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: P1046226

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

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046226
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-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3121.7 lumens
Efficiency:	N/A
Efficacy:	157.7 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

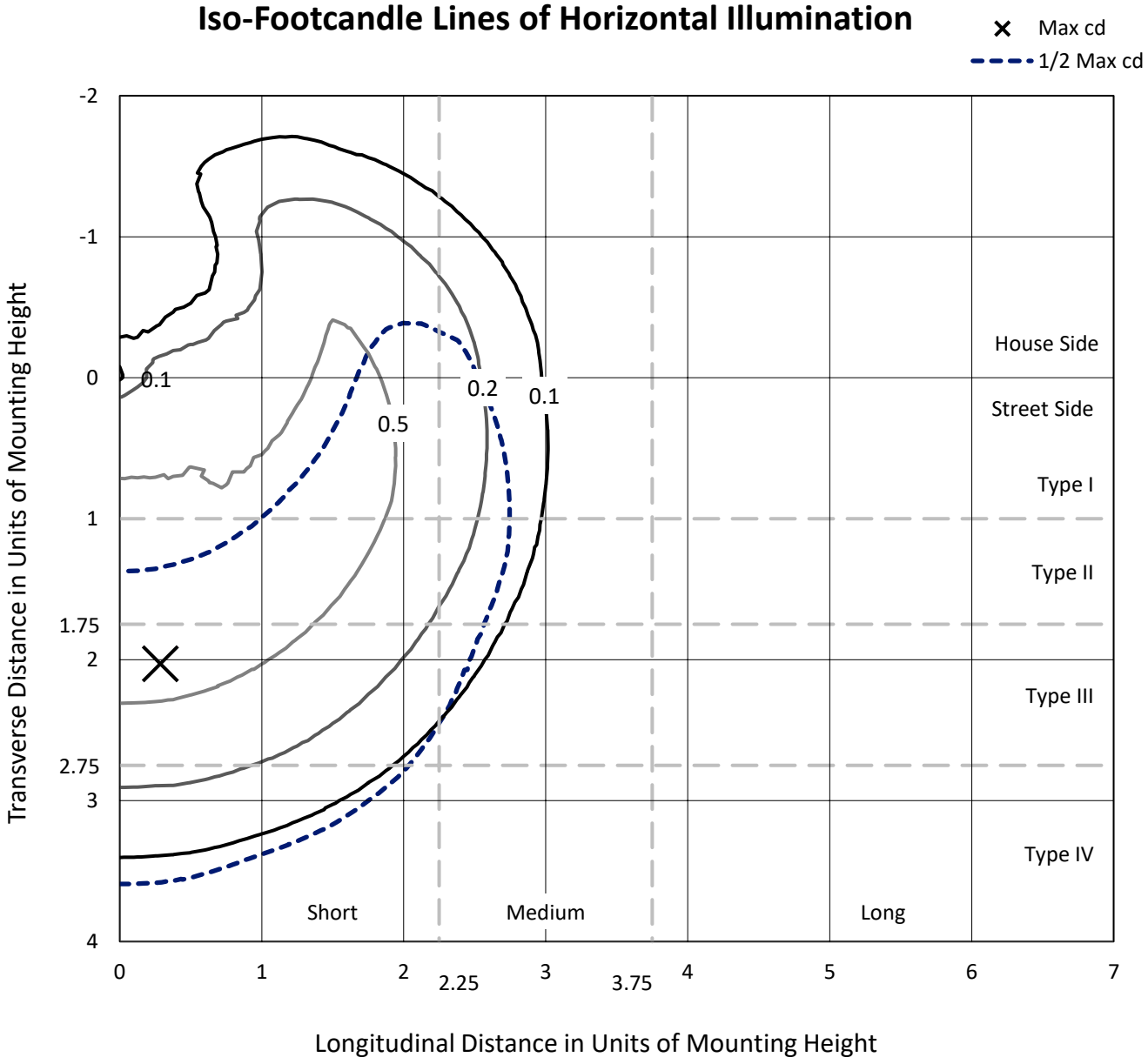


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Iso-Footcandle Lines of Horizontal Illumination



