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: P1046199

Luminaire Tested: **FFX-CLB-20-727-U-FR-T4-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046199
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2809.6 lumens
Efficiency:	N/A
Efficacy:	141.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

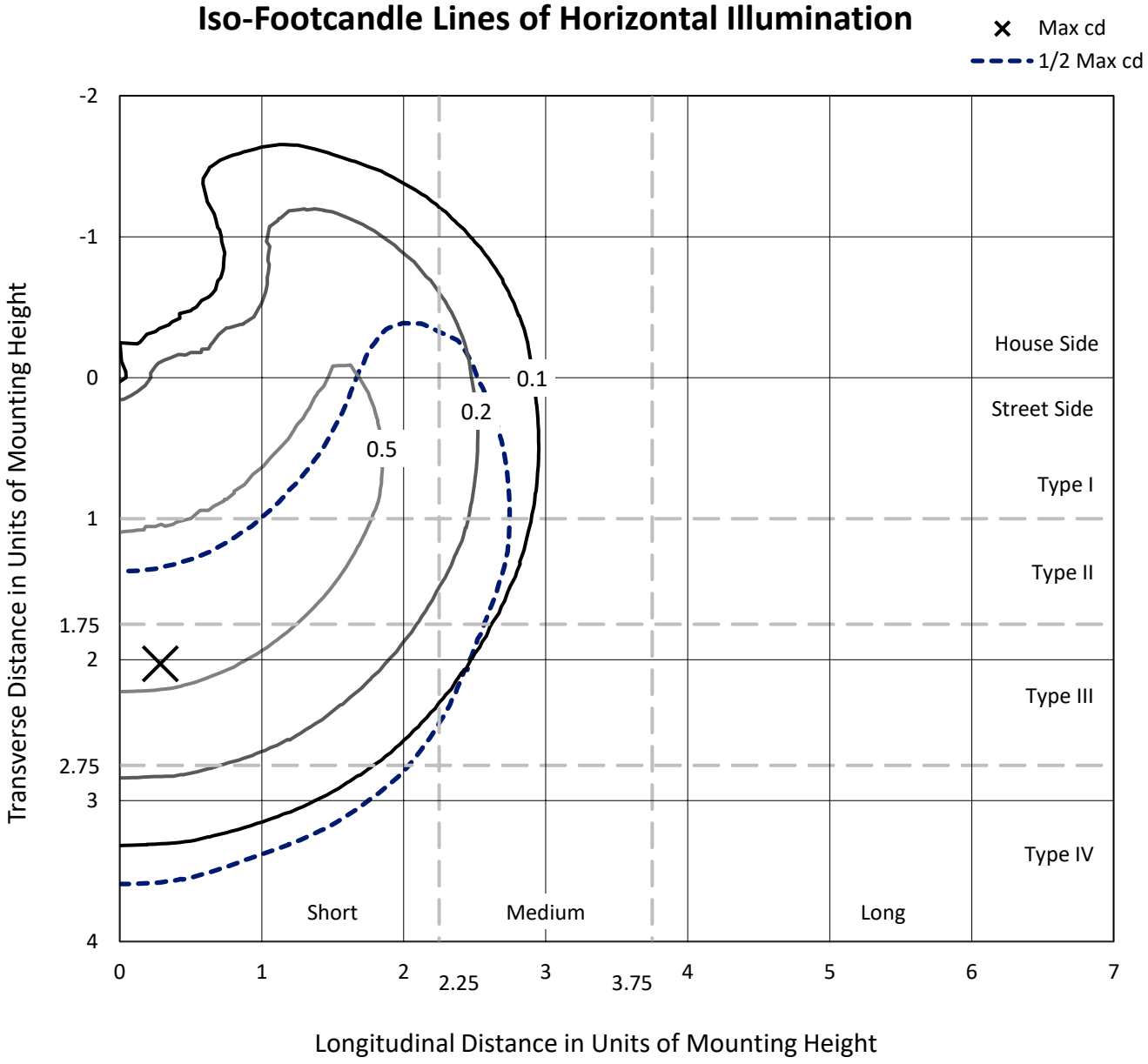


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Iso-Footcandle Lines of Horizontal Illumination



