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: P1046628

Luminaire Tested: **FFX-CLB-50-750-U-FR-T3-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:	P1046628
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-750-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7432.2 lumens
Efficiency:	N/A
Efficacy:	146.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

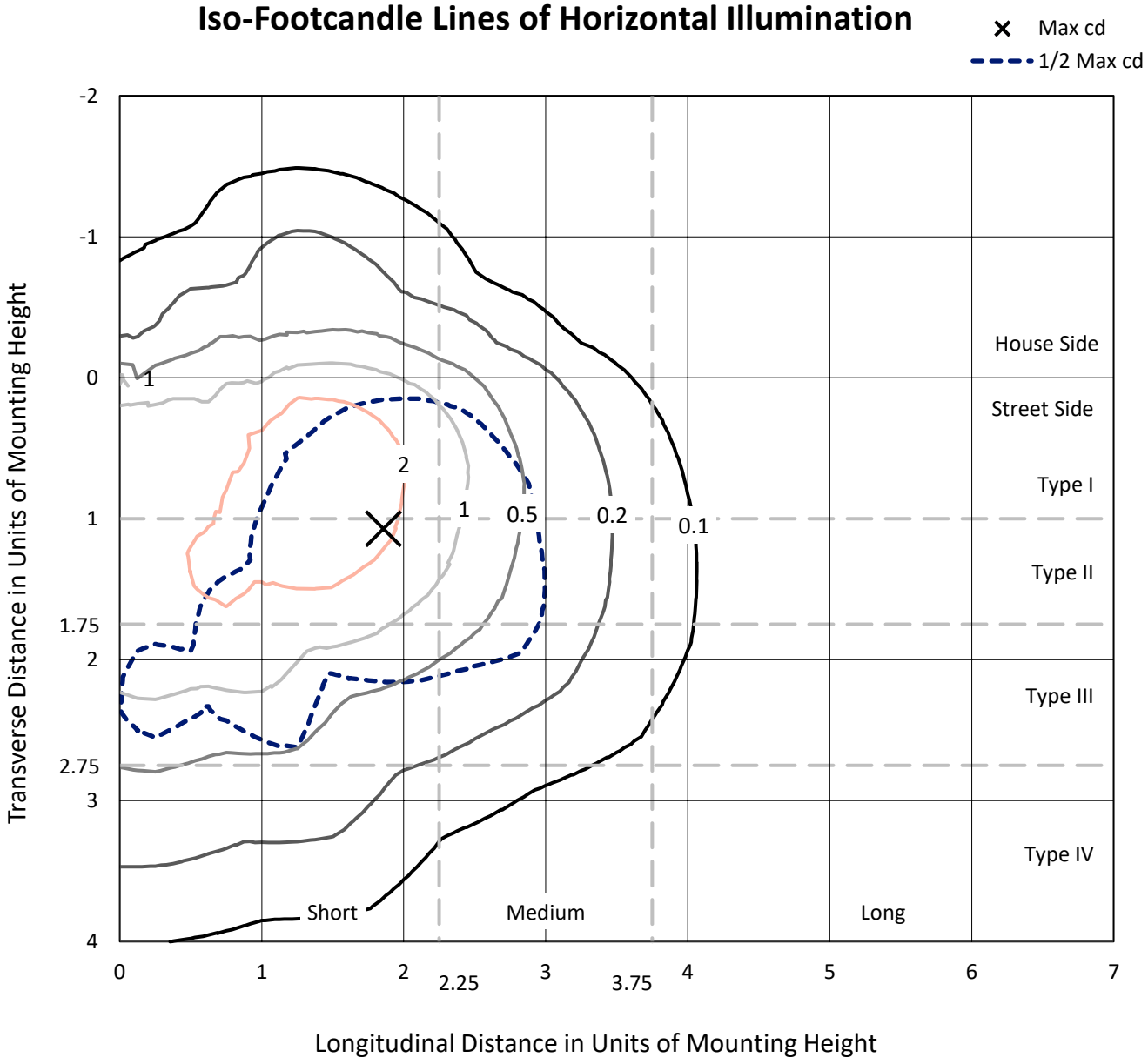


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Iso-Footcandle Lines of Horizontal Illumination



