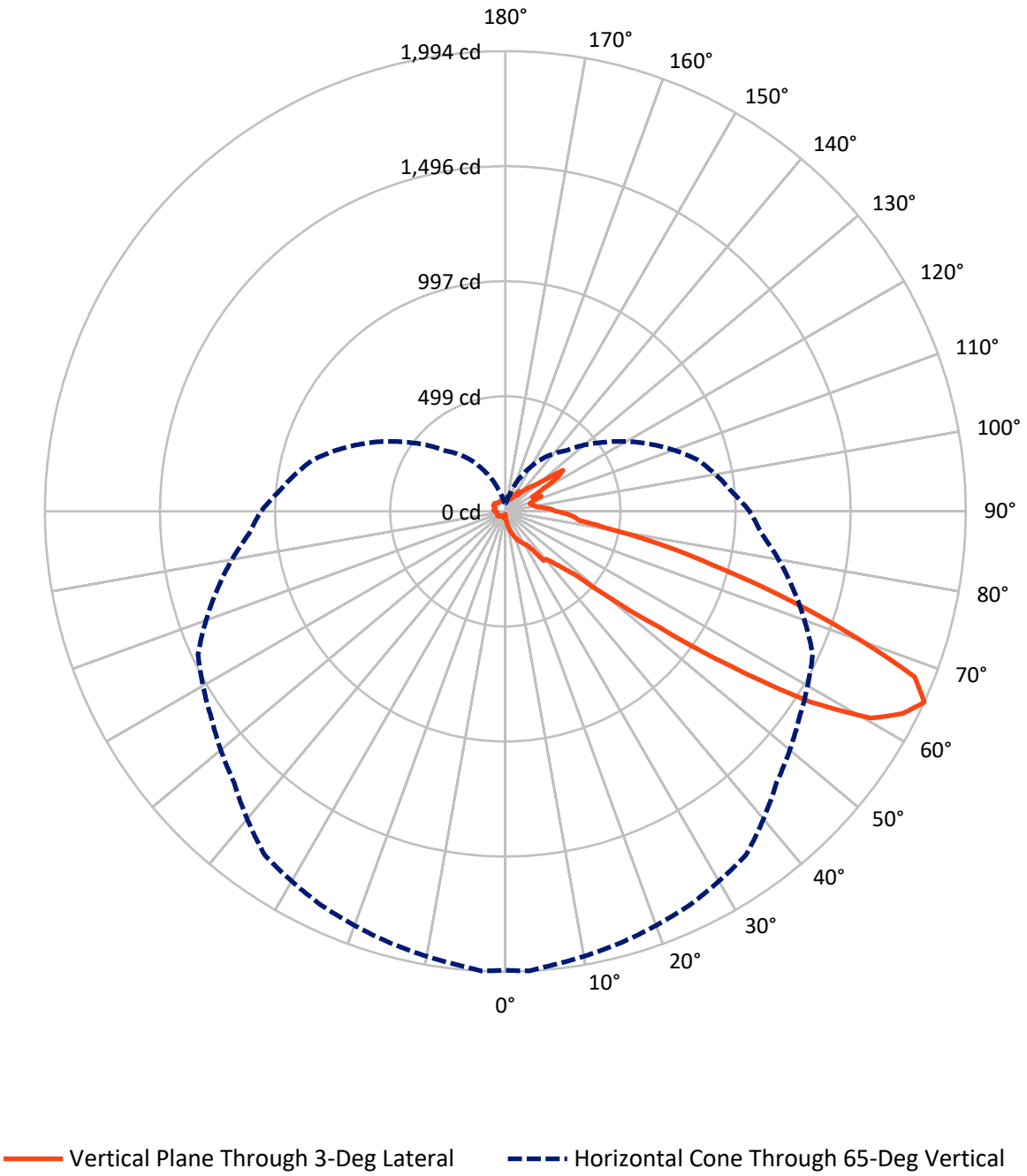
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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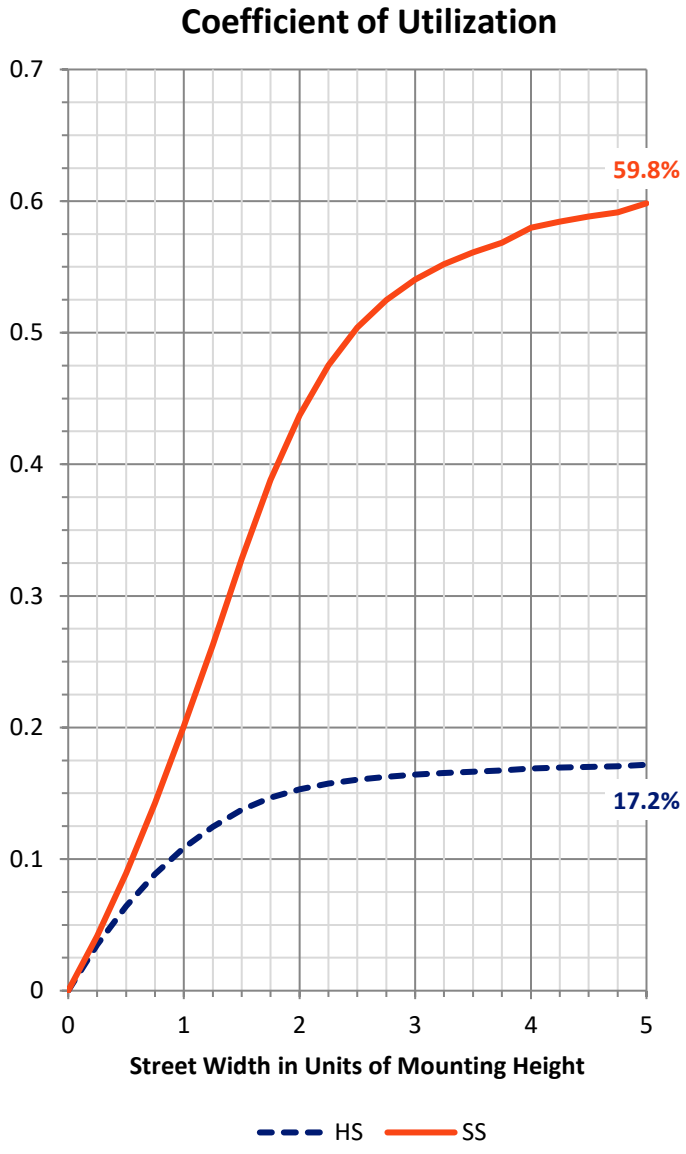
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	580.1	225.8	805.9
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	2027.9	420.2	2448.1
	% Fixture	62.3	12.9	75.2
Total	Lumens	2608.0	646.1	3254.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	18.4	0.6
20°-30°	40.6	1.2
30°-40°	81.0	2.5
40°-50°	174.9	5.4
50°-60°	598.0	18.4
60°-70°	971.8	29.9
70°-80°	522.9	16.1
80°-90°	197.0	6.1
90°-100°	124.3	3.8
100°-110°	88.3	2.7
110°-120°	97.5	3.0
120°-130°	149.0	4.6
130°-140°	89.3	2.7
140°-150°	49.3	1.5
150°-160°	27.5	0.8
160°-170°	15.2	0.5
170°-180°	5.6	0.2
0°-90°	2608.0	80.1
0°-180°	3254.0	100.0