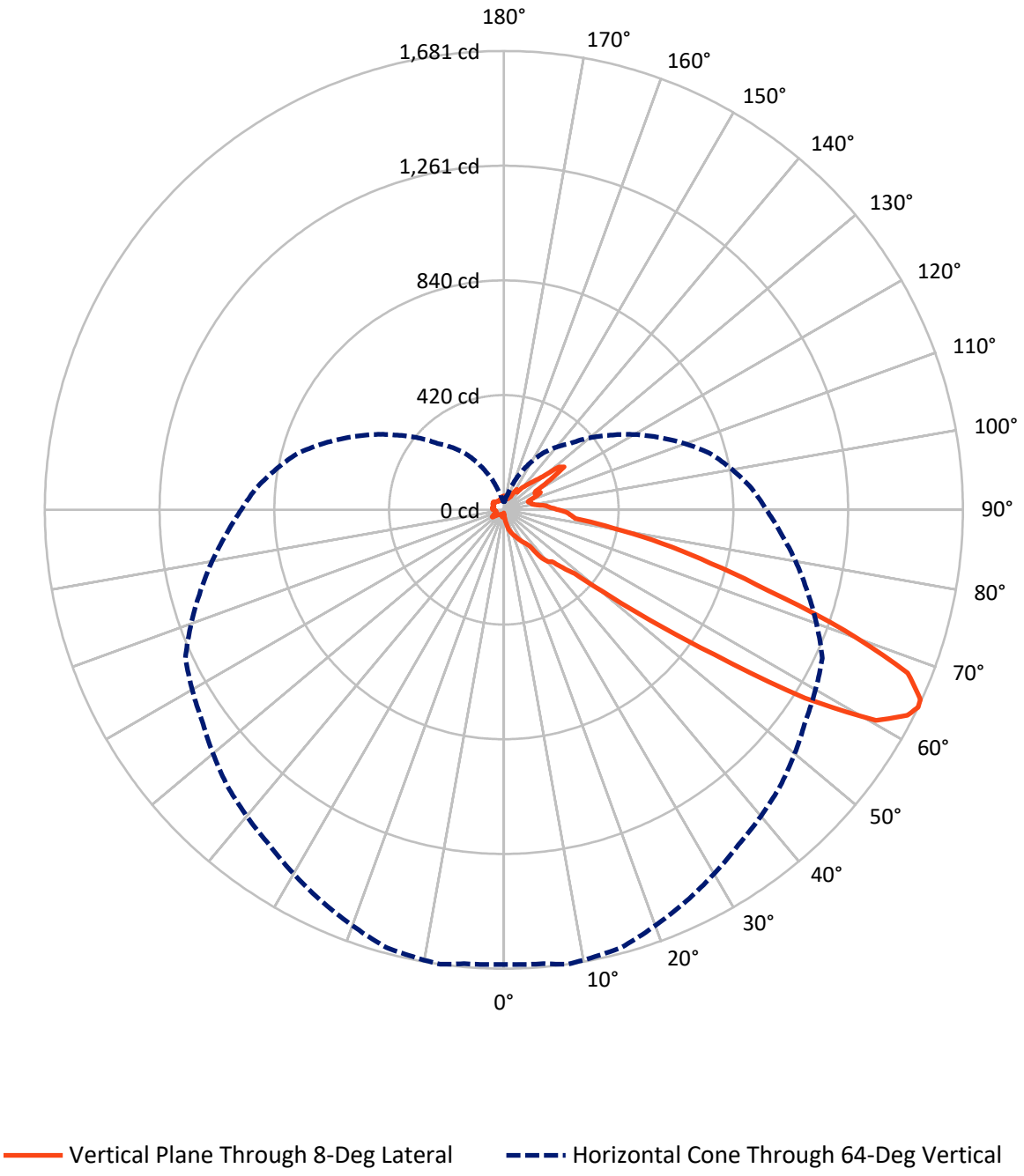
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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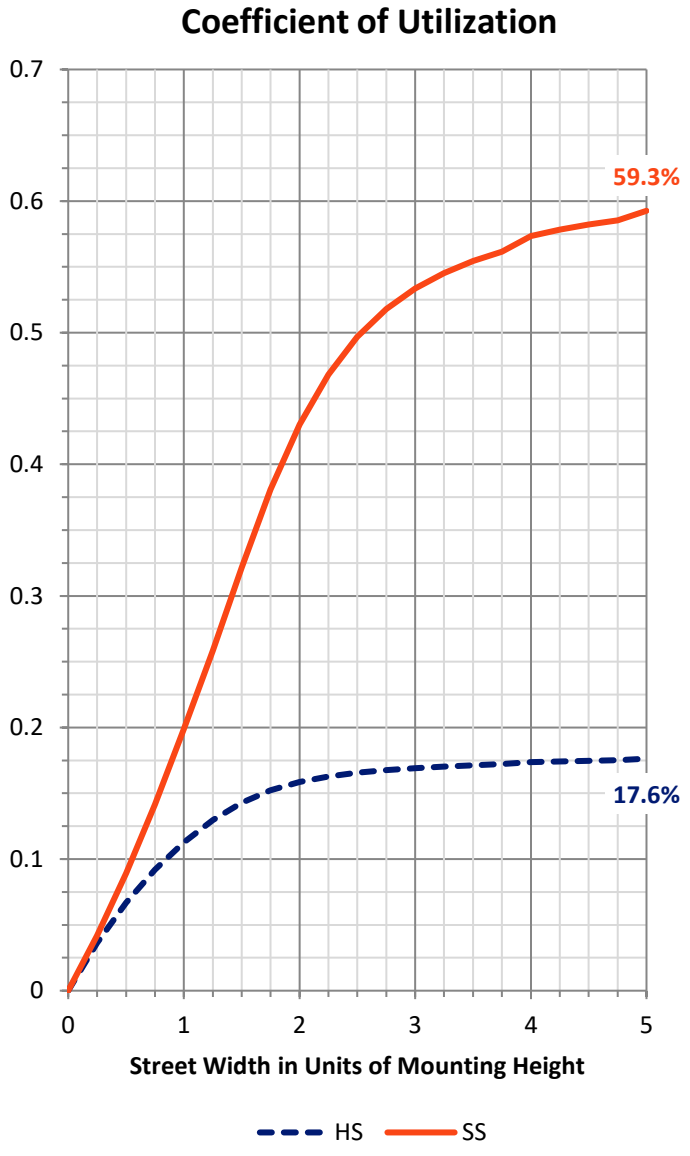
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.8	191.9	705.8
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	1736.3	367.5	2103.8
	% Fixture	61.8	13.1	74.9
Total	Lumens	2250.1	559.5	2809.6
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	15.5	0.6
20°-30°	33.6	1.2
30°-40°	67.1	2.4
40°-50°	145.3	5.2
50°-60°	503.6	17.9
60°-70°	847.1	30.2
70°-80°	460.7	16.4
80°-90°	174.4	6.2
90°-100°	110.0	3.9
100°-110°	74.2	2.6
110°-120°	80.3	2.9
120°-130°	132.2	4.7
130°-140°	81.4	2.9
140°-150°	42.6	1.5
150°-160°	22.2	0.8
160°-170°	12.1	0.4
170°-180°	4.5	0.2
0°-90°	2250.1	80.1
0°-180°	2809.6	100.0



