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: P1046403

Luminaire Tested: **FFX-CLB-50-750-U-FR-T4**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046403
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-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:	8347.9 lumens
Efficiency:	N/A
Efficacy:	165.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - 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

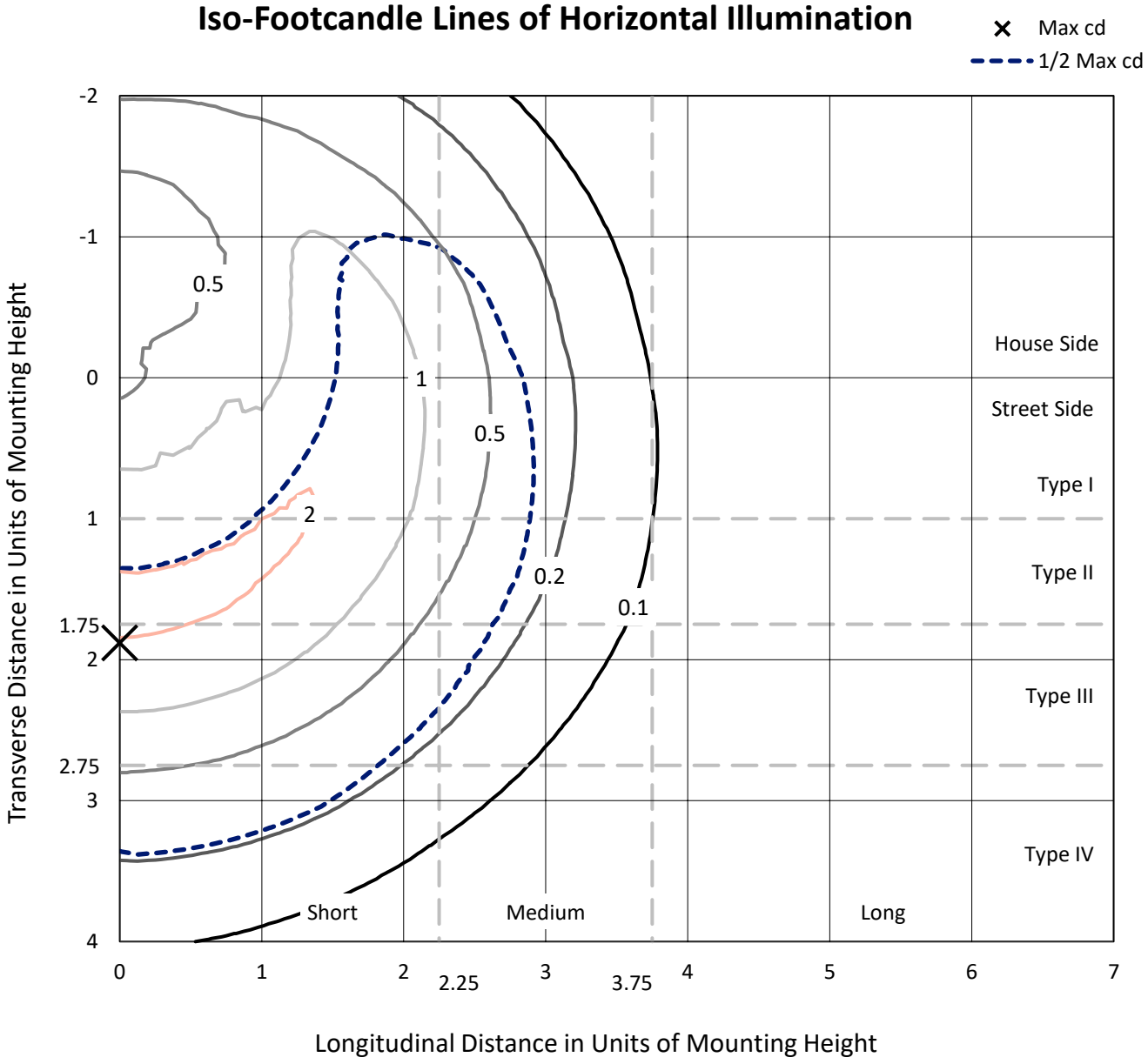


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Iso-Footcandle Lines of Horizontal Illumination



