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: P1046406

Luminaire Tested: **FFX-CLB-20-750-U-FR-T4**

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:	P1046406
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-750-U-FR-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3393.2 lumens
Efficiency:	N/A
Efficacy:	171.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - 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

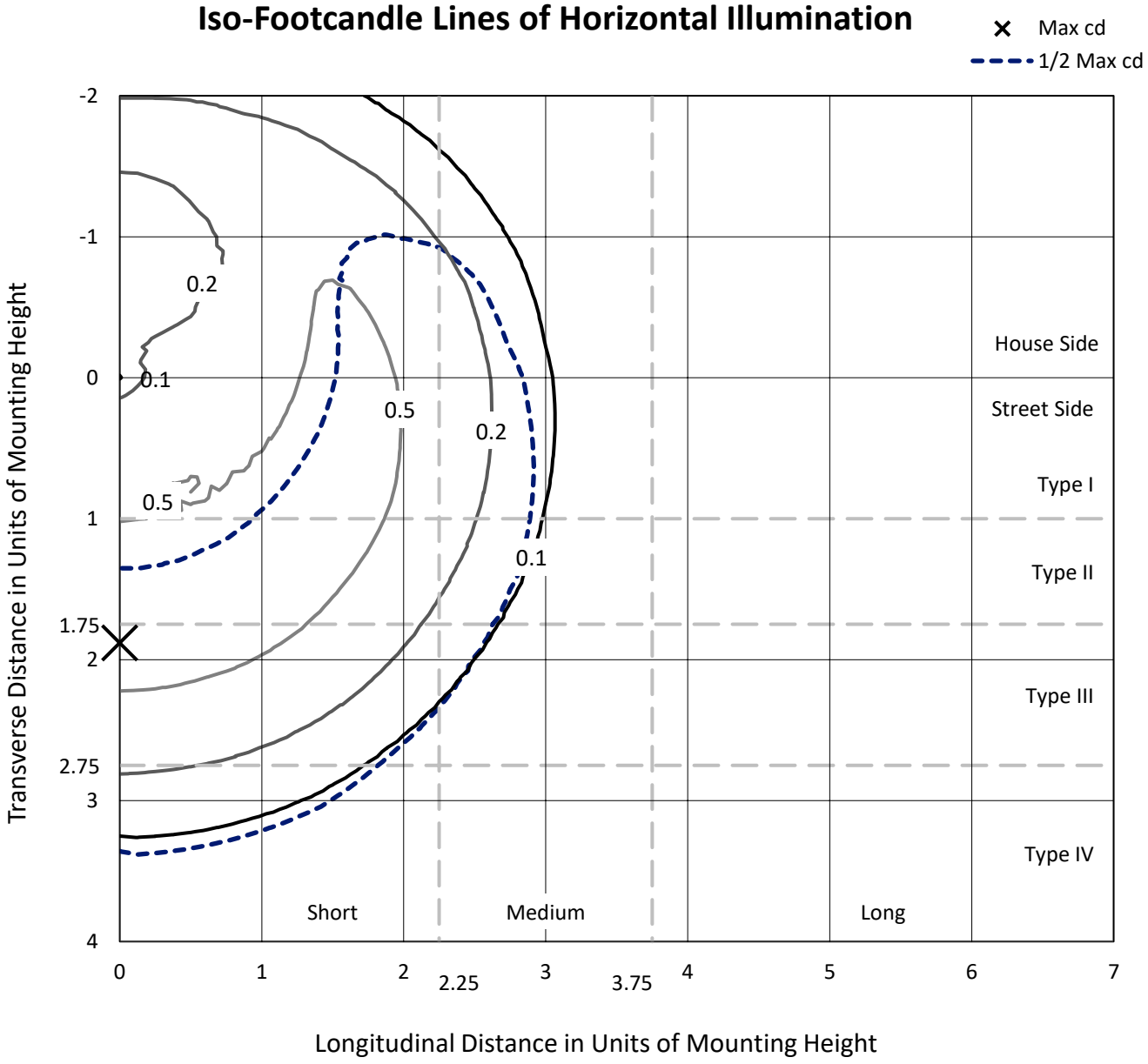


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Iso-Footcandle Lines of Horizontal Illumination



