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: P1045791

Luminaire Tested: **FFX-CLB-50-727-U-FR-T5-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:	P1045791
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5033.6 lumens
Efficiency:	N/A
Efficacy:	99.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - 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

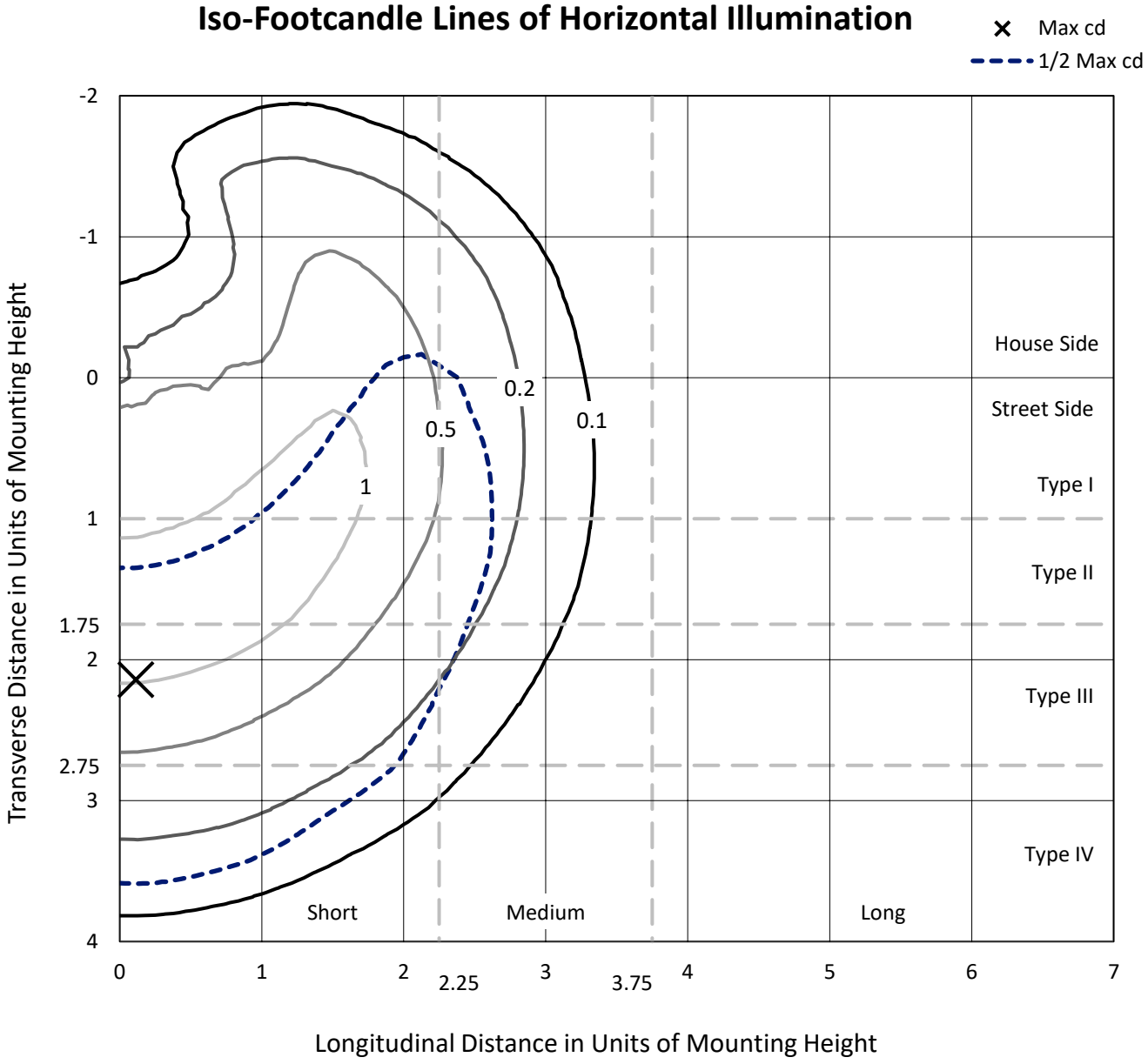


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Iso-Footcandle Lines of Horizontal Illumination