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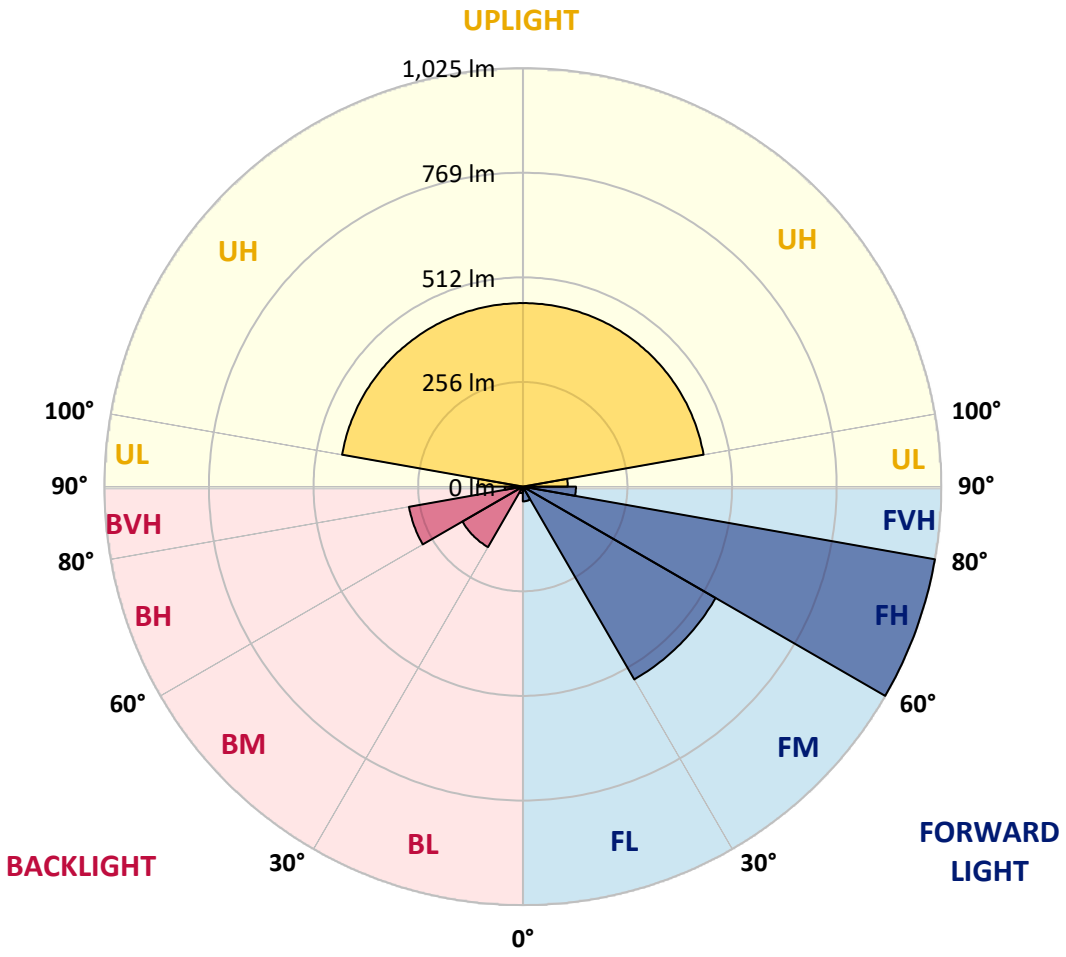
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	36.1	1.3			
FM	(30°-60°)	545.2	19.4			
FH	(60°-80°)	1024.8	36.5			G1/1800
FVH	(80°-90°)	130.1	4.6			G2/225
BL	(0°-30°)	15.8	0.6	B0/110		
BM	(30°-60°)	170.8	6.1	B0/220		
BH	(60°-80°)	283.0	10.1	B1/500		G1/500
BVH	(80°-90°)	44.3	1.6			G1/100
UL	(90°-100°)	110.0	3.9		U3/500	
UH	(100°-180°)	449.4	16.0		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	19.6	19.6	19.6	20.2	20.6	20.8	20.2	19.8	19.6	19.4	18.8
5°	28.2	28.4	28.4	28.9	28.6	28.9	28.2	27.6	26.6	25.4	24.5
7.5°	39.8	39.8	39.6	39.8	39.6	38.8	38.8	39.4	37.9	35.5	33.4
10°	54.0	54.4	54.2	53.4	52.2	51.3	51.3	52.1	49.7	45.6	42.5
12.5°	68.4	69.1	68.4	68.6	66.6	65.8	64.3	63.9	60.8	56.9	51.5
15°	79.0	79.6	79.8	80.4	80.2	77.7	75.0	72.1	69.5	66.0	60.4
17.5°	87.6	87.8	88.2	88.0	86.8	84.3	81.2	78.1	74.0	70.3	65.1
20°	95.9	96.7	96.5	96.3	95.8	93.8	90.1	85.7	82.2	76.7	71.3
22.5°	104.5	103.9	104.3	104.1	104.1	102.2	98.3	93.0	88.4	82.9	78.1
25°	114.4	114.2	114.4	113.8	113.0	112.1	107.2	101.2	95.9	90.3	83.5
27.5°	124.9	125.1	125.3	124.3	123.3	121.8	114.8	108.8	103.1	96.1	86.6
30°	136.5	136.0	136.2	134.8	134.2	129.4	122.6	115.4	109.2	99.8	90.5
32.5°	147.2	146.3	146.1	144.9	143.9	136.9	129.9	122.9	115.6	106.0	97.9
35°	162.2	164.1	163.3	163.3	165.9	155.2	147.0	140.2	132.3	122.4	113.8
37.5°	223.2	222.8	220.4	217.3	208.6	201.0	197.3	186.7	173.8	163.0	149.4
40°	252.7	251.5	249.0	242.8	236.6	227.6	222.0	215.4	208.8	189.6	167.8
42.5°	259.7	258.7	259.3	266.7	274.8	268.2	246.3	222.4	210.7	197.7	186.8
45°	297.9	301.2	302.2	302.0	296.2	289.2	279.7	265.3	245.1	226.7	203.9
47.5°	346.5	346.1	348.4	345.3	350.2	338.0	325.7	310.8	289.8	264.7	237.5
50°	473.5	469.4	470.0	471.2	463.8	454.9	443.8	435.5	394.5	358.9	317.6
52.5°	675.3	675.9	671.6	671.4	649.5	632.2	612.8	613.6	553.3	505.6	445.7
55°	949.2	949.6	934.2	946.9	922.2	919.9	876.9	821.6	740.6	675.5	615.3
57.5°	1290.2	1301.9	1300.5	1278.0	1240.3	1219.9	1150.6	1092.5	977.9	875.8	794.0
60°	1580.8	1575.4	1566.4	1549.3	1436.5	1389.1	1338.0	1288.5	1193.5	1052.1	929.8
62.5°	1663.7	1659.7	1658.1	1649.6	1560.4	1482.3	1418.0	1337.1	1273.5	1134.9	1010.2
64°	1665.1	1668.8	1680.8	1660.4	1581.2	1497.9	1431.3	1348.5	1286.7	1150.0	1019.9
65°	1662.0	1661.2	1676.4	1650.5	1580.2	1497.1	1423.1	1343.8	1282.7	1145.9	1017.4
67.5°	1578.7	1575.4	1594.8	1561.6	1500.2	1425.2	1352.6	1267.5	1213.7	1082.4	957.9
70°	1295.5	1295.3	1325.6	1297.8	1279.6	1200.1	1125.9	1047.8	990.4	882.6	778.5
72.5°	992.7	990.9	1011.1	990.4	981.0	943.5	874.2	805.3	750.5	669.7	585.4
75°	791.1	791.9	781.2	760.8	753.2	736.5	705.6	664.4	618.6	545.2	467.5
77.5°	592.4	588.5	593.2	564.6	562.5	557.4	557.2	530.8	492.0	445.2	383.6
80°	394.9	397.2	405.5	398.0	400.1	398.4	409.2	381.3	351.7	324.2	291.3
82.5°	255.4	261.6	264.0	274.4	283.6	287.6	272.7	244.5	226.1	216.0	201.4
85°	245.1	247.6	246.3	240.1	237.0	231.9	231.7	222.8	213.3	193.8	170.1
87.5°	226.1	229.0	227.8	222.4	215.4	214.8	213.5	207.2	202.8	187.4	166.5
90°	192.9	193.1	194.0	193.1	191.7	190.7	183.0	179.3	176.6	163.3	149.2
92.5°	167.2	169.6	169.0	167.2	162.8	165.5	157.1	150.1	148.6	139.5	128.6
95°	153.6	155.2	155.6	152.5	148.2	147.2	140.8	135.4	132.9	126.8	113.6
97.5°	127.4	126.4	125.7	124.9	122.0	118.9	114.8	108.0	105.9	99.2	91.9
100°	108.8	109.2	108.8	108.2	105.7	104.1	101.2	95.8	93.4	89.1	84.1
102.5°	103.7	103.9	103.9	104.1	99.8	96.3	93.2	89.3	87.2	83.5	78.7
105°	99.1	99.1	99.4	99.6	95.4	90.3	85.8	83.7	82.7	78.5	73.4
107.5°	93.2	93.0	93.6	91.1	86.8	84.7	80.0	77.5	77.1	73.8	68.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	101.8	99.6	*99.2*	93.0	87.2	82.4	80.0	77.7	76.3	71.9	68.6
112.5°	133.2	130.3	*129.5*	123.7	103.3	101.6	99.4	98.7	97.9	91.9	86.2
115°	146.8	146.8	*149.2*	146.8	132.7	116.5	114.2	110.7	112.1	104.7	96.5
117.5°	117.5	125.7	*128.0*	121.0	121.6	111.3	95.4	89.9	87.2	85.1	88.8
120°	131.9	137.3	*135.0*	122.2	116.3	110.3	111.1	109.2	99.4	86.0	87.4
122.5°	196.6	201.6	*203.4*	204.3	207.0	203.0	193.8	181.0	171.3	155.2	146.1
125°	275.2	271.5	*271.1*	272.9	275.0	269.8	265.9	263.4	257.3	236.2	206.5
127.5°	252.7	250.9	*253.9*	253.5	258.7	249.8	248.0	249.4	247.1	235.2	217.9
