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: P1046250

Luminaire Tested: **FFX-CLB-50-730-U-FR-T4-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:	P1046250
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, 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:	7091.9 lumens
Efficiency:	N/A
Efficacy:	140.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

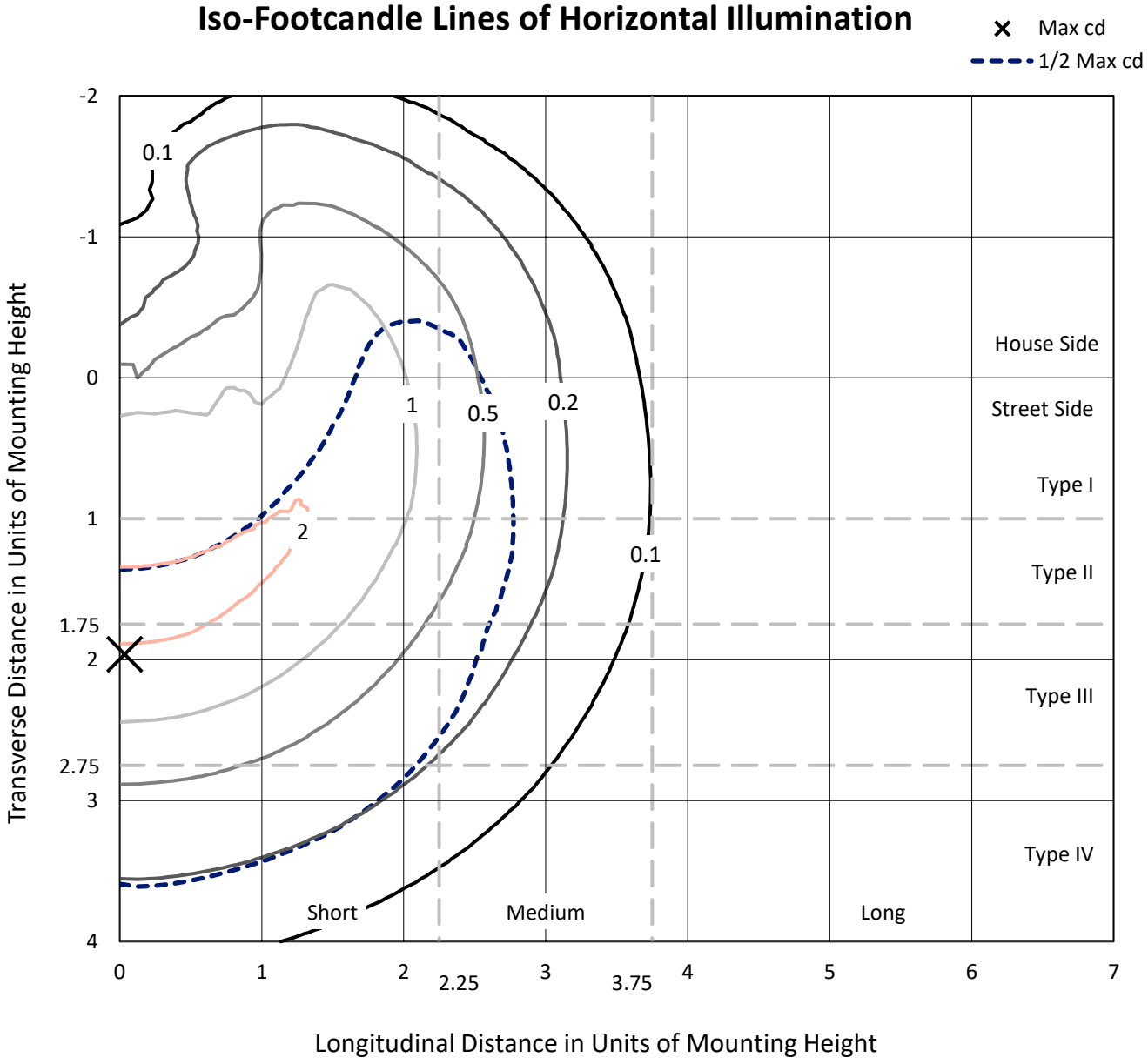


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Iso-Footcandle Lines of Horizontal Illumination



