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: P1046435

Luminaire Tested: **FFX-CLB-90-740-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046435
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-90-740-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14410.7 lumens
Efficiency:	N/A
Efficacy:	159.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G4

Input Watts (W):	90.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	5.42%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

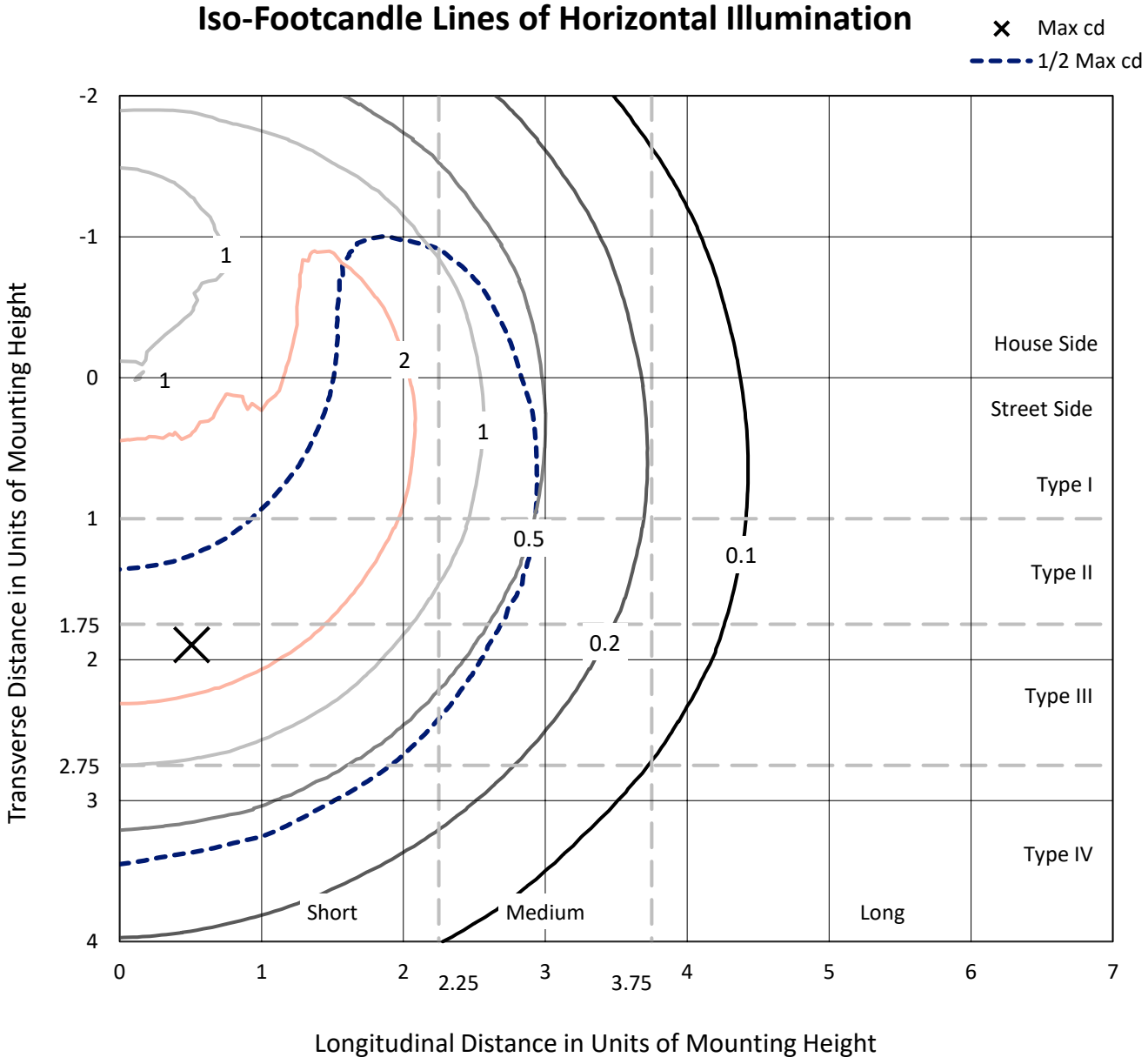


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Iso-Footcandle Lines of Horizontal Illumination



