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: P1045819

Luminaire Tested: **FFX-CLB-40-750-U-FR-T5-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:	P1045819
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-750-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4411.1 lumens
Efficiency:	N/A
Efficacy:	112.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

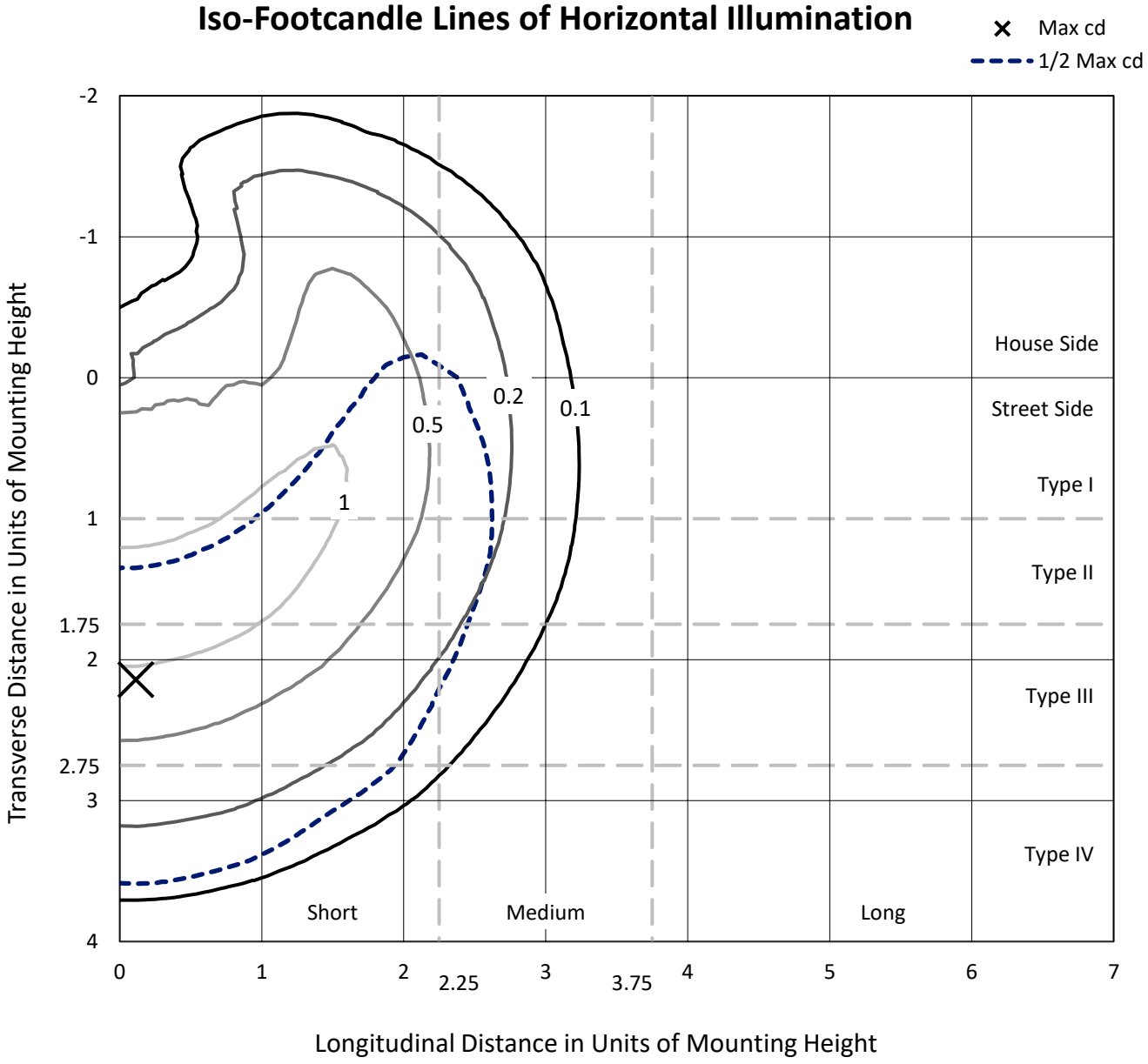


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Iso-Footcandle Lines of Horizontal Illumination