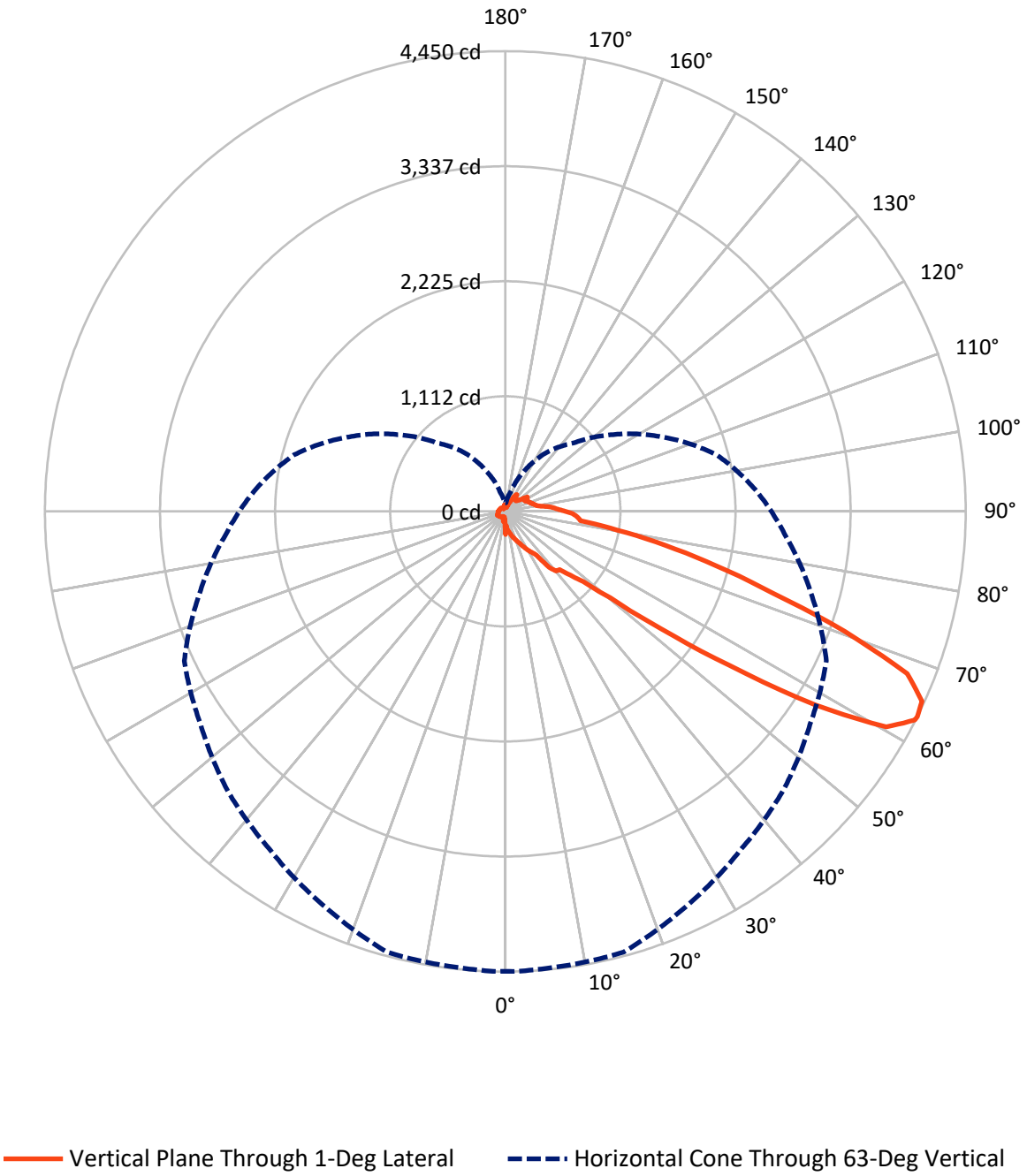
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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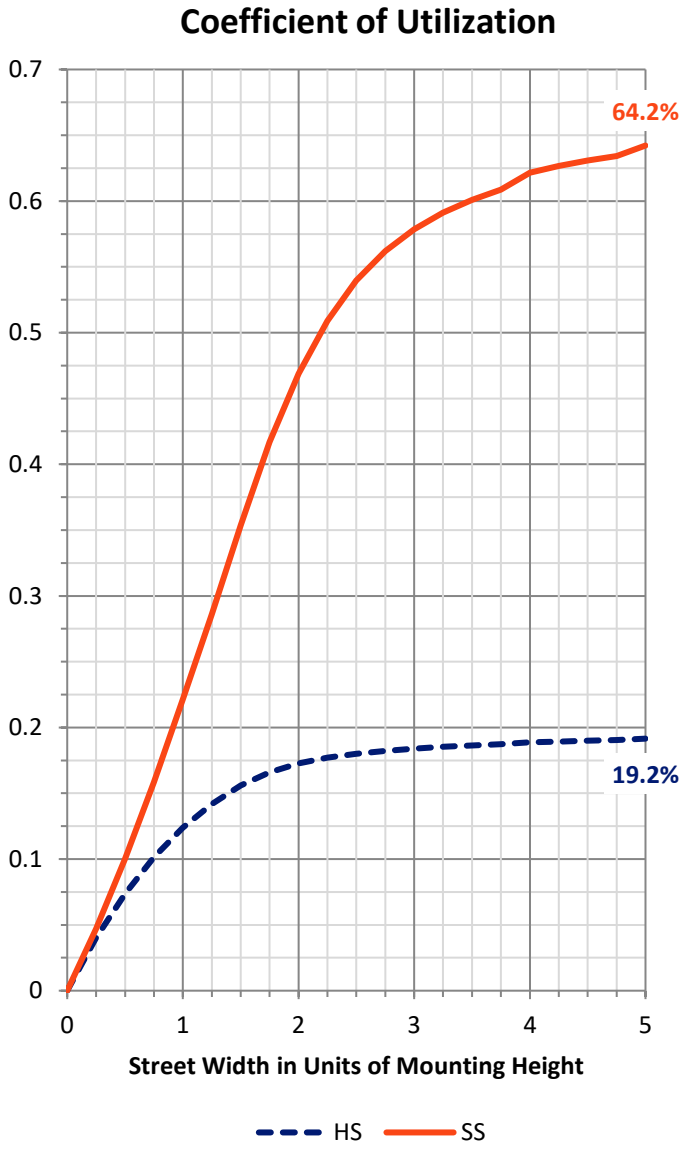
REPORT NUMBER: P1046250
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.2	281.3	1685.4
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	4757.1	649.4	5406.5
	% Fixture	67.1	9.2	76.2
Total	Lumens	6161.3	930.7	7091.9
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.2
10°-20°	46.7	0.7
20°-30°	102.9	1.5
30°-40°	210.6	3.0
40°-50°	425.3	6.0
50°-60°	1372.7	19.4
60°-70°	2261.6	31.9
70°-80°	1246.7	17.6
80°-90°	481.6	6.8
90°-100°	288.8	4.1
100°-110°	184.0	2.6
110°-120°	140.7	2.0
120°-130°	120.0	1.7
130°-140°	80.5	1.1
140°-150°	68.5	1.0
150°-160°	31.2	0.4
160°-170°	12.6	0.2
170°-180°	4.3	0.1
0°-90°	6161.3	86.9
0°-180°	7091.9	100.0