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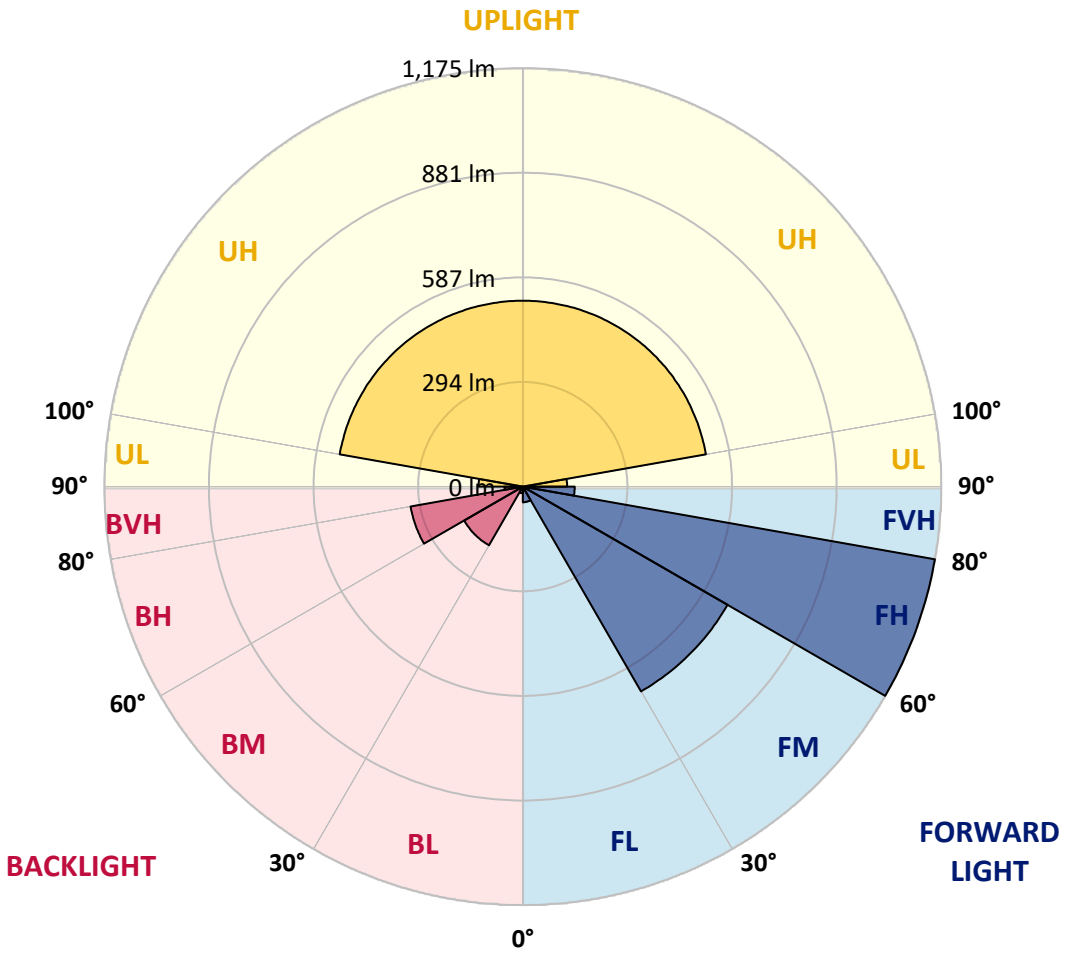
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	43.9	1.3			
FM	(30°-60°)	663.7	20.4			
FH	(60°-80°)	1174.7	36.1			G1/1800
FVH	(80°-90°)	145.6	4.5			G2/225
BL	(0°-30°)	18.5	0.6	B0/110		
BM	(30°-60°)	190.2	5.8	B0/220		
BH	(60°-80°)	320.0	9.8	B1/500		G1/500
BVH	(80°-90°)	51.4	1.6			G1/100
UL	(90°-100°)	124.3	3.8		U3/500	
UH	(100°-180°)	521.8	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	25.9	26.2	26.2	26.2	27.0	27.3	27.0	25.9	24.4	23.7	23.0
5°	37.5	38.3	37.9	37.9	37.2	37.2	36.1	35.4	34.6	32.1	29.5
7.5°	52.1	51.4	51.0	50.3	50.7	48.8	47.4	47.4	46.3	43.7	39.7
10°	67.4	67.4	66.3	66.0	65.2	64.5	62.0	60.5	60.5	56.1	51.4
12.5°	84.2	83.8	84.2	83.5	82.4	80.6	77.6	74.4	72.5	68.5	61.6
15°	95.1	94.8	94.8	94.4	93.7	91.9	89.7	86.4	81.7	77.6	71.1
17.5°	106.8	106.1	106.1	104.3	102.8	100.6	98.8	95.5	89.7	82.4	76.2
20°	119.6	119.6	119.6	117.0	114.1	111.2	108.6	105.7	101.3	90.4	81.7
22.5°	131.6	132.0	131.6	129.0	126.5	121.7	117.7	114.1	109.7	98.8	88.2
25°	143.3	144.0	143.6	143.6	140.3	134.1	128.7	123.2	120.3	109.4	94.8
27.5°	153.5	153.8	154.2	156.0	154.2	147.3	138.5	132.0	129.8	117.7	100.2
30°	163.3	164.4	164.4	166.2	165.9	158.2	147.6	140.3	136.0	124.3	105.7
32.5°	172.8	173.5	173.9	178.2	177.9	167.7	158.6	150.5	143.3	134.5	115.2
35°	207.0	205.9	211.4	214.7	212.1	203.0	192.1	177.2	166.9	156.7	136.0
37.5°	270.8	270.1	270.1	262.8	252.6	242.0	239.1	223.4	211.1	197.9	169.5
40°	272.7	272.7	273.7	281.8	286.9	273.4	260.6	245.3	242.8	229.3	194.6
42.5°	299.3	302.2	305.1	310.6	319.7	310.9	296.3	271.9	260.3	246.4	216.9
45°	344.5	348.8	347.4	349.6	347.4	339.7	338.6	325.1	307.6	281.0	241.3
47.5°	419.2	416.6	415.2	423.9	438.1	423.9	420.6	399.1	365.6	331.7	286.5
50°	602.9	592.0	603.3	601.4	598.9	585.8	575.9	554.4	499.7	444.7	379.5
52.5°	848.9	831.1	841.3	848.2	840.9	822.3	792.8	750.9	677.3	606.2	520.2
55°	1206.5	1181.7	1185.0	1193.8	1198.9	1156.6	1114.3	1021.7	911.3	801.6	708.2
57.5°	1601.3	1556.8	1586.0	1537.1	1517.1	1441.6	1405.9	1312.2	1182.5	1035.9	885.4
60°	1823.7	1818.9	1813.4	1775.5	1754.4	1669.8	1586.0	1498.1	1381.9	1208.7	1032.7
62.5°	1920.2	1930.5	1922.4	1902.7	1883.8	1809.4	1663.6	1559.4	1465.0	1287.1	1111.4
65°	1988.4	1994.2	1980.8	1935.2	1883.8	1817.5	1661.8	1555.4	1469.0	1289.6	1114.7
67.5°	1910.4	1911.5	1895.1	1836.0	1731.8	1673.5	1522.6	1429.6	1345.0	1192.0	1028.3
70°	1573.6	1576.9	1566.7	1514.2	1426.7	1376.0	1230.6	1135.1	1071.3	965.6	844.9
72.5°	1226.6	1240.8	1226.2	1205.4	1122.3	1084.8	987.1	909.8	851.1	751.6	654.3
75°	922.2	925.5	925.9	902.5	858.8	850.4	783.3	732.3	681.3	599.6	528.2
77.5°	668.9	683.5	678.4	674.3	617.1	620.4	593.8	563.5	531.5	477.1	426.1
80°	444.0	451.6	442.5	444.7	437.0	435.2	410.4	390.0	370.3	345.2	325.1
82.5°	323.7	322.2	321.5	317.5	311.7	312.8	300.4	275.2	251.5	246.4	227.8
85°	299.3	298.2	297.1	289.8	277.4	269.7	262.8	252.6	238.0	215.1	191.0
87.5°	261.7	262.1	259.5	251.9	243.9	241.7	236.2	229.6	222.4	205.2	184.1
90°	215.4	214.3	214.7	210.3	211.8	211.1	202.7	194.6	191.7	177.2	164.8
92.5°	199.0	197.9	198.3	195.0	189.9	188.8	179.7	169.9	165.5	156.4	146.9
95°	166.2	166.2	164.8	163.3	160.7	157.1	152.4	145.8	142.5	135.2	125.8
97.5°	139.6	138.1	139.2	136.7	134.5	133.0	129.4	122.8	119.6	114.1	106.8
100°	129.8	129.8	129.4	128.3	122.8	119.9	115.9	109.7	107.2	102.4	97.0
102.5°	124.3	123.9	123.6	122.5	117.4	112.3	107.2	103.5	100.6	96.6	90.8
105°	113.7	113.7	114.5	114.1	110.4	107.2	101.7	98.4	95.5	91.5	86.0
107.5°	112.6	112.3	112.3	107.9	103.2	101.3	97.3	94.4	91.9	87.8	81.7
110°	129.0	129.8	130.9	123.6	112.3	107.5	101.7	98.4	95.5	90.4	83.8

