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: P1223955

Luminaire Tested: **FFX-CLB-50-740-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223955
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7407.5 lumens
Efficiency:	N/A
Efficacy:	146.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

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

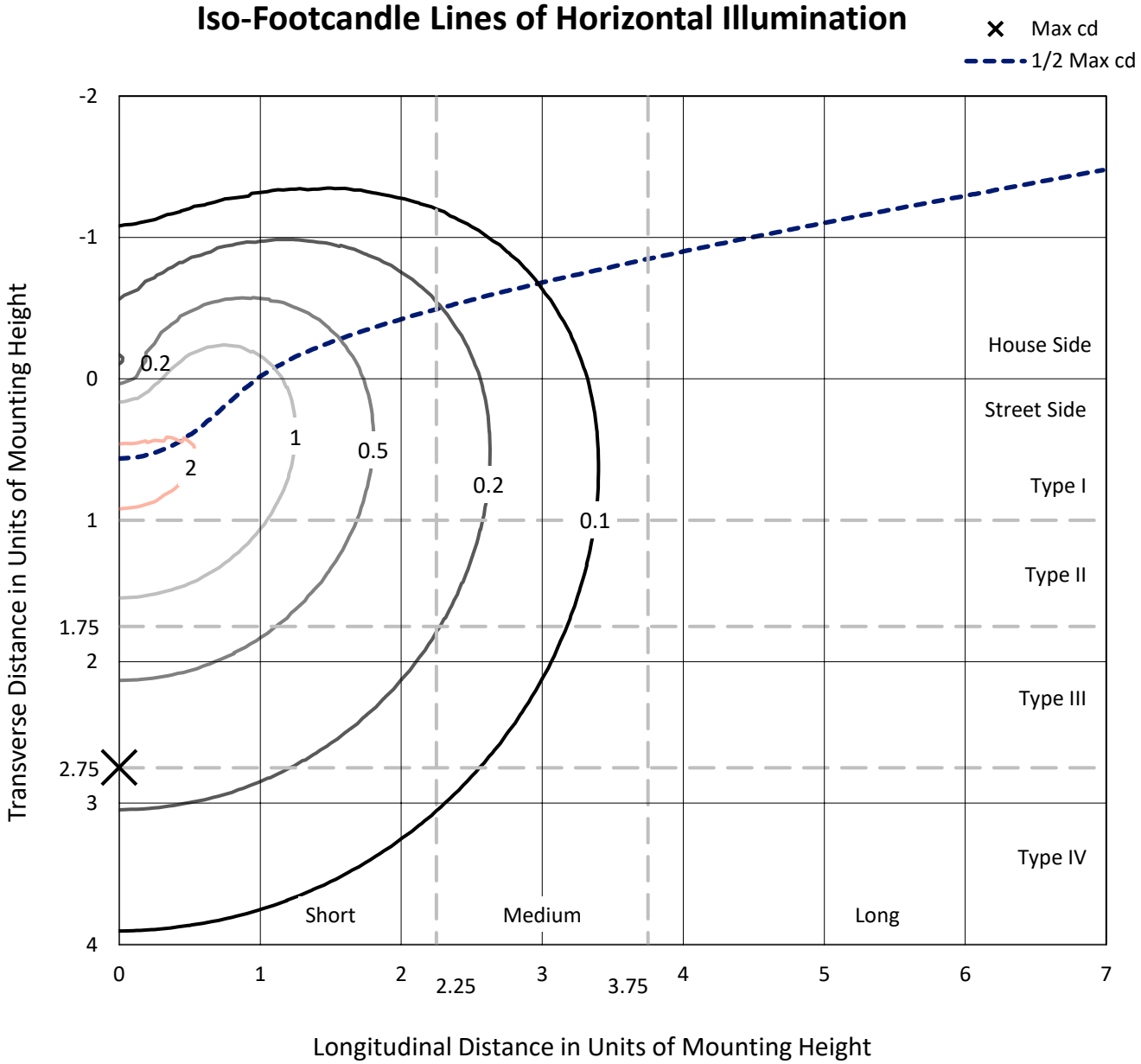


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Iso-Footcandle Lines of Horizontal Illumination