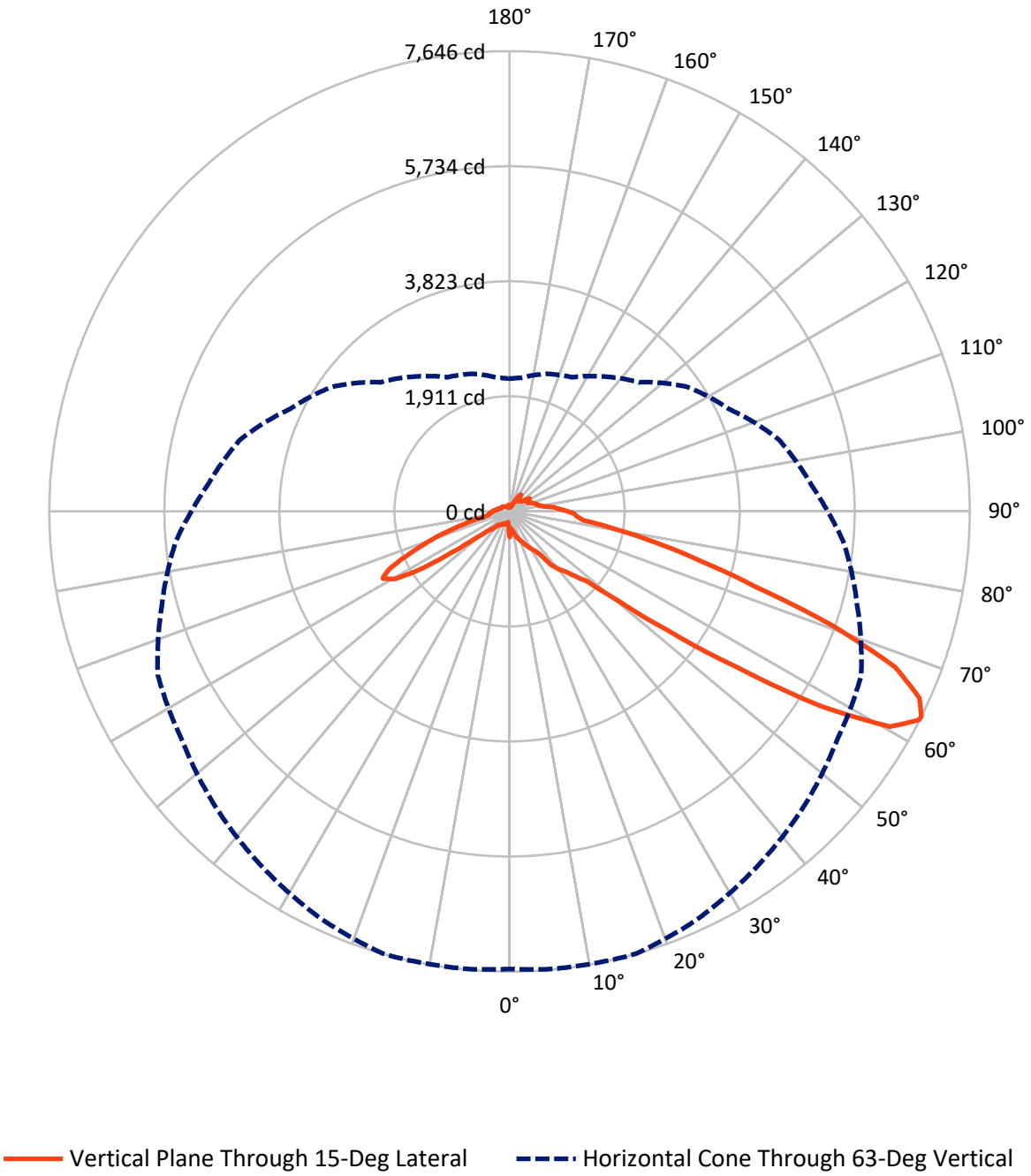
Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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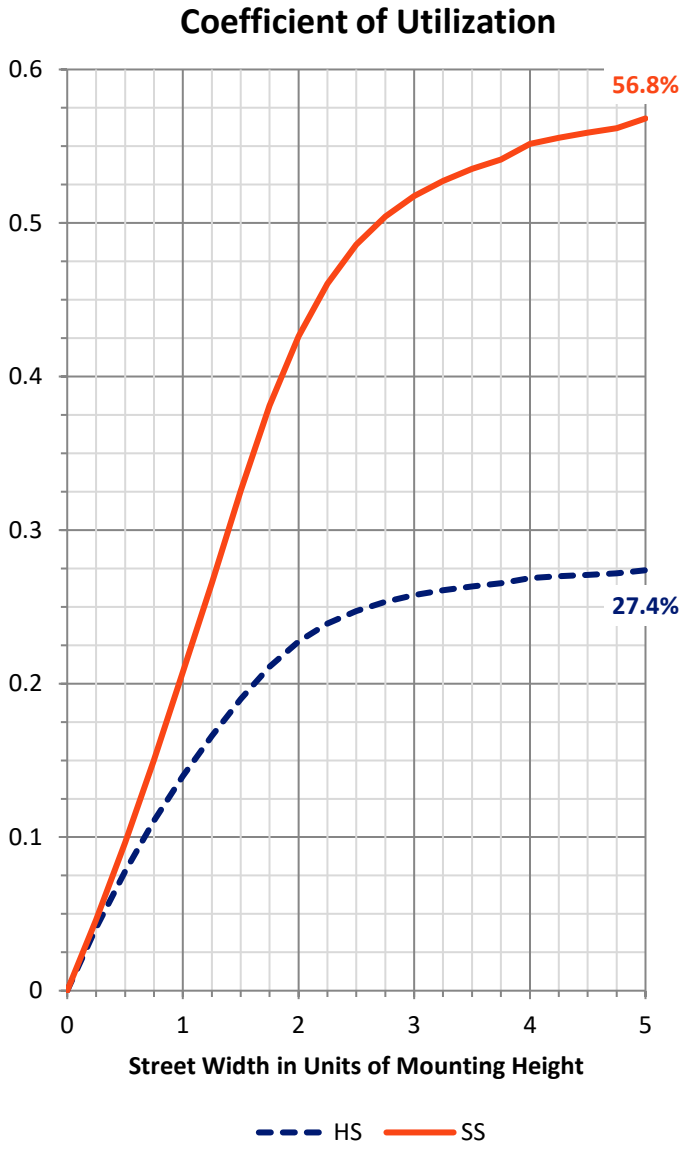
REPORT NUMBER: P1046435
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4075.5	664.0	4739.6
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	8533.6	1137.5	9671.1
	% Fixture	59.2	7.9	67.1
Total	Lumens	12609.2	1801.5	14410.7
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.2
10°-20°	94.4	0.7
20°-30°	204.4	1.4
30°-40°	420.3	2.9
40°-50°	866.6	6.0
50°-60°	2850.8	19.8
60°-70°	4720.1	32.8
70°-80°	2475.7	17.2
80°-90°	950.7	6.6
90°-100°	574.2	4.0
100°-110°	361.7	2.5
110°-120°	267.8	1.9
120°-130°	228.0	1.6
130°-140°	148.7	1.0
140°-150°	129.3	0.9
150°-160°	59.1	0.4
160°-170°	24.2	0.2
170°-180°	8.4	0.1
0°-90°	12609.2	87.5
0°-180°	14410.7	100.0



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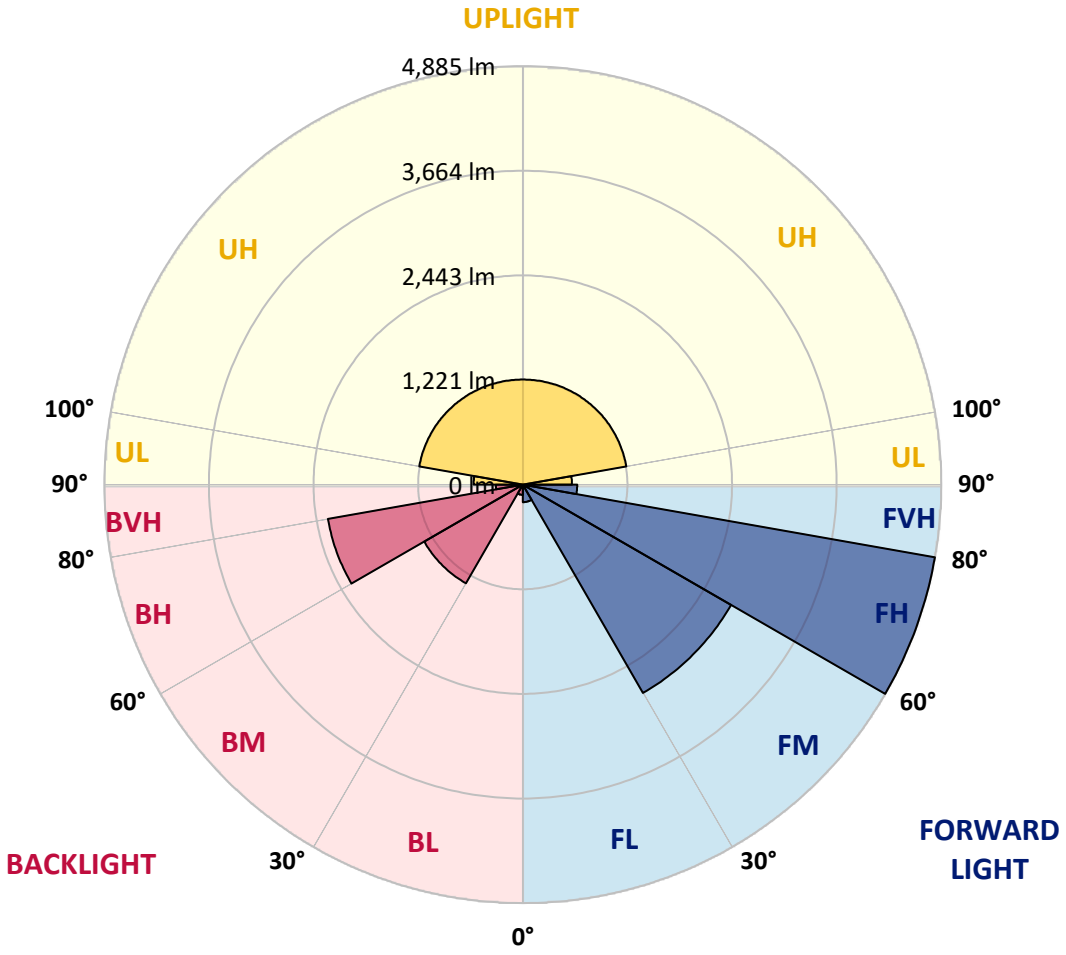
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	205.0	1.4			
FM	(30°-60°)	2808.0	19.5			
FH	(60°-80°)	4885.4	33.9			G2/5000
FVH	(80°-90°)	635.2	4.4			G4/750
BL	(0°-30°)	119.9	0.8	B1/500		
BM	(30°-60°)	1329.7	9.2	B2/2500		
BH	(60°-80°)	2310.4	16.0	B3/2500		G3/2500
BVH	(80°-90°)	315.5	2.2			G3/500
UL	(90°-100°)	574.2	4.0		U4/1000	
UH	(100°-180°)	1227.2	8.5		U5	

