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: P981480

Luminaire Tested: **FFX-CLB-80-740-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:	P981480
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-740-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:	12662.5 lumens
Efficiency:	N/A
Efficacy:	154.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G4

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

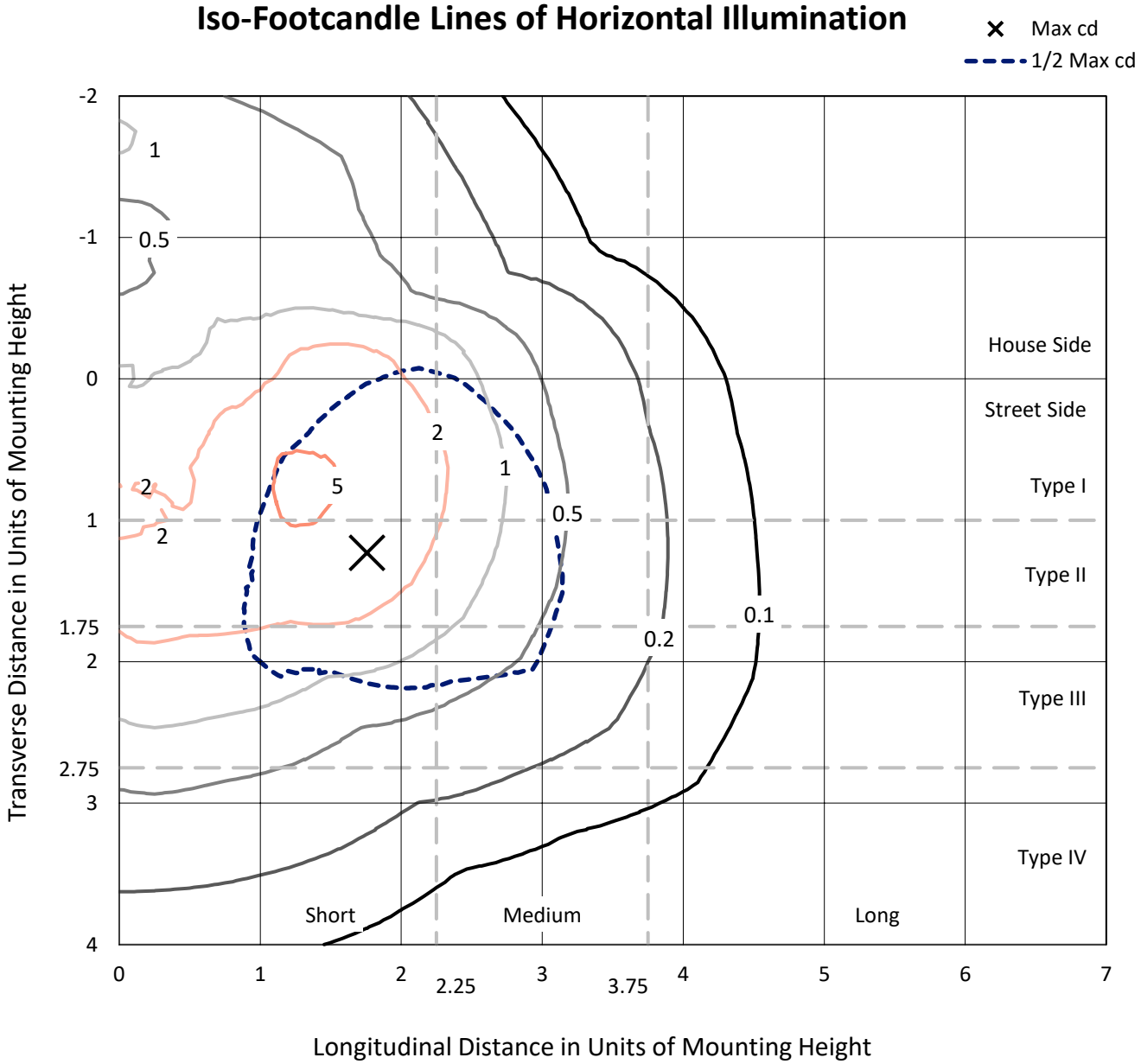


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Iso-Footcandle Lines of Horizontal Illumination