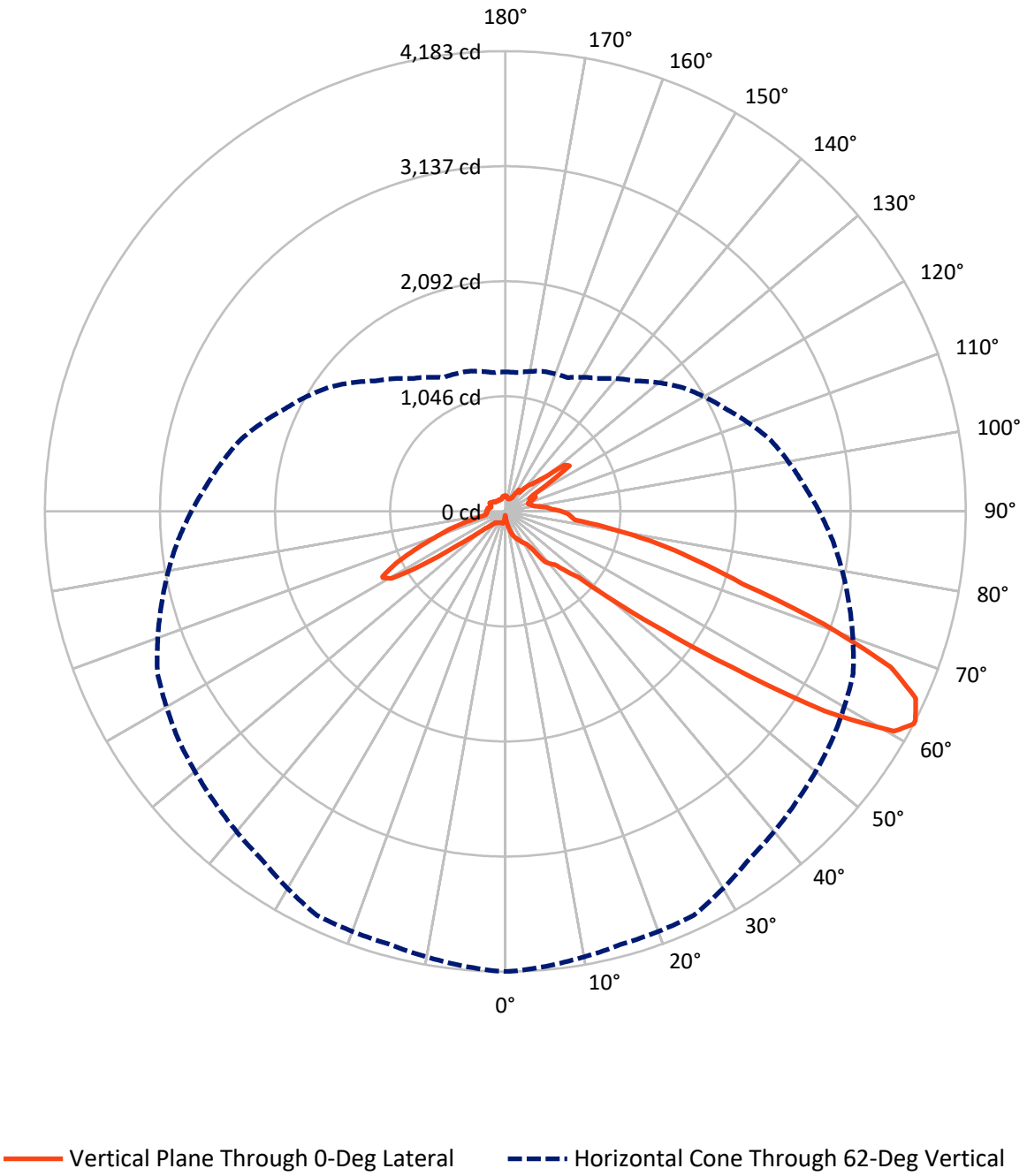
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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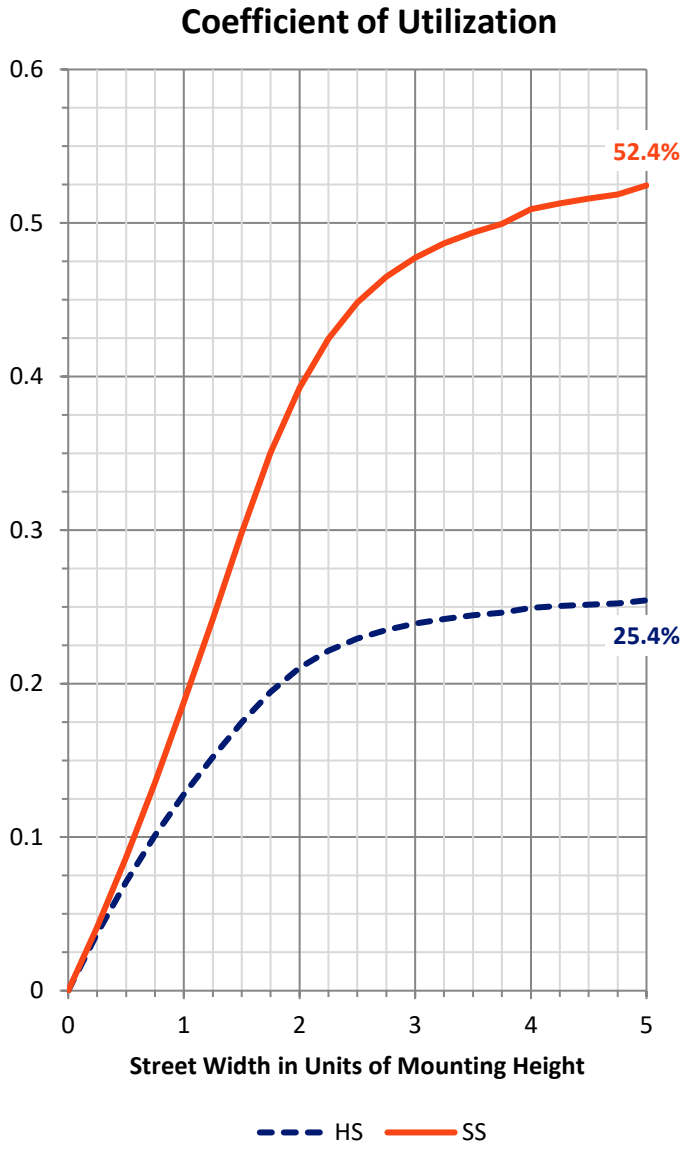
REPORT NUMBER: P1046403
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2196.5	627.6	2824.0
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	4559.9	963.9	5523.9
	% Fixture	54.6	11.5	66.2
Total	Lumens	6756.4	1591.5	8347.9
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	46.3	0.6
20°-30°	100.3	1.2
30°-40°	200.7	2.4
40°-50°	439.7	5.3
50°-60°	1539.4	18.4
60°-70°	2576.4	30.9
70°-80°	1337.3	16.0
80°-90°	507.9	6.1
90°-100°	323.9	3.9
100°-110°	214.6	2.6
110°-120°	224.2	2.7
120°-130°	374.6	4.5
130°-140°	225.5	2.7
140°-150°	119.2	1.4
150°-160°	62.7	0.8
160°-170°	34.0	0.4
170°-180°	12.7	0.2
0°-90°	6756.4	80.9
0°-180°	8347.9	100.0



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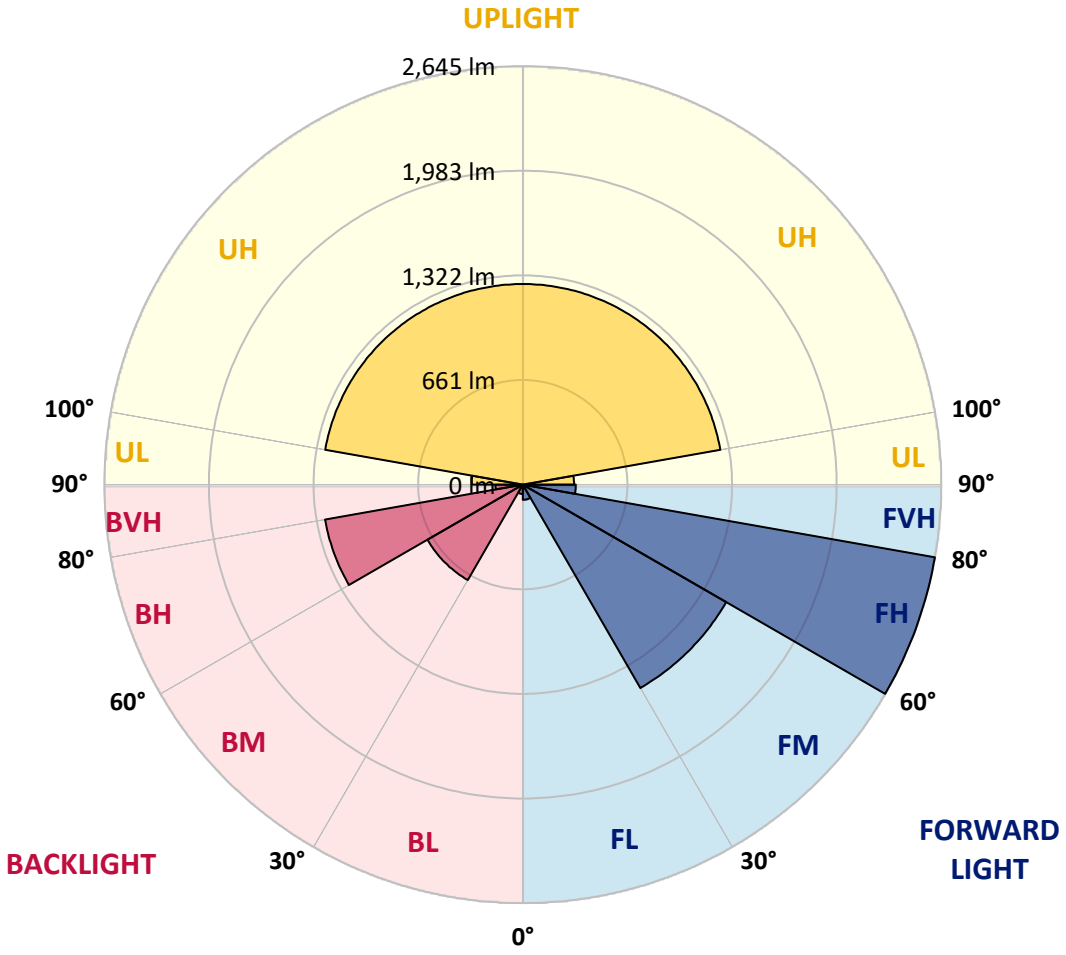
Scaled Data Report