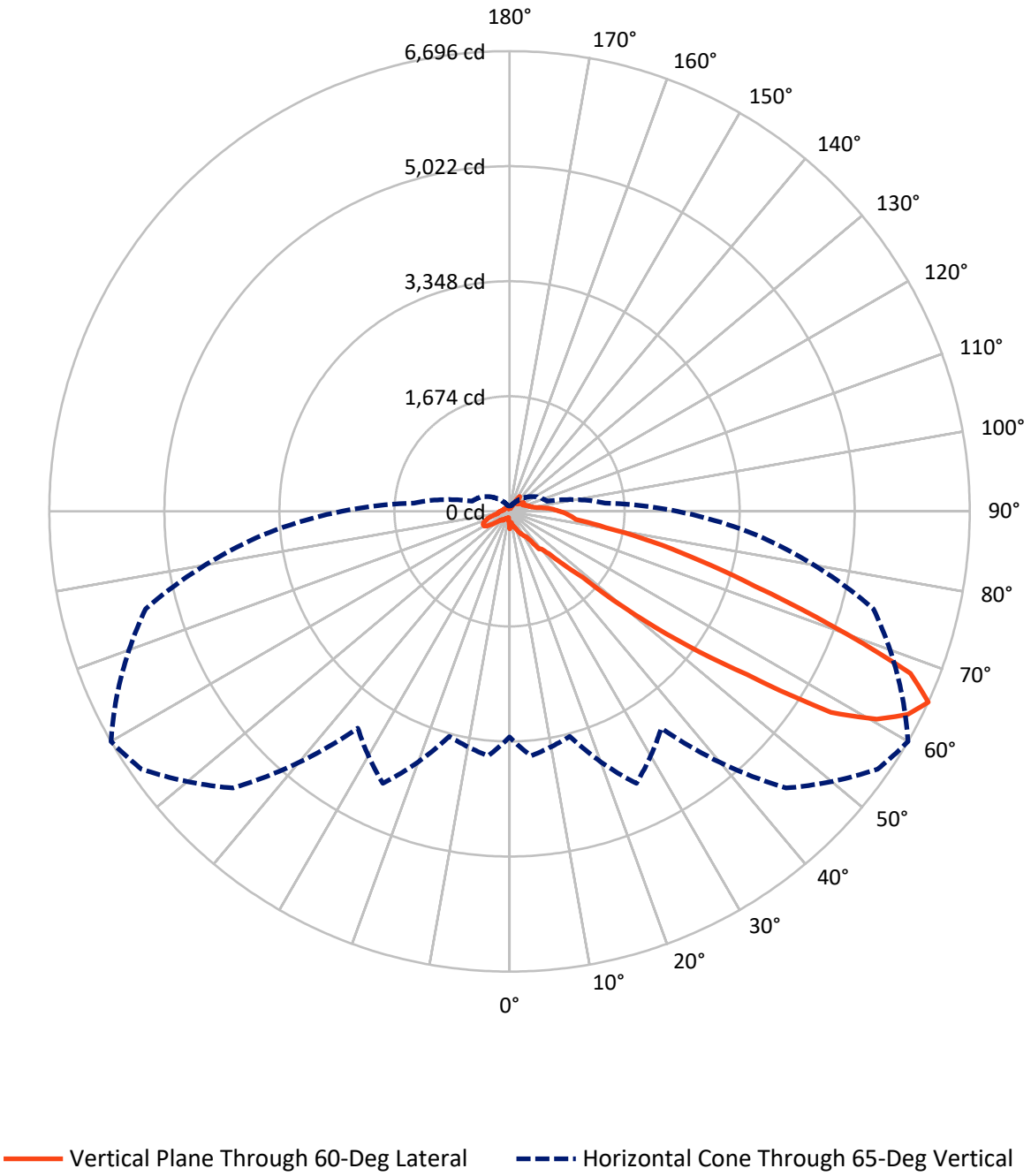
Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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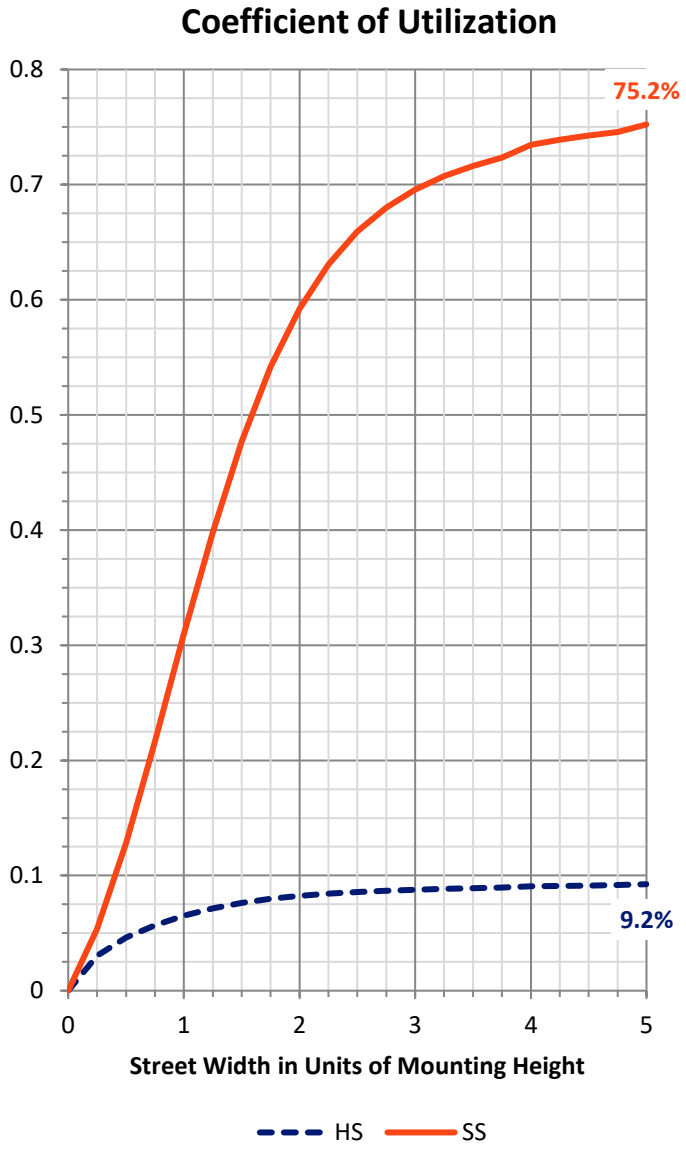
REPORT NUMBER: P1046628
CATALOG NUMBER: FFX-CLB-50-750-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	720.6	232.6	953.2
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	5791.6	687.5	6479.0
	% Fixture	77.9	9.2	87.2
Total	Lumens	6512.2	920.1	7432.2
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.2
10°-20°	47.6	0.6
20°-30°	101.7	1.4
30°-40°	208.7	2.8
40°-50°	489.1	6.6
50°-60°	1529.9	20.6
60°-70°	2395.5	32.2
70°-80°	1267.2	17.1
80°-90°	458.8	6.2
90°-100°	276.7	3.7
100°-110°	173.3	2.3
110°-120°	140.1	1.9
120°-130°	116.9	1.6
130°-140°	85.1	1.1
140°-150°	78.2	1.1
150°-160°	32.6	0.4
160°-170°	13.0	0.2
170°-180°	4.2	0.1
0°-90°	6512.2	87.6
0°-180°	7432.2	100.0