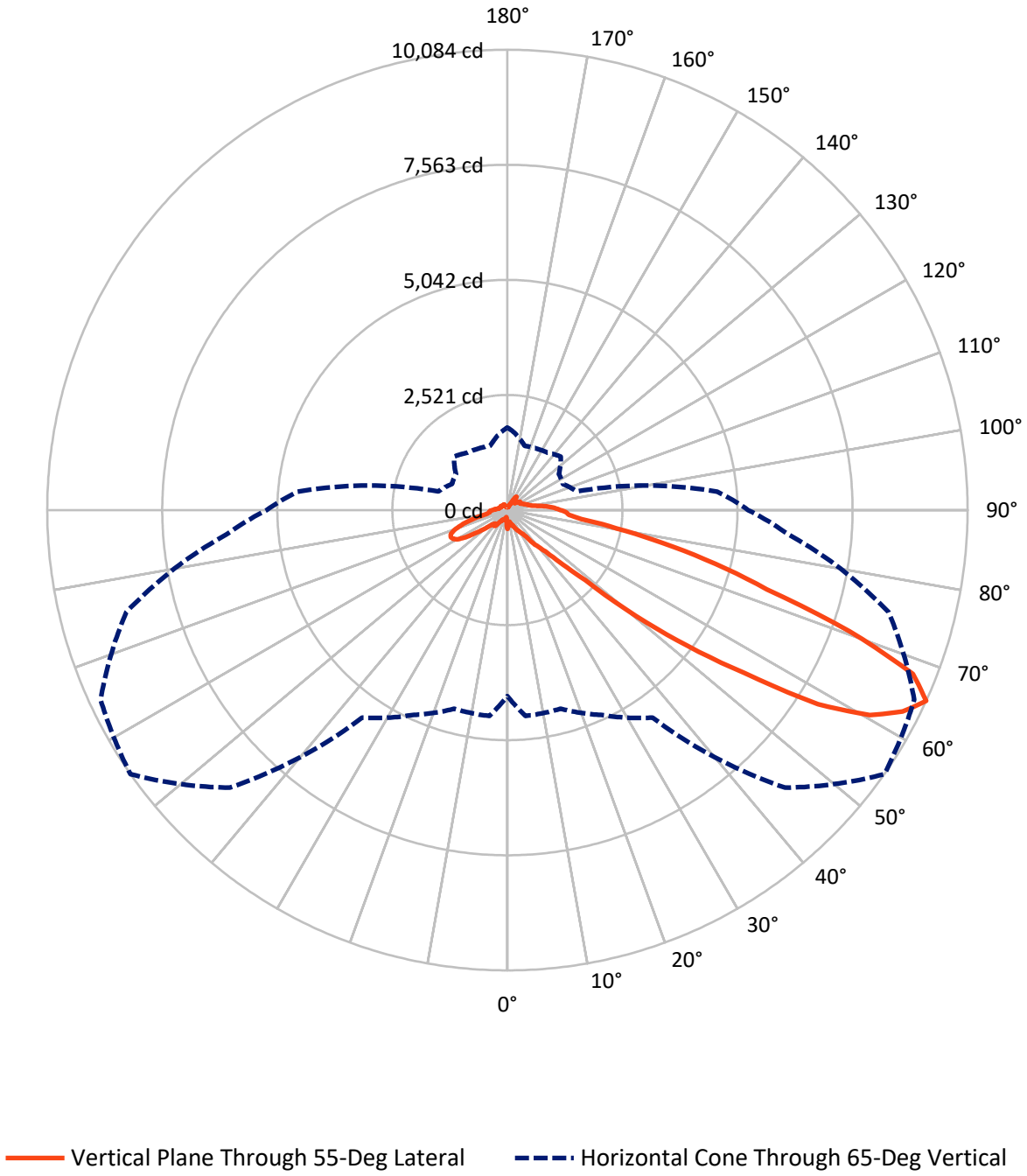
Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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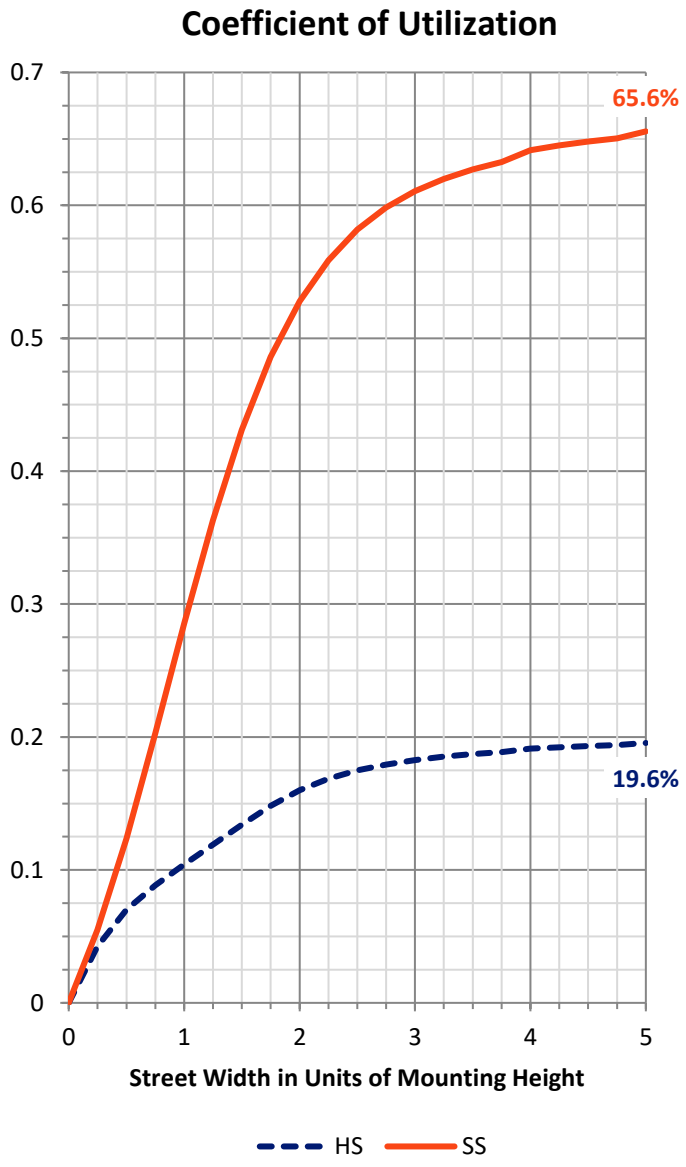
REPORT NUMBER: P981480
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2572.4	502.0	3074.4
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	8583.7	1004.5	9588.2
	% Fixture	67.8	7.9	75.7
Total	Lumens	11156.1	1506.5	12662.5
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	0.2
10°-20°	77.4	0.6
20°-30°	158.3	1.3
30°-40°	343.2	2.7
40°-50°	833.1	6.6
50°-60°	2600.7	20.5
60°-70°	4132.5	32.6
70°-80°	2202.3	17.4
80°-90°	784.7	6.2
90°-100°	477.4	3.8
100°-110°	282.7	2.2
110°-120°	220.7	1.7
120°-130°	184.0	1.5
130°-140°	134.5	1.1
140°-150°	123.7	1.0
150°-160°	55.9	0.4
160°-170°	21.4	0.2
170°-180°	6.3	0.0
0°-90°	11156.1	88.1
0°-180°	12662.5	100.0



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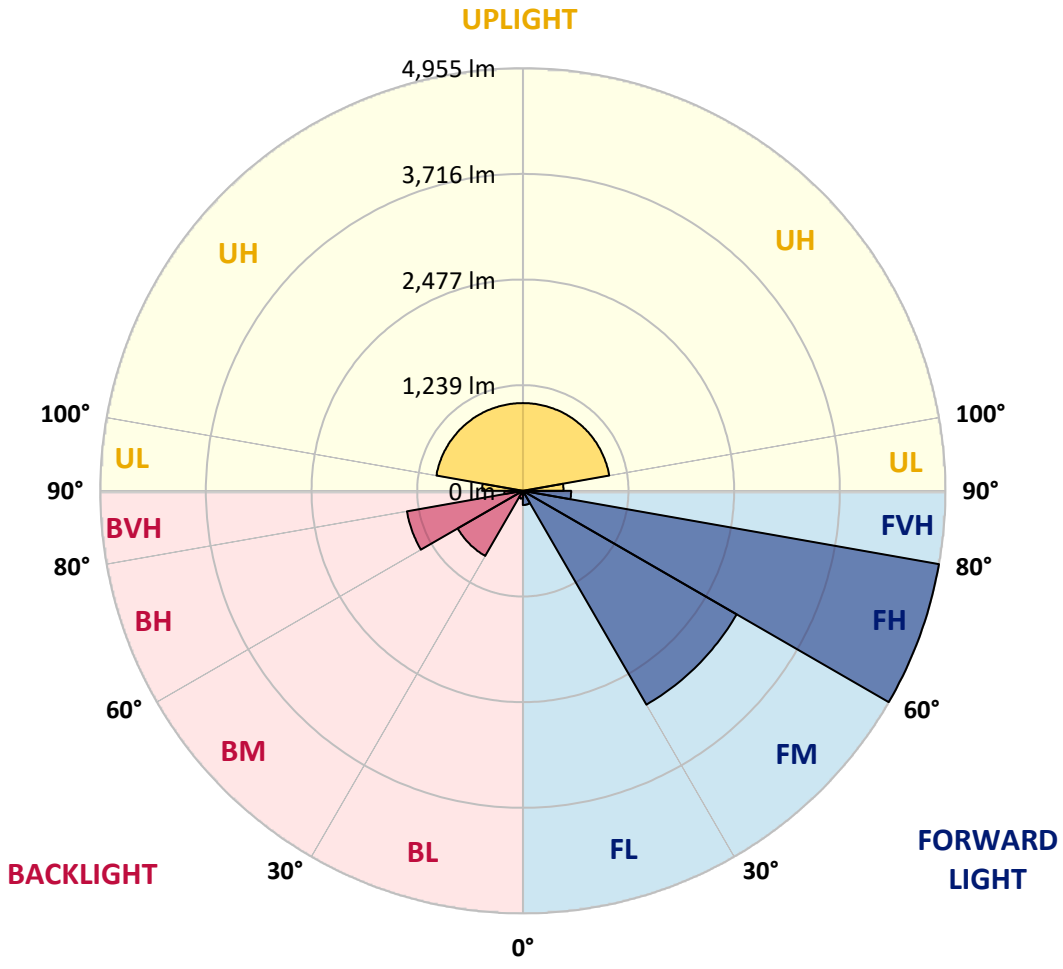
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	167.3	1.3			
FM	(30°-60°)	2895.3	22.9			
FH	(60°-80°)	4954.8	39.1			G2/5000
FVH	(80°-90°)	566.2	4.5			G4/750
BL	(0°-30°)	92.2	0.7	B0/110		
BM	(30°-60°)	881.7	7.0	B1/1000		
BH	(60°-80°)	1380.1	10.9	B3/2500		G3/2500
BVH	(80°-90°)	218.5	1.7			G2/225
UL	(90°-100°)	477.4	3.8		U3/500	
UH	(100°-180°)	1029.1	8.1		U5	