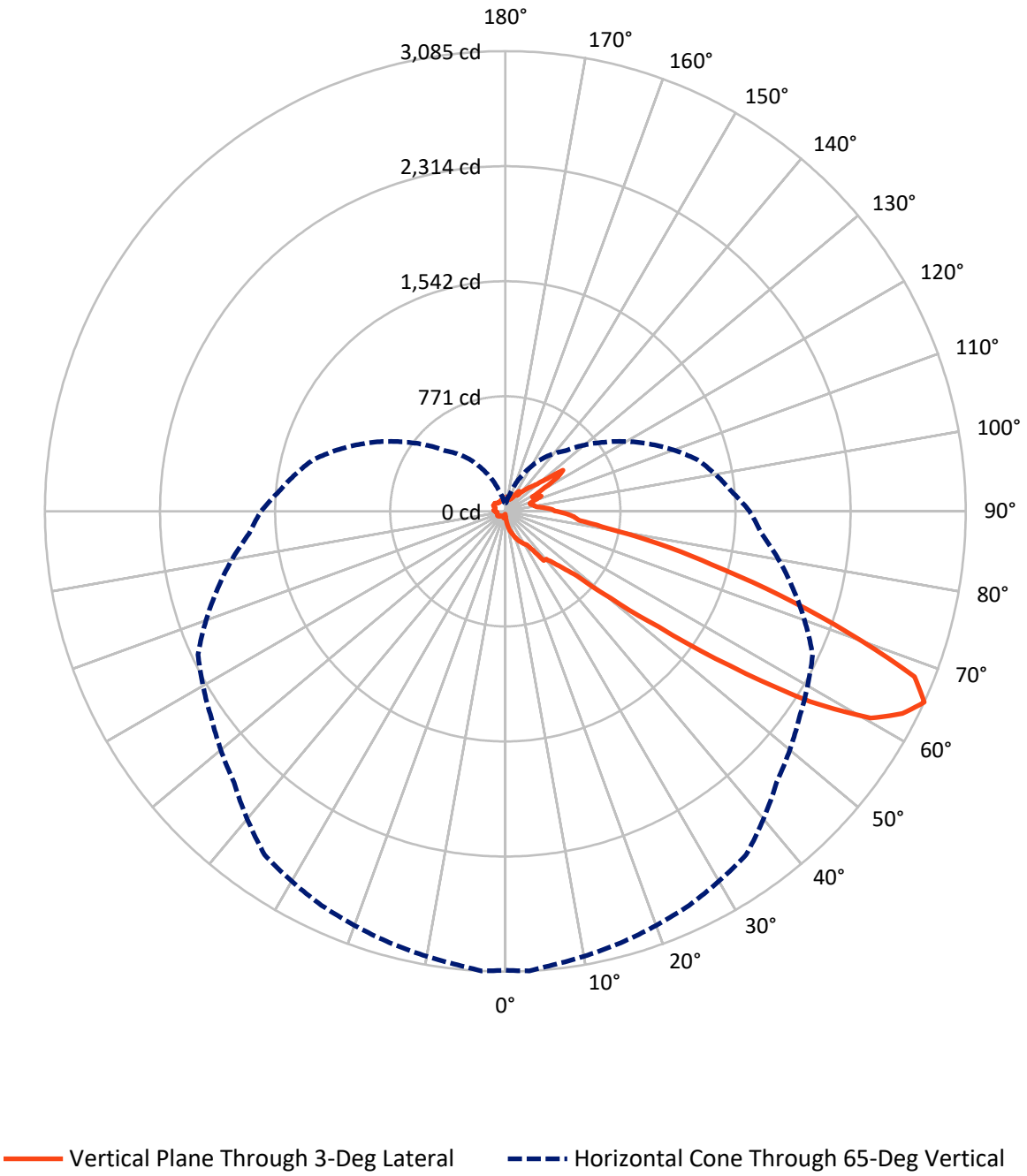
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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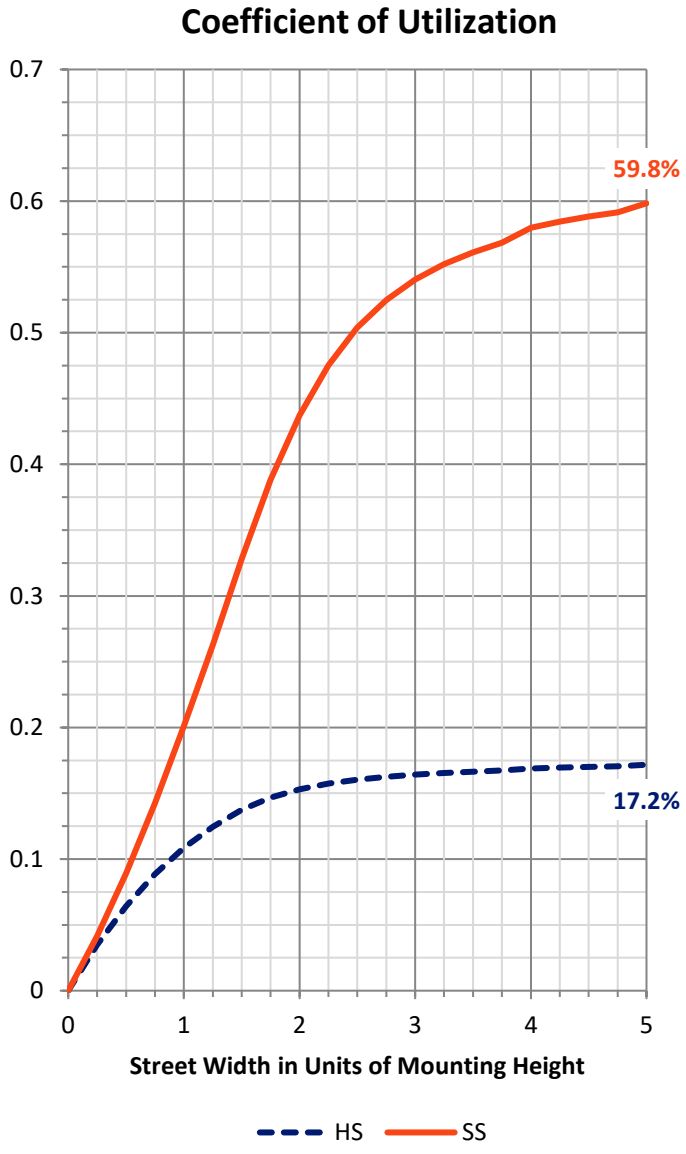
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.4	349.3	1246.7
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	3136.9	650.1	3787.0
	% Fixture	62.3	12.9	75.2
Total	Lumens	4034.3	999.4	5033.6
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	28.5	0.6
20°-30°	62.8	1.2
30°-40°	125.3	2.5
40°-50°	270.5	5.4
50°-60°	925.0	18.4
60°-70°	1503.2	29.9
70°-80°	808.8	16.1
80°-90°	304.8	6.1
90°-100°	192.3	3.8
100°-110°	136.6	2.7
110°-120°	150.8	3.0
120°-130°	230.4	4.6
130°-140°	138.2	2.7
140°-150°	76.3	1.5
150°-160°	42.5	0.8
160°-170°	23.5	0.5
170°-180°	8.7	0.2
0°-90°	4034.3	80.1
0°-180°	5033.6	100.0



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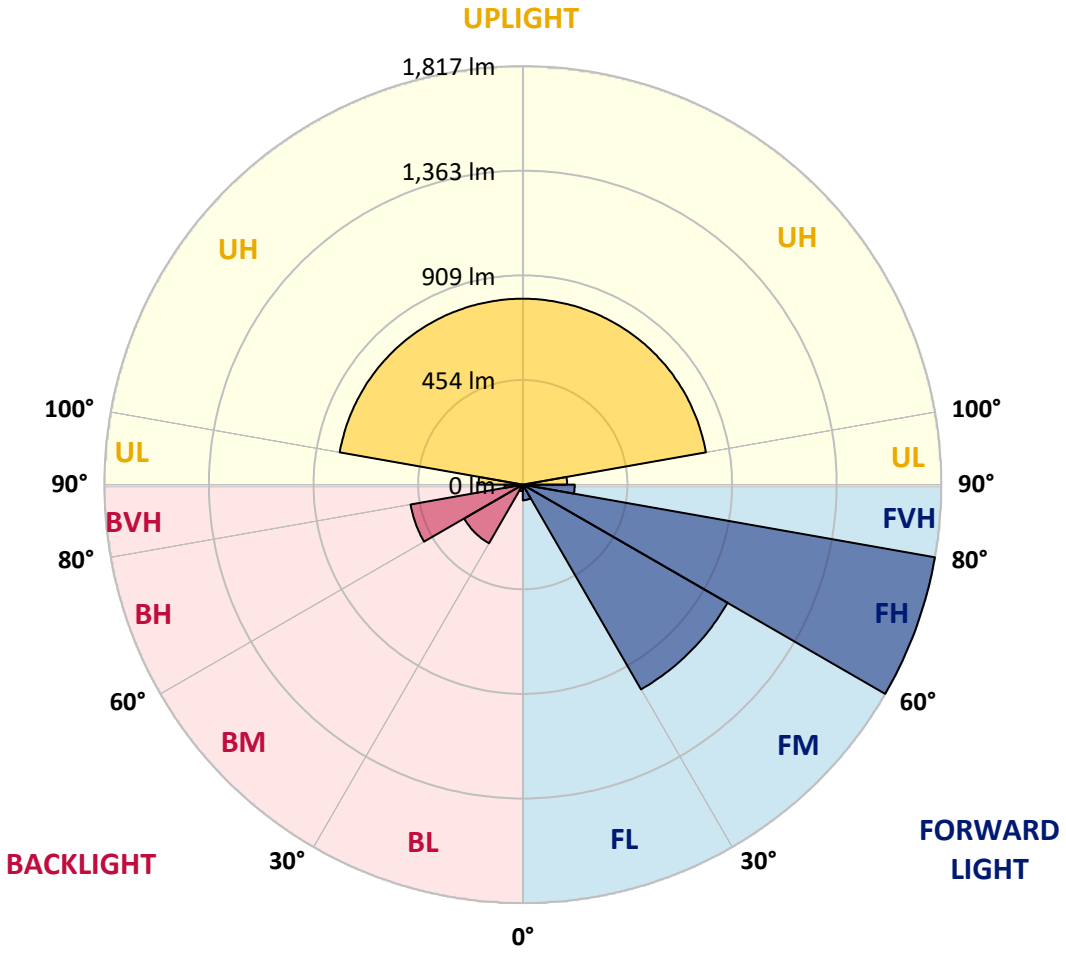
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	67.9	1.3			
FM	(30°-60°)	1026.7	20.4			
FH	(60°-80°)	1817.1	36.1			G2/5000
FVH	(80°-90°)	225.2	4.5			G3/500
BL	(0°-30°)	28.7	0.6	B0/110		
BM	(30°-60°)	294.2	5.8	B1/1000		
BH	(60°-80°)	494.9	9.8	B1/500		G1/500
BVH	(80°-90°)	79.5	1.6			G1/100
UL	(90°-100°)	192.3	3.8		U3/500	
UH	(100°-180°)	807.1	16.0		U4/1000	

