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: P1223956

Luminaire Tested: **FFX-CLB-40-740-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:	P1223956
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-740-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:	5842.3 lumens
Efficiency:	N/A
Efficacy:	148.3 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

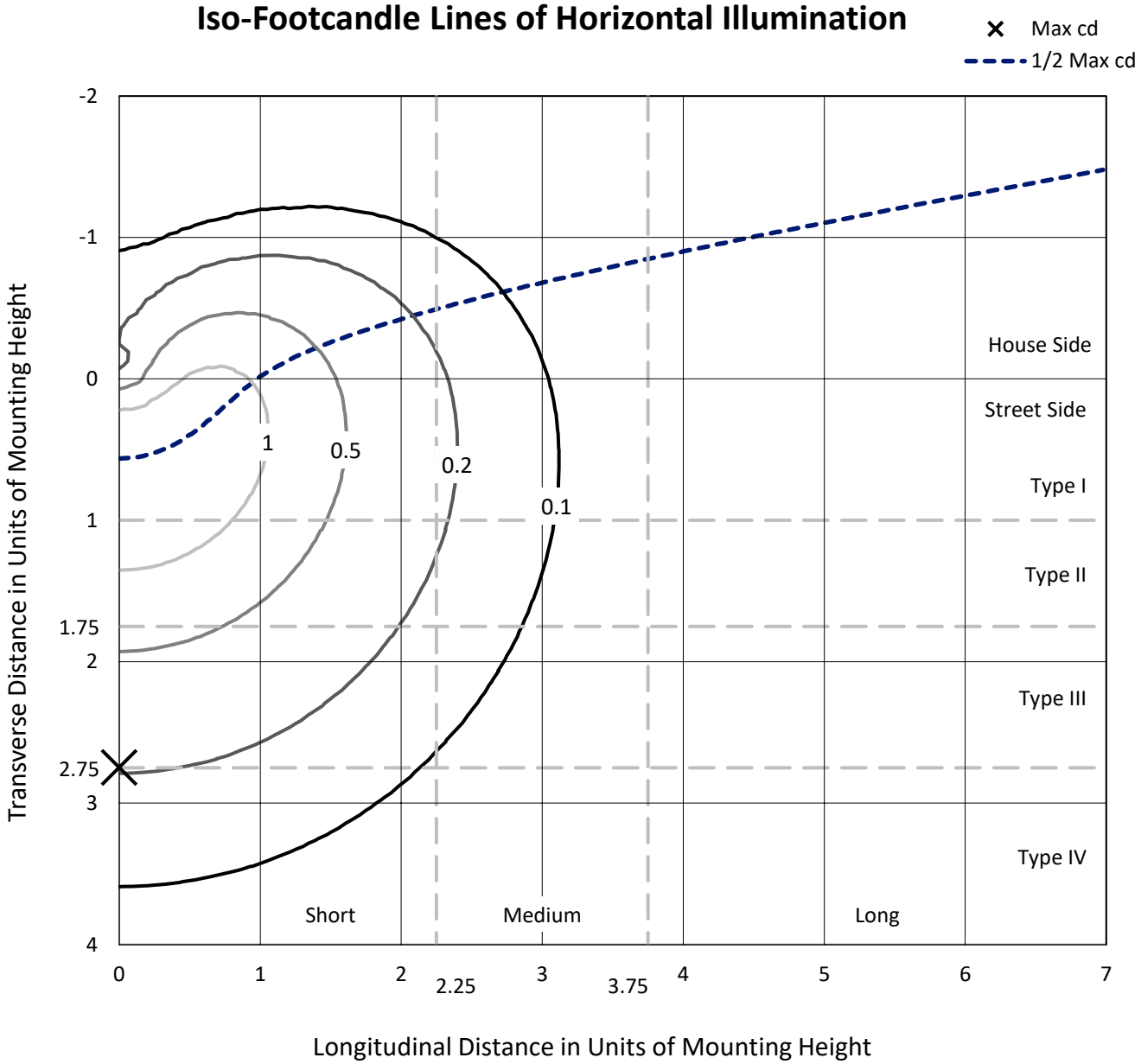


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Iso-Footcandle Lines of Horizontal Illumination