BUG Rating: B3-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6
2.5°	262.0	262.0	299.8	306.4	342.4	353.7	333.9	318.7	355.6	431.3	443.6
5°	284.7	290.4	289.4	288.5	290.4	324.4	359.4	343.3	281.8	224.2	224.2
7.5°	322.5	324.4	323.5	322.5	310.2	290.4	281.8	307.4	323.5	275.2	230.8
10°	349.0	347.1	346.2	345.2	347.1	354.7	351.8	320.6	289.4	273.3	263.9
12.5°	399.1	400.1	397.2	395.3	393.4	390.6	387.8	394.4	377.4	331.0	299.8
15°	437.0	437.0	444.5	442.6	442.6	433.2	419.9	401.0	378.3	366.0	338.6
17.5°	476.7	477.6	476.7	476.7	472.9	460.6	446.4	429.4	405.7	384.9	361.3
20°	515.5	515.5	514.5	513.6	512.6	503.2	485.2	462.5	440.7	420.9	396.3
22.5°	556.1	559.0	560.8	559.0	556.1	546.7	526.8	505.0	484.2	455.9	429.4
25°	613.8	614.8	612.9	611.0	607.2	594.9	579.8	557.1	531.5	501.3	466.3
27.5°	668.7	670.6	669.6	669.6	662.0	651.6	636.5	606.2	577.9	542.9	506.9
30°	731.1	729.2	724.5	725.4	720.7	712.2	695.2	668.7	632.7	591.1	551.4
32.5°	792.6	792.6	785.9	783.1	783.1	771.8	752.8	725.4	691.4	646.9	608.1
35°	859.7	876.7	893.8	900.4	900.4	884.3	861.6	825.7	796.3	750.0	701.8
37.5°	1182.2	1171.8	1130.2	1134.9	1120.8	1114.1	1099.0	1068.7	1028.1	957.1	883.4
40°	1295.7	1293.8	1262.6	1258.8	1252.2	1230.5	1214.4	1193.6	1179.4	1094.3	983.6
42.5°	1315.6	1326.0	1367.6	1378.0	1431.9	1398.8	1334.5	1217.2	1187.9	1123.6	1077.2
45°	1538.8	1542.6	1542.6	1544.5	1530.3	1505.7	1497.2	1422.5	1363.8	1271.1	1184.1
47.5°	1761.0	1769.6	1736.5	1762.9	1799.8	1749.7	1727.0	1665.5	1585.1	1513.3	1370.4
50°	2277.4	2310.5	2317.2	2318.1	2334.2	2330.4	2296.4	2211.2	2130.8	1966.3	1807.4
52.5°	3233.6	3265.8	3280.0	3245.9	3195.8	3173.1	3181.6	3146.6	2960.3	2783.4	2460.9
55°	4482.1	4537.9	4537.9	4573.8	4558.7	4450.9	4444.2	4215.4	3914.6	3717.9	3437.0
57.5°	6152.3	6068.1	6115.4	6166.5	6062.5	5949.0	5779.7	5540.4	5100.6	4761.1	4354.4
60°	7390.3	7356.3	7262.7	7205.0	6944.9	6719.8	6586.4	6411.5	6077.6	5631.2	5087.4
62.5°	7617.3	7641.9	7635.3	7635.3	7427.2	7157.7	6888.1	6631.8	6424.7	5965.1	5534.7
63°	7603.1	7633.4	7645.7	7641.9	7454.7	7188.9	6921.2	6638.4	6446.5	5977.3	5561.2
65°	7482.1	7507.6	7485.9	7478.3	7360.1	7180.4	6879.6	6599.7	6424.7	5922.5	5565.0
67.5°	6996.0	6990.3	6908.9	6945.8	6871.1	6770.9	6490.0	6213.8	6092.7	5544.2	5215.0
70°	5650.1	5610.4	5699.3	5752.2	5670.9	5631.2	5297.3	5115.7	4959.7	4542.6	4276.8
72.5°	4319.4	4237.1	4252.2	4300.5	4198.3	4170.9	4028.1	3878.7	3803.9	3543.8	3248.8
75°	3386.8	3342.4	3260.1	3273.4	3189.2	3161.8	3146.6	3103.1	3073.8	2857.2	2565.0
77.5°	2532.8	2530.9	2461.9	2451.5	2390.9	2436.3	2418.4	2483.6	2469.4	2297.3	2075.0
80°	1772.4	1762.0	1780.0	1773.3	1759.2	1785.6	1757.3	1793.2	1793.2	1680.7	1587.0
82.5°	1156.7	1177.5	1234.2	1247.5	1268.3	1330.7	1230.5	1177.5	1163.3	1151.0	1105.6
85°	1148.2	1153.9	1129.3	1132.1	1122.6	1099.0	1117.0	1125.5	1111.3	1043.2	942.9
87.5°	1082.0	1089.5	1069.7	1075.4	1040.4	1047.9	1059.3	1065.9	1059.3	998.7	915.5
90°	911.7	920.2	938.2	938.2	941.1	942.9	925.0	935.4	928.8	871.1	810.5
92.5°	808.6	816.2	817.2	818.1	810.5	835.1	805.8	787.8	783.1	736.8	693.3
95°	739.6	731.1	729.2	731.1	727.3	726.4	707.4	694.2	688.5	651.6	609.1
97.5°	578.8	583.5	581.7	586.4	576.9	576.0	559.9	542.9	537.2	506.9	478.6
100°	507.9	506.9	508.8	509.8	504.1	497.5	486.1	473.8	467.2	444.5	417.1
102.5°	476.7	475.7	479.5	480.5	475.7	471.0	461.5	454.0	448.3	427.5	397.2
105°	456.8	454.0	458.7	458.7	448.3	445.5	438.8	437.9	434.1	409.5	380.2
107.5°	429.4	424.7	430.3	429.4	425.6	422.8	417.1	413.3	410.5	389.7	356.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	403.8	397.2	*400.1*	402.0	404.8	402.9	398.2	390.6	383.0	366.0	338.6
112.5°	356.6	360.3	*359.4*	359.4	362.2	363.2	354.7	349.9	345.2	332.0	314.0
115°	338.6	338.6	*338.6*	338.6	331.0	328.2	319.7	314.0	313.1	297.0	285.6
117.5°	324.4	326.3	*331.0*	333.9	343.3	337.6	318.7	306.4	301.7	295.1	282.8
120°	382.1	375.5	*368.9*	367.9	368.9	365.1	361.3	352.8	341.4	323.5	289.4
122.5°	409.5	392.5	*395.3*	394.4	387.8	390.6	391.6	392.5	384.9	356.6	303.6
125°	343.3	338.6	*341.4*	344.3	345.2	344.3	342.4	350.9	340.5	331.0	291.3
127.5°	274.3	272.4	*266.7*	265.8	263.9	264.8	264.8	267.7	258.2	248.7	246.8
130°	261.0	257.3	*258.2*	259.1	258.2	252.5	248.7	244.0	243.1	233.6	220.4
132.5°	236.4	238.3	*254.4*	256.3	267.7	261.0	241.2	227.9	229.8	234.6	229.8
135°	221.3	220.4	*232.7*	233.6	250.6	245.9	229.8	214.7	214.7	226.0	221.3
137.5°	226.0	227.9	*228.9*	229.8	228.9	227.9	227.0	220.4	215.6	214.7	203.3
140°	243.1	242.1	*232.7*	233.6	232.7	232.7	238.3	243.1	227.0	212.8	193.9