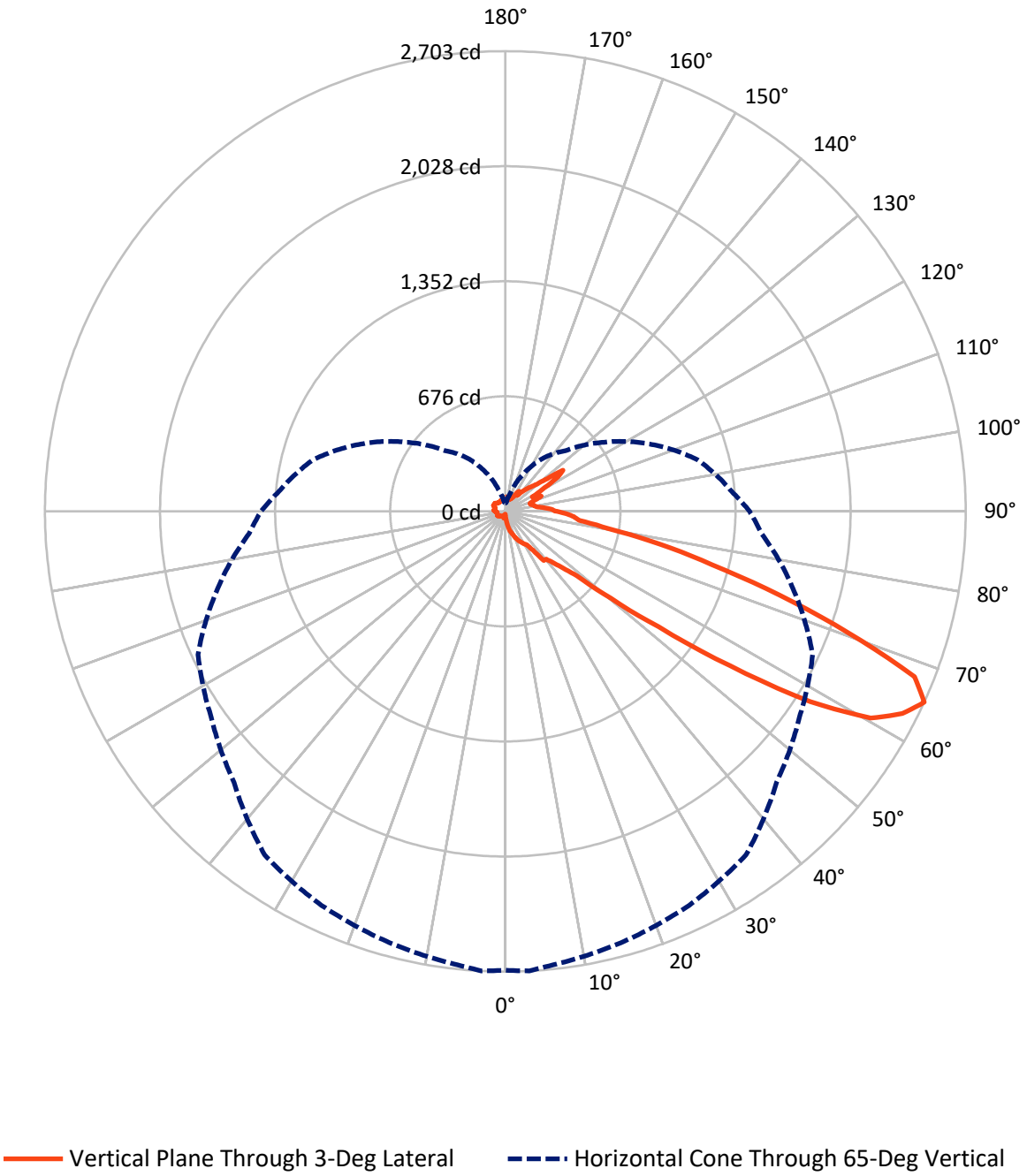
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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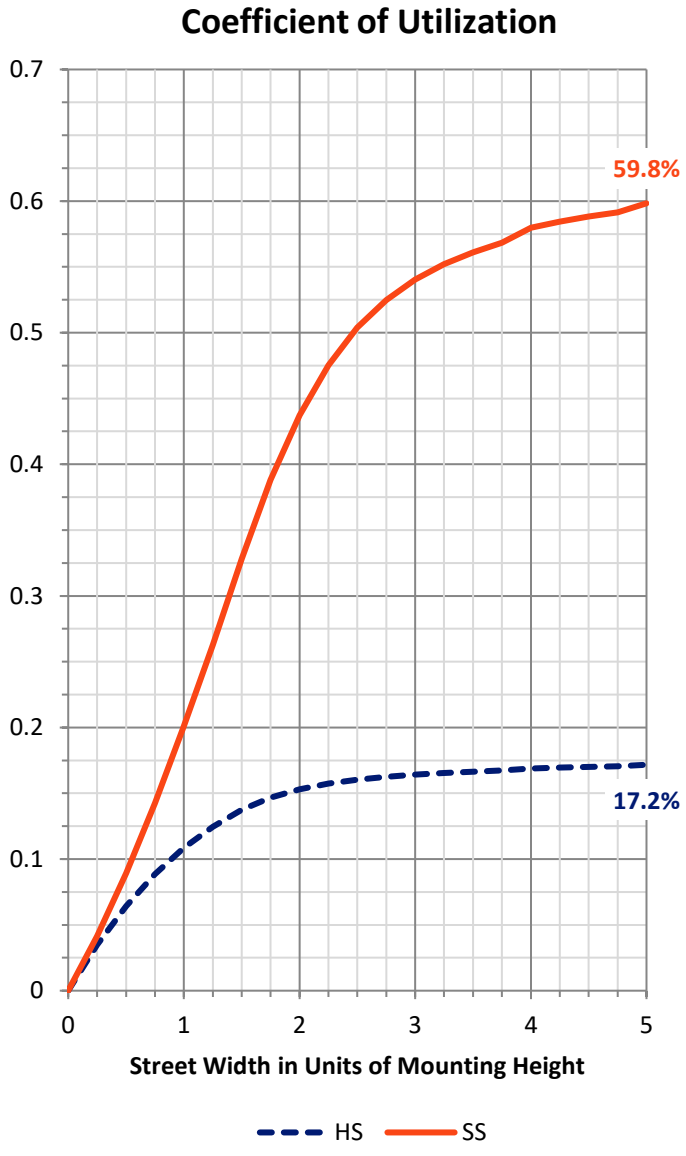
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.4	306.1	1092.5
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	2749.0	569.7	3318.6
	% Fixture	62.3	12.9	75.2
Total	Lumens	3535.3	875.8	4411.1
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	25.0	0.6
20°-30°	55.1	1.2
30°-40°	109.8	2.5
40°-50°	237.1	5.4
50°-60°	810.6	18.4
60°-70°	1317.3	29.9
70°-80°	708.8	16.1
80°-90°	267.1	6.1
90°-100°	168.5	3.8
100°-110°	119.8	2.7
110°-120°	132.2	3.0
120°-130°	201.9	4.6
130°-140°	121.1	2.7
140°-150°	66.9	1.5
150°-160°	37.2	0.8
160°-170°	20.6	0.5
170°-180°	7.6	0.2
0°-90°	3535.3	80.1
0°-180°	4411.1	100.0