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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°)	96.2	1.2			
FM	(30°-60°)	1484.2	17.8			
FH	(60°-80°)	2644.6	31.7			G2/5000
FVH	(80°-90°)	335.0	4.0			G3/500
BL	(0°-30°)	58.9	0.7	B0/110		
BM	(30°-60°)	695.7	8.3	B1/1000		
BH	(60°-80°)	1269.0	15.2	B3/2500		G3/2500
BVH	(80°-90°)	172.9	2.1			G2/225
UL	(90°-100°)	323.9	3.9		U3/500	
UH	(100°-180°)	1267.6	15.2		U5	

BUG Rating: B3-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*52.0*	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	*52.6*	51.5	51.5	53.6	56.3	56.3	56.8	55.2	55.2	54.7	55.2
5°	*76.5*	74.3	75.4	75.9	77.0	78.1	79.1	79.1	77.0	75.4	71.2
7.5°	*106.7*	106.2	107.3	106.7	105.7	108.3	109.9	113.6	114.7	107.8	99.3
10°	*137.5*	135.9	135.4	135.9	136.5	134.9	138.1	140.7	137.0	129.0	121.6
12.5°	*171.0*	171.0	171.0	170.5	170.5	169.9	168.9	168.3	164.6	155.6	143.9
15°	*208.2*	208.7	209.8	209.2	206.6	202.3	199.1	196.5	194.4	188.0	173.1
17.5°	*231.0*	229.9	231.0	230.5	229.4	226.8	220.9	215.6	208.7	199.7	188.5
20°	*252.2*	251.7	251.2	251.2	250.1	246.9	243.2	234.7	225.7	216.1	203.4
22.5°	*268.7*	267.6	268.7	268.2	267.6	266.6	260.2	252.8	242.7	232.1	218.8
25°	*289.9*	289.4	289.9	288.4	288.4	286.8	283.0	273.5	262.3	250.7	234.2
27.5°	*313.3*	311.7	313.3	312.8	310.7	306.4	303.2	292.6	278.8	267.6	252.8
30°	*333.0*	333.0	334.0	330.8	333.0	329.2	321.8	310.1	298.4	284.1	268.7
32.5°	*353.7*	353.7	352.6	352.1	354.7	350.0	341.5	327.7	318.1	303.2	289.9
35°	*411.6*	407.3	414.2	413.7	427.0	417.4	401.5	382.9	368.0	348.9	331.4
37.5°	*577.8*	575.7	572.5	552.3	528.9	532.6	535.3	514.6	496.0	461.5	420.6
40°	*625.0*	624.5	624.0	612.3	618.7	601.7	593.2	582.6	579.4	534.2	479.5
42.5°	*663.8*	657.4	663.8	685.0	718.5	706.8	663.8	608.6	598.5	555.5	533.2
45°	*768.9*	764.7	775.3	781.7	771.1	752.0	764.2	723.8	696.2	635.1	594.2
47.5°	*894.8*	890.6	900.6	906.0	927.7	907.6	898.0	863.5	817.3	759.4	706.3
50°	*1270.3*	1222.5	1261.2	1247.9	1253.3	1208.1	1226.2	1176.8	1135.4	1040.3	944.2
52.5°	*1793.3*	1777.4	1750.8	1721.1	1743.9	1695.6	1710.5	1656.9	1582.0	1471.5	1329.7
55°	*2501.2*	2447.6	2464.6	2525.6	2512.9	2426.3	2411.5	2280.8	2146.5	1981.3	1832.1
57.5°	*3427.3*	3400.8	3370.0	3329.1	3289.3	3199.5	3155.5	3009.4	2800.7	2570.2	2362.6
60°	*4057.7*	4036.5	4022.6	3897.9	3824.6	3644.0	3603.1	3501.7	3315.8	3065.2	2778.9
62°	*4183.0*	*4179.8*	*4151.7*	*4074.2*	*4052.4*	*3861.2*	*3736.9*	*3623.8*	*3487.4*	*3233.0*	*2983.9*
62.5°	*4182.0*	4175.6	4159.1	4094.3	4072.0	3893.1	3758.2	3638.2	3502.2	3252.6	3007.8
65°	*4097.0*	4082.7	4075.2	4036.5	4026.4	3921.2	3742.3	3618.5	3504.3	3229.3	3025.3
67.5°	*3777.3*	3794.3	3795.4	3756.6	3723.1	3660.5	3489.5	3382.2	3303.6	3016.9	2824.6
70°	*3066.2*	3043.4	3020.0	3038.1	3023.2	2989.2	2853.3	2718.4	2620.2	2469.9	2287.7
72.5°	*2253.7*	2289.9	2289.3	2294.6	2297.3	2211.8	2151.3	2073.7	2020.6	1890.5	1760.4
75°	*1806.6*	1809.8	1799.7	1762.5	1722.7	1673.3	1683.9	1677.0	1651.5	1514.0	1385.0
77.5°	*1426.4*	1391.3	1405.7	1347.3	1295.7	1295.2	1315.9	1336.1	1347.3	1236.8	1137.0
80°	*1004.2*	996.2	983.5	988.8	946.3	957.5	967.6	981.4	959.6	894.3	848.1
82.5°	*634.1*	627.2	617.1	665.9	706.8	697.8	665.4	613.4	601.1	605.9	595.3
85°	*599.5*	599.0	590.0	585.2	578.8	564.5	572.5	583.6	577.2	541.1	494.4
87.5°	*566.1*	564.5	557.6	554.9	542.7	541.1	548.6	552.8	555.5	523.1	483.8
90°	*496.0*	489.6	483.2	488.6	487.0	488.0	490.2	489.1	490.2	451.9	435.5
92.5°	*413.7*	412.1	407.3	410.0	413.7	428.6	422.2	412.1	410.5	395.1	379.2
95°	*377.6*	378.6	372.8	376.5	377.6	377.6	373.3	368.5	364.8	352.6	338.3
97.5°	*312.8*	308.0	305.9	308.5	309.6	305.9	303.2	295.3	294.7	282.5	275.6
100°	*266.1*	265.0	263.9	267.1	268.2	266.6	267.1	262.3	261.8	254.9	247.5
102.5°	*248.5*	248.0	247.5	250.1	251.2	250.1	248.5	243.7	244.8	237.4	232.1
105°	*234.7*	234.7	234.2	235.8	232.6	231.0	228.9	228.9	229.9	224.1	216.1
107.5°	*219.3*	218.8	219.3	218.8	215.1	213.5	212.9	211.4	215.1	211.9	203.4