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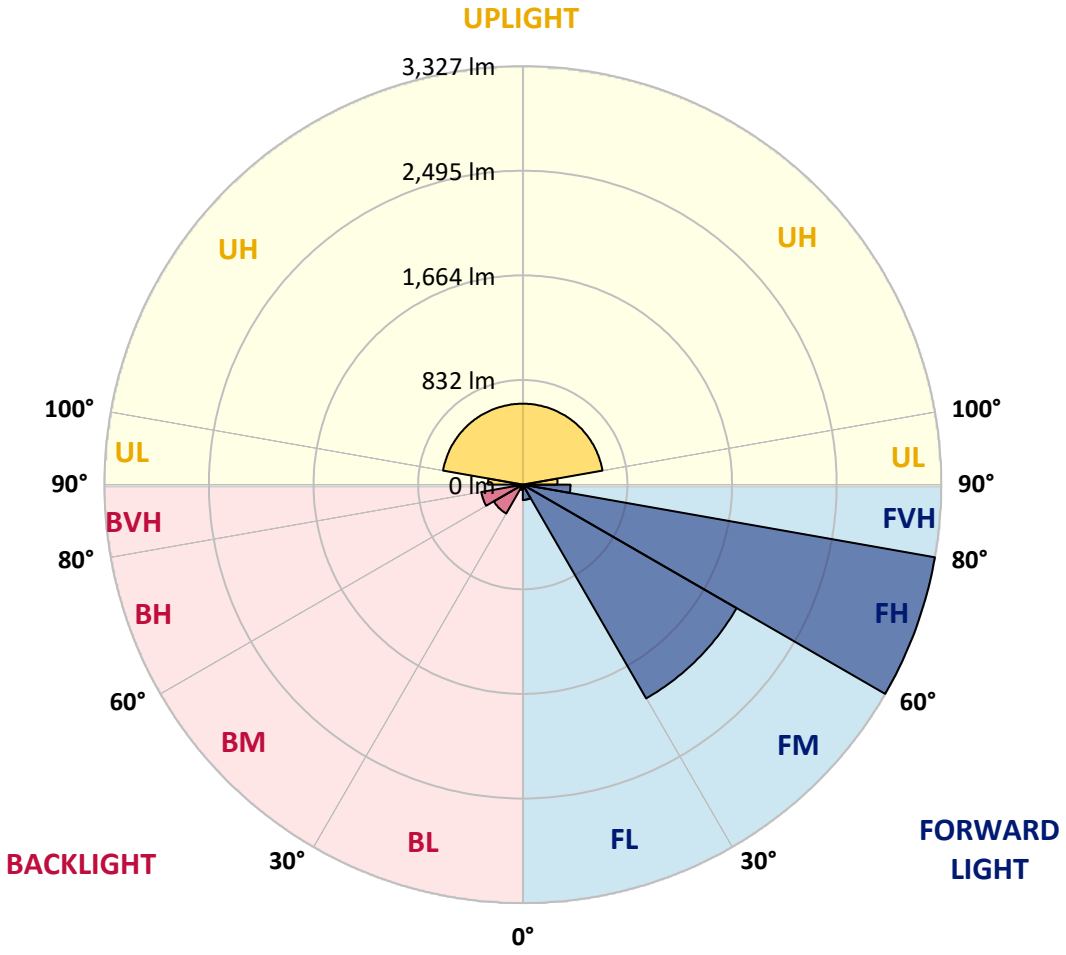
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	122.5	1.6			
FM	(30°-60°)	1962.7	26.4			
FH	(60°-80°)	3327.3	44.8			G2/5000
FVH	(80°-90°)	379.1	5.1			G3/500
BL	(0°-30°)	40.5	0.5	B0/110		
BM	(30°-60°)	265.0	3.6	B1/1000		
BH	(60°-80°)	335.4	4.5	B1/500		G1/500
BVH	(80°-90°)	79.7	1.1			G1/100
UL	(90°-100°)	276.7	3.7		U3/500	
UH	(100°-180°)	643.4	8.7		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4
2.5°	139.2	144.6	176.1	208.7	218.0	197.9	171.2	174.5	189.2	259.3	290.3
5°	163.1	164.7	162.0	165.8	188.6	217.4	200.6	181.0	154.9	112.0	110.9
7.5°	187.5	187.5	186.4	172.9	157.1	152.2	166.9	169.6	166.9	139.2	120.1
10°	204.4	204.4	203.8	204.9	206.0	200.6	176.7	167.4	157.6	145.7	140.2
12.5°	247.9	249.0	256.0	252.2	238.1	223.4	226.1	223.4	208.7	183.2	162.0
15°	303.3	305.5	306.6	292.4	269.6	242.4	225.0	220.7	218.0	203.3	182.1
17.5°	332.1	331.0	318.0	303.3	288.6	269.1	252.8	246.2	236.5	218.0	195.1
20°	328.9	328.9	315.8	312.6	313.6	301.7	281.0	272.9	262.0	244.6	213.1
22.5°	338.1	338.6	330.5	333.2	345.2	333.2	313.1	307.7	297.3	272.3	240.3
25°	373.4	373.4	364.2	360.4	370.7	366.4	355.0	348.4	333.8	303.3	246.8
27.5°	405.5	403.3	394.6	395.7	385.9	383.8	381.0	378.3	365.3	316.9	250.0
30°	430.5	430.5	422.9	427.8	407.1	410.4	400.6	408.2	391.4	335.4	262.5
32.5°	453.3	456.6	453.9	460.4	435.9	450.1	433.2	441.4	431.1	368.5	297.9
35°	506.1	509.9	522.4	538.7	508.8	523.5	496.8	508.2	497.9	443.6	365.8
37.5°	715.3	709.4	682.2	655.6	626.7	687.1	680.6	691.4	675.1	587.6	462.0
40°	719.7	716.4	711.0	694.1	639.8	699.6	702.3	721.9	770.8	630.6	499.5
42.5°	738.2	742.0	806.7	814.8	774.1	867.0	841.5	842.5	1010.0	746.9	644.7
45°	854.0	854.0	874.6	884.9	873.0	1139.9	1136.1	1103.5	1314.4	931.7	758.3
47.5°	979.0	982.8	1020.8	1123.0	1189.9	1442.7	1517.7	1439.4	1716.1	1222.5	1044.8
50°	1344.8	1352.4	1470.9	1560.6	1686.2	2111.8	2480.9	2361.8	2796.2	1865.0	1574.2
52.5°	1609.5	1704.1	1769.3	2106.9	2155.8	2809.8	3285.9	3245.2	3536.5	2581.5	1910.7
55°	1915.6	2062.9	2106.4	2629.8	2717.3	3625.7	4119.8	4192.1	4210.0	3337.0	2246.1
57.5°	2419.5	2647.8	2655.9	3209.3	3224.5	4570.4	5357.0	5516.2	5334.7	4216.5	2775.0
60°	2834.8	3102.2	3012.5	3765.9	3614.8	5334.7	5958.7	6139.2	5802.2	4968.3	3144.6
62.5°	3091.9	3350.1	3232.1	4157.3	3849.6	5662.5	6318.0	6503.4	6132.7	5367.8	3428.9
65°	3283.8	3570.2	3388.7	4366.0	3849.1	5691.8	6539.8	6696.3	6299.5	5482.5	3512.6
67.5°	3287.6	3544.7	3318.0	4291.6	3593.1	5227.1	6193.5	6292.5	5852.2	5075.4	3263.6
70°	2873.9	3058.7	2807.0	3621.9	2898.4	3967.0	4836.8	4954.2	4511.2	3901.8	2528.7
72.5°	2404.8	2477.1	2227.6	2896.7	2270.0	3002.2	3697.4	3741.5	3507.2	2922.8	1954.7
75°	1888.4	1860.7	1731.3	2159.6	1725.9	2127.0	2903.8	2861.4	2732.6	2150.9	1491.6
77.5°	1260.0	1208.4	1214.9	1481.8	1205.7	1407.3	2114.5	2116.2	2071.0	1594.9	1063.8
80°	768.6	770.3	749.1	939.8	795.8	935.5	1457.3	1409.5	1410.6	1051.8	744.7
82.5°	601.2	611.0	584.3	677.3	626.7	744.2	952.3	979.0	950.2	772.4	548.5
85°	590.3	599.0	571.3	628.9	595.8	711.0	895.8	893.6	878.4	716.4	518.6
87.5°	540.9	551.2	530.5	570.8	545.2	658.3	824.6	813.7	799.1	674.0	494.7
90°	456.6	475.6	461.5	511.5	476.2	566.4	717.0	712.6	705.0	595.8	440.3
92.5°	415.3	419.1	408.8	453.9	414.8	496.3	636.5	622.9	606.1	516.9	375.1
95°	371.8	370.2	360.4	396.8	362.0	415.3	540.9	520.2	511.5	436.5	313.1
97.5°	297.9	298.4	293.5	318.5	293.5	331.6	406.1	398.4	381.0	326.1	239.7
100°	260.9	262.5	259.3	278.9	257.7	282.1	338.1	336.5	322.3	278.3	209.3
102.5°	246.8	247.3	251.7	263.6	243.5	261.5	308.2	308.8	299.5	259.3	196.8
105°	237.0	236.5	239.7	249.5	232.1	245.2	288.1	288.1	275.1	244.6	186.4
107.5°	229.4	228.3	233.7	241.9	229.9	233.7	266.9	269.1	256.6	227.8	177.2
110°	220.7	220.1	229.4	235.4	224.0	224.5	253.3	251.7	240.3	221.8	174.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	224.0	227.2	237.5	220.7	203.8	204.9	227.2	*229.9*	221.8	202.8	165.8
115°	221.2	224.5	238.1	214.2	189.2	195.7	214.2	*216.3*	204.4	188.6	156.0
117.5°	211.5	212.5	220.7	214.7	188.6	196.2	205.5	*209.3*	200.6	188.6	157.6
120°	250.0	241.9	241.9	232.7	203.3	216.9	234.3	*237.5*	229.4	207.1	157.1
122.5°	229.9	227.2	227.8	215.8	201.1	212.5	233.2	*238.6*	231.6	209.3	157.1
125°	181.0	181.6	178.8	182.6	176.7	180.5	191.3	*200.0*	193.5	181.6	149.5
127.5°	164.7	164.2	160.9	177.2	158.7	166.3	176.7	*181.6*	175.0	161.4	135.4
130°	160.4	160.4	169.6	186.4	175.6	172.3	168.5	*173.4*	172.3	163.6	135.4