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	169.1	*169.1*	168.4	164.4	144.7	131.6	128.7	120.3	115.6	107.9	98.8
115°	152.0	*152.4*	152.0	153.1	151.6	135.2	138.1	124.3	132.3	114.5	108.3
117.5°	132.7	*132.3*	130.9	131.2	132.7	143.3	120.3	117.0	120.3	104.3	98.8
120°	185.2	*181.9*	185.2	171.7	169.5	171.3	158.2	155.6	141.8	122.5	107.9
122.5°	272.7	*267.6*	274.8	270.1	273.7	261.7	249.0	238.4	223.1	190.6	161.5
125°	308.0	*306.9*	305.1	298.5	292.7	287.6	289.8	293.8	285.4	259.2	225.3
127.5°	226.7	*229.6*	228.5	241.7	254.4	251.5	243.9	247.5	251.9	250.4	230.4
130°	180.8	*183.3*	184.8	197.6	208.5	208.5	196.1	192.8	196.5	204.1	196.5
132.5°	158.6	*159.3*	160.0	164.4	173.5	177.9	170.2	165.1	166.6	170.6	164.0
135°	142.9	*142.5*	141.4	138.5	139.2	143.6	146.9	146.2	145.1	145.1	141.4
137.5°	123.9	*123.6*	123.6	119.2	117.4	121.0	125.8	130.1	127.2	123.2	118.8
140°	103.2	*102.8*	103.2	105.7	106.4	106.8	109.4	109.4	109.4	109.0	107.2
142.5°	85.7	*86.0*	86.8	93.3	96.6	96.6	93.3	90.4	90.0	92.2	92.6
145°	105.3	*105.3*	105.7	105.3	103.2	101.0	98.8	98.8	96.6	91.5	88.9
147.5°	94.0	*95.5*	94.4	95.5	96.2	96.6	96.2	97.3	97.7	94.8	90.8
150°	74.0	*73.6*	72.9	74.0	75.8	78.0	78.7	79.5	79.8	79.8	79.8
152.5°	64.2	*64.5*	64.2	65.2	66.3	66.7	67.8	67.8	68.2	67.8	67.1
155°	62.3	*62.3*	62.3	62.3	62.7	63.4	64.9	65.6	64.9	63.8	62.0
157.5°	58.0	*58.0*	58.0	58.3	59.1	59.8	60.9	61.6	61.6	60.9	59.4
160°	55.4	*55.4*	55.4	55.4	56.1	56.9	57.6	58.3	58.3	58.0	56.9
162.5°	52.5	*52.5*	52.5	52.9	53.6	54.3	55.0	55.8	55.4	55.4	54.7
165°	52.1	*52.1*	52.1	52.5	53.2	54.3	54.7	54.7	55.0	55.0	55.0
167.5°	53.6	*53.6*	53.9	53.9	54.7	55.0	55.8	56.1	56.5	56.1	56.1
170°	55.8	*55.8*	55.8	56.1	56.5	56.5	56.9	56.9	57.2	57.2	57.2
172.5°	58.7	*58.7*	58.7	58.7	58.3	58.3	58.3	58.3	58.7	58.3	58.7
175°	62.0	*62.0*	62.0	61.6	61.2	61.2	60.9	60.9	60.5	60.1	60.1
177.5°	62.3	*62.3*	62.3	62.3	62.0	61.6	61.6	61.2	60.9	60.9	60.9
180°	60.9	*60.9*	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	22.2	21.5	19.7	18.2	17.1	15.7	14.6	13.5	12.8	12.4	12.0
5°	29.2	27.7	25.5	23.3	21.5	19.0	17.5	14.9	13.1	12.4	12.0
7.5°	38.3	37.2	36.1	35.7	35.0	31.7	27.0	23.3	22.6	21.9	22.6
10°	48.8	46.7	43.4	45.2	45.2	39.0	32.4	28.8	28.4	29.9	30.3
12.5°	58.7	55.8	51.8	51.4	47.4	39.0	32.1	28.4	28.1	28.4	28.8
15°	67.8	64.5	60.1	56.5	50.3	41.6	33.5	28.8	27.7	28.8	28.8
17.5°	72.9	69.6	63.4	56.5	49.2	41.2	33.2	28.1	25.5	24.1	24.1
20°	79.1	76.5	68.2	59.4	49.6	40.8	32.8	27.3	24.4	23.0	22.6
22.5°	84.6	81.7	72.5	63.1	51.8	40.8	31.7	27.0	24.4	23.0	22.6
25°	91.1	86.8	77.6	67.1	53.6	40.8	31.7	27.3	24.8	23.3	23.0
27.5°	95.5	90.4	81.7	70.0	55.8	41.6	32.8	27.7	24.8	23.3	23.3
30°	99.9	95.1	84.9	74.0	58.3	43.4	34.6	29.2	25.9	24.1	24.1
32.5°	108.6	102.4	90.0	77.3	60.5	44.8	36.5	30.6	27.0	25.2	25.2
35°	128.3	119.6	104.6	86.8	63.4	46.3	38.3	32.4	27.7	25.5	25.5
37.5°	158.2	147.3	129.0	104.6	70.7	48.5	39.7	33.2	28.4	26.6	26.2
40°	177.9	164.4	142.5	118.8	81.3	52.1	41.6	34.3	29.2	27.0	26.6
42.5°	201.6	185.2	156.0	123.2	86.8	59.8	45.2	36.1	30.3	27.3	27.0
45°	223.1	209.2	181.9	144.0	102.4	71.1	51.8	39.4	32.1	28.4	28.1
47.5°	266.8	245.3	208.9	169.9	122.1	88.2	63.1	44.5	35.0	29.9	29.2
50°	352.1	329.9	285.8	225.3	157.8	112.3	81.3	53.9	38.6	31.3	30.3
52.5°	478.2	437.4	388.2	306.6	223.8	162.2	115.2	76.2	45.9	32.8	31.0
55°	647.0	623.7	536.6	432.7	318.9	242.8	177.2	118.5	68.5	34.6	31.3
57.5°	840.6	794.3	714.8	585.4	426.5	309.1	239.5	176.4	101.0	40.5	33.2
60°	965.2	917.1	826.0	695.1	519.1	368.5	273.0	196.5	114.5	41.6	34.6
62.5°	1045.8	978.3	862.8	709.7	546.0	392.9	288.3	186.6	97.7	40.5	35.7
65°	*1058.2*	*984.9*	*862.8*	*689.7*	*521.6*	*372.9*	*278.9*	*172.4*	*76.9*	*38.6*	*37.2*
67.5°	984.9	905.4	804.1	632.4	468.0	319.7	239.5	140.7	58.3	37.5	36.8
70°	797.6	747.6	655.4	515.4	373.6	261.7	190.6	107.9	47.4	36.5	36.1
72.5°	609.5	573.4	508.9	401.7	288.0	201.9	145.4	84.9	42.6	35.7	35.4
75°	485.2	452.4	399.9	309.5	219.8	155.6	108.6	65.2	39.0	35.7	35.0
77.5°	400.2	371.4	324.1	245.3	160.4	116.3	82.4	52.9	38.3	35.7	35.4
80°	308.0	287.2	251.9	178.2	114.8	87.1	65.6	47.0	38.3	36.5	36.1
82.5°	218.3	210.3	183.7	138.9	96.6	75.8	60.5	46.3	39.0	37.2	36.8
85°	181.5	172.0	153.1	121.0	90.0	73.3	59.8	47.4	40.8	39.4	39.0
87.5°	175.0	168.8	150.2	117.0	86.4	70.0	57.2	46.3	40.8	40.1	40.5
90°	158.2	151.3	137.1	109.0	82.7	69.6	58.3	48.1	42.3	41.6	41.2
92.5°	143.6	139.6	127.2	105.3	85.3	72.2	61.6	52.5	47.8	46.3	46.3
95°	122.8	118.8	111.9	96.6	81.3	70.7	61.6	53.6	49.6	48.8	48.5
97.5°	104.6	102.1	96.2	84.2	72.2	63.4	55.4	49.2	45.9	44.8	44.8
100°	95.5	93.3	88.6	80.6	71.4	64.2	57.6	52.1	49.2	48.5	48.5
102.5°	88.9	87.1	82.7	76.9	68.9	63.1	57.6	52.9	49.6	48.8	49.2
105°	83.5	81.7	77.3	71.4	64.9	58.7	54.7	51.0	47.4	46.3	46.3
107.5°	79.5	77.6	74.0	68.2	62.7	57.2	52.9	49.9	47.0	46.3	46.3
110°	81.3	78.7	73.3	67.1	62.3	57.6	53.9	51.0	48.8	47.8	47.8