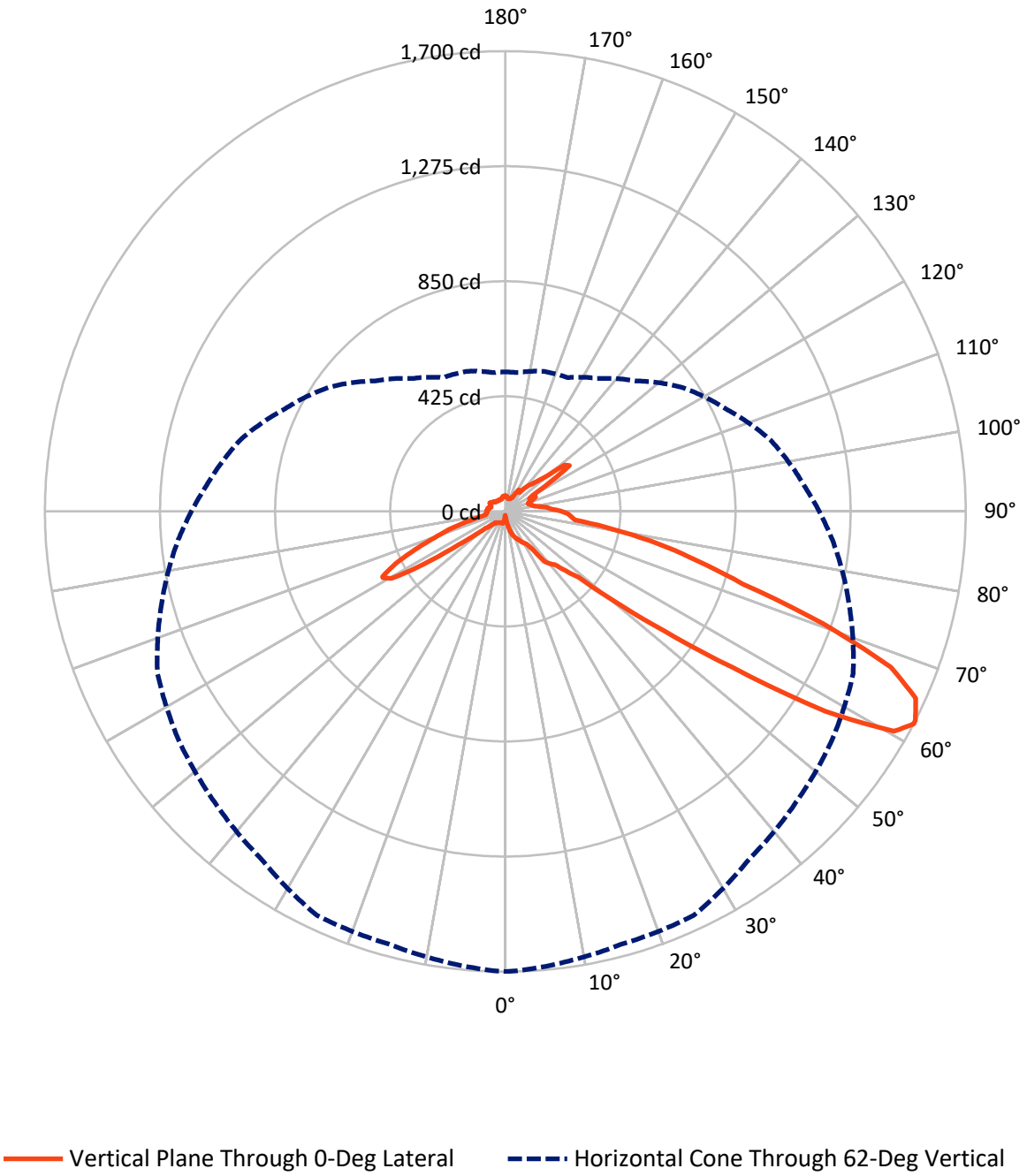
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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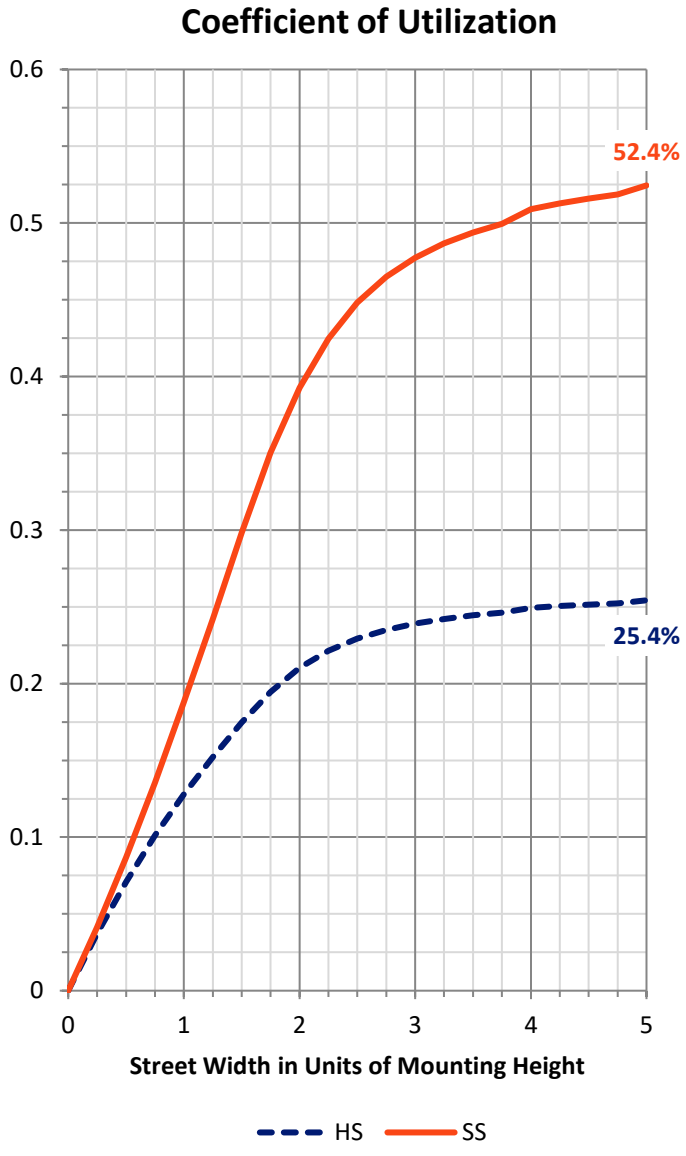
REPORT NUMBER: P1046406
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	892.8	255.1	1147.9
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	1853.5	391.8	2245.3
	% Fixture	54.6	11.5	66.2
Total	Lumens	2746.3	646.9	3393.2
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	18.8	0.6
20°-30°	40.8	1.2
30°-40°	81.6	2.4
40°-50°	178.7	5.3
50°-60°	625.7	18.4
60°-70°	1047.2	30.9
70°-80°	543.6	16.0
80°-90°	206.4	6.1
90°-100°	131.6	3.9
100°-110°	87.2	2.6
110°-120°	91.1	2.7
120°-130°	152.3	4.5
130°-140°	91.7	2.7
140°-150°	48.5	1.4
150°-160°	25.5	0.8
160°-170°	13.8	0.4
170°-180°	5.2	0.2
0°-90°	2746.3	80.9
0°-180°	3393.2	100.0