BUG Rating: B1-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
2.5°	40.0	40.6	40.6	40.6	41.7	42.3	41.7	40.0	37.8	36.7	35.5
5°	58.1	59.2	58.6	58.6	57.5	57.5	55.8	54.7	53.6	49.6	45.7
7.5°	80.6	79.5	78.9	77.8	78.4	75.6	73.3	73.3	71.6	67.7	61.5
10°	104.3	104.3	102.6	102.1	100.9	99.8	95.9	93.6	93.6	86.8	79.5
12.5°	130.3	129.7	130.3	129.1	127.4	124.6	120.1	115.0	112.2	106.0	95.3
15°	147.2	146.6	146.6	146.0	144.9	142.1	138.7	133.6	126.3	120.1	110.0
17.5°	165.2	164.1	164.1	161.3	159.0	155.6	152.8	147.7	138.7	127.4	117.8
20°	184.9	184.9	184.9	181.0	176.5	172.0	168.0	163.5	156.8	139.8	126.3
22.5°	203.6	204.1	203.6	199.6	195.7	188.3	182.1	176.5	169.7	152.8	136.5
25°	221.6	222.7	222.2	222.2	217.1	207.5	199.0	190.6	186.1	169.2	146.6
27.5°	237.4	237.9	238.5	241.3	238.5	227.8	214.3	204.1	200.7	182.1	155.1
30°	252.6	254.3	254.3	257.1	256.6	244.7	228.4	217.1	210.3	192.3	163.5
32.5°	267.3	268.4	269.0	275.7	275.2	259.4	245.3	232.9	221.6	208.1	178.2
35°	320.3	318.6	327.0	332.1	328.2	314.1	297.2	274.0	258.2	242.5	210.3
37.5°	418.9	417.8	417.8	406.5	390.8	374.4	369.9	345.6	326.5	306.2	262.2
40°	421.8	421.8	423.5	435.9	443.8	422.9	403.2	379.5	375.5	354.7	301.1
42.5°	462.9	467.4	471.9	480.4	494.5	481.0	458.4	420.6	402.6	381.2	335.5
45°	532.8	539.6	537.4	540.7	537.4	525.5	523.8	503.0	475.9	434.7	373.3
47.5°	648.4	644.5	642.2	655.8	677.8	655.8	650.7	617.4	565.5	513.1	443.2
50°	932.6	915.7	933.2	930.4	926.4	906.1	890.9	857.6	773.0	687.9	587.0
52.5°	1313.2	1285.6	1301.4	1312.1	1300.8	1272.1	1226.4	1161.5	1047.6	937.7	804.6
55°	1866.4	1828.0	1833.1	1846.6	1854.5	1789.1	1723.7	1580.5	1409.6	1239.9	1095.6
57.5°	2477.0	2408.2	2453.3	2377.8	2346.8	2230.0	2174.8	2029.9	1829.1	1602.5	1369.6
60°	2821.0	2813.6	2805.2	2746.5	2713.8	2583.0	2453.3	2317.4	2137.6	1869.7	1597.4
62.5°	2970.4	2986.2	2973.8	2943.3	2914.0	2799.0	2573.4	2412.2	2266.1	1991.0	1719.2
65°	3075.8	3084.9	3064.0	2993.5	2914.0	2811.4	2570.6	2406.0	2272.3	1994.9	1724.3
67.5°	2955.2	2956.9	2931.5	2840.1	2678.9	2588.7	2355.2	2211.4	2080.6	1843.8	1590.6
70°	2434.2	2439.2	2423.5	2342.3	2206.9	2128.6	1903.6	1755.8	1657.2	1493.7	1307.0
72.5°	1897.4	1919.4	1896.8	1864.7	1736.1	1678.0	1526.9	1407.4	1316.6	1162.7	1012.1
75°	1426.6	1431.6	1432.2	1396.1	1328.4	1315.5	1211.7	1132.8	1053.8	927.5	817.0
77.5°	1034.7	1057.2	1049.3	1043.1	954.6	959.7	918.5	871.7	822.1	738.1	659.1
80°	686.8	698.6	684.5	687.9	676.1	673.2	634.9	603.3	572.9	534.0	503.0
82.5°	500.7	498.4	497.3	491.1	482.1	483.8	464.6	425.7	389.1	381.2	352.4
85°	462.9	461.2	459.5	448.3	429.1	417.3	406.5	390.8	368.2	332.7	295.5
87.5°	404.8	405.4	401.5	389.6	377.2	373.8	365.4	355.2	344.0	317.5	284.7
90°	333.2	331.5	332.1	325.3	327.6	326.5	313.5	301.1	296.6	274.0	254.9
92.5°	307.9	306.2	306.7	301.7	293.8	292.1	278.0	262.8	256.0	241.9	227.2
95°	257.1	257.1	254.9	252.6	248.7	243.0	235.7	225.5	220.5	209.2	194.5
97.5°	216.0	213.7	215.4	211.4	208.1	205.8	200.2	190.0	184.9	176.5	165.2
100°	200.7	200.7	200.2	198.5	190.0	185.5	179.3	169.7	165.8	158.4	150.0
102.5°	192.3	191.7	191.1	189.5	181.6	173.7	165.8	160.1	155.6	149.4	140.4
105°	175.9	175.9	177.1	176.5	170.8	165.8	157.3	152.2	147.7	141.5	133.1
107.5°	174.2	173.7	173.7	166.9	159.6	156.8	150.5	146.0	142.1	135.9	126.3
110°	199.6	200.7	202.4	191.1	173.7	166.3	157.3	152.2	147.7	139.8	129.7