BUG Rating: B3-U5-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	410.8	410.8	410.8	410.8	410.8	410.8	*410.8*	410.8	410.8	410.8	410.8
2.5°	245.3	247.0	274.5	295.9	322.5	314.8	*314.8*	373.1	411.7	468.3	463.2
5°	262.5	251.3	256.5	275.3	311.3	328.5	*309.6*	245.3	203.3	220.4	241.0
7.5°	287.3	284.8	278.8	260.7	247.0	283.9	*335.4*	298.5	225.6	189.6	181.8
10°	294.2	295.0	293.3	295.0	301.9	285.6	*256.5*	233.3	226.4	223.0	220.4
12.5°	355.9	355.1	358.5	354.2	337.9	318.2	*324.2*	307.1	273.6	250.4	244.4
15°	415.1	413.4	412.6	396.3	369.7	337.9	*322.5*	330.2	308.8	282.2	270.2
17.5°	439.1	439.1	422.0	398.8	382.5	360.2	*348.2*	339.6	323.4	306.2	291.6
20°	429.7	428.9	411.7	402.3	404.0	393.7	*383.4*	370.5	354.2	326.8	308.8
22.5°	424.6	424.6	418.6	416.0	430.6	427.1	*424.6*	408.3	386.8	346.5	323.4
25°	458.0	455.4	447.7	447.7	461.4	472.6	*476.9*	464.0	428.9	368.0	346.5
27.5°	490.6	489.7	479.5	482.0	490.6	512.9	*519.8*	513.8	465.7	386.0	367.1
30°	530.1	524.1	515.5	530.9	529.2	560.1	*569.5*	576.4	515.5	422.8	400.5
32.5°	572.1	568.7	561.8	581.5	588.4	616.7	*624.4*	658.7	583.2	488.9	465.7
35°	643.3	640.7	658.7	697.3	696.5	749.6	*729.0*	780.5	709.3	608.1	585.0
37.5°	964.1	949.5	928.9	892.0	889.4	963.2	*940.0*	980.4	880.0	737.6	711.9
40°	1003.5	1000.9	991.5	949.5	925.5	1051.5	*1067.0*	1186.2	1020.7	857.7	808.0
42.5°	980.4	983.8	1109.9	1136.5	1087.6	1242.8	*1268.5*	1477.8	1179.3	1040.4	949.5
45°	1181.9	1187.1	1228.2	1247.1	1243.7	1633.9	*1697.4*	1953.8	1457.2	1296.8	1128.7
47.5°	1353.5	1335.4	1410.1	1554.2	1652.8	2093.6	*2297.8*	2691.5	1958.1	1721.4	1410.1
50°	1859.5	1855.2	2035.3	2193.1	2290.9	3012.2	*3640.9*	4073.2	2869.9	2495.9	1967.6
52.5°	2202.6	2348.4	2520.8	2886.2	2974.5	4099.0	*4949.8*	5296.3	3966.0	3278.1	2686.3
55°	2550.8	2760.9	2953.9	3522.6	3815.9	5325.5	*6293.8*	6389.0	5208.8	3985.7	3389.6
57.5°	3198.4	3552.6	3677.0	4130.7	4559.5	6739.0	*8022.9*	7921.7	6490.2	4806.6	4175.3
60°	3784.2	4210.5	4174.4	4618.7	5170.2	7890.9	*9120.8*	9014.4	7662.7	5535.6	4779.1
62.5°	3980.6	4410.3	4361.4	4845.2	5550.2	8508.4	*9719.5*	9537.6	8430.3	6003.1	5113.6
65°	*4072.4*	*4528.7*	*4504.6*	*4955.8*	*5550.2*	*8597.6*	*10084.0*	*9835.3*	*8644.8*	*6183.2*	*5274.9*
67.5°	3991.7	4431.7	4447.2	4847.7	5223.4	7953.5	*9586.5*	9248.6	8107.9	5750.9	4986.7
70°	3489.1	3797.0	3758.4	4121.3	4158.1	6366.7	*7956.0*	7588.1	6587.1	4795.4	4126.4
72.5°	2882.7	2957.4	2925.6	3154.6	3197.5	4663.3	*5946.4*	5738.0	4918.9	3568.0	3152.9
75°	2298.6	2286.6	2351.8	2405.0	2360.4	3423.1	*4708.8*	4472.1	3639.2	2687.2	2426.4
77.5°	1590.2	1498.4	1669.9	1686.2	1615.9	2276.3	*3473.7*	3383.6	2608.3	1980.4	1788.3
80°	893.7	904.0	1026.7	1099.6	1073.8	1448.7	*2417.0*	2357.8	1781.4	1384.3	1229.9
82.5°	689.6	720.5	777.9	832.8	796.8	1108.2	*1634.8*	1639.1	1302.8	1011.2	923.7
85°	758.2	774.5	782.2	783.9	755.6	1030.1	*1355.2*	1337.2	1106.4	846.6	819.1
87.5°	739.3	756.5	759.1	759.9	735.0	981.2	*1283.1*	1254.8	1055.0	813.1	771.1
90°	633.8	663.0	666.4	688.7	659.6	876.6	*1129.6*	1101.3	951.2	733.3	693.9
92.5°	544.6	560.1	576.4	603.0	572.1	763.4	*1011.2*	976.1	851.7	663.0	609.0
95°	498.3	506.9	520.6	530.9	494.9	648.4	*845.7*	808.8	691.3	533.5	485.5
97.5°	400.5	408.3	414.3	427.1	402.3	513.8	*656.1*	621.8	542.1	424.6	388.5
100°	342.2	347.4	354.2	362.8	342.2	430.6	*538.6*	523.2	451.2	358.5	335.4
102.5°	313.1	317.3	329.4	329.4	316.5	393.7	*481.2*	469.2	405.7	325.1	309.6
105°	301.9	302.8	313.1	308.8	300.2	367.1	*448.6*	433.1	380.0	308.8	290.8
107.5°	287.3	288.2	301.1	294.2	287.3	340.5	*406.6*	399.7	351.7	288.2	272.7
110°	272.7	275.3	291.6	285.6	281.3	319.9	*380.8*	368.0	336.2	278.8	265.9