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CATALOG NUMBER: FFX-CLB-50-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*222.0*	222.0	221.4	215.6	213.5	210.8	209.8	212.4	211.4	206.0	200.7
112.5°	*271.9*	268.7	270.8	262.9	259.1	261.3	262.3	264.5	268.7	260.2	252.2
115°	*303.8*	304.3	309.6	309.6	301.6	305.3	305.3	304.8	309.1	302.7	294.7
117.5°	*248.0*	251.2	268.2	257.6	260.2	262.3	249.1	244.3	243.2	244.8	261.8
120°	*285.7*	281.5	297.4	263.9	253.8	253.8	263.4	275.6	262.3	242.2	247.5
122.5°	*467.3*	467.8	468.4	482.7	481.1	485.4	477.9	468.4	440.8	441.3	416.3
125°	*715.3*	708.4	708.4	702.0	701.0	690.9	703.6	711.6	690.4	654.2	614.9
127.5°	*684.5*	699.4	694.1	678.1	662.7	657.4	672.3	697.3	685.0	653.2	617.1
130°	*485.9*	489.6	488.6	505.6	509.8	504.5	509.8	491.7	494.4	501.8	482.7
132.5°	*407.3*	405.2	412.6	436.0	445.0	434.4	419.5	406.2	406.8	422.7	421.6
135°	*351.0*	349.4	354.7	355.8	365.9	357.4	344.1	344.1	347.3	351.0	349.4
137.5°	*317.0*	314.9	316.5	304.3	292.1	291.5	302.2	308.0	304.8	301.1	296.9
140°	*273.0*	274.0	271.4	261.3	256.0	257.0	263.9	273.0	270.3	262.3	256.0
142.5°	*217.2*	215.1	218.3	225.7	236.3	236.3	225.7	214.5	214.0	217.7	223.0
145°	*214.0*	212.9	213.5	211.9	214.0	211.9	208.7	205.5	201.8	199.1	197.0
147.5°	*232.1*	232.1	231.5	228.9	226.8	223.0	224.1	227.8	229.9	227.8	224.6
150°	*188.5*	190.1	190.1	189.6	187.5	189.1	191.2	192.2	194.4	194.4	191.2
152.5°	*145.0*	144.4	146.0	143.9	143.4	144.4	147.1	149.2	149.8	149.8	145.5
155°	*138.1*	137.0	138.1	137.0	135.9	137.0	139.1	140.2	141.3	139.7	135.4
157.5°	*129.0*	129.0	129.0	128.0	128.5	128.5	129.6	130.1	130.6	130.1	129.0
160°	*122.1*	122.1	122.7	122.1	122.1	123.2	122.7	122.1	122.1	121.6	121.1
162.5°	*117.9*	117.9	117.9	117.9	117.4	117.4	117.9	117.4	116.8	116.3	117.4
165°	*115.8*	115.2	115.2	115.2	115.8	115.2	115.2	115.2	114.7	116.3	118.4
167.5°	*120.0*	119.0	119.5	120.0	120.0	119.5	119.5	119.5	120.5	122.1	123.7
170°	*125.9*	125.3	125.3	125.9	125.9	125.3	125.3	125.3	125.9	126.4	126.9
172.5°	*130.6*	130.1	130.1	130.1	129.6	129.0	129.0	129.0	129.0	129.0	129.6
175°	*135.4*	135.4	135.4	135.4	134.9	134.4	134.4	134.4	134.4	134.4	134.4
177.5°	*140.7*	140.2	140.7	140.2	140.2	140.2	139.7	139.1	138.6	138.6	138.6
180°	*139.7*	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	54.2	53.6	50.4	47.8	45.7	43.5	40.4	37.7	35.6	35.0	35.0
5°	70.1	69.0	65.8	61.6	59.5	56.3	53.1	51.0	48.3	47.3	47.8
7.5°	96.6	97.2	98.2	100.4	99.3	90.3	80.2	78.1	80.2	83.4	85.0
10°	120.0	118.4	117.9	124.8	123.2	109.9	96.6	92.4	96.1	103.0	106.2
12.5°	139.1	135.9	135.4	136.5	130.1	115.8	104.6	99.8	102.0	107.3	106.7
15°	167.3	162.5	155.6	151.3	143.4	133.3	119.5	111.5	111.5	111.5	111.0
17.5°	183.7	178.4	165.2	152.9	142.9	135.4	126.4	119.0	111.0	109.9	109.4
20°	198.1	190.1	175.8	162.5	149.8	139.1	126.4	117.4	110.5	109.4	108.9
22.5°	210.3	202.9	187.5	171.5	155.6	143.4	129.6	120.0	113.1	111.0	110.5
25°	226.8	218.8	201.3	182.7	164.1	148.7	135.9	124.8	116.3	112.0	112.0
27.5°	243.2	234.2	214.5	195.4	175.2	156.1	141.8	130.6	120.0	114.2	113.6
30°	259.1	249.1	227.8	206.0	185.9	165.7	149.2	136.5	124.8	118.4	117.9
32.5°	281.5	269.8	244.8	217.7	197.5	175.8	157.2	142.3	130.1	123.7	122.7
35°	325.0	311.7	283.6	248.5	216.7	187.5	165.2	145.5	133.8	126.9	126.4
37.5°	405.7	390.3	351.0	308.0	264.5	220.4	179.5	149.8	136.5	130.1	129.0
40°	454.0	423.8	382.4	348.4	315.4	273.0	220.4	173.7	141.8	134.4	133.3
42.5°	516.7	485.4	425.4	360.6	318.6	285.2	248.0	217.7	172.1	145.5	140.7
45°	576.2	552.3	500.8	431.7	368.0	310.1	263.9	234.7	205.5	175.2	170.5
47.5°	676.0	641.0	573.0	502.4	437.6	372.8	318.1	261.3	223.6	205.5	204.5
50°	932.0	868.3	770.0	685.6	563.4	464.1	399.3	323.4	275.1	246.9	237.9
52.5°	1262.8	1196.4	1084.4	962.2	826.8	698.9	571.9	463.1	384.5	335.1	336.7
55°	1755.6	1689.2	1524.6	1315.4	1129.5	996.2	860.3	728.1	601.7	528.9	519.9
57.5°	2275.5	2216.0	2075.3	1819.9	1524.1	1277.7	1116.3	1022.8	958.0	878.9	878.9
60°	2656.8	2558.0	2398.7	2141.2	1878.8	1554.9	1347.8	1214.0	1202.3	1188.5	1199.1
62°	*2851.7*	*2724.2*	*2497.0*	*2207.5*	*1963.8*	*1675.4*	*1474.2*	*1341.4*	*1318.0*	*1266.0*	*1267.1*
62.5°	2884.6	2743.9	2513.4	2207.5	1971.2	1686.1	1488.0	1358.4	1326.0	1262.3	1263.4
65°	2917.5	2748.1	2525.6	2172.0	1929.3	1649.4	1497.0	1328.1	1243.2	1136.4	1105.1
67.5°	2728.5	2554.8	2364.2	2019.6	1767.3	1497.0	1328.1	1158.7	1020.1	911.8	894.8
70°	2216.0	2079.6	1932.5	1669.1	1448.7	1229.9	1086.5	933.6	795.5	676.0	683.5
72.5°	1681.8	1554.4	1419.5	1252.2	1115.2	968.1	841.2	718.0	603.3	528.9	542.7
75°	1302.6	1217.7	1122.1	1000.5	896.4	760.5	616.0	506.6	429.1	383.9	386.6
77.5°	1071.1	983.0	904.9	793.4	694.6	555.5	416.3	322.9	277.7	257.6	252.2
80°	823.6	759.4	690.4	590.5	481.7	374.4	279.9	236.3	206.6	191.7	185.9
82.5°	575.1	535.3	477.4	405.2	342.5	303.2	262.3	225.7	194.9	181.1	174.7
85°	473.7	452.4	420.6	379.7	342.5	299.0	253.3	216.1	189.6	179.0	173.1
87.5°	461.5	447.1	411.0	367.5	322.9	278.3	232.1	197.5	180.6	173.7	168.3
90°	423.2	406.8	381.3	338.3	298.4	250.7	212.9	192.2	179.5	171.5	165.7
92.5°	369.1	360.0	336.7	305.9	278.3	247.5	220.4	201.8	188.5	179.0	173.1
95°	328.2	317.6	304.3	279.3	256.5	231.5	206.6	189.1	175.2	165.2	160.4
97.5°	269.8	262.3	249.6	233.1	216.1	196.0	178.4	166.7	157.7	152.9	149.8
100°	244.8	240.0	232.6	220.9	207.1	192.8	180.0	173.7	169.9	166.7	165.2
102.5°	226.8	221.4	215.6	203.4	192.8	180.0	171.5	166.2	161.4	156.1	155.1
105°	210.8	206.6	198.6	188.5	177.9	165.7	155.6	152.4	148.2	143.4	142.9
107.5°	198.6	194.4	187.5	176.8	167.3	156.7	147.6	142.9	138.1	135.4	134.9