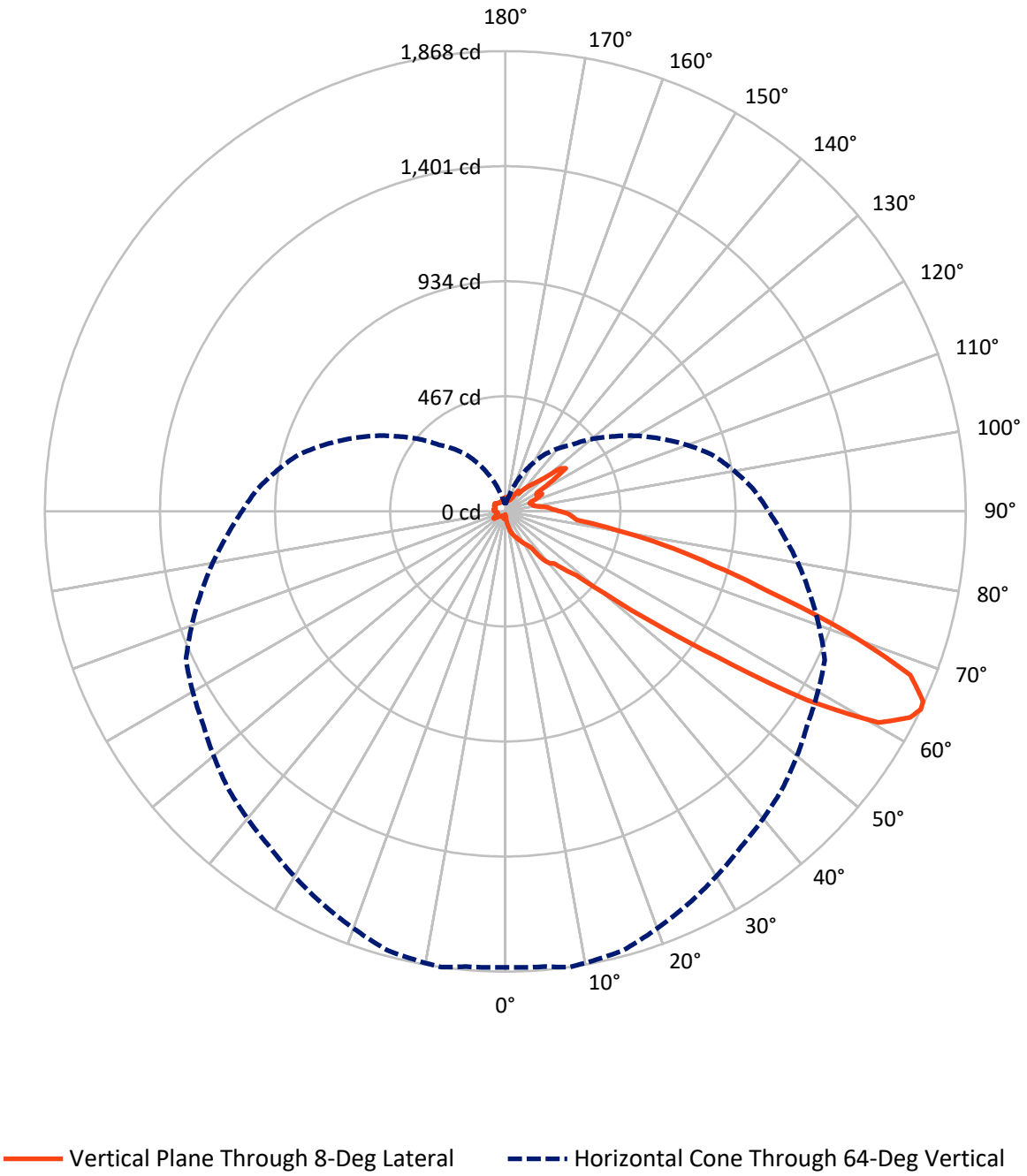
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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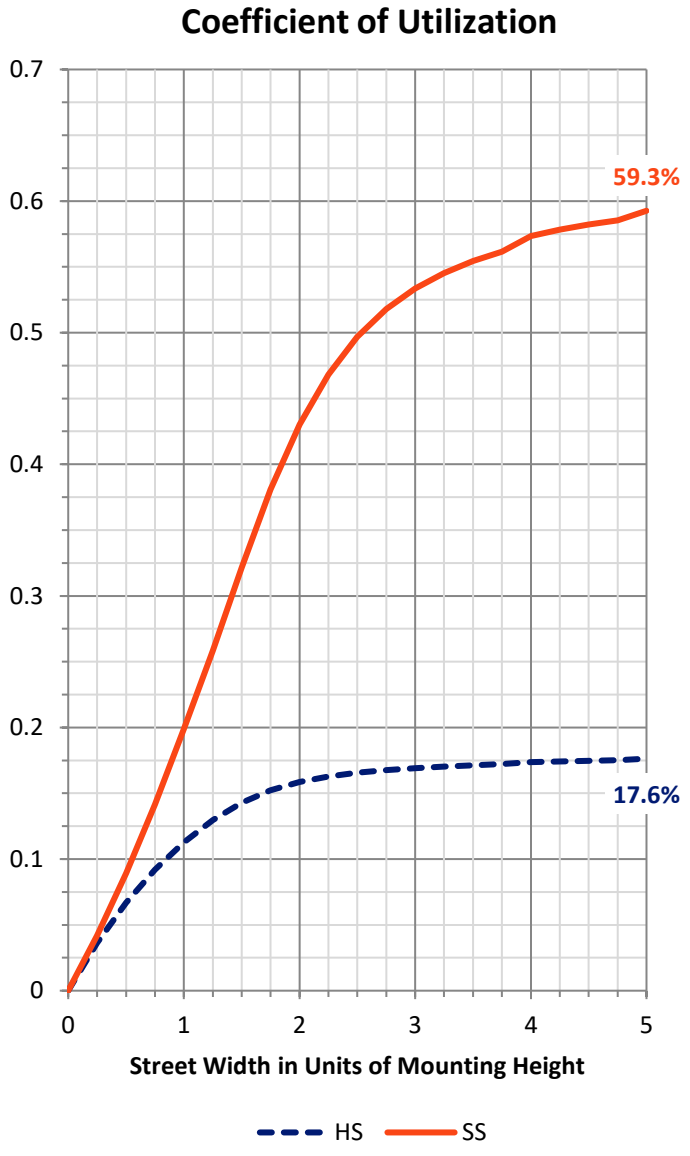
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	570.9	213.3	784.2
	% Fixture	18.3	6.8	25.1
Street Side	Lumens	1929.2	408.4	2337.6
	% Fixture	61.8	13.1	74.9
Total	Lumens	2500.1	621.6	3121.7
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	17.2	0.6
20°-30°	37.3	1.2
30°-40°	74.6	2.4
40°-50°	161.4	5.2
50°-60°	559.6	17.9
60°-70°	941.3	30.2
70°-80°	511.8	16.4
80°-90°	193.8	6.2
90°-100°	122.3	3.9
100°-110°	82.5	2.6
110°-120°	89.2	2.9
120°-130°	146.8	4.7
130°-140°	90.4	2.9
140°-150°	47.3	1.5
150°-160°	24.6	0.8
160°-170°	13.4	0.4
170°-180°	5.0	0.2
0°-90°	2500.1	80.1
0°-180°	3121.7	100.0



