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: P1046256

Luminaire Tested: **FFX-CLB-80-740-U-FR-T4-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046256
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-740-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11789.2 lumens
Efficiency:	N/A
Efficacy:	144.1 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):	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

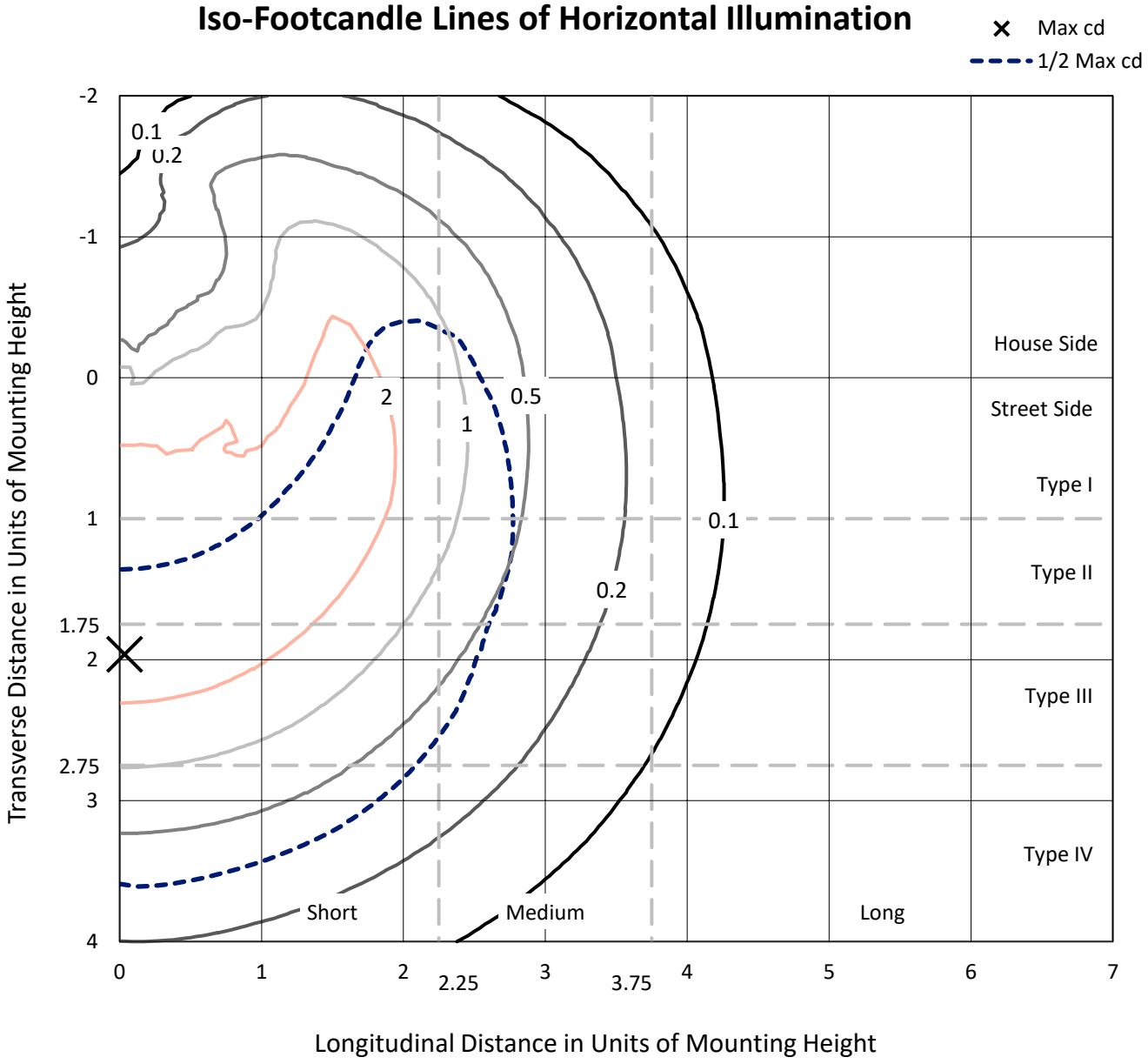


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Iso-Footcandle Lines of Horizontal Illumination