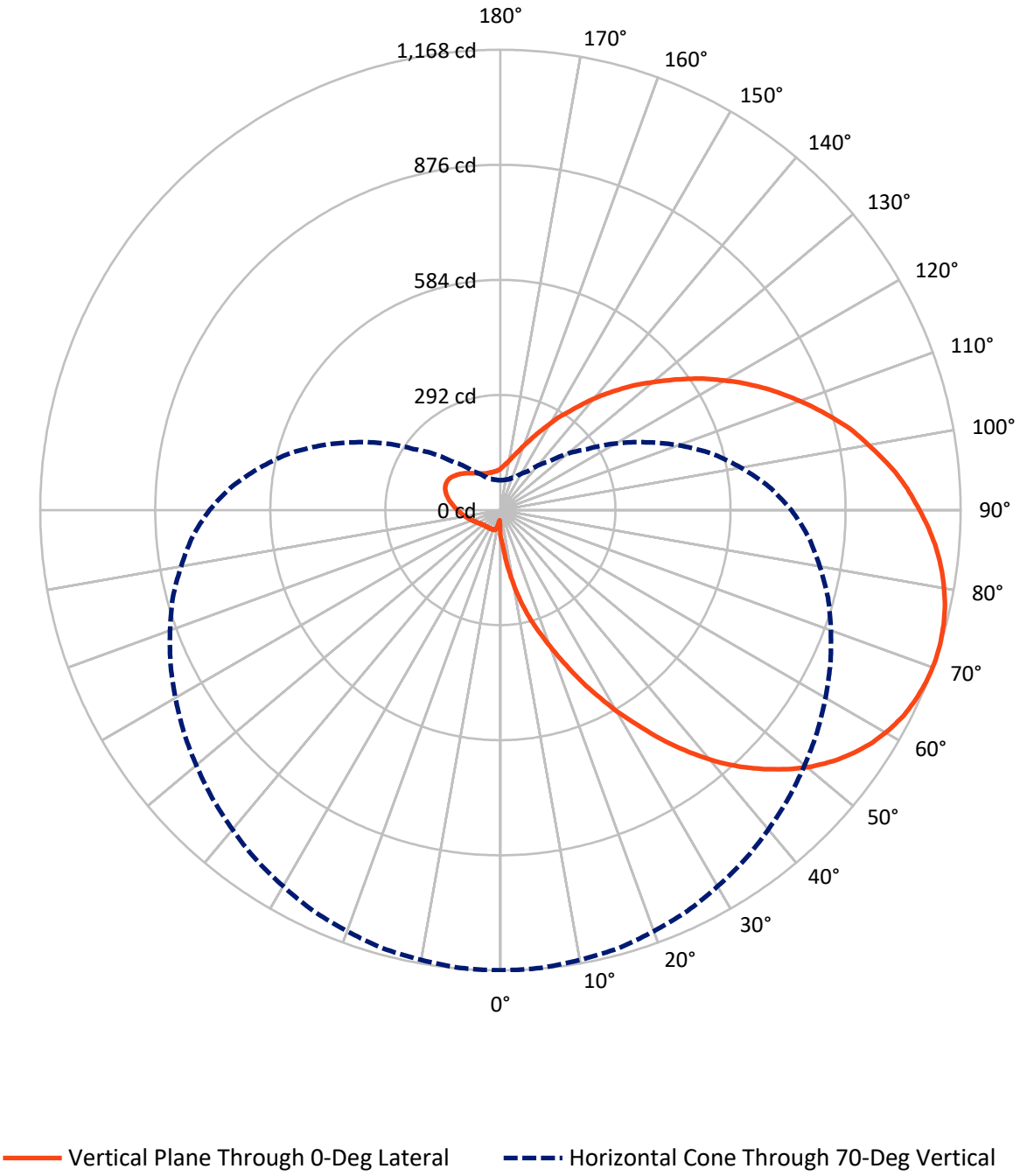
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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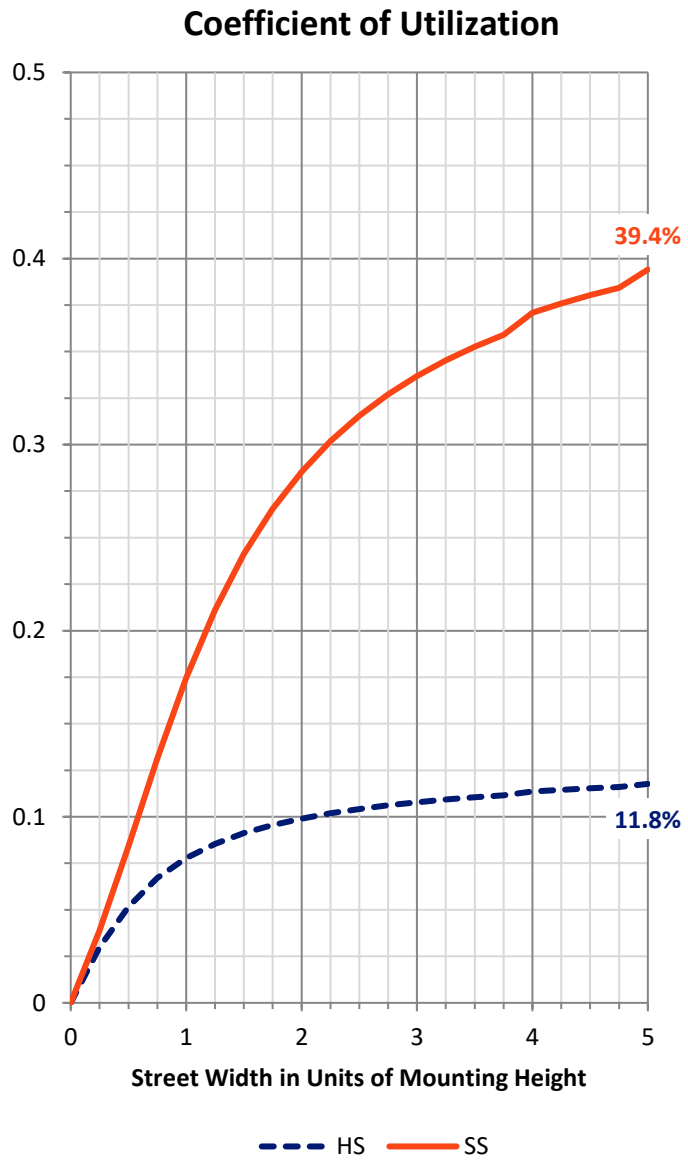
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.1	722.8	1471.9
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	2631.4	1738.9	4370.4
	% Fixture	45.0	29.8	74.8
Total	Lumens	3380.6	2461.7	5842.3
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.2
10°-20°	51.1	0.9
20°-30°	134.4	2.3
30°-40°	261.0	4.5
40°-50°	406.7	7.0
50°-60°	536.6	9.2
60°-70°	630.1	10.8
70°-80°	677.9	11.6
80°-90°	674.0	11.5
90°-100°	626.7	10.7
100°-110°	550.2	9.4
110°-120°	452.5	7.7
120°-130°	340.7	5.8
130°-140°	230.9	4.0
140°-150°	139.8	2.4
150°-160°	75.3	1.3
160°-170°	35.4	0.6
170°-180°	10.3	0.2
0°-90°	3380.6	57.9
0°-180°	5842.3	100.0