142.5°	254.4	257.3	*253.5*	258.2	266.7	259.1	249.7	237.4	227.9	218.5	207.1
145°	345.2	338.6	*335.8*	333.9	328.2	312.1	302.7	290.4	279.0	263.9	245.0
147.5°	313.1	314.9	*309.3*	311.2	303.6	297.9	296.0	297.0	293.2	284.7	264.8
150°	248.7	250.6	*245.0*	242.1	239.3	239.3	239.3	241.2	236.4	230.8	221.3
152.5°	174.0	172.1	*170.2*	169.3	167.4	165.5	165.5	166.5	161.7	159.8	152.3
155°	159.8	158.9	*151.3*	149.4	151.3	153.2	154.2	151.3	147.5	143.8	133.4
157.5°	124.8	122.0	*121.1*	123.0	123.0	122.0	120.1	122.0	118.2	117.3	115.4
160°	102.1	101.2	*102.1*	102.1	103.1	103.1	102.1	102.1	100.3	101.2	101.2
162.5°	87.0	87.0	*87.0*	86.1	88.0	88.9	88.0	88.0	88.9	91.7	93.6
165°	74.7	74.7	*75.7*	75.7	76.6	76.6	77.6	78.5	80.4	87.0	92.7
167.5°	70.0	70.0	*70.9*	70.9	71.9	72.8	74.7	78.5	84.2	91.7	94.6
170°	69.0	69.0	*69.0*	69.0	70.0	70.9	74.7	80.4	87.0	91.7	88.9
172.5°	71.9	71.9	*72.8*	72.8	72.8	76.6	79.4	84.2	88.0	88.9	86.1
175°	74.7	73.8	*74.7*	74.7	75.7	78.5	82.3	84.2	86.1	87.0	88.0
177.5°	72.8	72.8	*72.8*	73.8	73.8	74.7	76.6	77.6	79.4	81.3	84.2
180°	70.9	70.9	*70.9*	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6
2.5°	443.6	431.3	335.8	287.5	328.2	407.6	415.2	359.4	279.0	193.9	176.9
5°	236.4	249.7	279.0	278.1	259.1	242.1	221.3	208.1	229.8	220.4	226.0
7.5°	213.7	201.5	206.2	241.2	235.5	178.8	161.7	157.9	176.9	220.4	215.6
10°	260.1	256.3	242.1	213.7	204.3	211.9	218.5	213.7	196.7	171.2	167.4
12.5°	294.1	289.4	291.3	309.3	287.5	238.3	210.9	202.4	211.9	249.7	257.3
15°	327.2	318.7	306.4	280.9	260.1	246.8	230.8	213.7	219.4	209.0	205.2
17.5°	349.9	336.7	311.2	292.2	271.4	254.4	240.2	222.3	210.0	207.1	208.1
20°	380.2	366.0	338.6	316.8	291.3	268.6	244.0	225.1	212.8	208.1	208.1
22.5°	415.2	398.2	367.0	336.7	308.3	279.0	249.7	228.9	217.5	212.8	210.9
25°	452.1	435.1	396.3	364.1	328.2	296.0	265.8	239.3	227.0	221.3	216.6
27.5°	489.9	469.1	430.3	390.6	351.8	314.0	281.8	254.4	237.4	227.9	228.9
30°	531.5	514.5	471.0	425.6	377.4	332.9	301.7	270.5	249.7	239.3	240.2
32.5°	587.3	559.9	507.9	455.9	408.6	359.4	319.7	283.7	261.0	254.4	255.4
35°	680.0	645.0	581.7	510.7	447.4	389.7	339.5	297.0	270.5	260.1	259.1
37.5°	847.4	800.1	727.3	644.1	552.3	458.7	377.4	312.1	279.0	262.0	259.1
40°	928.8	864.4	772.7	700.8	638.4	558.0	465.3	367.0	293.2	271.4	268.6
42.5°	1037.5	983.6	864.4	724.5	641.2	574.1	508.8	445.5	353.7	297.0	286.6
45°	1142.5	1094.3	1000.6	863.5	739.6	634.6	537.2	468.2	411.4	353.7	349.0
47.5°	1319.4	1268.3	1112.2	990.2	859.7	740.5	638.4	524.9	451.1	410.5	410.5
50°	1762.9	1669.3	1515.1	1327.9	1117.9	925.0	780.3	641.2	552.3	490.9	488.0
52.5°	2382.4	2250.0	2023.0	1815.9	1568.1	1344.9	1119.8	877.7	748.1	659.2	658.3
55°	3277.1	3141.9	2838.3	2440.1	2136.5	1869.8	1636.2	1370.4	1166.1	1022.4	1011.0
57.5°	4231.4	4117.9	3808.7	3314.0	2835.5	2363.5	2080.7	1868.9	1770.5	1670.3	1649.4
60°	4850.0	4655.1	4373.3	3901.4	3437.9	2836.4	2485.5	2242.5	2209.3	2187.6	2160.2
62.5°	5239.6	5009.8	4590.8	4025.3	3599.6	3030.3	2716.3	2457.1	2379.6	2263.3	2230.2
63°	*5284.1*	*5034.4*	*4625.8*	*4022.4*	*3604.4*	*3033.1*	*2733.3*	*2457.1*	*2366.3*	*2226.4*	*2204.6*
65°	5263.3	5031.6	4623.9	3963.8	3494.7	2977.3	2684.1	2344.6	2199.9	2014.5	1977.6
67.5°	4945.5	4698.6	4314.7	3665.9	3242.1	2714.4	2391.9	2031.5	1812.1	1630.5	1588.0
70°	4026.2	3873.0	3535.3	2974.5	2652.9	2241.5	1958.7	1675.9	1438.5	1247.5	1199.3
72.5°	3068.1	2907.3	2653.9	2289.7	2052.3	1769.6	1501.9	1284.4	1088.6	961.9	965.6
75°	2434.4	2281.2	2072.2	1832.9	1639.0	1387.5	1122.6	907.0	768.0	692.3	685.7
77.5°	1960.6	1854.7	1672.1	1451.8	1284.4	1021.4	785.9	597.7	494.6	451.1	438.8
80°	1511.4	1437.6	1301.4	1107.5	933.5	717.8	535.3	422.8	367.9	331.0	324.4
82.5°	1075.4	1030.9	917.4	782.2	663.9	551.4	469.1	395.3	338.6	307.4	297.9
85°	897.5	855.9	784.1	699.9	624.2	541.9	454.9	376.4	323.5	298.9	286.6
87.5°	871.1	832.3	763.2	673.4	591.1	502.2	414.3	340.5	302.7	279.0	271.4
90°	780.3	751.0	690.4	608.1	525.9	435.1	358.5	306.4	277.1	258.2	249.7
92.5°	672.5	646.9	596.8	527.7	458.7	393.4	334.8	291.3	262.0	243.1	236.4
95°	584.5	568.4	526.8	468.2	418.0	364.1	314.0	272.4	242.1	225.1	218.5
97.5°	466.3	447.4	417.1	376.4	338.6	300.8	263.9	235.5	213.7	202.4	196.7
100°	405.7	393.4	366.0	333.9	301.7	268.6	240.2	218.5	204.3	194.8	190.1
102.5°	382.1	373.6	348.0	315.9	285.6	253.5	225.1	205.2	194.8	186.3	182.5
105°	360.3	353.7	333.9	304.5	275.2	240.2	208.1	191.0	181.6	175.9	173.1
107.5°	337.6	330.1	311.2	282.8	257.3	227.0	198.6	177.8	165.5	158.9	157.9