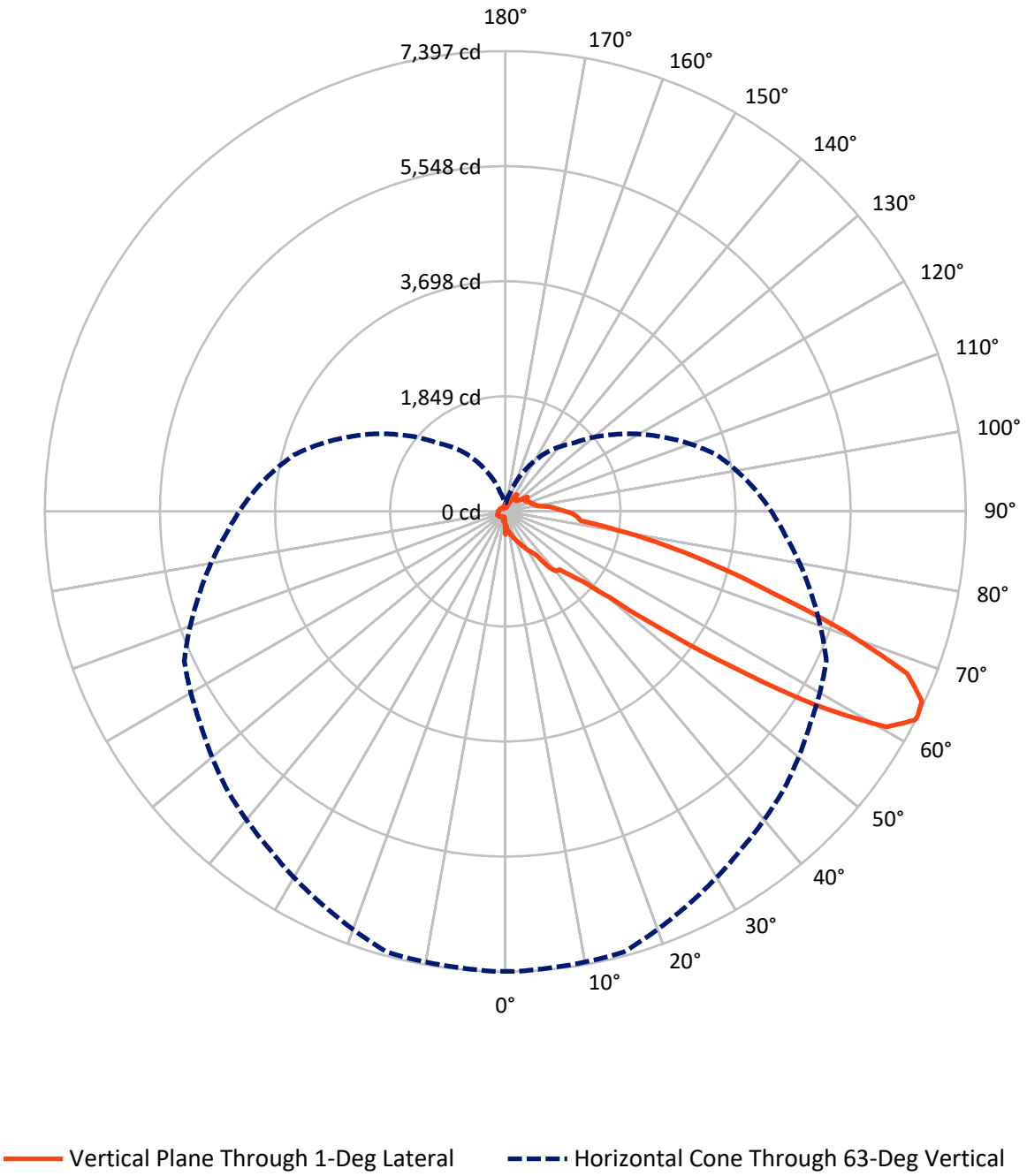
Based on 15 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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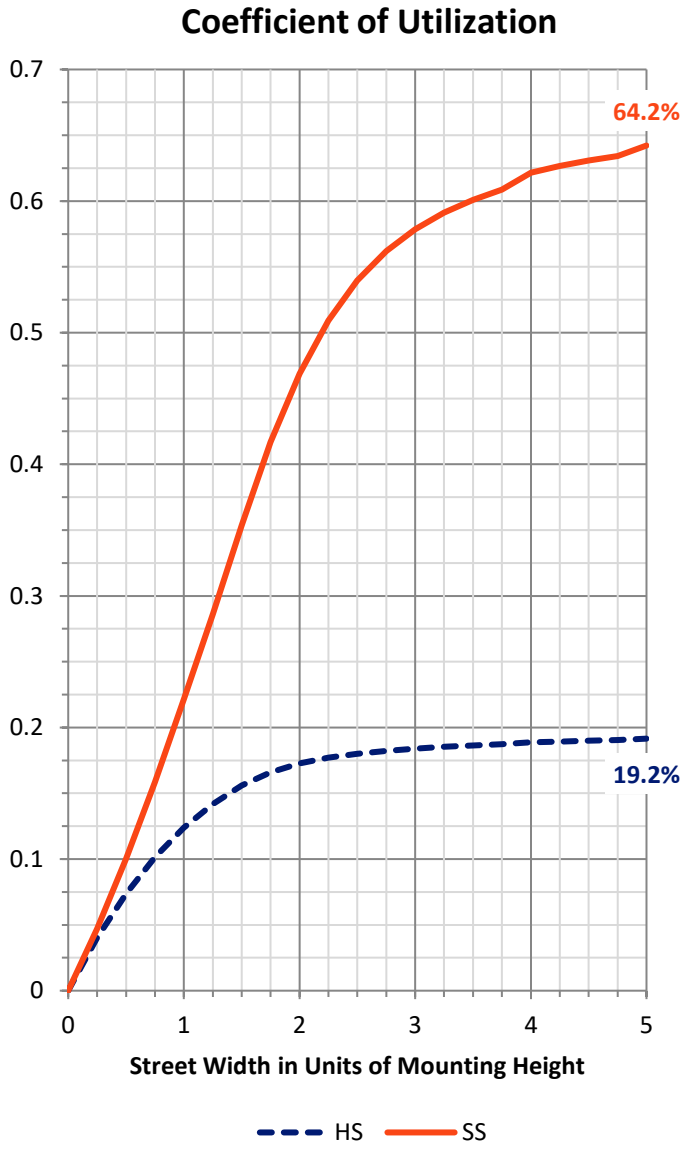
REPORT NUMBER: P1046256
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2334.2	467.6	2801.8
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	7907.9	1079.5	8987.4
	% Fixture	67.1	9.2	76.2
Total	Lumens	10242.1	1547.1	11789.2
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	0.2
10°-20°	77.6	0.7
20°-30°	171.0	1.5
30°-40°	350.1	3.0
40°-50°	706.9	6.0
50°-60°	2282.0	19.4
60°-70°	3759.5	31.9
70°-80°	2072.4	17.6
80°-90°	800.6	6.8
90°-100°	480.0	4.1
100°-110°	305.8	2.6
110°-120°	233.8	2.0
120°-130°	199.5	1.7
130°-140°	133.8	1.1
140°-150°	113.9	1.0
150°-160°	51.9	0.4
160°-170°	21.0	0.2
170°-180°	7.1	0.1
0°-90°	10242.1	86.9
0°-180°	11789.2	100.0