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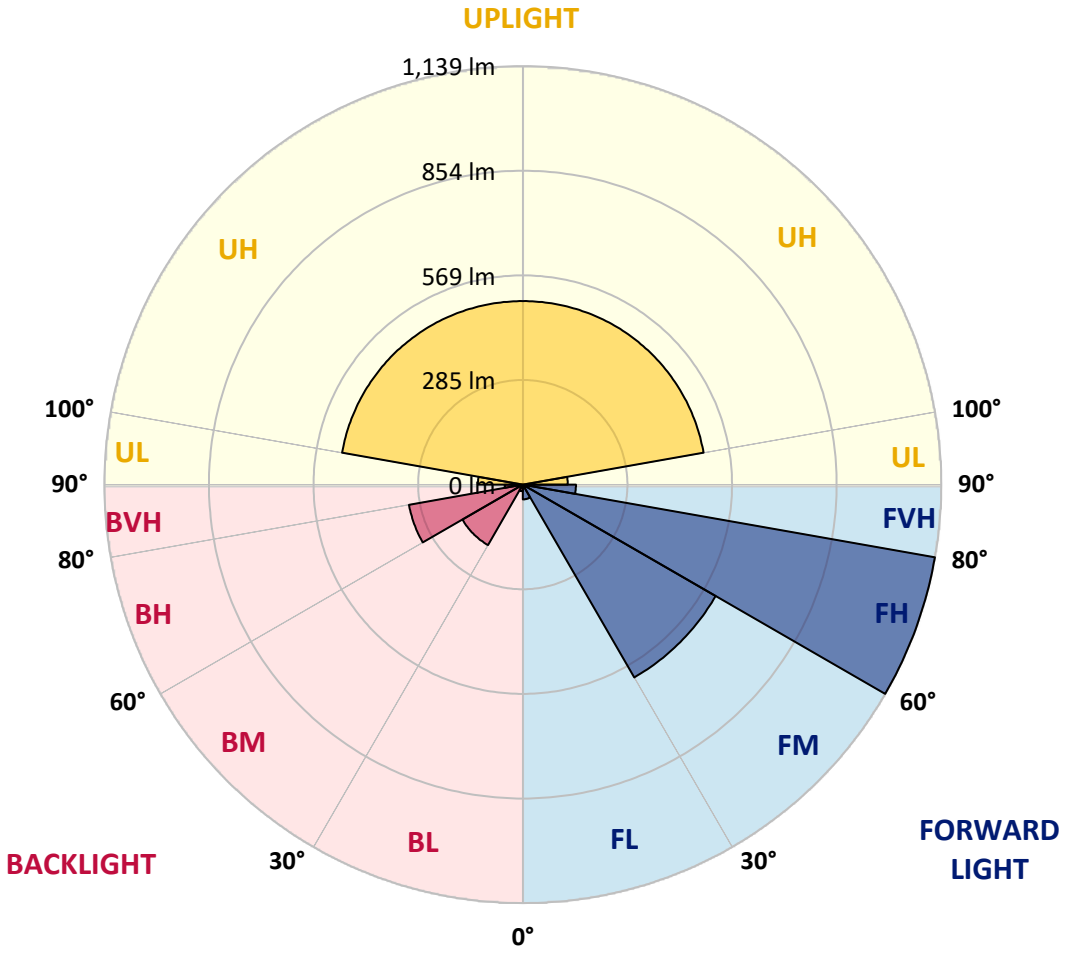
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	40.2	1.3			
FM	(30°-60°)	605.8	19.4			
FH	(60°-80°)	1138.7	36.5			G1/1800
FVH	(80°-90°)	144.5	4.6			G2/225
BL	(0°-30°)	17.5	0.6	B0/110		
BM	(30°-60°)	189.8	6.1	B0/220		
BH	(60°-80°)	314.4	10.1	B1/500		G1/500
BVH	(80°-90°)	49.2	1.6			G1/100
UL	(90°-100°)	122.3	3.9		U3/500	
UH	(100°-180°)	499.4	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°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	21.8	21.8	21.8	22.4	22.9	23.1	22.4	22.0	21.8	21.6	20.9
5°	31.3	31.5	31.5	32.2	31.7	32.2	31.3	30.6	29.6	28.3	27.2
7.5°	44.2	44.2	44.0	44.2	44.0	43.2	43.2	43.8	42.1	39.5	37.1
10°	60.0	60.4	60.2	59.3	58.1	57.0	57.0	57.8	55.2	50.7	47.3
12.5°	76.0	76.8	76.0	76.2	74.0	73.2	71.4	71.0	67.5	63.2	57.2
15°	87.8	88.5	88.7	89.3	89.1	86.3	83.3	80.1	77.3	73.4	67.1
17.5°	97.3	97.5	98.0	97.8	96.5	93.7	90.2	86.8	82.2	78.1	72.3
20°	106.6	107.5	107.3	107.0	106.4	104.2	100.1	95.2	91.3	85.2	79.2
22.5°	116.1	115.5	115.9	115.7	115.7	113.5	109.2	103.4	98.2	92.1	86.8
25°	127.1	126.9	127.1	126.5	125.6	124.5	119.1	112.4	106.6	100.4	92.8
27.5°	138.8	139.0	139.2	138.1	137.0	135.3	127.5	120.9	114.6	106.8	96.2
30°	151.7	151.1	151.3	149.8	149.1	143.7	136.2	128.2	121.3	110.9	100.6
32.5°	163.6	162.5	162.3	161.0	159.9	152.1	144.4	136.6	128.4	117.8	108.8
35°	180.2	182.4	181.5	181.5	184.3	172.4	163.4	155.8	147.0	136.0	126.5
37.5°	248.0	247.5	244.9	241.5	231.8	223.4	219.3	207.4	193.1	181.1	166.0
40°	280.8	279.5	276.7	269.8	262.9	252.9	246.7	239.3	232.0	210.6	186.5
42.5°	288.5	287.5	288.1	296.3	305.4	298.0	273.6	247.1	234.2	219.7	207.6
45°	331.0	334.7	335.8	335.6	329.1	321.3	310.8	294.8	272.3	251.8	226.6
47.5°	385.0	384.6	387.2	383.7	389.1	375.5	361.9	345.3	322.0	294.1	263.9
50°	526.1	521.6	522.3	523.5	515.3	505.4	493.1	483.8	438.3	398.8	352.8
52.5°	750.4	751.0	746.3	746.0	721.7	702.5	680.9	681.7	614.8	561.7	495.3
55°	1054.6	1055.1	1038.0	1052.1	1024.6	1022.1	974.4	912.9	822.9	750.6	683.7
57.5°	1433.6	1446.6	1445.0	1420.0	1378.1	1355.5	1278.4	1213.9	1086.6	973.1	882.2
60°	1756.5	1750.4	1740.5	1721.5	1596.1	1543.4	1486.7	1431.7	1326.1	1169.0	1033.1
62.5°	1848.6	1844.1	1842.3	1832.8	1733.8	1647.0	1575.6	1485.6	1415.0	1261.0	1122.4
64°	1850.1	1854.2	1867.6	1844.9	1756.9	1664.3	1590.3	1498.3	1429.7	1277.8	1133.2
65°	1846.7	1845.8	1862.6	1833.9	1755.8	1663.4	1581.2	1493.2	1425.2	1273.3	1130.4
67.5°	1754.1	1750.4	1772.0	1735.1	1666.9	1583.6	1502.9	1408.4	1348.6	1202.7	1064.4
70°	1439.4	1439.2	1472.9	1442.0	1421.7	1333.5	1251.0	1164.3	1100.4	980.6	865.0
72.5°	1103.0	1101.0	1123.5	1100.4	1090.0	1048.4	971.3	894.7	833.9	744.1	650.4
75°	879.0	879.8	868.0	845.3	836.9	818.3	784.0	738.3	687.3	605.8	519.4
77.5°	658.2	653.9	659.1	627.3	625.0	619.4	619.1	589.8	546.6	494.6	426.2
80°	438.7	441.3	450.6	442.2	444.6	442.6	454.7	423.6	390.8	360.2	323.7
82.5°	283.8	290.7	293.3	304.9	315.1	319.6	303.0	271.7	251.2	240.0	223.8
85°	272.3	275.2	273.6	266.7	263.3	257.7	257.5	247.5	237.0	215.4	189.0
87.5°	251.2	254.4	253.1	247.1	239.3	238.7	237.2	230.3	225.3	208.3	184.9
90°	214.3	214.5	215.6	214.5	213.0	211.9	203.3	199.2	196.2	181.5	165.7
92.5°	185.8	188.4	187.8	185.8	180.8	183.9	174.6	166.8	165.1	154.9	142.9
95°	170.7	172.4	172.9	169.4	164.7	163.6	156.5	150.4	147.6	140.9	126.2
97.5°	141.6	140.5	139.6	138.8	135.5	132.1	127.5	120.0	117.6	110.3	102.1
100°	120.9	121.3	120.9	120.2	117.4	115.7	112.4	106.4	103.8	99.1	93.4
102.5°	115.2	115.5	115.5	115.7	110.9	107.0	103.6	99.3	96.9	92.8	87.4
105°	110.1	110.1	110.5	110.7	106.0	100.4	95.4	93.0	91.9	87.2	81.6
107.5°	103.6	103.4	104.0	101.2	96.5	94.1	88.9	86.1	85.7	82.0	76.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	8°	15°	25°	35°	45°	55°	65°	75°	85°
110°	113.1	110.7	*110.3*	103.4	96.9	91.5	88.9	86.3	84.8	79.8	76.2
112.5°	148.0	144.8	*143.9*	137.5	114.8	112.9	110.5	109.6	108.8	102.1	95.8
115°	163.1	163.1	*165.7*	163.1	147.4	129.5	126.9	123.0	124.5	116.3	107.3
117.5°	130.6	139.6	*142.2*	134.4	135.1	123.7	106.0	99.9	96.9	94.5	98.6
120°	146.5	152.6	*150.0*	135.7	129.3	122.6	123.4	121.3	110.5	95.6	97.1
122.5°	218.4	224.0	*225.9*	227.0	230.0	225.5	215.4	201.1	190.3	172.4	162.3
125°	305.8	301.7	*301.3*	303.2	305.6	299.8	295.4	292.6	285.9	262.4	229.4
