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: P981481

Luminaire Tested: **FFX-CLB-70-740-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981481
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-740-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11134.5 lumens
Efficiency:	N/A
Efficacy:	156.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U4 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

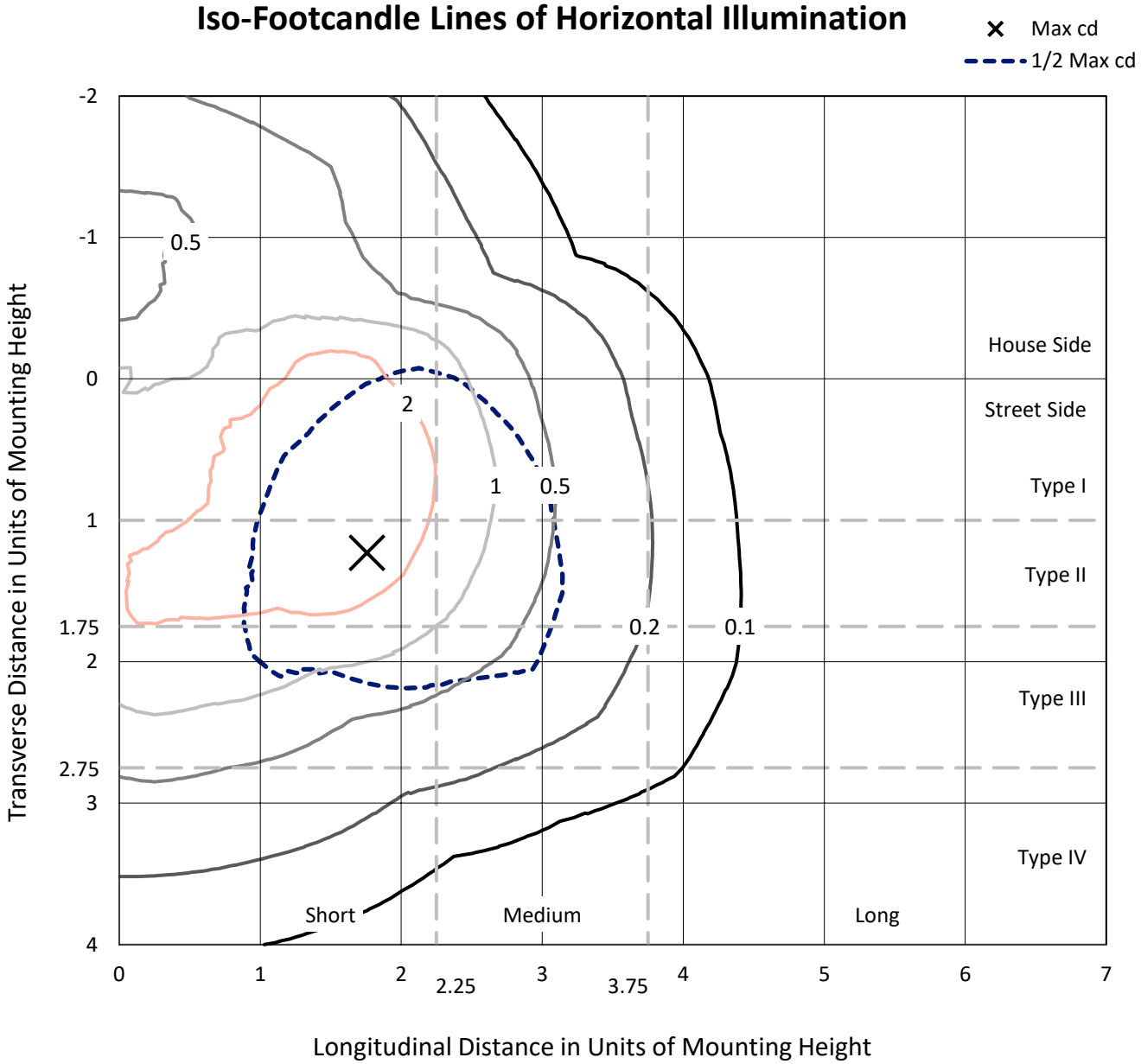


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Iso-Footcandle Lines of Horizontal Illumination