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

Scaled Data Report

REPORT NUMBER: P1045802
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	95.1	91.1	82.0	73.3	67.1	61.6	57.6	53.6	51.8	50.3	50.3
115°	104.3	100.2	91.1	80.6	71.4	63.8	58.3	55.0	52.9	54.3	53.6
117.5°	95.1	92.2	85.3	77.6	70.4	63.8	59.1	56.9	55.4	57.2	58.0
120°	104.6	99.1	93.7	84.9	71.4	62.3	59.1	58.3	58.3	56.9	56.9
122.5°	149.4	140.3	119.9	105.0	86.4	76.2	70.0	64.2	58.3	56.1	55.8
125°	209.2	192.1	166.2	140.0	114.5	93.0	75.1	64.2	58.7	55.4	54.7
127.5°	220.2	205.2	181.5	149.8	115.2	90.8	74.7	66.3	60.1	56.5	56.1
130°	185.9	178.6	157.5	130.1	103.5	84.6	74.0	66.3	60.5	57.2	56.5
132.5°	157.8	152.7	133.0	111.2	92.2	78.4	68.9	60.5	55.0	52.1	51.4
135°	135.6	132.3	115.2	99.5	85.3	74.0	64.2	56.1	51.8	49.9	49.6
137.5°	116.3	113.0	101.3	90.4	79.5	69.6	61.6	54.7	50.7	49.6	49.2
140°	104.3	101.3	94.0	82.4	71.8	61.6	55.8	51.4	49.2	48.5	48.1
142.5°	90.8	87.5	79.5	71.1	63.8	55.8	51.8	49.9	48.8	48.1	47.8
145°	86.0	83.8	74.7	67.1	60.1	56.1	53.9	51.4	49.2	47.8	47.4
147.5°	87.1	84.6	76.5	69.3	63.1	58.7	55.0	51.4	48.5	47.0	46.7
150°	78.0	77.3	72.5	66.7	60.9	56.1	52.5	49.6	47.8	47.4	47.4
152.5°	65.2	64.9	62.7	59.4	55.4	51.8	49.2	47.8	47.8	48.5	48.8
155°	61.2	60.1	58.7	56.5	53.2	50.7	48.8	48.1	48.5	49.2	49.2
157.5°	59.1	58.0	56.5	54.7	52.9	50.7	49.2	48.8	49.6	50.3	50.3
160°	56.1	55.4	54.3	52.5	51.0	49.9	49.2	49.2	49.6	49.9	49.9
162.5°	54.3	53.6	52.5	51.4	50.7	50.3	49.9	49.6	49.9	50.3	50.3
165°	54.3	53.9	52.5	51.4	51.0	51.0	51.0	51.0	51.0	50.7	50.7
167.5°	55.8	55.4	54.3	53.6	53.2	53.6	53.6	53.2	52.9	52.1	52.1
170°	57.2	56.9	56.5	56.1	55.8	56.1	56.1	56.1	55.8	55.8	55.4
172.5°	58.7	58.3	58.0	57.6	57.6	57.6	58.0	58.3	58.3	58.3	58.3
175°	60.1	60.1	59.4	59.1	59.1	59.1	59.4	59.4	59.8	59.8	59.8
177.5°	60.9	60.9	60.9	60.9	61.2	60.9	60.9	60.5	60.5	60.5	60.5
180°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9