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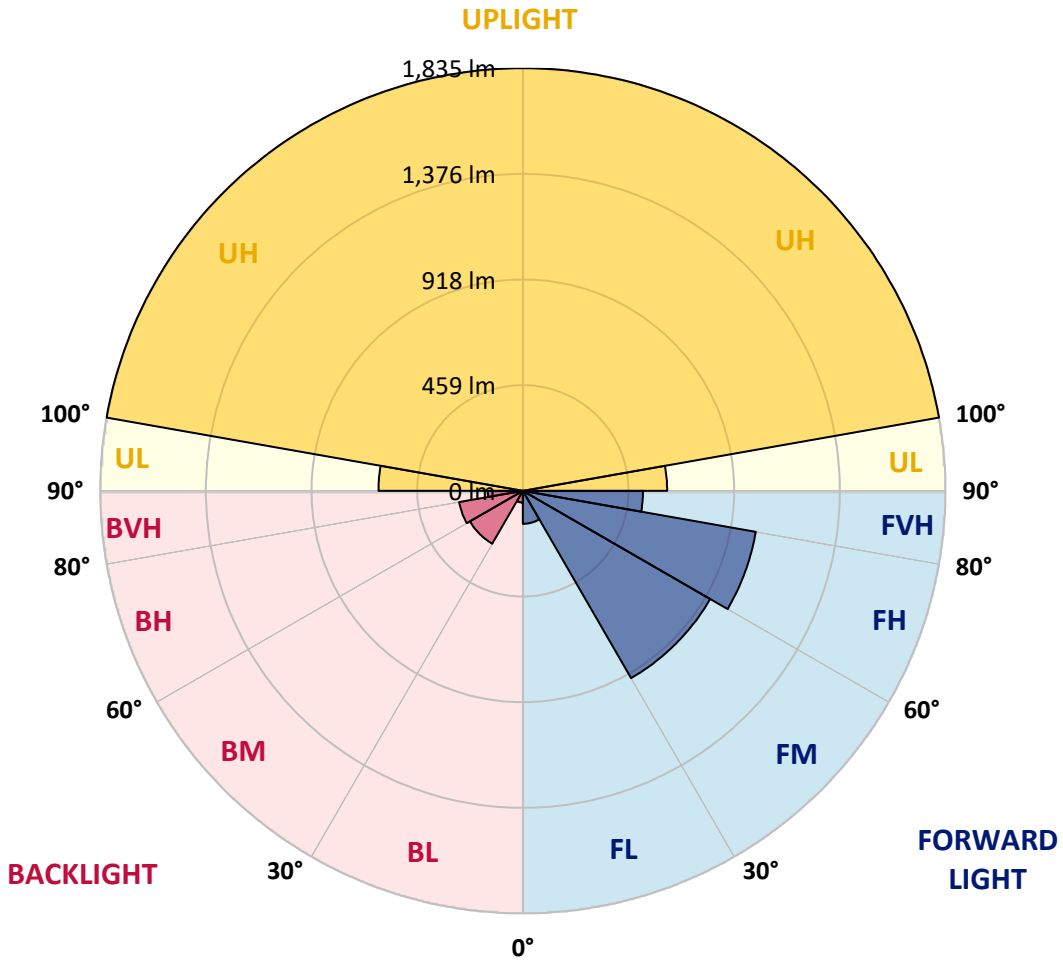
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	143.1	2.4			
FM	(30°-60°)	939.3	16.1			
FH	(60°-80°)	1027.2	17.6			G1/1800
FVH	(80°-90°)	521.8	8.9			G4/750
BL	(0°-30°)	51.1	0.9	B0/110		
BM	(30°-60°)	265.1	4.5	B1/1000		
BH	(60°-80°)	280.7	4.8	B1/500		G1/500
BVH	(80°-90°)	152.2	2.6			G2/225
UL	(90°-100°)	626.7	10.7		U4/1000	
UH	(100°-180°)	1835.1	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°	*66.8*	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2.5°	*81.4*	81.8	81.4	81.4	82.3	81.4	80.5	77.5	74.1	69.8	67.7
5°	*114.0*	114.0	116.1	116.1	114.0	109.2	103.7	96.0	89.1	81.8	76.7
7.5°	*155.5*	156.4	154.6	150.4	147.8	138.4	132.8	122.9	114.4	104.5	99.8
10°	*198.8*	199.2	197.1	193.2	185.1	175.6	167.5	155.9	144.8	131.9	125.1
12.5°	*245.0*	244.2	240.3	231.8	227.0	216.3	205.6	193.6	178.6	162.8	154.6
15°	*289.2*	287.4	285.7	276.7	270.3	259.6	247.2	230.9	213.3	195.8	183.8
17.5°	*331.6*	327.7	325.1	320.9	311.0	301.6	285.7	266.5	247.6	224.5	212.1
20°	*377.0*	377.8	373.6	367.6	356.8	343.1	327.7	307.2	283.6	256.2	241.2
22.5°	*428.0*	428.0	425.4	417.7	406.5	389.0	371.0	349.6	320.4	291.7	273.3
25°	*484.5*	481.5	478.1	468.2	458.8	440.0	418.5	395.4	365.0	330.3	309.7
27.5°	*540.6*	539.3	535.9	525.2	513.2	493.5	472.1	442.1	409.1	368.4	347.0
30°	*600.2*	598.9	595.5	585.2	567.6	548.3	522.6	490.5	454.5	408.7	385.1
32.5°	*657.6*	657.6	653.3	642.6	624.2	601.0	573.6	537.6	497.8	450.7	422.4
35°	*721.4*	721.0	713.3	700.4	678.1	658.0	627.2	589.5	544.5	490.5	460.5
37.5°	*780.1*	778.0	770.2	756.5	736.0	709.8	675.1	633.6	587.3	529.9	496.1
40°	*837.9*	835.4	828.5	813.1	788.2	758.7	723.1	678.6	626.3	566.8	531.6
42.5°	*890.2*	889.3	879.5	861.1	836.2	802.8	764.7	717.6	665.3	601.0	563.8
45°	*937.7*	937.7	927.9	907.8	879.5	845.6	803.7	755.3	699.6	632.3	592.9
47.5°	*982.7*	982.7	973.3	950.2	918.9	881.6	838.8	788.7	729.5	660.6	618.6
50°	*1023.4*	1021.7	1011.0	985.3	953.6	914.6	869.6	816.9	757.4	685.9	643.4
52.5°	*1058.6*	1056.4	1044.0	1020.0	984.4	942.9	895.8	842.2	780.1	707.7	664.4
55°	*1088.1*	1086.8	1074.8	1047.4	1010.1	968.6	918.5	862.8	801.5	726.1	682.4
57.5°	*1113.8*	1111.7	1097.5	1069.7	1032.4	987.0	936.5	881.2	817.8	742.8	697.4
60°	*1133.1*	1131.0	1116.4	1088.5	1050.8	1002.9	952.3	896.2	831.9	756.1	709.8
62.5°	*1148.9*	1146.4	1132.2	1102.7	1063.3	1016.1	964.3	907.3	843.1	766.8	720.6
65°	*1158.8*	1156.7	1142.9	1113.4	1072.7	1025.1	973.3	915.9	852.1	775.0	728.7
67.5°	*1165.2*	1163.5	1149.4	1120.7	1080.0	1031.6	978.9	921.5	858.1	781.0	734.7
70°	*1168.2*	*1166.5*	*1151.9*	*1122.8*	*1082.5*	*1034.1*	*981.4*	*924.0*	*861.1*	*785.2*	*738.5*
71°	*1168.2*	1166.5	1152.4	1123.2	1083.0	1034.6	981.9	924.5	861.5	785.7	739.0
72.5°	*1166.9*	1165.7	1151.5	1122.0	1081.7	1033.7	980.6	924.0	861.5	786.1	739.8
75°	*1162.2*	1159.7	1145.9	1117.2	1077.4	1029.4	976.7	920.2	858.9	784.8	739.0
77.5°	*1153.7*	1151.5	1137.4	1109.5	1069.7	1021.3	969.0	913.8	853.8	780.5	735.5
80°	*1141.2*	1139.1	1125.4	1096.7	1057.3	1010.6	958.3	903.9	844.8	773.7	729.5
82.5°	*1125.4*	1123.7	1110.4	1081.7	1042.7	996.4	944.2	891.1	834.9	764.2	721.0
85°	*1106.5*	1104.4	1089.8	1061.6	1024.3	978.0	927.0	875.6	820.8	752.7	710.7
87.5°	*1083.8*	1082.5	1068.0	1041.0	1003.7	957.9	909.0	858.9	804.9	739.8	699.1
90°	*1059.0*	1058.6	1043.1	1016.1	979.3	936.0	887.6	838.8	786.5	724.4	685.0
92.5°	*1034.1*	1034.1	1018.7	990.9	954.5	911.6	865.8	818.7	769.0	709.0	671.3
95°	*1006.7*	1003.7	989.2	964.3	927.9	886.8	842.6	796.4	748.4	691.4	655.9
97.5°	*974.6*	973.7	959.6	933.0	899.6	860.2	817.4	774.5	728.3	673.4	639.6
100°	*943.3*	941.6	928.3	903.9	869.6	831.9	791.7	750.5	706.8	655.0	622.5
102.5°	*912.5*	908.2	894.5	869.6	839.6	802.8	765.1	727.4	684.6	635.3	604.9
105°	*875.2*	874.8	860.6	837.1	806.7	774.1	738.5	701.7	662.7	615.2	586.9
107.5°	*838.8*	838.8	825.5	802.4	773.7	742.4	710.7	676.0	640.0	594.2	568.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*801.5*	801.1	789.1	768.5	741.1	711.1	682.0	650.3	614.3	574.0	548.8
112.5°	*764.7*	763.8	752.3	731.3	706.0	681.6	652.4	623.3	590.3	553.1	529.1
115°	*727.4*	726.6	714.1	695.7	672.6	647.3	622.9	595.0	566.3	529.1	508.1
117.5°	*688.9*	688.0	677.7	659.7	637.9	617.7	593.3	569.3	540.2	506.4	485.4
120°	*649.4*	649.9	639.6	623.3	603.2	584.3	562.9	541.1	514.1	481.9	461.8
122.5°	*612.2*	609.2	602.3	587.8	569.8	552.2	534.2	511.9	486.7	456.2	438.7