132.5°	150.0	150.6	164.2	185.9	181.6	166.3	152.7	*155.5*	160.4	162.5	143.0
135°	150.0	148.4	144.0	148.9	146.2	150.0	146.2	*150.0*	151.1	150.0	125.0
137.5°	159.8	158.7	147.9	141.3	141.9	153.8	154.4	*156.0*	154.4	145.7	121.2
140°	156.6	152.7	145.1	142.4	143.0	155.5	160.4	*161.4*	159.8	143.0	114.2
142.5°	151.1	151.1	153.3	156.6	161.4	219.6	204.4	*218.5*	219.1	201.7	117.4
145°	216.9	219.1	212.5	205.5	222.9	264.2	248.4	*263.6*	274.0	254.9	162.0
147.5°	195.7	198.9	195.1	189.2	212.0	212.5	202.8	*204.4*	207.1	211.5	163.6
150°	138.6	134.8	140.8	136.4	159.3	158.2	144.6	*147.9*	153.8	154.4	130.5
152.5°	102.7	101.1	100.0	99.5	114.7	105.5	100.6	*98.9*	100.0	99.5	93.5
155°	90.8	90.8	90.2	93.0	101.1	94.6	89.7	*90.2*	87.5	85.9	82.6
157.5°	70.7	69.0	70.7	75.6	78.8	72.8	71.2	*70.1*	69.6	66.9	67.9
160°	58.2	58.2	59.3	63.1	65.2	60.9	57.6	*56.5*	56.5	55.4	59.3
162.5°	49.5	49.5	50.6	51.6	52.7	50.6	49.5	*49.5*	48.9	48.9	52.7
165°	41.3	41.3	41.9	44.0	44.6	43.5	42.9	*43.5*	43.5	45.7	48.9
167.5°	38.1	38.1	38.6	39.7	40.2	39.7	41.3	*42.9*	44.6	46.7	47.8
170°	36.4	36.4	37.0	37.5	38.6	39.7	42.9	*44.0*	44.6	44.0	44.0
172.5°	37.5	37.5	37.5	38.6	39.7	42.4	45.1	*45.1*	44.0	42.9	42.9
175°	38.1	37.5	38.1	39.1	40.8	42.4	43.5	*44.6*	44.6	44.0	44.0
177.5°	37.5	37.5	38.1	38.6	38.6	38.6	39.1	*39.7*	39.7	40.2	40.8
180°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	*37.0*	37.0	37.0	37.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4	254.4
2.5°	284.3	268.5	198.9	132.1	162.0	236.5	275.6	258.2	192.4	110.9	94.0
5°	116.3	130.5	152.2	145.7	131.0	107.6	81.0	80.4	111.4	135.4	137.5
7.5°	112.0	102.7	97.3	107.6	100.6	69.6	58.7	48.9	52.2	76.6	73.4
10°	138.1	134.8	125.6	102.7	75.6	62.5	58.7	59.8	64.1	57.6	57.1
12.5°	153.8	145.7	125.6	119.0	101.1	71.8	59.3	54.9	58.7	73.4	79.4
15°	168.5	156.6	131.5	110.3	90.8	74.5	63.6	55.4	49.5	42.9	42.4
17.5°	181.6	166.3	138.6	114.7	90.2	74.5	61.4	48.4	41.9	39.7	39.7
20°	197.3	183.2	147.9	119.6	90.8	72.8	59.3	47.8	41.9	39.7	39.7
22.5°	218.5	195.1	157.6	121.8	91.9	72.3	58.2	48.9	43.5	40.2	40.2
25°	224.5	206.6	164.2	128.8	96.2	75.0	60.9	50.6	44.6	41.9	41.3
27.5°	228.8	215.3	176.7	134.8	101.1	80.4	65.2	52.7	45.7	42.9	42.4
30°	245.7	233.7	190.3	143.5	107.6	85.9	69.0	56.0	47.8	43.5	42.4
32.5°	281.6	264.7	210.4	152.2	115.8	91.9	73.9	59.3	50.0	44.6	43.5
35°	350.1	336.5	263.6	170.1	124.5	99.5	79.9	63.6	52.7	46.2	45.7
37.5°	429.4	408.2	320.2	197.9	130.5	106.0	85.9	67.9	55.4	48.9	47.8
40°	443.0	382.7	283.7	180.5	131.5	109.3	91.3	72.8	58.7	51.1	49.5
42.5°	555.5	469.7	328.9	186.4	134.3	109.3	92.4	76.1	62.0	52.7	51.6
45°	587.6	468.0	327.2	208.2	147.3	112.5	93.0	77.7	64.7	55.4	53.8
47.5°	749.1	574.0	332.1	221.2	160.9	123.9	96.8	78.8	65.2	57.1	56.5
50°	1070.8	767.5	399.5	266.9	193.0	144.6	108.7	82.6	66.3	58.7	58.2
52.5°	1322.5	911.6	428.9	319.6	245.7	183.7	129.9	92.4	68.5	59.3	58.2
55°	1572.0	1087.2	483.2	377.2	292.4	221.2	161.4	108.2	73.9	60.3	59.3
57.5°	1952.5	1305.1	550.6	433.8	346.8	256.6	180.5	122.3	80.4	61.4	59.8
60°	2183.6	1382.3	557.7	462.6	377.8	281.6	187.0	127.7	88.6	65.8	63.1
62.5°	2391.2	1451.9	562.6	475.6	383.2	284.3	187.5	123.4	90.2	72.3	69.0
65°	*2445.0*	*1395.4*	*567.5*	*480.0*	*373.4*	*268.5*	*180.5*	*119.0*	*85.9*	*78.3*	*77.7*
67.5°	2323.3	1251.3	533.8	463.7	347.3	241.3	162.5	113.1	83.7	76.1	77.7
70°	1810.1	993.7	489.2	427.3	300.1	203.8	144.6	105.5	82.6	72.3	70.7
72.5°	1426.4	845.3	494.1	407.1	253.3	180.5	127.7	96.2	78.3	70.7	69.6
75°	1111.1	708.3	475.6	350.6	205.5	153.8	112.0	85.9	72.8	67.9	67.4
77.5°	814.8	562.1	392.5	270.2	169.6	128.3	97.8	78.8	69.0	64.7	64.1
80°	534.3	397.4	273.4	215.8	146.2	115.8	89.1	73.9	66.3	62.5	62.0
82.5°	454.4	352.8	243.0	198.4	135.4	111.4	87.5	72.3	65.8	61.4	60.9
85°	438.1	361.5	248.4	205.5	128.8	106.5	84.8	71.2	64.1	60.3	59.8
87.5°	411.5	327.2	240.3	184.3	119.0	97.3	79.4	68.5	61.4	58.2	57.1
90°	366.4	279.9	206.6	158.2	113.1	91.3	75.0	65.2	59.8	56.5	55.4
92.5°	295.7	212.5	162.5	139.7	110.3	90.8	74.5	65.2	59.8	56.5	55.4
95°	248.4	182.1	145.7	127.7	102.7	85.9	71.2	63.1	58.2	54.9	54.9
97.5°	196.8	152.2	129.9	114.7	92.4	78.3	67.4	60.3	56.0	52.7	52.7
100°	174.5	141.3	123.4	107.6	87.5	73.9	65.8	58.7	54.9	51.1	51.1
102.5°	165.8	137.0	121.8	102.2	83.7	71.2	63.1	56.5	53.3	49.5	49.5
105°	160.4	135.4	120.7	99.5	79.9	67.9	60.3	53.8	51.1	48.4	47.8
107.5°	154.9	133.2	122.3	97.8	76.6	65.8	60.3	53.3	50.0	47.8	47.8
110°	152.2	134.3	121.8	96.2	75.6	65.2	59.8	53.8	51.1	48.9	48.4