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

Scaled Data Report

REPORT NUMBER: P1046435
CATALOG NUMBER: FFX-CLB-90-740-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	318.7	313.1	292.2	269.5	245.0	216.6	192.0	170.2	156.1	148.5	147.5
112.5°	298.9	292.2	271.4	249.7	228.9	204.3	182.5	163.6	150.4	142.8	141.9
115°	272.4	266.7	251.6	230.8	213.7	190.1	172.1	155.1	144.7	137.1	136.2
117.5°	275.2	259.1	238.3	219.4	204.3	187.3	171.2	157.9	141.9	133.4	133.4
120°	279.0	263.9	243.1	227.0	218.5	205.2	180.6	161.7	140.0	131.5	130.5
122.5°	275.2	277.1	265.8	249.7	232.7	210.0	179.7	158.9	137.1	130.5	131.5
125°	266.7	275.2	259.1	237.4	214.7	192.9	167.4	148.5	135.2	130.5	129.6
127.5°	241.2	239.3	218.5	202.4	186.3	168.3	152.3	140.9	131.5	125.8	123.0
130°	212.8	211.9	203.3	190.1	174.0	157.9	143.8	136.2	126.7	119.2	117.3
132.5°	224.2	221.3	203.3	181.6	163.6	150.4	140.9	132.4	119.2	110.7	109.7
135°	211.9	210.0	192.0	170.2	154.2	147.5	140.9	128.6	112.5	105.9	105.0
137.5°	193.9	186.3	171.2	157.9	150.4	148.5	140.0	125.8	110.7	103.1	102.1
140°	184.4	178.8	167.4	158.9	150.4	140.0	127.7	114.4	104.0	98.4	97.4
142.5°	195.8	193.9	176.9	161.7	148.5	136.2	123.0	114.4	103.1	95.5	94.6
145°	231.7	222.3	201.5	180.6	169.3	153.2	136.2	118.2	97.4	86.1	83.2
147.5°	253.5	245.0	224.2	201.5	176.9	151.3	124.8	102.1	86.1	77.6	75.7
150°	210.0	206.2	192.9	172.1	151.3	127.7	105.9	89.8	79.4	73.8	73.8
152.5°	147.5	146.6	140.9	128.6	115.4	102.1	90.8	81.3	75.7	71.9	71.9
155°	130.5	128.6	124.8	113.5	104.0	92.7	84.2	78.5	74.7	71.9	71.9
157.5°	112.5	110.7	109.7	101.2	93.6	86.1	79.4	74.7	71.9	70.0	69.0
160°	100.3	97.4	94.6	89.8	85.1	81.3	78.5	74.7	71.9	70.0	70.0
162.5°	93.6	91.7	87.0	83.2	81.3	81.3	82.3	80.4	74.7	71.9	70.9
165°	93.6	90.8	84.2	80.4	80.4	85.1	89.8	86.1	81.3	75.7	74.7
167.5°	94.6	92.7	86.1	83.2	86.1	91.7	96.5	95.5	88.9	84.2	84.2
170°	88.0	87.0	88.0	90.8	93.6	94.6	96.5	95.5	97.4	104.0	104.0
172.5°	85.1	86.1	90.8	95.5	101.2	101.2	96.5	95.5	104.0	113.5	115.4
175°	88.9	90.8	95.5	101.2	105.9	105.9	101.2	102.1	110.7	119.2	121.1
177.5°	85.1	86.1	88.0	87.0	88.9	84.2	86.1	84.2	87.0	87.0	87.0
180°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9

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

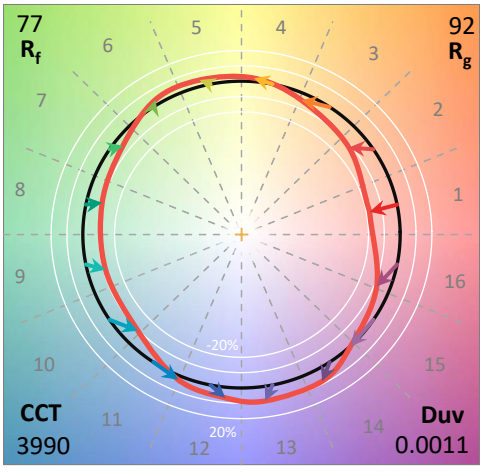
Test Information

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

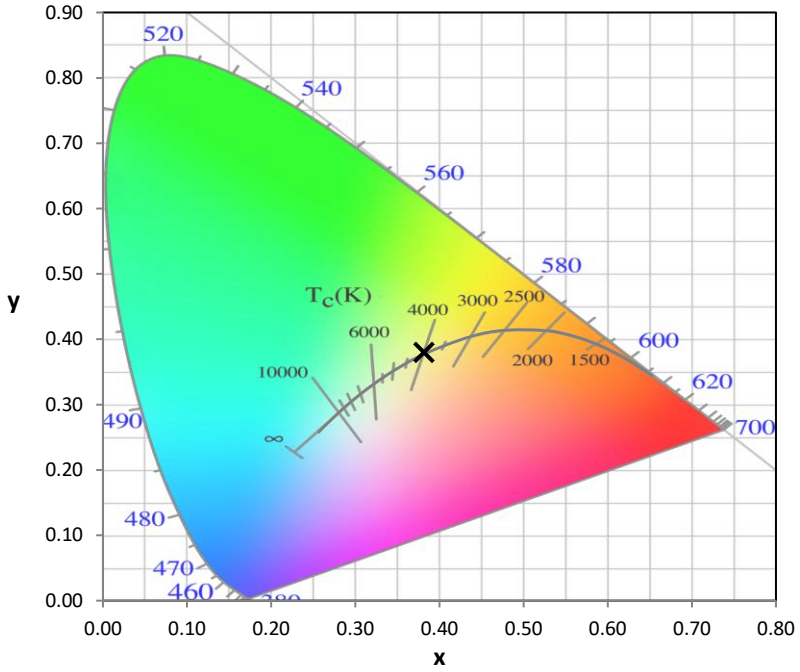
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