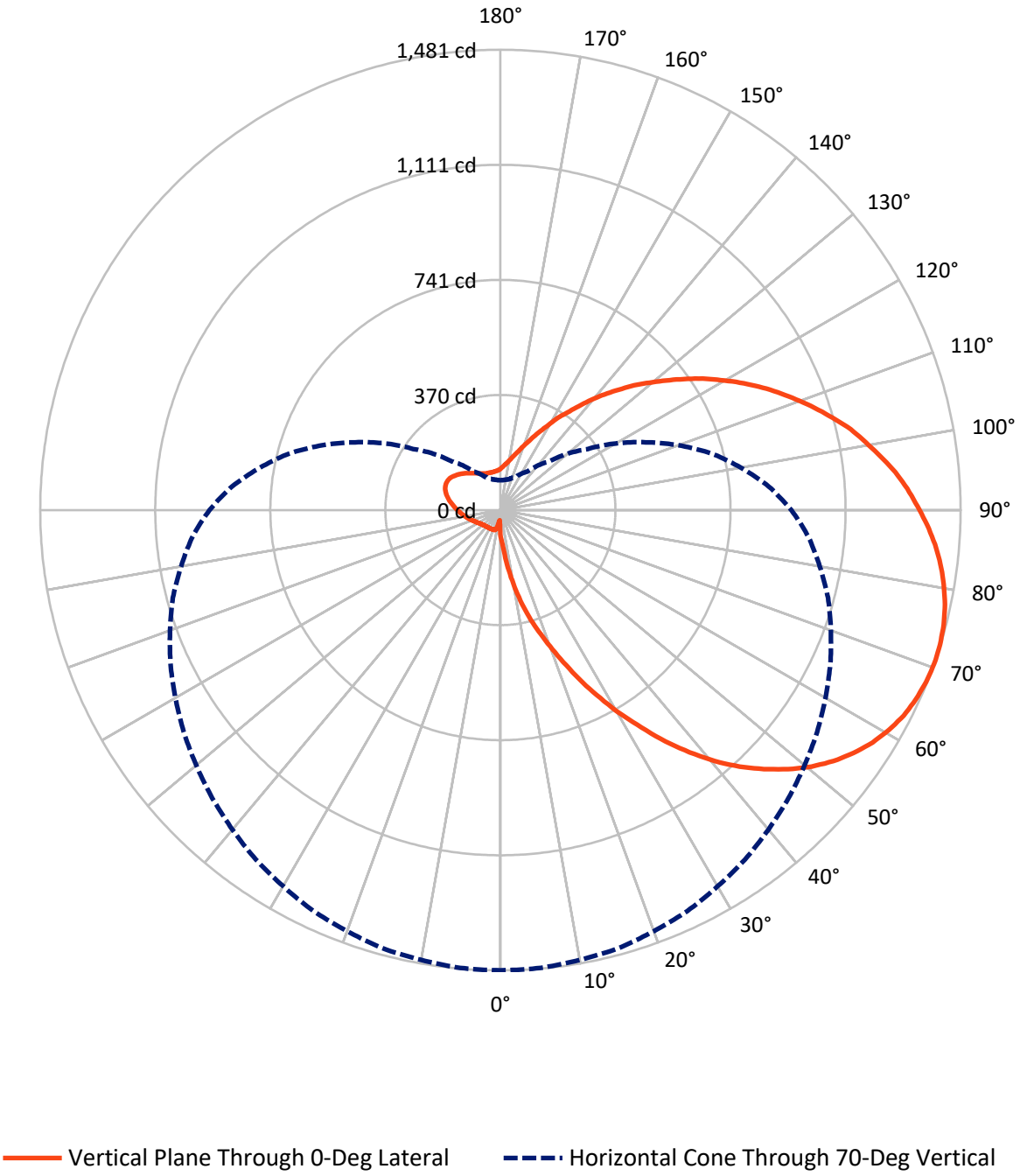
Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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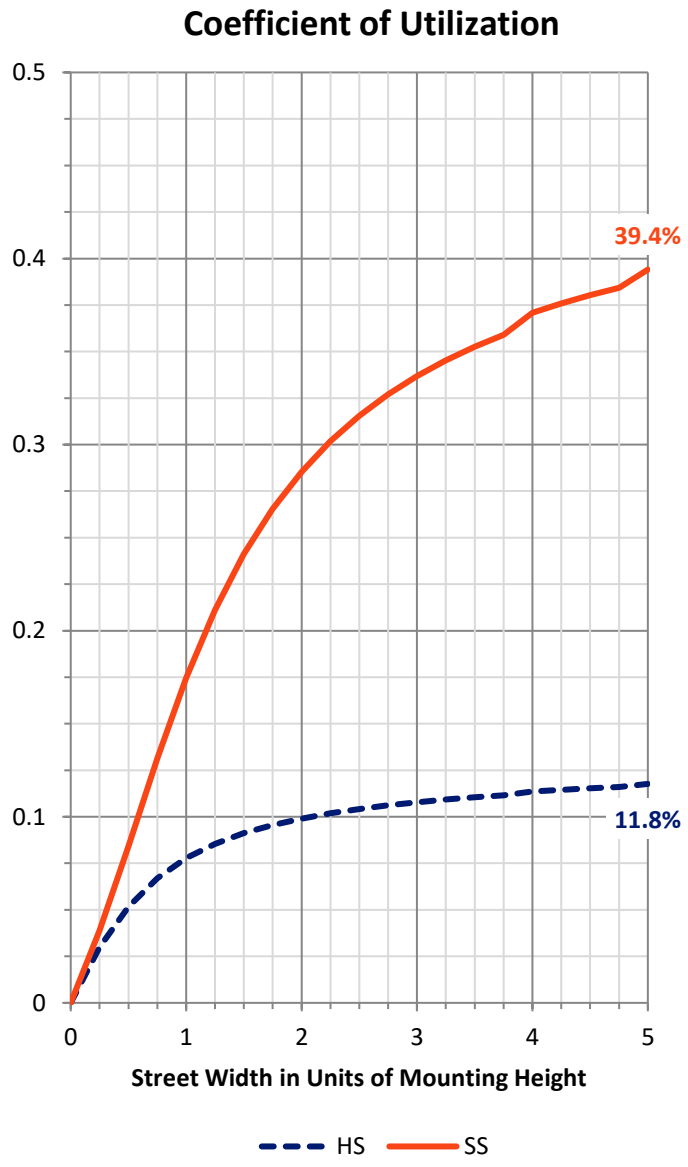
REPORT NUMBER: P1223955
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.8	916.4	1866.2
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	3336.4	2204.8	5541.2
	% Fixture	45.0	29.8	74.8
Total	Lumens	4286.2	3121.2	7407.5
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.2
10°-20°	64.8	0.9
20°-30°	170.4	2.3
30°-40°	331.0	4.5
40°-50°	515.7	7.0
50°-60°	680.4	9.2
60°-70°	798.9	10.8
70°-80°	859.5	11.6
80°-90°	854.6	11.5
90°-100°	794.5	10.7
100°-110°	697.6	9.4
110°-120°	573.8	7.7
120°-130°	431.9	5.8
130°-140°	292.7	4.0
140°-150°	177.3	2.4
150°-160°	95.4	1.3
160°-170°	44.9	0.6
170°-180°	13.0	0.2
0°-90°	4286.2	57.9
0°-180°	7407.5	100.0