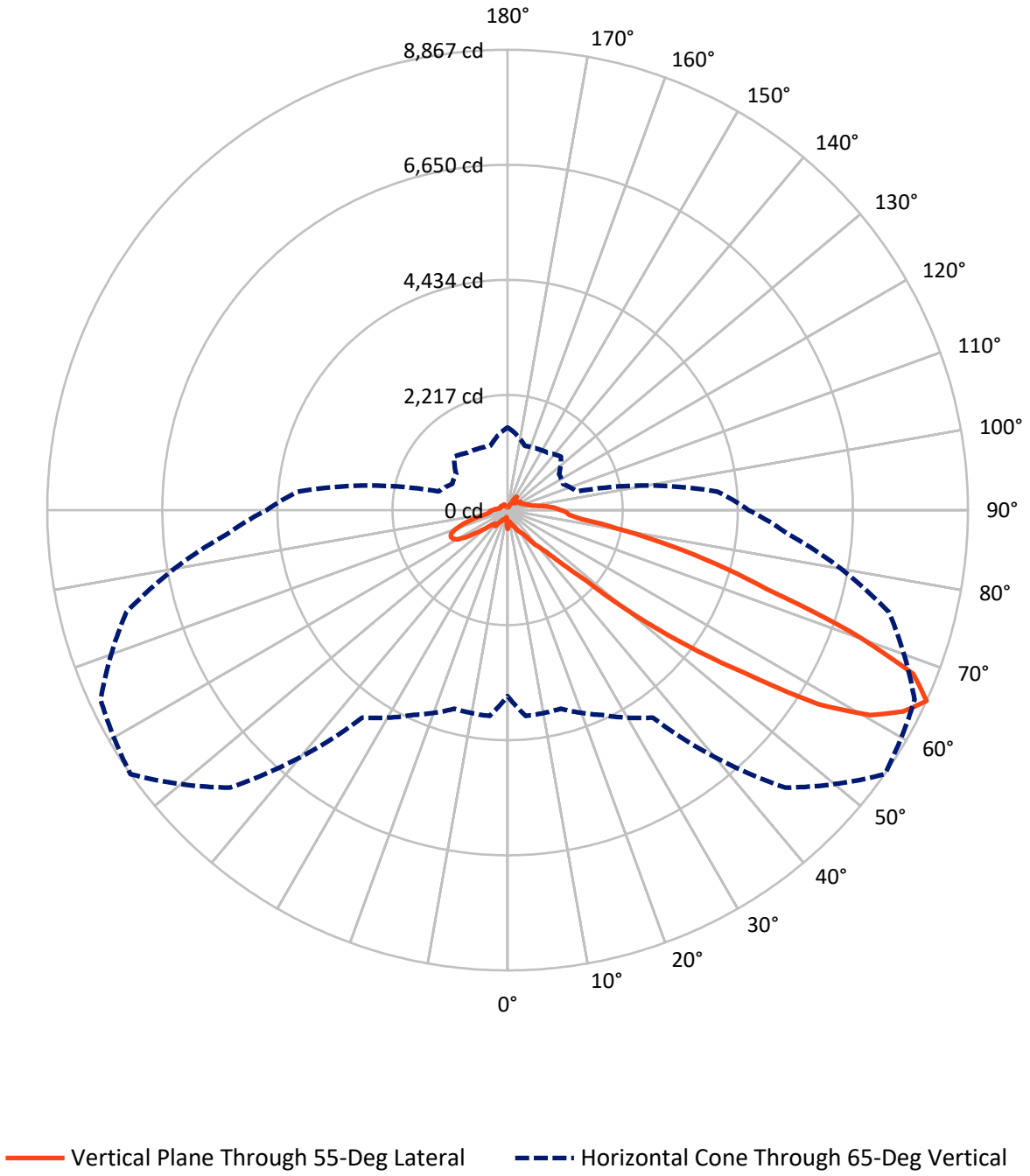
Based on 15 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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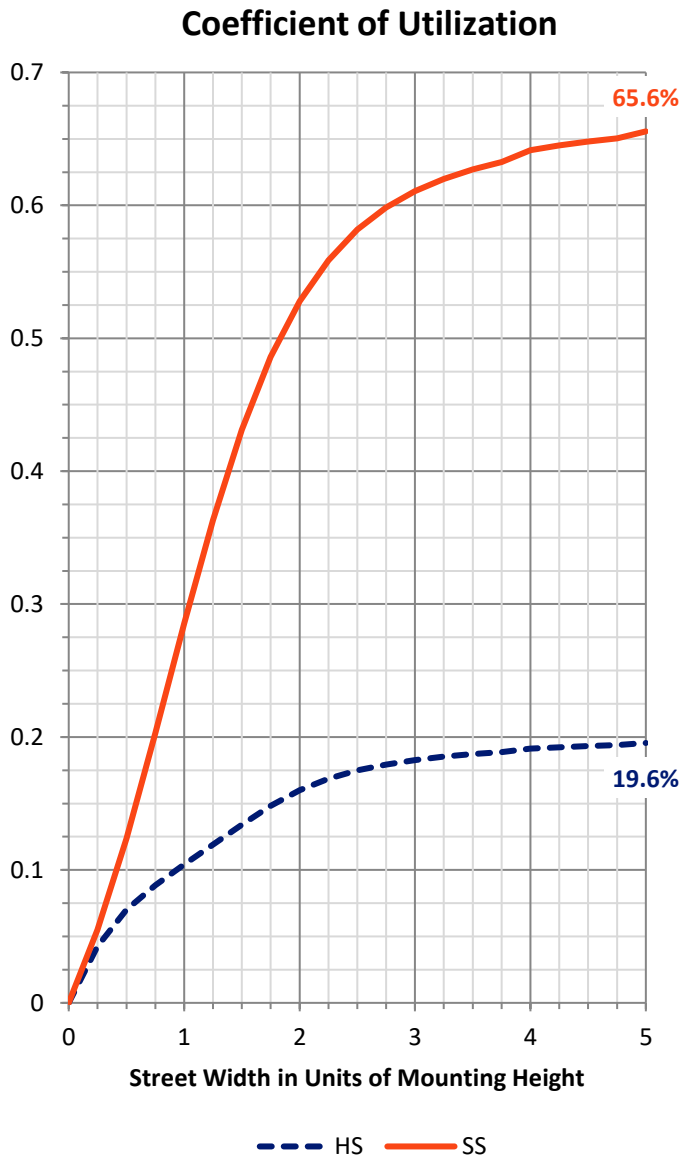
REPORT NUMBER: P981481
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.0	441.4	2703.4
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	7547.9	883.3	8431.1
	% Fixture	67.8	7.9	75.7
Total	Lumens	9809.8	1324.7	11134.5
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	0.2
10°-20°	68.1	0.6
20°-30°	139.2	1.3
30°-40°	301.8	2.7
40°-50°	732.5	6.6
50°-60°	2286.9	20.5
60°-70°	3633.8	32.6
70°-80°	1936.5	17.4
80°-90°	690.0	6.2
90°-100°	419.8	3.8
100°-110°	248.5	2.2
110°-120°	194.0	1.7
120°-130°	161.8	1.5
130°-140°	118.3	1.1
140°-150°	108.8	1.0
150°-160°	49.1	0.4
160°-170°	18.8	0.2
170°-180°	5.5	0.0
0°-90°	9809.8	88.1
0°-180°	11134.5	100.0



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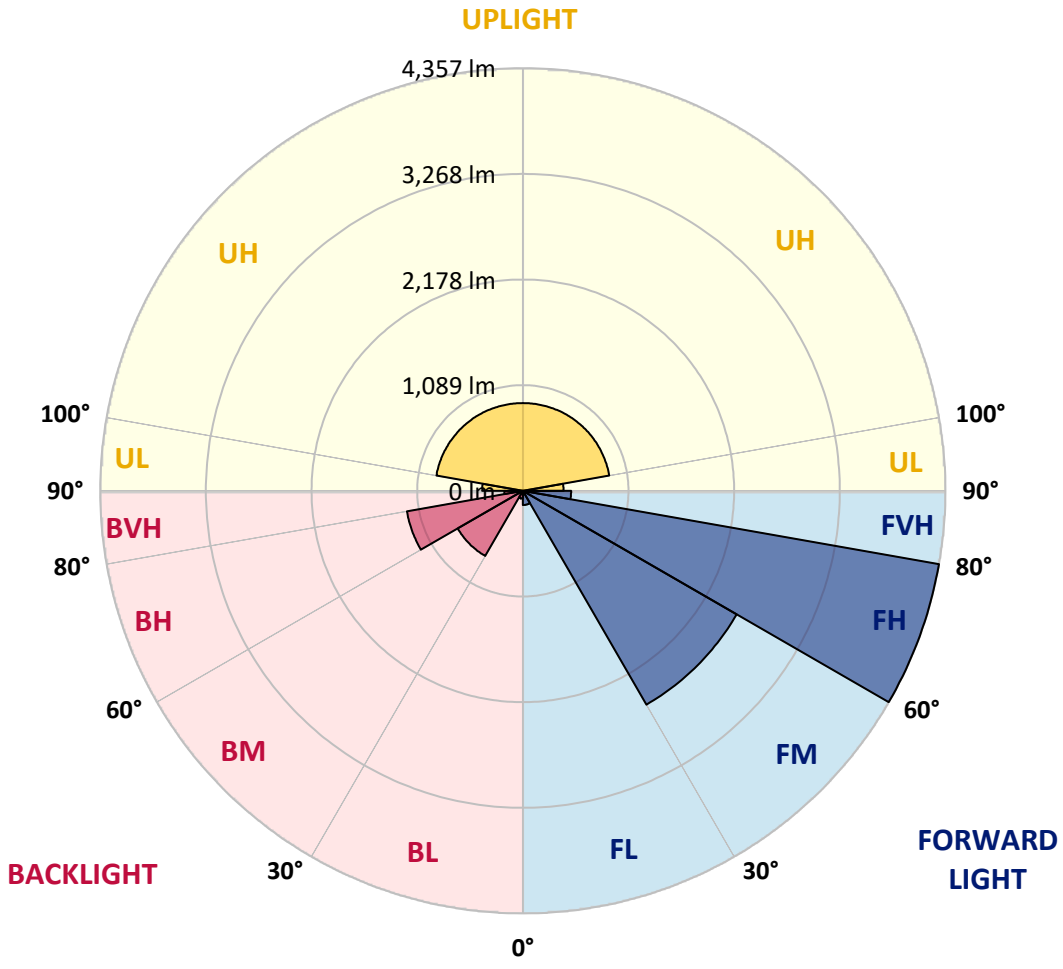
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	147.1	1.3			
FM	(30°-60°)	2546.0	22.9			
FH	(60°-80°)	4356.9	39.1			G2/5000
FVH	(80°-90°)	497.9	4.5			G3/500
BL	(0°-30°)	81.0	0.7	B0/110		
BM	(30°-60°)	775.3	7.0	B1/1000		
BH	(60°-80°)	1213.5	10.9	B3/2500		G3/2500
BVH	(80°-90°)	192.1	1.7			G2/225
UL	(90°-100°)	419.8	3.8		U3/500	
UH	(100°-180°)	904.9	8.1		U4/1000	