125°	*572.3*	571.5	564.6	550.1	534.6	520.9	504.2	484.1	460.9	430.1	414.3
127.5°	*533.8*	535.1	527.3	516.6	501.6	490.1	472.9	455.4	433.1	405.3	390.3
130°	*497.8*	496.9	492.6	481.5	469.1	457.1	444.2	428.4	407.4	379.6	365.8
132.5°	*464.4*	460.5	456.7	447.2	437.0	427.1	416.0	400.1	378.7	354.3	342.3
135°	*428.0*	428.0	422.0	413.8	406.5	397.1	386.0	371.4	353.0	331.6	317.9
137.5°	*394.5*	392.8	389.0	382.6	375.7	368.8	359.4	344.9	328.6	308.0	296.0
140°	*362.8*	361.6	358.1	352.6	347.0	340.6	332.0	319.6	304.6	284.9	274.6
142.5°	*329.9*	330.7	327.7	323.9	317.4	313.2	305.4	294.3	281.0	263.9	254.0
145°	*300.3*	300.7	299.4	295.6	290.9	286.6	278.5	270.3	257.5	242.0	234.8
147.5°	*275.9*	274.2	271.6	269.5	265.2	261.7	255.3	247.6	235.6	222.3	215.5
150°	*248.5*	249.8	247.2	244.6	242.0	237.3	232.6	226.2	215.1	204.3	197.1
152.5°	*225.3*	226.2	224.0	222.8	220.2	216.3	211.6	205.6	197.1	187.6	180.8
155°	*204.8*	204.8	204.8	203.1	200.1	197.5	192.8	187.2	179.9	171.4	166.6
157.5°	*185.9*	186.3	186.3	184.2	182.1	179.9	176.1	171.4	164.9	157.6	154.2
160°	*170.9*	170.1	169.6	167.9	166.2	164.5	161.1	157.2	151.7	145.7	142.7
162.5°	*155.9*	155.9	155.1	153.8	152.5	149.9	147.8	143.9	140.1	135.8	132.4
165°	*144.4*	143.9	143.9	142.2	140.9	138.8	136.7	134.1	130.7	126.8	124.2
167.5°	*134.5*	133.7	133.2	132.4	130.7	129.4	127.2	125.1	122.5	119.9	117.8
170°	*125.1*	125.5	124.7	123.8	122.9	121.7	119.9	118.2	116.1	113.5	112.7
172.5°	*118.7*	118.2	117.8	117.0	116.1	114.8	114.0	112.2	111.0	109.2	108.4
175°	*112.7*	112.7	112.2	111.4	110.5	109.7	108.8	108.0	107.1	105.8	105.4
177.5°	*108.0*	108.0	108.0	107.1	106.7	106.2	105.4	105.0	104.5	103.7	103.7
180°	*103.2*	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2.5°	65.5	60.0	55.3	51.0	47.6	44.6	42.8	39.8	37.7	36.4
5°	73.7	65.5	58.7	51.8	46.7	41.1	35.6	30.0	26.6	26.1
7.5°	93.4	84.4	74.1	65.1	54.8	46.3	39.0	33.4	31.3	30.8
10°	118.2	105.0	91.2	78.0	64.7	54.0	46.3	41.1	38.6	38.1
12.5°	145.7	127.7	110.1	93.0	77.1	65.1	55.7	49.7	46.7	46.7
15°	173.9	151.7	129.4	108.4	90.0	75.0	63.4	55.7	52.3	51.8
17.5°	198.8	173.5	146.9	122.1	99.8	81.0	67.3	57.8	53.5	53.1
20°	227.0	194.9	164.5	133.7	107.5	85.7	69.4	58.7	53.1	52.7
22.5°	257.0	220.6	182.9	146.9	115.7	90.4	71.5	59.5	53.5	52.7
25°	290.9	247.2	201.8	160.2	123.8	94.7	73.7	60.4	54.0	53.1
27.5°	323.0	274.6	221.9	172.6	131.1	98.5	75.4	61.3	54.4	53.5
30°	357.3	301.6	241.6	185.9	138.8	102.4	77.1	61.7	54.4	53.5
32.5°	392.0	327.7	262.2	197.9	145.2	105.0	78.0	62.1	54.8	54.0
35°	428.8	356.0	281.5	210.3	151.2	107.5	78.8	62.5	54.8	54.0
37.5°	462.7	383.0	300.3	221.0	156.4	109.7	79.7	62.5	55.3	54.4
40°	493.1	407.4	317.0	230.5	160.6	111.0	80.1	63.0	55.7	54.8
42.5°	523.1	431.4	332.0	238.2	164.1	111.8	80.5	63.4	56.1	55.3
45°	549.6	451.5	345.7	245.5	166.6	112.7	81.0	63.8	56.5	55.7
47.5°	573.2	470.4	358.6	251.5	168.4	113.1	81.4	64.3	57.4	56.5
50°	595.9	488.4	368.4	256.2	170.1	113.5	81.4	65.1	58.7	57.8
52.5°	615.2	502.9	377.4	260.0	170.9	114.0	82.3	66.0	59.5	59.1
55°	631.9	515.8	385.6	263.0	171.8	114.0	83.1	67.3	61.3	60.4
57.5°	645.6	526.1	391.1	264.7	171.8	114.4	83.5	69.0	63.0	62.1
60°	657.6	535.1	396.3	266.9	172.2	114.8	84.8	70.7	65.1	64.7
62.5°	667.4	541.9	400.1	268.2	172.6	116.1	86.5	72.8	67.3	66.8
65°	675.1	547.9	403.1	269.0	173.1	117.0	88.2	75.0	70.3	69.8
67.5°	680.3	552.2	405.3	269.5	173.5	118.2	90.4	78.0	73.3	72.4
70°	*684.1*	*554.8*	*406.5*	*269.9*	*174.4*	*119.5*	*93.0*	*80.5*	*76.3*	*75.8*
71°	685.0	555.2	407.0	269.9	174.8	120.4	93.8	81.8	77.5	77.1
72.5°	685.4	555.6	407.0	269.9	175.2	121.7	95.5	84.0	79.7	79.3
75°	685.0	555.2	406.5	269.9	176.1	123.8	98.5	87.0	83.1	82.7
77.5°	682.0	553.5	405.3	269.9	177.4	126.4	102.0	91.2	87.0	86.5
80°	676.9	550.1	403.1	269.5	178.6	129.4	105.4	95.1	90.8	90.4
82.5°	670.0	544.9	400.1	269.5	180.4	131.9	108.8	98.5	95.1	94.7
85°	661.0	538.9	397.1	269.0	182.5	135.4	113.1	103.2	99.8	99.0
87.5°	650.3	531.6	393.7	269.0	184.6	139.2	117.4	107.5	104.1	103.2
90°	638.3	523.5	390.3	269.0	187.2	143.1	122.1	112.2	108.4	108.0
92.5°	626.3	515.8	386.8	269.5	190.6	147.4	126.8	117.4	113.5	113.5
95°	612.6	506.4	383.0	270.3	194.1	152.1	132.4	122.5	118.7	118.2
97.5°	598.9	497.8	380.0	271.6	197.9	157.6	137.5	128.1	124.2	123.4
100°	583.5	488.8	377.0	273.3	202.6	162.8	143.1	133.7	129.8	129.4
102.5°	568.5	478.9	373.6	275.5	207.3	168.8	149.1	139.2	135.4	134.9
105°	552.2	468.7	369.7	277.2	212.1	174.4	154.6	144.4	140.1	140.1
107.5°	536.3	457.9	365.8	279.3	216.8	179.9	159.8	149.5	144.8	144.4