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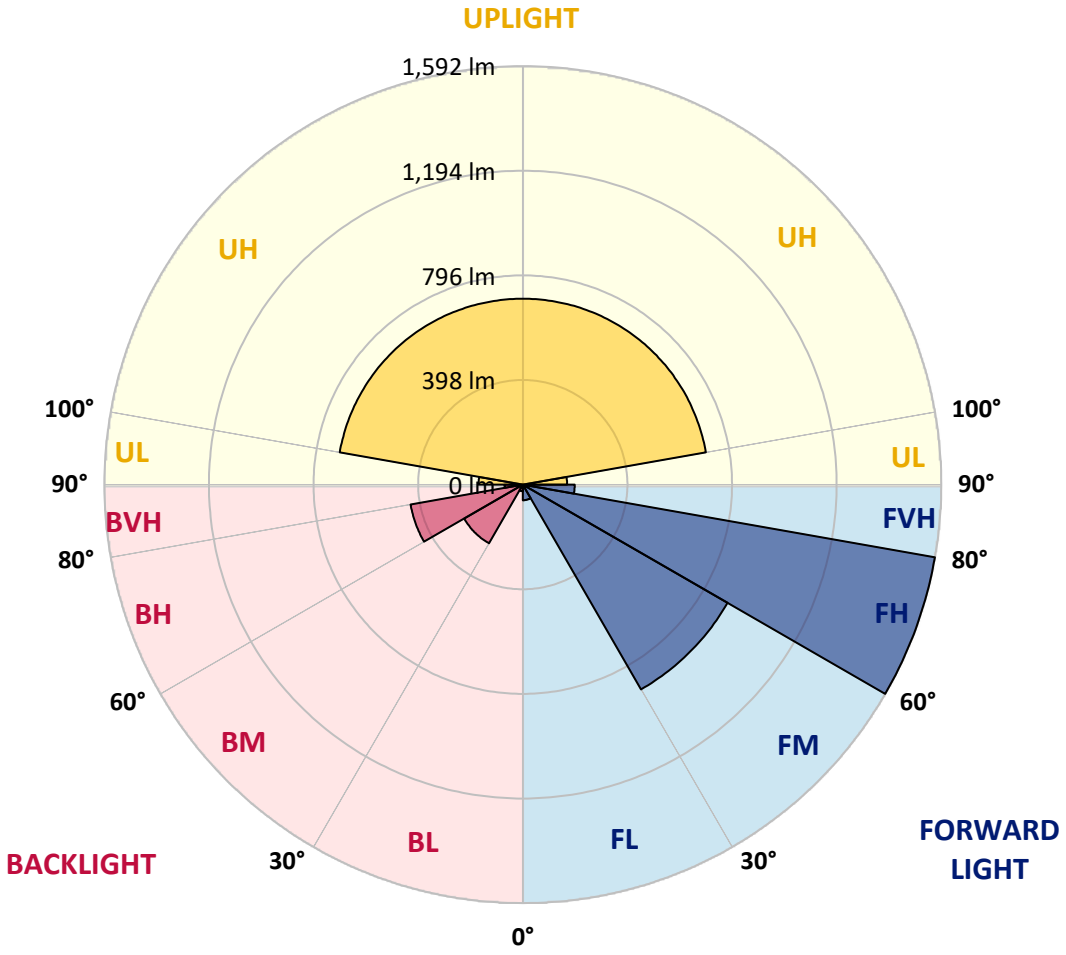
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	59.5	1.3			
FM	(30°-60°)	899.7	20.4			
FH	(60°-80°)	1592.4	36.1			G1/1800
FVH	(80°-90°)	197.4	4.5			G2/225
BL	(0°-30°)	25.1	0.6	B0/110		
BM	(30°-60°)	257.8	5.8	B1/1000		
BH	(60°-80°)	433.7	9.8	B1/500		G1/500
BVH	(80°-90°)	69.7	1.6			G1/100
UL	(90°-100°)	168.5	3.8		U3/500	
UH	(100°-180°)	707.3	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29.2	*29.2*	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	35.1	*35.6*	35.6	35.6	36.6	37.1	36.6	35.1	33.1	32.1	31.1
5°	50.9	*51.9*	51.4	51.4	50.4	50.4	48.9	47.9	46.9	43.5	40.0
7.5°	70.7	*69.7*	69.2	68.2	68.7	66.2	64.2	64.2	62.8	59.3	53.9
10°	91.4	*91.4*	89.9	89.4	88.4	87.5	84.0	82.0	82.0	76.1	69.7
12.5°	114.1	*113.6*	114.1	113.2	111.7	109.2	105.2	100.8	98.3	92.9	83.5
15°	129.0	*128.5*	128.5	128.0	127.0	124.5	121.6	117.1	110.7	105.2	96.4
17.5°	144.8	*143.8*	143.8	141.3	139.3	136.4	133.9	129.5	121.6	111.7	103.3
20°	162.1	*162.1*	162.1	158.6	154.7	150.7	147.2	143.3	137.4	122.5	110.7
22.5°	178.4	*178.9*	178.4	174.9	171.5	165.0	159.6	154.7	148.7	133.9	119.6
25°	194.2	*195.2*	194.7	194.7	190.2	181.8	174.4	167.0	163.1	148.2	128.5
27.5°	208.0	*208.5*	209.0	211.5	209.0	199.6	187.8	178.9	175.9	159.6	135.9
30°	221.4	*222.9*	222.9	225.3	224.8	214.5	200.1	190.2	184.3	168.5	143.3
32.5°	234.2	*235.2*	235.7	241.6	241.1	227.3	214.9	204.1	194.2	182.3	156.1
35°	280.7	*279.2*	286.6	291.0	287.6	275.2	260.4	240.1	226.3	212.5	184.3
37.5°	367.1	*366.1*	366.1	356.3	342.4	328.1	324.1	302.9	286.1	268.3	229.8
40°	369.6	*369.6*	371.1	382.0	388.9	370.6	353.3	332.5	329.1	310.8	263.9
42.5°	405.7	*409.6*	413.6	421.0	433.3	421.5	401.7	368.6	352.8	334.0	294.0
45°	466.9	*472.9*	470.9	473.9	470.9	460.5	459.0	440.8	417.0	381.0	327.1
47.5°	568.2	*564.8*	562.8	574.7	593.9	574.7	570.2	541.1	495.6	449.7	388.4
50°	817.3	*802.5*	817.8	815.3	811.8	794.1	780.7	751.6	677.4	602.8	514.4
52.5°	1150.8	*1126.6*	1140.4	1149.8	1140.0	1114.7	1074.7	1017.9	918.1	821.7	705.1
55°	1635.6	*1602.0*	1606.4	1618.3	1625.2	1567.9	1510.5	1385.0	1235.3	1086.6	960.1
57.5°	2170.7	*2110.4*	2149.9	2083.7	2056.6	1954.3	1905.8	1778.9	1602.9	1404.3	1200.2
60°	2472.1	*2465.7*	2458.3	2406.9	2378.2	2263.6	2149.9	2030.9	1873.2	1638.5	1399.9
62.5°	2603.1	*2616.9*	2606.0	2579.3	2553.6	2452.8	2255.2	2113.9	1985.9	1744.8	1506.6
65°	*2695.5*	*2703.4*	*2685.1*	*2623.3*	*2553.6*	*2463.7*	*2252.7*	*2108.4*	*1991.3*	*1748.2*	*1511.0*
67.5°	2589.7	*2591.2*	2569.0	2488.9	2347.6	2268.5	2064.0	1938.0	1823.3	1615.8	1393.9
70°	2133.1	*2137.6*	2123.8	2052.6	1934.0	1865.3	1668.2	1538.7	1452.2	1308.9	1145.4
72.5°	1662.7	*1682.0*	1662.2	1634.1	1521.4	1470.5	1338.1	1233.3	1153.8	1018.9	887.0
75°	1250.1	*1254.6*	1255.1	1223.5	1164.2	1152.8	1061.9	992.7	923.5	812.8	716.0
77.5°	906.7	*926.5*	919.6	914.1	836.6	841.0	804.9	763.9	720.4	646.8	577.6
80°	601.8	*612.2*	599.9	602.8	592.5	590.0	556.4	528.7	502.0	467.9	440.8
82.5°	438.8	*436.8*	435.8	430.4	422.5	424.0	407.2	373.1	340.9	334.0	308.8
85°	405.7	*404.2*	402.7	392.8	376.0	365.7	356.3	342.4	322.7	291.5	258.9
87.5°	354.8	*355.3*	351.8	341.4	330.6	327.6	320.2	311.3	301.4	278.2	249.5
90°	292.0	*290.5*	291.0	285.1	287.1	286.1	274.7	263.9	259.9	240.1	223.3
92.5°	269.8	*268.3*	268.8	264.4	257.4	256.0	243.6	230.3	224.3	212.0	199.1
95°	225.3	*225.3*	223.3	221.4	217.9	213.0	206.5	197.7	193.2	183.3	170.5
97.5°	189.3	*187.3*	188.8	185.3	182.3	180.4	175.4	166.5	162.1	154.7	144.8
100°	175.9	*175.9*	175.4	173.9	166.5	162.6	157.1	148.7	145.3	138.8	131.4
102.5°	168.5	*168.0*	167.5	166.0	159.1	152.2	145.3	140.3	136.4	130.9	123.0
105°	154.2	*154.2*	155.2	154.7	149.7	145.3	137.9	133.4	129.5	124.0	116.6
107.5°	152.7	*152.2*	152.2	146.3	139.8	137.4	131.9	128.0	124.5	119.1	110.7
110°	174.9	*175.9*	177.4	167.5	152.2	145.8	137.9	133.4	129.5	122.5	113.6