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

Scaled Data Report

REPORT NUMBER: P1046403
CATALOG NUMBER: FFX-CLB-50-750-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	197.5	194.4	186.9	177.9	170.5	159.8	149.8	148.2	142.9	136.5	135.9
112.5°	246.4	236.3	222.0	207.1	194.4	183.7	171.0	158.3	147.6	141.3	140.2
115°	285.7	275.6	258.1	236.3	216.1	193.3	171.5	155.6	149.8	148.2	150.3
117.5°	268.7	247.5	217.7	204.5	186.9	174.7	166.2	162.5	152.9	155.6	158.3
120°	258.1	243.7	217.7	215.6	207.6	193.8	174.2	169.9	164.6	160.4	159.8
122.5°	414.7	400.9	371.2	326.1	277.2	244.3	232.1	206.6	175.8	152.4	148.7
125°	587.9	565.6	507.1	457.2	392.4	322.9	260.2	206.6	164.6	142.3	139.7
127.5°	599.5	574.6	523.6	456.2	373.9	288.9	224.1	185.3	157.2	142.3	139.7
130°	467.3	451.4	413.7	350.5	293.7	243.2	206.6	175.2	149.8	138.6	137.0
132.5°	413.2	398.8	345.2	292.6	254.9	216.1	185.3	155.6	133.8	126.4	125.3
135°	341.5	325.5	289.9	257.6	229.9	198.6	167.8	142.3	126.9	123.2	122.7
137.5°	291.5	284.1	257.6	234.7	209.8	182.7	157.2	137.5	128.0	124.8	124.3
140°	251.7	250.1	233.7	213.5	188.5	159.8	140.2	128.5	124.8	123.2	122.7
142.5°	222.5	220.4	202.3	179.0	156.7	141.8	134.4	130.6	127.5	123.2	122.1
145°	192.8	189.1	177.9	167.8	160.9	156.1	149.2	137.5	125.3	119.0	118.4
147.5°	219.3	212.9	200.7	186.4	171.5	156.1	141.8	129.6	119.5	115.8	115.2
150°	184.3	183.7	175.8	164.6	153.5	139.7	129.0	121.1	116.8	116.3	116.3
152.5°	142.9	142.9	142.9	140.2	134.9	127.5	119.5	114.7	114.7	116.8	117.4
155°	134.4	134.9	135.4	134.4	130.1	123.2	116.3	114.2	114.7	116.8	117.4
157.5°	128.0	128.0	128.5	127.5	125.3	120.5	115.8	113.6	114.2	115.2	115.8
160°	120.5	120.5	121.1	121.1	119.0	117.4	115.2	113.6	113.6	114.2	114.7
162.5°	117.9	117.9	117.9	117.9	117.4	117.4	117.4	117.4	116.8	116.8	116.8
165°	119.0	119.0	117.4	116.8	117.9	119.5	122.1	122.7	120.0	119.5	119.5
167.5°	124.3	124.3	122.7	121.6	123.2	124.8	128.5	129.6	127.5	125.3	125.3
170°	127.5	127.5	127.5	128.0	128.5	130.1	132.2	133.3	132.8	132.2	132.2
172.5°	129.6	129.6	130.6	131.7	133.3	134.4	135.4	136.5	137.5	137.5	138.1
175°	133.8	134.4	135.4	135.9	137.0	138.1	139.1	140.2	140.7	140.7	140.7
177.5°	138.1	138.1	138.1	138.6	139.1	139.7	140.2	140.7	140.7	141.3	141.8
180°	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7

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

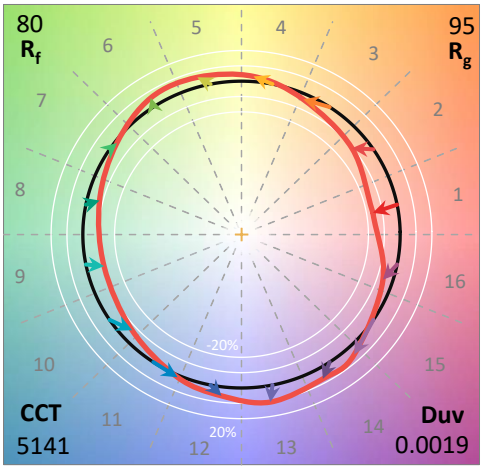
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

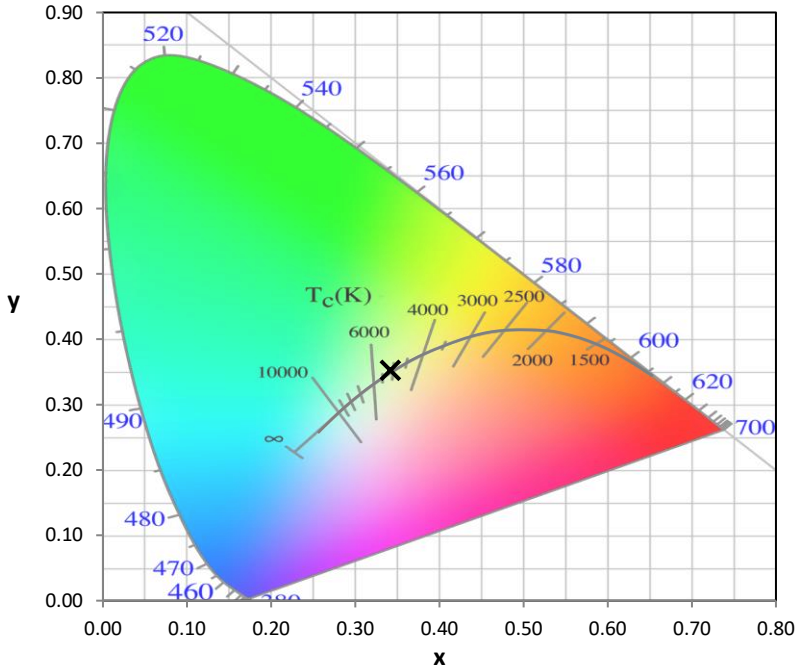
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

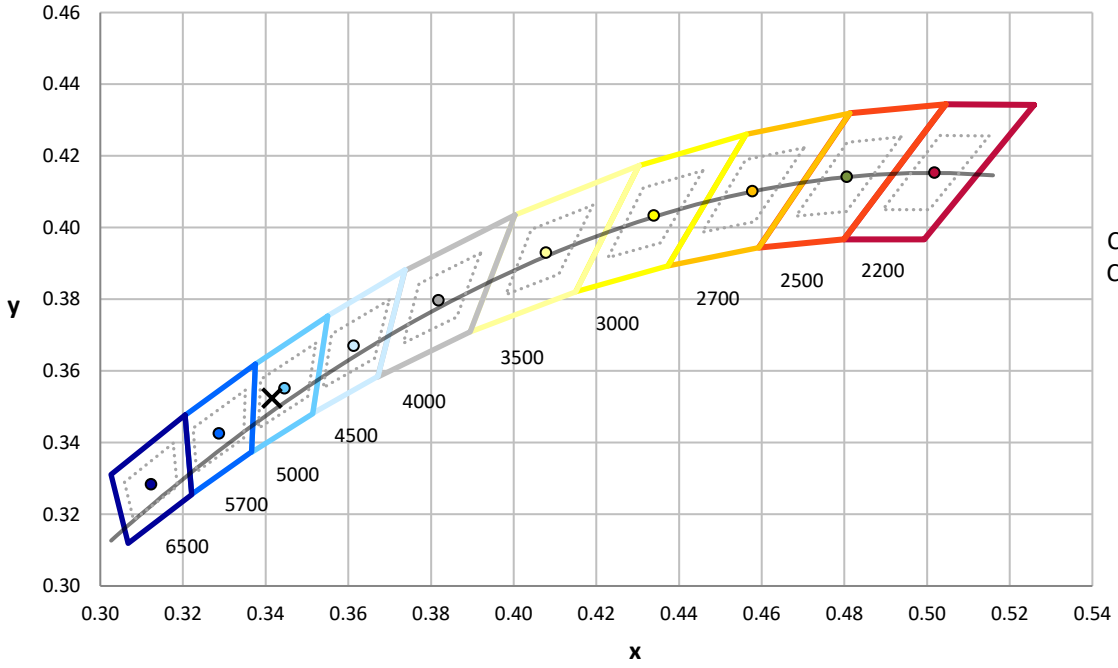
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