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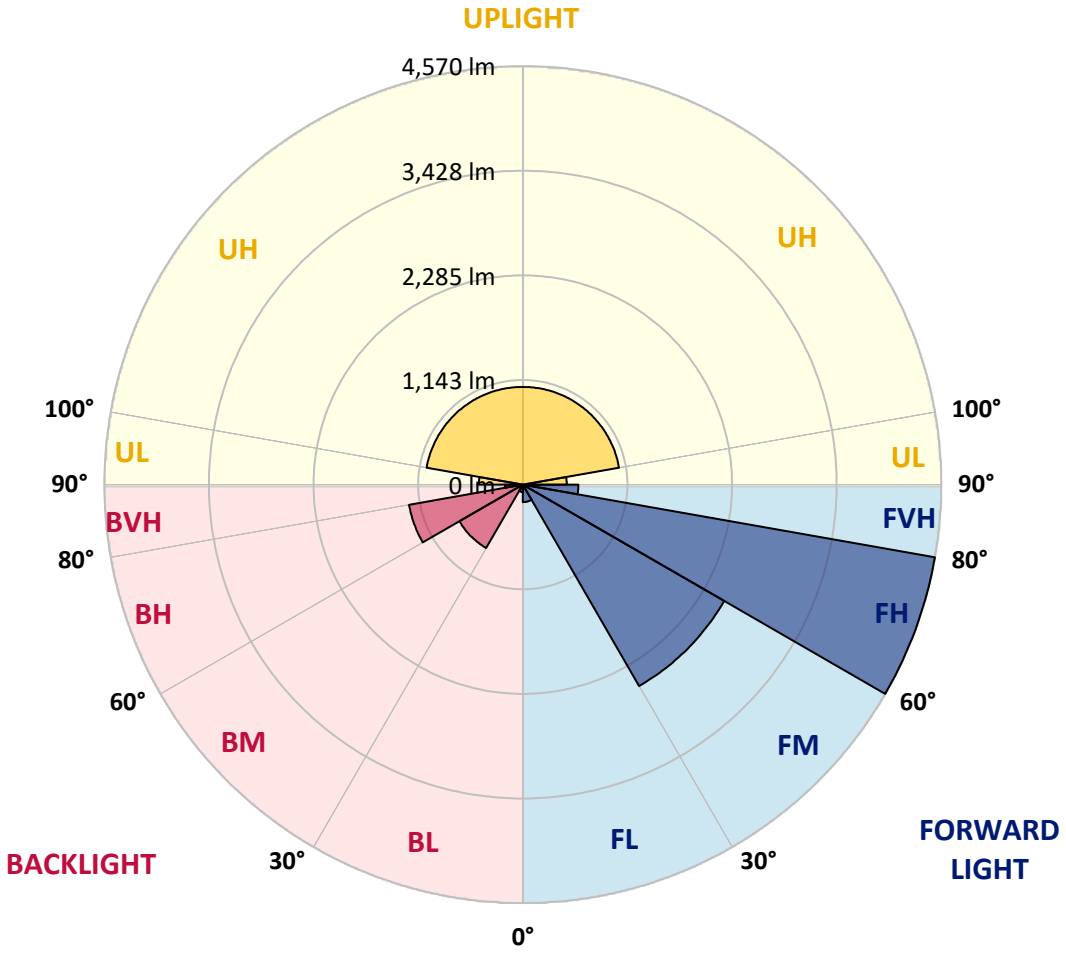
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	191.0	1.6			
FM	(30°-60°)	2539.9	21.5			
FH	(60°-80°)	4570.4	38.8			G2/5000
FVH	(80°-90°)	606.7	5.1			G4/750
BL	(0°-30°)	79.6	0.7	B0/110		
BM	(30°-60°)	799.1	6.8	B1/1000		
BH	(60°-80°)	1261.5	10.7	B3/2500		G3/2500
BVH	(80°-90°)	194.0	1.6			G2/225
UL	(90°-100°)	480.0	4.1		U3/500	
UH	(100°-180°)	1067.0	9.1		U5	