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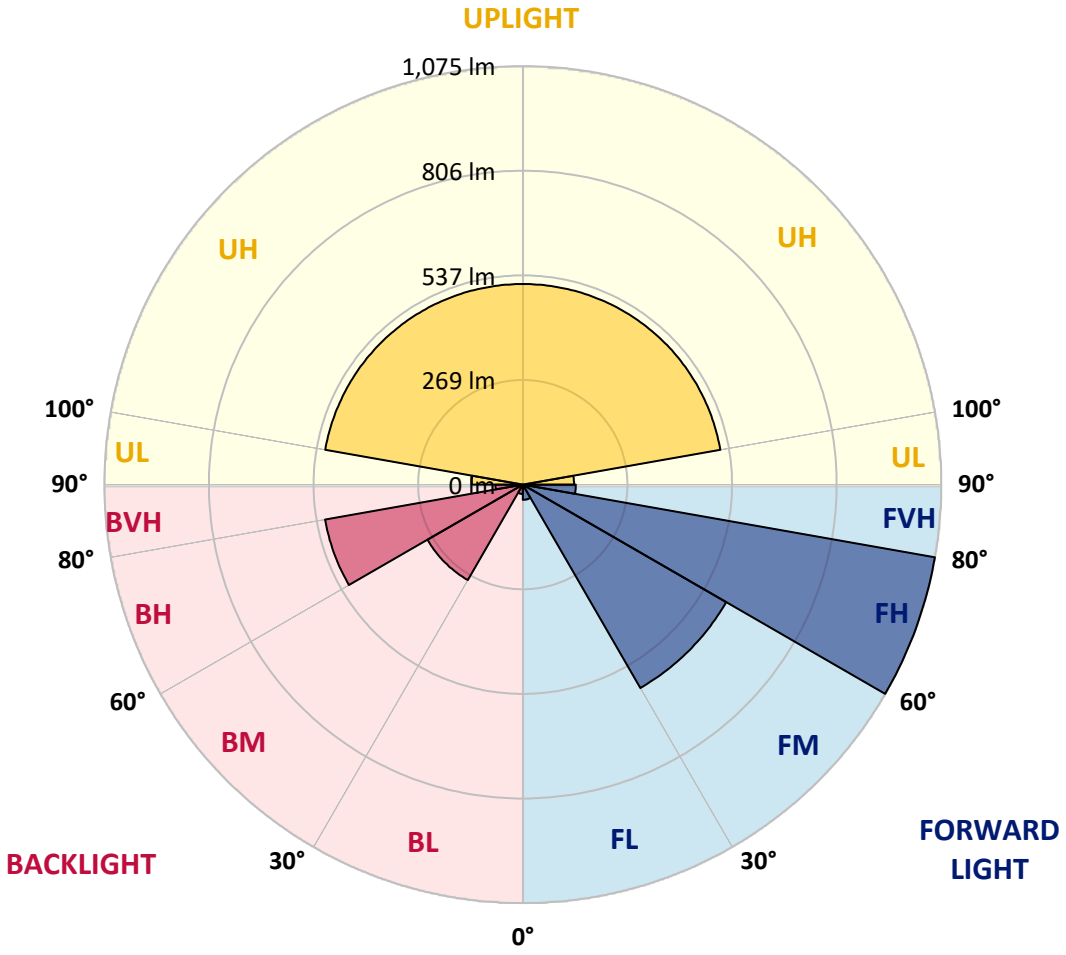
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	39.1	1.2			
FM	(30°-60°)	603.3	17.8			
FH	(60°-80°)	1075.0	31.7			G1/1800
FVH	(80°-90°)	136.2	4.0			G2/225
BL	(0°-30°)	23.9	0.7	B0/110		
BM	(30°-60°)	282.8	8.3	B1/1000		
BH	(60°-80°)	515.8	15.2	B2/1000		G2/1000
BVH	(80°-90°)	70.3	2.1			G1/100
UL	(90°-100°)	131.6	3.9		U3/500	
UH	(100°-180°)	515.3	15.2		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	21.4	20.9	20.9	21.8	22.9	22.9	23.1	22.4	22.4	22.2	22.4
5°	31.1	30.2	30.7	30.9	31.3	31.7	32.2	32.2	31.3	30.7	28.9
7.5°	43.4	43.2	43.6	43.4	43.0	44.0	44.7	46.2	46.6	43.8	40.4
10°	55.9	55.3	55.0	55.3	55.5	54.8	56.1	57.2	55.7	52.5	49.4
12.5°	69.5	69.5	69.5	69.3	69.3	69.1	68.6	68.4	66.9	63.2	58.5
15°	84.6	84.8	85.3	85.0	84.0	82.2	80.9	79.9	79.0	76.4	70.4
17.5°	93.9	93.5	93.9	93.7	93.2	92.2	89.8	87.6	84.8	81.2	76.6
20°	102.5	102.3	102.1	102.1	101.7	100.4	98.9	95.4	91.7	87.9	82.7
22.5°	109.2	108.8	109.2	109.0	108.8	108.4	105.8	102.7	98.6	94.3	88.9
25°	117.9	117.6	117.9	117.2	117.2	116.6	115.1	111.2	106.6	101.9	95.2
27.5°	127.4	126.7	127.4	127.1	126.3	124.5	123.3	118.9	113.3	108.8	102.7
30°	135.3	135.3	135.8	134.5	135.3	133.8	130.8	126.1	121.3	115.5	109.2
32.5°	143.8	143.8	143.3	143.1	144.2	142.2	138.8	133.2	129.3	123.3	117.9
35°	167.3	165.6	168.4	168.2	173.5	169.7	163.2	155.6	149.6	141.8	134.7
37.5°	234.8	234.0	232.7	224.5	215.0	216.5	217.6	209.2	201.6	187.6	171.0
40°	254.1	253.8	253.6	248.9	251.5	244.6	241.1	236.8	235.5	217.1	194.9
42.5°	269.8	267.2	269.8	278.5	292.1	287.3	269.8	247.4	243.3	225.8	216.7
45°	312.6	310.8	315.1	317.7	313.4	305.7	310.6	294.2	283.0	258.2	241.5
47.5°	363.7	362.0	366.1	368.2	377.1	368.9	365.0	351.0	332.2	308.7	287.1
50°	516.3	496.9	512.7	507.3	509.4	491.1	498.4	478.3	461.5	422.9	383.8
52.5°	728.9	722.5	711.7	699.6	708.9	689.2	695.3	673.5	643.0	598.1	540.5
55°	1016.7	994.9	1001.8	1026.6	1021.4	986.2	980.2	927.1	872.5	805.4	744.7
57.5°	1393.1	1382.3	1369.8	1353.2	1337.0	1300.5	1282.6	1223.2	1138.4	1044.7	960.3
60°	1649.3	1640.7	1635.1	1584.4	1554.6	1481.2	1464.6	1423.3	1347.8	1245.9	1129.6
62°	1700.3	1699.0	1687.6	1656.0	1647.2	1569.5	1519.0	1473.0	1417.5	1314.1	1212.9
62.5°	1699.9	1697.3	1690.6	1664.2	1655.2	1582.4	1527.6	1478.8	1423.6	1322.1	1222.6
65°	1665.3	1659.5	1656.5	1640.7	1636.6	1593.9	1521.1	1470.8	1424.4	1312.6	1229.7
67.5°	1535.4	1542.3	1542.7	1527.0	1513.4	1487.9	1418.4	1374.8	1342.8	1226.3	1148.1
70°	1246.3	1237.1	1227.6	1234.9	1228.9	1215.0	1159.8	1105.0	1065.0	1003.9	929.9
72.5°	916.1	930.8	930.5	932.7	933.8	899.0	874.4	842.9	821.3	768.4	715.6
75°	734.3	735.6	731.5	716.4	700.2	680.2	684.5	681.7	671.3	615.4	562.9
77.5°	579.8	565.5	571.4	547.6	526.7	526.5	534.9	543.1	547.6	502.7	462.1
80°	408.2	404.9	399.8	401.9	384.7	389.2	393.3	398.9	390.0	363.5	344.7
82.5°	257.7	254.9	250.8	270.7	287.3	283.6	270.5	249.3	244.3	246.3	242.0
85°	243.7	243.5	239.8	237.9	235.3	229.5	232.7	237.2	234.6	220.0	201.0
87.5°	230.1	229.5	226.6	225.6	220.6	220.0	223.0	224.7	225.8	212.6	196.6
90°	201.6	199.0	196.4	198.6	197.9	198.4	199.2	198.8	199.2	183.7	177.0
92.5°	168.2	167.5	165.6	166.6	168.2	174.2	171.6	167.5	166.9	160.6	154.1
95°	153.5	153.9	151.5	153.0	153.5	153.5	151.7	149.8	148.3	143.3	137.5
97.5°	127.1	125.2	124.3	125.4	125.8	124.3	123.3	120.0	119.8	114.8	112.0
100°	108.1	107.7	107.3	108.6	109.0	108.4	108.6	106.6	106.4	103.6	100.6
102.5°	101.0	100.8	100.6	101.7	102.1	101.7	101.0	99.1	99.5	96.5	94.3
105°	95.4	95.4	95.2	95.8	94.5	93.9	93.0	93.0	93.5	91.1	87.9
107.5°	89.1	88.9	89.1	88.9	87.4	86.8	86.6	85.9	87.4	86.1	82.7