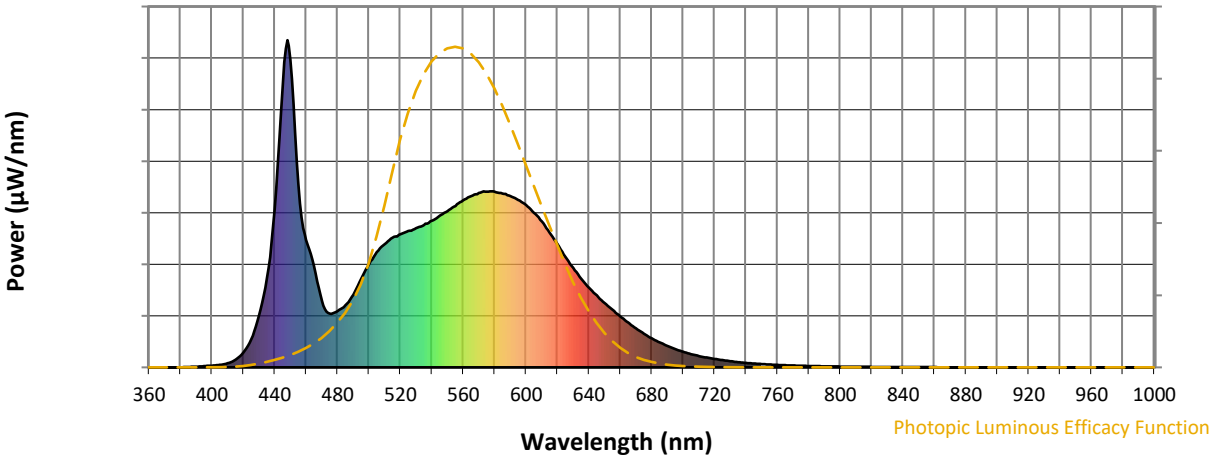


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

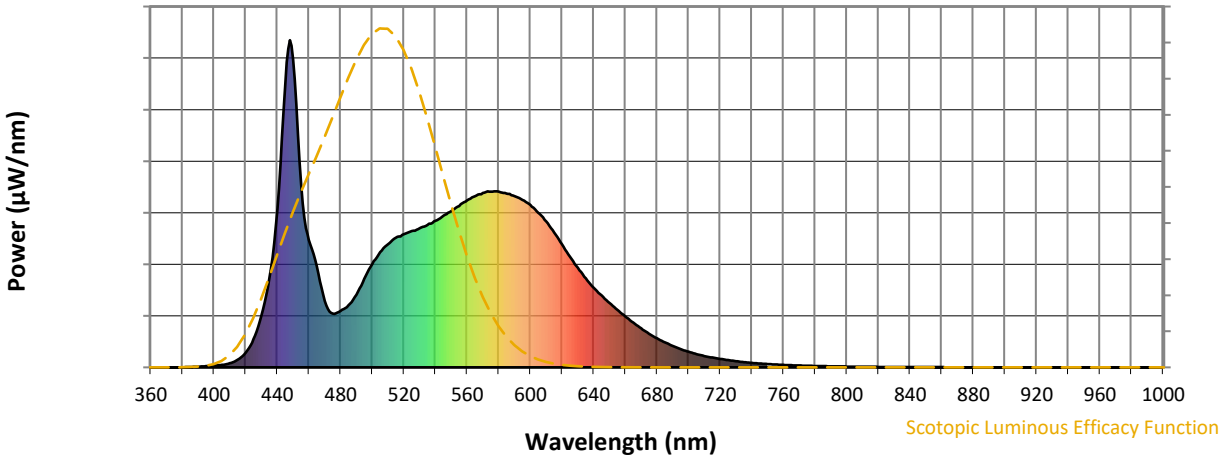


Photopic Lumens: NR

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

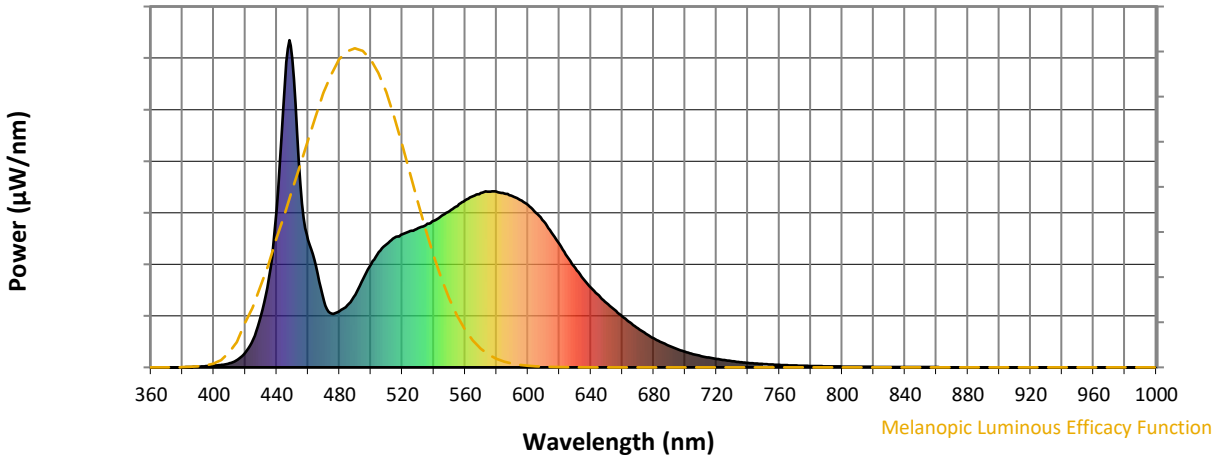


Scotopic Lumens: NR **S/P: 1.92**

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			

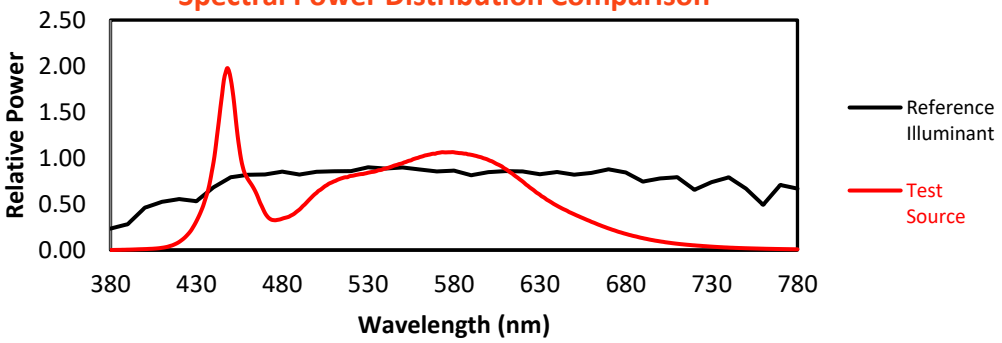
REPORT NUMBER: SP1-2501-332-10

TM-30-18

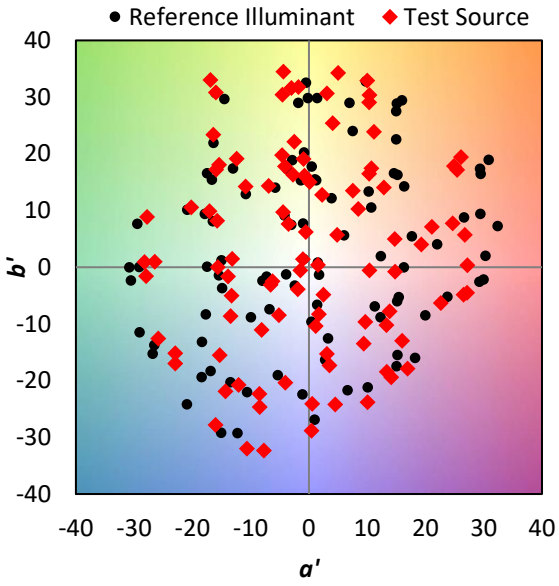
Summary