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

Scaled Data Report

REPORT NUMBER: P1223956
CATALOG NUMBER: FFX-CLB-40-740-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	518.4	446.4	361.1	280.6	221.0	184.6	164.5	153.4	148.7	148.2
112.5°	502.1	434.0	356.0	281.0	224.9	188.9	168.4	156.8	152.1	151.2
115°	481.5	421.1	349.1	280.2	227.0	192.3	170.9	158.9	153.8	152.9
117.5°	461.8	406.5	341.9	278.0	228.3	194.1	172.6	160.2	154.6	153.8
120°	441.7	390.3	331.6	274.2	227.0	194.1	172.6	159.4	153.8	153.4
122.5°	419.0	373.1	320.9	268.6	224.9	192.3	170.9	158.1	152.1	151.7
125°	395.4	354.7	308.0	260.9	220.6	189.8	168.4	155.5	149.5	149.1
127.5°	372.7	335.9	294.7	251.9	214.6	185.5	164.9	151.7	145.7	144.8
130°	350.4	316.2	279.7	241.2	207.3	179.9	160.2	147.8	141.8	140.9
132.5°	327.3	297.3	264.7	230.9	199.6	173.9	155.1	143.1	137.5	136.7
135°	305.4	277.6	248.5	218.5	190.6	167.1	149.5	138.4	132.8	132.4
137.5°	284.5	259.2	233.5	206.5	181.6	160.2	143.9	133.7	128.5	127.7
140°	263.0	241.2	218.1	194.9	171.8	152.9	138.4	128.5	123.8	122.9
142.5°	244.6	224.0	203.5	182.1	162.4	145.2	132.4	123.4	119.5	119.1
145°	225.3	207.3	188.9	170.5	153.4	138.4	126.8	119.1	115.2	114.8
147.5°	208.2	191.1	175.2	159.4	144.4	131.1	121.2	114.8	111.8	111.4
150°	190.6	176.9	163.2	148.7	135.8	124.7	116.5	111.0	108.0	107.5
152.5°	175.2	163.6	151.2	140.1	128.1	119.1	112.2	107.1	105.0	104.5
155°	161.9	152.1	141.8	131.5	122.1	114.8	108.8	104.5	102.8	102.8
157.5°	150.4	141.8	133.2	124.7	117.0	110.5	105.8	102.8	101.1	100.7
160°	139.2	132.4	124.7	118.2	112.2	107.5	103.7	101.1	99.8	99.4
162.5°	130.2	124.2	119.1	113.5	108.8	105.0	102.0	99.8	99.0	99.0
165°	122.5	118.2	113.5	109.7	105.8	102.8	100.7	99.4	98.5	98.5
167.5°	116.5	112.7	109.7	106.2	103.7	101.5	99.8	99.0	98.5	98.1
170°	111.4	108.8	106.2	104.1	102.0	100.7	99.4	99.0	98.5	98.5
172.5°	107.5	105.8	104.1	102.4	101.1	99.8	99.4	99.0	99.0	99.0
175°	104.5	103.7	102.4	101.5	100.7	100.2	99.8	99.8	99.8	99.8
177.5°	103.2	102.4	102.0	101.5	101.1	101.1	101.1	101.5	101.5	101.5
180°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2

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

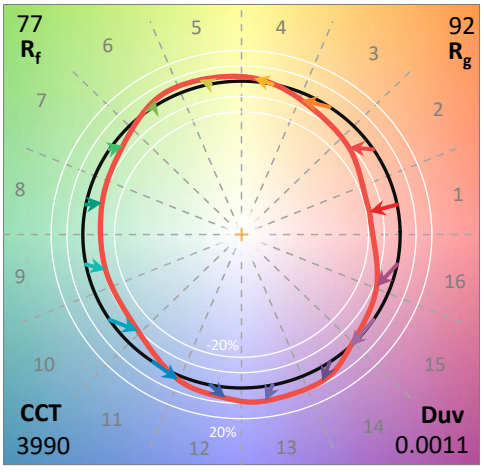
Test Information

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

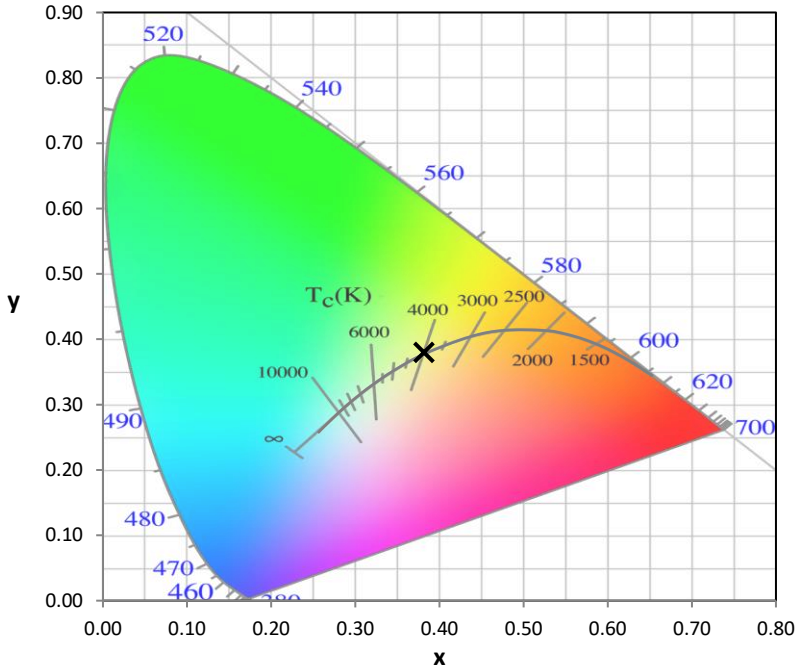
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