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*90.2*	90.2	90.0	87.6	86.8	85.7	85.3	86.3	85.9	83.8	81.6
112.5°	*110.5*	109.2	110.1	106.8	105.3	106.2	106.6	107.5	109.2	105.8	102.5
115°	*123.5*	123.7	125.8	125.8	122.6	124.1	124.1	123.9	125.6	123.0	119.8
117.5°	*100.8*	102.1	109.0	104.7	105.8	106.6	101.2	99.3	98.9	99.5	106.4
120°	*116.1*	114.4	120.9	107.3	103.2	103.2	107.1	112.0	106.6	98.4	100.6
122.5°	*190.0*	190.2	190.4	196.2	195.6	197.3	194.3	190.4	179.2	179.4	169.2
125°	*290.8*	288.0	288.0	285.4	284.9	280.8	286.0	289.2	280.6	265.9	250.0
127.5°	*278.2*	284.3	282.1	275.6	269.4	267.2	273.3	283.4	278.5	265.5	250.8
130°	*197.5*	199.0	198.6	205.5	207.2	205.1	207.2	199.9	201.0	204.0	196.2
132.5°	*165.6*	164.7	167.7	177.2	180.9	176.6	170.5	165.1	165.3	171.8	171.4
135°	*142.7*	142.0	144.2	144.6	148.7	145.3	139.9	139.9	141.2	142.7	142.0
137.5°	*128.9*	128.0	128.6	123.7	118.7	118.5	122.8	125.2	123.9	122.4	120.7
140°	*110.9*	111.4	110.3	106.2	104.0	104.5	107.3	110.9	109.9	106.6	104.0
142.5°	*88.3*	87.4	88.7	91.7	96.1	96.1	91.7	87.2	87.0	88.5	90.7
145°	*87.0*	86.6	86.8	86.1	87.0	86.1	84.8	83.5	82.0	80.9	80.1
147.5°	*94.3*	94.3	94.1	93.0	92.2	90.7	91.1	92.6	93.5	92.6	91.3
150°	*76.6*	77.3	77.3	77.1	76.2	76.8	77.7	78.1	79.0	79.0	77.7
152.5°	*58.9*	58.7	59.4	58.5	58.3	58.7	59.8	60.7	60.9	60.9	59.1
155°	*56.1*	55.7	56.1	55.7	55.3	55.7	56.6	57.0	57.4	56.8	55.0
157.5°	*52.5*	52.5	52.5	52.0	52.2	52.2	52.7	52.9	53.1	52.9	52.5
160°	*49.6*	49.6	49.9	49.6	49.6	50.1	49.9	49.6	49.6	49.4	49.2
162.5°	*47.9*	47.9	47.9	47.9	47.7	47.7	47.9	47.7	47.5	47.3	47.7
165°	*47.1*	46.8	46.8	46.8	47.1	46.8	46.8	46.8	46.6	47.3	48.1
167.5°	*48.8*	48.4	48.6	48.8	48.8	48.6	48.6	48.6	49.0	49.6	50.3
170°	*51.2*	50.9	50.9	51.2	51.2	50.9	50.9	50.9	51.2	51.4	51.6
172.5°	*53.1*	52.9	52.9	52.9	52.7	52.5	52.5	52.5	52.5	52.5	52.7
175°	*55.0*	55.0	55.0	55.0	54.8	54.6	54.6	54.6	54.6	54.6	54.6
177.5°	*57.2*	57.0	57.2	57.0	57.0	57.0	56.8	56.6	56.3	56.3	56.3
180°	*56.8*	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	22.0	21.8	20.5	19.4	18.6	17.7	16.4	15.3	14.5	14.2	14.2
5°	28.5	28.1	26.8	25.0	24.2	22.9	21.6	20.7	19.6	19.2	19.4
7.5°	39.3	39.5	39.9	40.8	40.4	36.7	32.6	31.7	32.6	33.9	34.5
10°	48.8	48.1	47.9	50.7	50.1	44.7	39.3	37.6	39.1	41.9	43.2
12.5°	56.6	55.3	55.0	55.5	52.9	47.1	42.5	40.6	41.4	43.6	43.4
15°	68.0	66.1	63.2	61.5	58.3	54.2	48.6	45.3	45.3	45.3	45.1
17.5°	74.7	72.5	67.1	62.2	58.1	55.0	51.4	48.4	45.1	44.7	44.5
20°	80.5	77.3	71.4	66.1	60.9	56.6	51.4	47.7	44.9	44.5	44.3
22.5°	85.5	82.5	76.2	69.7	63.2	58.3	52.7	48.8	46.0	45.1	44.9
25°	92.2	88.9	81.8	74.3	66.7	60.4	55.3	50.7	47.3	45.5	45.5
27.5°	98.9	95.2	87.2	79.4	71.2	63.5	57.6	53.1	48.8	46.4	46.2
30°	105.3	101.2	92.6	83.8	75.5	67.3	60.7	55.5	50.7	48.1	47.9
32.5°	114.4	109.7	99.5	88.5	80.3	71.4	63.9	57.8	52.9	50.3	49.9
35°	132.1	126.7	115.3	101.0	88.1	76.2	67.1	59.1	54.4	51.6	51.4
37.5°	164.9	158.7	142.7	125.2	107.5	89.6	73.0	60.9	55.5	52.9	52.5
40°	184.6	172.3	155.4	141.6	128.2	110.9	89.6	70.6	57.6	54.6	54.2
42.5°	210.0	197.3	172.9	146.6	129.5	115.9	100.8	88.5	69.9	59.1	57.2
45°	234.2	224.5	203.6	175.5	149.6	126.1	107.3	95.4	83.5	71.2	69.3
47.5°	274.8	260.5	232.9	204.2	177.9	151.5	129.3	106.2	90.9	83.5	83.1
50°	378.8	352.9	313.0	278.7	229.0	188.7	162.3	131.5	111.8	100.4	96.7
52.5°	513.3	486.3	440.8	391.1	336.1	284.1	232.5	188.2	156.3	136.2	136.9
55°	713.6	686.6	619.7	534.7	459.1	404.9	349.7	295.9	244.6	215.0	211.3
57.5°	924.9	900.8	843.6	739.7	619.5	519.3	453.7	415.7	389.4	357.2	357.2
60°	1079.9	1039.8	975.0	870.3	763.7	632.0	547.8	493.4	488.7	483.1	487.4
62°	*1159.1*	*1107.3*	*1014.9*	*897.3*	*798.2*	*681.0*	*599.2*	*545.2*	*535.8*	*514.6*	*515.0*
62.5°	1172.5	1115.3	1021.6	897.3	801.3	685.3	604.8	552.2	539.0	513.1	513.5
65°	1185.9	1117.0	1026.6	882.8	784.2	670.4	608.5	539.9	505.3	461.9	449.2
67.5°	1109.1	1038.5	961.0	820.9	718.4	608.5	539.9	471.0	414.7	370.6	363.7
70°	900.8	845.3	785.5	678.4	588.9	499.9	441.6	379.5	323.4	274.8	277.8
72.5°	683.6	631.8	577.0	509.0	453.3	393.5	341.9	291.8	245.2	215.0	220.6
75°	529.5	495.0	456.1	406.7	364.4	309.1	250.4	205.9	174.4	156.1	157.1
77.5°	435.4	399.5	367.8	322.5	282.3	225.8	169.2	131.2	112.9	104.7	102.5
80°	334.8	308.7	280.6	240.0	195.8	152.2	113.8	96.1	84.0	77.9	75.5
82.5°	233.8	217.6	194.1	164.7	139.2	123.3	106.6	91.7	79.2	73.6	71.0
85°	192.5	183.9	171.0	154.3	139.2	121.5	103.0	87.9	77.1	72.7	70.4
87.5°	187.6	181.7	167.1	149.4	131.2	113.1	94.3	80.3	73.4	70.6	68.4
90°	172.0	165.3	155.0	137.5	121.3	101.9	86.6	78.1	73.0	69.7	67.3
92.5°	150.0	146.3	136.9	124.3	113.1	100.6	89.6	82.0	76.6	72.7	70.4
95°	133.4	129.1	123.7	113.5	104.3	94.1	84.0	76.8	71.2	67.1	65.2
97.5°	109.7	106.6	101.5	94.8	87.9	79.7	72.5	67.8	64.1	62.2	60.9
100°	99.5	97.6	94.5	89.8	84.2	78.4	73.2	70.6	69.1	67.8	67.1
102.5°	92.2	90.0	87.6	82.7	78.4	73.2	69.7	67.6	65.6	63.5	63.0
105°	85.7	84.0	80.7	76.6	72.3	67.3	63.2	62.0	60.2	58.3	58.1
107.5°	80.7	79.0	76.2	71.9	68.0	63.7	60.0	58.1	56.1	55.0	54.8