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	261.6	*261.6*	260.5	254.3	223.9	203.6	199.0	186.1	178.7	166.9	152.8
115°	235.1	*235.7*	235.1	236.8	234.6	209.2	213.7	192.3	204.7	177.1	167.5
117.5°	205.2	*204.7*	202.4	203.0	205.2	221.6	186.1	181.0	186.1	161.3	152.8
120°	286.4	*281.4*	286.4	265.6	262.2	265.0	244.7	240.8	219.3	189.5	166.9
122.5°	421.8	*413.9*	425.1	417.8	423.5	404.8	385.1	368.8	345.1	294.9	249.8
125°	476.5	*474.8*	471.9	461.8	452.8	444.9	448.3	454.5	441.5	400.9	348.5
127.5°	350.7	*355.2*	353.5	373.8	393.6	389.1	377.2	382.9	389.6	387.4	356.4
130°	279.7	*283.6*	285.9	305.6	322.5	322.5	303.4	298.3	303.9	315.8	303.9
132.5°	245.3	*246.4*	247.5	254.3	268.4	275.2	263.3	255.4	257.7	263.9	253.7
135°	221.0	*220.5*	218.8	214.3	215.4	222.2	227.2	226.1	224.4	224.4	218.8
137.5°	191.7	*191.1*	191.1	184.4	181.6	187.2	194.5	201.3	196.8	190.6	183.8
140°	159.6	*159.0*	159.6	163.5	164.6	165.2	169.2	169.2	169.2	168.6	165.8
142.5°	132.5	*133.1*	134.2	144.3	149.4	149.4	144.3	139.8	139.3	142.7	143.2
145°	163.0	*163.0*	163.5	163.0	159.6	156.2	152.8	152.8	149.4	141.5	137.6
147.5°	145.5	*147.7*	146.0	147.7	148.9	149.4	148.9	150.5	151.1	146.6	140.4
150°	114.5	*113.9*	112.8	114.5	117.3	120.7	121.8	122.9	123.5	123.5	123.5
152.5°	99.2	*99.8*	99.2	100.9	102.6	103.2	104.9	104.9	105.4	104.9	103.7
155°	96.4	*96.4*	96.4	96.4	97.0	98.1	100.4	101.5	100.4	98.7	95.9
157.5°	89.7	*89.7*	89.7	90.2	91.3	92.5	94.2	95.3	95.3	94.2	91.9
160°	85.7	*85.7*	85.7	85.7	86.8	88.0	89.1	90.2	90.2	89.7	88.0
162.5°	81.2	*81.2*	81.2	81.8	82.9	84.0	85.1	86.3	85.7	85.7	84.6
165°	80.6	*80.6*	80.6	81.2	82.3	84.0	84.6	84.6	85.1	85.1	85.1
167.5°	82.9	*82.9*	83.5	83.5	84.6	85.1	86.3	86.8	87.4	86.8	86.8
170°	86.3	*86.3*	86.3	86.8	87.4	87.4	88.0	88.0	88.5	88.5	88.5
172.5°	90.8	*90.8*	90.8	90.8	90.2	90.2	90.2	90.2	90.8	90.2	90.8
175°	95.9	*95.9*	95.9	95.3	94.7	94.7	94.2	94.2	93.6	93.0	93.0
177.5°	96.4	*96.4*	96.4	96.4	95.9	95.3	95.3	94.7	94.2	94.2	94.2
180°	94.2	*94.2*	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
2.5°	34.4	33.3	30.4	28.2	26.5	24.2	22.6	20.9	19.7	19.2	18.6
5°	45.1	42.9	39.5	36.1	33.3	29.3	27.1	23.1	20.3	19.2	18.6
7.5°	59.2	57.5	55.8	55.3	54.1	49.1	41.7	36.1	35.0	33.8	35.0
10°	75.6	72.2	67.1	69.9	69.9	60.3	50.2	44.5	44.0	46.2	46.8
12.5°	90.8	86.3	80.1	79.5	73.3	60.3	49.6	44.0	43.4	44.0	44.5
15°	104.9	99.8	93.0	87.4	77.8	64.3	51.9	44.5	42.9	44.5	44.5
17.5°	112.8	107.7	98.1	87.4	76.1	63.7	51.3	43.4	39.5	37.2	37.2
20°	122.4	118.4	105.4	91.9	76.7	63.2	50.7	42.3	37.8	35.5	35.0
22.5°	130.8	126.3	112.2	97.5	80.1	63.2	49.1	41.7	37.8	35.5	35.0
25°	141.0	134.2	120.1	103.7	82.9	63.2	49.1	42.3	38.3	36.1	35.5
27.5°	147.7	139.8	126.3	108.3	86.3	64.3	50.7	42.9	38.3	36.1	36.1
30°	154.5	147.2	131.4	114.5	90.2	67.1	53.6	45.1	40.0	37.2	37.2
32.5°	168.0	158.4	139.3	119.5	93.6	69.4	56.4	47.4	41.7	38.9	38.9
35°	198.5	184.9	161.8	134.2	98.1	71.6	59.2	50.2	42.9	39.5	39.5
37.5°	244.7	227.8	199.6	161.8	109.4	75.0	61.5	51.3	44.0	41.2	40.6
40°	275.2	254.3	220.5	183.8	125.7	80.6	64.3	53.0	45.1	41.7	41.2
42.5°	311.8	286.4	241.3	190.6	134.2	92.5	69.9	55.8	46.8	42.3	41.7
45°	345.1	323.7	281.4	222.7	158.4	110.0	80.1	60.9	49.6	44.0	43.4
47.5°	412.7	379.5	323.1	262.8	188.9	136.5	97.5	68.8	54.1	46.2	45.1
50°	544.7	510.3	442.1	348.5	244.1	173.7	125.7	83.5	59.8	48.5	46.8
52.5°	739.8	676.6	600.5	474.2	346.2	250.9	178.2	117.8	71.0	50.7	47.9
55°	1000.8	964.8	830.0	669.3	493.4	375.5	274.0	183.3	106.0	53.6	48.5
57.5°	1300.3	1228.6	1105.7	905.6	659.7	478.1	370.5	272.9	156.2	62.6	51.3
60°	1493.1	1418.7	1277.7	1075.3	802.9	570.1	422.3	303.9	177.1	64.3	53.6
62.5°	1617.7	1513.4	1334.6	1097.8	844.7	607.8	446.0	288.7	151.1	62.6	55.3
65°	*1636.9*	*1523.5*	*1334.6*	*1066.8*	*806.9*	*576.8*	*431.3*	*266.7*	*119.0*	*59.8*	*57.5*
67.5°	1523.5	1400.6	1243.9	978.3	724.0	494.5	370.5	217.6	90.2	58.1	56.9
70°	1233.7	1156.5	1013.8	797.3	578.0	404.8	294.9	166.9	73.3	56.4	55.8
72.5°	942.8	886.9	787.1	621.4	445.4	312.4	225.0	131.4	66.0	55.3	54.7
75°	750.5	699.7	618.5	478.7	340.0	240.8	168.0	100.9	60.3	55.3	54.1
77.5°	619.1	574.6	501.3	379.5	248.1	179.9	127.4	81.8	59.2	55.3	54.7
80°	476.5	444.3	389.6	275.7	177.6	134.8	101.5	72.7	59.2	56.4	55.8
82.5°	337.7	325.3	284.2	214.8	149.4	117.3	93.6	71.6	60.3	57.5	56.9
85°	280.8	266.1	236.8	187.2	139.3	113.3	92.5	73.3	63.2	60.9	60.3
87.5°	270.7	261.1	232.3	181.0	133.6	108.3	88.5	71.6	63.2	62.0	62.6
90°	244.7	234.0	212.0	168.6	128.0	107.7	90.2	74.4	65.4	64.3	63.7
92.5°	222.2	216.0	196.8	163.0	131.9	111.6	95.3	81.2	73.9	71.6	71.6
95°	190.0	183.8	173.1	149.4	125.7	109.4	95.3	82.9	76.7	75.6	75.0
97.5°	161.8	157.9	148.9	130.3	111.6	98.1	85.7	76.1	71.0	69.4	69.4
100°	147.7	144.3	137.0	124.6	110.5	99.2	89.1	80.6	76.1	75.0	75.0
102.5°	137.6	134.8	128.0	119.0	106.6	97.5	89.1	81.8	76.7	75.6	76.1
105°	129.1	126.3	119.5	110.5	100.4	90.8	84.6	78.9	73.3	71.6	71.6
107.5°	122.9	120.1	114.5	105.4	97.0	88.5	81.8	77.2	72.7	71.6	71.6
110°	125.7	121.8	113.3	103.7	96.4	89.1	83.5	78.9	75.6	73.9	73.9