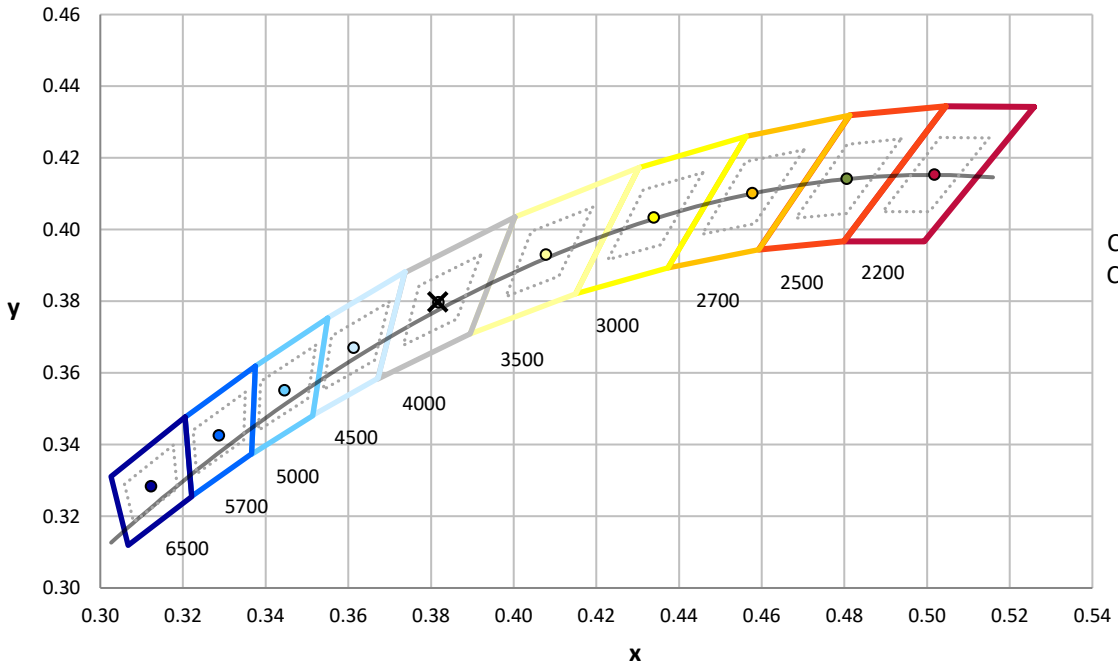
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