BUG Rating: B3-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2
2.5°	230.6	228.1	239.0	272.6	309.5	321.2	296.9	287.6	314.5	376.5	383.3
5°	265.8	270.0	267.5	271.7	275.1	301.1	324.5	300.2	243.2	198.8	202.1
7.5°	313.6	312.8	312.8	309.5	292.7	265.8	258.3	277.6	278.4	233.1	197.9
10°	334.6	333.8	333.8	330.4	327.1	329.6	321.2	286.0	257.5	239.0	227.3
12.5°	379.1	377.4	376.5	374.9	369.0	362.3	356.4	358.1	333.8	287.6	257.5
15°	416.0	414.3	416.0	417.6	413.4	401.7	384.9	361.4	339.6	320.4	293.5
17.5°	456.2	455.4	454.5	452.9	447.0	431.1	410.9	389.1	364.8	338.0	312.8
20°	494.8	493.1	494.0	494.8	492.3	473.0	452.9	426.0	400.0	374.0	344.7
22.5°	540.9	540.9	538.4	538.4	535.9	524.1	499.0	468.0	441.1	408.4	375.7
25°	600.5	597.9	597.9	595.4	585.4	572.8	555.2	519.9	488.1	457.1	413.4
27.5°	659.2	656.6	656.6	655.8	643.2	626.5	597.1	563.6	533.4	494.0	441.1
30°	726.3	724.6	725.4	716.2	706.1	682.6	645.7	607.2	567.8	521.6	470.5
32.5°	794.2	789.1	788.3	778.2	764.8	736.3	695.2	658.3	617.2	563.6	520.8
35°	873.9	862.9	874.7	872.2	870.5	840.3	793.3	750.6	701.9	653.3	607.2
37.5°	1137.2	1142.2	1139.7	1106.2	1079.3	1038.2	1017.3	966.9	899.8	840.3	753.1
40°	1261.3	1259.6	1255.4	1218.5	1194.2	1151.4	1117.9	1080.2	1040.7	947.6	839.5
42.5°	1288.1	1278.9	1285.6	1320.0	1351.9	1323.4	1216.8	1095.2	1039.9	974.5	918.3
45°	1484.4	1460.9	1471.0	1480.2	1449.1	1408.1	1361.9	1283.1	1190.0	1096.1	992.9
47.5°	1694.0	1681.4	1680.6	1677.3	1680.6	1641.2	1580.0	1507.0	1375.4	1273.9	1159.0
50°	2204.8	2188.0	2193.0	2197.2	2179.6	2139.3	2073.1	2025.3	1867.6	1673.1	1523.8
52.5°	3141.5	3131.4	3108.0	3109.6	2951.1	2942.7	2853.0	2810.2	2577.9	2355.7	2054.6
55°	4298.0	4363.4	4291.3	4277.0	4211.6	4152.9	3928.1	3742.0	3409.0	3089.5	2736.4
57.5°	5864.5	5875.4	5784.0	5786.5	5554.2	5406.6	5199.5	4914.4	4418.7	3957.5	3561.7
60°	7005.9	7033.6	6990.8	6901.9	6452.4	6188.2	5960.1	5735.4	5357.2	4672.0	4121.0
62.5°	7377.4	7385.8	7359.0	7312.0	6915.3	6578.2	6284.7	5958.5	5668.3	5051.1	4497.6
63°	7390.8	7396.7	7375.7	7335.5	6967.3	6617.6	6324.1	5975.2	5690.9	5084.6	4520.2
65°	7354.8	7357.3	7348.1	7294.4	7000.0	6630.2	6307.3	5963.5	5702.7	5098.0	4520.2
67.5°	7030.2	6966.5	6993.3	6902.7	6657.9	6289.7	5981.1	5630.5	5395.7	4811.2	4257.7
70°	5784.0	5788.2	5784.0	5734.5	5664.9	5373.9	5013.3	4698.0	4401.1	3942.4	3508.0
72.5°	4474.9	4492.5	4454.0	4482.5	4426.3	4185.6	3952.5	3632.9	3424.1	3035.0	2651.7
75°	3466.1	3502.1	3513.9	3432.5	3383.9	3332.7	3205.2	2975.5	2766.6	2465.6	2131.0
77.5°	2619.0	2625.7	2635.8	2580.5	2516.7	2536.9	2518.4	2409.4	2234.1	2012.7	1746.9
80°	1809.8	1829.0	1861.8	1829.9	1837.4	1825.7	1823.2	1736.0	1609.3	1470.1	1327.5
82.5°	1216.0	1215.2	1223.6	1274.7	1321.7	1320.0	1245.4	1122.9	1058.3	1018.1	937.6
85°	1164.0	1164.0	1175.8	1138.9	1115.4	1091.9	1086.9	1044.9	995.5	904.9	793.3
87.5°	1085.2	1082.7	1086.0	1054.2	1023.1	1015.6	1008.0	972.0	950.2	871.3	769.0
90°	928.4	935.1	935.1	932.6	913.3	905.7	875.5	845.3	831.9	760.6	680.1
92.5°	819.3	819.3	828.6	812.6	791.7	803.4	751.4	712.0	693.5	645.7	582.0
95°	740.5	738.0	749.7	727.1	712.0	690.2	668.4	627.3	613.9	572.8	508.2
97.5°	591.2	588.7	595.4	584.5	561.0	551.0	527.5	494.8	482.2	443.6	404.2
100°	509.0	508.2	510.7	504.9	491.4	478.9	458.7	432.7	421.0	389.1	353.9
102.5°	483.0	480.5	481.4	482.2	462.9	451.2	431.9	411.8	400.0	374.0	335.5
105°	459.6	457.9	456.2	456.2	434.4	422.7	410.1	396.7	386.6	358.1	321.2
107.5°	437.8	435.2	429.4	428.5	414.3	401.7	386.6	374.9	364.8	338.8	303.6