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	229.3	*229.3*	228.3	222.9	196.2	178.4	174.4	163.1	156.6	146.3	133.9
115°	206.1	*206.5*	206.1	207.5	205.6	183.3	187.3	168.5	179.4	155.2	146.8
117.5°	179.9	*179.4*	177.4	177.9	179.9	194.2	163.1	158.6	163.1	141.3	133.9
120°	251.0	*246.6*	251.0	232.7	229.8	232.2	214.5	211.0	192.2	166.0	146.3
122.5°	369.6	*362.7*	372.6	366.1	371.1	354.8	337.5	323.2	302.4	258.4	218.9
125°	417.5	*416.1*	413.6	404.7	396.8	389.9	392.8	398.3	386.9	351.3	305.4
127.5°	307.3	*311.3*	309.8	327.6	344.9	340.9	330.6	335.5	341.4	339.5	312.3
130°	245.1	*248.5*	250.5	267.8	282.6	282.6	265.8	261.4	266.3	276.7	266.3
132.5°	214.9	*215.9*	216.9	222.9	235.2	241.1	230.8	223.8	225.8	231.3	222.4
135°	193.7	*193.2*	191.7	187.8	188.8	194.7	199.1	198.1	196.7	196.7	191.7
137.5°	168.0	*167.5*	167.5	161.6	159.1	164.1	170.5	176.4	172.5	167.0	161.1
140°	139.8	*139.3*	139.8	143.3	144.3	144.8	148.2	148.2	148.2	147.7	145.3
142.5°	116.1	*116.6*	117.6	126.5	130.9	130.9	126.5	122.5	122.0	125.0	125.5
145°	142.8	*142.8*	143.3	142.8	139.8	136.9	133.9	133.9	130.9	124.0	120.6
147.5°	127.5	*129.5*	128.0	129.5	130.4	130.9	130.4	131.9	132.4	128.5	123.0
150°	100.3	*99.8*	98.8	100.3	102.8	105.7	106.7	107.7	108.2	108.2	108.2
152.5°	87.0	*87.5*	87.0	88.4	89.9	90.4	91.9	91.9	92.4	91.9	90.9
155°	84.5	*84.5*	84.5	84.5	85.0	86.0	88.0	88.9	88.0	86.5	84.0
157.5°	78.6	*78.6*	78.6	79.1	80.0	81.0	82.5	83.5	83.5	82.5	80.5
160°	75.1	*75.1*	75.1	75.1	76.1	77.1	78.1	79.1	79.1	78.6	77.1
162.5°	71.2	*71.2*	71.2	71.6	72.6	73.6	74.6	75.6	75.1	75.1	74.1
165°	70.7	*70.7*	70.7	71.2	72.1	73.6	74.1	74.1	74.6	74.6	74.6
167.5°	72.6	*72.6*	73.1	73.1	74.1	74.6	75.6	76.1	76.6	76.1	76.1
170°	75.6	*75.6*	75.6	76.1	76.6	76.6	77.1	77.1	77.6	77.6	77.6
172.5°	79.6	*79.6*	79.6	79.6	79.1	79.1	79.1	79.1	79.6	79.1	79.6
175°	84.0	*84.0*	84.0	83.5	83.0	83.0	82.5	82.5	82.0	81.5	81.5
177.5°	84.5	*84.5*	84.5	84.5	84.0	83.5	83.5	83.0	82.5	82.5	82.5
180°	82.5	*82.5*	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
2.5°	30.1	29.2	26.7	24.7	23.2	21.2	19.8	18.3	17.3	16.8	16.3
5°	39.5	37.6	34.6	31.6	29.2	25.7	23.7	20.3	17.8	16.8	16.3
7.5°	51.9	50.4	48.9	48.4	47.4	43.0	36.6	31.6	30.6	29.6	30.6
10°	66.2	63.2	58.8	61.3	61.3	52.9	44.0	39.0	38.5	40.5	41.0
12.5°	79.6	75.6	70.2	69.7	64.2	52.9	43.5	38.5	38.0	38.5	39.0
15°	91.9	87.5	81.5	76.6	68.2	56.3	45.5	39.0	37.6	39.0	39.0
17.5°	98.8	94.4	86.0	76.6	66.7	55.8	45.0	38.0	34.6	32.6	32.6
20°	107.2	103.8	92.4	80.5	67.2	55.3	44.5	37.1	33.1	31.1	30.6
22.5°	114.6	110.7	98.3	85.5	70.2	55.3	43.0	36.6	33.1	31.1	30.6
25°	123.5	117.6	105.2	90.9	72.6	55.3	43.0	37.1	33.6	31.6	31.1
27.5°	129.5	122.5	110.7	94.9	75.6	56.3	44.5	37.6	33.6	31.6	31.6
30°	135.4	129.0	115.1	100.3	79.1	58.8	46.9	39.5	35.1	32.6	32.6
32.5°	147.2	138.8	122.0	104.8	82.0	60.8	49.4	41.5	36.6	34.1	34.1
35°	173.9	162.1	141.8	117.6	86.0	62.8	51.9	44.0	37.6	34.6	34.6
37.5°	214.5	199.6	174.9	141.8	95.9	65.7	53.9	45.0	38.5	36.1	35.6
40°	241.1	222.9	193.2	161.1	110.2	70.7	56.3	46.4	39.5	36.6	36.1
42.5°	273.3	251.0	211.5	167.0	117.6	81.0	61.3	48.9	41.0	37.1	36.6
45°	302.4	283.6	246.6	195.2	138.8	96.4	70.2	53.4	43.5	38.5	38.0
47.5°	361.7	332.5	283.1	230.3	165.5	119.6	85.5	60.3	47.4	40.5	39.5
50°	477.3	447.2	387.4	305.4	214.0	152.2	110.2	73.1	52.4	42.5	41.0
52.5°	648.3	593.0	526.2	415.6	303.4	219.9	156.1	103.3	62.3	44.5	42.0
55°	877.1	845.5	727.4	586.5	432.4	329.1	240.1	160.6	92.9	46.9	42.5
57.5°	1139.5	1076.7	969.0	793.6	578.1	419.0	324.6	239.2	136.9	54.8	45.0
60°	1308.4	1243.2	1119.7	942.3	703.6	499.6	370.1	266.3	155.2	56.3	46.9
62.5°	1417.6	1326.2	1169.6	962.1	740.2	532.7	390.9	253.0	132.4	54.8	48.4
65°	*1434.4*	*1335.1*	*1169.6*	*934.9*	*707.1*	*505.5*	*378.0*	*233.7*	*104.3*	*52.4*	*50.4*
67.5°	1335.1	1227.4	1090.0	857.3	634.5	433.3	324.6	190.7	79.1	50.9	49.9
70°	1081.1	1013.5	888.4	698.7	506.5	354.8	258.4	146.3	64.2	49.4	48.9
72.5°	826.2	777.3	689.8	544.5	390.4	273.7	197.2	115.1	57.8	48.4	47.9
75°	657.7	613.2	542.1	419.5	298.0	211.0	147.2	88.4	52.9	48.4	47.4
77.5°	542.6	503.5	439.3	332.5	217.4	157.6	111.7	71.6	51.9	48.4	47.9
80°	417.5	389.4	341.4	241.6	155.6	118.1	88.9	63.7	51.9	49.4	48.9
82.5°	296.0	285.1	249.0	188.3	130.9	102.8	82.0	62.8	52.9	50.4	49.9
85°	246.1	233.2	207.5	164.1	122.0	99.3	81.0	64.2	55.3	53.4	52.9
87.5°	237.2	228.8	203.6	158.6	117.1	94.9	77.6	62.8	55.3	54.4	54.8
90°	214.5	205.1	185.8	147.7	112.2	94.4	79.1	65.2	57.3	56.3	55.8
92.5°	194.7	189.3	172.5	142.8	115.6	97.8	83.5	71.2	64.7	62.8	62.8
95°	166.5	161.1	151.7	130.9	110.2	95.9	83.5	72.6	67.2	66.2	65.7
97.5°	141.8	138.4	130.4	114.1	97.8	86.0	75.1	66.7	62.3	60.8	60.8
100°	129.5	126.5	120.1	109.2	96.8	87.0	78.1	70.7	66.7	65.7	65.7
102.5°	120.6	118.1	112.2	104.3	93.4	85.5	78.1	71.6	67.2	66.2	66.7
105°	113.2	110.7	104.8	96.8	88.0	79.6	74.1	69.2	64.2	62.8	62.8
107.5°	107.7	105.2	100.3	92.4	85.0	77.6	71.6	67.7	63.7	62.8	62.8
110°	110.2	106.7	99.3	90.9	84.5	78.1	73.1	69.2	66.2	64.7	64.7