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

Scaled Data Report

REPORT NUMBER: P1045791
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	147.2	141.0	126.9	113.3	103.7	95.3	89.1	82.9	80.1	77.8	77.8
115°	161.3	155.1	141.0	124.6	110.5	98.7	90.2	85.1	81.8	84.0	82.9
117.5°	147.2	142.7	131.9	120.1	108.8	98.7	91.3	88.0	85.7	88.5	89.7
120°	161.8	153.4	144.9	131.4	110.5	96.4	91.3	90.2	90.2	88.0	88.0
122.5°	231.2	217.1	185.5	162.4	133.6	117.8	108.3	99.2	90.2	86.8	86.3
125°	323.7	297.2	257.1	216.5	177.1	143.8	116.2	99.2	90.8	85.7	84.6
127.5°	340.6	317.5	280.8	231.7	178.2	140.4	115.6	102.6	93.0	87.4	86.8
130°	287.6	276.3	243.6	201.3	160.1	130.8	114.5	102.6	93.6	88.5	87.4
132.5°	244.1	236.3	205.8	172.0	142.7	121.2	106.6	93.6	85.1	80.6	79.5
135°	209.8	204.7	178.2	153.9	131.9	114.5	99.2	86.8	80.1	77.2	76.7
137.5°	179.9	174.8	156.8	139.8	122.9	107.7	95.3	84.6	78.4	76.7	76.1
140°	161.3	156.8	145.5	127.4	111.1	95.3	86.3	79.5	76.1	75.0	74.4
142.5°	140.4	135.3	122.9	110.0	98.7	86.3	80.1	77.2	75.6	74.4	73.9
145°	133.1	129.7	115.6	103.7	93.0	86.8	83.5	79.5	76.1	73.9	73.3
147.5°	134.8	130.8	118.4	107.1	97.5	90.8	85.1	79.5	75.0	72.7	72.2
150°	120.7	119.5	112.2	103.2	94.2	86.8	81.2	76.7	73.9	73.3	73.3
152.5°	100.9	100.4	97.0	91.9	85.7	80.1	76.1	73.9	73.9	75.0	75.6
155°	94.7	93.0	90.8	87.4	82.3	78.4	75.6	74.4	75.0	76.1	76.1
157.5°	91.3	89.7	87.4	84.6	81.8	78.4	76.1	75.6	76.7	77.8	77.8
160°	86.8	85.7	84.0	81.2	78.9	77.2	76.1	76.1	76.7	77.2	77.2
162.5°	84.0	82.9	81.2	79.5	78.4	77.8	77.2	76.7	77.2	77.8	77.8
165°	84.0	83.5	81.2	79.5	78.9	78.9	78.9	78.9	78.9	78.4	78.4
167.5°	86.3	85.7	84.0	82.9	82.3	82.9	82.9	82.3	81.8	80.6	80.6
170°	88.5	88.0	87.4	86.8	86.3	86.8	86.8	86.8	86.3	86.3	85.7
172.5°	90.8	90.2	89.7	89.1	89.1	89.1	89.7	90.2	90.2	90.2	90.2
175°	93.0	93.0	91.9	91.3	91.3	91.3	91.9	91.9	92.5	92.5	92.5
177.5°	94.2	94.2	94.2	94.2	94.7	94.2	94.2	93.6	93.6	93.6	93.6
180°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

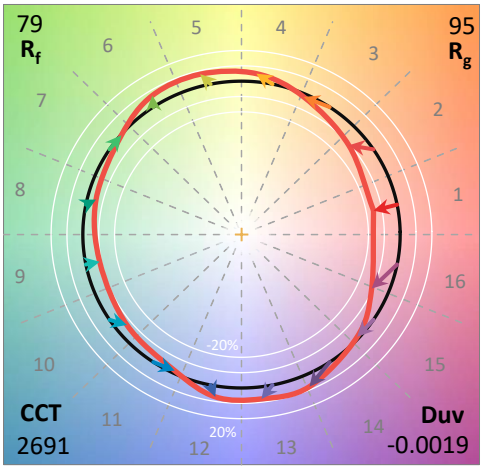
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

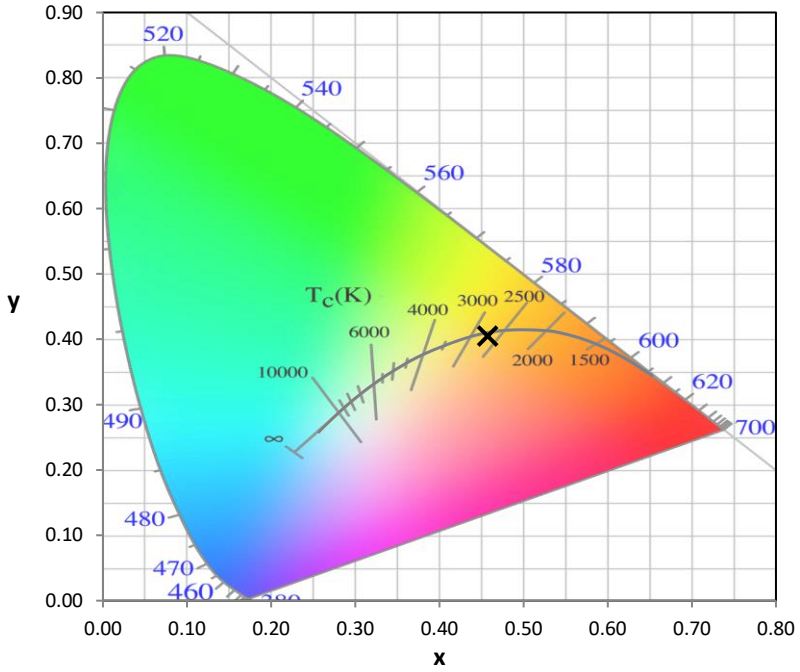
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

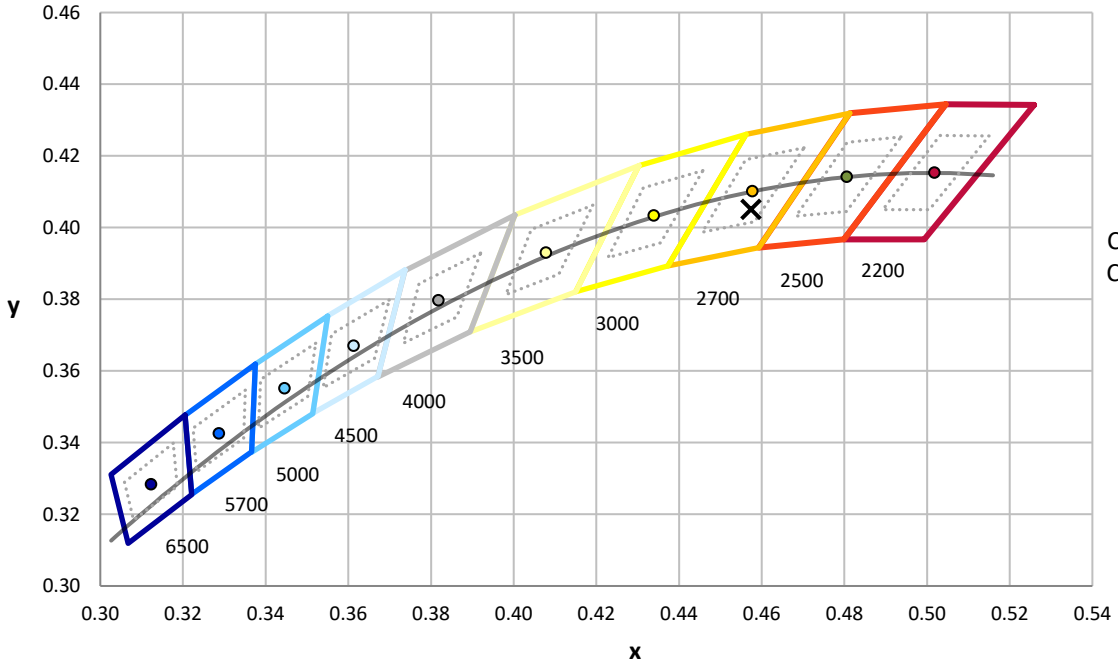
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