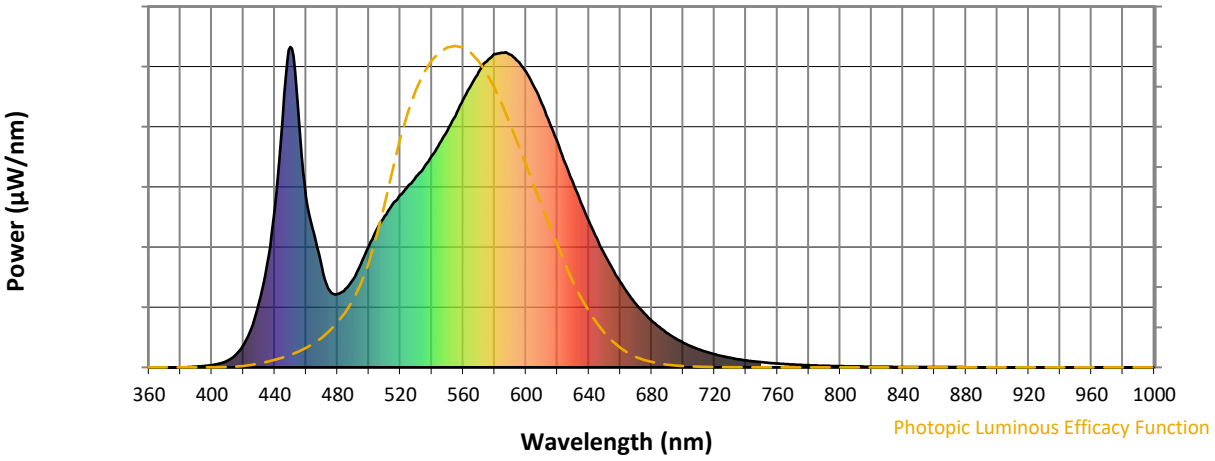


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

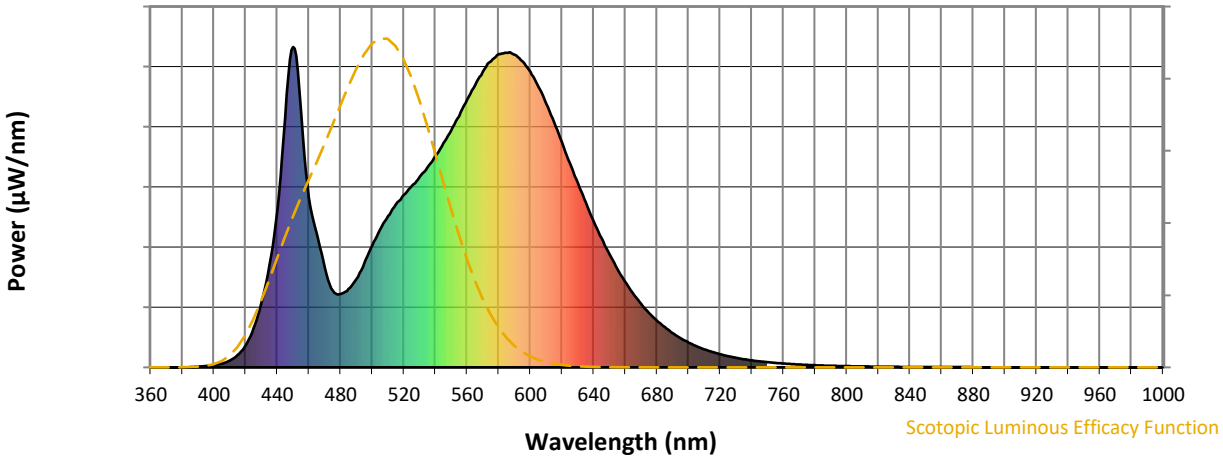


Photopic Lumens: NR

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

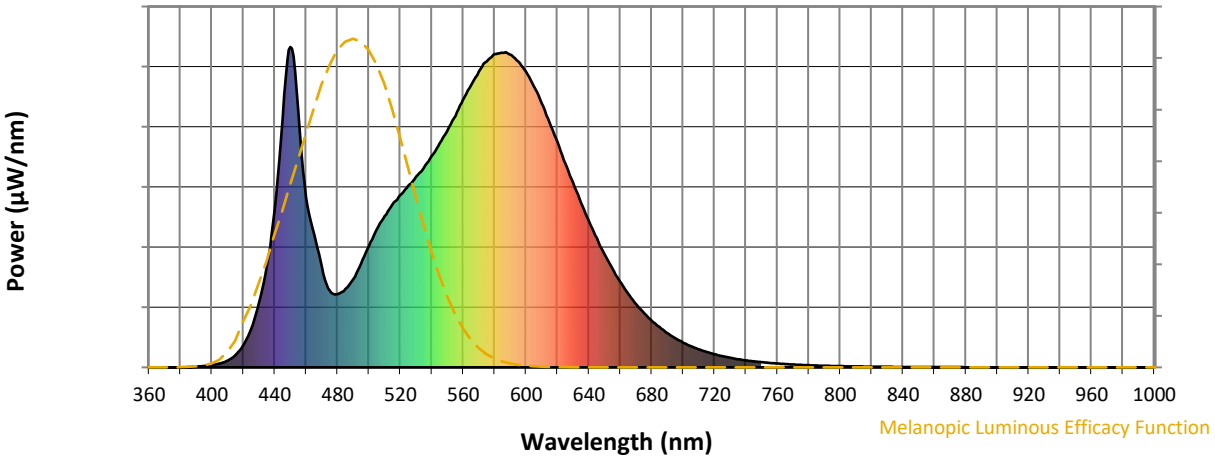


Scotopic Lumens: NR **S/P: 1.59**

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			

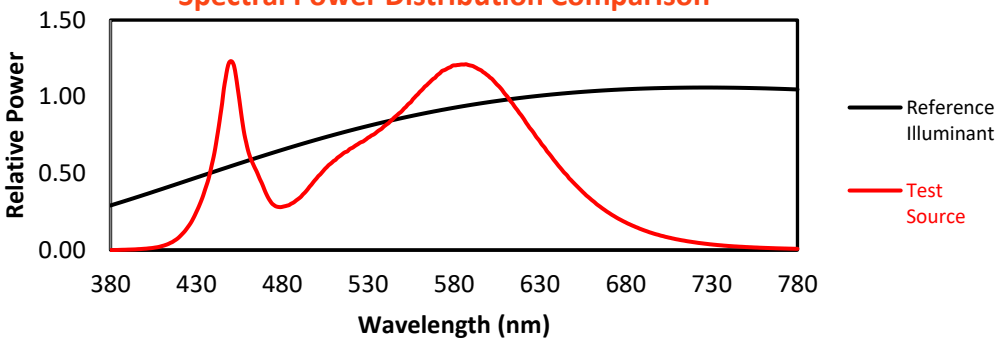
REPORT NUMBER: SP1-2501-332-1

TM-30-18

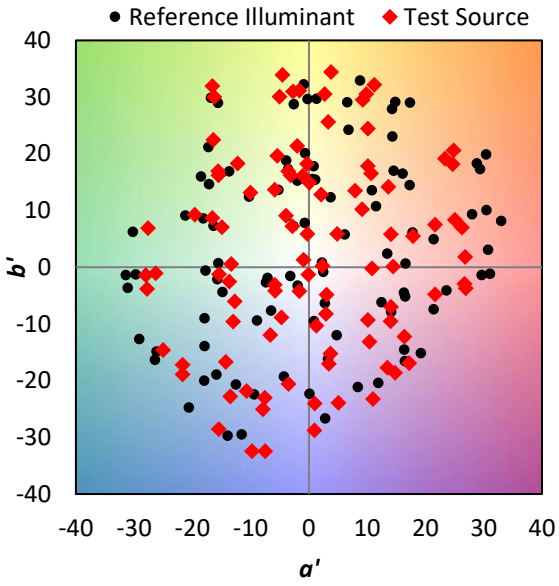
Summary

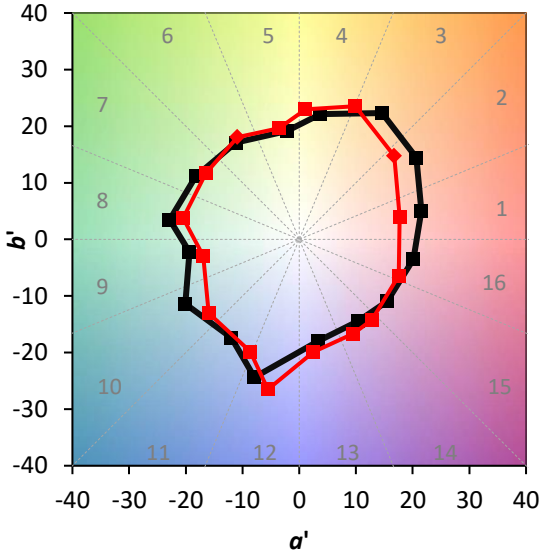
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