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

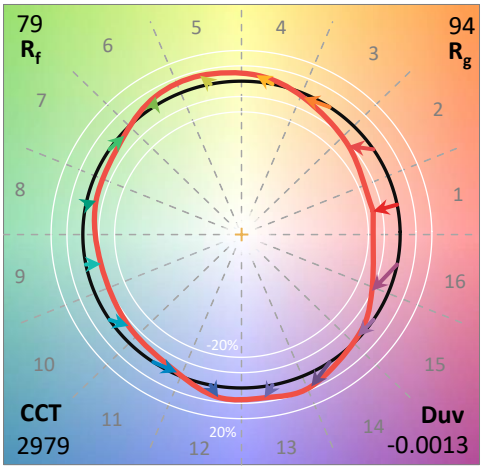
Test Information

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

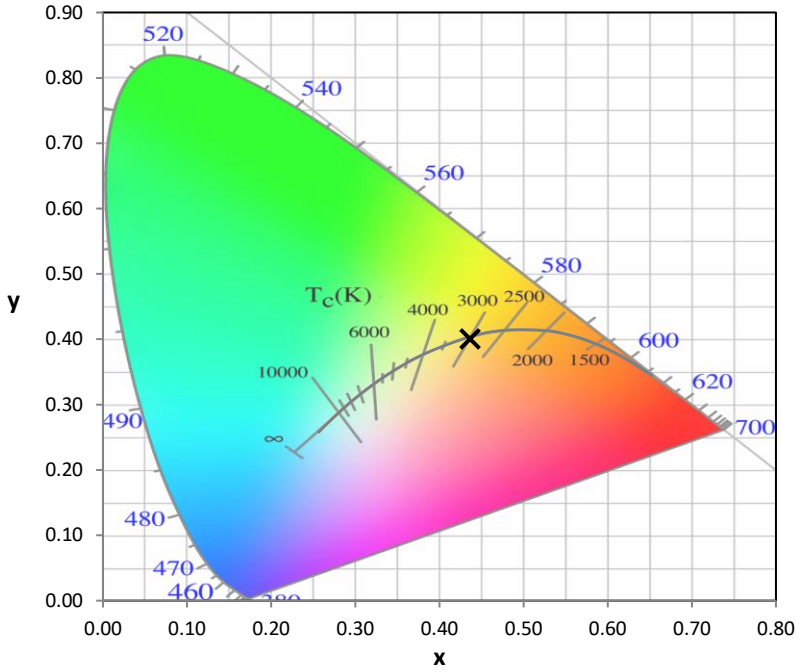
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

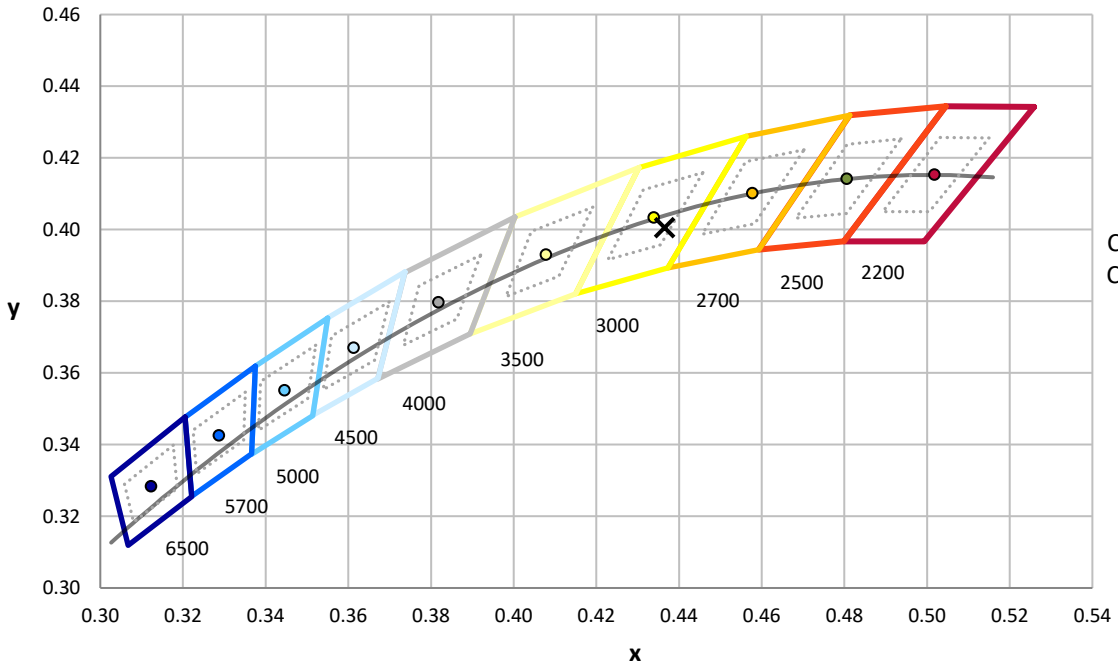
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