130°	181.2	184.3	*186.5*	193.4	203.7	195.8	188.4	177.3	176.6	182.4	173.2
132.5°	152.1	153.4	*157.3*	166.5	174.2	170.9	160.0	149.4	148.6	153.4	152.7
135°	134.4	135.4	*136.0*	136.3	135.0	138.1	135.8	131.9	129.4	129.5	127.2
137.5°	120.0	120.4	*120.0*	116.9	113.2	112.7	118.5	118.7	116.3	112.3	109.2
140°	104.1	104.1	*102.6*	100.4	99.8	100.0	103.3	103.9	101.2	97.9	93.2
142.5°	81.4	80.4	*80.6*	84.1	90.3	89.0	84.7	79.2	78.5	82.4	80.8
145°	88.0	87.8	*87.2*	87.4	85.8	83.3	81.8	80.0	76.9	74.4	71.9
147.5°	88.8	88.0	*88.4*	87.6	86.8	85.7	85.1	85.8	85.1	83.3	80.0
150°	70.1	70.5	*70.9*	69.9	70.7	71.1	70.7	70.1	71.1	69.0	67.6
152.5°	54.8	54.6	*54.4*	54.8	54.6	55.4	55.5	55.4	55.0	54.8	52.6
155°	51.5	52.1	*51.7*	50.5	51.3	51.9	52.6	53.2	52.6	51.7	49.7
157.5°	47.4	47.4	*47.4*	47.4	47.6	47.8	48.8	49.1	49.1	48.6	47.2
160°	44.1	44.3	*44.3*	44.3	44.7	45.1	45.6	46.0	46.4	46.0	45.3
162.5°	42.1	42.0	*42.0*	42.1	42.1	42.7	43.3	44.1	44.3	43.9	43.9
165°	41.0	41.0	*41.0*	41.2	41.6	42.0	42.7	42.9	43.1	43.5	43.5
167.5°	42.3	42.3	*42.3*	42.5	42.9	43.5	43.9	44.3	45.1	45.3	45.3
170°	44.5	44.5	*44.5*	44.7	44.9	45.1	45.3	45.6	45.8	46.2	46.0
172.5°	46.6	46.4	*46.6*	46.6	46.6	46.6	46.6	46.8	47.0	47.0	47.0
175°	48.9	48.9	*49.1*	48.9	48.6	48.6	48.6	48.8	48.8	48.8	48.6
177.5°	51.3	51.3	*51.1*	51.3	51.1	50.9	50.7	50.5	50.1	50.1	49.7
180°	49.9	49.9	*49.9*	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	18.5	17.7	16.7	15.5	14.4	13.6	12.8	11.8	11.3	11.1	11.1
5°	23.3	22.7	21.8	20.2	19.2	17.5	15.9	15.0	14.0	13.0	12.2
7.5°	32.6	32.4	33.0	34.2	32.6	28.6	24.3	21.9	22.1	23.3	23.9
10°	41.0	39.8	40.0	42.7	40.2	32.4	26.6	24.5	25.6	28.0	28.4
12.5°	49.7	48.0	46.6	46.0	40.4	31.7	26.4	23.9	24.5	26.4	26.4
15°	57.7	55.5	52.4	48.4	41.8	34.0	27.6	23.9	23.9	23.7	23.3
17.5°	62.2	59.8	54.2	47.8	40.6	33.6	27.0	23.3	21.4	19.8	19.6
20°	69.1	68.0	60.8	51.7	41.8	32.8	26.0	22.3	20.2	19.0	18.6
22.5°	75.9	72.6	63.3	54.0	42.7	32.6	25.6	22.1	20.2	19.2	18.8
25°	79.6	75.6	66.2	56.7	44.1	32.8	26.0	22.5	20.4	19.4	19.2
27.5°	82.5	78.3	69.5	59.2	45.8	33.6	27.2	23.1	20.8	19.6	19.4
30°	86.4	82.4	73.4	62.3	47.4	35.3	28.6	24.1	21.4	20.2	20.0
32.5°	93.8	88.8	78.3	65.1	49.3	37.1	30.3	25.6	22.3	20.6	20.6
35°	109.2	103.7	89.7	72.4	51.5	38.5	31.5	26.6	23.1	21.2	21.0
37.5°	141.4	134.6	117.5	90.7	56.7	40.4	32.8	27.2	23.5	21.8	21.4
40°	156.9	144.3	125.1	101.4	65.5	43.5	35.0	28.6	24.1	21.9	21.8
42.5°	175.8	165.3	138.9	104.1	72.6	50.7	38.7	30.5	25.2	22.3	22.1
45°	194.2	183.9	160.4	126.6	87.4	62.0	44.7	33.8	27.0	23.3	22.7
47.5°	226.5	209.6	181.4	148.2	107.6	78.5	55.0	38.5	29.9	24.5	23.7
50°	306.3	295.2	252.1	201.2	140.0	102.2	74.8	49.3	33.2	25.2	24.1
52.5°	413.1	392.1	343.2	280.9	203.2	151.7	109.3	73.2	40.8	26.0	24.5
55°	582.3	549.7	493.3	385.3	291.5	230.0	171.1	120.2	62.2	27.8	24.7
57.5°	763.1	733.6	666.4	532.6	395.1	292.9	225.3	169.8	87.2	31.7	26.8
60°	884.1	832.6	755.9	626.6	477.6	344.4	252.1	178.1	90.5	32.4	28.0
62.5°	953.5	900.2	786.8	638.2	492.4	355.8	263.8	163.1	72.3	31.5	29.1
64°	*961.6*	*910.3*	*787.2*	*627.2*	*476.6*	*344.0*	*255.6*	*153.1*	*62.7*	*31.1*	*29.7*
65°	955.2	907.8	777.7	613.9	455.5	328.6	245.9	143.0	55.7	30.7	29.9
67.5°	892.9	851.3	714.9	556.8	405.0	283.8	201.8	109.9	43.7	29.9	29.5
70°	723.1	704.1	587.7	449.2	320.1	226.3	159.1	84.1	37.1	29.1	28.7
72.5°	542.5	518.4	438.6	342.8	249.4	176.0	120.8	64.7	32.8	28.4	28.0
75°	434.9	411.4	347.7	270.0	185.5	131.5	89.3	48.4	30.9	28.2	27.8
77.5°	359.5	340.7	285.9	205.5	131.9	94.2	65.6	39.4	30.3	28.4	28.0
80°	276.6	273.5	223.4	149.6	93.4	70.3	53.0	36.9	30.5	29.1	28.7
82.5°	194.0	186.3	157.7	111.3	80.8	64.3	50.9	37.5	32.0	30.9	30.7
85°	159.8	153.8	135.0	107.0	76.9	62.2	50.3	38.5	33.6	32.6	32.2
87.5°	158.1	151.5	133.6	102.4	73.0	59.2	48.0	37.5	33.4	32.8	33.2
90°	143.5	138.7	122.2	94.4	72.4	60.2	50.1	41.4	37.1	35.2	34.8
92.5°	125.7	122.8	111.1	91.7	75.2	63.7	54.6	45.8	42.0	40.8	40.2
95°	109.7	108.6	99.1	83.3	69.3	60.0	51.7	44.1	40.8	39.2	39.0
97.5°	89.9	88.6	81.2	70.9	60.6	52.8	46.6	40.8	38.5	38.3	38.1
100°	82.2	81.2	75.9	69.3	61.2	55.4	49.9	45.1	43.1	43.1	43.3
102.5°	75.9	75.4	70.7	63.9	57.5	52.1	47.6	43.1	40.8	40.8	39.4
105°	70.9	69.9	65.6	60.2	53.6	48.6	44.3	41.0	38.5	37.7	37.7
107.5°	66.4	65.3	61.8	56.5	51.7	46.8	42.9	39.8	38.1	37.5	37.5