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REPORT NUMBER: P981480
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	261.6	263.3	278.8	274.5	271.0	306.2	*353.4*	353.4	328.5	278.8	261.6
115°	252.2	255.6	268.5	259.9	253.9	288.2	*325.9*	327.6	307.1	265.9	248.7
117.5°	235.9	243.6	250.4	253.9	247.0	276.2	*309.6*	307.9	296.8	256.5	244.4
120°	268.5	262.5	267.6	273.6	262.5	285.6	*313.9*	313.9	302.8	252.2	241.9
122.5°	280.5	271.9	277.0	271.0	270.2	300.2	*335.4*	337.9	314.8	259.9	234.2
125°	248.7	245.3	239.3	237.6	244.4	272.7	*304.5*	315.6	290.8	248.7	218.7
127.5°	212.7	208.4	200.7	205.0	217.9	246.2	*262.5*	268.5	258.2	230.7	208.4
130°	196.4	195.6	201.6	209.3	219.6	243.6	*248.7*	257.3	257.3	224.7	211.9
132.5°	179.3	180.1	199.0	225.6	233.3	238.4	*227.3*	243.6	251.3	229.0	214.4
135°	176.7	177.5	187.8	209.3	210.1	213.6	*214.4*	235.0	240.2	218.7	202.4
137.5°	193.0	193.0	185.3	189.6	199.0	224.7	*233.3*	249.6	245.3	206.7	182.7
140°	212.7	208.4	184.4	185.3	201.6	233.3	*244.4*	254.7	249.6	202.4	174.1
142.5°	175.8	177.5	181.8	198.1	217.0	289.0	*279.6*	305.3	295.0	214.4	169.8
145°	274.5	275.3	270.2	277.0	289.0	384.3	*355.1*	396.3	408.3	280.5	201.6
147.5°	300.2	303.6	294.2	288.2	322.5	351.7	*319.1*	353.4	376.5	294.2	216.1
150°	234.2	233.3	227.3	235.9	259.0	257.3	*240.2*	252.2	261.6	224.7	185.3
152.5°	166.4	163.8	160.4	161.2	188.7	181.8	*176.7*	187.0	187.0	172.4	148.4
155°	138.1	138.1	136.4	140.7	156.1	144.1	*139.8*	138.1	136.4	132.1	122.7
157.5°	116.6	119.2	116.6	121.8	132.1	120.9	*118.4*	115.8	116.6	116.6	114.1
160°	96.9	96.9	95.2	103.8	107.2	98.6	*94.3*	92.6	92.6	97.8	97.8
162.5°	81.5	81.5	82.3	85.8	88.3	82.3	*79.8*	79.8	82.3	90.1	90.1
165°	70.3	70.3	71.2	73.8	75.5	72.0	*70.3*	71.2	78.1	84.9	84.9
167.5°	64.3	64.3	64.3	65.2	66.0	64.3	*64.3*	67.8	73.8	78.1	78.1
170°	60.9	60.9	60.0	60.9	60.9	60.9	*64.3*	67.8	70.3	70.3	70.3
172.5°	61.8	61.8	60.9	61.8	61.8	60.9	*65.2*	69.5	67.8	66.9	66.9
175°	63.5	63.5	63.5	64.3	64.3	62.6	*61.8*	63.5	65.2	65.2	64.3
177.5°	63.5	63.5	62.6	63.5	62.6	60.9	*60.0*	59.2	59.2	58.3	58.3
180°	59.2	59.2	59.2	59.2	59.2	59.2	*59.2*	59.2	59.2	59.2	59.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8	410.8
2.5°	419.4	361.9	319.1	352.5	426.3	463.2	426.3	324.2	228.1	199.8
5°	251.3	244.4	220.4	215.3	224.7	216.1	240.2	227.3	180.1	181.8
7.5°	187.8	227.3	219.6	157.0	146.7	137.2	145.0	165.5	170.7	159.5
10°	217.9	196.4	171.5	159.5	174.1	187.8	178.4	155.2	133.8	127.8
12.5°	240.2	238.4	241.0	216.1	177.5	163.8	158.7	170.7	207.6	216.1
15°	258.2	238.4	220.4	215.3	189.6	175.8	169.0	165.5	158.7	153.5
17.5°	276.2	243.6	223.9	204.1	191.3	178.4	163.8	156.1	155.2	156.1
20°	288.2	258.2	235.0	212.7	196.4	179.3	164.7	157.8	157.8	157.8
22.5°	302.8	273.6	248.7	220.4	201.6	182.7	170.7	163.8	163.0	163.0
25°	326.8	294.2	265.0	234.2	213.6	196.4	180.1	171.5	169.0	168.1
27.5°	354.2	318.2	283.0	251.3	229.9	211.0	189.6	176.7	173.3	172.4
30°	389.4	348.2	303.6	270.2	243.6	225.6	199.8	184.4	177.5	176.7
32.5°	446.9	392.8	334.5	297.6	265.9	241.9	213.6	194.7	183.5	181.0
35°	557.5	491.5	404.0	350.8	300.2	262.5	225.6	200.7	189.6	187.8
37.5°	681.0	580.7	495.8	434.0	372.2	308.8	244.4	210.1	196.4	193.8
40°	734.2	639.0	548.9	452.0	438.3	388.5	300.2	233.3	205.8	201.6
42.5°	850.8	715.3	593.5	399.7	431.4	428.9	370.5	285.6	231.6	221.3
45°	1001.8	814.0	660.4	427.1	434.9	419.4	380.0	330.2	281.3	270.2
47.5°	1248.0	910.0	681.9	480.3	488.9	452.0	398.0	348.2	313.1	308.8
50°	1782.3	1192.2	760.8	581.5	609.0	524.1	457.2	414.3	372.2	364.5
52.5°	2423.0	1412.6	842.3	725.6	824.3	702.5	601.2	522.3	519.8	509.5
55°	3098.0	1497.5	950.3	884.3	1037.8	932.3	833.7	761.6	798.5	802.0
57.5°	3856.2	1588.5	1106.4	1091.9	1296.8	1128.7	1045.5	1065.3	1326.9	1428.9
60°	4361.4	1663.1	1241.1	1263.4	1533.6	1369.7	1307.1	1350.9	1795.2	1981.3
62.5°	4586.1	1625.3	1307.1	1345.7	1635.6	1516.4	1506.1	1529.3	1905.8	2079.9
65°	*4617.0*	*1569.6*	*1343.2*	*1376.6*	*1653.6*	*1531.9*	*1488.1*	*1455.5*	*1706.0*	*1808.0*
67.5°	4237.9	1451.2	1314.9	1350.0	1572.2	1426.4	1317.4	1243.7	1388.6	1398.9
70°	3448.8	1296.0	1218.8	1231.7	1343.2	1193.9	1091.0	1027.5	1061.0	1047.3
72.5°	2674.3	1142.5	1085.8	1055.8	1089.3	961.5	839.7	807.1	838.8	824.3
75°	2031.9	1020.7	958.1	856.8	911.7	740.2	604.7	575.5	589.2	569.5
77.5°	1494.1	822.5	749.6	633.8	709.3	536.9	408.3	378.2	383.4	364.5
80°	1090.1	608.1	548.1	454.6	511.2	381.7	295.0	289.9	289.0	277.0
82.5°	842.3	482.9	438.3	391.1	400.5	337.1	279.6	271.0	271.0	253.0
85°	781.4	467.4	422.0	388.5	391.1	326.8	265.9	260.7	263.3	244.4
87.5°	729.9	457.2	420.3	380.0	360.2	295.9	239.3	245.3	247.0	230.7
90°	626.1	406.6	373.1	334.5	311.3	251.3	214.4	225.6	227.3	212.7
92.5°	548.9	349.1	320.8	290.8	280.5	235.9	205.8	214.4	214.4	201.6
95°	437.4	285.6	272.7	258.2	255.6	220.4	192.1	196.4	194.7	183.5
97.5°	355.9	247.9	236.7	223.0	214.4	188.7	169.0	173.3	174.1	166.4
100°	313.1	229.0	213.6	198.1	189.6	169.8	154.4	162.1	167.3	160.4
102.5°	292.5	218.7	201.6	185.3	178.4	160.4	145.8	152.7	159.5	153.5
105°	277.9	211.0	193.0	178.4	169.8	151.8	137.2	138.9	147.5	144.1
107.5°	259.0	211.0	187.8	173.3	163.0	146.7	129.5	127.8	132.9	132.1
110°	252.2	211.0	184.4	169.8	158.7	144.1	128.7	121.8	124.4	124.4