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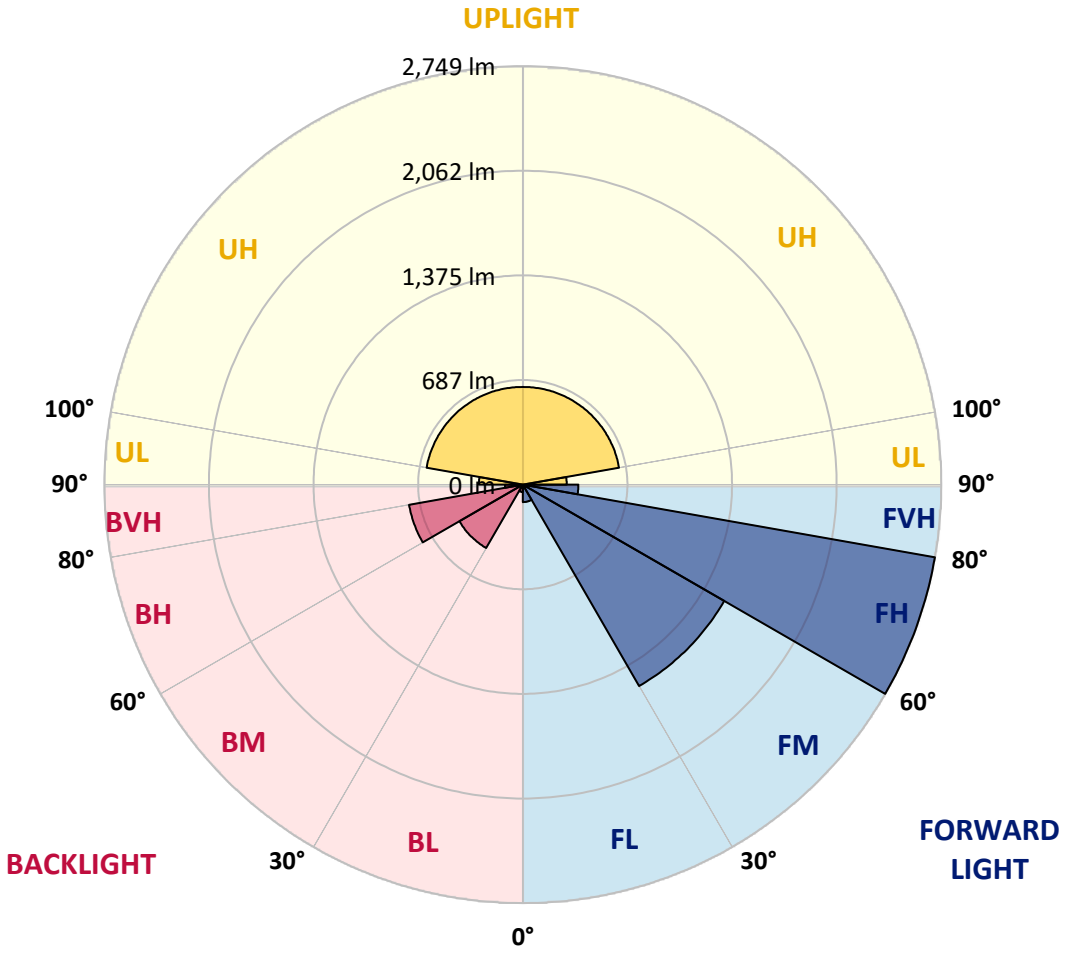
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	114.9	1.6			
FM	(30°-60°)	1527.9	21.5			
FH	(60°-80°)	2749.4	38.8			G2/5000
FVH	(80°-90°)	364.9	5.1			G3/500
BL	(0°-30°)	47.9	0.7	B0/110		
BM	(30°-60°)	480.7	6.8	B1/1000		
BH	(60°-80°)	758.9	10.7	B2/1000		G2/1000
BVH	(80°-90°)	116.7	1.6			G2/225
UL	(90°-100°)	288.8	4.1		U3/500	
UH	(100°-180°)	641.9	9.1		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
2.5°	138.7	137.2	143.8	164.0	186.2	193.2	178.6	173.0	189.2	226.5	230.6
5°	159.9	162.4	160.9	163.5	165.5	181.1	195.2	180.6	146.3	119.6	121.6
7.5°	188.7	188.2	188.2	186.2	176.1	159.9	155.4	167.0	167.5	140.2	119.1
10°	201.3	200.8	200.8	198.8	196.7	198.3	193.2	172.0	154.9	143.8	136.7
12.5°	228.0	227.0	226.5	225.5	222.0	217.9	214.4	215.4	200.8	173.0	154.9
15°	250.2	249.2	250.2	251.2	248.7	241.6	231.6	217.4	204.3	192.7	176.6
17.5°	274.4	273.9	273.4	272.4	268.9	259.3	247.2	234.1	219.5	203.3	188.2
20°	297.6	296.6	297.1	297.6	296.1	284.5	272.4	256.3	240.6	225.0	207.3
22.5°	325.4	325.4	323.9	323.9	322.4	315.3	300.2	281.5	265.4	245.7	226.0
25°	361.2	359.7	359.7	358.2	352.1	344.6	334.0	312.8	293.6	274.9	248.7
27.5°	396.5	395.0	395.0	394.5	386.9	376.9	359.2	339.0	320.9	297.1	265.4
30°	436.9	435.9	436.4	430.8	424.8	410.7	388.5	365.2	341.5	313.8	283.0
32.5°	477.7	474.7	474.2	468.2	460.1	442.9	418.2	396.0	371.3	339.0	313.3
35°	525.7	519.1	526.2	524.7	523.7	505.5	477.2	451.5	422.3	393.0	365.2
37.5°	684.1	687.1	685.6	665.4	649.3	624.6	611.9	581.7	541.3	505.5	453.0
40°	758.7	757.7	755.2	733.0	718.4	692.7	672.5	649.8	626.1	570.1	505.0
42.5°	774.9	769.3	773.4	794.1	813.2	796.1	732.0	658.9	625.6	586.2	552.4
45°	892.9	878.8	884.9	890.4	871.8	847.0	819.3	771.9	715.9	659.4	597.3
47.5°	1019.1	1011.5	1011.0	1009.0	1011.0	987.3	950.5	906.6	827.4	766.3	697.2
50°	1326.3	1316.2	1319.2	1321.8	1311.2	1286.9	1247.1	1218.3	1123.5	1006.5	916.7
52.5°	1889.8	1883.8	1869.6	1870.6	1775.3	1770.2	1716.3	1690.5	1550.8	1417.1	1236.0
55°	2585.5	2624.8	2581.5	2572.9	2533.5	2498.2	2363.0	2251.0	2050.7	1858.5	1646.1
57.5°	3527.9	3534.4	3479.4	3481.0	3341.2	3252.4	3127.8	2956.3	2658.1	2380.7	2142.6
60°	4214.5	4231.1	4205.4	4151.9	3881.5	3722.6	3585.4	3450.2	3222.7	2810.5	2479.0
62.5°	4438.0	4443.0	4426.9	4398.6	4160.0	3957.2	3780.6	3584.4	3409.8	3038.5	2705.6
63°	4446.0	4449.6	4437.0	4412.7	4191.3	3980.9	3804.3	3594.5	3423.4	3058.7	2719.2
65°	4424.4	4425.9	4420.3	4388.0	4211.0	3988.5	3794.2	3587.4	3430.5	3066.8	2719.2
67.5°	4229.1	4190.8	4206.9	4152.4	4005.1	3783.7	3598.0	3387.1	3245.9	2894.2	2561.3
70°	3479.4	3482.0	3479.4	3449.7	3407.8	3232.8	3015.8	2826.1	2647.5	2371.6	2110.3
72.5°	2691.9	2702.5	2679.3	2696.5	2662.7	2517.9	2377.6	2185.4	2059.8	1825.7	1595.2
75°	2085.0	2106.7	2113.8	2064.9	2035.6	2004.8	1928.1	1789.9	1664.3	1483.2	1281.9
77.5°	1575.5	1579.5	1585.6	1552.3	1514.0	1526.1	1515.0	1449.4	1344.0	1210.8	1050.8
80°	1088.7	1100.3	1120.0	1100.8	1105.3	1098.3	1096.8	1044.3	968.1	884.4	798.6
82.5°	731.5	731.0	736.0	766.8	795.1	794.1	749.2	675.5	636.7	612.4	564.0
85°	700.2	700.2	707.3	685.1	671.0	656.8	653.8	628.6	598.8	544.3	477.2
87.5°	652.8	651.3	653.3	634.1	615.5	610.9	606.4	584.7	571.6	524.2	462.6
90°	558.5	562.5	562.5	561.0	549.4	544.8	526.7	508.5	500.5	457.6	409.1
92.5°	492.9	492.9	498.4	488.8	476.2	483.3	452.0	428.3	417.2	388.5	350.1
95°	445.5	443.9	451.0	437.4	428.3	415.2	402.1	377.4	369.3	344.6	305.7
97.5°	355.7	354.1	358.2	351.6	337.5	331.4	317.3	297.6	290.1	266.9	243.2
100°	306.2	305.7	307.2	303.7	295.6	288.1	276.0	260.3	253.3	234.1	212.9
102.5°	290.6	289.1	289.6	290.1	278.5	271.4	259.8	247.7	240.6	225.0	201.8
105°	276.5	275.4	274.4	274.4	261.3	254.3	246.7	238.6	232.6	215.4	193.2
107.5°	263.3	261.8	258.3	257.8	249.2	241.6	232.6	225.5	219.5	203.8	182.6