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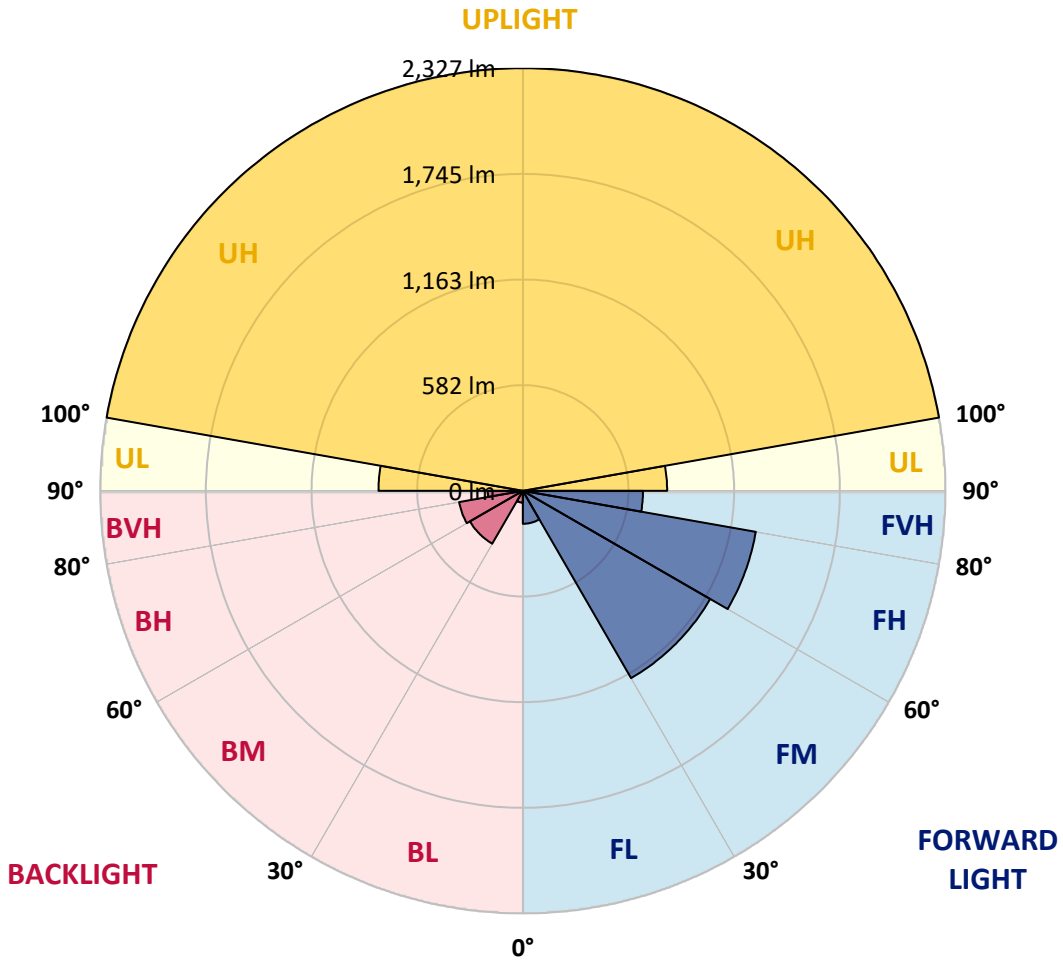
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	181.5	2.4			
FM	(30°-60°)	1190.9	16.1			
FH	(60°-80°)	1302.4	17.6			G1/1800
FVH	(80°-90°)	661.6	8.9			G4/750
BL	(0°-30°)	64.8	0.9	B0/110		
BM	(30°-60°)	336.1	4.5	B1/1000		
BH	(60°-80°)	355.9	4.8	B1/500		G1/500
BVH	(80°-90°)	192.9	2.6			G2/225
UL	(90°-100°)	794.5	10.7		U4/1000	
UH	(100°-180°)	2326.7	31.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2.5°	103.2	103.7	103.2	103.2	104.3	103.2	102.1	98.3	94.0	88.5	85.8
5°	144.5	144.5	147.2	147.2	144.5	138.5	131.4	121.7	113.0	103.7	97.2
7.5°	197.2	198.3	196.1	190.6	187.4	175.4	168.4	155.9	145.0	132.5	126.6
10°	252.0	252.6	249.9	245.0	234.6	222.7	212.4	197.7	183.6	167.3	158.6
12.5°	310.7	309.6	304.7	293.8	287.9	274.3	260.7	245.5	226.5	206.4	196.1
15°	366.6	364.5	362.3	350.9	342.7	329.2	313.4	292.8	270.5	248.2	233.0
17.5°	420.4	415.5	412.3	406.8	394.3	382.4	362.3	337.8	313.9	284.6	268.9
20°	478.0	479.1	473.6	466.0	452.5	435.1	415.5	389.4	359.6	324.8	305.8
22.5°	542.6	542.6	539.4	529.6	515.5	493.2	470.4	443.2	406.3	369.9	346.5
25°	614.3	610.5	606.2	593.7	581.7	557.8	530.7	501.3	462.8	418.8	392.7
27.5°	685.5	683.8	679.5	665.9	650.7	625.7	598.6	560.5	518.7	467.1	440.0
30°	761.0	759.3	755.0	742.0	719.7	695.2	662.7	621.9	576.3	518.2	488.3
32.5°	833.7	833.7	828.3	814.7	791.4	762.1	727.3	681.7	631.2	571.4	535.6
35°	914.7	914.1	904.4	888.1	859.8	834.3	795.2	747.4	690.4	621.9	583.9
37.5°	989.1	986.4	976.6	959.2	933.1	900.0	856.0	803.3	744.7	671.9	629.0
40°	1062.4	1059.2	1050.5	1030.9	999.4	961.9	916.9	860.4	794.1	718.6	674.1
42.5°	1128.7	1127.6	1115.1	1091.7	1060.2	1017.9	969.5	909.8	843.5	762.1	714.8
45°	1189.0	1189.0	1176.5	1151.0	1115.1	1072.2	1019.0	957.6	887.0	801.7	751.7
47.5°	1246.0	1246.0	1234.1	1204.7	1165.1	1117.8	1063.5	1000.0	925.0	837.6	784.3
50°	1297.6	1295.4	1281.9	1249.3	1209.1	1159.6	1102.6	1035.8	960.3	869.6	815.8
52.5°	1342.1	1339.4	1323.7	1293.3	1248.2	1195.5	1135.7	1067.9	989.1	897.3	842.4
55°	1379.6	1378.0	1362.8	1328.0	1280.8	1228.1	1164.5	1093.9	1016.3	920.7	865.3
57.5°	1412.2	1409.5	1391.6	1356.3	1309.0	1251.4	1187.3	1117.3	1036.9	941.8	884.3
60°	1436.7	1433.9	1415.5	1380.2	1332.4	1271.5	1207.4	1136.3	1054.8	958.7	900.0
62.5°	1456.8	1453.5	1435.6	1398.1	1348.1	1288.4	1222.7	1150.4	1068.9	972.3	913.6
65°	1469.2	1466.5	1449.1	1411.7	1360.1	1299.8	1234.1	1161.3	1080.3	982.6	923.9
67.5°	1477.4	1475.2	1457.3	1420.9	1369.3	1307.9	1241.1	1168.3	1087.9	990.2	931.5
70°	1481.2	1479.0	1460.6	1423.6	1372.6	1311.2	1244.4	1171.6	1091.7	995.6	936.4
71°	1481.2	1479.0	1461.1	1424.2	1373.1	1311.7	1244.9	1172.1	1092.3	996.2	936.9
72.5°	1479.6	1477.9	1460.0	1422.5	1371.5	1310.6	1243.3	1171.6	1092.3	996.7	938.0
75°	1473.6	1470.3	1453.0	1416.6	1366.0	1305.2	1238.4	1166.7	1089.0	995.1	936.9
77.5°	1462.7	1460.0	1442.1	1406.8	1356.3	1294.9	1228.6	1158.6	1082.5	989.6	932.6
80°	1447.0	1444.3	1426.9	1390.5	1340.5	1281.3	1215.0	1146.1	1071.1	980.9	925.0
82.5°	1426.9	1424.7	1407.9	1371.5	1322.0	1263.4	1197.1	1129.8	1058.6	969.0	914.1
85°	1403.0	1400.3	1381.8	1345.9	1298.7	1240.0	1175.4	1110.2	1040.7	954.3	901.1
87.5°	1374.2	1372.6	1354.1	1319.9	1272.6	1214.5	1152.6	1089.0	1020.6	938.0	886.4
90°	1342.7	1342.1	1322.6	1288.4	1241.7	1186.8	1125.4	1063.5	997.2	918.5	868.5
92.5°	1311.2	1311.2	1291.6	1256.3	1210.2	1155.8	1097.7	1038.0	975.0	898.9	851.1
95°	1276.4	1272.6	1254.2	1222.7	1176.5	1124.3	1068.4	1009.7	948.9	876.7	831.6
97.5°	1235.7	1234.6	1216.7	1183.0	1140.6	1090.7	1036.3	982.0	923.4	853.8	810.9
100°	1196.0	1193.9	1177.0	1146.1	1102.6	1054.8	1003.8	951.6	896.2	830.5	789.2
102.5°	1156.9	1151.5	1134.1	1102.6	1064.6	1017.9	970.1	922.3	868.0	805.5	766.9
105°	1109.7	1109.1	1091.2	1061.3	1022.8	981.5	936.4	889.7	840.3	780.0	744.1
107.5°	1063.5	1063.5	1046.7	1017.3	980.9	941.3	901.1	857.1	811.5	753.4	720.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1016.3*	1015.7	1000.5	974.4	939.7	901.6	864.7	824.5	778.9	727.8	695.8
112.5°	*969.5*	968.5	953.8	927.2	895.1	864.2	827.2	790.3	748.5	701.2	670.8
115°	*922.3*	921.2	905.4	882.1	852.8	820.7	789.8	754.4	718.1	670.8	644.2
117.5°	*873.4*	872.3	859.3	836.5	808.8	783.2	752.3	721.9	684.9	642.0	615.4
120°	*823.4*	824.0	810.9	790.3	764.8	740.9	713.7	686.0	651.8	611.1	585.5
122.5°	*776.2*	772.4	763.7	745.2	722.4	700.1	677.3	649.1	617.0	578.5	556.2
125°	*725.7*	724.6	715.9	697.4	677.9	660.5	639.3	613.8	584.4	545.3	525.2