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

Scaled Data Report

REPORT NUMBER: P981480
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	246.2	209.3	181.0	163.8	154.4	142.4	126.9	116.6	119.2	120.9
115°	232.4	193.0	170.7	152.7	143.2	130.4	120.1	112.4	113.2	114.9
117.5°	224.7	178.4	165.5	149.2	142.4	134.7	125.2	110.6	110.6	112.4
120°	224.7	175.8	169.8	163.8	160.4	147.5	132.1	110.6	108.1	108.1
122.5°	221.3	195.6	185.3	171.5	162.1	145.0	126.1	108.1	106.4	106.4
125°	203.3	187.0	170.7	154.4	143.2	129.5	118.4	108.9	105.5	105.5
127.5°	193.8	168.1	152.7	139.8	132.1	125.2	118.4	108.9	104.6	103.8
130°	196.4	169.8	150.1	139.8	133.8	126.9	119.2	107.2	100.4	99.5
132.5°	198.1	163.8	145.0	136.4	132.1	126.9	116.6	101.2	93.5	93.5
135°	179.3	147.5	138.9	132.9	130.4	126.1	110.6	96.1	90.1	89.2
137.5°	163.0	143.2	137.2	131.2	126.9	120.9	108.9	94.3	86.6	85.8
140°	156.1	139.8	131.2	120.1	114.9	102.9	94.3	85.8	83.2	82.3
142.5°	148.4	131.2	120.9	111.5	108.9	104.6	99.5	85.8	77.2	77.2
145°	177.5	157.8	145.8	136.4	124.4	115.8	99.5	82.3	71.2	69.5
147.5°	186.1	168.1	156.1	143.2	120.9	102.1	84.1	72.0	67.8	66.0
150°	163.0	147.5	134.7	120.9	101.2	88.3	76.3	68.6	66.9	66.9
152.5°	129.5	120.9	107.2	97.8	84.9	77.2	70.3	66.0	64.3	64.3
155°	107.2	100.4	92.6	84.9	78.1	72.9	68.6	65.2	63.5	63.5
157.5°	103.8	93.5	86.6	79.8	75.5	70.3	66.9	63.5	62.6	61.8
160°	94.3	82.3	76.3	72.0	71.2	69.5	66.9	64.3	63.5	62.6
162.5°	87.5	75.5	71.2	68.6	71.2	72.9	71.2	67.8	65.2	64.3
165°	82.3	71.2	67.8	67.8	72.9	75.5	71.2	67.8	67.8	66.9
167.5°	76.3	72.9	68.6	67.8	72.0	77.2	78.1	72.0	69.5	68.6
170°	71.2	72.0	72.0	69.5	70.3	74.6	76.3	74.6	71.2	70.3
172.5°	67.8	69.5	72.9	71.2	71.2	72.9	74.6	72.9	70.3	69.5
175°	64.3	65.2	63.5	64.3	66.9	69.5	68.6	67.8	66.9	66.9
177.5°	58.3	58.3	59.2	59.2	60.0	62.6	63.5	63.5	65.2	65.2
180°	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2

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

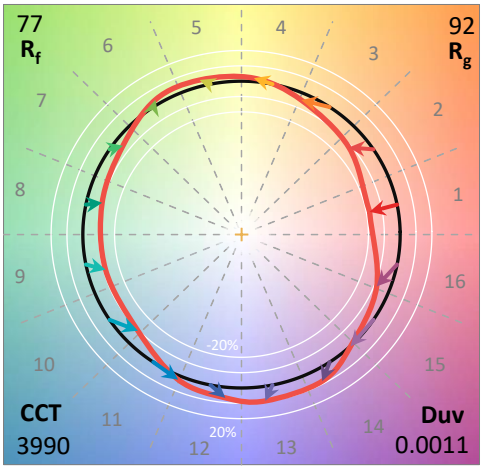
Test Information

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

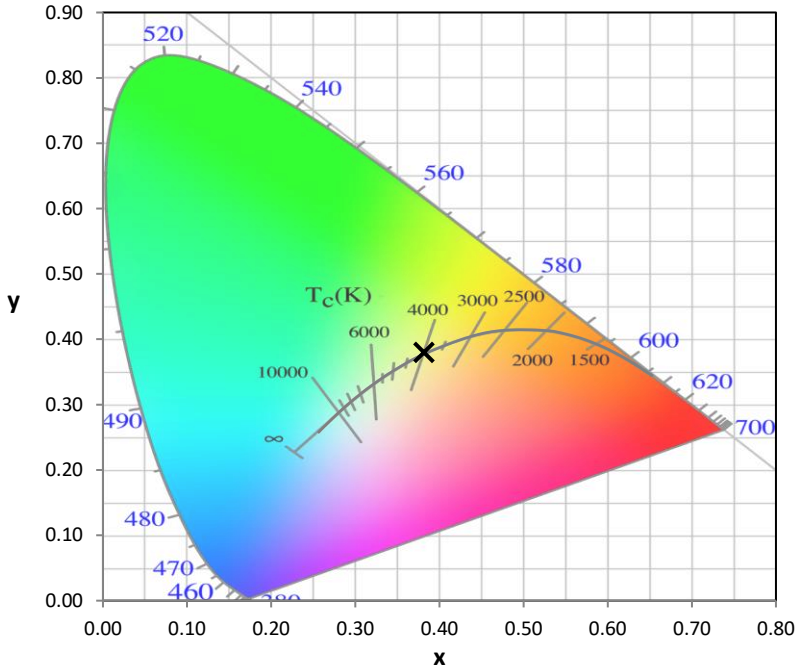
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