127.5°	280.8	278.8	*282.1*	281.6	287.5	277.5	275.6	277.1	274.5	261.3	242.1
130°	201.3	204.8	*207.2*	214.9	226.4	217.5	209.3	197.0	196.2	202.6	192.5
132.5°	169.0	170.5	*174.8*	184.9	193.6	189.9	177.8	166.0	165.1	170.5	169.6
135°	149.3	150.4	*151.1*	151.5	150.0	153.4	150.8	146.5	143.7	143.9	141.4
137.5°	133.4	133.8	*133.4*	129.9	125.8	125.2	131.6	131.9	129.3	124.7	121.3
140°	115.7	115.7	*113.9*	111.6	110.9	111.1	114.8	115.5	112.4	108.8	103.6
142.5°	90.4	89.3	*89.6*	93.4	100.4	98.8	94.1	88.0	87.2	91.5	89.8
145°	97.8	97.5	*96.9*	97.1	95.4	92.6	90.9	88.9	85.5	82.7	79.8
147.5°	98.6	97.8	*98.2*	97.3	96.5	95.2	94.5	95.4	94.5	92.6	88.9
150°	77.9	78.3	*78.8*	77.7	78.6	79.0	78.6	77.9	79.0	76.6	75.1
152.5°	60.9	60.6	*60.4*	60.9	60.6	61.5	61.7	61.5	61.1	60.9	58.5
155°	57.2	57.8	*57.4*	56.1	57.0	57.6	58.5	59.1	58.5	57.4	55.2
157.5°	52.7	52.7	*52.7*	52.7	52.9	53.1	54.2	54.6	54.6	54.0	52.4
160°	49.0	49.2	*49.2*	49.2	49.6	50.1	50.7	51.1	51.6	51.1	50.3
162.5°	46.8	46.6	*46.6*	46.8	46.8	47.5	48.1	49.0	49.2	48.8	48.8
165°	45.5	45.5	*45.5*	45.8	46.2	46.6	47.5	47.7	47.9	48.3	48.3
167.5°	47.0	47.0	*47.0*	47.3	47.7	48.3	48.8	49.2	50.1	50.3	50.3
170°	49.4	49.4	*49.4*	49.6	49.9	50.1	50.3	50.7	50.9	51.4	51.1
172.5°	51.8	51.6	*51.8*	51.8	51.8	51.8	51.8	52.0	52.2	52.2	52.2
175°	54.4	54.4	*54.6*	54.4	54.0	54.0	54.0	54.2	54.2	54.2	54.0
177.5°	57.0	57.0	*56.8*	57.0	56.8	56.5	56.3	56.1	55.7	55.7	55.2
180°	55.5	55.5	*55.5*	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	20.5	19.6	18.6	17.3	16.0	15.1	14.2	13.2	12.5	12.3	12.3
5°	25.9	25.2	24.2	22.4	21.4	19.4	17.7	16.6	15.5	14.5	13.6
7.5°	36.3	36.0	36.7	38.0	36.3	31.7	27.0	24.4	24.6	25.9	26.5
10°	45.5	44.2	44.5	47.5	44.7	36.0	29.6	27.2	28.5	31.1	31.5
12.5°	55.2	53.3	51.8	51.1	44.9	35.2	29.3	26.5	27.2	29.3	29.3
15°	64.1	61.7	58.3	53.7	46.4	37.8	30.6	26.5	26.5	26.3	25.9
17.5°	69.1	66.5	60.2	53.1	45.1	37.3	30.0	25.9	23.7	22.0	21.8
20°	76.8	75.5	67.5	57.4	46.4	36.5	28.9	24.8	22.4	21.1	20.7
22.5°	84.4	80.7	70.4	60.0	47.5	36.3	28.5	24.6	22.4	21.4	20.9
25°	88.5	83.9	73.6	63.0	49.0	36.5	28.9	25.0	22.7	21.6	21.4
27.5°	91.7	87.0	77.3	65.8	50.9	37.3	30.2	25.7	23.1	21.8	21.6
30°	96.0	91.5	81.6	69.3	52.7	39.3	31.7	26.8	23.7	22.4	22.2
32.5°	104.2	98.6	87.0	72.3	54.8	41.2	33.7	28.5	24.8	22.9	22.9
35°	121.3	115.2	99.7	80.5	57.2	42.7	35.0	29.6	25.7	23.5	23.3
37.5°	157.1	149.6	130.6	100.8	63.0	44.9	36.5	30.2	26.1	24.2	23.7
40°	174.4	160.3	139.0	112.7	72.7	48.3	38.8	31.7	26.8	24.4	24.2
42.5°	195.3	183.7	154.3	115.7	80.7	56.3	42.9	33.9	28.1	24.8	24.6
45°	215.8	204.4	178.3	140.7	97.1	68.8	49.6	37.6	30.0	25.9	25.2
47.5°	251.6	232.9	201.6	164.7	119.6	87.2	61.1	42.7	33.2	27.2	26.3
50°	340.3	328.0	280.1	223.6	155.6	113.5	83.1	54.8	36.9	28.1	26.8
52.5°	459.0	435.7	381.3	312.1	225.7	168.5	121.5	81.4	45.3	28.9	27.2
55°	647.0	610.7	548.1	428.2	323.9	255.5	190.1	133.6	69.1	30.9	27.4
57.5°	847.9	815.1	740.4	591.7	439.0	325.4	250.3	188.6	96.9	35.2	29.8
60°	982.4	925.2	839.9	696.2	530.7	382.6	280.1	197.9	100.6	36.0	31.1
62.5°	1059.4	1000.3	874.2	709.1	547.1	395.4	293.1	181.3	80.3	35.0	32.4
64°	*1068.5*	*1011.5*	*874.7*	*696.8*	*529.6*	*382.2*	*284.0*	*170.1*	*69.7*	*34.5*	*33.0*
65°	1061.3	1008.7	864.1	682.2	506.1	365.1	273.2	158.8	61.9	34.1	33.2
67.5°	992.1	945.9	794.4	618.7	450.0	315.3	224.2	122.1	48.6	33.2	32.8
70°	803.4	782.3	653.0	499.2	355.6	251.4	176.7	93.4	41.2	32.4	31.9
72.5°	602.7	576.0	487.3	380.9	277.1	195.5	134.2	71.9	36.5	31.5	31.1
75°	483.2	457.1	386.3	300.0	206.1	146.1	99.3	53.7	34.3	31.3	30.9
77.5°	399.5	378.5	317.7	228.3	146.5	104.7	72.9	43.8	33.7	31.5	31.1
80°	307.3	303.9	248.2	166.2	103.8	78.1	58.9	41.0	33.9	32.4	31.9
82.5°	215.6	207.0	175.2	123.7	89.8	71.4	56.5	41.7	35.6	34.3	34.1
85°	177.6	170.9	150.0	118.9	85.5	69.1	55.9	42.7	37.3	36.3	35.8
87.5°	175.7	168.3	148.5	113.7	81.1	65.8	53.3	41.7	37.1	36.5	36.9
90°	159.5	154.1	135.7	104.9	80.5	66.9	55.7	46.0	41.2	39.1	38.6
92.5°	139.6	136.4	123.4	101.9	83.5	70.8	60.6	50.9	46.6	45.3	44.7
95°	121.9	120.6	110.1	92.6	77.0	66.7	57.4	49.0	45.3	43.6	43.4
97.5°	99.9	98.4	90.2	78.8	67.3	58.7	51.8	45.3	42.7	42.5	42.3
100°	91.3	90.2	84.4	77.0	68.0	61.5	55.5	50.1	47.9	47.9	48.1
102.5°	84.4	83.7	78.6	71.0	63.9	57.8	52.9	47.9	45.3	45.3	43.8
105°	78.8	77.7	72.9	66.9	59.6	54.0	49.2	45.5	42.7	41.9	41.9
107.5°	73.8	72.5	68.6	62.8	57.4	52.0	47.7	44.2	42.3	41.7	41.7