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	248.7	*248.2*	246.2	246.7	241.1	229.5	222.0	213.4	205.8	192.2	173.5
112.5°	241.1	*241.1*	239.6	242.2	221.0	209.4	201.3	193.7	188.7	175.6	161.4
115°	233.1	*229.0*	227.5	232.6	208.4	192.2	184.1	176.1	171.0	157.9	146.3
117.5°	215.9	*214.9*	215.4	219.5	212.4	194.7	181.6	171.5	166.5	156.9	146.3
120°	246.2	*245.2*	239.1	238.1	226.0	211.9	203.3	197.8	190.2	174.6	154.4
122.5°	257.3	*255.3*	245.7	248.7	232.6	225.5	222.0	220.0	212.9	192.2	161.4
125°	224.0	*221.0*	218.4	219.5	210.4	201.3	197.8	194.7	187.7	176.1	153.9
127.5°	179.6	*181.1*	179.1	173.5	172.0	158.4	153.9	150.3	143.8	134.2	130.7
130°	168.5	*167.5*	167.0	166.0	165.0	154.9	147.8	139.2	133.7	125.6	116.0
132.5°	149.8	*150.8*	152.4	160.9	169.0	160.4	142.3	129.1	125.6	127.1	123.1
135°	142.3	*142.8*	142.8	149.3	156.4	147.8	134.2	121.6	120.1	125.6	120.6
137.5°	145.8	*148.3*	147.8	146.3	142.3	136.2	133.2	126.1	122.1	118.6	110.0
140°	153.9	*156.9*	155.4	146.8	143.8	140.8	142.8	140.2	130.2	118.0	105.4
142.5°	152.9	*155.4*	154.4	153.4	158.9	151.9	142.3	132.7	124.6	118.0	110.0
145°	198.3	*197.3*	193.2	193.2	186.7	176.1	169.5	159.4	149.8	141.3	128.1
147.5°	183.1	*185.7*	186.7	182.1	179.1	172.0	171.0	165.5	162.4	154.9	141.3
150°	145.3	*147.3*	144.3	140.8	139.2	139.7	137.2	133.2	130.2	124.6	118.6
152.5°	100.4	*101.4*	100.4	97.4	96.4	94.8	95.3	92.3	90.3	86.8	81.2
155°	91.3	*91.8*	92.3	87.3	86.3	86.8	87.3	85.3	81.2	78.2	71.6
157.5°	71.6	*70.6*	70.6	69.6	70.1	68.6	68.6	68.1	66.6	64.6	62.6
160°	57.0	*57.5*	57.5	57.5	58.5	57.5	57.5	56.0	56.0	55.0	54.0
162.5°	48.4	*48.4*	48.4	48.4	47.9	47.9	48.9	48.4	48.4	48.9	49.9
165°	40.9	*41.4*	41.4	41.4	41.4	41.4	42.4	42.4	43.4	45.4	47.9
167.5°	38.3	*37.8*	37.8	38.3	38.3	39.3	39.3	41.4	44.9	48.4	48.4
170°	36.3	*36.3*	36.3	36.8	36.8	37.3	38.8	42.4	46.4	47.9	45.9
172.5°	37.8	*37.3*	37.3	37.8	37.8	39.3	41.4	44.4	45.9	45.9	43.9
175°	38.8	*38.3*	38.3	38.8	38.8	39.9	41.9	43.9	44.9	45.4	45.4
177.5°	37.8	*37.8*	37.8	37.8	37.8	38.3	38.3	39.9	40.9	41.9	42.9
180°	36.3	*36.3*	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
2.5°	230.6	210.4	180.6	144.3	168.0	197.3	193.2	170.5	136.2	102.4	102.4
5°	127.6	135.2	142.8	125.1	112.0	111.0	108.0	96.9	95.3	78.7	74.2
7.5°	111.5	104.4	102.9	121.6	120.1	79.2	62.6	55.5	58.5	79.2	81.7
10°	133.7	130.7	121.1	100.9	84.2	76.7	76.2	77.2	70.6	57.0	53.5
12.5°	150.8	145.8	137.2	131.2	112.0	89.3	76.7	71.1	75.2	95.3	99.9
15°	167.5	160.4	145.8	129.1	110.0	93.3	80.2	68.6	68.6	65.6	64.1
17.5°	180.6	171.5	153.9	135.7	114.0	93.3	76.2	64.6	59.0	58.0	58.0
20°	197.3	188.7	169.5	147.3	120.1	94.3	75.7	64.6	58.0	55.5	55.0
22.5°	217.9	206.8	182.1	155.9	123.6	95.3	76.7	65.1	58.5	55.0	54.0
25°	237.1	224.5	195.2	168.0	131.7	97.9	77.7	66.6	59.5	55.5	55.0
27.5°	252.7	239.1	211.9	180.6	140.2	103.9	82.7	69.6	61.0	57.0	56.0
30°	270.4	257.8	229.0	193.7	148.3	111.5	89.8	75.2	65.6	60.0	59.5
32.5°	296.6	281.0	247.7	207.3	157.9	119.6	96.9	80.2	68.6	65.6	65.6
35°	344.1	327.9	284.0	229.5	167.0	127.6	103.9	85.8	73.2	66.1	65.6
37.5°	432.8	410.7	355.7	280.0	182.6	134.2	110.0	90.3	75.7	65.6	64.1
40°	473.7	435.9	377.4	306.7	205.3	141.8	115.0	93.8	76.2	67.1	66.1
42.5°	522.1	490.4	407.6	313.3	222.0	160.4	123.6	97.9	79.2	69.1	68.1
45°	568.6	537.8	468.2	370.3	259.3	188.2	138.7	105.9	84.2	72.1	70.1
47.5°	652.8	620.5	523.7	428.8	310.8	231.6	169.0	118.6	91.3	75.2	72.6
50°	871.8	825.8	711.8	568.1	397.5	294.1	216.4	144.8	100.9	76.7	73.7
52.5°	1154.3	1084.1	960.5	776.9	568.6	416.2	303.2	210.4	117.5	77.2	72.6
55°	1612.3	1526.1	1327.3	1058.9	796.1	621.0	459.1	323.4	173.0	80.7	72.1
57.5°	2046.7	1982.6	1809.1	1448.9	1055.9	789.0	603.9	455.0	235.6	88.8	75.7
60°	2366.0	2244.0	2041.2	1671.9	1275.3	915.6	672.0	473.2	242.2	90.3	78.2
62.5°	2556.7	2405.9	2105.2	1704.2	1306.6	941.9	699.2	435.4	195.7	88.3	81.7
63°	*2570.9*	*2424.6*	*2113.3*	*1693.1*	*1296.5*	*934.8*	*695.2*	*426.3*	*190.2*	*87.8*	*82.7*
65°	2553.2	2426.1	2085.0	1635.0	1210.8	872.3	647.3	382.9	154.4	86.3	83.7
67.5°	2377.6	2274.2	1937.2	1478.1	1078.1	753.2	535.8	292.1	120.6	82.2	81.2
70°	1990.2	1871.6	1565.9	1221.9	854.6	608.4	427.3	226.5	99.4	78.2	77.2
72.5°	1481.2	1431.7	1189.6	929.8	657.3	469.2	320.9	172.0	88.3	75.2	74.2
75°	1197.7	1123.5	943.4	734.5	499.9	348.6	238.1	129.1	80.7	72.6	71.6
77.5°	990.3	940.9	785.0	554.4	356.7	251.2	175.1	102.4	77.2	71.1	70.6
80°	766.8	736.0	612.4	410.1	255.3	187.2	138.7	93.8	75.7	70.6	70.1
82.5°	540.8	531.2	446.0	306.7	216.9	167.5	129.1	92.3	76.2	71.6	70.6
85°	448.0	427.3	375.3	291.6	205.8	160.4	124.6	90.8	76.2	71.1	70.6
87.5°	436.4	419.2	363.2	272.9	188.7	148.3	117.0	87.3	73.7	69.1	68.6
90°	394.5	377.4	325.4	243.7	177.6	139.2	109.5	82.7	70.6	67.1	66.1
92.5°	336.5	320.9	282.5	221.5	170.0	133.7	106.4	81.2	70.1	66.1	65.6
95°	292.1	279.0	247.7	203.8	156.9	124.6	100.9	78.2	68.1	64.6	64.1
97.5°	232.6	224.5	200.3	166.0	132.7	109.0	90.3	73.7	65.6	62.6	62.1
100°	204.8	197.8	178.6	150.3	123.1	102.9	87.3	72.1	63.6	61.0	60.5
102.5°	192.2	186.7	169.5	141.3	115.5	97.9	83.2	69.6	62.1	59.5	59.0
105°	182.6	177.6	161.9	134.7	109.0	91.3	78.2	66.6	59.5	57.5	57.0
107.5°	171.0	167.0	151.9	125.1	102.4	85.8	74.2	64.1	58.0	56.0	56.0