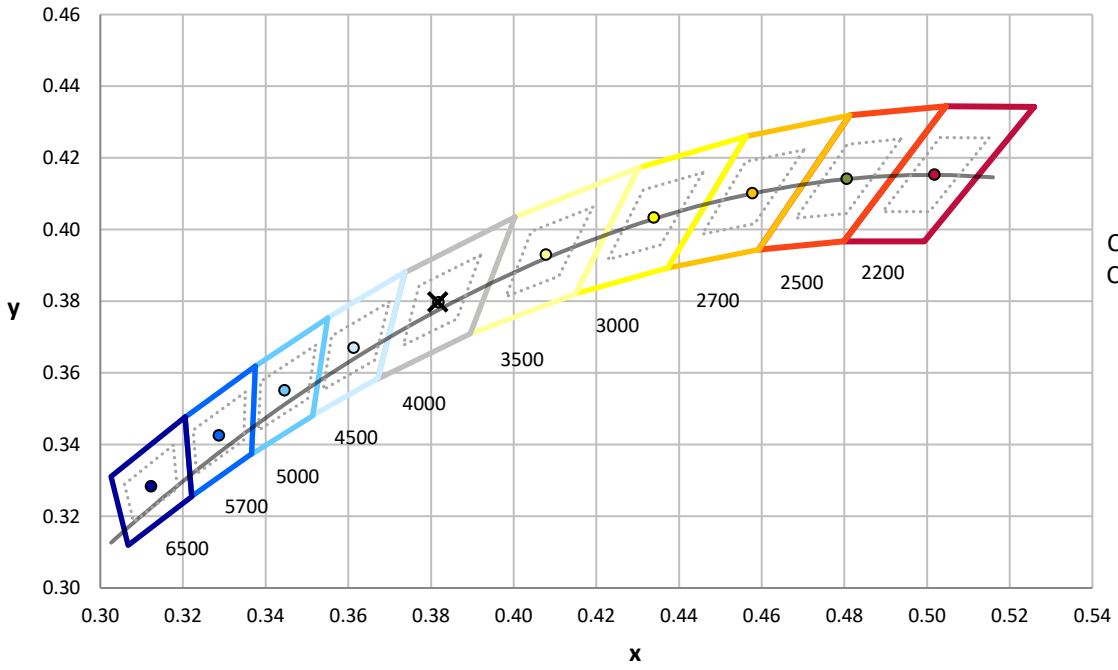
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