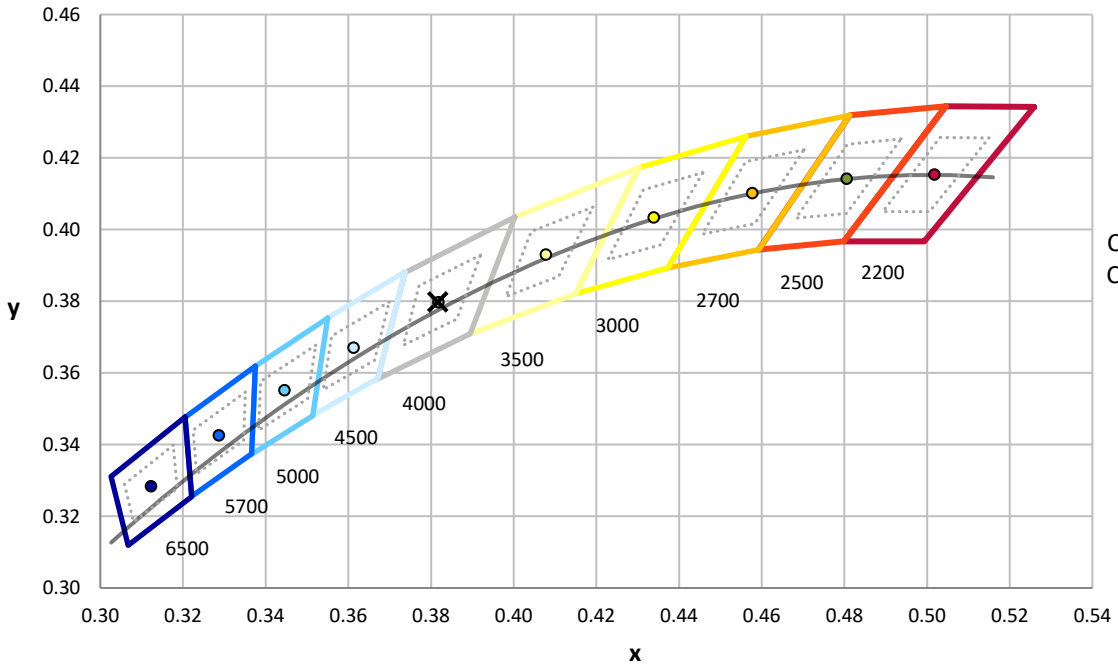
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