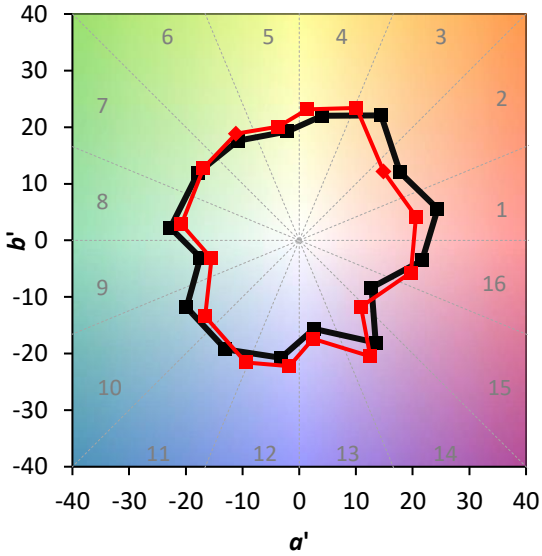
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

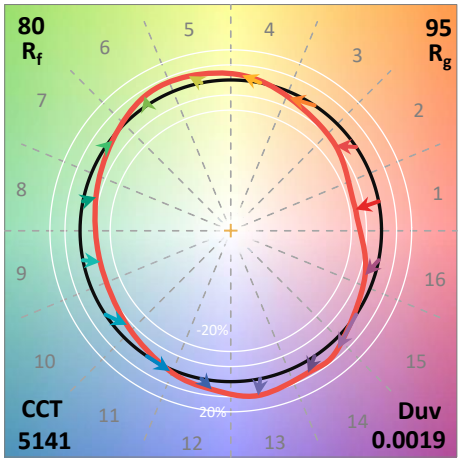
Spectral Power Distribution Comparison

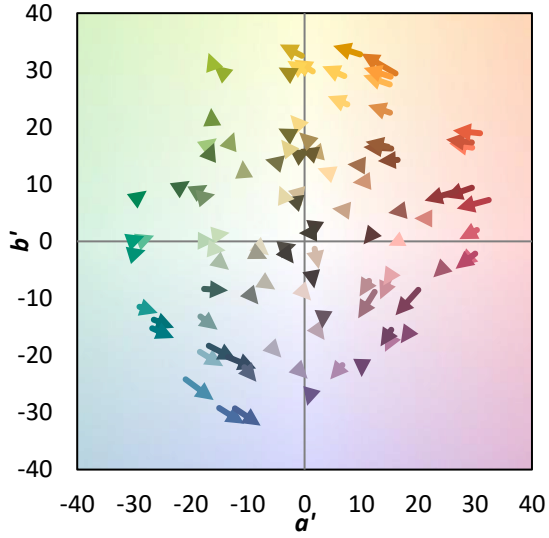


Color Vector Graphics







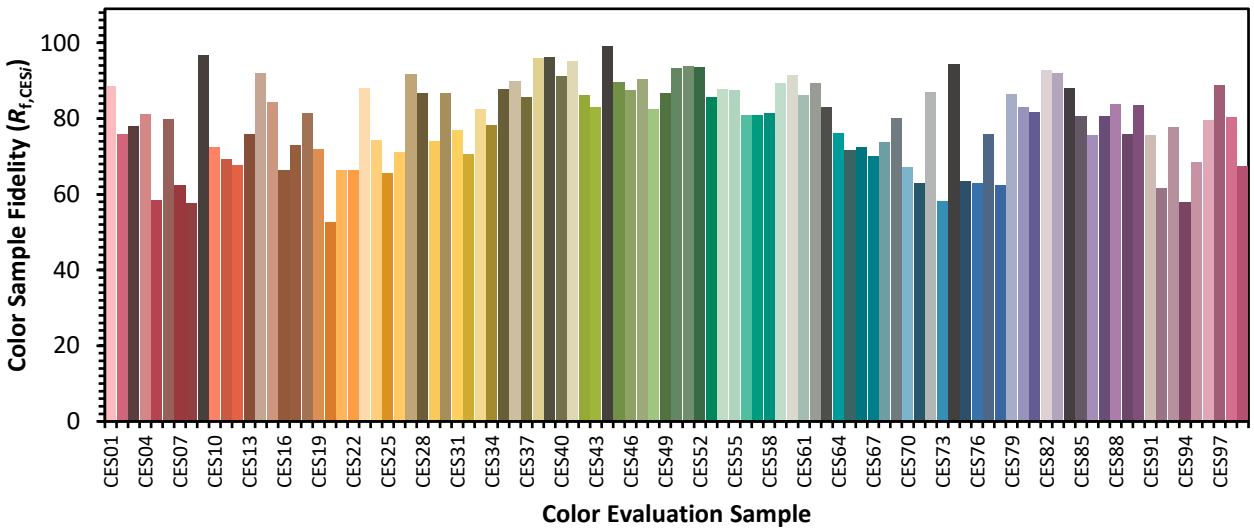


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

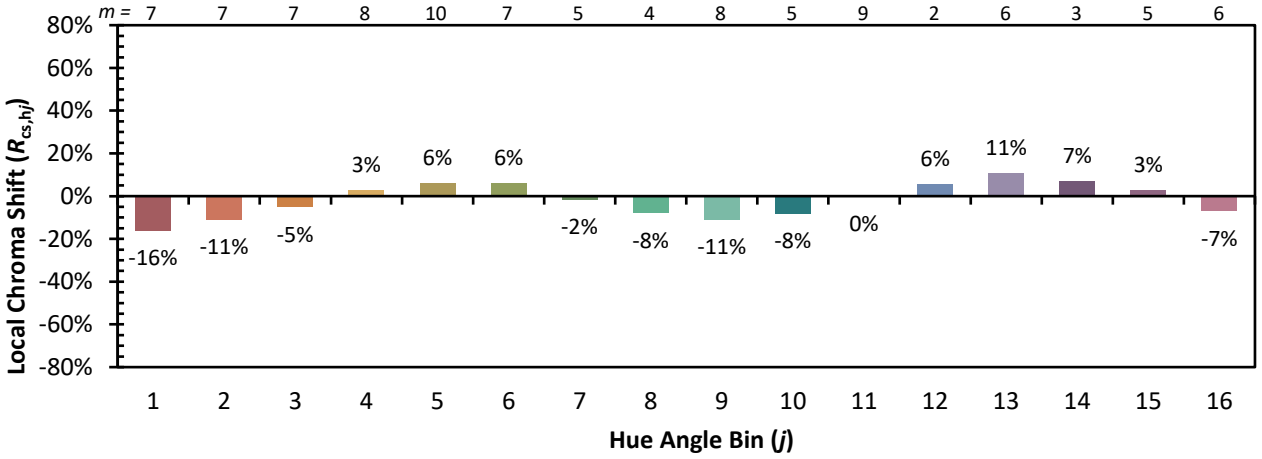
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57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