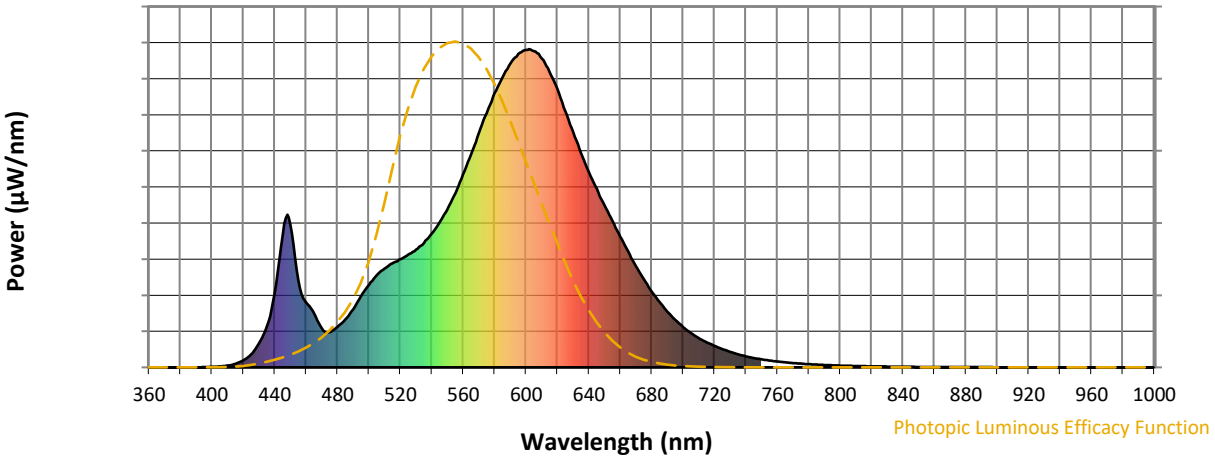


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

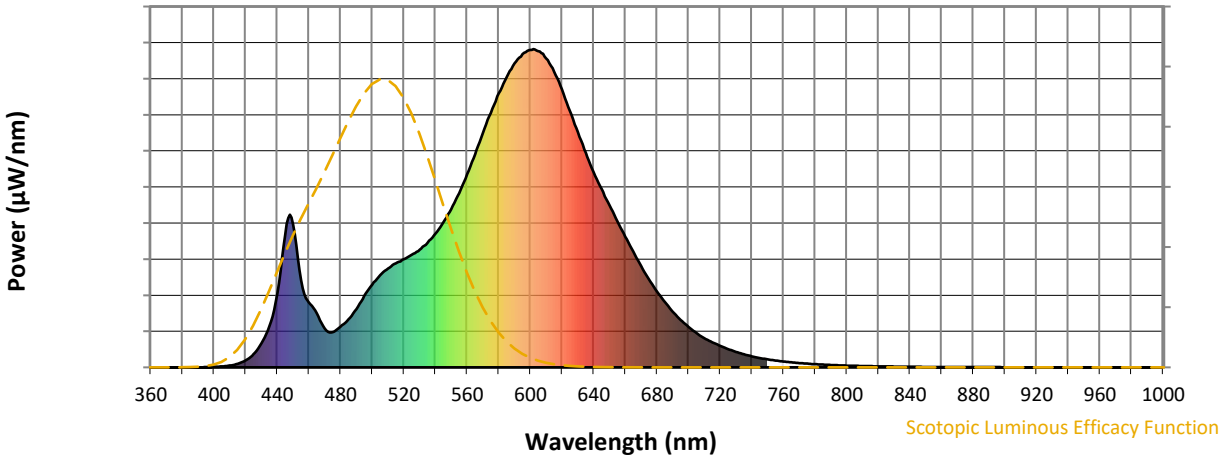


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

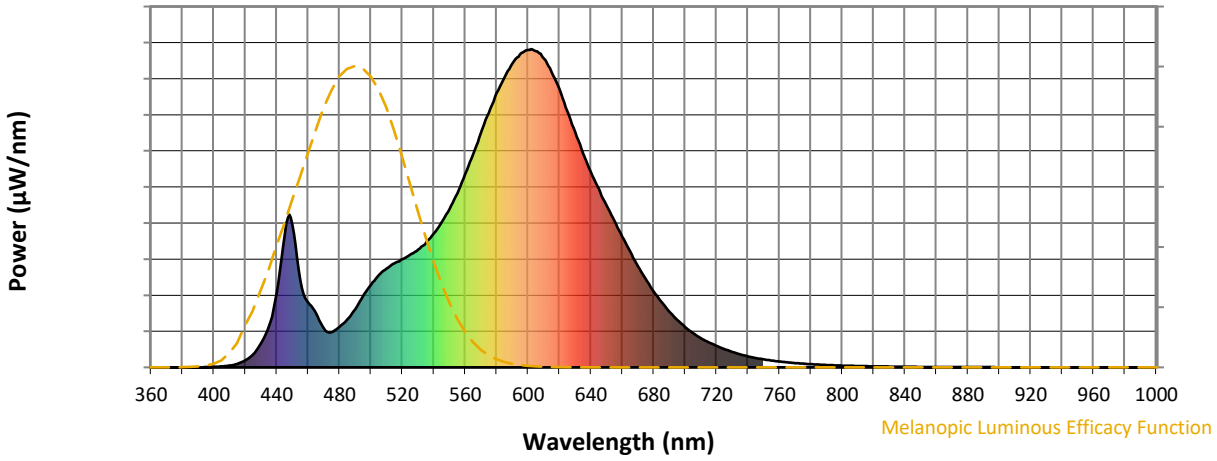


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

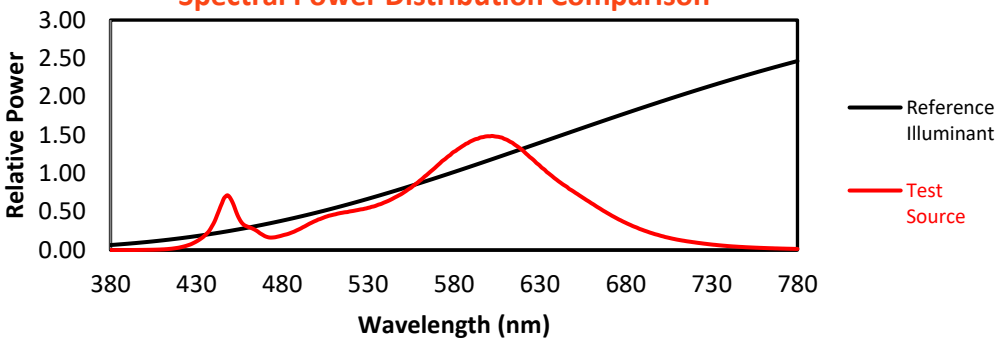
REPORT NUMBER: SP1-2501-332-8

TM-30-18

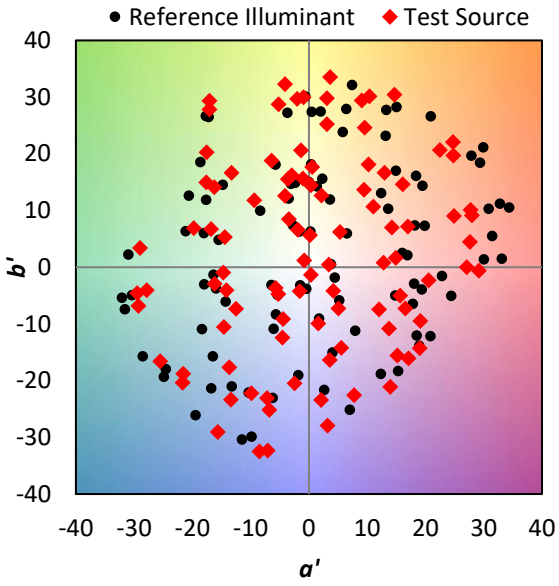
Summary