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

Scaled Data Report

REPORT NUMBER: P1046226
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	74.0	72.9	68.4	62.2	57.2	53.1	49.6	46.4	44.7	43.4	43.4
112.5°	91.1	86.5	78.6	69.3	63.7	58.3	52.9	48.3	46.2	45.8	45.3
115°	103.2	98.6	88.7	76.6	66.5	58.9	53.5	50.1	48.1	49.4	50.1
117.5°	103.6	95.4	76.4	70.6	63.2	57.0	53.3	51.1	49.9	51.1	51.1
120°	105.5	88.9	78.8	76.4	67.8	58.9	54.8	54.4	53.1	50.5	50.5
122.5°	156.9	141.8	125.6	105.1	87.2	78.8	71.4	58.7	52.7	49.9	49.6
125°	216.2	200.5	175.2	147.8	121.9	95.0	70.6	60.2	54.0	50.5	49.9
127.5°	229.8	217.5	184.3	151.5	114.8	88.5	70.8	61.9	55.7	52.0	51.4
130°	185.4	175.7	153.2	126.5	101.0	81.8	69.1	60.2	54.2	50.5	49.6
132.5°	164.9	155.8	133.8	109.4	89.6	74.7	63.2	54.6	48.6	46.0	46.0
135°	137.9	131.6	112.0	97.5	83.3	70.8	59.6	51.6	46.6	45.1	45.1
137.5°	118.3	113.3	99.3	87.8	76.8	66.0	56.3	49.9	46.4	44.9	44.7
140°	101.2	98.0	89.8	78.6	68.0	57.4	49.9	46.2	44.7	44.0	43.8
142.5°	88.0	85.7	78.3	66.7	56.3	49.9	47.0	46.0	44.5	42.9	42.7
145°	77.0	75.1	66.7	60.0	55.0	52.4	50.3	47.0	43.4	41.4	41.2
147.5°	86.5	83.5	76.2	68.4	60.4	54.4	49.6	45.3	41.9	40.6	40.6
150°	74.5	72.3	67.8	61.7	55.0	49.4	45.3	42.5	41.2	41.0	41.0
152.5°	57.8	56.8	55.5	52.4	48.1	44.5	41.9	40.6	41.0	41.9	42.1
155°	54.4	54.0	52.7	49.9	47.0	43.6	41.4	40.8	41.4	42.3	42.5
157.5°	51.8	51.6	50.5	47.9	45.3	43.2	41.7	41.2	41.9	42.5	42.5
160°	49.6	49.4	47.9	46.0	44.0	42.5	41.4	41.4	42.1	42.5	42.5
162.5°	48.3	48.1	47.0	45.5	44.2	43.4	43.2	43.2	43.4	43.6	43.6
165°	48.3	48.1	47.0	45.8	44.9	44.9	45.3	45.5	44.9	44.5	44.7
167.5°	50.3	49.9	48.6	47.5	47.3	47.5	48.1	48.1	47.7	47.0	46.8
170°	50.9	50.7	50.3	49.9	49.9	49.9	50.1	50.3	50.3	50.5	50.5
172.5°	52.2	52.2	52.0	52.0	52.2	52.0	52.0	52.4	52.9	53.1	53.3
175°	54.0	53.7	54.0	54.0	54.2	54.0	53.7	54.2	54.8	55.2	55.2
177.5°	55.2	55.2	55.0	54.8	54.8	54.8	54.8	55.0	55.0	55.0	54.8
180°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5

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

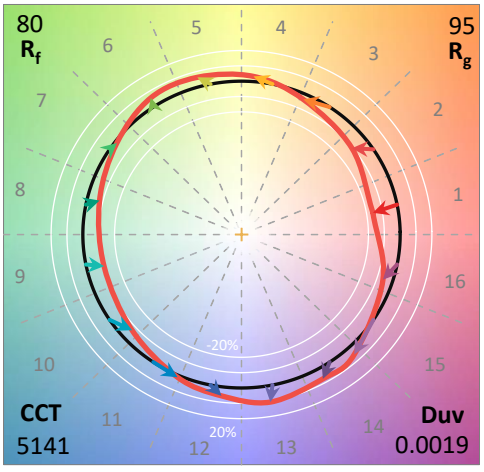
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

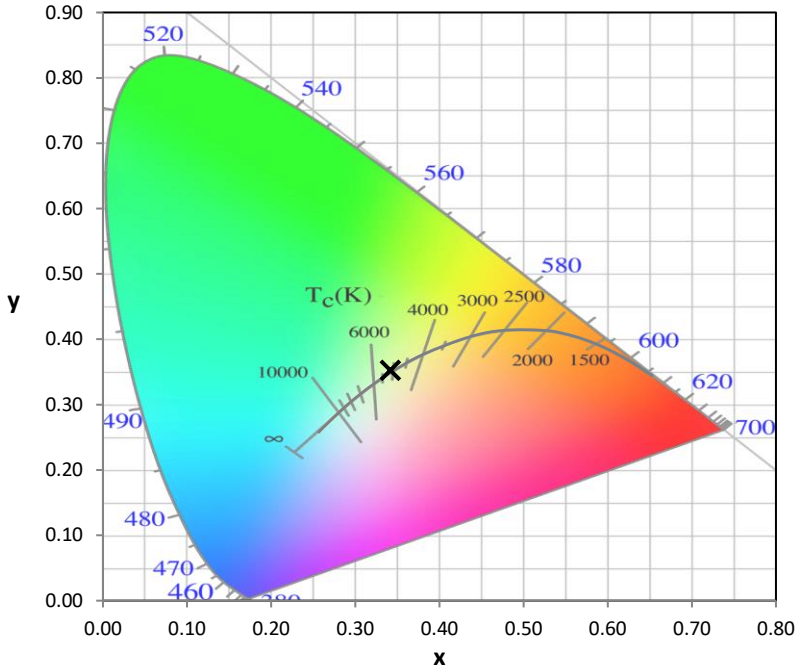
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

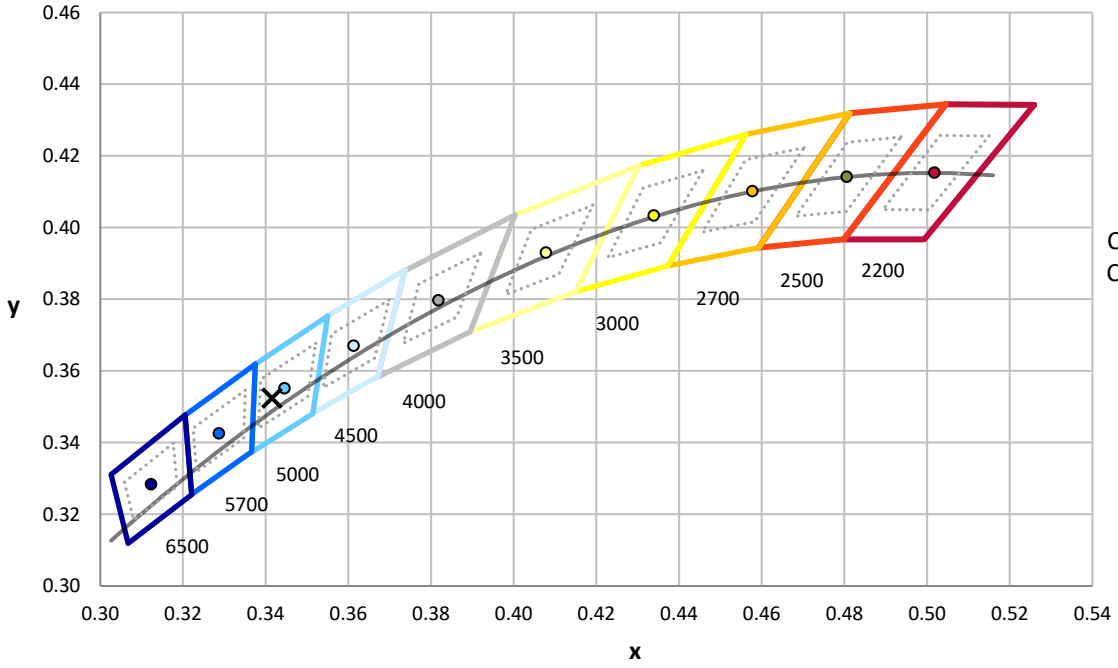
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