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

Scaled Data Report

REPORT NUMBER: P1046406
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	80.3	79.0	76.0	72.3	69.3	65.0	60.9	60.2	58.1	55.5	55.3
112.5°	100.2	96.1	90.2	84.2	79.0	74.7	69.5	64.3	60.0	57.4	57.0
115°	116.1	112.0	104.9	96.1	87.9	78.6	69.7	63.2	60.9	60.2	61.1
117.5°	109.2	100.6	88.5	83.1	76.0	71.0	67.6	66.1	62.2	63.2	64.3
120°	104.9	99.1	88.5	87.6	84.4	78.8	70.8	69.1	66.9	65.2	65.0
122.5°	168.6	163.0	150.9	132.5	112.7	99.3	94.3	84.0	71.4	62.0	60.4
125°	239.0	229.9	206.1	185.9	159.5	131.2	105.8	84.0	66.9	57.8	56.8
127.5°	243.7	233.6	212.8	185.4	152.0	117.4	91.1	75.3	63.9	57.8	56.8
130°	190.0	183.5	168.2	142.5	119.4	98.9	84.0	71.2	60.9	56.3	55.7
132.5°	167.9	162.1	140.3	118.9	103.6	87.9	75.3	63.2	54.4	51.4	50.9
135°	138.8	132.3	117.9	104.7	93.5	80.7	68.2	57.8	51.6	50.1	49.9
137.5°	118.5	115.5	104.7	95.4	85.3	74.3	63.9	55.9	52.0	50.7	50.5
140°	102.3	101.7	95.0	86.8	76.6	65.0	57.0	52.2	50.7	50.1	49.9
142.5°	90.4	89.6	82.2	72.7	63.7	57.6	54.6	53.1	51.8	50.1	49.6
145°	78.4	76.8	72.3	68.2	65.4	63.5	60.7	55.9	50.9	48.4	48.1
147.5°	89.1	86.6	81.6	75.8	69.7	63.5	57.6	52.7	48.6	47.1	46.8
150°	74.9	74.7	71.4	66.9	62.4	56.8	52.5	49.2	47.5	47.3	47.3
152.5°	58.1	58.1	58.1	57.0	54.8	51.8	48.6	46.6	46.6	47.5	47.7
155°	54.6	54.8	55.0	54.6	52.9	50.1	47.3	46.4	46.6	47.5	47.7
157.5°	52.0	52.0	52.2	51.8	50.9	49.0	47.1	46.2	46.4	46.8	47.1
160°	49.0	49.0	49.2	49.2	48.4	47.7	46.8	46.2	46.2	46.4	46.6
162.5°	47.9	47.9	47.9	47.9	47.7	47.7	47.7	47.7	47.5	47.5	47.5
165°	48.4	48.4	47.7	47.5	47.9	48.6	49.6	49.9	48.8	48.6	48.6
167.5°	50.5	50.5	49.9	49.4	50.1	50.7	52.2	52.7	51.8	50.9	50.9
170°	51.8	51.8	51.8	52.0	52.2	52.9	53.7	54.2	54.0	53.7	53.7
172.5°	52.7	52.7	53.1	53.5	54.2	54.6	55.0	55.5	55.9	55.9	56.1
175°	54.4	54.6	55.0	55.3	55.7	56.1	56.6	57.0	57.2	57.2	57.2
177.5°	56.1	56.1	56.1	56.3	56.6	56.8	57.0	57.2	57.2	57.4	57.6
180°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

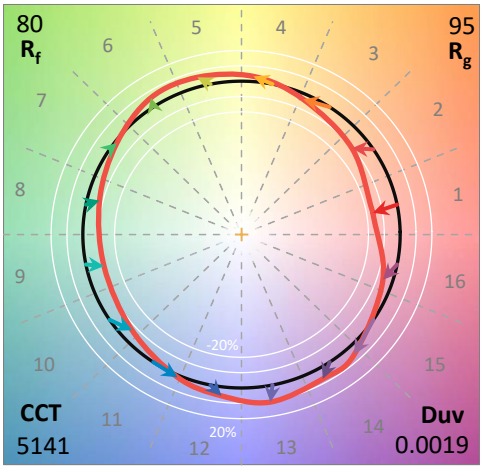
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-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):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

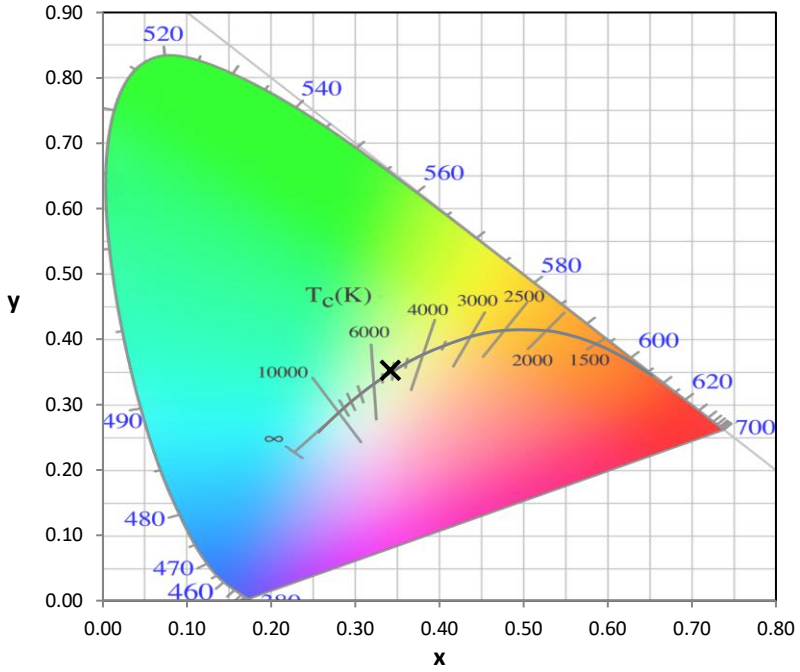
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

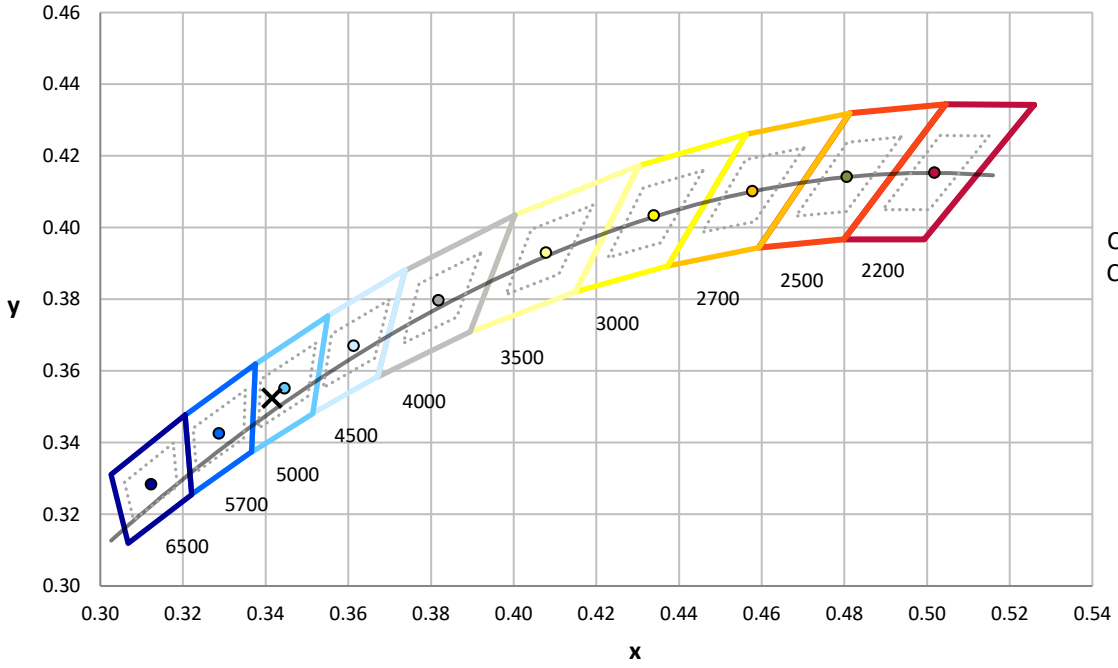
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