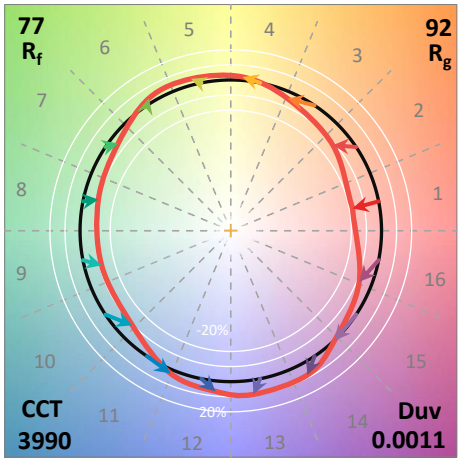
Spectral Power Distribution Comparison

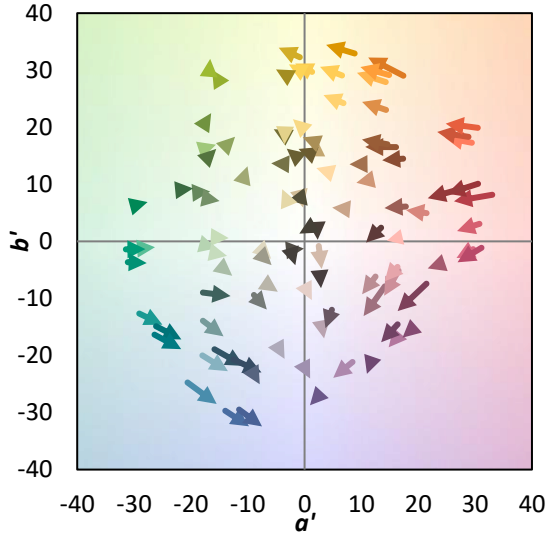


Color Vector Graphics







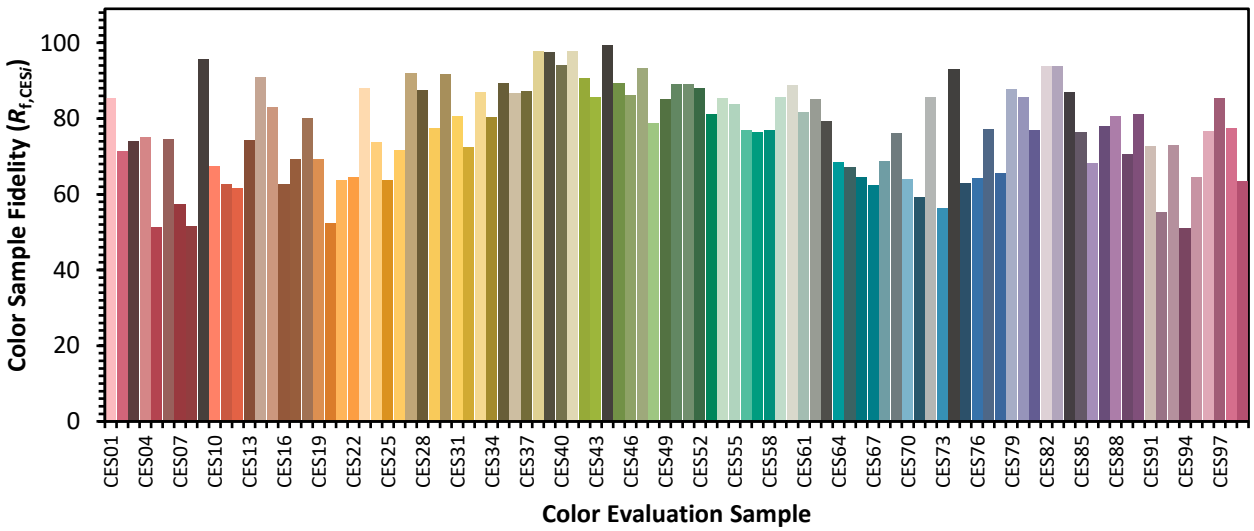


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

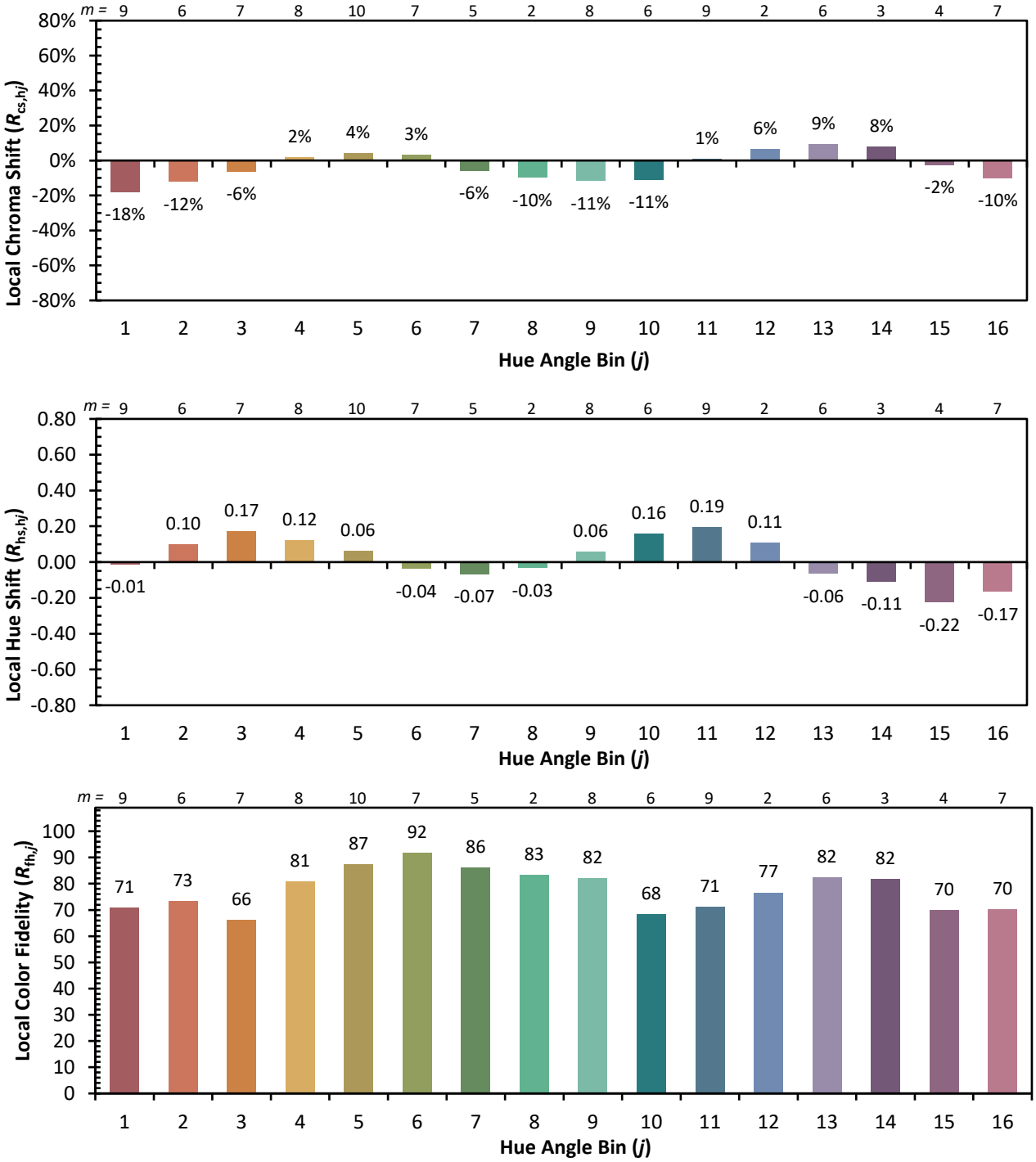
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57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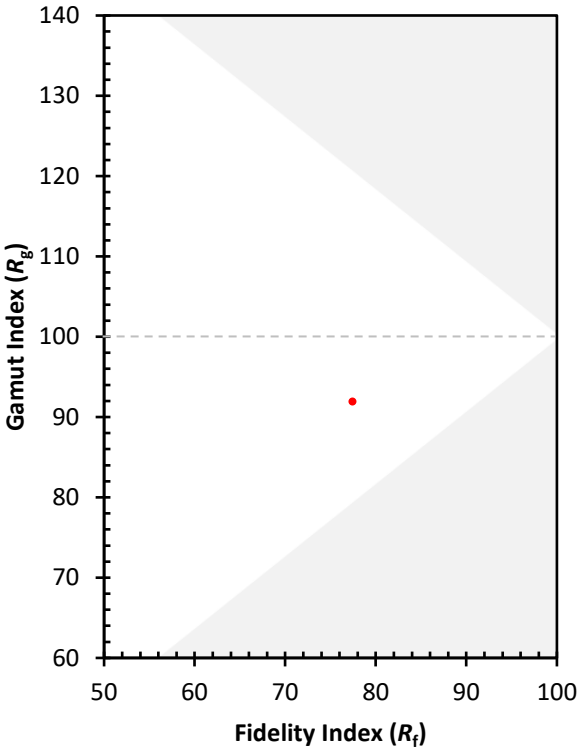
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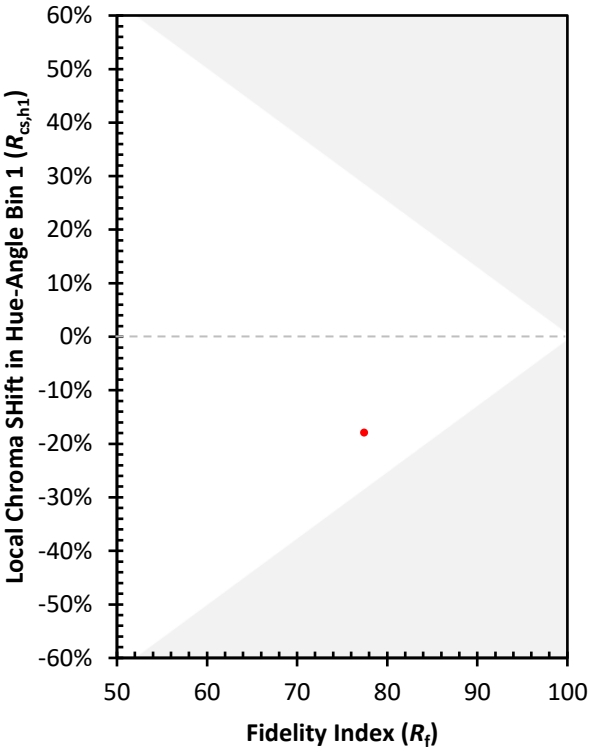


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Measure Comparisons





(END OF REPORT)