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

Scaled Data Report

REPORT NUMBER: P1046250
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	161.4	158.4	142.8	119.6	97.9	82.2	71.6	63.1	57.5	55.5	55.5
112.5°	151.3	147.8	133.2	112.5	93.8	79.7	69.6	61.5	56.5	54.5	54.5
115°	140.2	136.7	122.6	104.4	88.8	75.7	66.6	59.0	54.5	53.0	53.0
117.5°	142.3	133.2	116.0	99.9	84.8	72.6	64.6	58.0	53.0	52.0	51.5
120°	144.3	132.7	120.1	104.9	87.3	71.1	63.1	56.5	52.5	51.0	51.0
122.5°	140.8	142.3	131.2	108.0	83.2	69.6	62.6	57.0	53.0	51.5	52.0
125°	137.7	141.3	128.1	101.9	80.2	69.1	62.6	58.5	55.0	53.5	53.5
127.5°	126.6	127.1	109.0	91.3	78.2	67.6	62.1	59.0	56.0	54.0	53.0
130°	111.5	110.5	101.9	88.8	73.7	65.1	60.0	58.5	55.5	52.0	51.5
132.5°	119.6	116.5	102.4	84.2	69.6	62.6	59.5	57.5	52.5	48.4	47.9
135°	113.5	110.5	95.9	78.7	67.6	63.6	62.1	57.0	49.4	46.4	45.9
137.5°	103.4	98.4	86.3	75.2	68.6	66.1	62.6	56.0	48.4	44.9	44.4
140°	99.4	94.3	84.8	77.2	69.6	61.5	55.5	49.4	44.4	41.4	40.9
142.5°	104.4	100.4	90.8	77.2	65.1	56.5	51.0	46.9	42.4	37.8	37.3
145°	121.6	114.0	100.9	86.8	74.2	64.1	55.5	46.9	38.8	33.8	33.3
147.5°	134.7	128.6	114.5	98.4	80.7	64.6	52.0	41.4	34.8	31.8	31.3
150°	112.0	108.5	97.9	84.8	71.6	57.0	44.9	36.8	32.8	31.8	31.8
152.5°	78.2	75.7	72.1	63.6	53.5	44.9	38.3	34.3	32.8	32.3	32.3
155°	69.1	67.6	63.1	55.5	48.4	41.9	36.8	33.8	33.3	32.8	32.8
157.5°	59.5	59.0	56.0	49.9	44.4	39.3	35.8	34.3	33.3	32.8	32.8
160°	53.5	52.0	48.9	44.9	41.4	38.3	36.3	35.3	34.3	33.8	33.8
162.5°	49.9	48.9	45.4	42.4	40.4	39.9	40.4	39.9	37.3	35.8	35.3
165°	47.4	46.9	43.4	41.4	40.4	42.9	45.9	44.9	40.4	37.8	37.8
167.5°	47.4	46.4	42.9	41.4	43.9	47.4	49.9	49.4	45.4	42.9	41.4
170°	44.9	43.9	42.9	43.4	46.9	48.4	48.9	49.9	50.4	53.0	54.0
172.5°	43.4	43.4	44.4	46.4	49.4	49.9	48.4	48.9	53.5	59.0	59.5
175°	45.4	45.4	47.4	51.0	52.5	53.5	51.5	52.0	57.0	62.6	63.1
177.5°	43.4	43.9	44.9	45.4	44.9	43.4	42.9	44.9	43.4	42.9	44.4
180°	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3

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

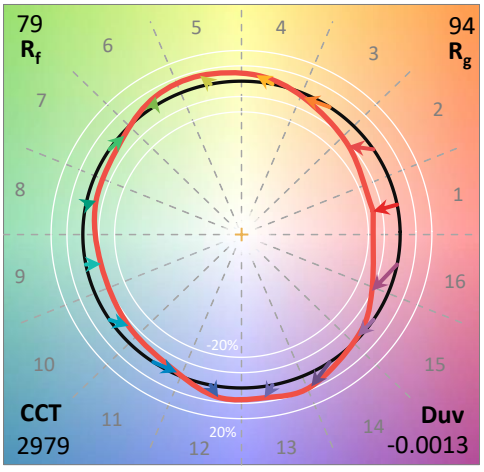
Test Information

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

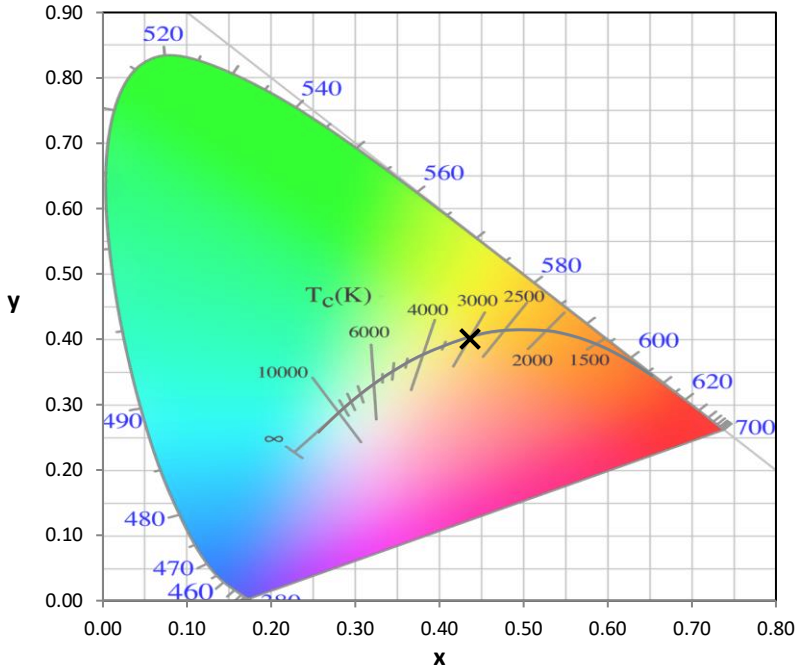
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

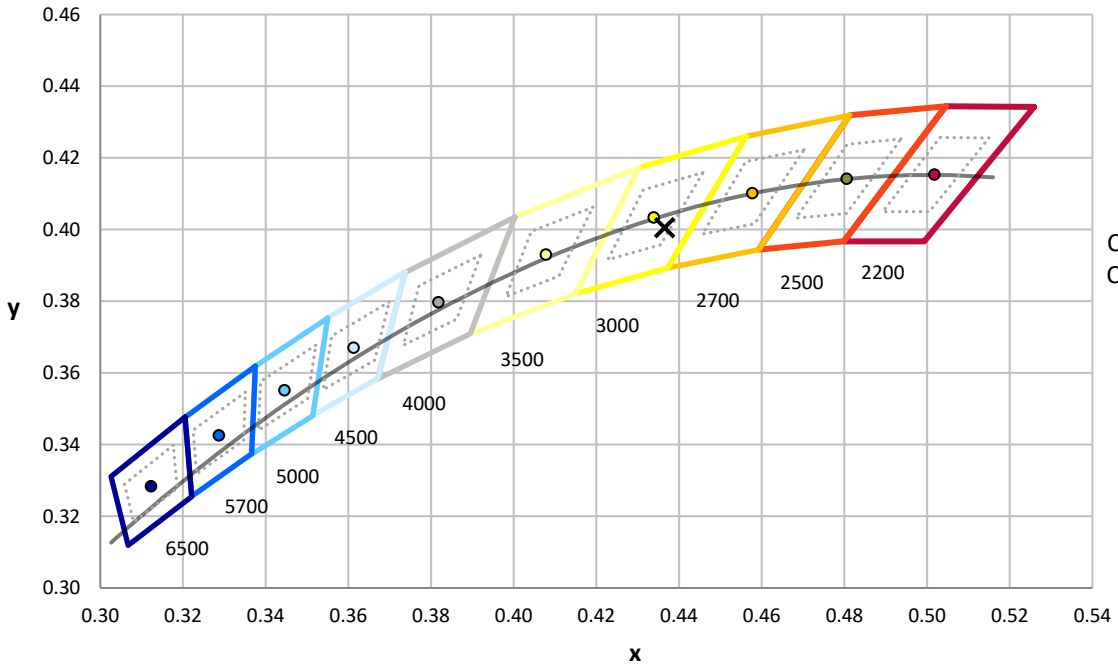
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