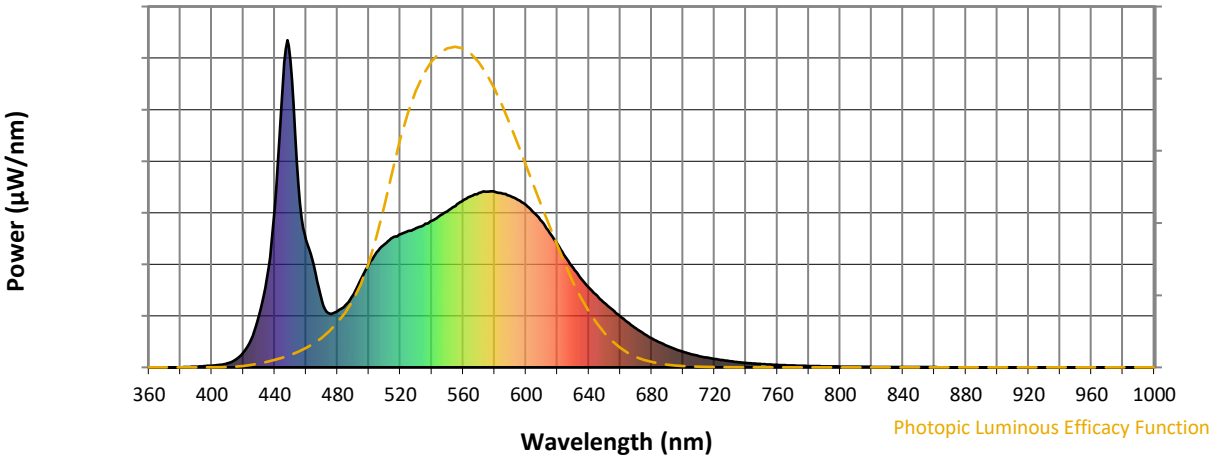


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

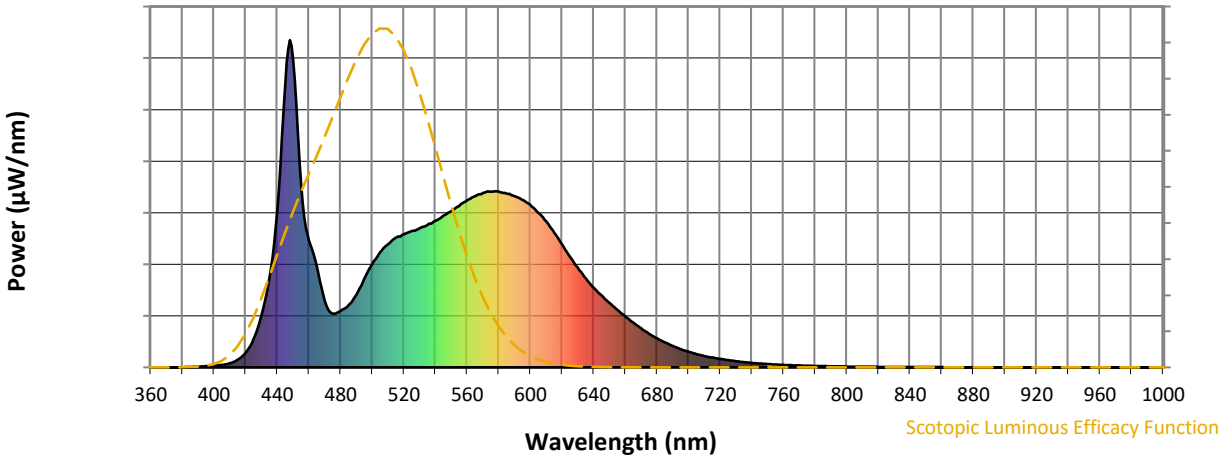


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

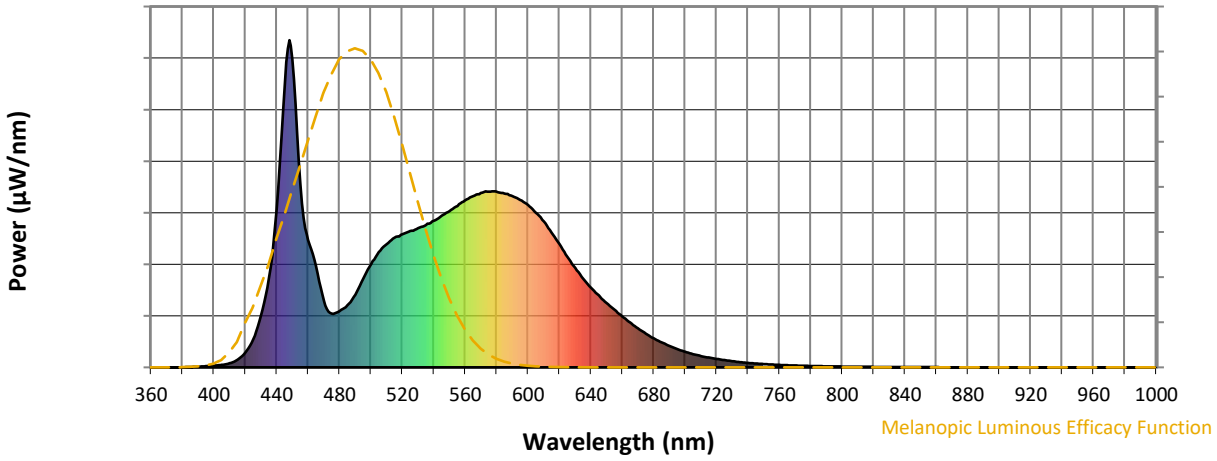


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

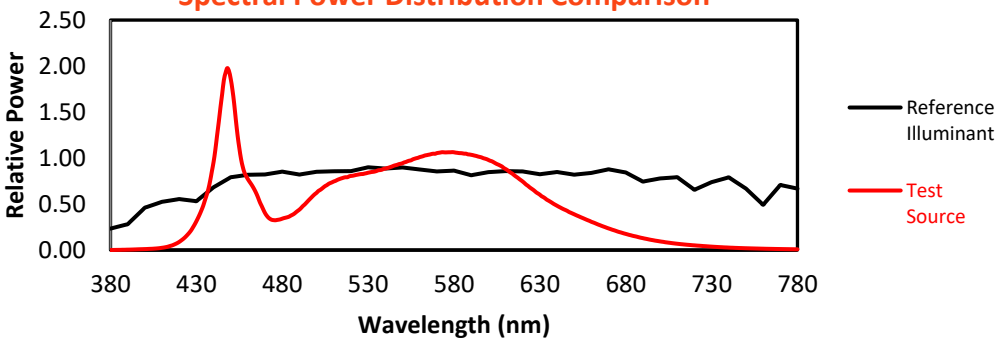
REPORT NUMBER: SP1-2501-332-10

TM-30-18

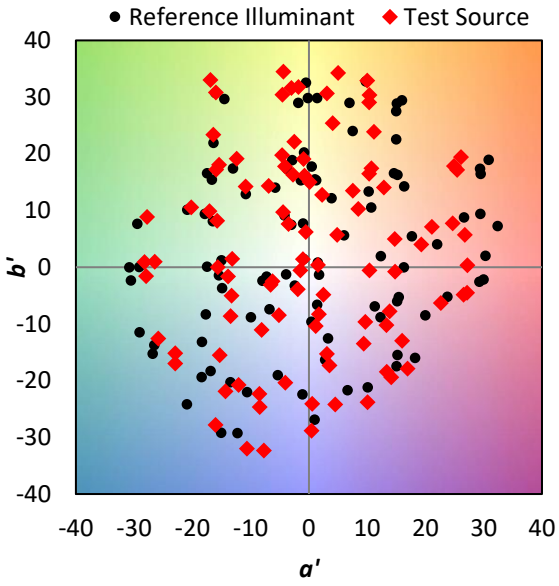
Summary