127.5°	*676.8*	678.4	668.6	655.0	636.0	621.4	599.6	577.4	549.1	513.8	494.8
130°	*631.2*	630.1	624.6	610.5	594.8	579.6	563.3	543.2	516.5	481.2	463.9
132.5°	*588.8*	583.9	579.0	567.1	554.0	541.5	527.4	507.3	480.2	449.2	434.0
135°	*542.6*	542.6	535.0	524.7	515.5	503.5	489.4	470.9	447.6	420.4	403.0
137.5°	*500.2*	498.1	493.2	485.0	476.4	467.7	455.7	437.2	416.6	390.5	375.3
140°	*460.1*	458.4	454.1	447.0	440.0	431.8	420.9	405.2	386.2	361.2	348.2
142.5°	*418.2*	419.3	415.5	410.6	402.5	397.0	387.3	373.2	356.3	334.6	322.1
145°	*380.8*	381.3	379.7	374.8	368.8	363.4	353.1	342.7	326.4	306.9	297.7
147.5°	*349.8*	347.6	344.4	341.6	336.2	331.9	323.7	313.9	298.7	281.9	273.2
150°	*315.0*	316.7	313.4	310.1	306.9	300.9	294.9	286.8	272.7	259.1	249.9
152.5°	*285.7*	286.8	284.1	282.4	279.2	274.3	268.3	260.7	249.9	237.9	229.2
155°	*259.6*	259.6	259.6	257.5	253.7	250.4	244.4	237.4	228.1	217.3	211.3
157.5°	*235.7*	236.3	236.3	233.6	230.8	228.1	223.2	217.3	209.1	199.9	195.5
160°	*216.7*	215.6	215.1	212.9	210.7	208.6	204.2	199.3	192.3	184.7	180.9
162.5°	*197.7*	197.7	196.6	195.0	193.4	190.1	187.4	182.5	177.6	172.2	167.8
165°	*183.0*	182.5	182.5	180.3	178.7	176.0	173.3	170.0	165.7	160.8	157.5
167.5°	*170.6*	169.5	168.9	167.8	165.7	164.0	161.3	158.6	155.3	152.1	149.4
170°	*158.6*	159.1	158.1	157.0	155.9	154.3	152.1	149.9	147.2	143.9	142.9
172.5°	*150.5*	149.9	149.4	148.3	147.2	145.6	144.5	142.3	140.7	138.5	137.4
175°	*142.9*	142.9	142.3	141.2	140.1	139.0	138.0	136.9	135.8	134.2	133.6
177.5°	*136.9*	136.9	136.9	135.8	135.2	134.7	133.6	133.1	132.5	131.4	131.4
180°	*130.9*	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2.5°	83.1	76.0	70.1	64.6	60.3	56.5	54.3	50.5	47.8	46.2
5°	93.4	83.1	74.4	65.7	59.2	52.1	45.1	38.0	33.7	33.1
7.5°	118.4	107.0	94.0	82.6	69.5	58.7	49.4	42.4	39.7	39.1
10°	149.9	133.1	115.7	98.9	82.0	68.4	58.7	52.1	48.9	48.3
12.5°	184.7	161.9	139.6	117.9	97.8	82.6	70.6	63.0	59.2	59.2
15°	220.5	192.3	164.0	137.4	114.1	95.1	80.4	70.6	66.3	65.7
17.5°	252.0	220.0	186.3	154.8	126.6	102.7	85.3	73.3	67.9	67.4
20°	287.9	247.1	208.6	169.5	136.3	108.6	88.0	74.4	67.4	66.8
22.5°	325.9	279.7	231.9	186.3	146.7	114.6	90.7	75.5	67.9	66.8
25°	368.8	313.4	255.8	203.1	157.0	120.0	93.4	76.6	68.4	67.4
27.5°	409.5	348.2	281.4	218.9	166.2	124.9	95.6	77.7	69.0	67.9
30°	453.0	382.4	306.3	235.7	176.0	129.8	97.8	78.2	69.0	67.9
32.5°	497.0	415.5	332.4	250.9	184.1	133.1	98.9	78.8	69.5	68.4
35°	543.7	451.4	356.9	266.7	191.7	136.3	99.9	79.3	69.5	68.4
37.5°	586.6	485.6	380.8	280.3	198.3	139.0	101.0	79.3	70.1	69.0
40°	625.2	516.5	401.9	292.2	203.7	140.7	101.6	79.8	70.6	69.5
42.5°	663.2	547.0	420.9	302.0	208.0	141.8	102.1	80.4	71.2	70.1
45°	696.9	572.5	438.3	311.2	211.3	142.9	102.7	80.9	71.7	70.6
47.5°	726.7	596.4	454.6	318.8	213.5	143.4	103.2	81.5	72.8	71.7
50°	755.5	619.2	467.1	324.8	215.6	143.9	103.2	82.6	74.4	73.3
52.5°	780.0	637.7	478.5	329.7	216.7	144.5	104.3	83.6	75.5	75.0
55°	801.2	654.0	488.8	333.5	217.8	144.5	105.4	85.3	77.7	76.6
57.5°	818.5	667.0	495.9	335.7	217.8	145.0	105.9	87.4	79.8	78.8
60°	833.7	678.4	502.4	338.4	218.3	145.6	107.5	89.6	82.6	82.0
62.5°	846.2	687.1	507.3	340.0	218.9	147.2	109.7	92.3	85.3	84.7
65°	856.0	694.7	511.1	341.1	219.4	148.3	111.9	95.1	89.1	88.5
67.5°	862.5	700.1	513.8	341.6	220.0	149.9	114.6	98.9	92.9	91.8
70°	*867.4*	*703.4*	*515.5*	*342.2*	*221.1*	*151.5*	*117.9*	*102.1*	*96.7*	*96.1*
71°	868.5	703.9	516.0	342.2	221.6	152.6	119.0	103.7	98.3	97.8
72.5°	869.1	704.5	516.0	342.2	222.2	154.3	121.1	106.5	101.0	100.5
75°	868.5	703.9	515.5	342.2	223.2	157.0	124.9	110.3	105.4	104.8
77.5°	864.7	701.8	513.8	342.2	224.9	160.2	129.3	115.7	110.3	109.7
80°	858.2	697.4	511.1	341.6	226.5	164.0	133.6	120.6	115.1	114.6
82.5°	849.5	690.9	507.3	341.6	228.7	167.3	138.0	124.9	120.6	120.0
85°	838.1	683.3	503.5	341.1	231.4	171.6	143.4	130.9	126.6	125.5
87.5°	824.5	674.1	499.2	341.1	234.1	176.5	148.8	136.3	132.0	130.9
90°	809.3	663.7	494.8	341.1	237.4	181.4	154.8	142.3	137.4	136.9
92.5°	794.1	654.0	490.5	341.6	241.7	186.8	160.8	148.8	143.9	143.9
95°	776.7	642.0	485.6	342.7	246.1	192.8	167.8	155.3	150.5	149.9
97.5°	759.3	631.2	481.8	344.4	250.9	199.9	174.4	162.4	157.5	156.4
100°	739.8	619.7	478.0	346.5	256.9	206.4	181.4	169.5	164.6	164.0
102.5°	720.8	607.3	473.6	349.3	262.9	214.0	189.0	176.5	171.6	171.1
105°	700.1	594.2	468.7	351.4	268.9	221.1	196.1	183.0	177.6	177.6
107.5°	680.0	580.6	463.9	354.1	274.8	228.1	202.6	189.6	183.6	183.0