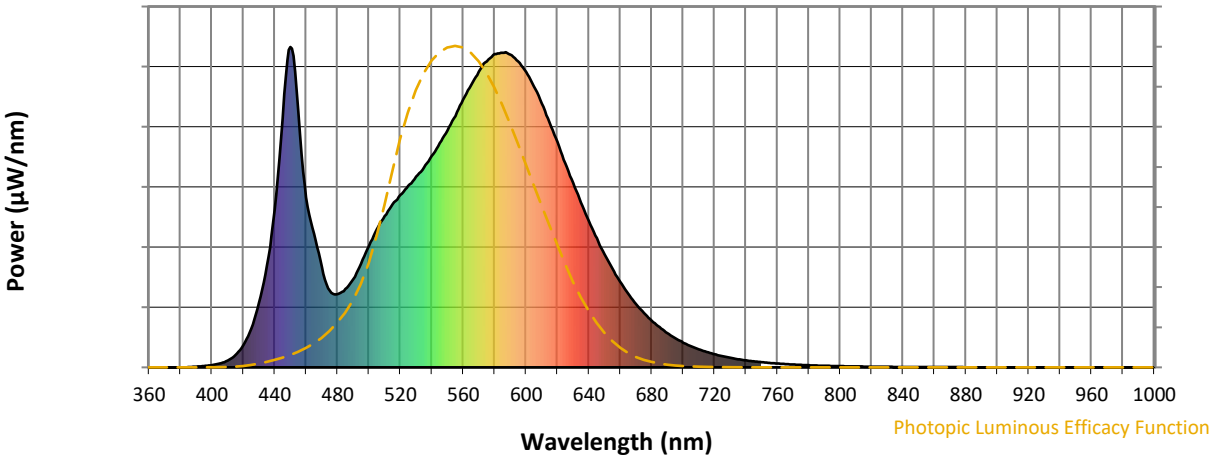


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

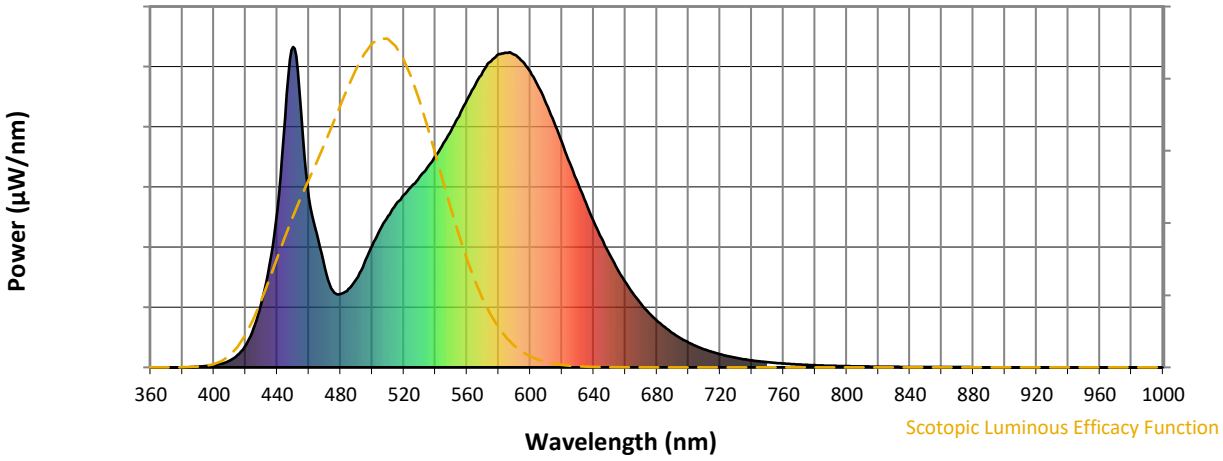


Photopic Lumens: NR

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

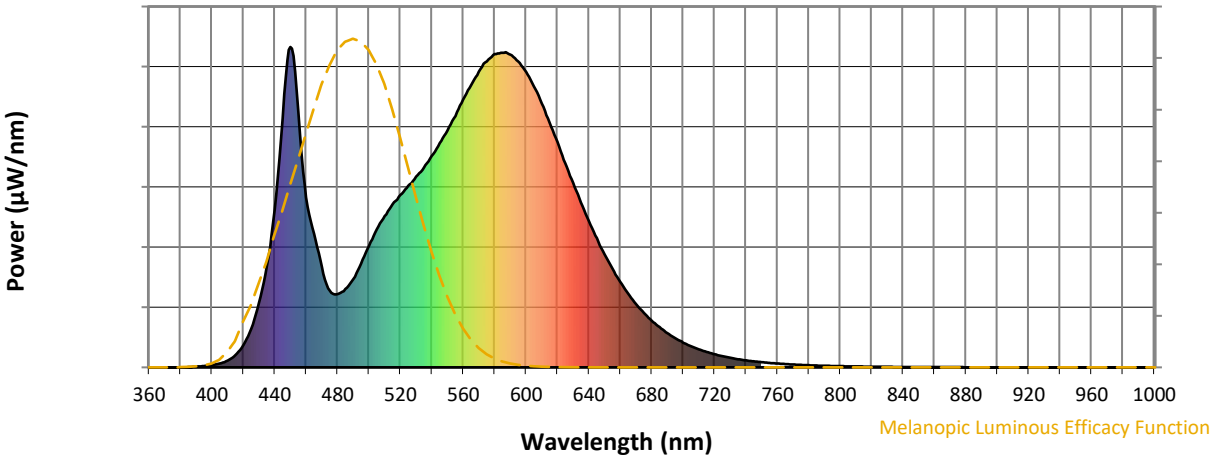


Scotopic Lumens: NR **S/P: 1.59**

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			

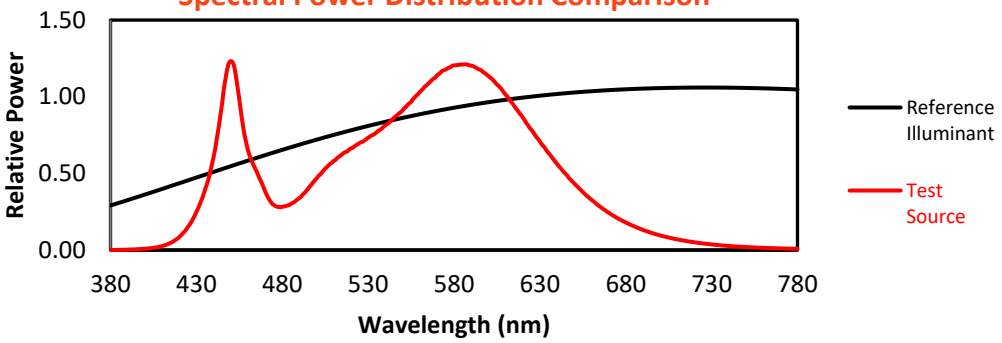
REPORT NUMBER: SP1-2501-332-1

TM-30-18

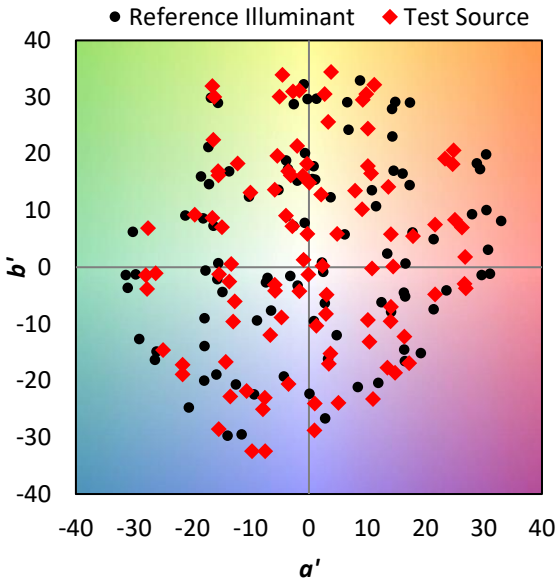
Summary

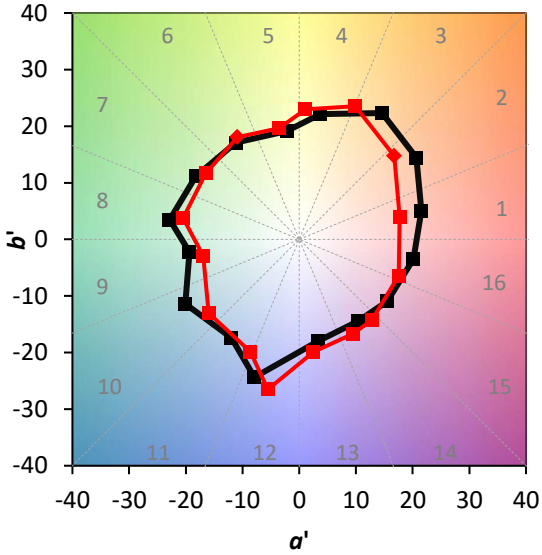
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