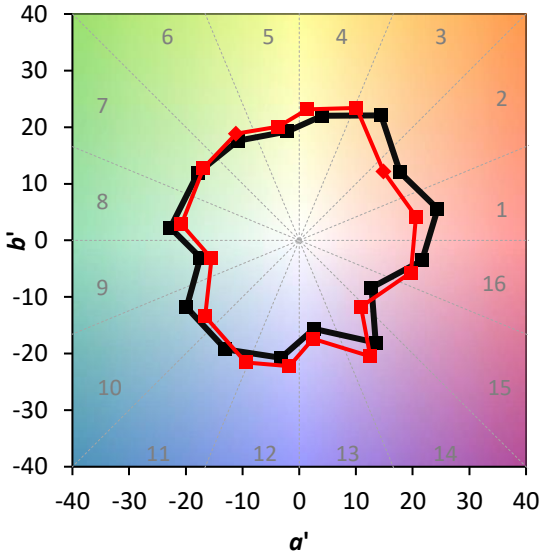
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

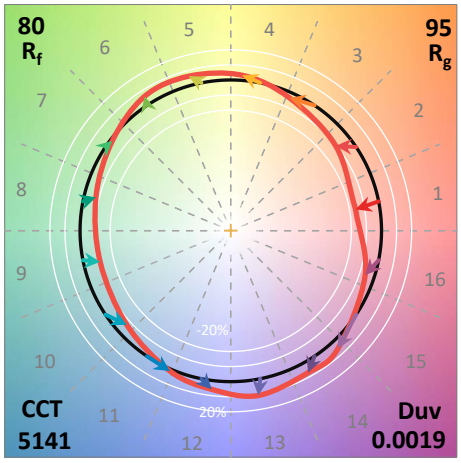
Spectral Power Distribution Comparison

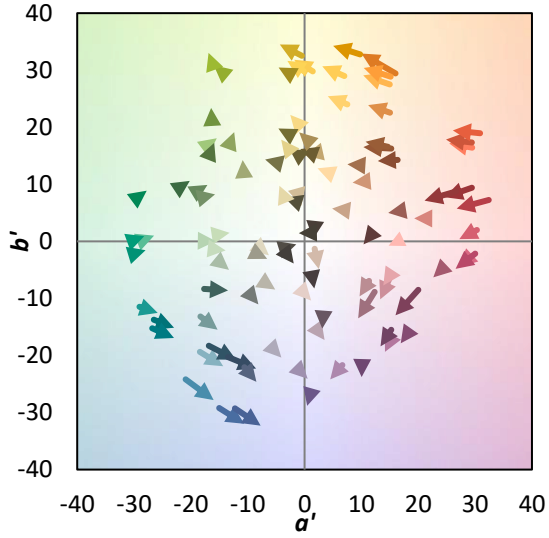


Color Vector Graphics







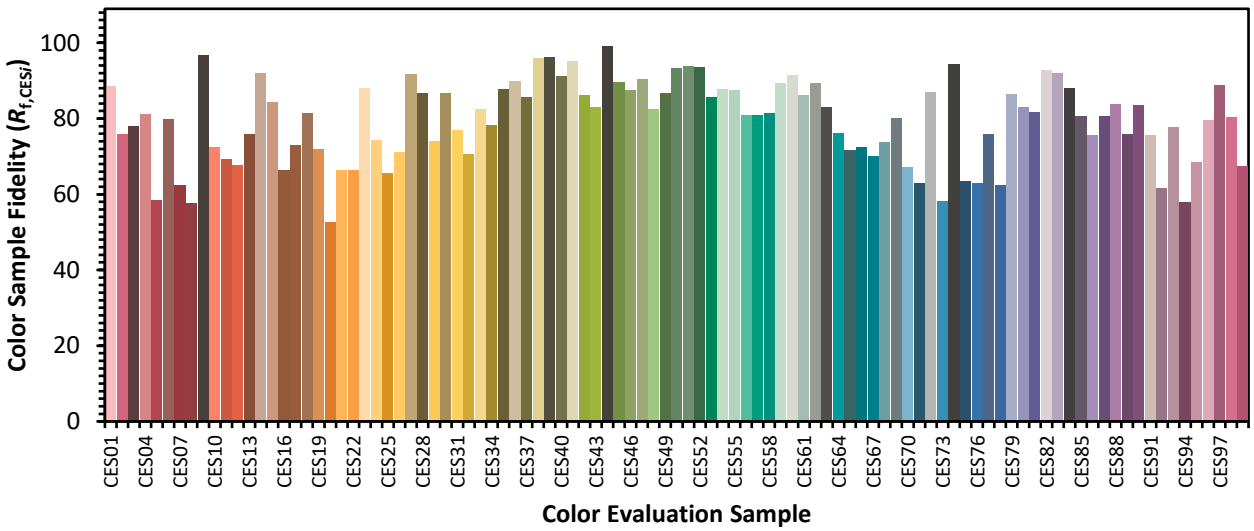


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

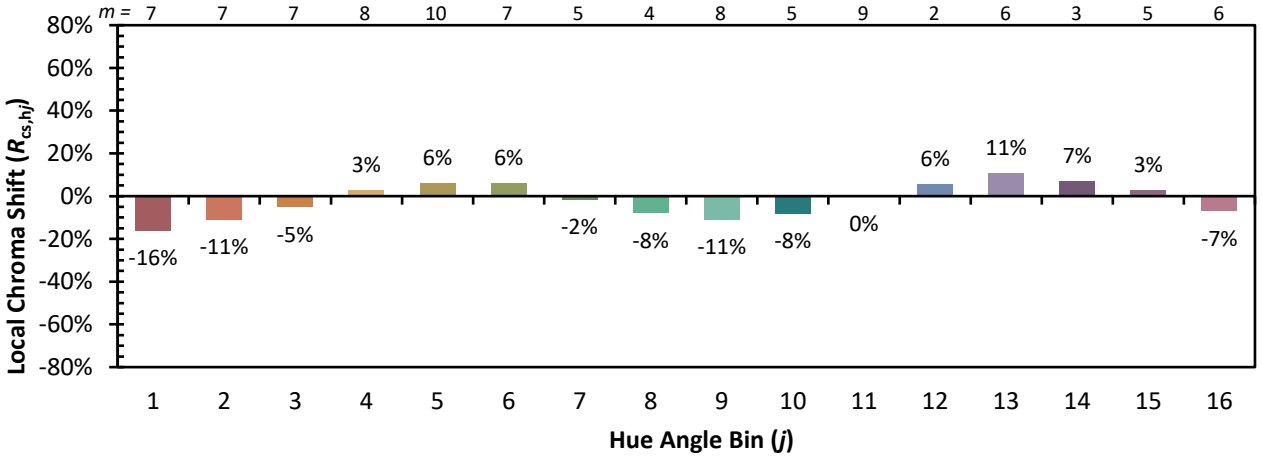
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