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

Scaled Data Report

REPORT NUMBER: P1223955
CATALOG NUMBER: FFX-CLB-50-740-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	657.2	566.0	457.9	355.8	280.3	234.1	208.6	194.5	188.5	187.9
112.5°	636.6	550.2	451.4	356.3	285.2	239.5	213.5	198.8	192.8	191.7
115°	610.5	533.9	442.7	355.2	287.9	243.9	216.7	201.5	195.0	193.9
117.5°	585.5	515.5	433.4	352.5	289.5	246.1	218.9	203.1	196.1	195.0
120°	560.0	494.8	420.4	347.6	287.9	246.1	218.9	202.1	195.0	194.5
122.5°	531.2	473.1	406.8	340.6	285.2	243.9	216.7	200.4	192.8	192.3
125°	501.3	449.7	390.5	330.8	279.7	240.6	213.5	197.2	189.6	189.0
127.5°	472.5	425.8	373.7	319.4	272.1	235.2	209.1	192.3	184.7	183.6
130°	444.3	400.9	354.7	305.8	262.9	228.1	203.1	187.4	179.8	178.7
132.5°	415.0	377.0	335.7	292.8	253.1	220.5	196.6	181.4	174.4	173.3
135°	387.3	352.0	315.0	277.0	241.7	211.8	189.6	175.4	168.4	167.8
137.5°	360.7	328.6	296.0	261.8	230.3	203.1	182.5	169.5	162.9	161.9
140°	333.5	305.8	276.5	247.1	217.8	193.9	175.4	162.9	157.0	155.9
142.5°	310.1	284.1	258.0	230.8	205.9	184.1	167.8	156.4	151.5	151.0
145°	285.7	262.9	239.5	216.2	194.5	175.4	160.8	151.0	146.1	145.6
147.5°	264.0	242.2	222.2	202.1	183.0	166.2	153.7	145.6	141.8	141.2
150°	241.7	224.3	206.9	188.5	172.2	158.1	147.7	140.7	136.9	136.3
152.5°	222.2	207.5	191.7	177.6	162.4	151.0	142.3	135.8	133.1	132.5
155°	205.3	192.8	179.8	166.7	154.8	145.6	138.0	132.5	130.4	130.4
157.5°	190.6	179.8	168.9	158.1	148.3	140.1	134.2	130.4	128.2	127.6
160°	176.5	167.8	158.1	149.9	142.3	136.3	131.4	128.2	126.6	126.0
162.5°	165.1	157.5	151.0	143.9	138.0	133.1	129.3	126.6	125.5	125.5
165°	155.3	149.9	143.9	139.0	134.2	130.4	127.6	126.0	124.9	124.9
167.5°	147.7	142.9	139.0	134.7	131.4	128.7	126.6	125.5	124.9	124.4
170°	141.2	138.0	134.7	132.0	129.3	127.6	126.0	125.5	124.9	124.9
172.5°	136.3	134.2	132.0	129.8	128.2	126.6	126.0	125.5	125.5	125.5
175°	132.5	131.4	129.8	128.7	127.6	127.1	126.6	126.6	126.6	126.6
177.5°	130.9	129.8	129.3	128.7	128.2	128.2	128.2	128.7	128.7	128.7
180°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9

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

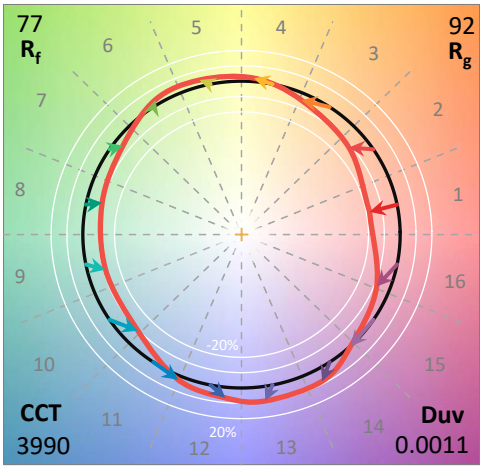
Test Information

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

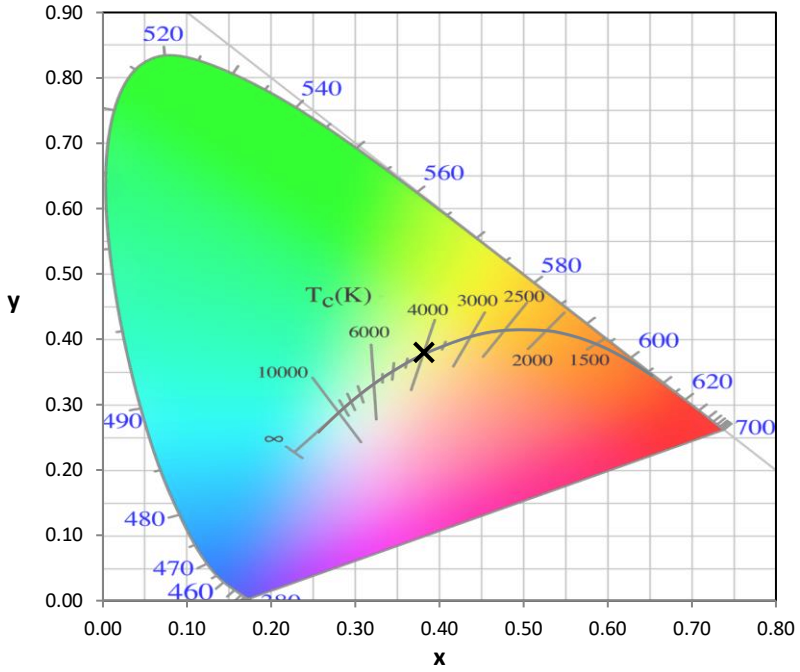
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