BUG Rating: B3-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	361.3	361.3	361.3	361.3	361.3	361.3	*361.3*	361.3	361.3	361.3	361.3
2.5°	215.7	217.2	241.3	260.2	283.6	276.8	*276.8*	328.1	362.0	411.8	407.3
5°	230.8	221.0	225.5	242.1	273.8	288.9	*272.3*	215.7	178.7	193.8	211.9
7.5°	252.7	250.4	245.1	229.3	217.2	249.6	*294.9*	262.5	198.4	166.7	159.9
10°	258.7	259.4	257.9	259.4	265.5	251.1	*225.5*	205.1	199.1	196.1	193.8
12.5°	313.0	312.2	315.3	311.5	297.2	279.8	*285.1*	270.0	240.6	220.2	214.9
15°	365.0	363.5	362.8	348.4	325.1	297.2	*283.6*	290.4	271.5	248.1	237.6
17.5°	386.2	386.2	371.1	350.7	336.4	316.8	*306.2*	298.7	284.3	269.2	256.4
20°	377.9	377.1	362.0	353.7	355.2	346.2	*337.1*	325.8	311.5	287.4	271.5
22.5°	373.3	373.3	368.0	365.8	378.6	375.6	*373.3*	359.0	340.1	304.7	284.3
25°	402.7	400.5	393.7	393.7	405.8	415.6	*419.3*	408.0	377.1	323.6	304.7
27.5°	431.4	430.6	421.6	423.9	431.4	451.0	*457.0*	451.8	409.5	339.4	322.8
30°	466.1	460.8	453.3	466.9	465.3	492.5	*500.8*	506.8	453.3	371.8	352.2
32.5°	503.1	500.0	494.0	511.3	517.4	542.3	*549.1*	579.2	512.9	429.9	409.5
35°	565.7	563.4	579.2	613.2	612.4	659.2	*641.1*	686.3	623.7	534.7	514.4
37.5°	847.7	834.9	816.8	784.4	782.1	847.0	*826.6*	862.1	773.8	648.6	626.0
40°	882.4	880.2	871.9	834.9	813.8	924.6	*938.2*	1043.1	897.5	754.2	710.5
42.5°	862.1	865.1	975.9	999.3	956.3	1092.8	*1115.5*	1299.5	1037.0	914.8	834.9
45°	1039.3	1043.8	1080.0	1096.6	1093.6	1436.8	*1492.6*	1718.1	1281.4	1140.4	992.5
47.5°	1190.1	1174.3	1239.9	1366.6	1453.3	1841.0	*2020.5*	2366.7	1721.8	1513.7	1239.9
50°	1635.1	1631.3	1789.7	1928.5	2014.5	2648.8	*3201.6*	3581.7	2523.6	2194.7	1730.1
52.5°	1936.8	2065.0	2216.6	2537.9	2615.6	3604.3	*4352.5*	4657.2	3487.4	2882.6	2362.2
55°	2243.0	2427.8	2597.5	3097.5	3355.4	4682.8	*5534.3*	5618.0	4580.3	3504.8	2980.6
57.5°	2812.4	3123.9	3233.3	3632.2	4009.3	5925.8	*7054.8*	6965.8	5707.0	4226.5	3671.4
60°	3327.5	3702.4	3670.7	4061.4	4546.3	6938.6	*8020.2*	7926.6	6738.0	4867.6	4202.4
62.5°	3500.2	3878.1	3835.1	4260.5	4880.4	7481.7	*8546.6*	8386.7	7413.0	5278.6	4496.5
65°	*3580.9*	*3982.2*	*3961.1*	*4357.8*	*4880.4*	*7560.1*	*8867.1*	*8648.4*	*7601.6*	*5437.0*	*4638.3*
67.5°	3510.0	3897.0	3910.5	4262.7	4593.1	6993.7	*8429.7*	8132.5	7129.5	5056.9	4384.9
70°	3068.1	3338.8	3304.9	3623.9	3656.4	5598.4	*6996.0*	6672.4	5792.3	4216.7	3628.5
72.5°	2534.9	2600.5	2572.6	2773.9	2811.7	4100.6	*5228.9*	5045.6	4325.3	3137.5	2772.4
75°	2021.3	2010.7	2068.0	2114.8	2075.6	3010.0	*4140.6*	3932.4	3200.1	2362.9	2133.6
77.5°	1398.3	1317.6	1468.4	1482.8	1420.9	2001.6	*3054.5*	2975.3	2293.5	1741.4	1572.5
80°	785.9	794.9	902.8	966.9	944.3	1273.8	*2125.3*	2073.3	1566.5	1217.3	1081.5
82.5°	606.4	633.5	684.1	732.3	700.7	974.4	*1437.5*	1441.3	1145.6	889.2	812.3
85°	666.7	681.0	687.8	689.3	664.5	905.8	*1191.6*	1175.8	972.9	744.4	720.3
87.5°	650.1	665.2	667.5	668.2	646.3	862.8	*1128.3*	1103.4	927.7	715.0	678.0
90°	557.4	583.0	586.0	605.6	580.0	770.8	*993.3*	968.4	836.4	644.8	610.1
92.5°	478.9	492.5	506.8	530.2	503.1	671.2	*889.2*	858.3	748.9	583.0	535.5
95°	438.2	445.7	457.8	466.9	435.2	570.2	*743.6*	711.2	607.9	469.1	426.9
97.5°	352.2	359.0	364.3	375.6	353.7	451.8	*577.0*	546.8	476.7	373.3	341.7
100°	300.9	305.5	311.5	319.0	300.9	378.6	*473.6*	460.1	396.7	315.3	294.9
102.5°	275.3	279.1	289.6	289.6	278.3	346.2	*423.1*	412.5	356.7	285.8	272.3
105°	265.5	266.2	275.3	271.5	264.0	322.8	*394.4*	380.9	334.1	271.5	255.7
107.5°	252.7	253.4	264.7	258.7	252.7	299.4	*357.5*	351.5	309.2	253.4	239.8
110°	239.8	242.1	256.4	251.1	247.4	281.3	*334.9*	323.6	295.6	245.1	233.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	230.0	231.5	245.1	241.3	238.3	269.2	*310.7*	310.7	288.9	245.1	230.0
115°	221.7	224.8	236.1	228.5	223.2	253.4	*286.6*	288.1	270.0	233.8	218.7
117.5°	207.4	214.2	220.2	223.2	217.2	242.9	*272.3*	270.8	261.0	225.5	214.9
120°	236.1	230.8	235.3	240.6	230.8	251.1	*276.0*	276.0	266.2	221.7	212.7
122.5°	246.6	239.1	243.6	238.3	237.6	264.0	*294.9*	297.2	276.8	228.5	205.9
125°	218.7	215.7	210.4	208.9	214.9	239.8	*267.7*	277.5	255.7	218.7	192.3
127.5°	187.0	183.3	176.5	180.3	191.6	216.5	*230.8*	236.1	227.0	202.9	183.3
130°	172.7	172.0	177.2	184.0	193.1	214.2	*218.7*	226.3	226.3	197.6	186.3
132.5°	157.6	158.4	175.0	198.4	205.1	209.7	*199.9*	214.2	221.0	201.4	188.6