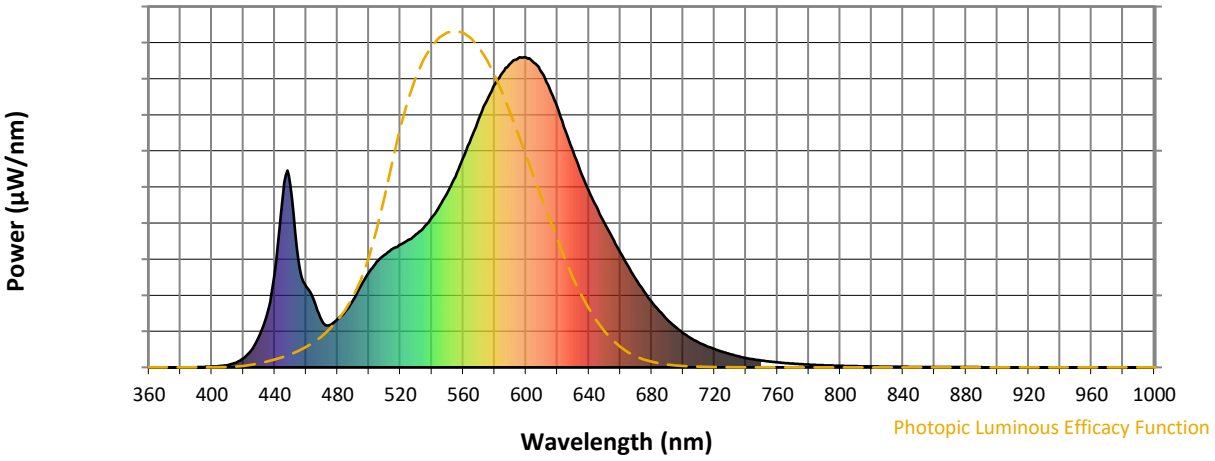


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

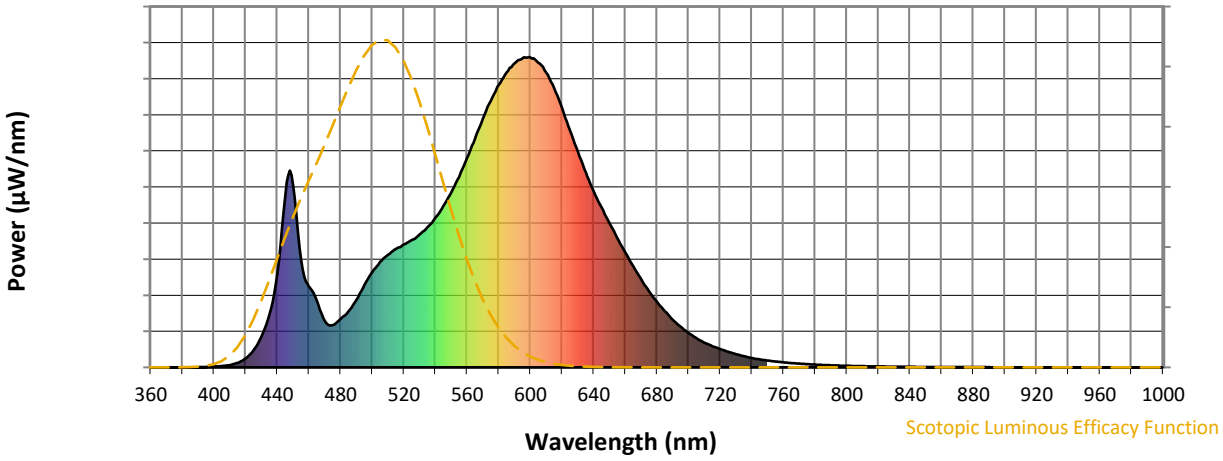


Photopic Lumens: NR

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

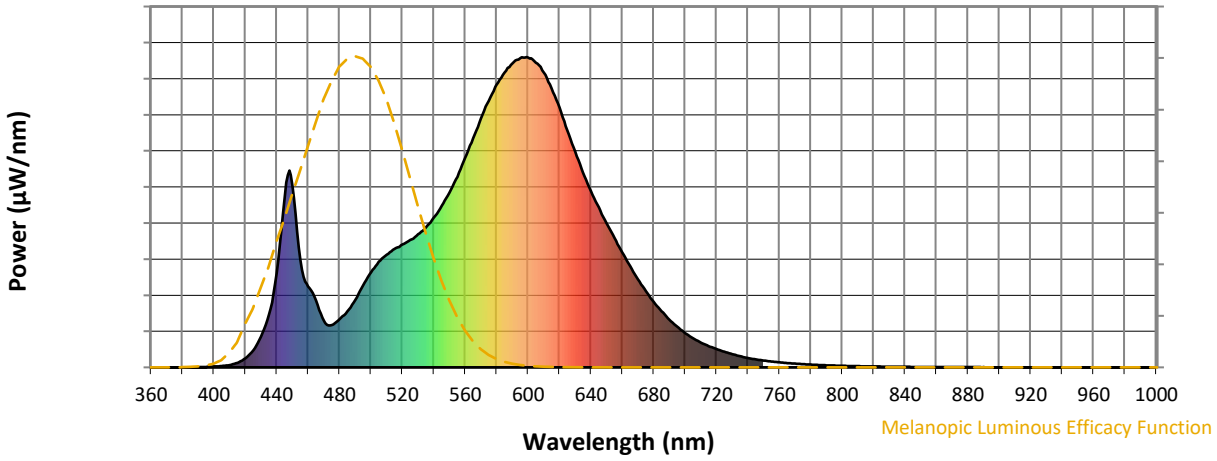


Scotopic Lumens: NR **S/P: 1.29**

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			

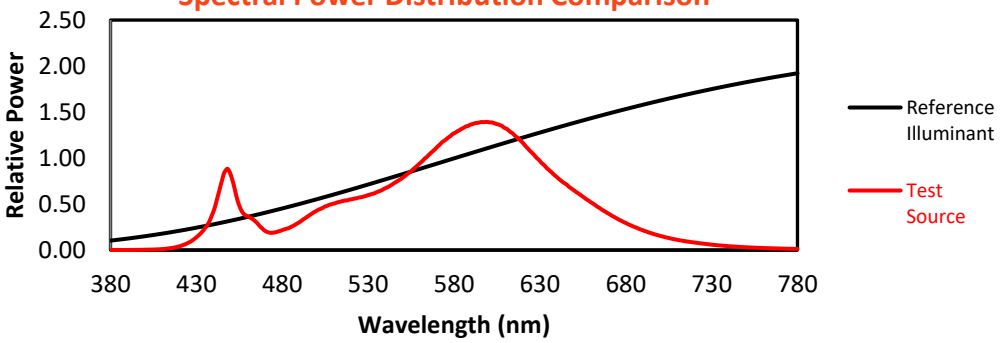
REPORT NUMBER: SP1-2501-332-9

TM-30-18

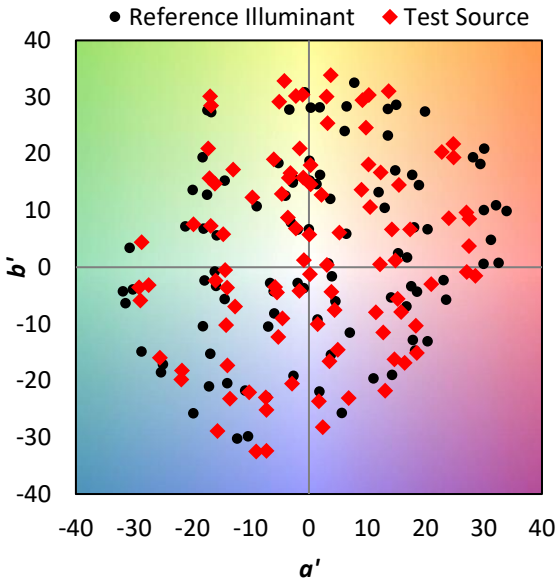
Summary