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

Scaled Data Report

REPORT NUMBER: P1046628
CATALOG NUMBER: FFX-CLB-50-750-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	145.1	128.3	116.3	91.3	73.9	63.6	57.6	53.3	49.5	47.3	46.7
115°	138.1	118.0	106.5	87.0	70.1	61.4	56.0	51.6	47.8	46.2	46.2
117.5°	140.8	115.2	97.8	85.3	69.0	59.8	54.9	50.6	47.3	46.2	45.7
120°	139.2	121.2	109.8	91.3	68.5	58.2	53.8	49.5	46.7	46.2	46.2
122.5°	133.2	131.0	120.7	93.0	66.3	58.7	54.9	51.1	48.4	46.7	46.7
125°	128.3	127.2	112.5	83.7	67.9	60.9	57.6	53.8	52.2	50.6	50.0
127.5°	118.5	106.5	93.5	80.4	69.0	62.0	58.7	56.5	54.9	52.2	51.6
130°	119.0	109.3	96.2	81.0	66.3	60.9	59.3	57.1	54.4	50.0	49.5
132.5°	129.4	119.0	95.7	75.0	63.6	60.9	59.8	57.1	51.1	46.2	45.7
135°	107.6	100.6	84.8	71.8	64.7	63.1	62.5	56.5	47.8	44.6	44.0
137.5°	104.9	94.6	81.5	72.3	67.4	64.1	62.0	54.4	44.6	41.3	40.2
140°	98.9	89.1	79.9	73.4	65.2	54.4	49.5	45.7	41.3	38.6	38.1
142.5°	98.9	89.7	75.6	64.7	56.5	50.6	47.8	44.6	39.7	35.9	34.8
145°	116.9	106.0	91.3	82.1	73.4	64.1	54.9	45.1	37.0	32.1	31.5
147.5°	132.6	119.6	108.2	93.0	78.8	63.6	50.6	39.7	33.7	31.5	31.5
150°	108.7	96.8	90.8	77.7	65.2	52.2	42.9	37.0	33.7	32.6	32.6
152.5°	81.5	68.5	64.1	57.1	49.5	42.9	38.6	35.3	34.2	33.7	33.7
155°	76.1	65.2	59.8	53.3	45.7	40.2	37.5	35.9	34.8	34.2	34.2
157.5°	66.3	60.3	53.3	48.4	42.9	39.1	37.5	36.4	35.3	34.8	34.8
160°	59.3	54.9	48.4	44.6	40.8	39.1	39.1	38.6	37.0	36.4	36.4
162.5°	53.3	51.6	45.7	42.4	40.8	41.3	44.0	43.5	40.8	38.6	38.1
165°	49.5	47.8	43.5	41.9	40.8	42.9	48.4	47.3	42.9	40.2	40.2
167.5°	47.3	46.2	42.9	41.3	41.9	46.2	51.1	51.6	47.8	44.0	43.5
170°	43.5	43.5	42.9	43.5	43.5	45.7	48.4	50.0	50.0	51.1	50.6
172.5°	42.9	43.5	45.1	45.1	44.6	45.1	47.3	50.0	51.6	53.3	53.8
175°	44.0	44.6	45.7	46.2	46.2	47.3	50.6	52.7	53.8	53.3	53.3
177.5°	40.8	41.3	41.9	44.0	45.1	46.2	49.5	50.6	51.6	52.7	52.7
180°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0

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

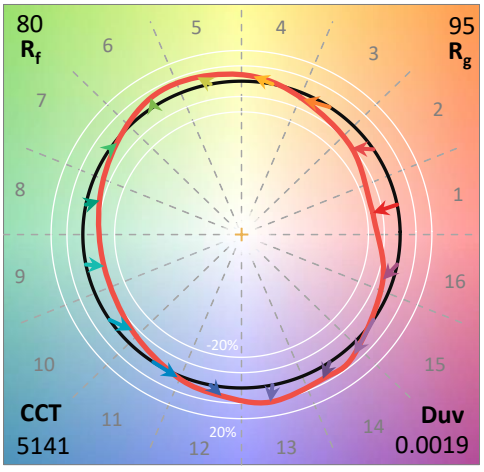
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Version: v7.04

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

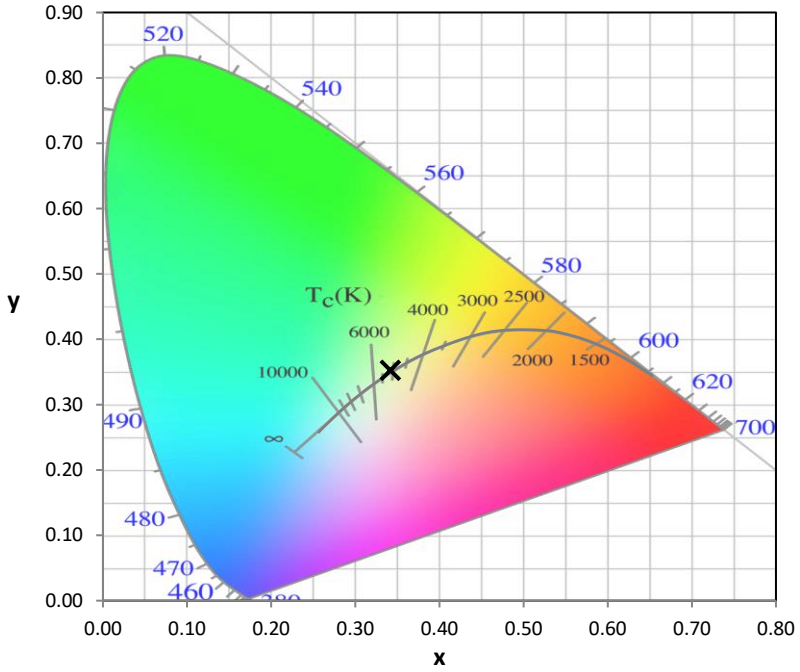
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

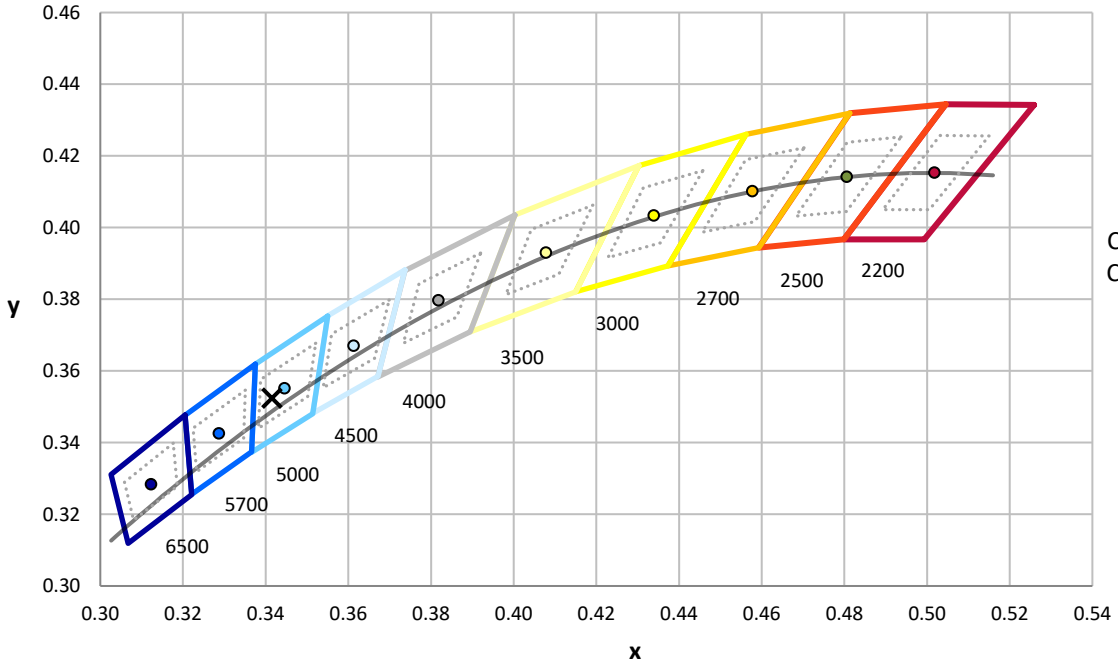
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