135°	155.4	156.1	165.2	184.0	184.8	187.8	*188.6*	206.7	211.2	192.3	178.0
137.5°	169.7	169.7	162.9	166.7	175.0	197.6	*205.1*	219.5	215.7	181.8	160.6
140°	187.0	183.3	162.2	162.9	177.2	205.1	*214.9*	224.0	219.5	178.0	153.1
142.5°	154.6	156.1	159.9	174.2	190.8	254.2	*245.9*	268.5	259.4	188.6	149.3
145°	241.3	242.1	237.6	243.6	254.2	337.9	*312.2*	348.4	359.0	246.6	177.2
147.5°	264.0	267.0	258.7	253.4	283.6	309.2	*280.6*	310.7	331.1	258.7	190.1
150°	205.9	205.1	199.9	207.4	227.8	226.3	*211.2*	221.7	230.0	197.6	162.9
152.5°	146.3	144.1	141.0	141.8	165.9	159.9	*155.4*	164.4	164.4	151.6	130.5
155°	121.4	121.4	119.9	123.7	137.3	126.7	*122.9*	121.4	119.9	116.1	107.9
157.5°	102.6	104.8	102.6	107.1	116.1	106.3	*104.1*	101.8	102.6	102.6	100.3
160°	85.2	85.2	83.7	91.3	94.3	86.7	*83.0*	81.5	81.5	86.0	86.0
162.5°	71.6	71.6	72.4	75.4	77.7	72.4	*70.1*	70.1	72.4	79.2	79.2
165°	61.8	61.8	62.6	64.9	66.4	63.4	*61.8*	62.6	68.6	74.7	74.7
167.5°	56.6	56.6	56.6	57.3	58.1	56.6	*56.6*	59.6	64.9	68.6	68.6
170°	53.5	53.5	52.8	53.5	53.5	53.5	*56.6*	59.6	61.8	61.8	61.8
172.5°	54.3	54.3	53.5	54.3	54.3	53.5	*57.3*	61.1	59.6	58.8	58.8
175°	55.8	55.8	55.8	56.6	56.6	55.1	*54.3*	55.8	57.3	57.3	56.6
177.5°	55.8	55.8	55.1	55.8	55.1	53.5	*52.8*	52.0	52.0	51.3	51.3
180°	52.0	52.0	52.0	52.0	52.0	52.0	*52.0*	52.0	52.0	52.0	52.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3
2.5°	368.8	318.3	280.6	310.0	374.8	407.3	374.8	285.1	200.6	175.7
5°	221.0	214.9	193.8	189.3	197.6	190.1	211.2	199.9	158.4	159.9
7.5°	165.2	199.9	193.1	138.0	129.0	120.7	127.5	145.6	150.1	140.3
10°	191.6	172.7	150.8	140.3	153.1	165.2	156.9	136.5	117.7	112.4
12.5°	211.2	209.7	211.9	190.1	156.1	144.1	139.5	150.1	182.5	190.1
15°	227.0	209.7	193.8	189.3	166.7	154.6	148.6	145.6	139.5	135.0
17.5°	242.9	214.2	196.8	179.5	168.2	156.9	144.1	137.3	136.5	137.3
20°	253.4	227.0	206.7	187.0	172.7	157.6	144.8	138.8	138.8	138.8
22.5°	266.2	240.6	218.7	193.8	177.2	160.6	150.1	144.1	143.3	143.3
25°	287.4	258.7	233.0	205.9	187.8	172.7	158.4	150.8	148.6	147.8
27.5°	311.5	279.8	248.9	221.0	202.1	185.5	166.7	155.4	152.3	151.6
30°	342.4	306.2	267.0	237.6	214.2	198.4	175.7	162.2	156.1	155.4
32.5°	392.9	345.4	294.1	261.7	233.8	212.7	187.8	171.2	161.4	159.1
35°	490.2	432.2	355.2	308.5	264.0	230.8	198.4	176.5	166.7	165.2
37.5°	598.8	510.6	435.9	381.6	327.3	271.5	214.9	184.8	172.7	170.4
40°	645.6	561.9	482.7	397.5	385.4	341.7	264.0	205.1	181.0	177.2
42.5°	748.2	629.0	521.9	351.5	379.4	377.1	325.8	251.1	203.6	194.6
45°	880.9	715.7	580.7	375.6	382.4	368.8	334.1	290.4	247.4	237.6
47.5°	1097.4	800.2	599.6	422.4	429.9	397.5	349.9	306.2	275.3	271.5
50°	1567.2	1048.3	669.0	511.3	535.5	460.8	402.0	364.3	327.3	320.5
52.5°	2130.6	1242.2	740.6	638.1	724.8	617.7	528.7	459.3	457.0	448.0
55°	2724.2	1316.8	835.7	777.6	912.6	819.8	733.1	669.7	702.2	705.2
57.5°	3390.9	1396.8	972.9	960.1	1140.4	992.5	919.4	936.7	1166.7	1256.5
60°	3835.1	1462.4	1091.3	1110.9	1348.5	1204.5	1149.4	1187.9	1578.5	1742.2
62.5°	4032.7	1429.2	1149.4	1183.3	1438.3	1333.4	1324.4	1344.7	1675.8	1828.9
65°	*4059.9*	*1380.2*	*1181.1*	*1210.5*	*1454.1*	*1347.0*	*1308.5*	*1279.9*	*1500.1*	*1589.9*
67.5°	3726.5	1276.1	1156.2	1187.1	1382.4	1254.2	1158.5	1093.6	1221.1	1230.1
70°	3032.6	1139.6	1071.7	1083.0	1181.1	1049.8	959.3	903.5	932.9	920.9
72.5°	2351.6	1004.6	954.8	928.4	957.8	845.5	738.4	709.7	737.6	724.8
75°	1786.7	897.5	842.4	753.4	801.7	650.9	531.7	506.1	518.1	500.8
77.5°	1313.8	723.3	659.2	557.4	623.7	472.1	359.0	332.6	337.1	320.5
80°	958.6	534.7	481.9	399.7	449.5	335.6	259.4	254.9	254.2	243.6
82.5°	740.6	424.6	385.4	343.9	352.2	296.4	245.9	238.3	238.3	222.5
85°	687.1	411.0	371.1	341.7	343.9	287.4	233.8	229.3	231.5	214.9
87.5°	641.8	402.0	369.6	334.1	316.8	260.2	210.4	215.7	217.2	202.9
90°	550.6	357.5	328.1	294.1	273.8	221.0	188.6	198.4	199.9	187.0
92.5°	482.7	307.0	282.1	255.7	246.6	207.4	181.0	188.6	188.6	177.2
95°	384.6	251.1	239.8	227.0	224.8	193.8	168.9	172.7	171.2	161.4
97.5°	313.0	218.0	208.2	196.1	188.6	165.9	148.6	152.3	153.1	146.3
100°	275.3	201.4	187.8	174.2	166.7	149.3	135.8	142.5	147.1	141.0
102.5°	257.2	192.3	177.2	162.9	156.9	141.0	128.2	134.2	140.3	135.0
105°	244.4	185.5	169.7	156.9	149.3	133.5	120.7	122.2	129.7	126.7
107.5°	227.8	185.5	165.2	152.3	143.3	129.0	113.9	112.4	116.9	116.1
110°	221.7	185.5	162.2	149.3	139.5	126.7	113.1	107.1	109.4	109.4