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

Scaled Data Report

REPORT NUMBER: P1046199
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	66.6	65.6	61.6	55.9	51.5	47.8	44.7	41.8	40.2	39.0	39.0
112.5°	82.0	77.9	70.7	62.3	57.3	52.4	47.6	43.5	41.6	41.2	40.8
115°	92.8	88.8	79.8	69.0	59.8	53.0	48.2	45.1	43.3	44.5	45.1
117.5°	93.2	85.8	68.8	63.5	56.9	51.3	48.0	46.0	44.9	46.0	46.0
120°	95.0	80.0	70.9	68.8	61.0	53.0	49.3	48.9	47.8	45.4	45.4
122.5°	141.2	127.6	113.0	94.6	78.5	70.9	64.3	52.8	47.4	44.9	44.7
125°	194.6	180.4	157.7	133.0	109.7	85.5	63.5	54.2	48.6	45.4	44.9
127.5°	206.9	195.8	165.9	136.3	103.3	79.6	63.7	55.7	50.1	46.8	46.2
130°	166.8	158.1	137.9	113.8	90.9	73.6	62.2	54.2	48.8	45.4	44.7
132.5°	148.4	140.2	120.4	98.5	80.6	67.2	56.9	49.1	43.7	41.4	41.4
135°	124.1	118.5	100.8	87.8	75.0	63.7	53.6	46.4	42.0	40.6	40.6
137.5°	106.4	102.0	89.3	79.0	69.1	59.4	50.7	44.9	41.8	40.4	40.2
140°	91.1	88.2	80.8	70.7	61.2	51.7	44.9	41.6	40.2	39.6	39.4
142.5°	79.2	77.1	70.5	60.0	50.7	44.9	42.3	41.4	40.0	38.7	38.5
145°	69.3	67.6	60.0	54.0	49.5	47.2	45.3	42.3	39.0	37.3	37.1
147.5°	77.9	75.2	68.6	61.6	54.4	48.9	44.7	40.8	37.7	36.5	36.5
150°	67.0	65.1	61.0	55.5	49.5	44.5	40.8	38.3	37.1	36.9	36.9
152.5°	52.1	51.1	49.9	47.2	43.3	40.0	37.7	36.5	36.9	37.7	37.9
155°	48.9	48.6	47.4	44.9	42.3	39.2	37.3	36.7	37.3	38.1	38.3
157.5°	46.6	46.4	45.4	43.1	40.8	38.8	37.5	37.1	37.7	38.3	38.3
160°	44.7	44.5	43.1	41.4	39.6	38.3	37.3	37.3	37.9	38.3	38.3
162.5°	43.5	43.3	42.3	41.0	39.8	39.0	38.8	38.8	39.0	39.2	39.2
165°	43.5	43.3	42.3	41.2	40.4	40.4	40.8	41.0	40.4	40.0	40.2
167.5°	45.3	44.9	43.7	42.7	42.5	42.7	43.3	43.3	42.9	42.3	42.1
170°	45.8	45.6	45.3	44.9	44.9	44.9	45.1	45.3	45.3	45.4	45.4
172.5°	47.0	47.0	46.8	46.8	47.0	46.8	46.8	47.2	47.6	47.8	48.0
175°	48.6	48.4	48.6	48.6	48.8	48.6	48.4	48.8	49.3	49.7	49.7
177.5°	49.7	49.7	49.5	49.3	49.3	49.3	49.3	49.5	49.5	49.5	49.3
180°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9

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: SP1-2501-332-8

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

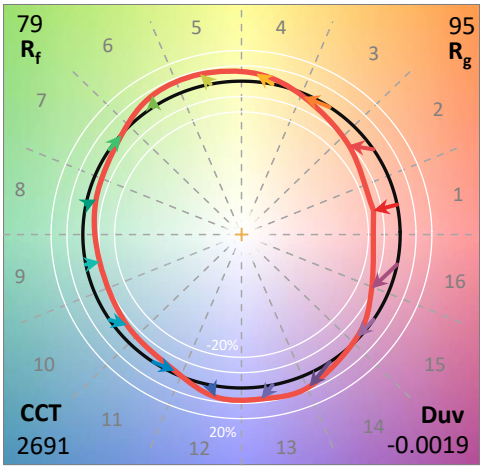
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

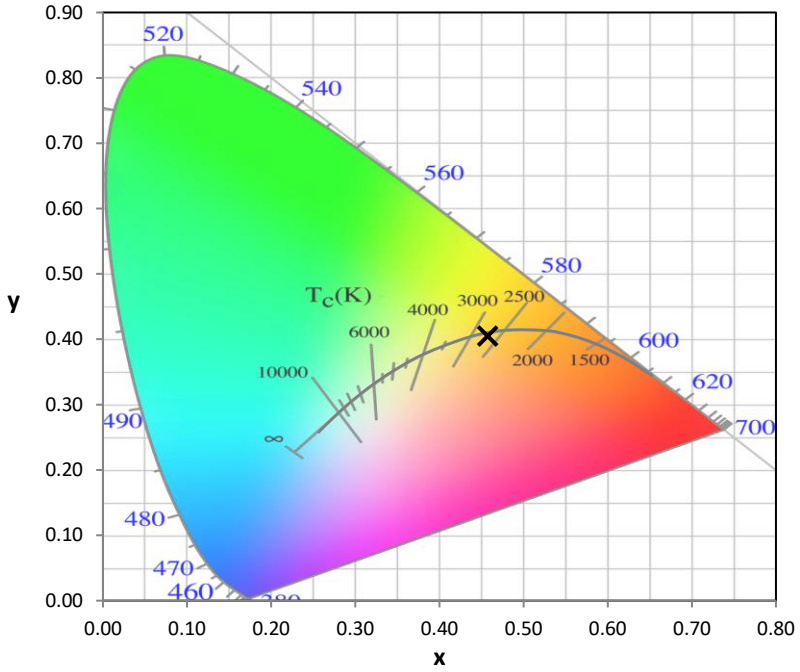
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

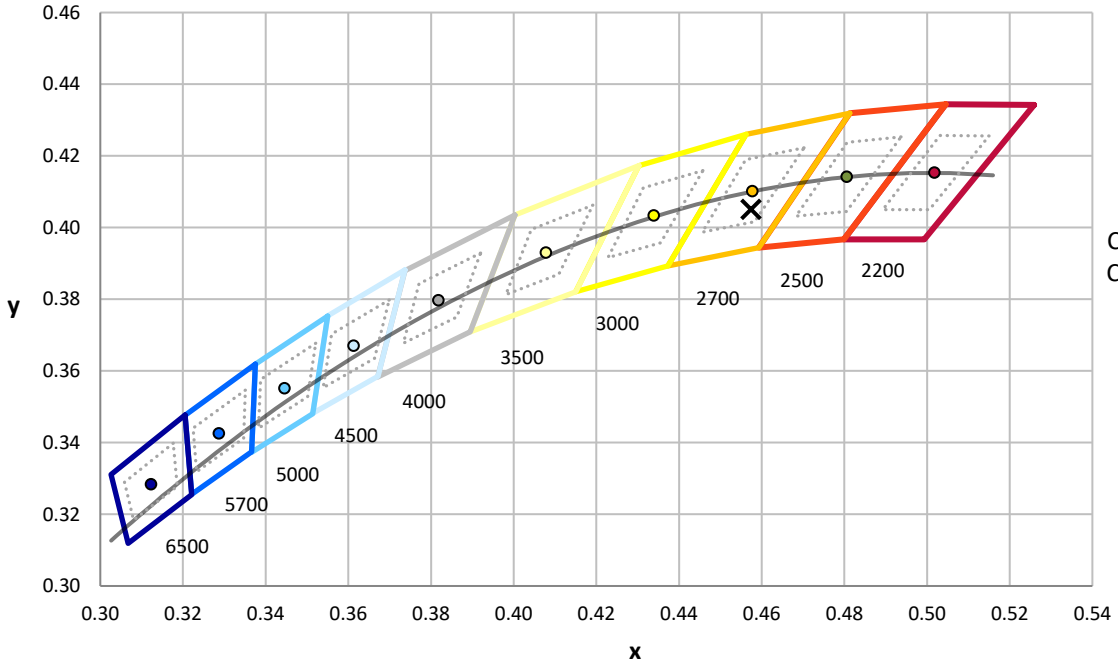
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