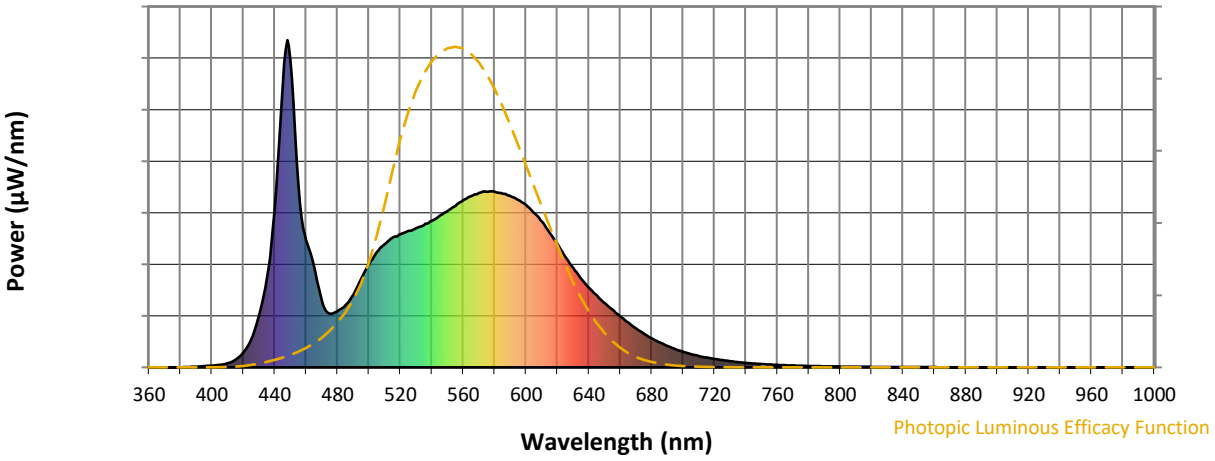


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

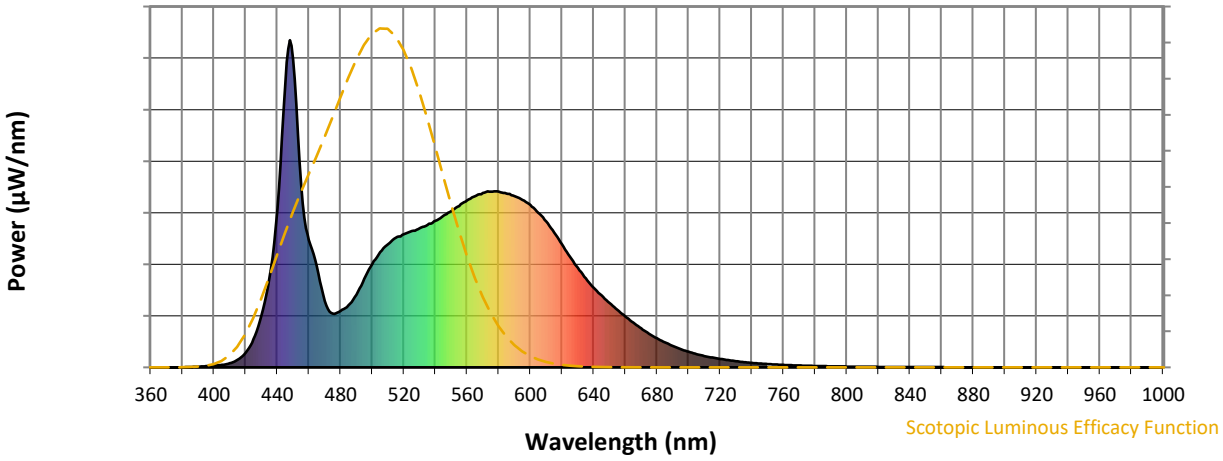


Photopic Lumens: NR

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

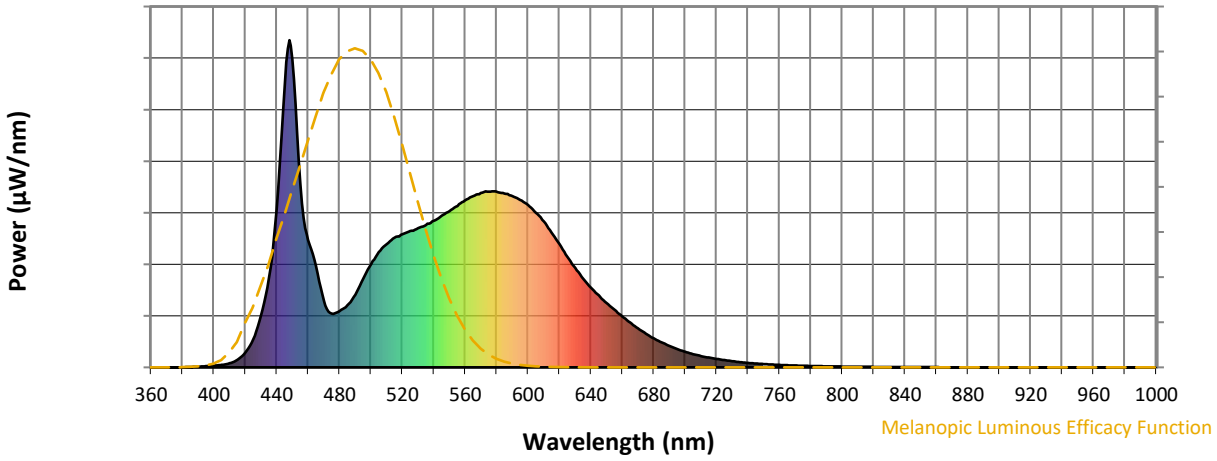


Scotopic Lumens: NR **S/P: 1.92**

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			

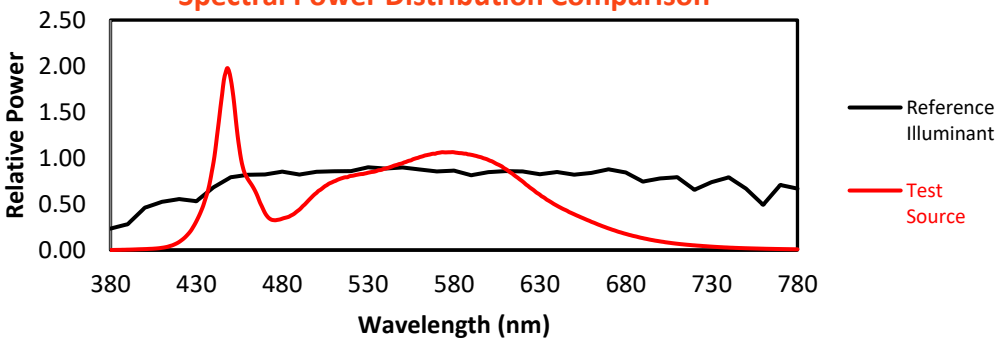
REPORT NUMBER: SP1-2501-332-10

TM-30-18

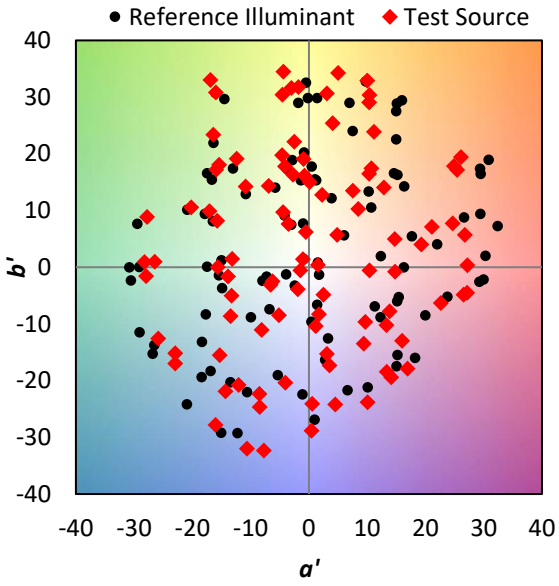
Summary