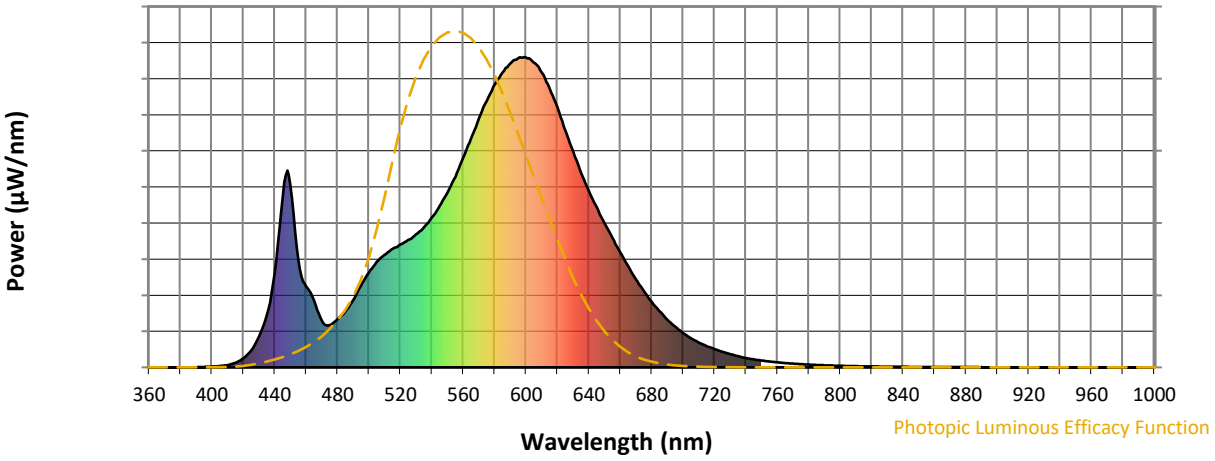


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

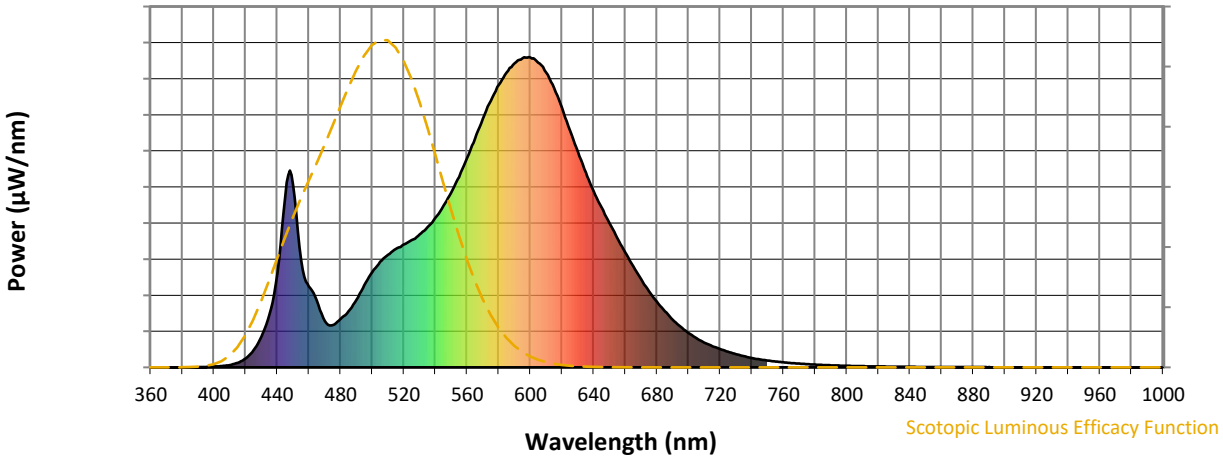


Photopic Lumens: NR

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

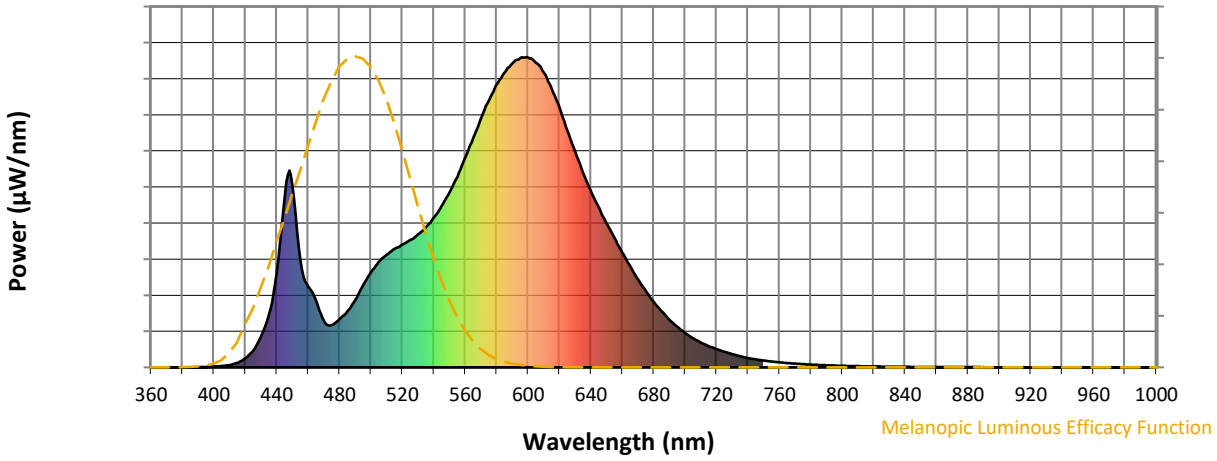


Scotopic Lumens: NR **S/P: 1.29**

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			

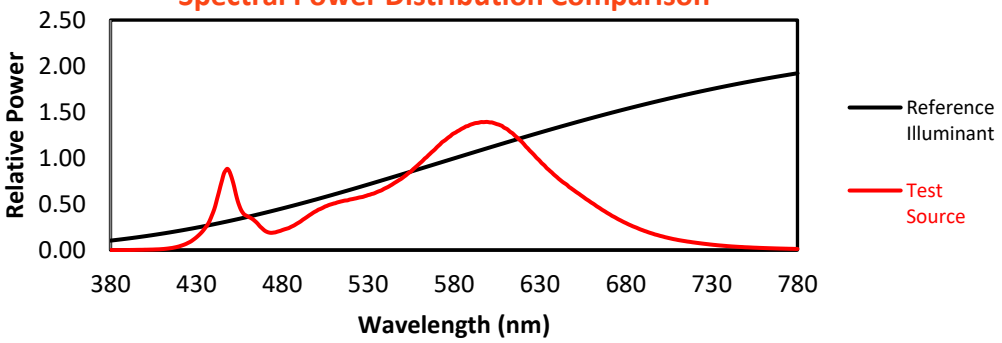
REPORT NUMBER: SP1-2501-332-9

TM-30-18

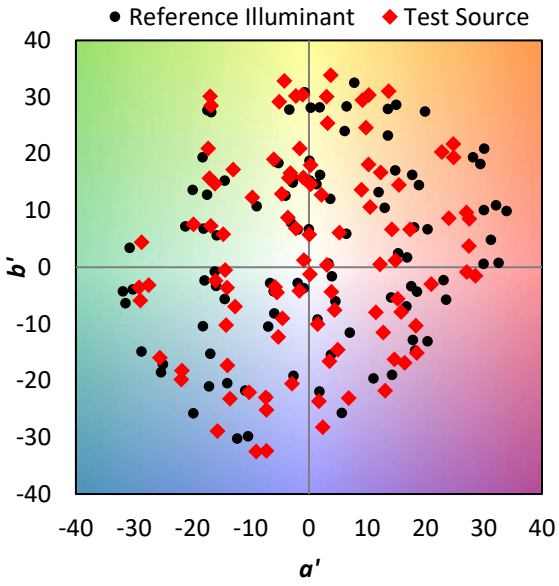