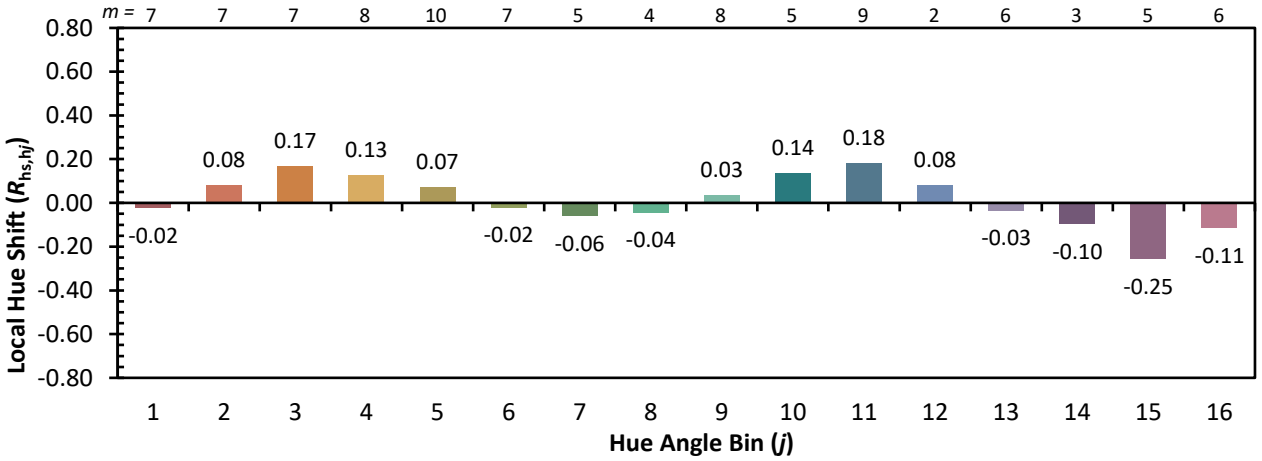


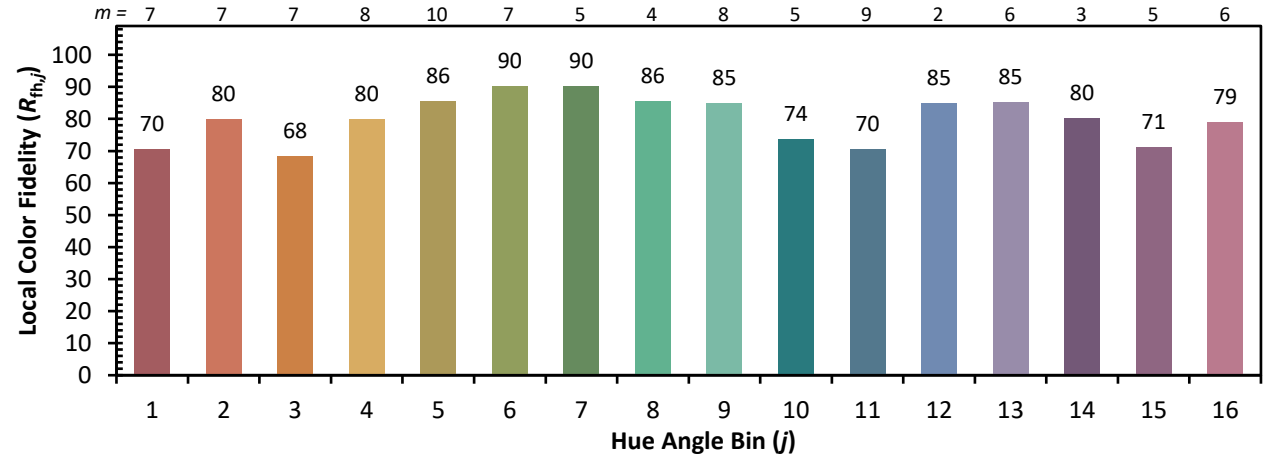
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Color Rendition by Hue-Angle Bin



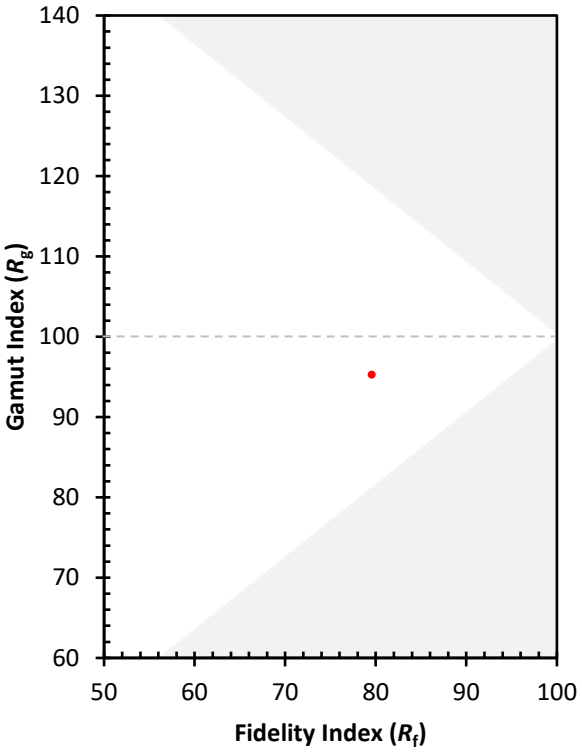


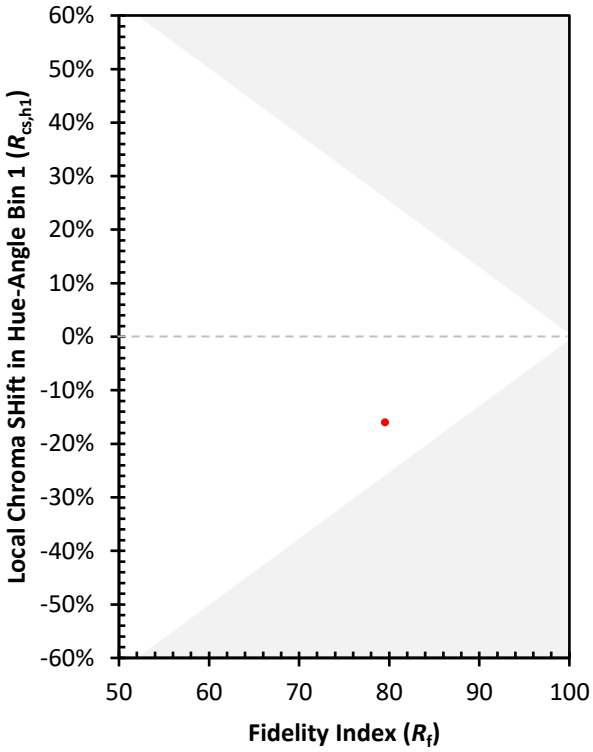


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Measure Comparisons





(END OF REPORT)