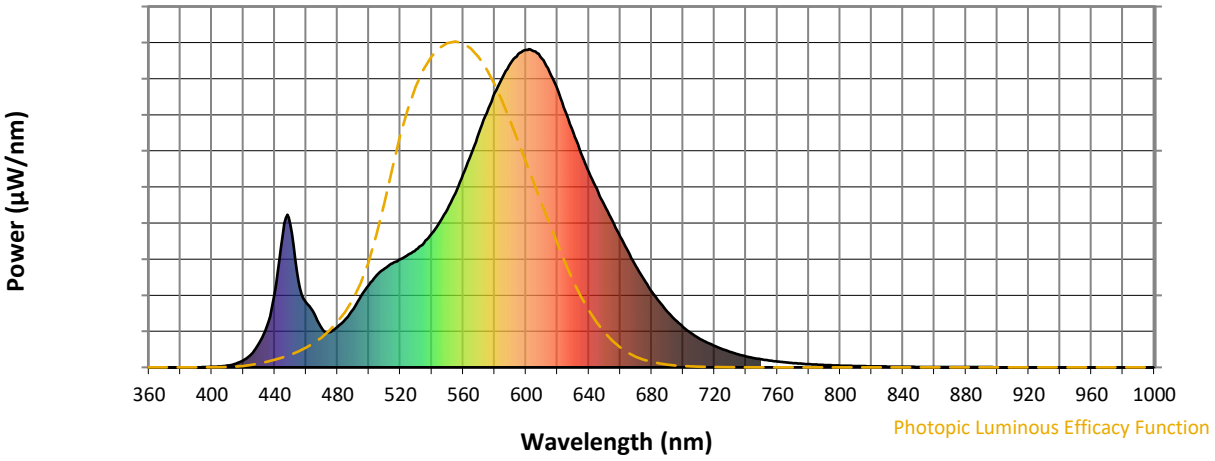


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

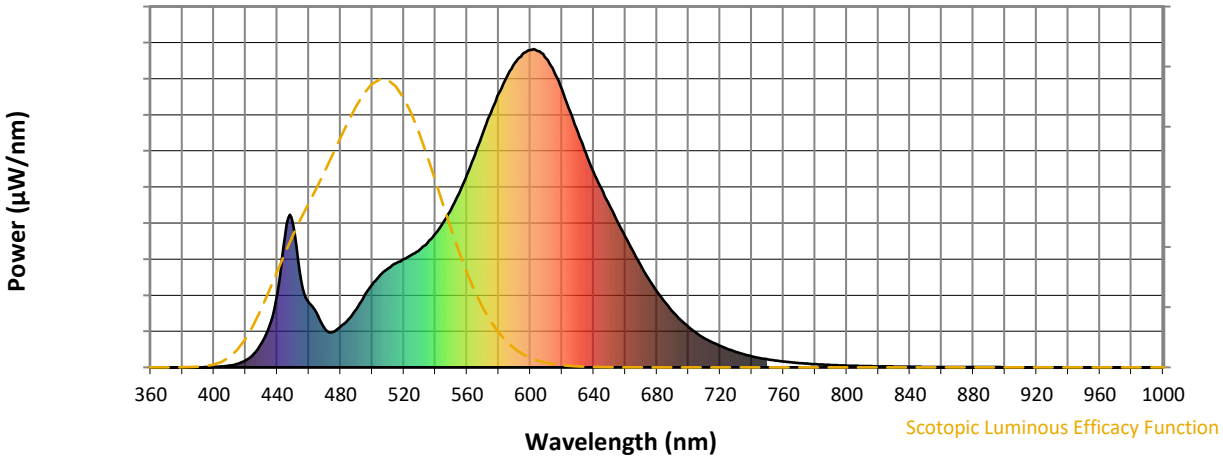


Photopic Lumens: NR

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

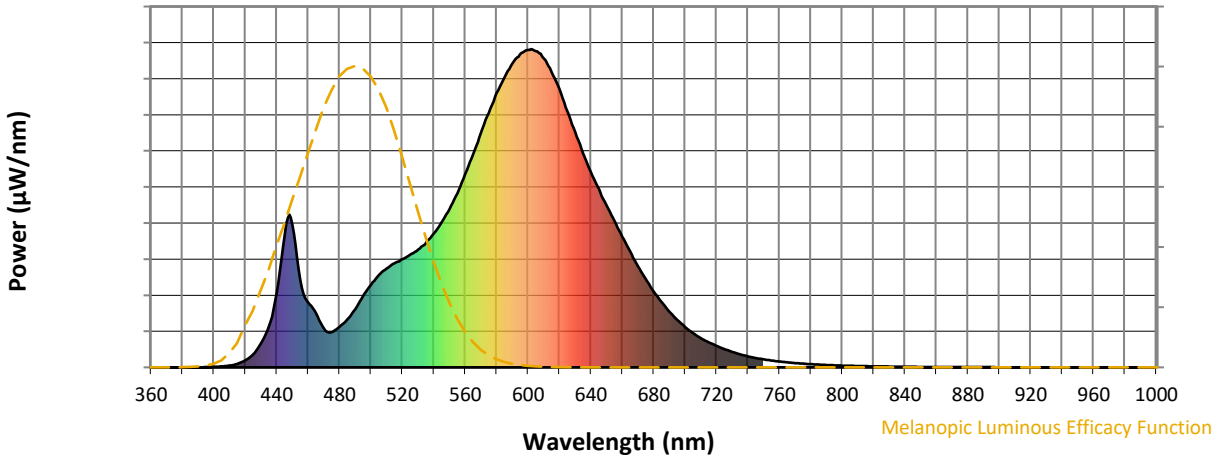


Scotopic Lumens: NR **S/P: 1.18**

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			

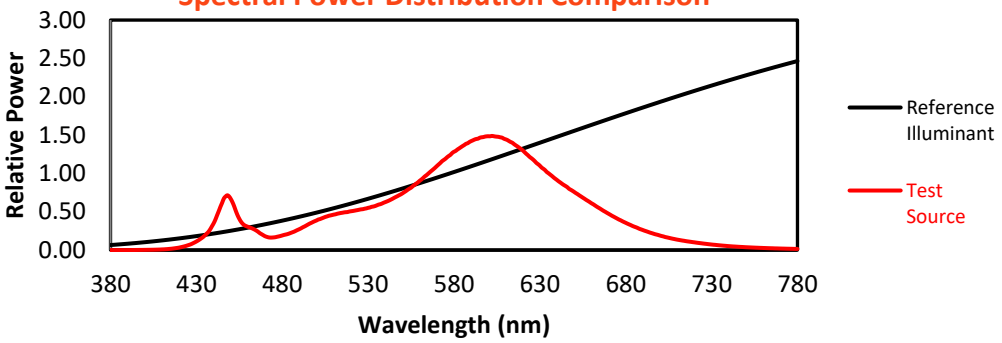
REPORT NUMBER: SP1-2501-332-8

TM-30-18

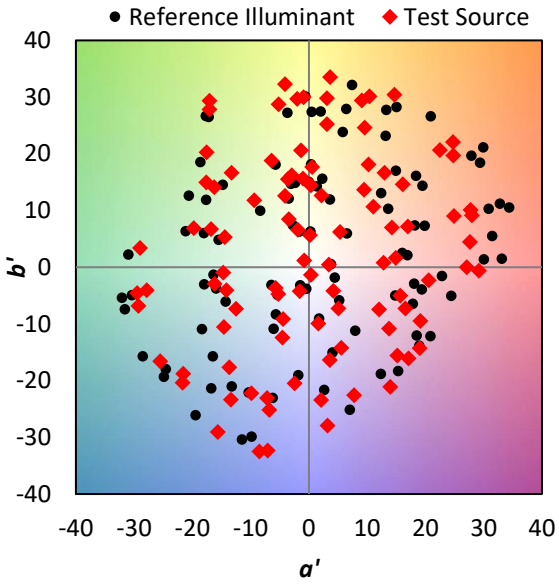
Summary