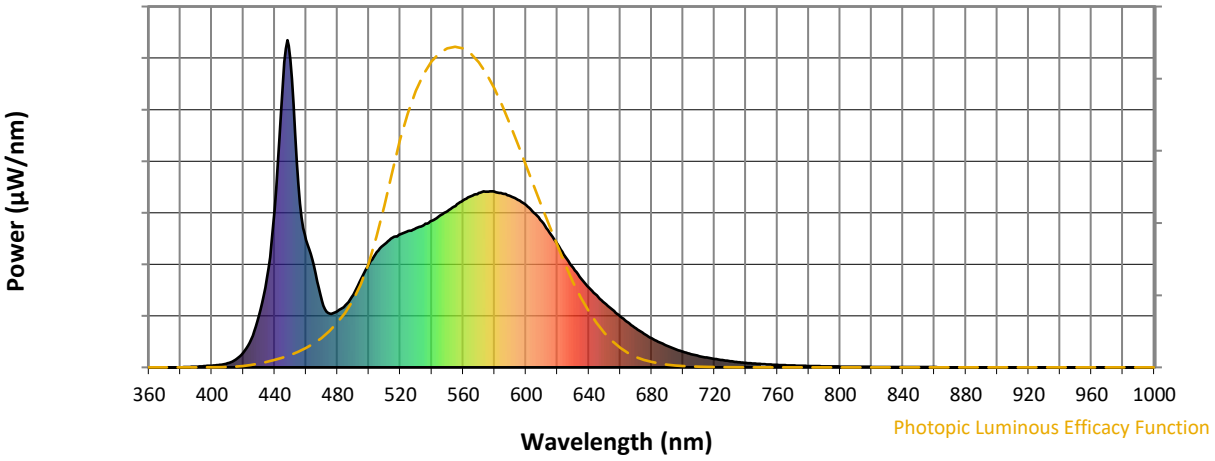


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

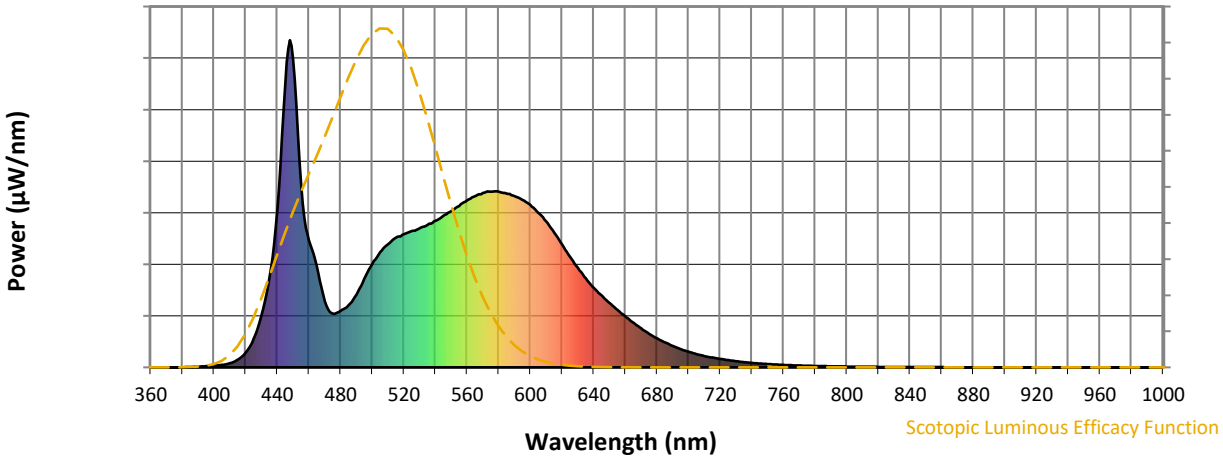


Photopic Lumens: NR

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

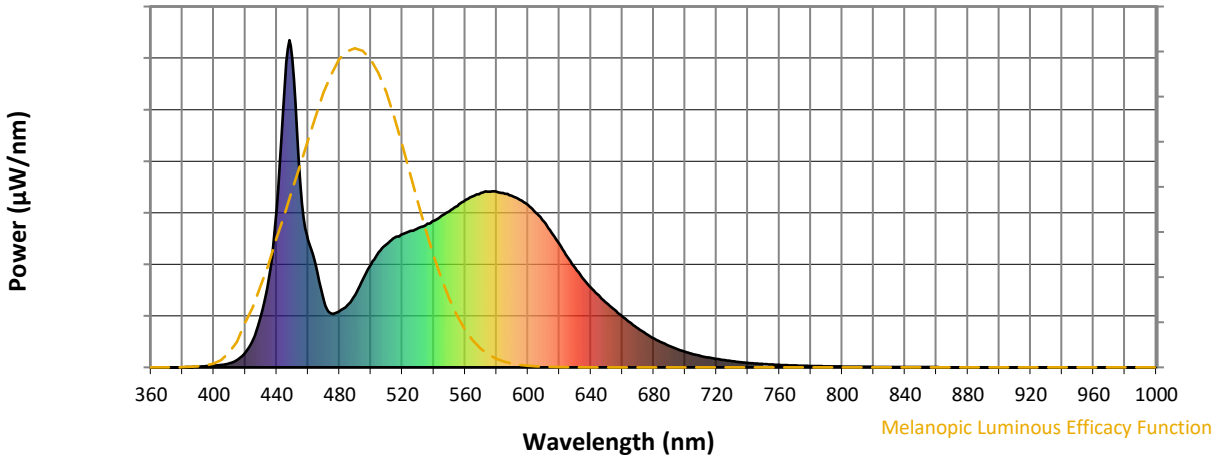


Scotopic Lumens: NR **S/P: 1.92**

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			

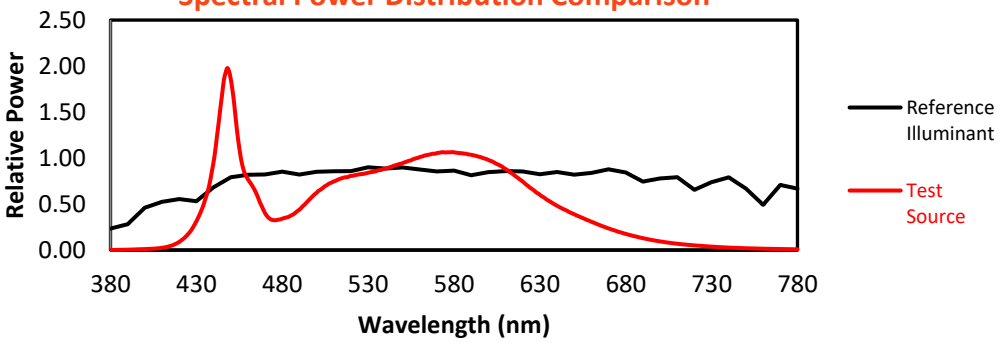
REPORT NUMBER: SP1-2501-332-10

TM-30-18

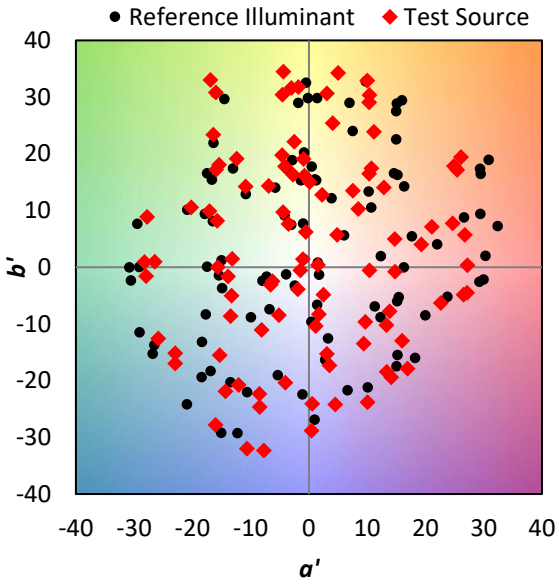
Summary