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

Scaled Data Report

REPORT NUMBER: P981481
CATALOG NUMBER: FFX-CLB-70-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	216.5	184.0	159.1	144.1	135.8	125.2	111.6	102.6	104.8	106.3
115°	204.4	169.7	150.1	134.2	126.0	114.6	105.6	98.8	99.6	101.1
117.5°	197.6	156.9	145.6	131.2	125.2	118.4	110.1	97.3	97.3	98.8
120°	197.6	154.6	149.3	144.1	141.0	129.7	116.1	97.3	95.0	95.0
122.5°	194.6	172.0	162.9	150.8	142.5	127.5	110.9	95.0	93.5	93.5
125°	178.7	164.4	150.1	135.8	126.0	113.9	104.1	95.8	92.8	92.8
127.5°	170.4	147.8	134.2	122.9	116.1	110.1	104.1	95.8	92.0	91.3
130°	172.7	149.3	132.0	122.9	117.7	111.6	104.8	94.3	88.2	87.5
132.5°	174.2	144.1	127.5	119.9	116.1	111.6	102.6	89.0	82.2	82.2
135°	157.6	129.7	122.2	116.9	114.6	110.9	97.3	84.5	79.2	78.4
137.5°	143.3	126.0	120.7	115.4	111.6	106.3	95.8	83.0	76.2	75.4
140°	137.3	122.9	115.4	105.6	101.1	90.5	83.0	75.4	73.2	72.4
142.5°	130.5	115.4	106.3	98.0	95.8	92.0	87.5	75.4	67.9	67.9
145°	156.1	138.8	128.2	119.9	109.4	101.8	87.5	72.4	62.6	61.1
147.5°	163.7	147.8	137.3	126.0	106.3	89.7	73.9	63.4	59.6	58.1
150°	143.3	129.7	118.4	106.3	89.0	77.7	67.1	60.3	58.8	58.8
152.5°	113.9	106.3	94.3	86.0	74.7	67.9	61.8	58.1	56.6	56.6
155°	94.3	88.2	81.5	74.7	68.6	64.1	60.3	57.3	55.8	55.8
157.5°	91.3	82.2	76.2	70.1	66.4	61.8	58.8	55.8	55.1	54.3
160°	83.0	72.4	67.1	63.4	62.6	61.1	58.8	56.6	55.8	55.1
162.5°	76.9	66.4	62.6	60.3	62.6	64.1	62.6	59.6	57.3	56.6
165°	72.4	62.6	59.6	59.6	64.1	66.4	62.6	59.6	59.6	58.8
167.5°	67.1	64.1	60.3	59.6	63.4	67.9	68.6	63.4	61.1	60.3
170°	62.6	63.4	63.4	61.1	61.8	65.6	67.1	65.6	62.6	61.8
172.5°	59.6	61.1	64.1	62.6	62.6	64.1	65.6	64.1	61.8	61.1
175°	56.6	57.3	55.8	56.6	58.8	61.1	60.3	59.6	58.8	58.8
177.5°	51.3	51.3	52.0	52.0	52.8	55.1	55.8	55.8	57.3	57.3
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

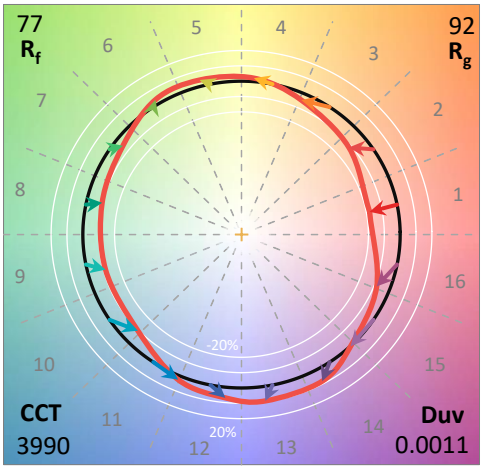
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

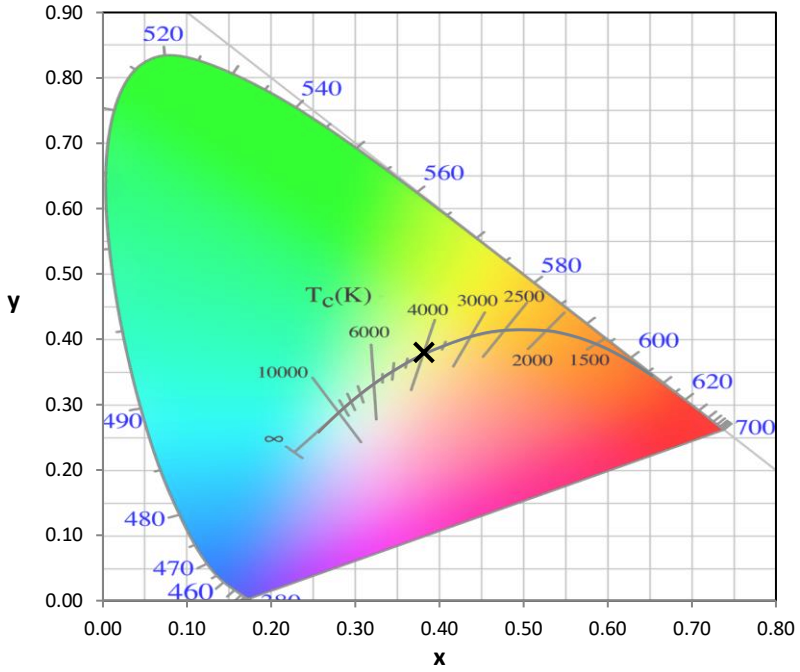
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