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

Scaled Data Report

REPORT NUMBER: P1045819
CATALOG NUMBER: FFX-CLB-40-750-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	129.0	123.5	111.2	99.3	90.9	83.5	78.1	72.6	70.2	68.2	68.2
115°	141.3	135.9	123.5	109.2	96.8	86.5	79.1	74.6	71.6	73.6	72.6
117.5°	129.0	125.0	115.6	105.2	95.4	86.5	80.0	77.1	75.1	77.6	78.6
120°	141.8	134.4	127.0	115.1	96.8	84.5	80.0	79.1	79.1	77.1	77.1
122.5°	202.6	190.2	162.6	142.3	117.1	103.3	94.9	87.0	79.1	76.1	75.6
125°	283.6	260.4	225.3	189.7	155.2	126.0	101.8	87.0	79.6	75.1	74.1
127.5°	298.5	278.2	246.1	203.1	156.1	123.0	101.3	89.9	81.5	76.6	76.1
130°	252.0	242.1	213.5	176.4	140.3	114.6	100.3	89.9	82.0	77.6	76.6
132.5°	214.0	207.0	180.4	150.7	125.0	106.2	93.4	82.0	74.6	70.7	69.7
135°	183.8	179.4	156.1	134.9	115.6	100.3	87.0	76.1	70.2	67.7	67.2
137.5°	157.6	153.2	137.4	122.5	107.7	94.4	83.5	74.1	68.7	67.2	66.7
140°	141.3	137.4	127.5	111.7	97.3	83.5	75.6	69.7	66.7	65.7	65.2
142.5°	123.0	118.6	107.7	96.4	86.5	75.6	70.2	67.7	66.2	65.2	64.7
145°	116.6	113.6	101.3	90.9	81.5	76.1	73.1	69.7	66.7	64.7	64.2
147.5°	118.1	114.6	103.8	93.9	85.5	79.6	74.6	69.7	65.7	63.7	63.2
150°	105.7	104.8	98.3	90.4	82.5	76.1	71.2	67.2	64.7	64.2	64.2
152.5°	88.4	88.0	85.0	80.5	75.1	70.2	66.7	64.7	64.7	65.7	66.2
155°	83.0	81.5	79.6	76.6	72.1	68.7	66.2	65.2	65.7	66.7	66.7
157.5°	80.0	78.6	76.6	74.1	71.6	68.7	66.7	66.2	67.2	68.2	68.2
160°	76.1	75.1	73.6	71.2	69.2	67.7	66.7	66.7	67.2	67.7	67.7
162.5°	73.6	72.6	71.2	69.7	68.7	68.2	67.7	67.2	67.7	68.2	68.2
165°	73.6	73.1	71.2	69.7	69.2	69.2	69.2	69.2	69.2	68.7	68.7
167.5°	75.6	75.1	73.6	72.6	72.1	72.6	72.6	72.1	71.6	70.7	70.7
170°	77.6	77.1	76.6	76.1	75.6	76.1	76.1	76.1	75.6	75.6	75.1
172.5°	79.6	79.1	78.6	78.1	78.1	78.1	78.6	79.1	79.1	79.1	79.1
175°	81.5	81.5	80.5	80.0	80.0	80.0	80.5	80.5	81.0	81.0	81.0
177.5°	82.5	82.5	82.5	82.5	83.0	82.5	82.5	82.0	82.0	82.0	82.0
180°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5

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

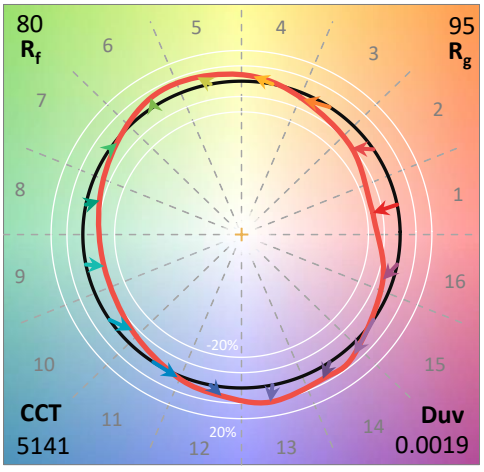
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Version: v7.04

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

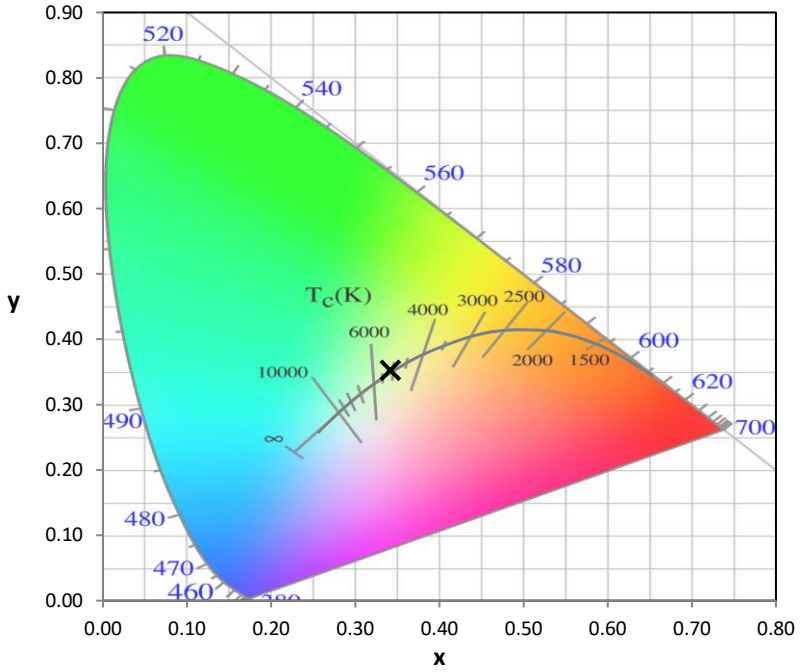
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

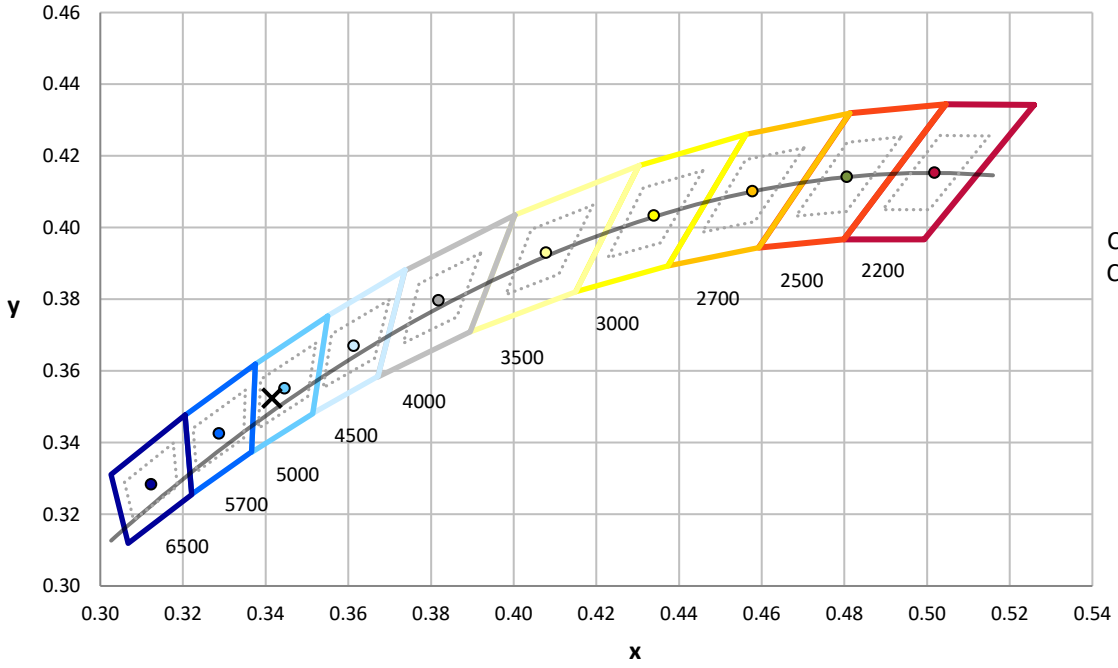
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