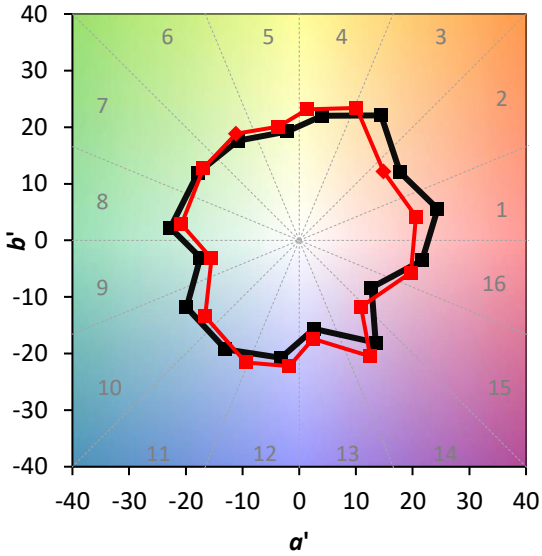
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

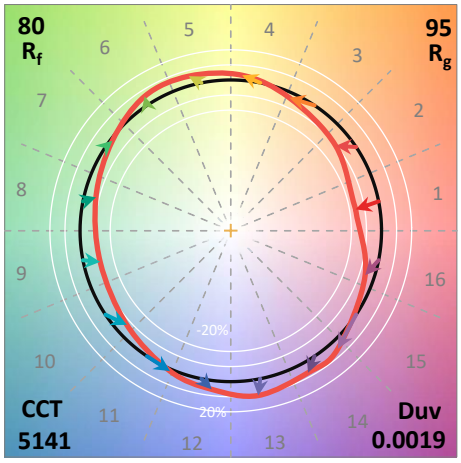
Spectral Power Distribution Comparison

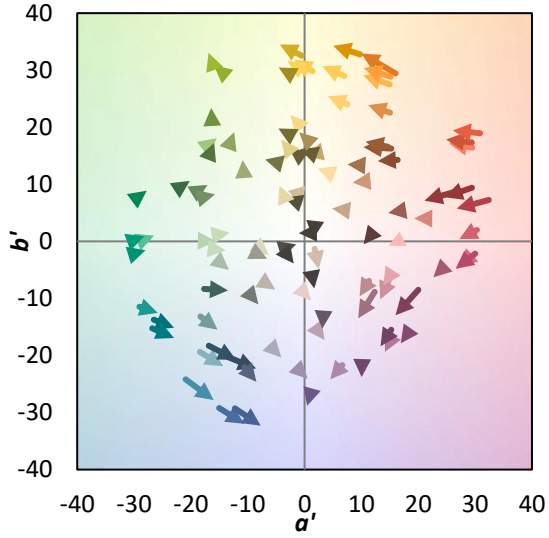


Color Vector Graphics







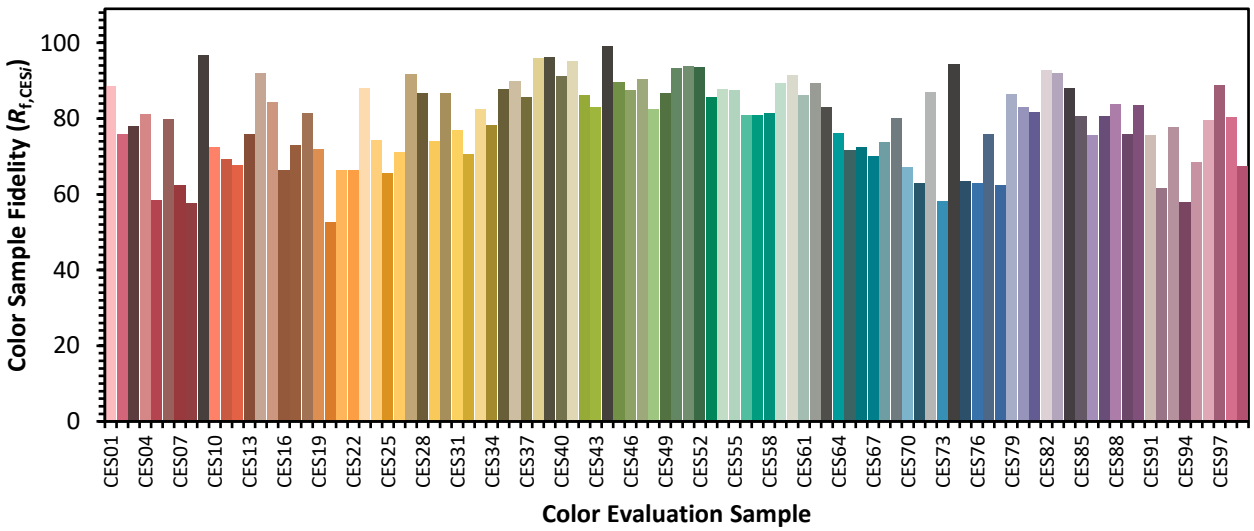


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

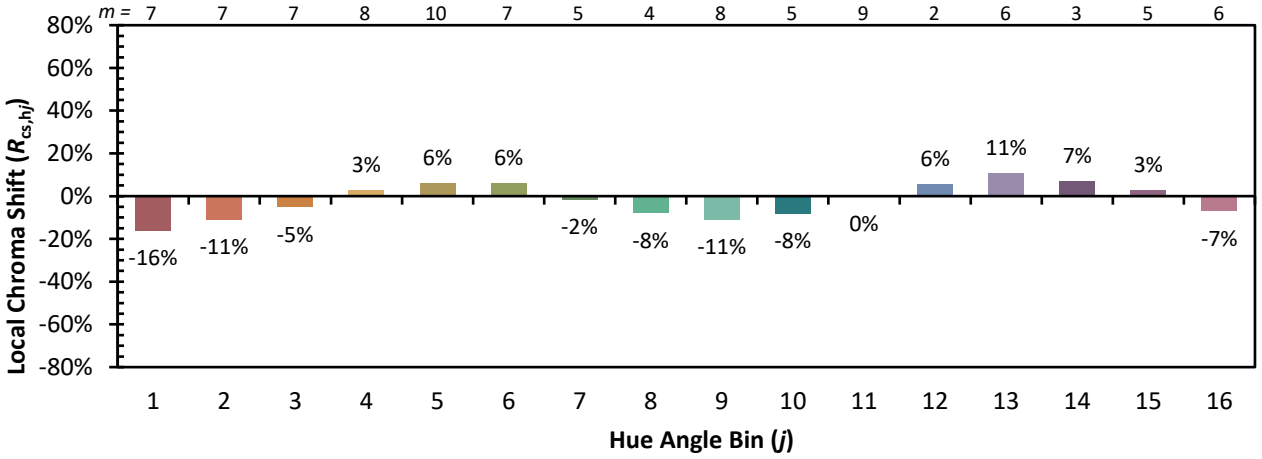
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57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