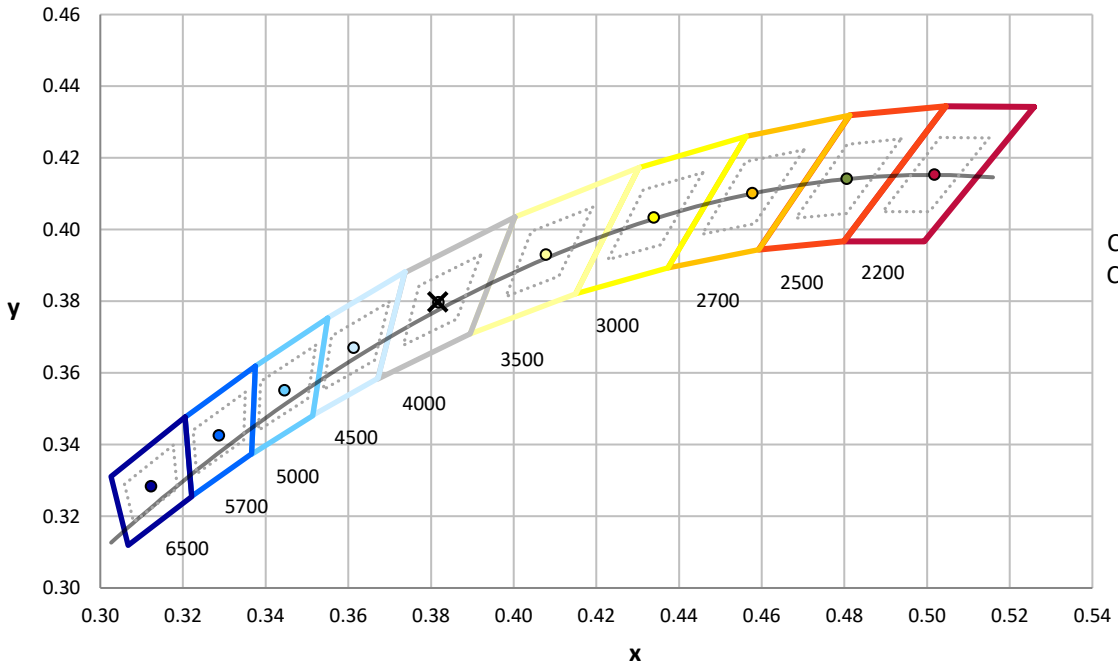
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