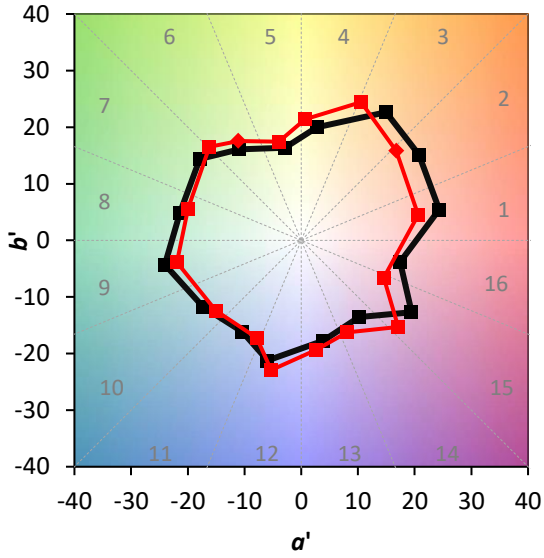
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

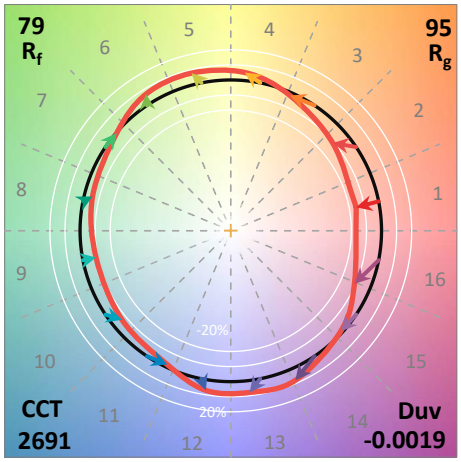
Spectral Power Distribution Comparison

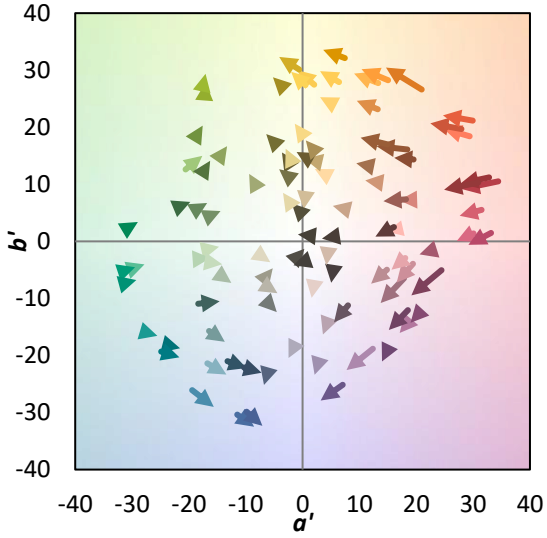


Color Vector Graphics







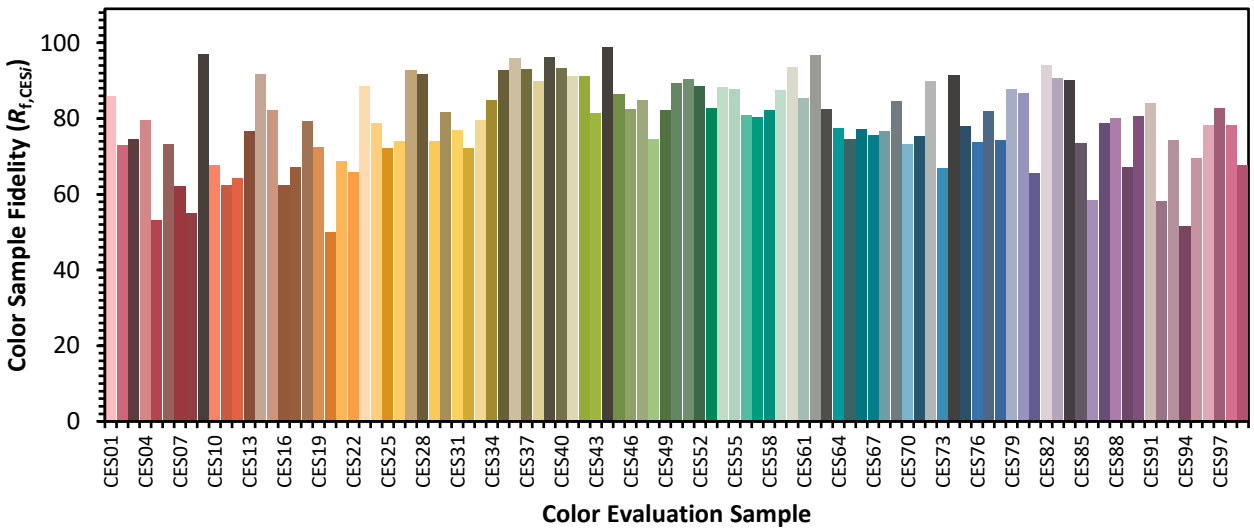


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

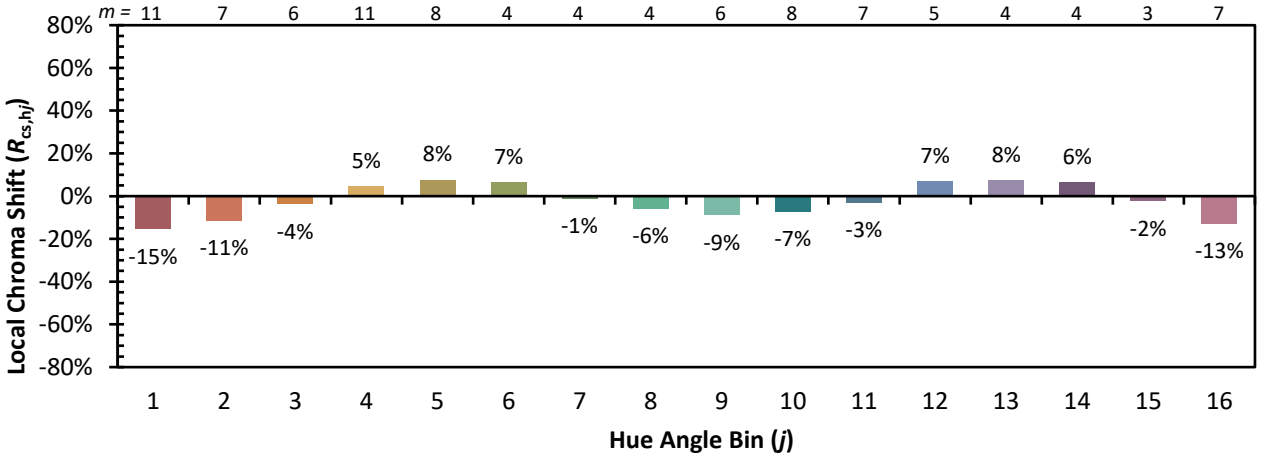
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