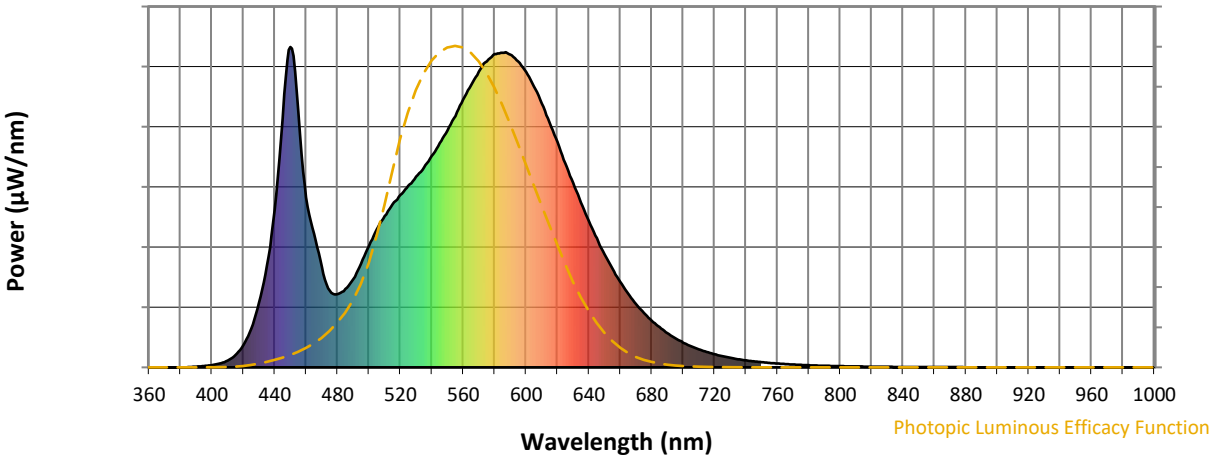


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

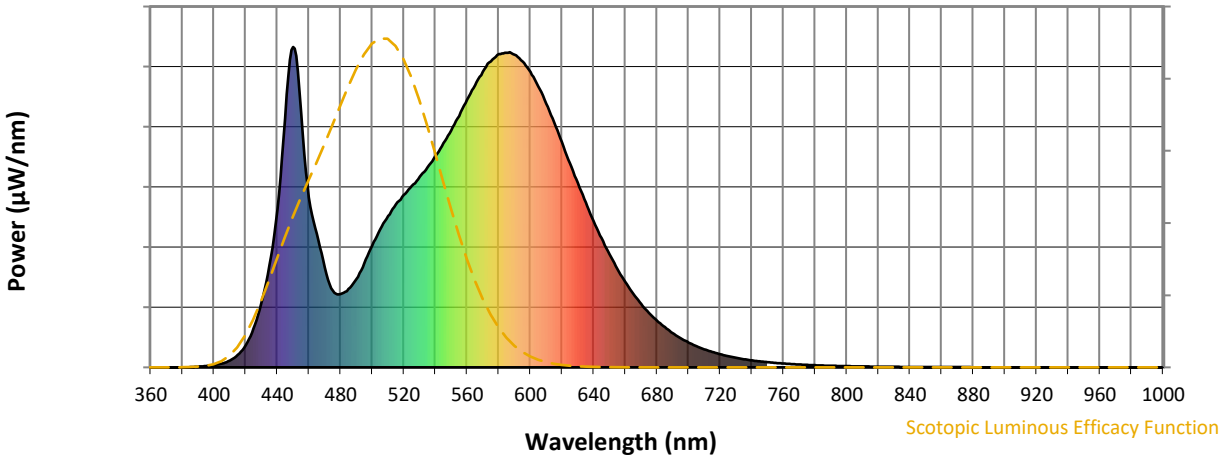


Photopic Lumens: NR

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

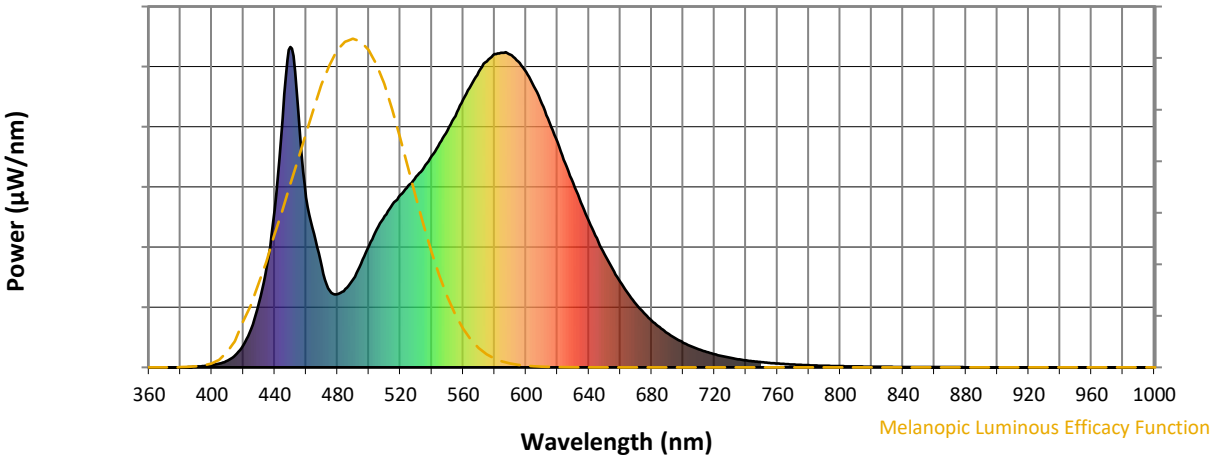


Scotopic Lumens: NR **S/P: 1.59**

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			

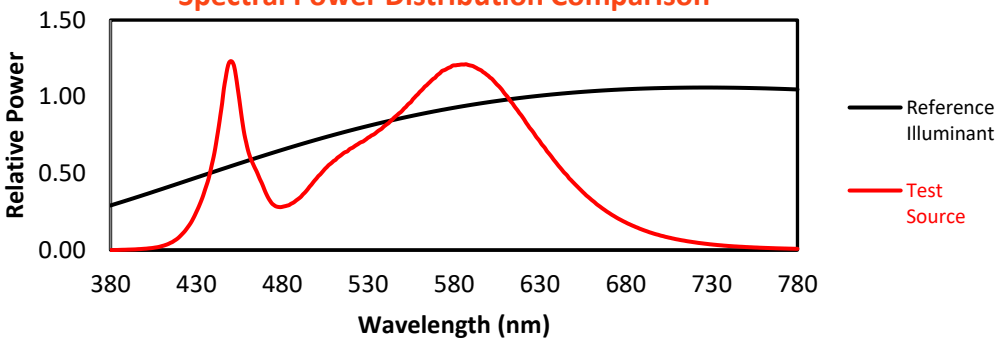
REPORT NUMBER: SP1-2501-332-1

TM-30-18

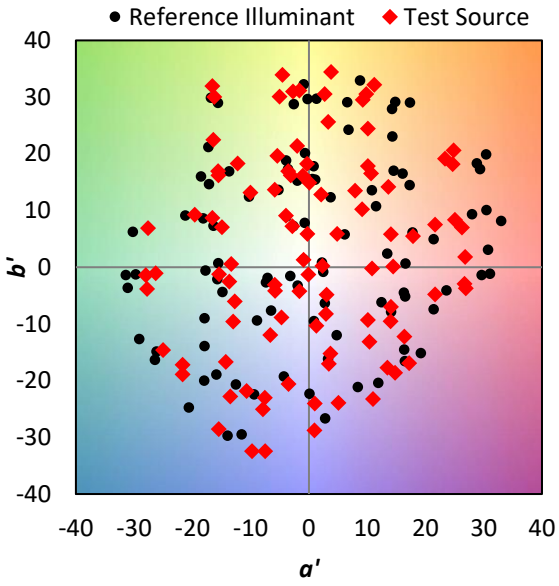
Summary

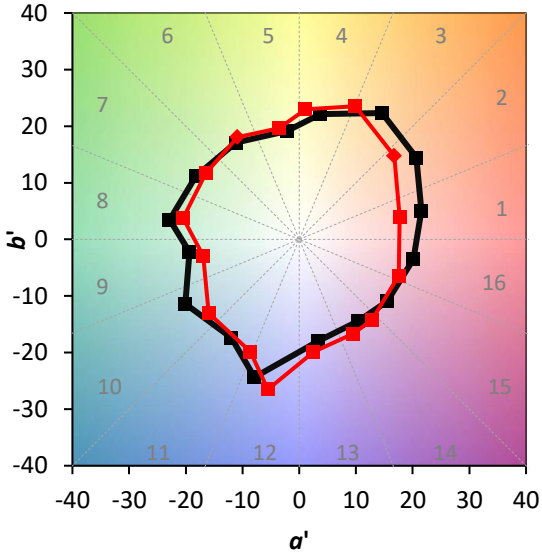
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