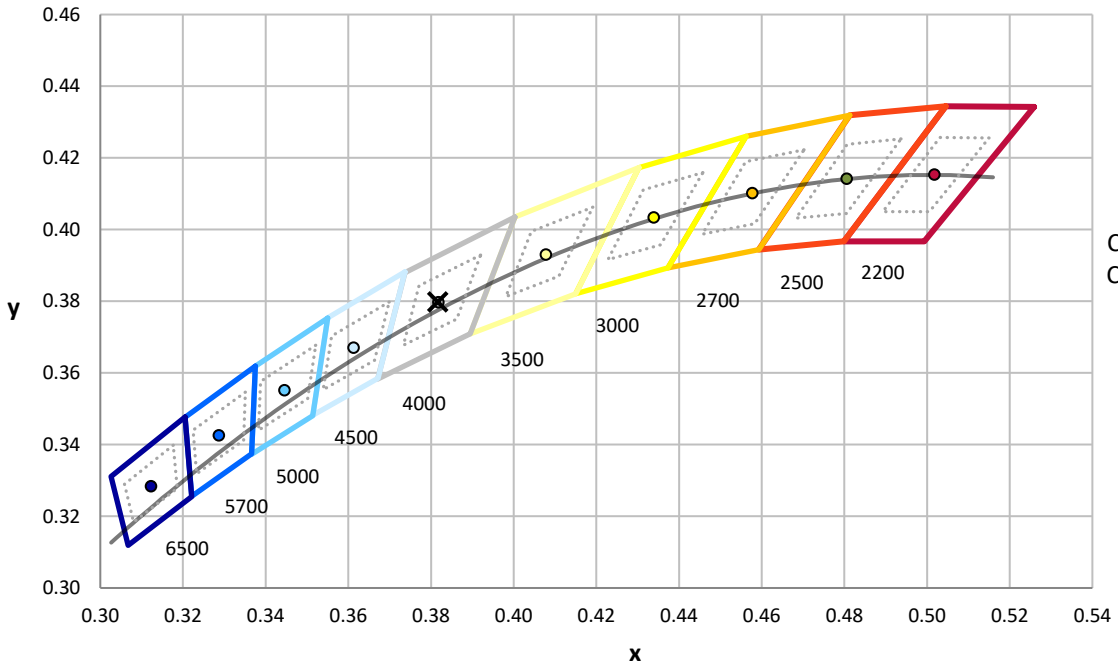
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