Summary

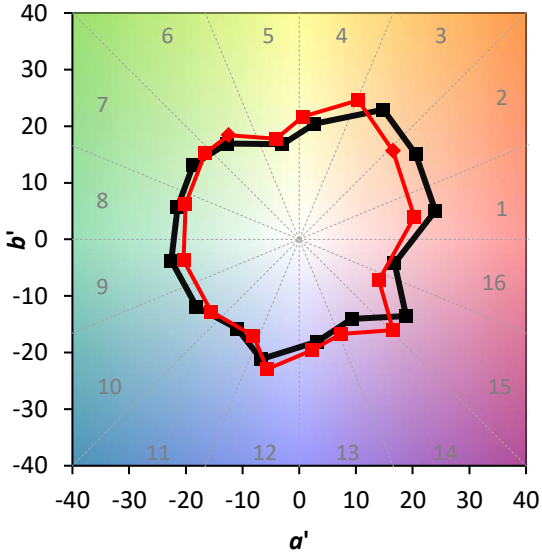
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

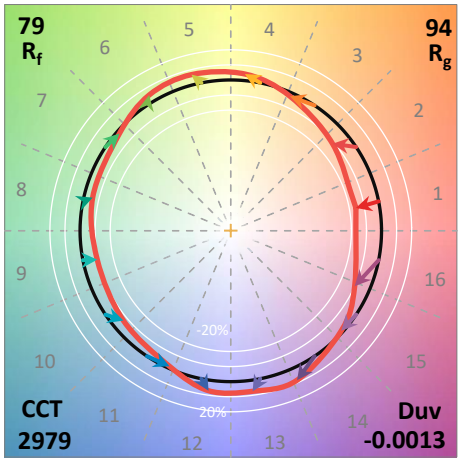
Spectral Power Distribution Comparison

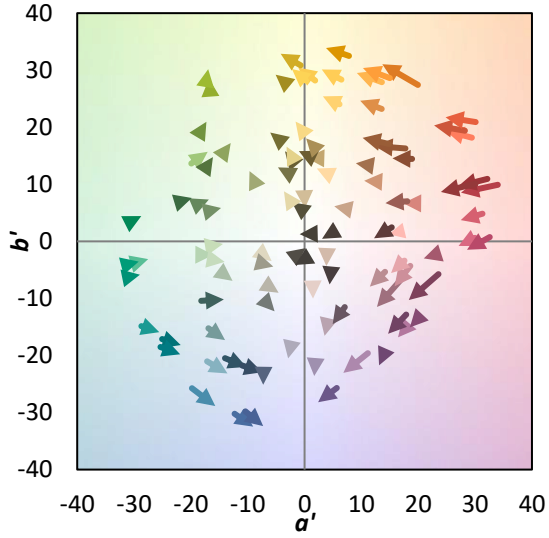


Color Vector Graphics







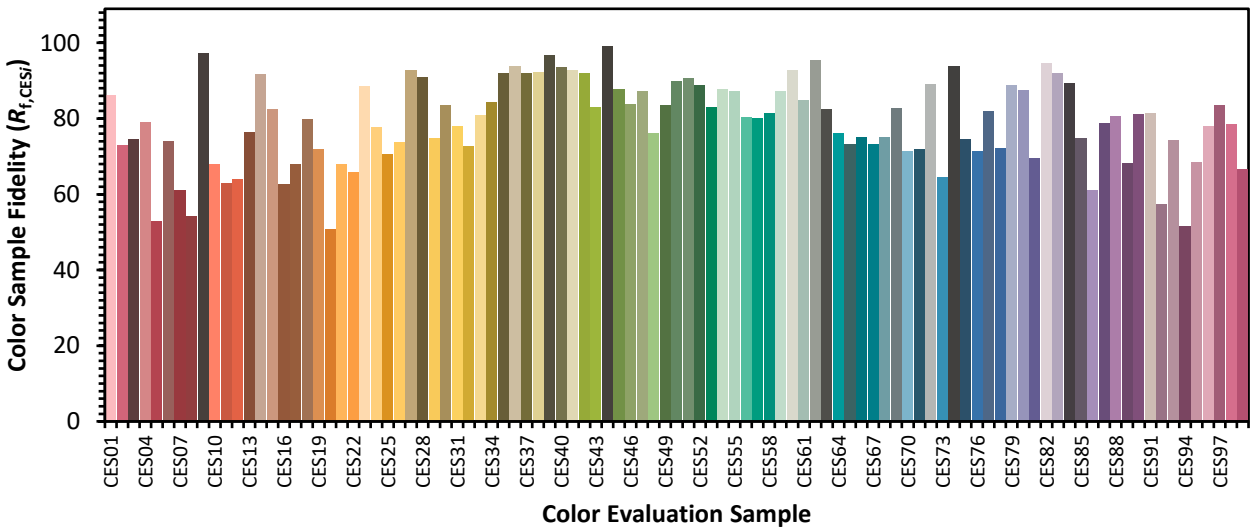


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

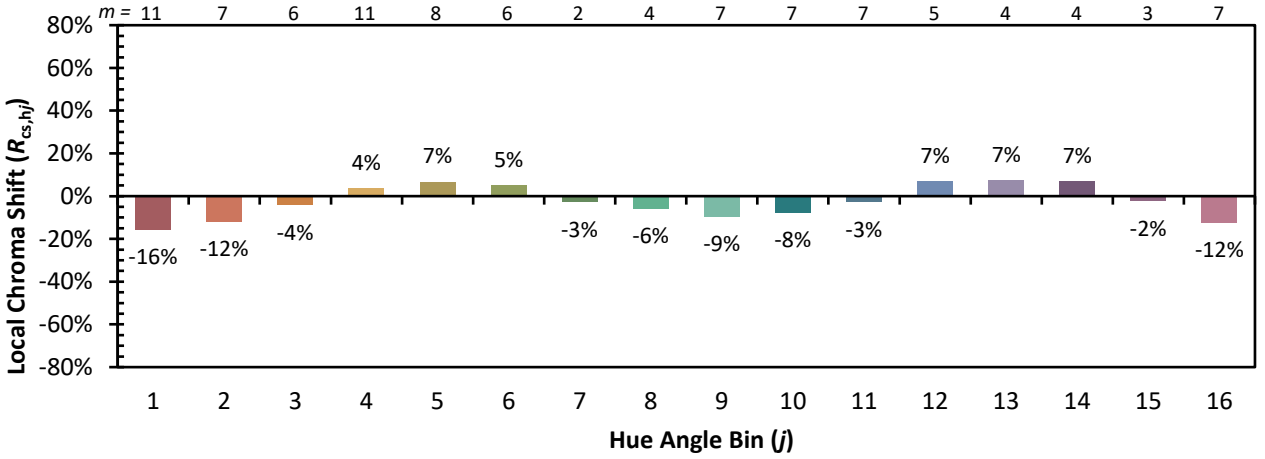
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