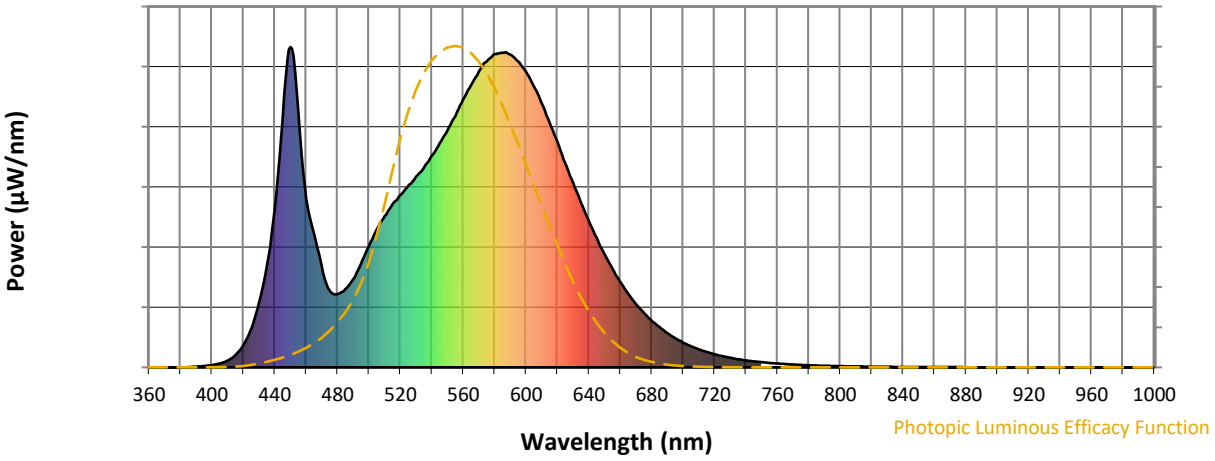


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

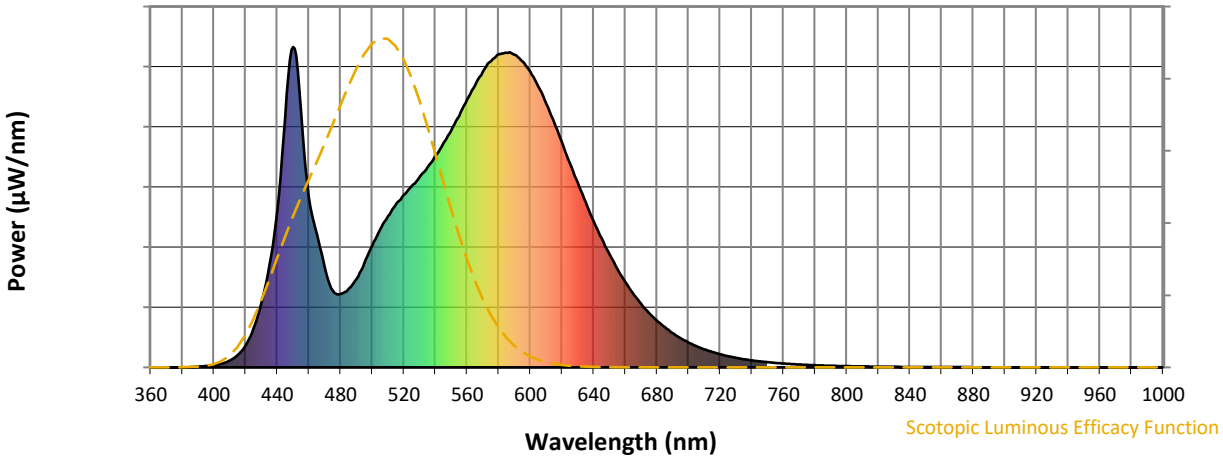


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

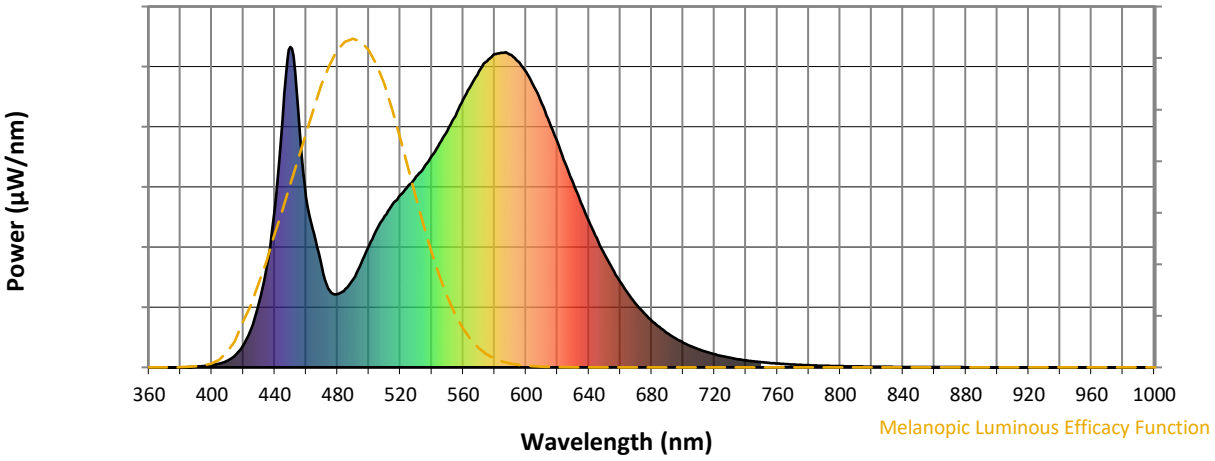


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

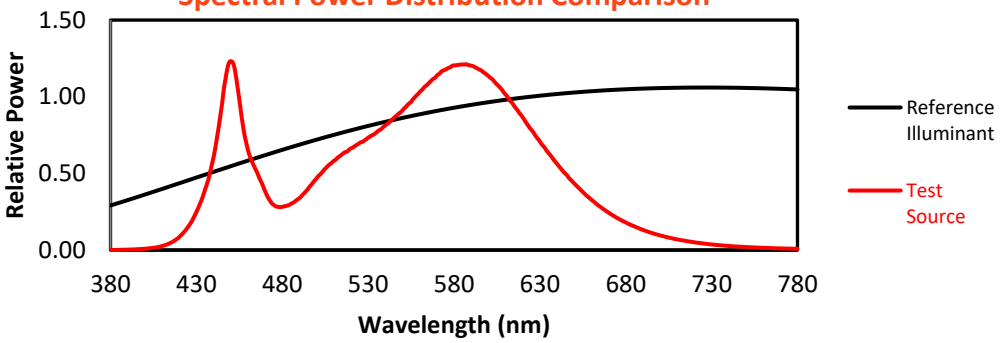
REPORT NUMBER: SP1-2501-332-1

TM-30-18

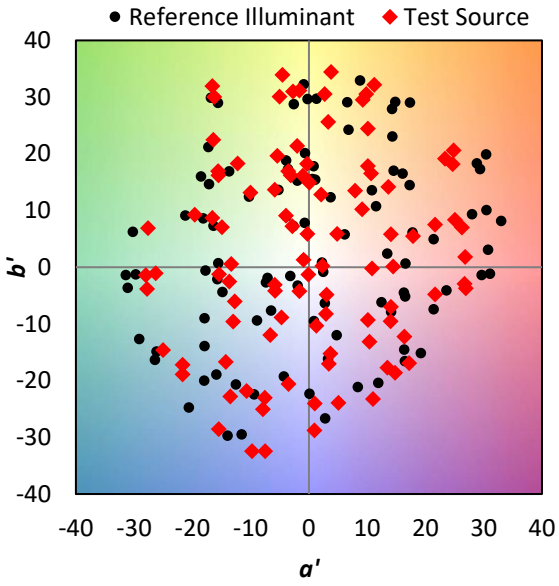
Summary

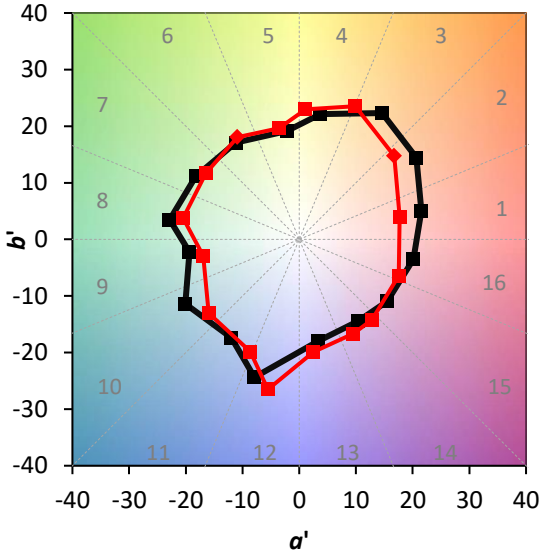
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