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	413.4	*412.6*	409.3	410.1	400.9	381.6	369.0	354.7	342.2	319.5	288.5
112.5°	400.9	*400.9*	398.3	402.5	367.3	348.0	334.6	322.0	313.6	291.8	268.4
115°	387.4	*380.7*	378.2	386.6	346.4	319.5	306.1	292.7	284.3	262.5	243.2
117.5°	358.9	*357.3*	358.1	364.8	353.1	323.7	301.9	285.1	276.7	260.8	243.2
120°	409.3	*407.6*	397.5	395.8	375.7	352.2	338.0	328.7	316.2	290.2	256.6
122.5°	427.7	*424.3*	408.4	413.4	386.6	374.9	369.0	365.6	353.9	319.5	268.4
125°	372.4	*367.3*	363.1	364.8	349.7	334.6	328.7	323.7	312.0	292.7	255.8
127.5°	298.6	*301.1*	297.7	288.5	286.0	263.3	255.8	249.9	239.0	223.1	217.2
130°	280.1	*278.4*	277.6	275.9	274.2	257.5	245.7	231.5	222.2	208.8	192.9
132.5°	249.1	*250.7*	253.3	267.5	280.9	266.7	236.5	214.7	208.8	211.3	204.6
135°	236.5	*237.3*	237.3	248.2	260.0	245.7	223.1	202.1	199.6	208.8	200.4
137.5°	242.4	*246.6*	245.7	243.2	236.5	226.4	221.4	209.7	202.9	197.1	182.8
140°	255.8	*260.8*	258.3	244.0	239.0	234.0	237.3	233.1	216.4	196.2	175.3
142.5°	254.1	*258.3*	256.6	254.9	264.2	252.4	236.5	220.6	207.1	196.2	182.8
145°	329.6	*327.9*	321.2	321.2	310.3	292.7	281.8	265.0	249.1	234.8	213.0
147.5°	304.4	*308.6*	310.3	302.7	297.7	286.0	284.3	275.1	270.0	257.5	234.8
150°	241.5	*244.9*	239.8	234.0	231.5	232.3	228.1	221.4	216.4	207.1	197.1
152.5°	166.9	*168.6*	166.9	161.9	160.2	157.7	158.5	153.5	150.1	144.2	135.0
155°	151.8	*152.6*	153.5	145.1	143.4	144.2	145.1	141.7	135.0	130.0	119.1
157.5°	119.1	*117.4*	117.4	115.7	116.6	114.1	114.1	113.2	110.7	107.3	104.0
160°	94.8	*95.6*	95.6	95.6	97.3	95.6	95.6	93.1	93.1	91.4	89.7
162.5°	80.5	*80.5*	80.5	80.5	79.7	79.7	81.3	80.5	80.5	81.3	83.0
165°	67.9	*68.8*	68.8	68.8	68.8	68.8	70.4	70.4	72.1	75.5	79.7
167.5°	63.7	*62.9*	62.9	63.7	63.7	65.4	65.4	68.8	74.6	80.5	80.5
170°	60.4	*60.4*	60.4	61.2	61.2	62.1	64.6	70.4	77.2	79.7	76.3
172.5°	62.9	*62.1*	62.1	62.9	62.9	65.4	68.8	73.8	76.3	76.3	73.0
175°	64.6	*63.7*	63.7	64.6	64.6	66.3	69.6	73.0	74.6	75.5	75.5
177.5°	62.9	*62.9*	62.9	62.9	62.9	63.7	63.7	66.3	67.9	69.6	71.3
180°	60.4	*60.4*	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2
2.5°	383.3	349.7	300.2	239.8	279.3	327.9	321.2	283.5	226.4	170.2	170.2
5°	212.2	224.8	237.3	208.0	186.2	184.5	179.5	161.0	158.5	130.8	123.3
7.5°	185.3	173.6	171.1	202.1	199.6	131.7	104.0	92.2	97.3	131.7	135.9
10°	222.2	217.2	201.3	167.7	140.1	127.5	126.6	128.3	117.4	94.8	88.9
12.5°	250.7	242.4	228.1	218.0	186.2	148.4	127.5	118.2	125.0	158.5	166.0
15°	278.4	266.7	242.4	214.7	182.8	155.1	133.3	114.1	114.1	109.0	106.5
17.5°	300.2	285.1	255.8	225.6	189.5	155.1	126.6	107.3	98.1	96.4	96.4
20°	327.9	313.6	281.8	244.9	199.6	156.8	125.8	107.3	96.4	92.2	91.4
22.5°	362.3	343.8	302.7	259.1	205.5	158.5	127.5	108.2	97.3	91.4	89.7
25°	394.2	373.2	324.5	279.3	218.9	162.7	129.1	110.7	99.0	92.2	91.4
27.5°	420.2	397.5	352.2	300.2	233.1	172.8	137.5	115.7	101.5	94.8	93.1
30°	449.5	428.5	380.7	322.0	246.6	185.3	149.3	125.0	109.0	99.8	99.0
32.5°	493.1	467.1	411.8	344.7	262.5	198.8	161.0	133.3	114.1	109.0	109.0
35°	571.9	545.1	472.1	381.6	277.6	212.2	172.8	142.6	121.6	109.9	109.0
37.5°	719.5	682.6	591.2	465.4	303.6	223.1	182.8	150.1	125.8	109.0	106.5
40°	787.5	724.6	627.3	509.9	341.3	235.7	191.2	156.0	126.6	111.5	109.9
42.5°	868.0	815.1	677.6	520.8	369.0	266.7	205.5	162.7	131.7	114.9	113.2
45°	945.1	894.0	778.2	615.6	431.1	312.8	230.6	176.1	140.1	119.9	116.6
47.5°	1085.2	1031.5	870.5	712.8	516.6	384.9	280.9	197.1	151.8	125.0	120.8
50°	1449.1	1372.8	1183.3	944.3	660.8	488.9	359.8	240.7	167.7	127.5	122.4
52.5°	1918.8	1802.2	1596.7	1291.5	945.1	691.9	504.0	349.7	195.4	128.3	120.8
55°	2680.3	2536.9	2206.4	1760.3	1323.4	1032.4	763.2	537.6	287.6	134.2	119.9
57.5°	3402.3	3295.8	3007.3	2408.5	1755.2	1311.6	1003.8	756.4	391.6	147.6	125.8
60°	3933.2	3730.2	3393.1	2779.2	2120.1	1522.1	1117.1	786.6	402.5	150.1	130.0
62.5°	4250.2	3999.4	3499.6	2832.9	2172.0	1565.7	1162.3	723.7	325.4	146.8	135.9
63°	*4273.6*	*4030.4*	*3513.0*	*2814.4*	*2155.3*	*1554.0*	*1155.6*	*708.6*	*316.2*	*145.9*	*137.5*
65°	4244.3	4033.0	3466.1	2718.0	2012.7	1450.0	1076.0	636.5	256.6	143.4	139.2
67.5°	3952.5	3780.5	3220.3	2457.2	1792.1	1252.1	890.6	485.6	200.4	136.7	135.0
70°	3308.4	3111.3	2603.1	2031.2	1420.6	1011.4	710.3	376.5	165.2	130.0	128.3
72.5°	2462.2	2380.0	1977.5	1545.6	1092.7	779.9	533.4	286.0	146.8	125.0	123.3
75°	1990.9	1867.6	1568.2	1221.0	831.1	579.5	395.8	214.7	134.2	120.8	119.1
77.5°	1646.2	1564.0	1304.9	921.7	592.9	417.6	291.0	170.2	128.3	118.2	117.4
80°	1274.7	1223.6	1018.1	681.8	424.3	311.1	230.6	156.0	125.8	117.4	116.6
82.5°	899.0	883.1	741.3	509.9	360.6	278.4	214.7	153.5	126.6	119.1	117.4
85°	744.7	710.3	623.9	484.7	342.2	266.7	207.1	151.0	126.6	118.2	117.4
87.5°	725.4	696.9	603.8	453.7	313.6	246.6	194.6	145.1	122.4	114.9	114.1
90°	655.8	627.3	540.9	405.1	295.2	231.5	182.0	137.5	117.4	111.5	109.9
92.5°	559.4	533.4	469.6	368.2	282.6	222.2	177.0	135.0	116.6	109.9	109.0
95°	485.6	463.8	411.8	338.8	260.8	207.1	167.7	130.0	113.2	107.3	106.5
97.5°	386.6	373.2	332.9	275.9	220.6	181.1	150.1	122.4	109.0	104.0	103.2
100°	340.5	328.7	296.9	249.9	204.6	171.1	145.1	119.9	105.7	101.5	100.6
102.5°	319.5	310.3	281.8	234.8	192.0	162.7	138.4	115.7	103.2	99.0	98.1
105°	303.6	295.2	269.2	223.9	181.1	151.8	130.0	110.7	99.0	95.6	94.8
107.5°	284.3	277.6	252.4	208.0	170.2	142.6	123.3	106.5	96.4	93.1	93.1