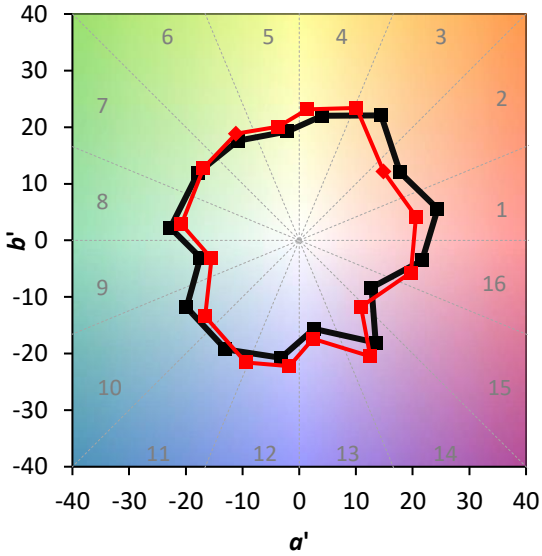
R_f = 79.6
R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

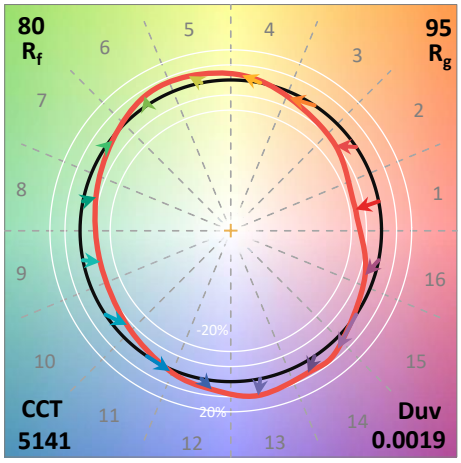
Spectral Power Distribution Comparison

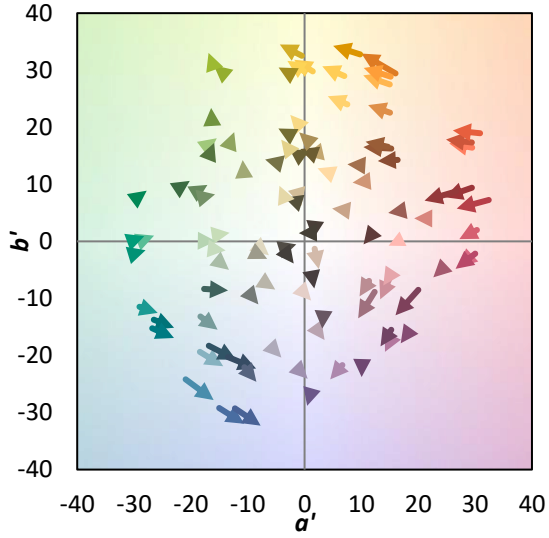


Color Vector Graphics







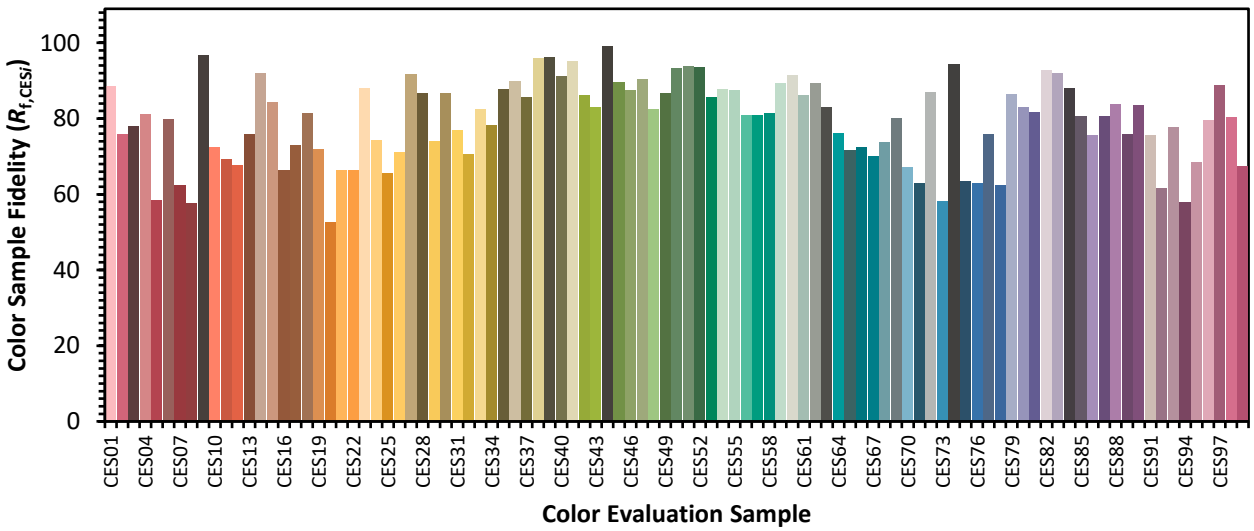


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

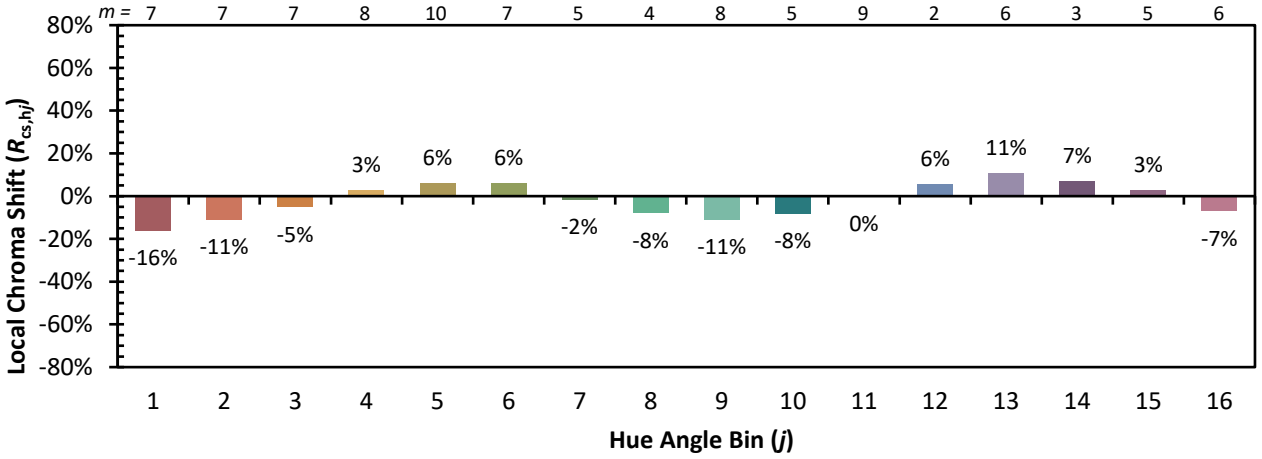
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 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	