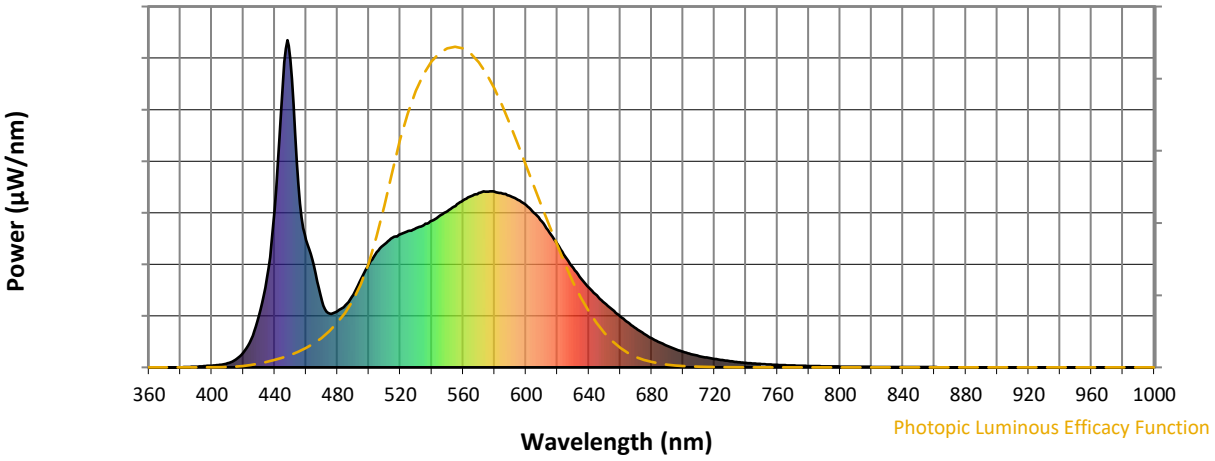


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

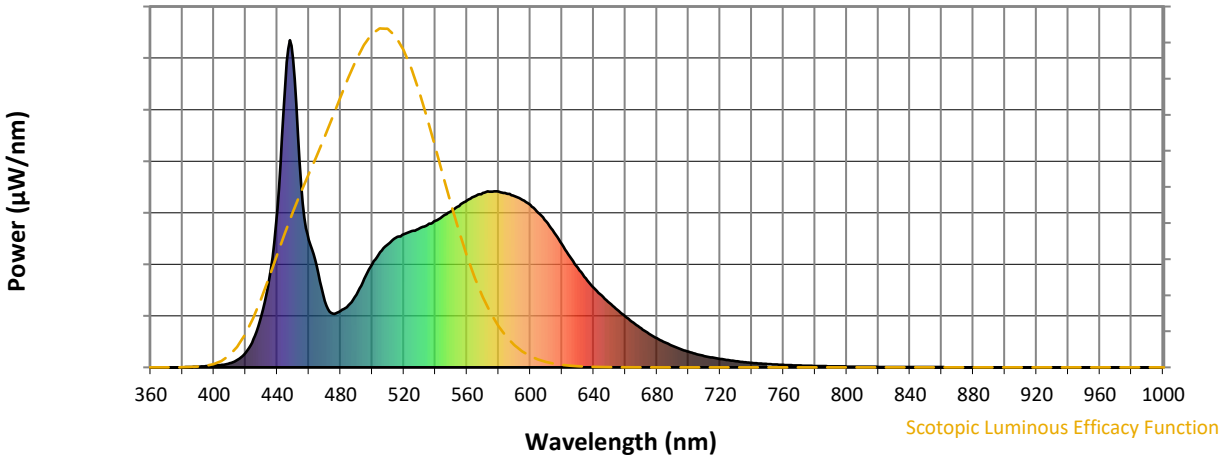


Photopic Lumens: NR

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

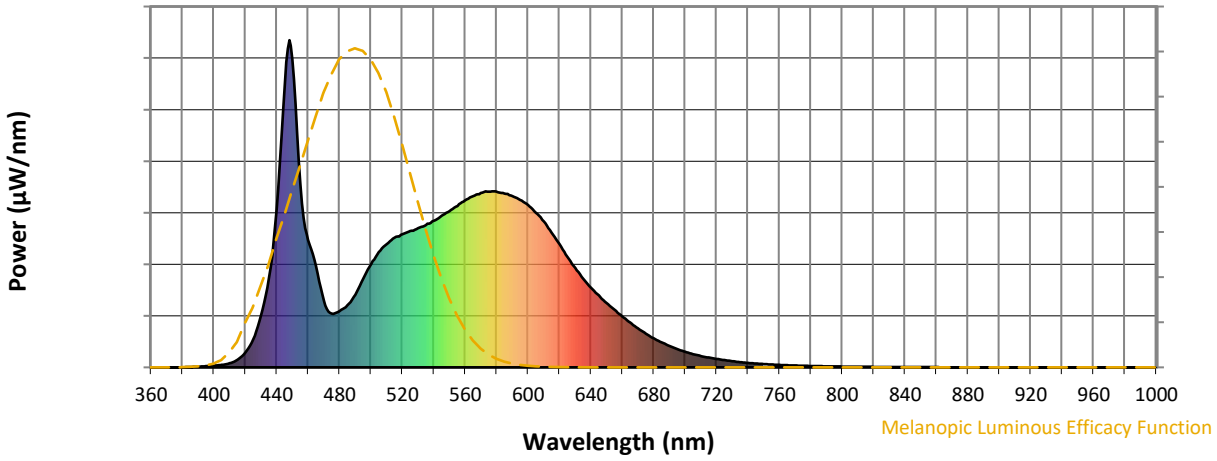


Scotopic Lumens: NR **S/P: 1.92**

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			

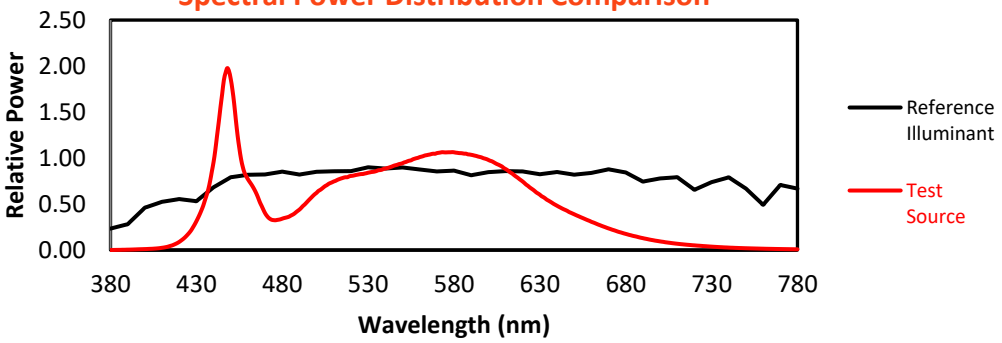
REPORT NUMBER: SP1-2501-332-10

TM-30-18

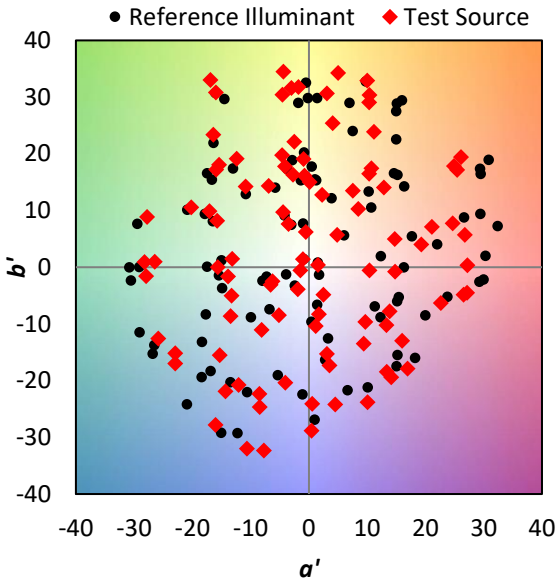
Summary