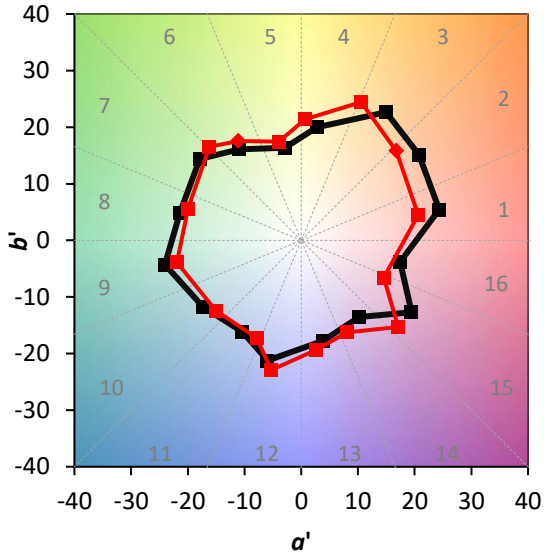
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

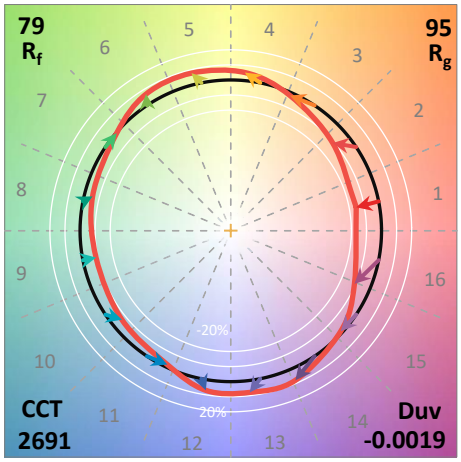
Spectral Power Distribution Comparison

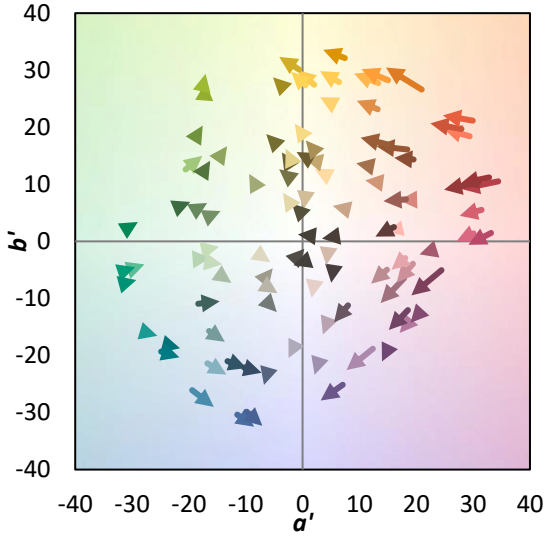


Color Vector Graphics







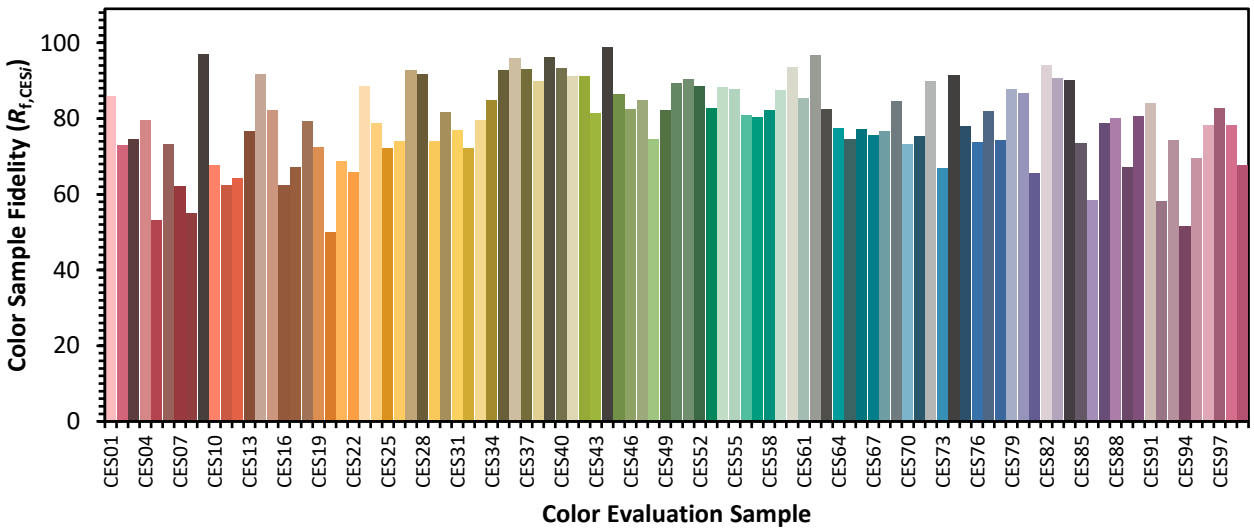


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

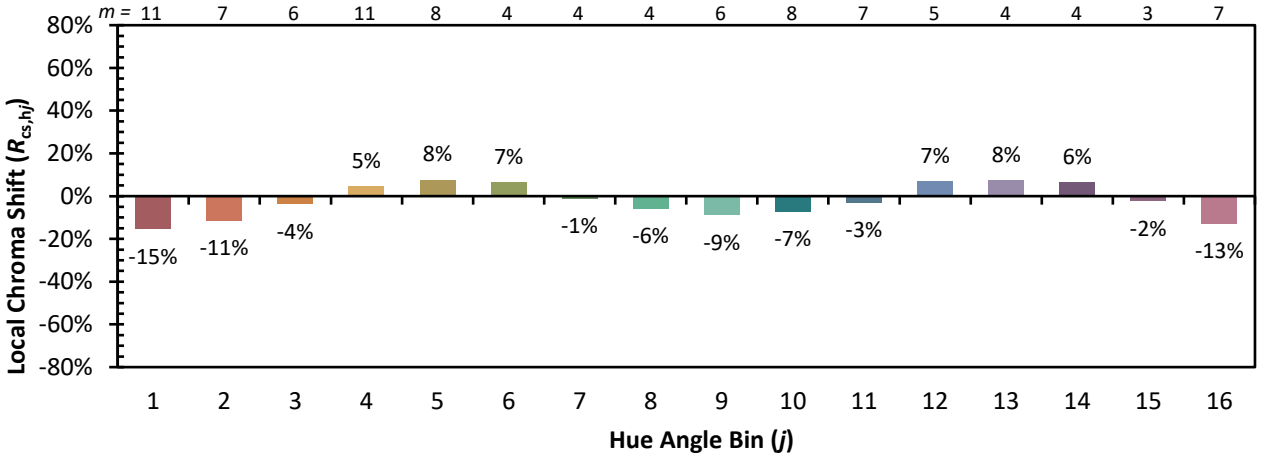
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 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	