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

Scaled Data Report

REPORT NUMBER: P1046256
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	268.4	263.3	237.3	198.8	162.7	136.7	119.1	104.8	95.6	92.2	92.2
112.5°	251.6	245.7	221.4	187.0	156.0	132.5	115.7	102.3	93.9	90.6	90.6
115°	233.1	227.3	203.8	173.6	147.6	125.8	110.7	98.1	90.6	88.1	88.1
117.5°	236.5	221.4	192.9	166.0	140.9	120.8	107.3	96.4	88.1	86.4	85.5
120°	239.8	220.6	199.6	174.4	145.1	118.2	104.8	93.9	87.2	84.7	84.7
122.5°	234.0	236.5	218.0	179.5	138.4	115.7	104.0	94.8	88.1	85.5	86.4
125°	228.9	234.8	213.0	169.4	133.3	114.9	104.0	97.3	91.4	88.9	88.9
127.5°	210.5	211.3	181.1	151.8	130.0	112.4	103.2	98.1	93.1	89.7	88.1
130°	185.3	183.7	169.4	147.6	122.4	108.2	99.8	97.3	92.2	86.4	85.5
132.5°	198.8	193.7	170.2	140.1	115.7	104.0	99.0	95.6	87.2	80.5	79.7
135°	188.7	183.7	159.3	130.8	112.4	105.7	103.2	94.8	82.2	77.2	76.3
137.5°	171.9	163.5	143.4	125.0	114.1	109.9	104.0	93.1	80.5	74.6	73.8
140°	165.2	156.8	140.9	128.3	115.7	102.3	92.2	82.2	73.8	68.8	67.9
142.5°	173.6	166.9	151.0	128.3	108.2	93.9	84.7	78.0	70.4	62.9	62.1
145°	202.1	189.5	167.7	144.2	123.3	106.5	92.2	78.0	64.6	56.2	55.3
147.5°	223.9	213.9	190.4	163.5	134.2	107.3	86.4	68.8	57.9	52.8	52.0
150°	186.2	180.3	162.7	140.9	119.1	94.8	74.6	61.2	54.5	52.8	52.8
152.5°	130.0	125.8	119.9	105.7	88.9	74.6	63.7	57.0	54.5	53.7	53.7
155°	114.9	112.4	104.8	92.2	80.5	69.6	61.2	56.2	55.3	54.5	54.5
157.5°	99.0	98.1	93.1	83.0	73.8	65.4	59.5	57.0	55.3	54.5	54.5
160°	88.9	86.4	81.3	74.6	68.8	63.7	60.4	58.7	57.0	56.2	56.2
162.5°	83.0	81.3	75.5	70.4	67.1	66.3	67.1	66.3	62.1	59.5	58.7
165°	78.8	78.0	72.1	68.8	67.1	71.3	76.3	74.6	67.1	62.9	62.9
167.5°	78.8	77.2	71.3	68.8	73.0	78.8	83.0	82.2	75.5	71.3	68.8
170°	74.6	73.0	71.3	72.1	78.0	80.5	81.3	83.0	83.9	88.1	89.7
172.5°	72.1	72.1	73.8	77.2	82.2	83.0	80.5	81.3	88.9	98.1	99.0
175°	75.5	75.5	78.8	84.7	87.2	88.9	85.5	86.4	94.8	104.0	104.8
177.5°	72.1	73.0	74.6	75.5	74.6	72.1	71.3	74.6	72.1	71.3	73.8
180°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4