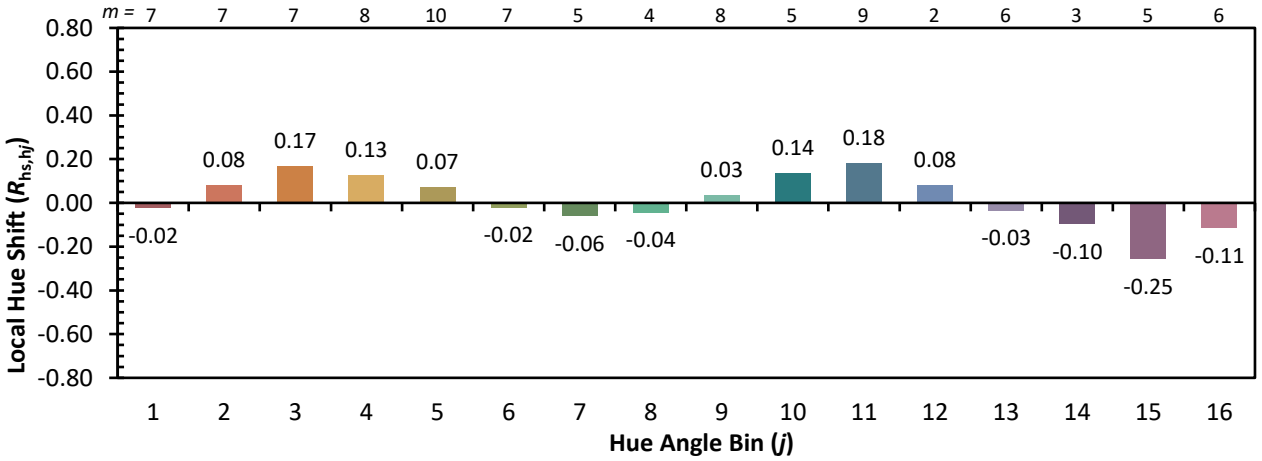


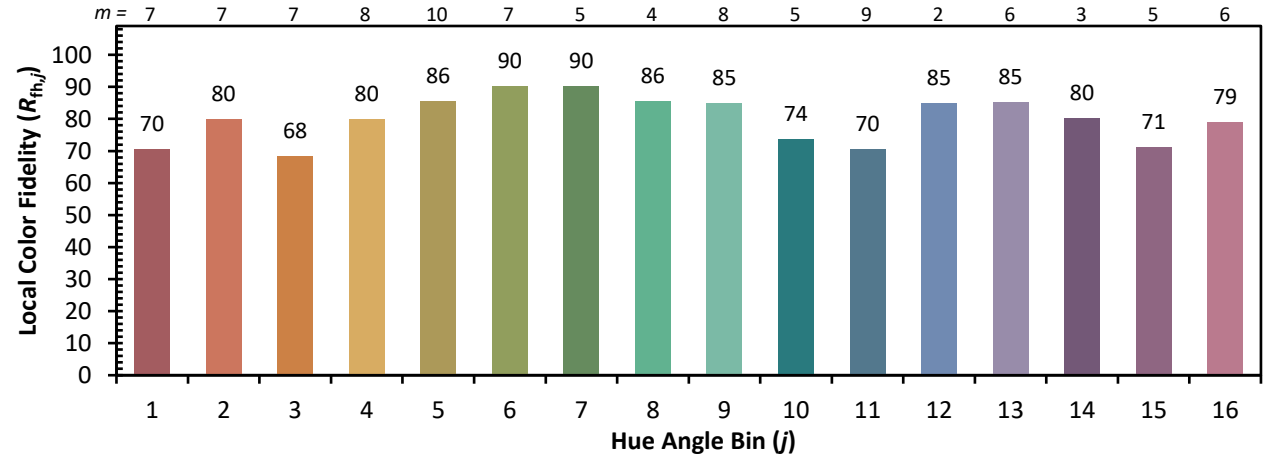
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Color Rendition by Hue-Angle Bin



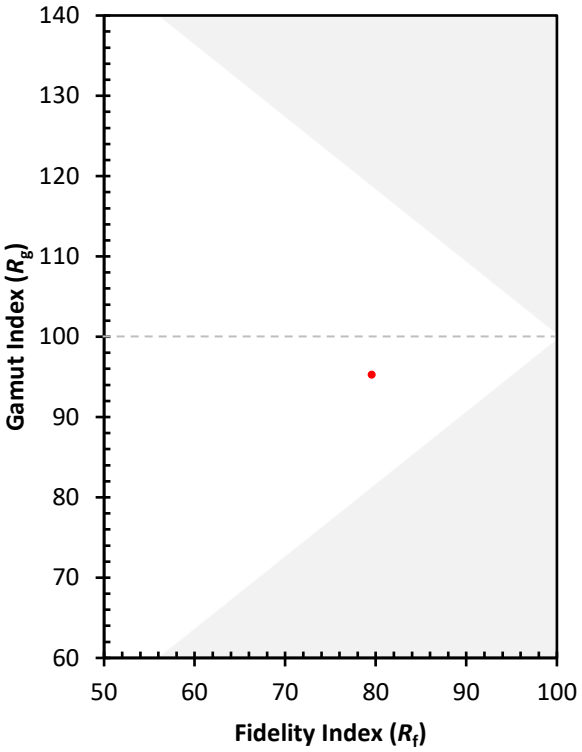


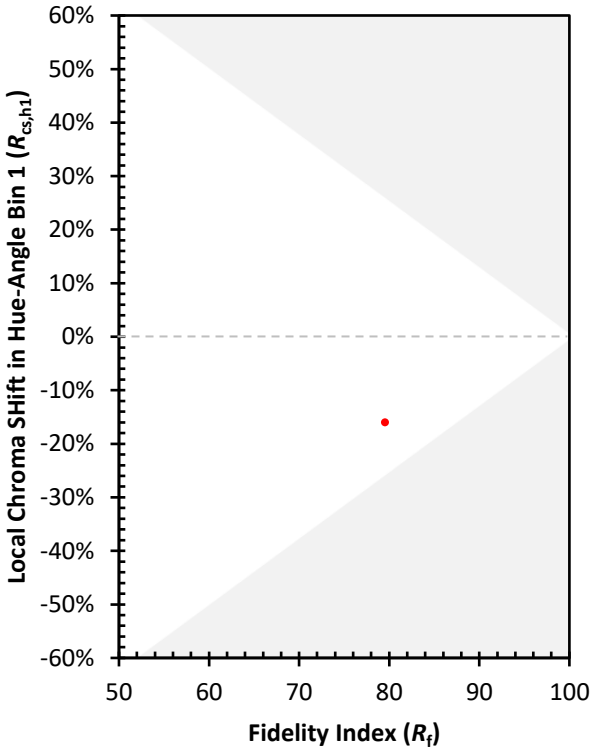


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Measure Comparisons





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