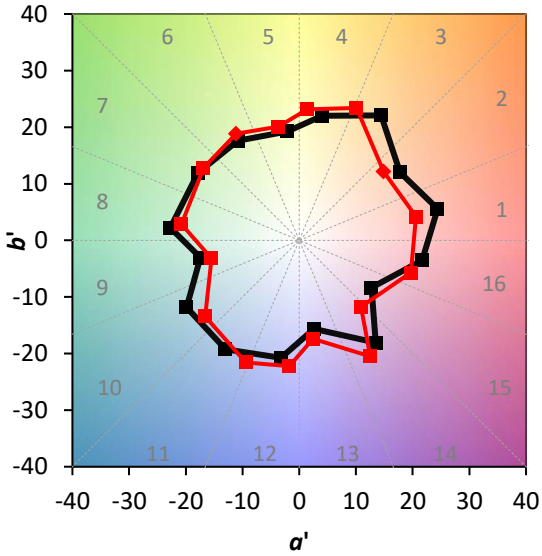
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

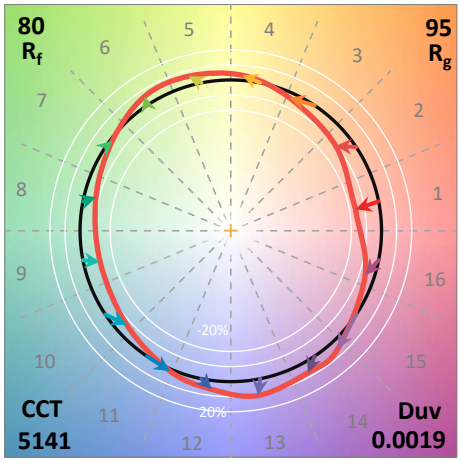
Spectral Power Distribution Comparison

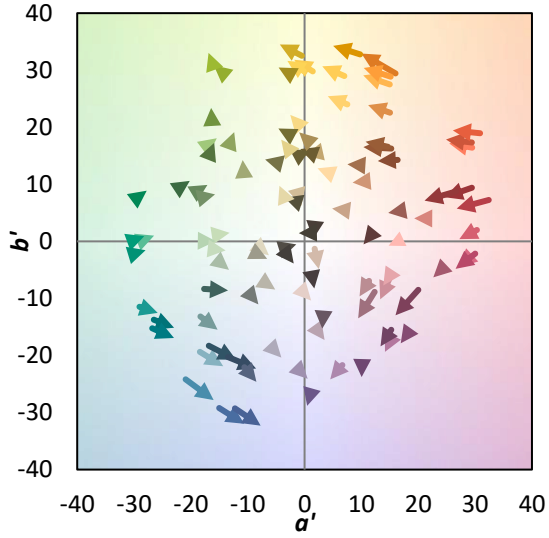


Color Vector Graphics







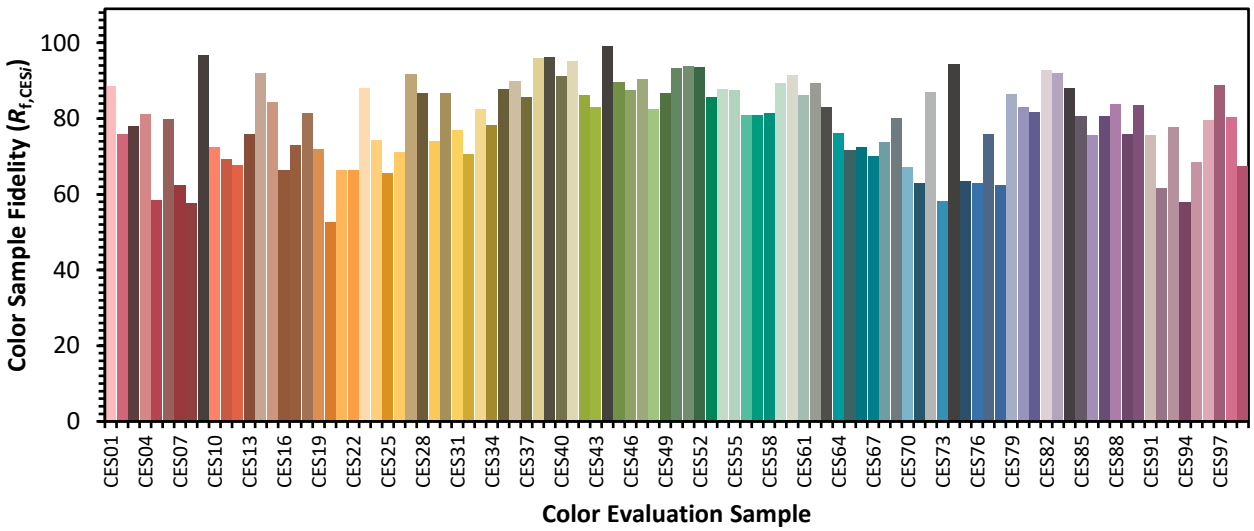


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

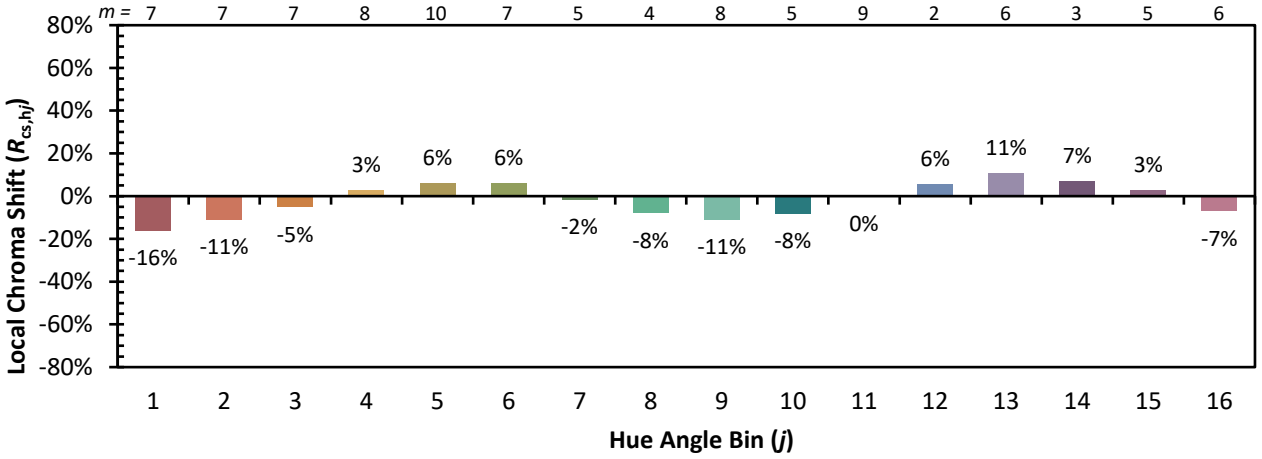
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57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