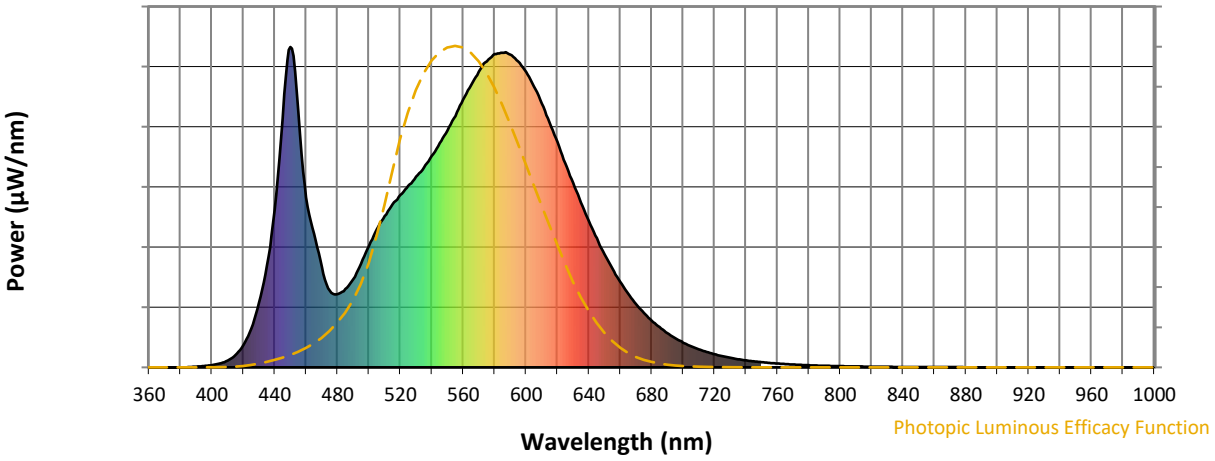


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

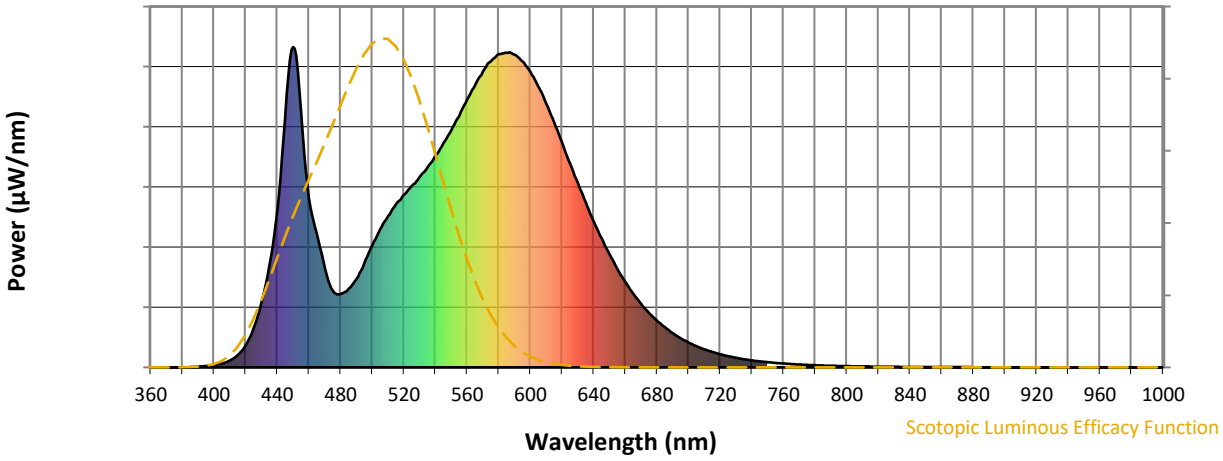


Photopic Lumens: NR

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

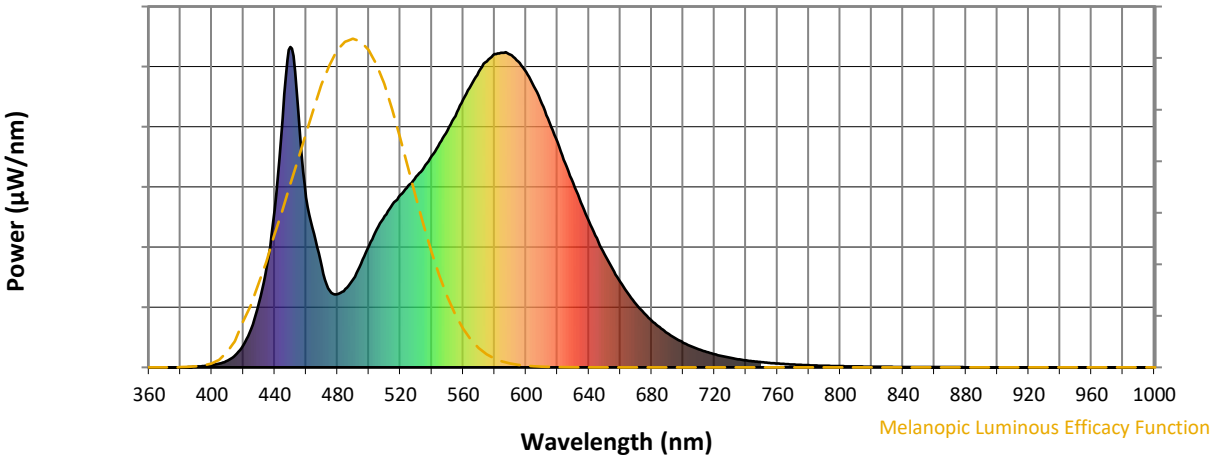


Scotopic Lumens: NR **S/P: 1.59**

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			

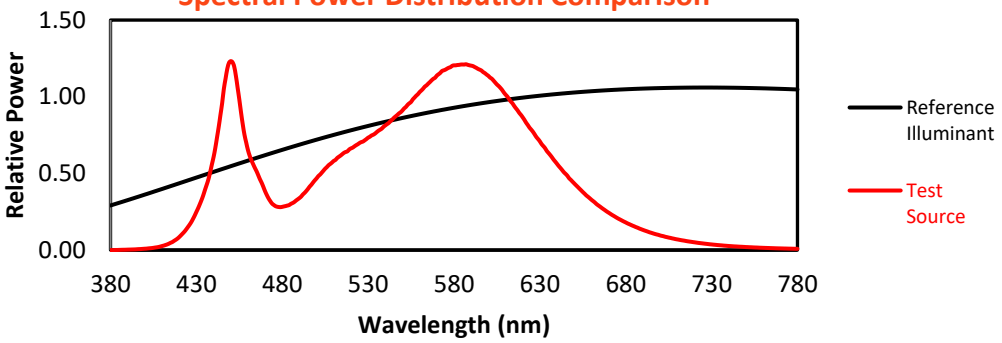
REPORT NUMBER: SP1-2501-332-1

TM-30-18

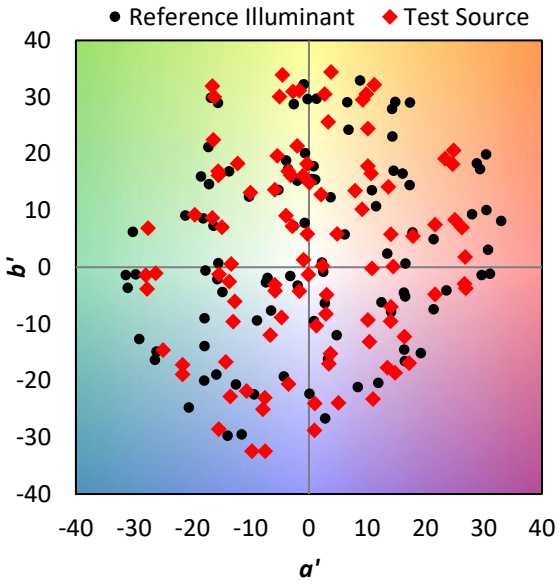
Summary

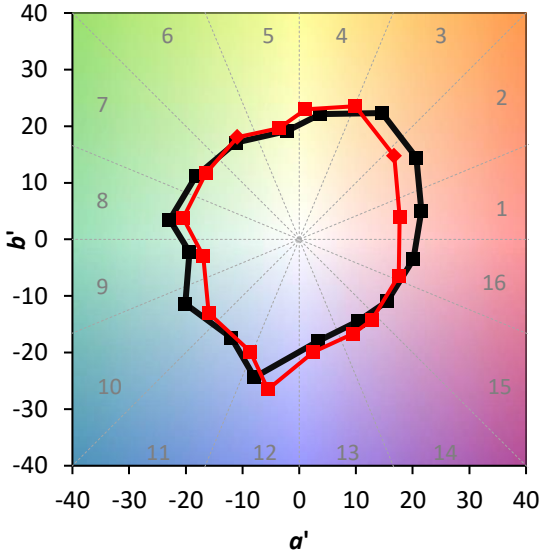
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