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

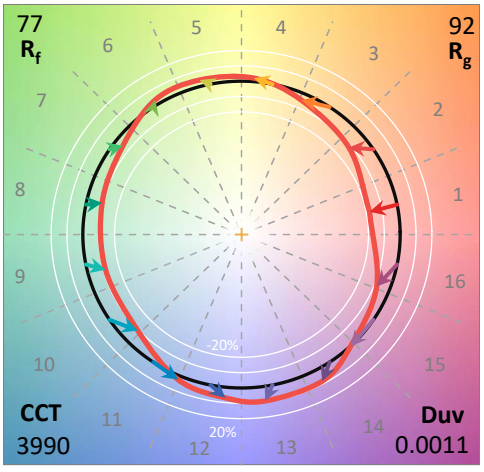
Test Information

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

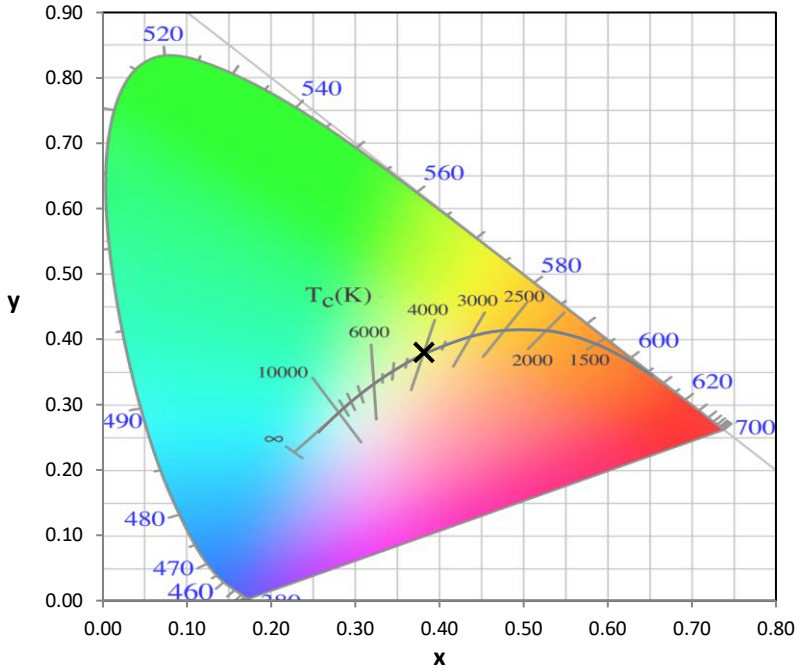
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

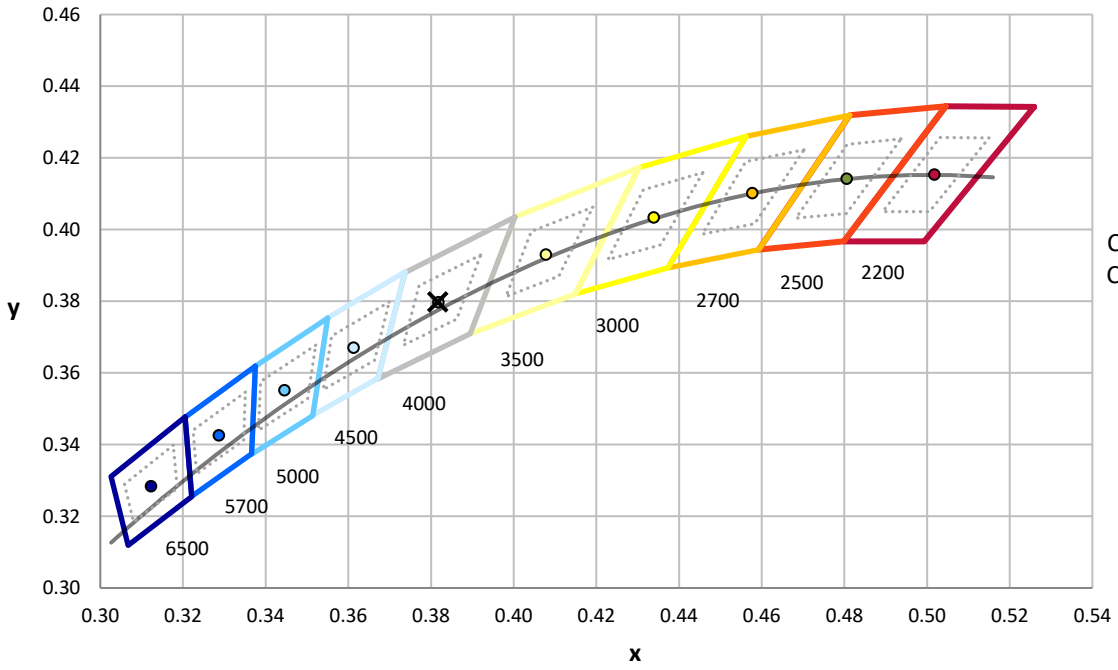
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