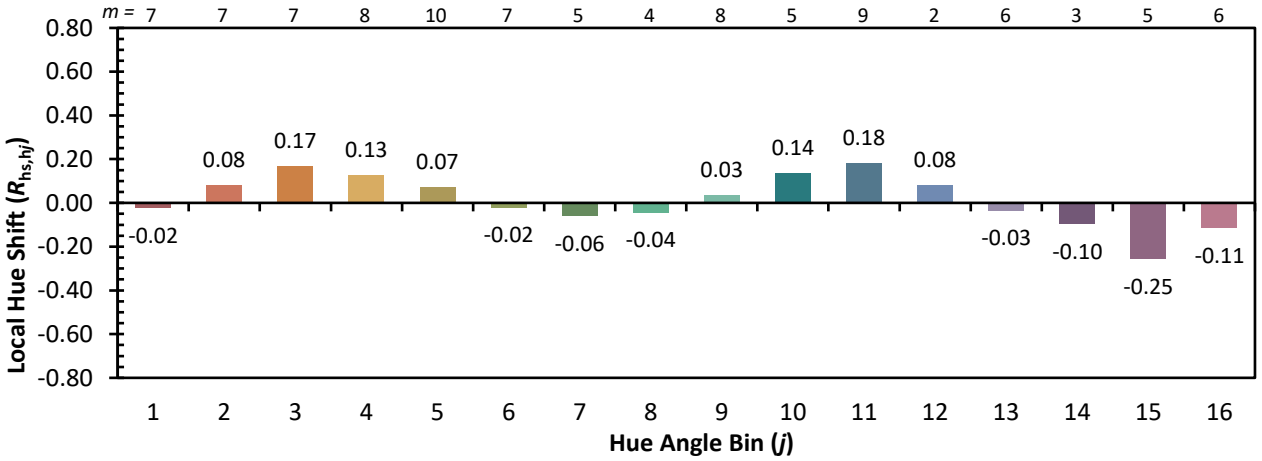


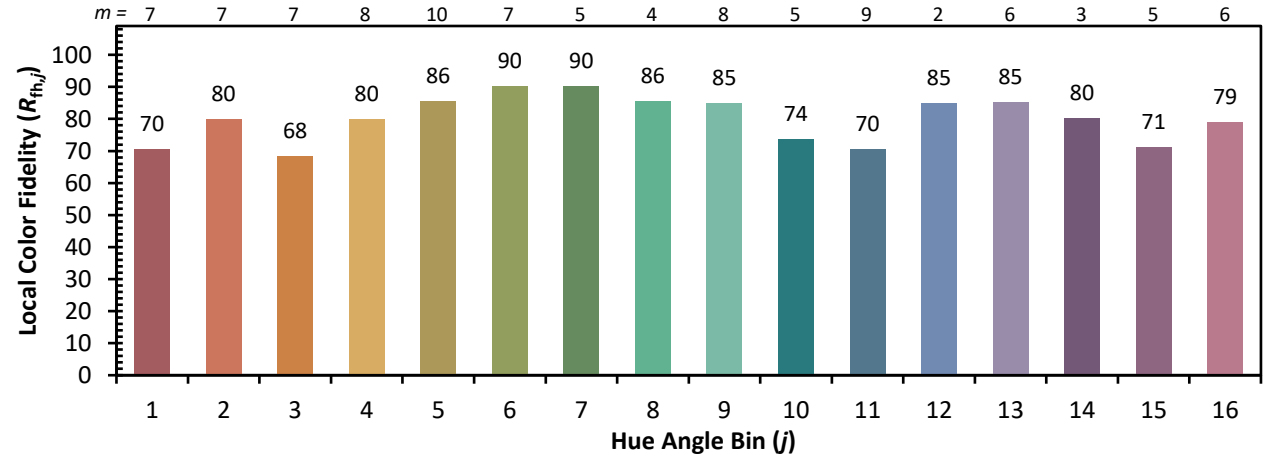
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Color Rendition by Hue-Angle Bin



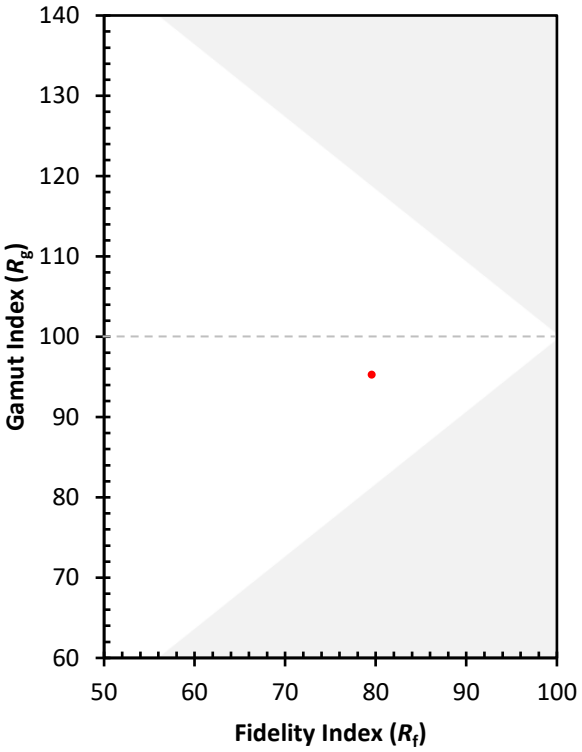


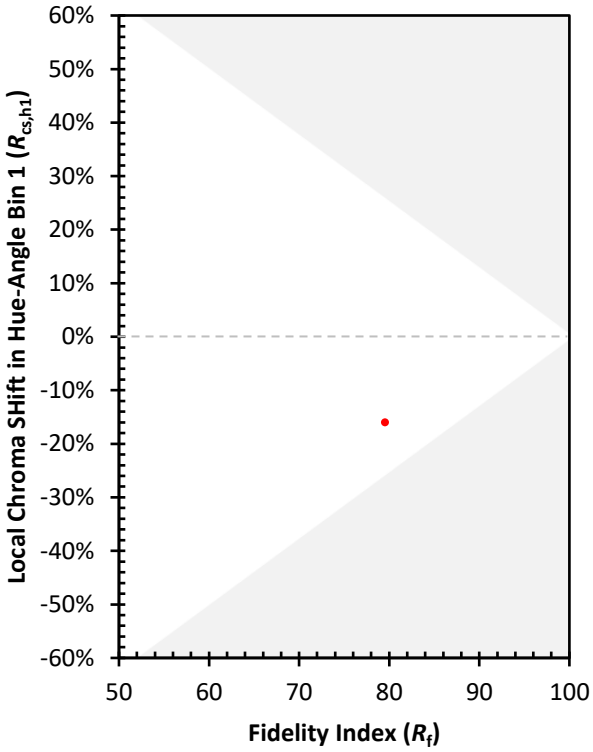


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Measure Comparisons





(END OF REPORT)