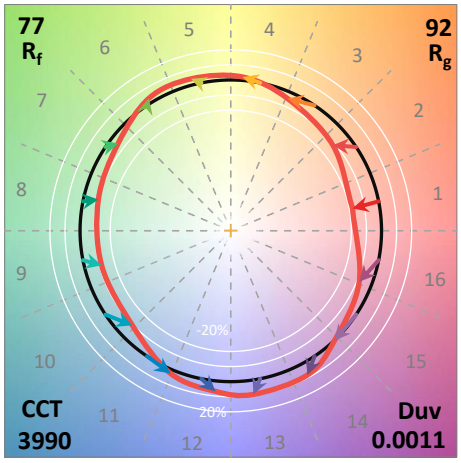
Spectral Power Distribution Comparison

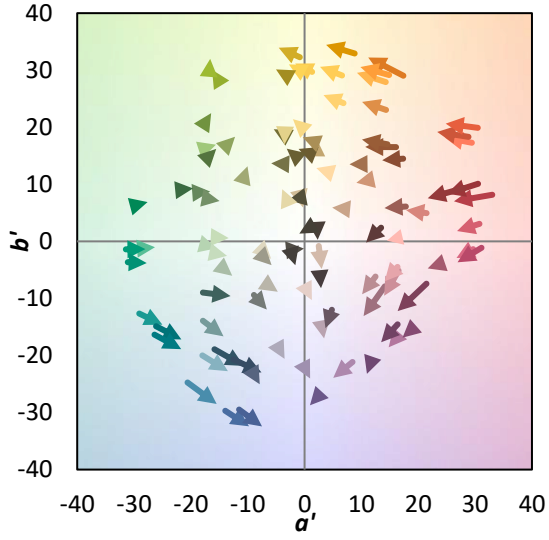


Color Vector Graphics







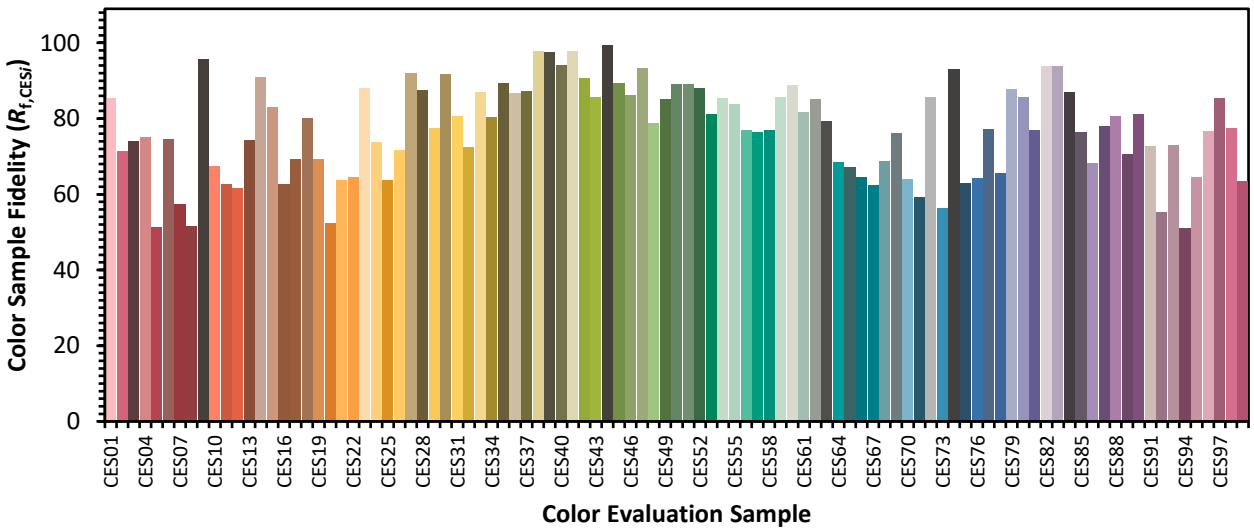


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

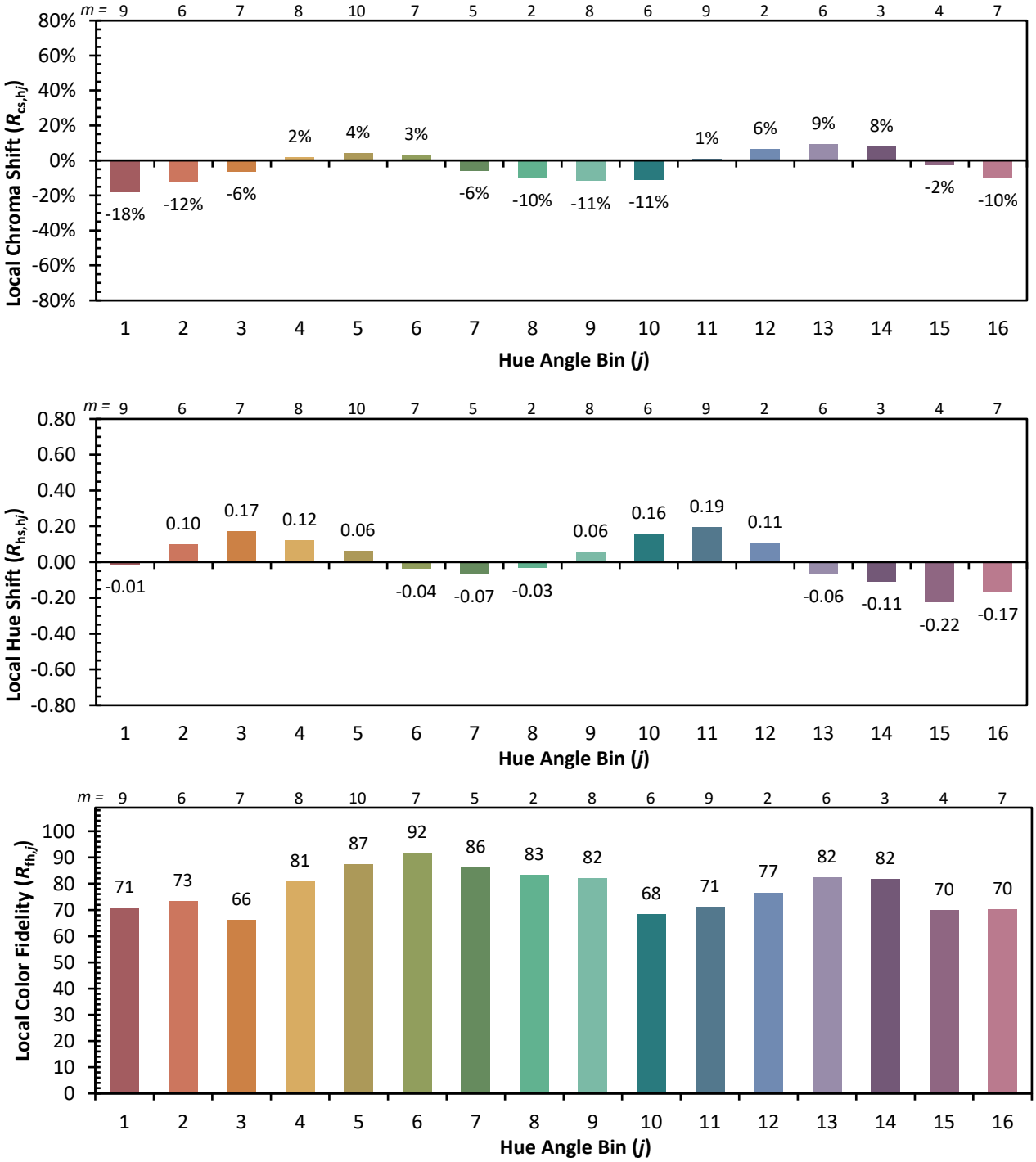
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57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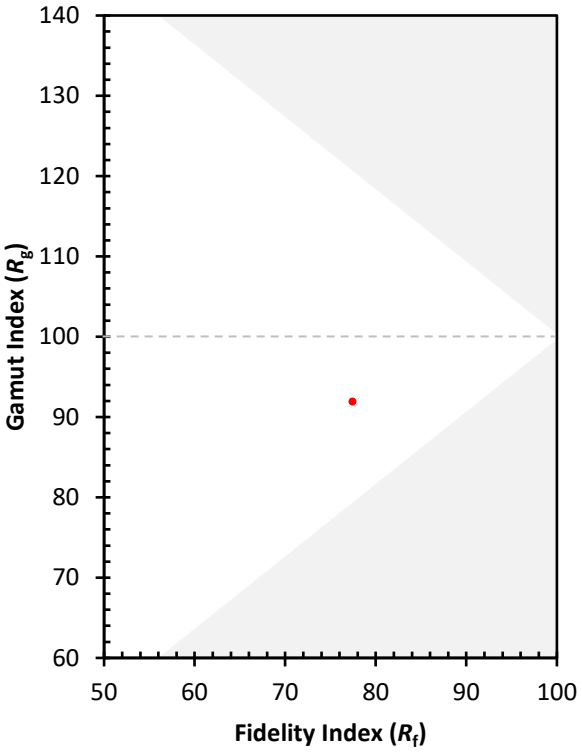
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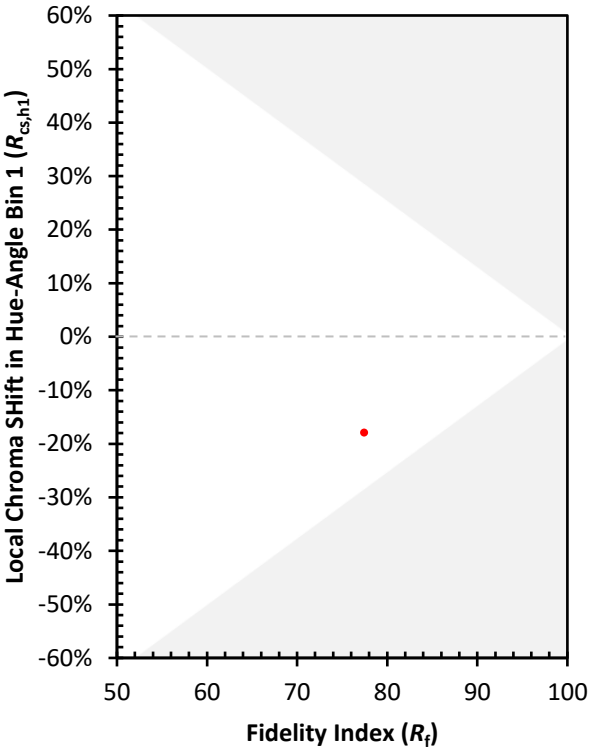


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Measure Comparisons





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