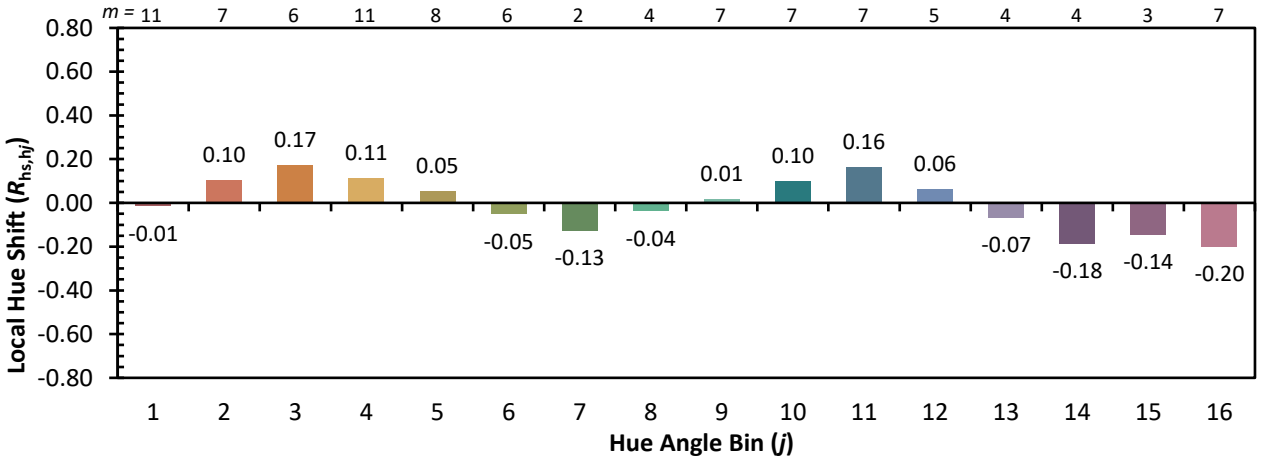


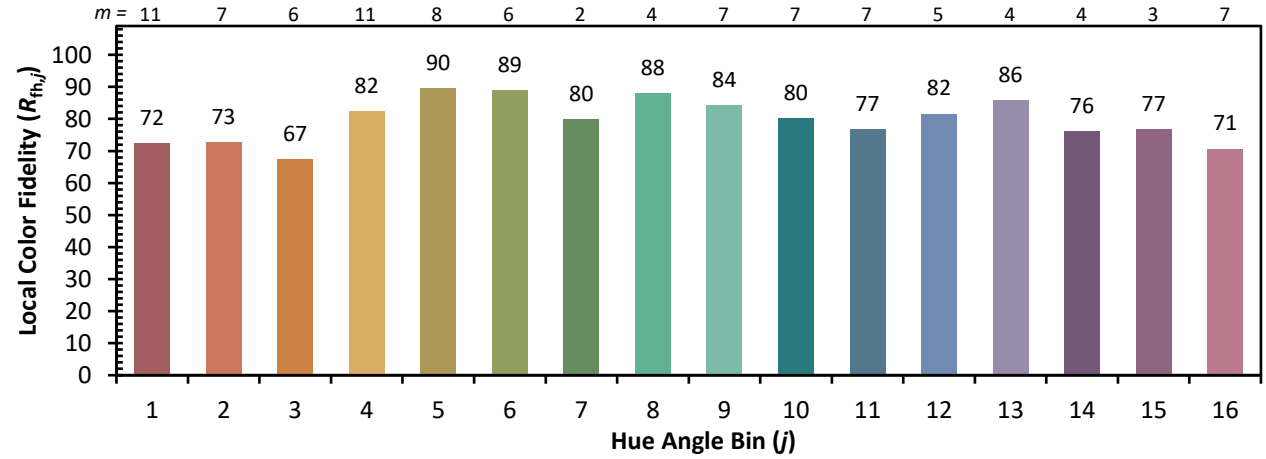
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Color Rendition by Hue-Angle Bin



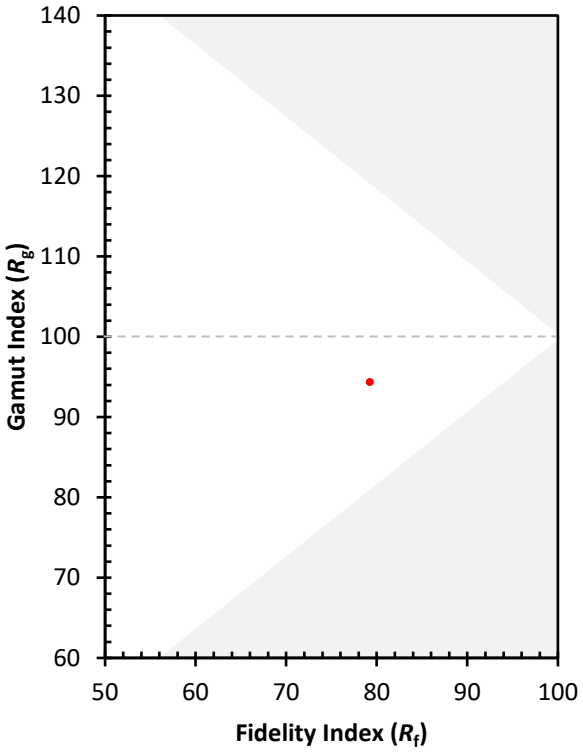


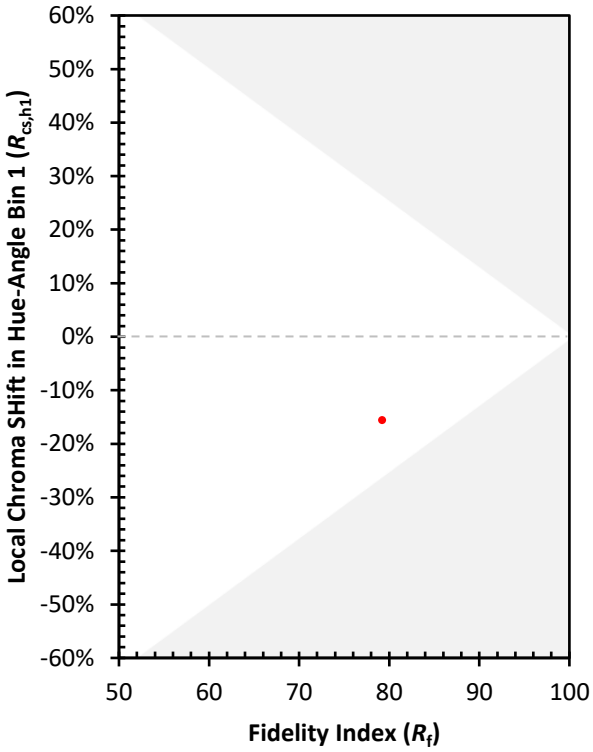


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Measure Comparisons





(END OF REPORT)