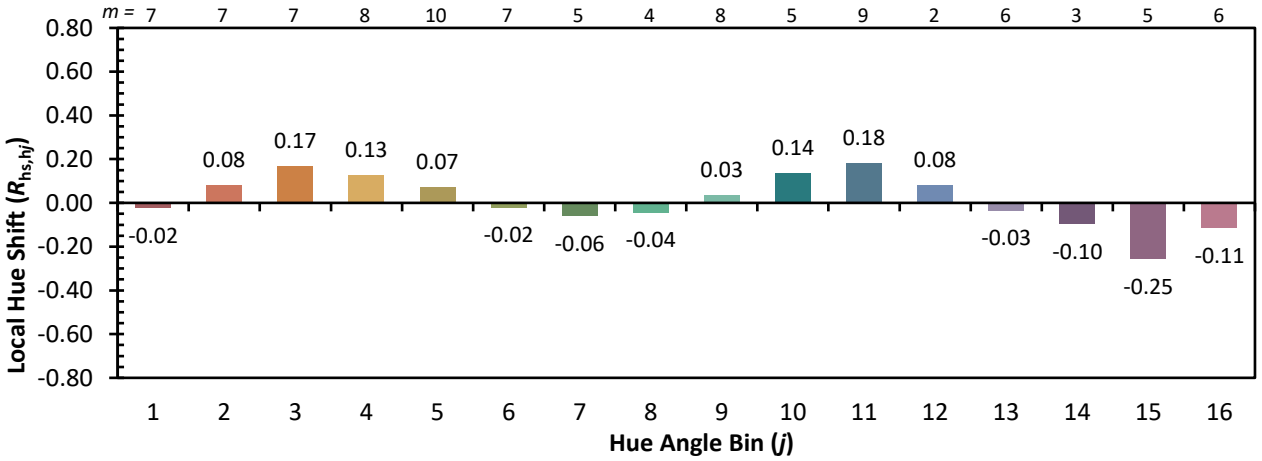


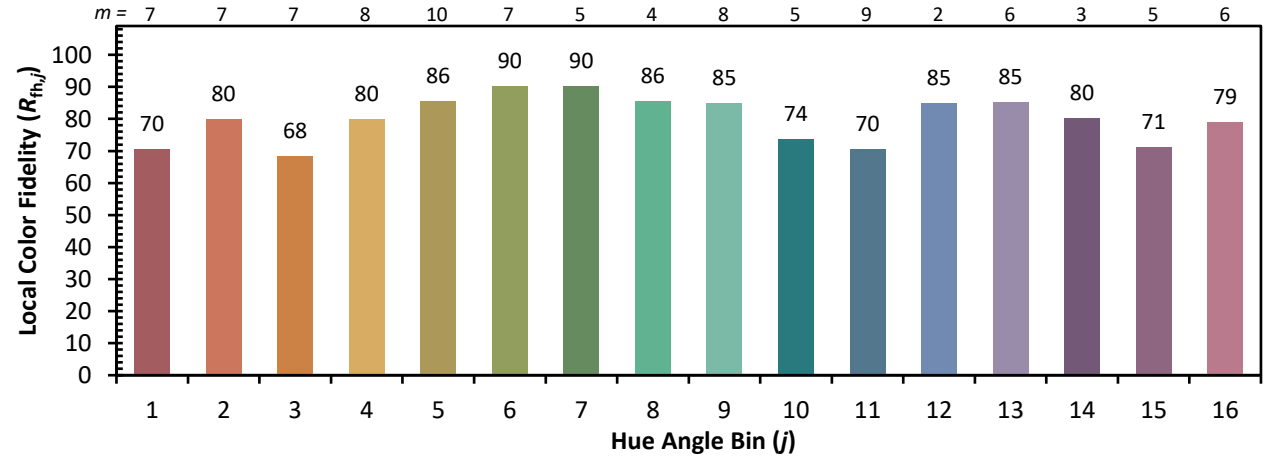
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Color Rendition by Hue-Angle Bin



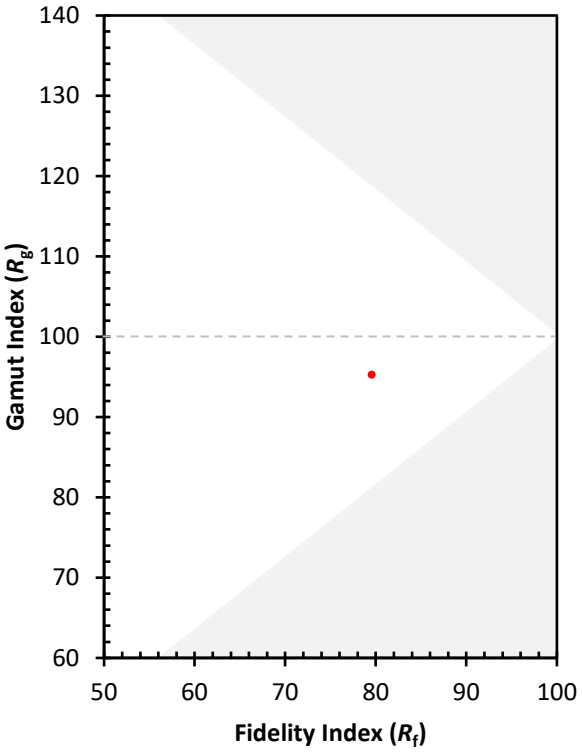


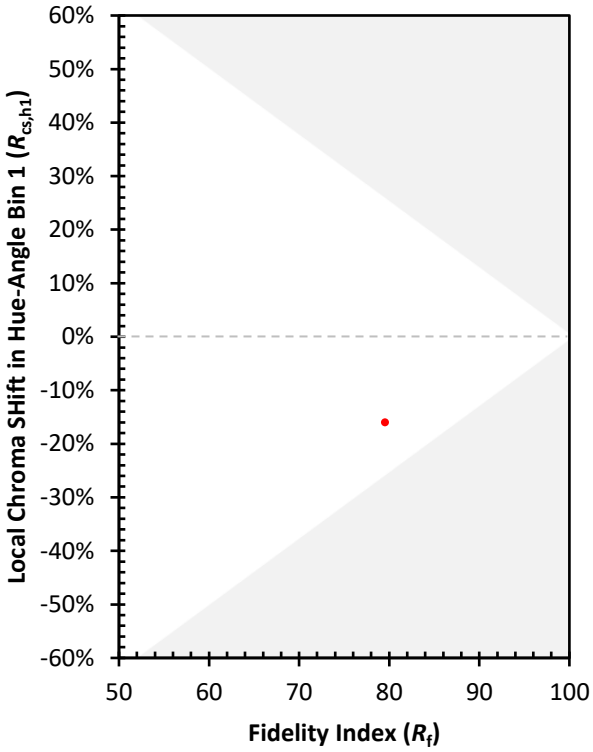


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Measure Comparisons





(END OF REPORT)