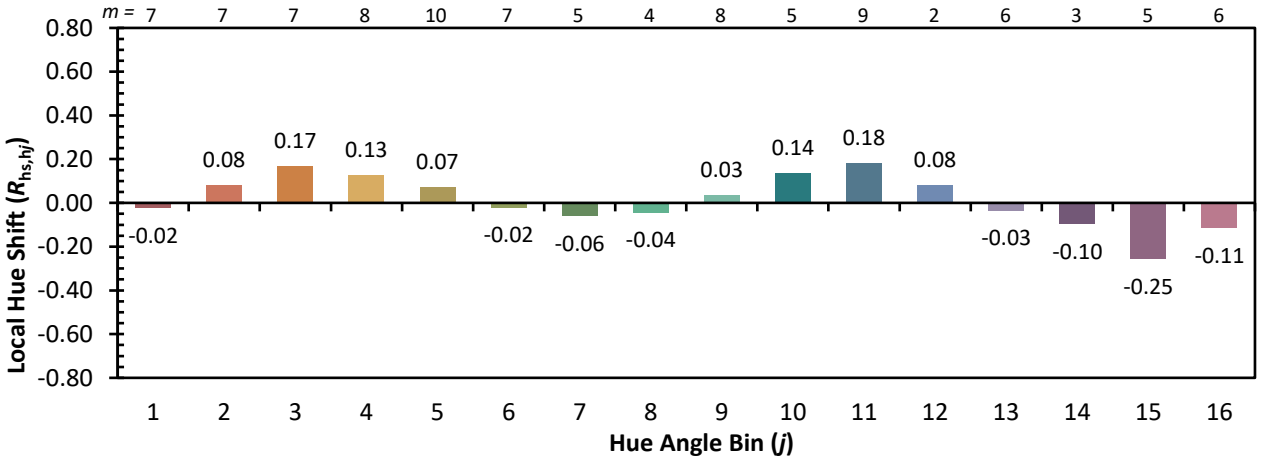


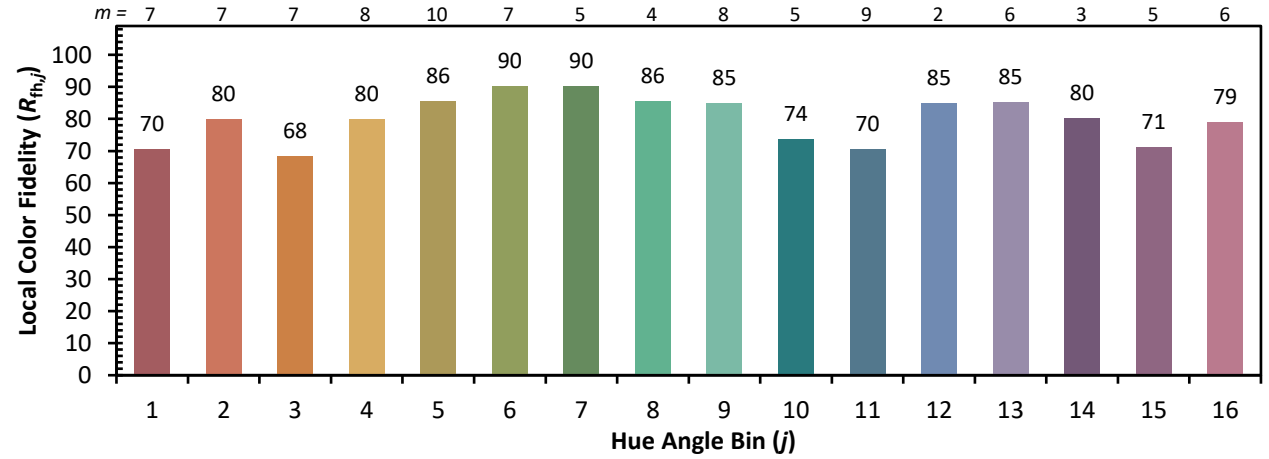
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Color Rendition by Hue-Angle Bin



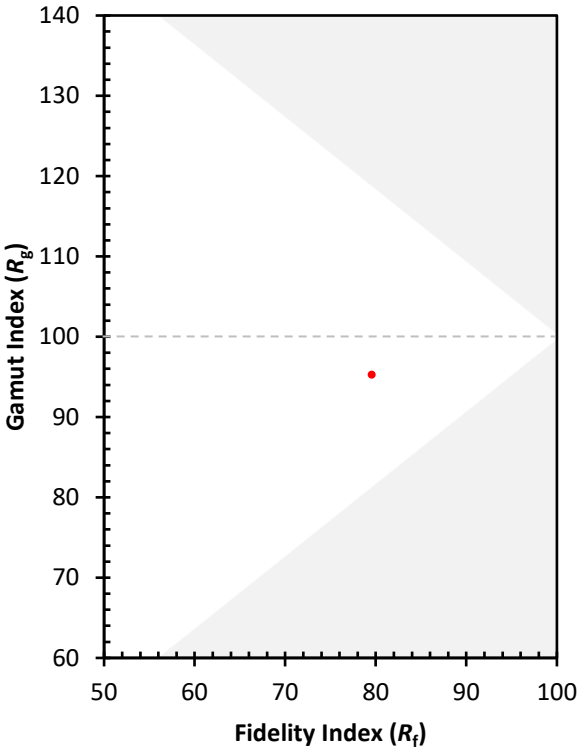


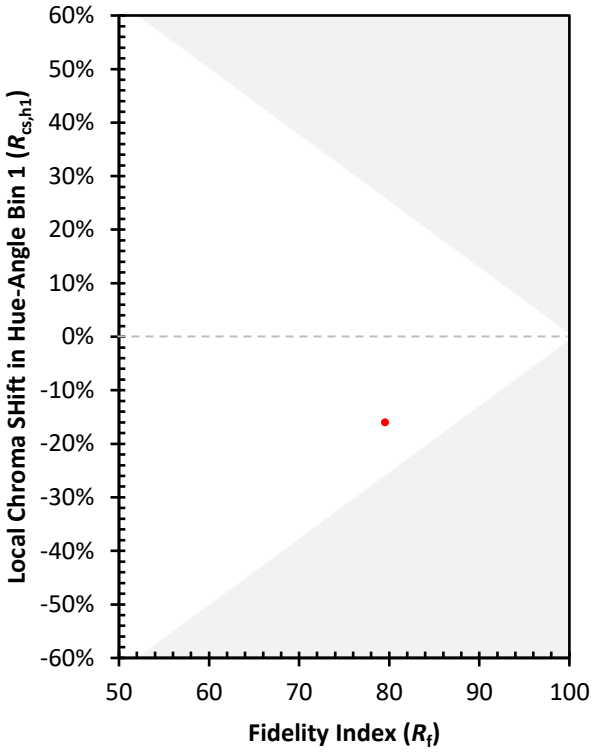


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Measure Comparisons





(END OF REPORT)