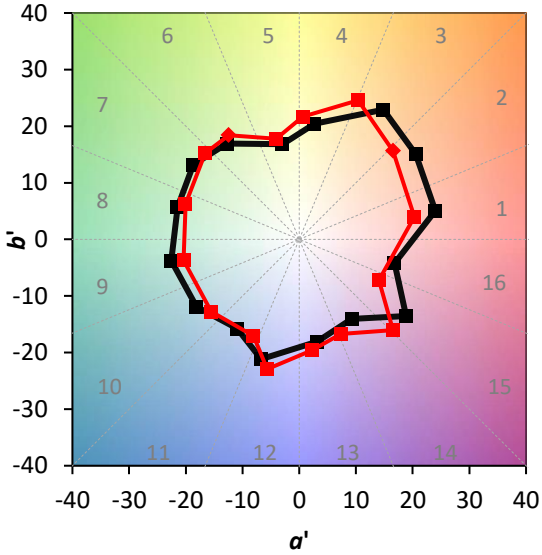
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

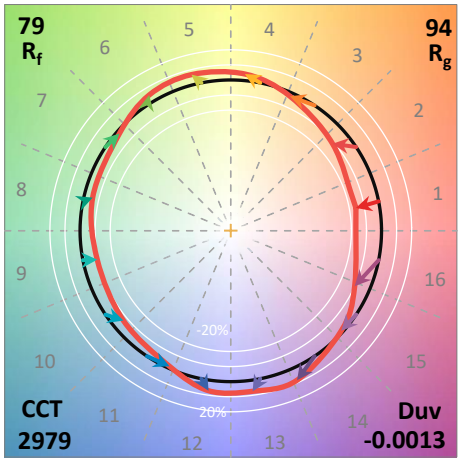
Spectral Power Distribution Comparison

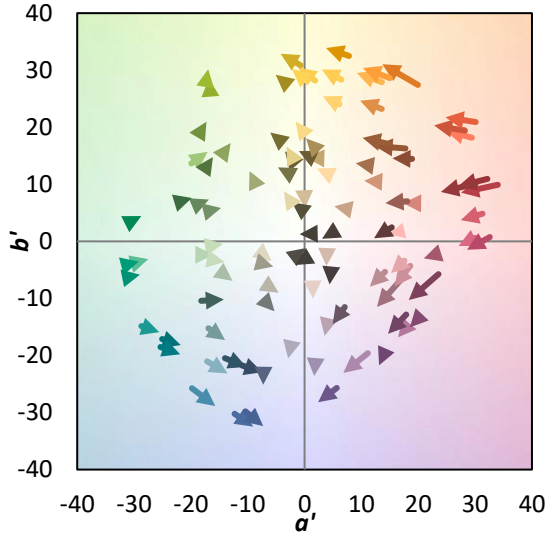


Color Vector Graphics







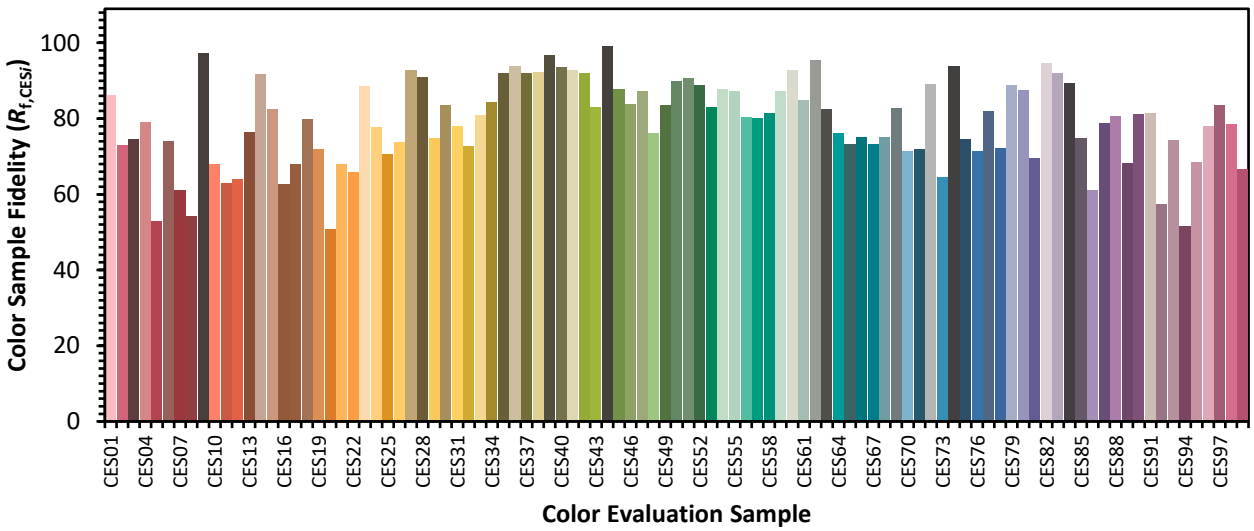


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

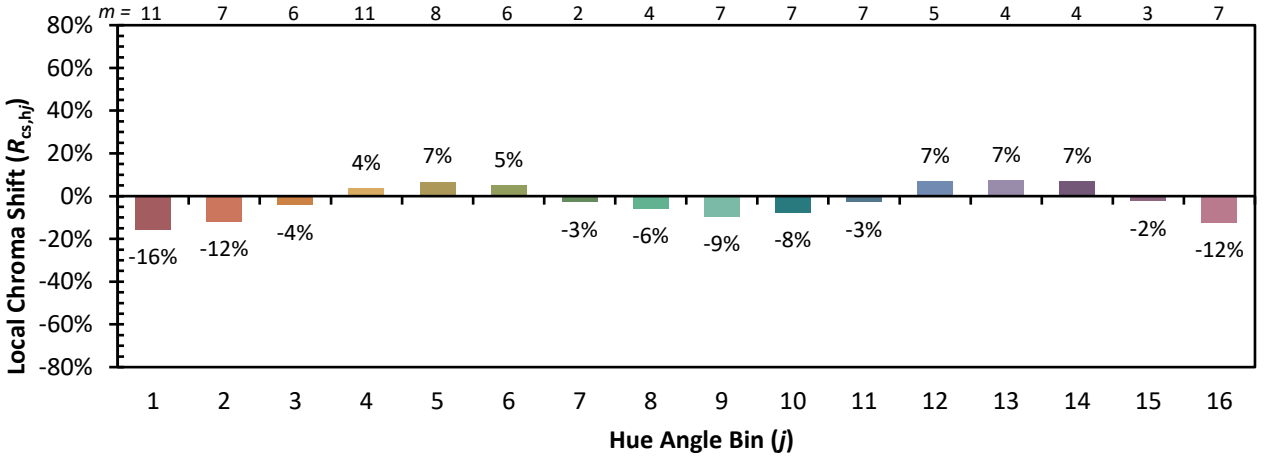
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57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