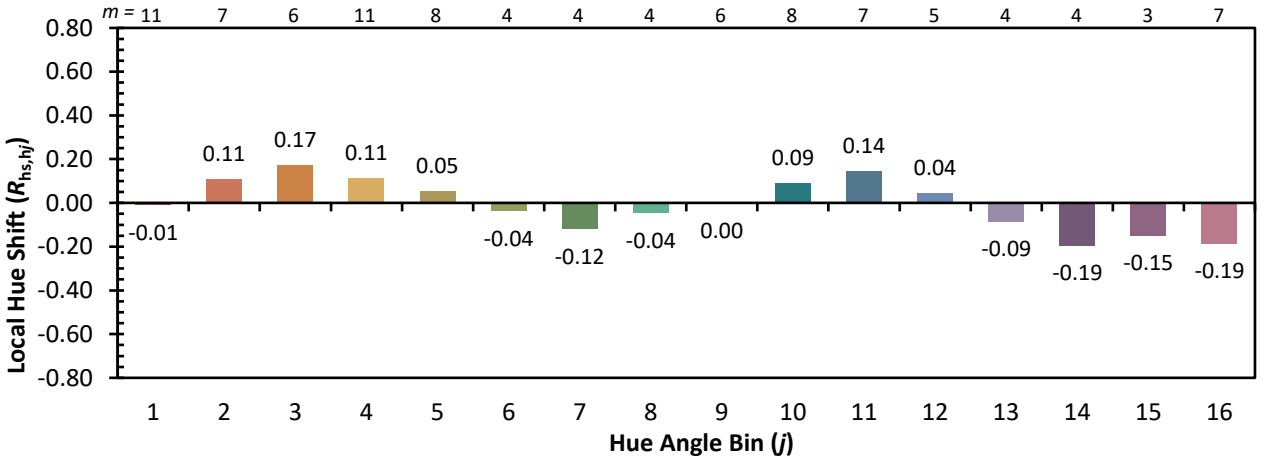


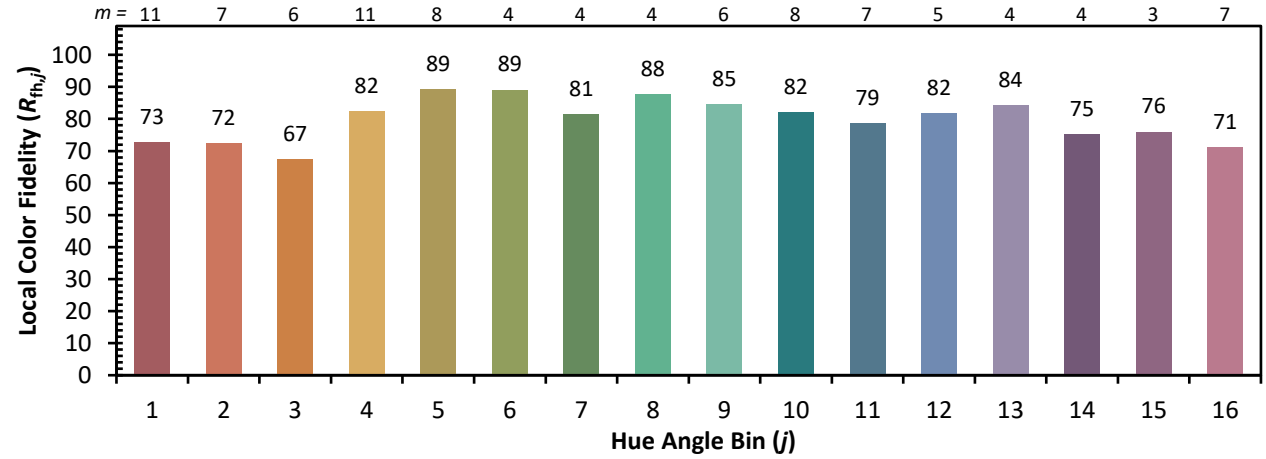
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Color Rendition by Hue-Angle Bin



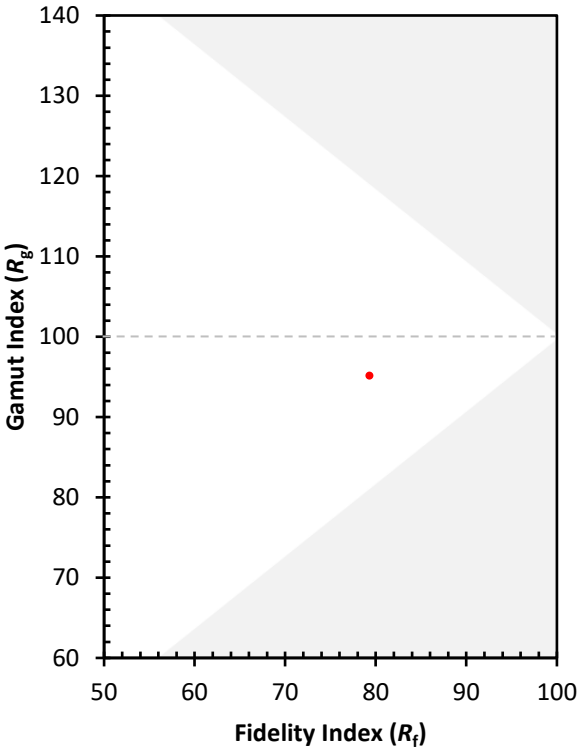


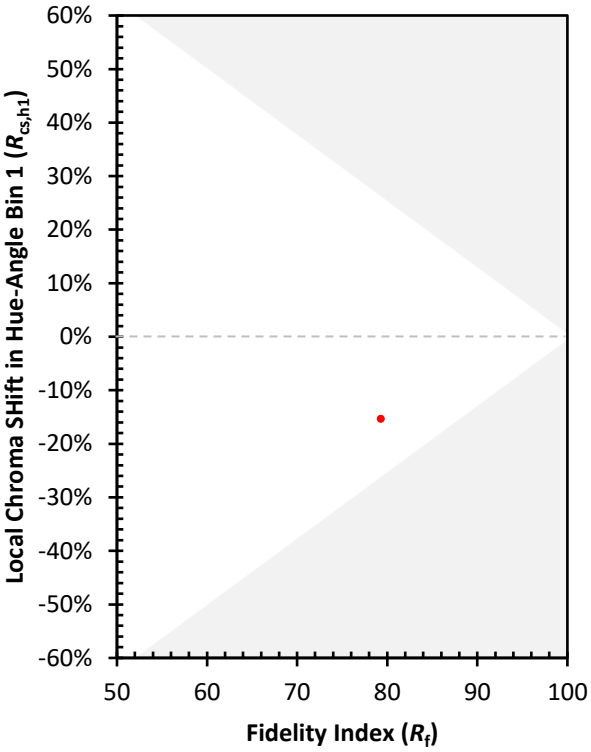


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Measure Comparisons





(END OF REPORT)