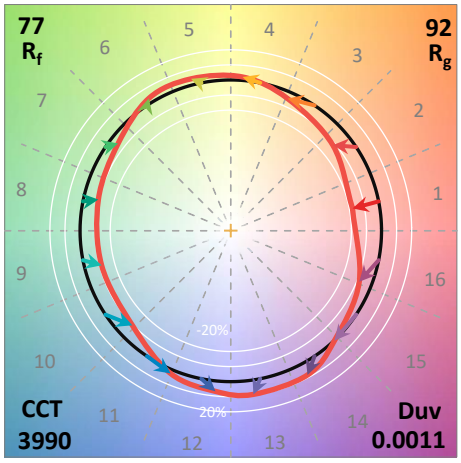
Spectral Power Distribution Comparison

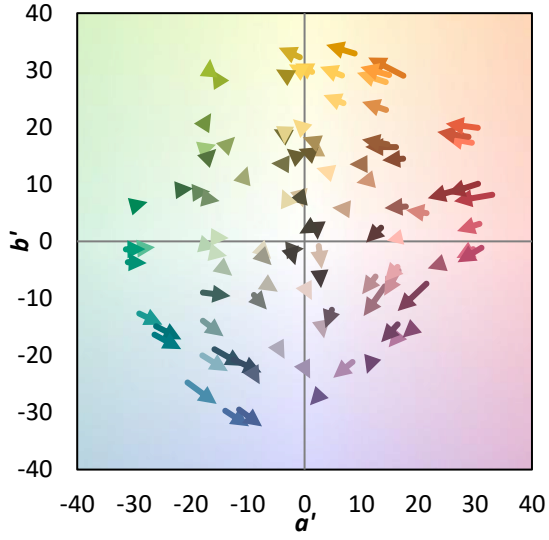


Color Vector Graphics







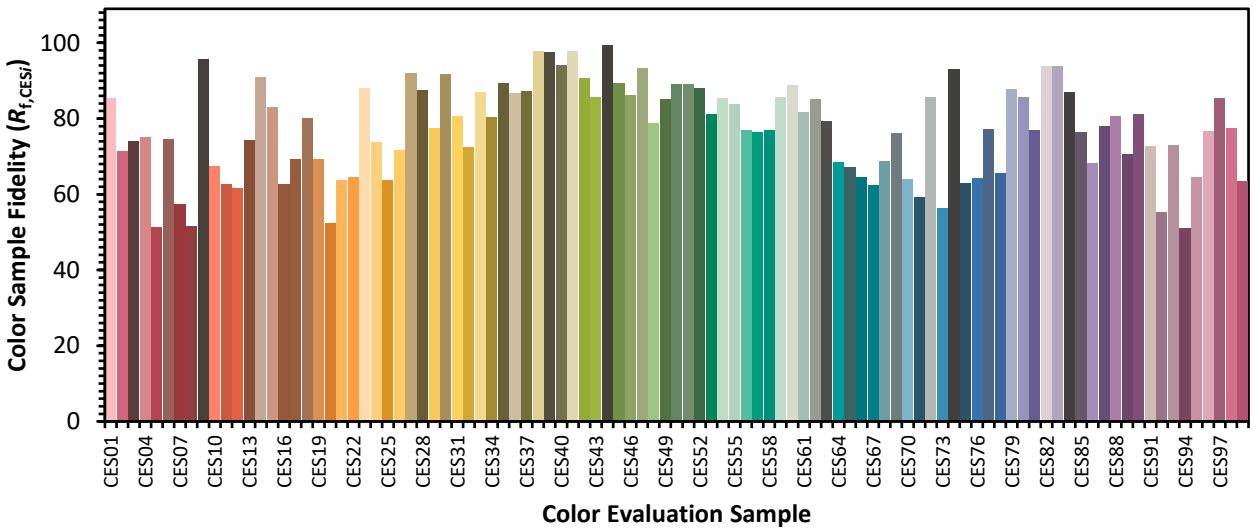


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

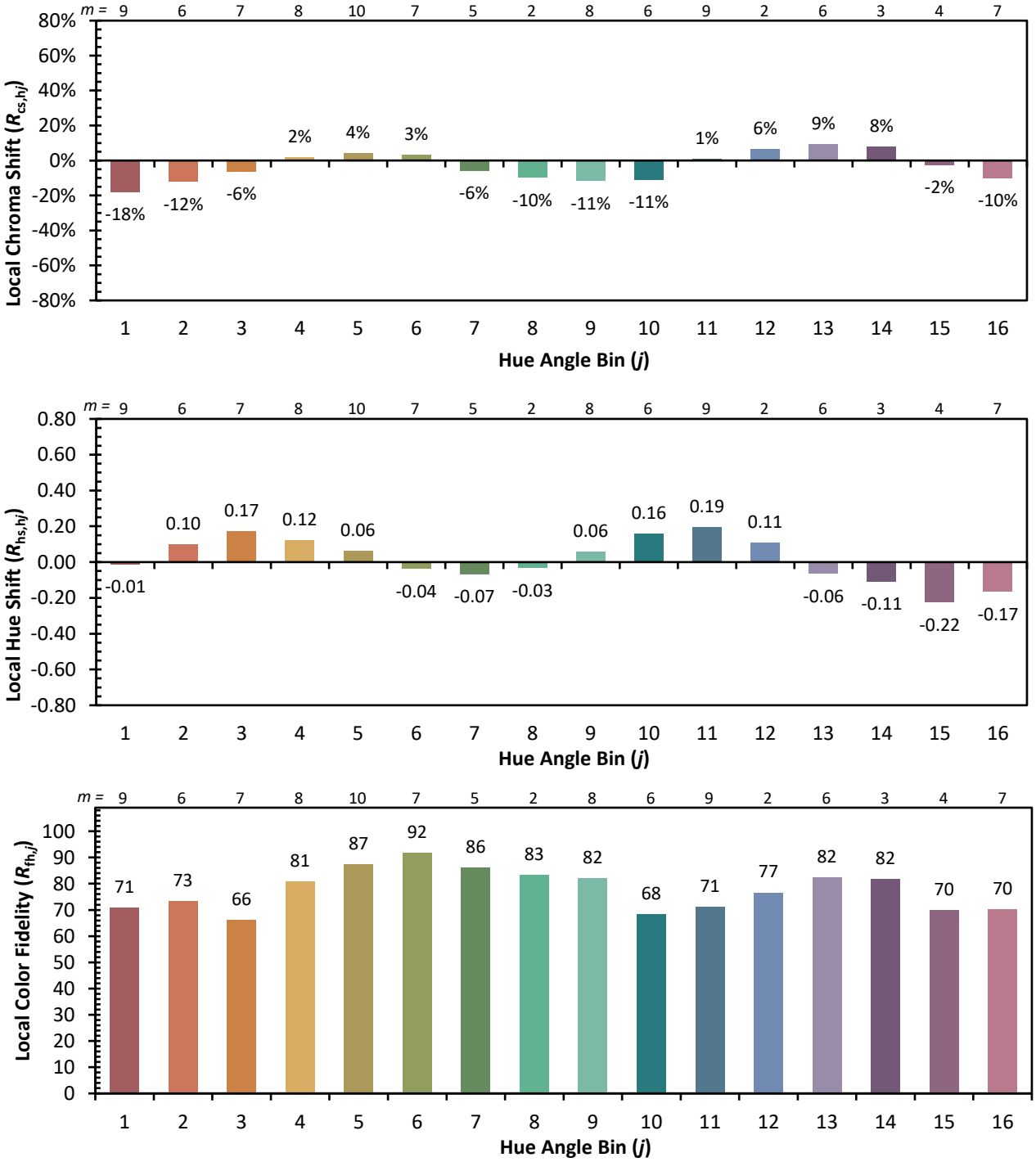
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



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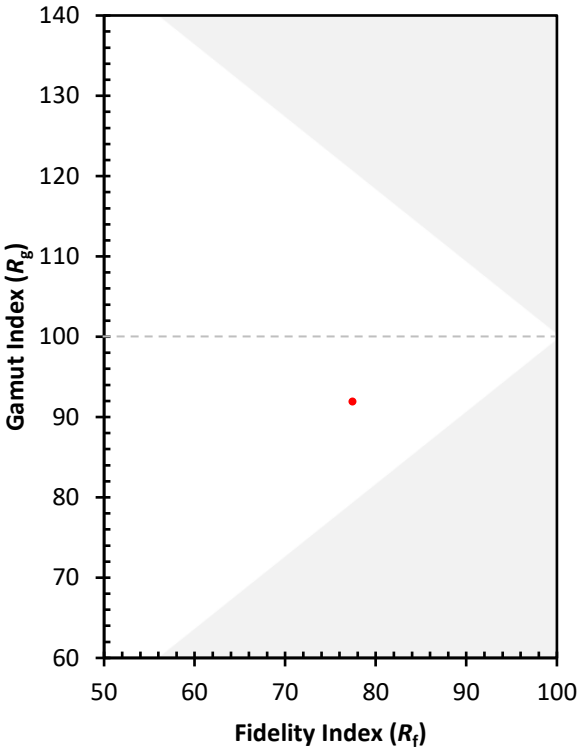
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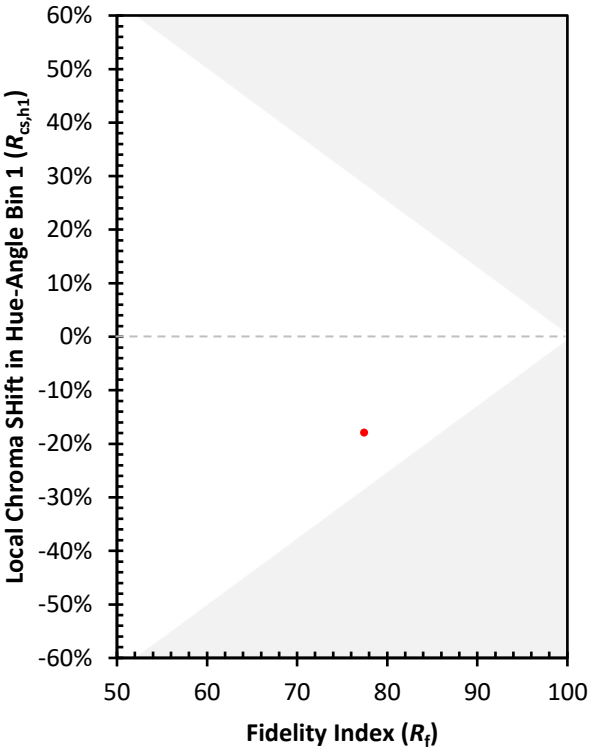


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Measure Comparisons





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