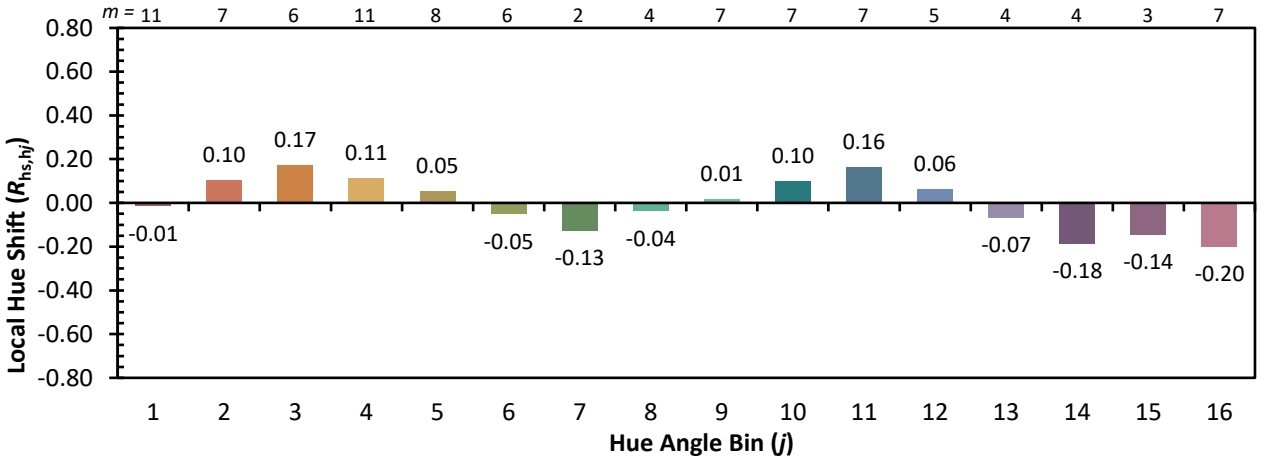


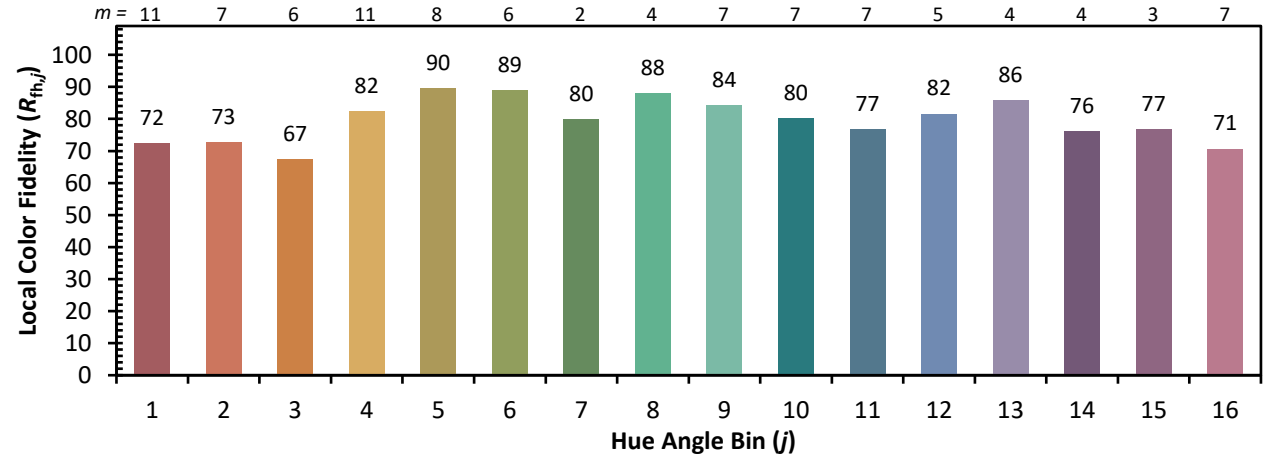
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Color Rendition by Hue-Angle Bin



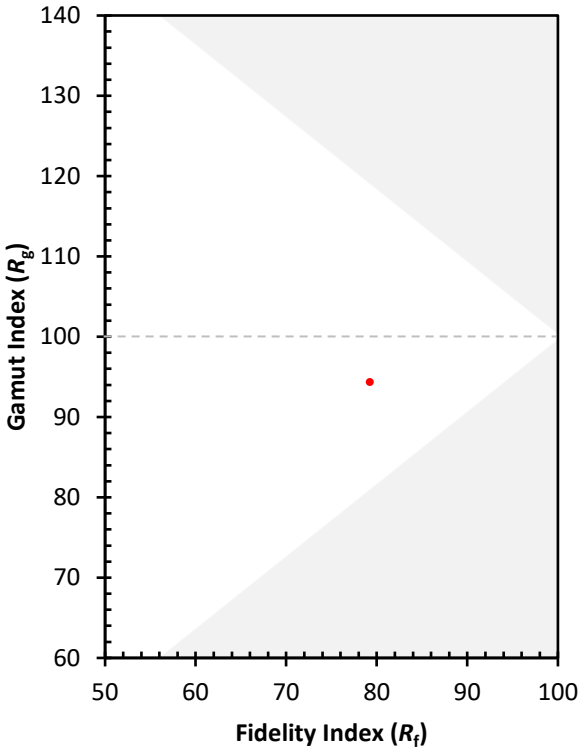


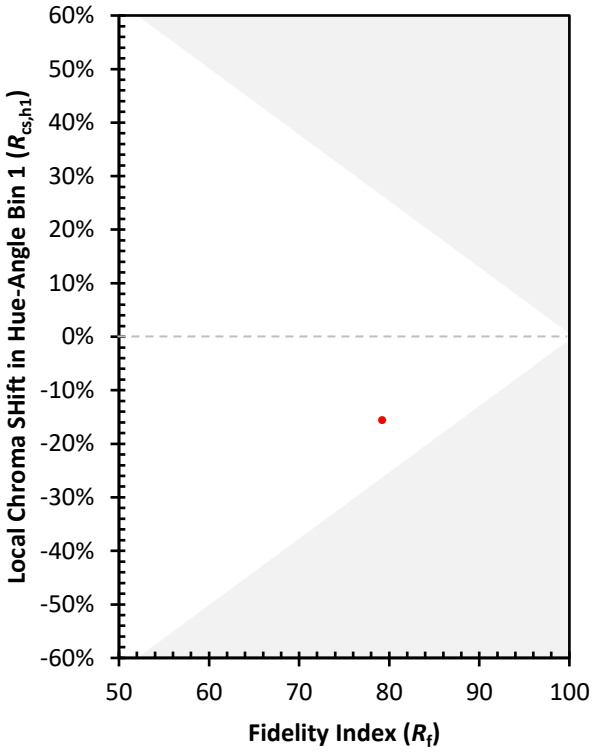


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Measure Comparisons





(END OF REPORT)