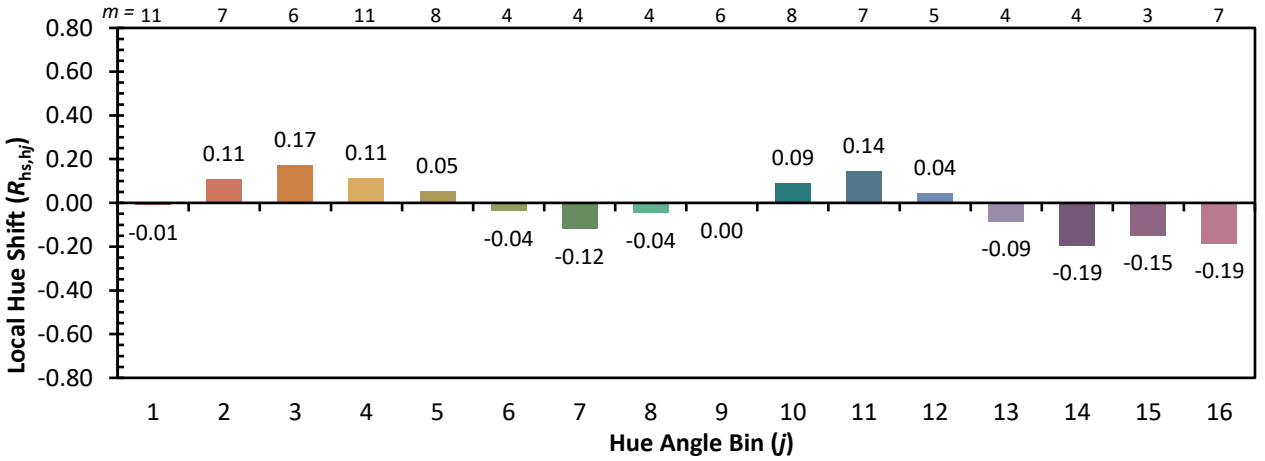


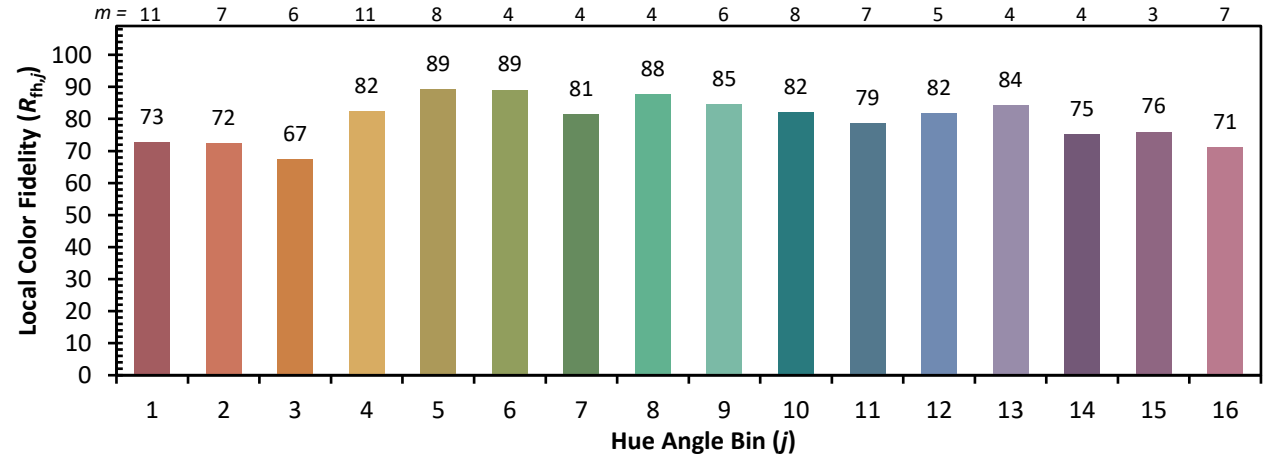
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Color Rendition by Hue-Angle Bin



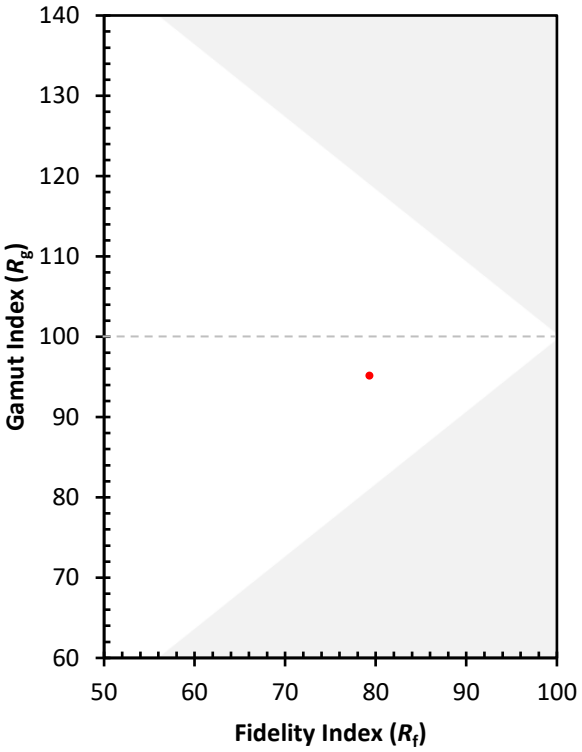


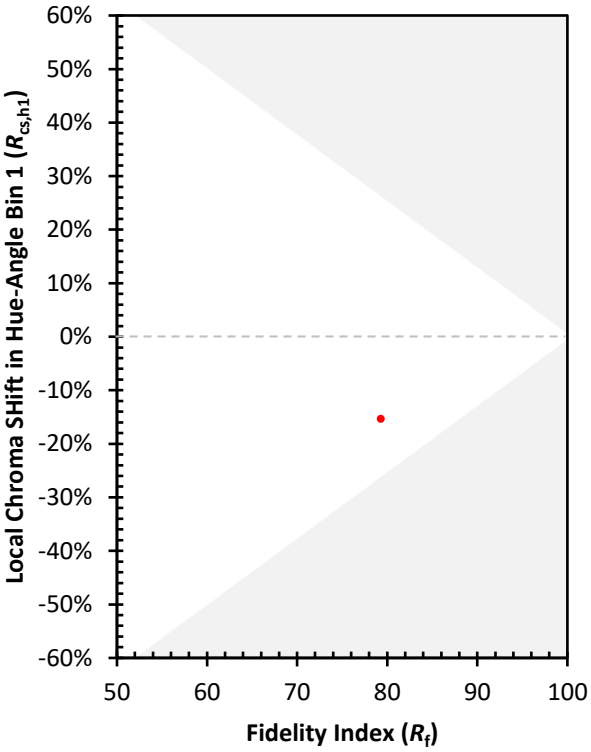


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Measure Comparisons





(END OF REPORT)