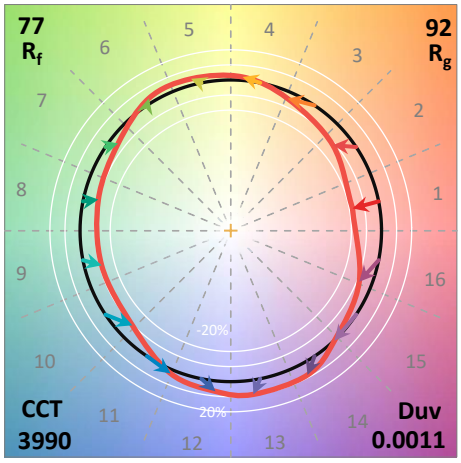
Spectral Power Distribution Comparison

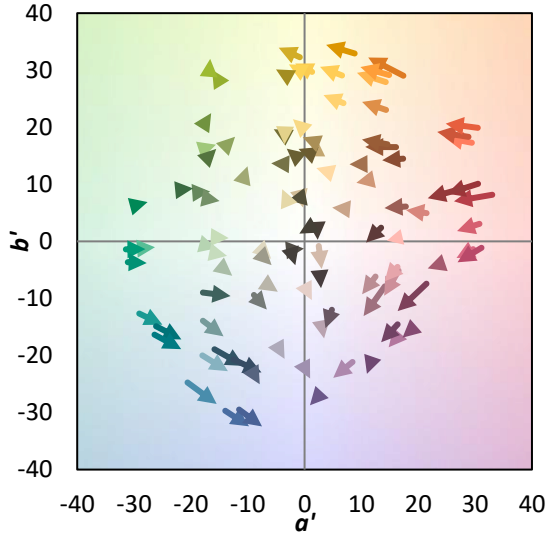


Color Vector Graphics







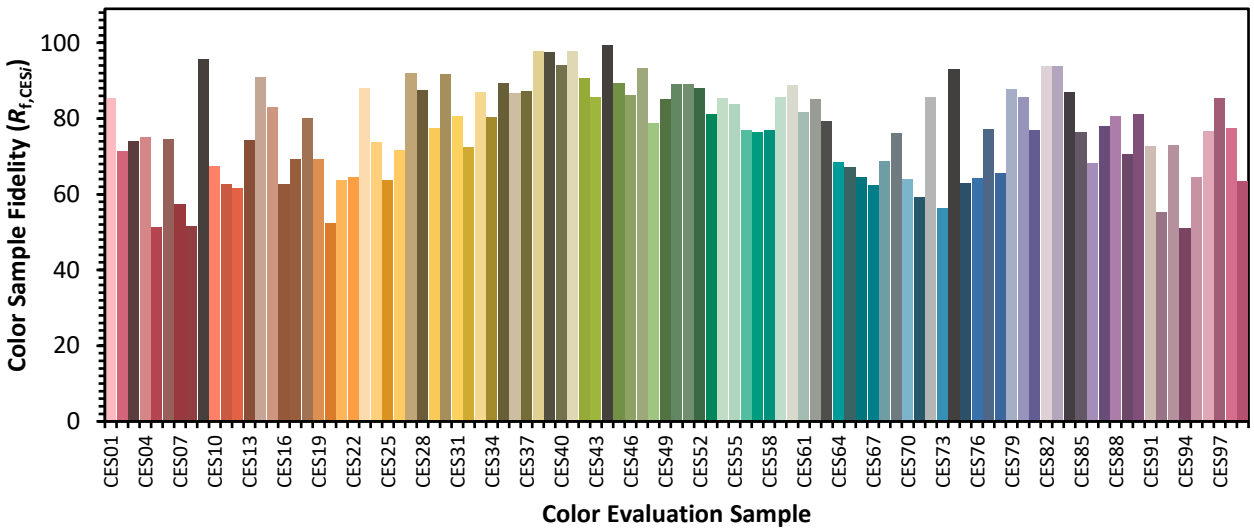


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

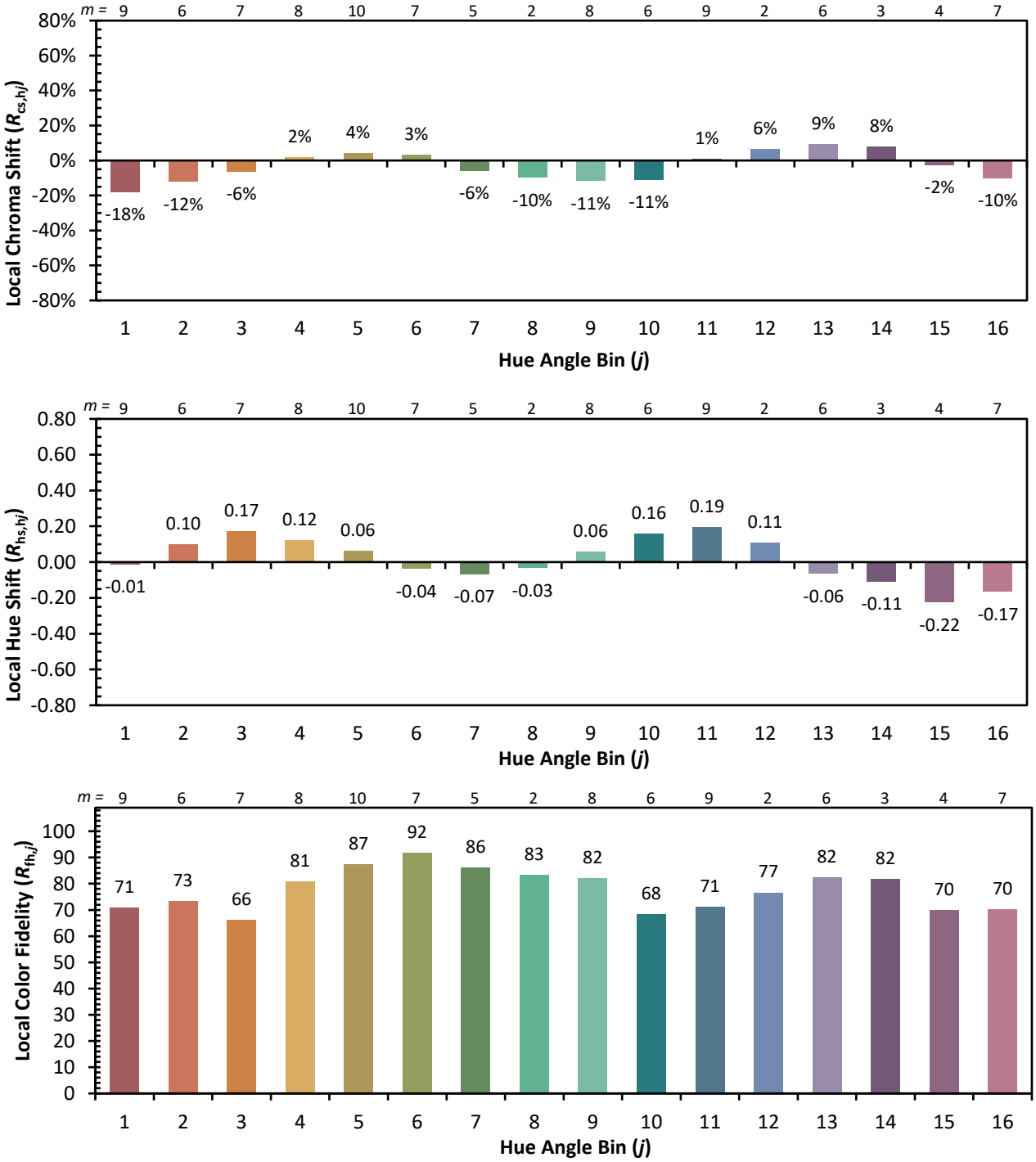
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 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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TM-30-18

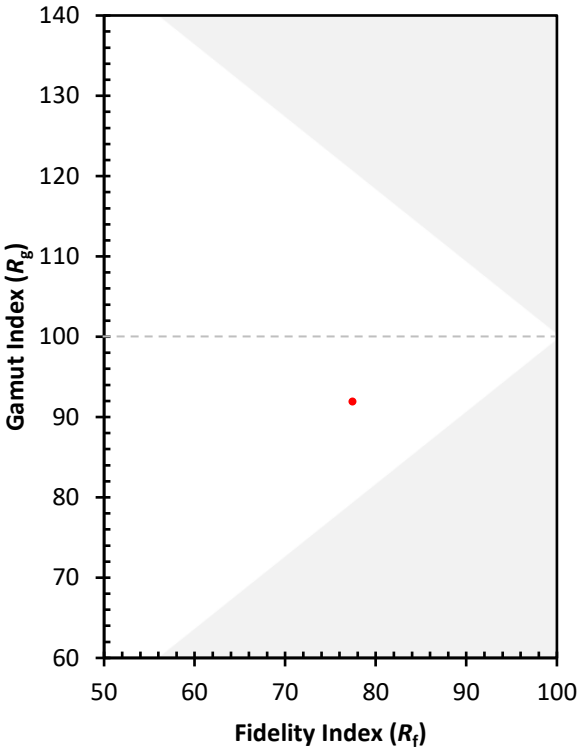
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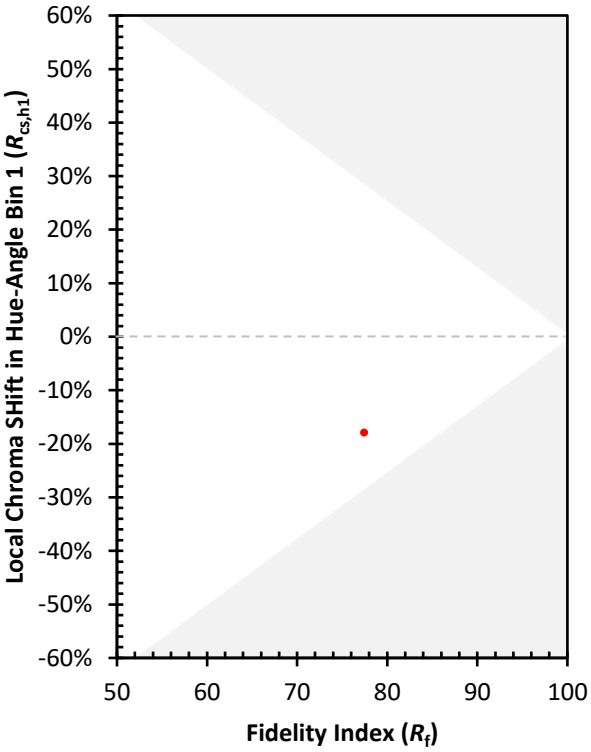


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Measure Comparisons





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