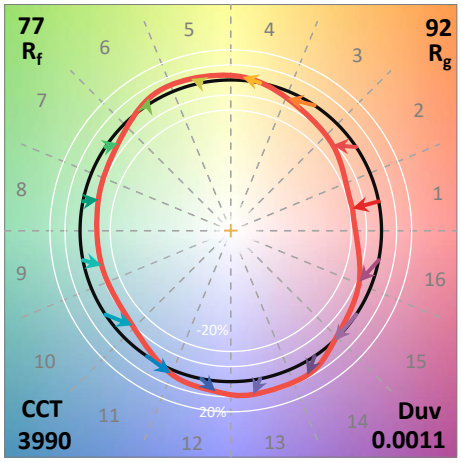
Spectral Power Distribution Comparison

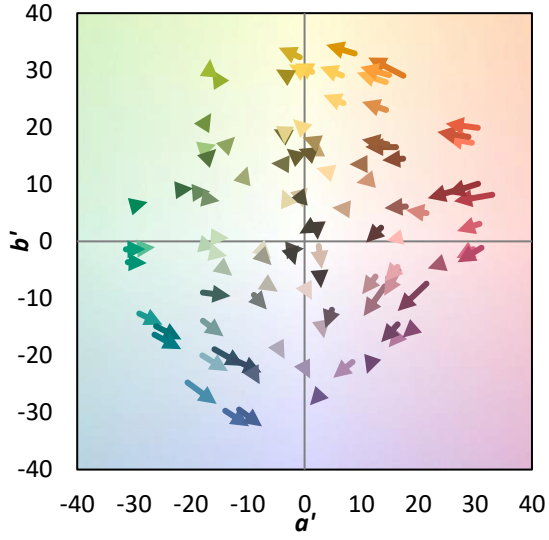


Color Vector Graphics







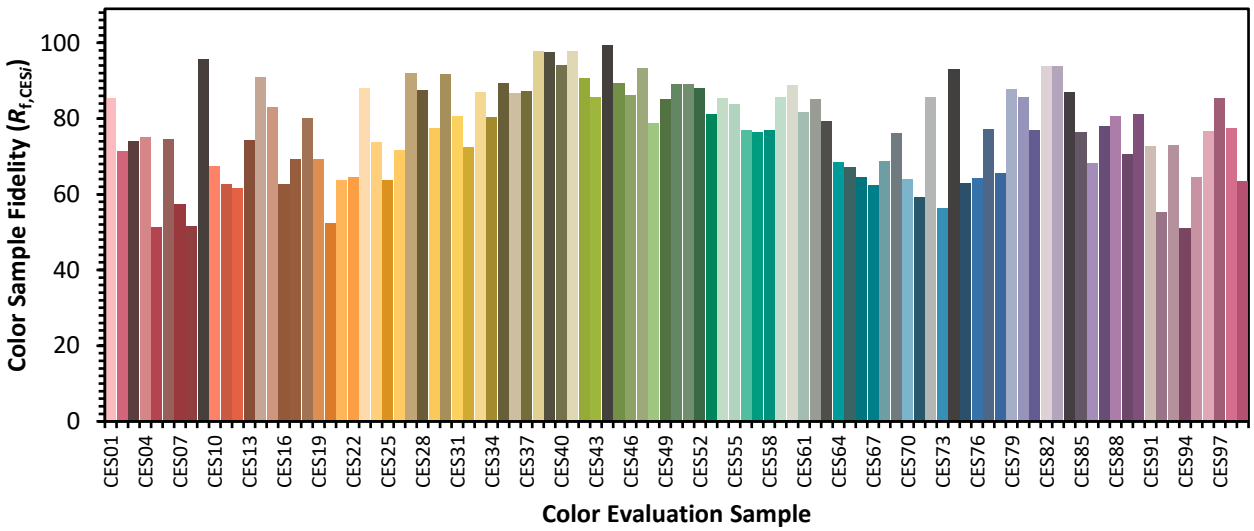


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

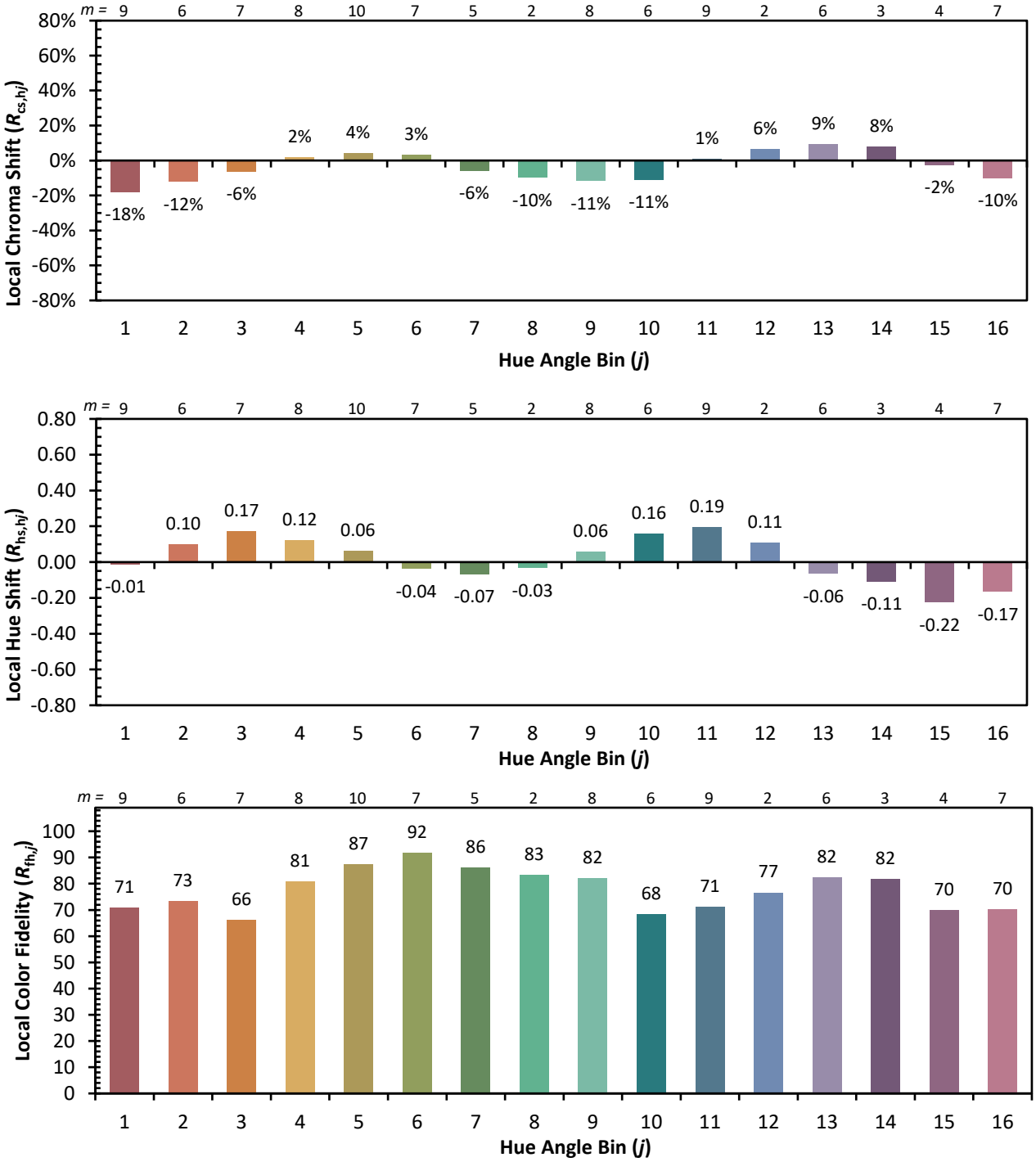
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57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

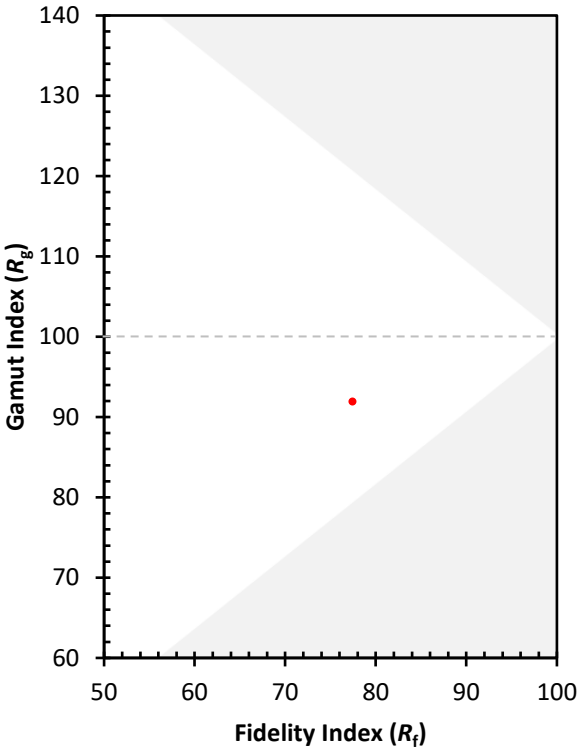
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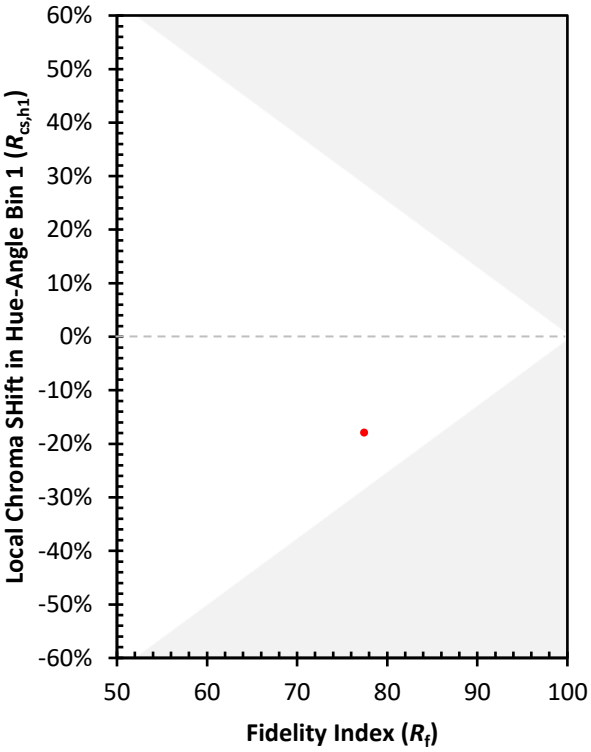


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Measure Comparisons





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