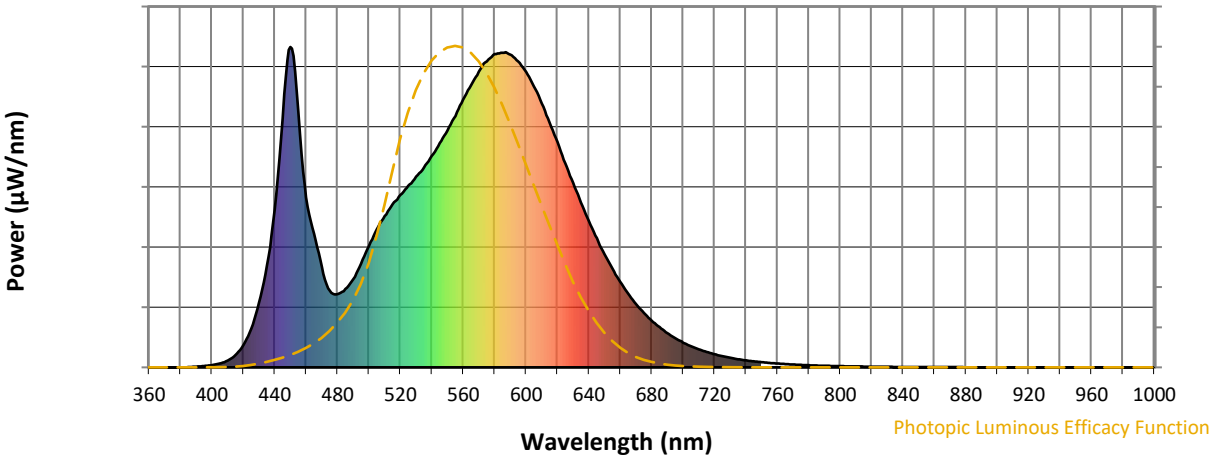


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

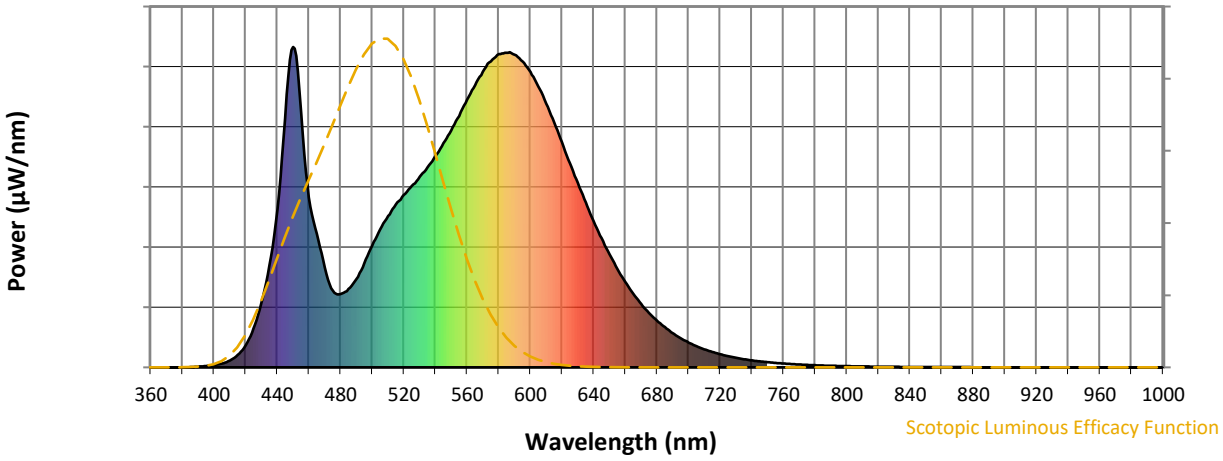


Photopic Lumens: NR

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

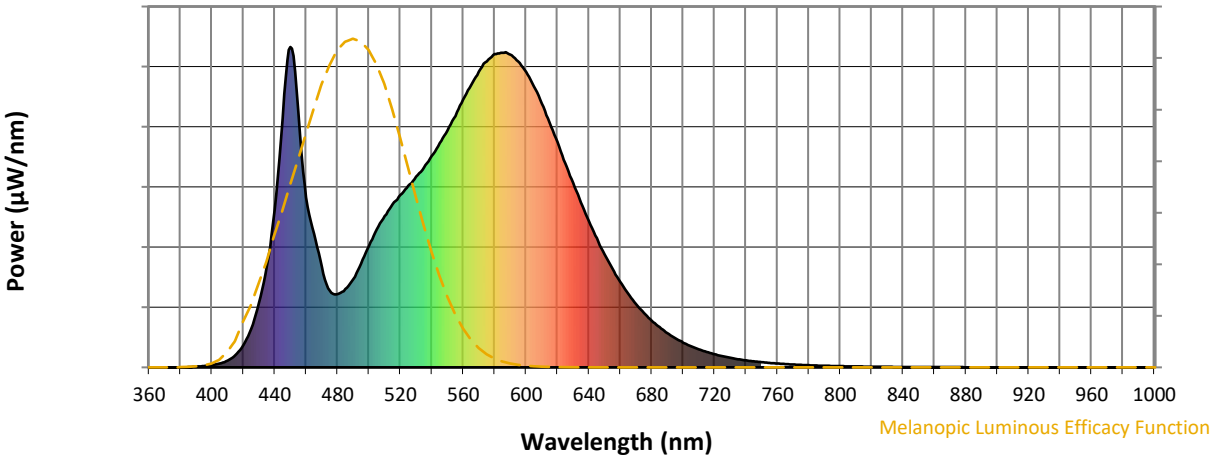


Scotopic Lumens: NR **S/P: 1.59**

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			

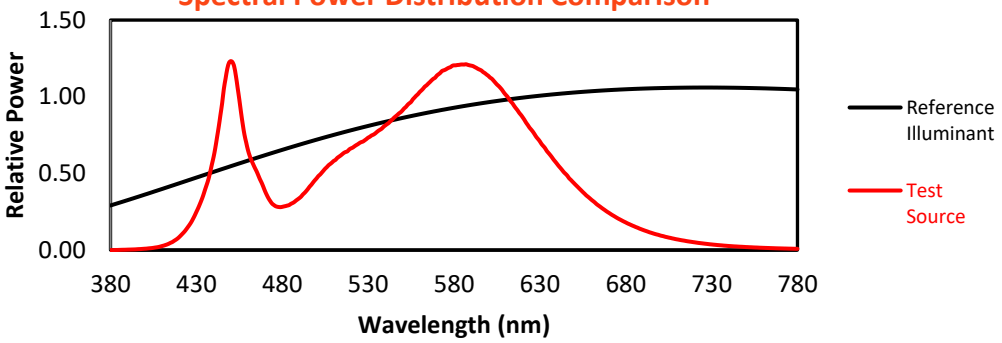
REPORT NUMBER: SP1-2501-332-1

TM-30-18

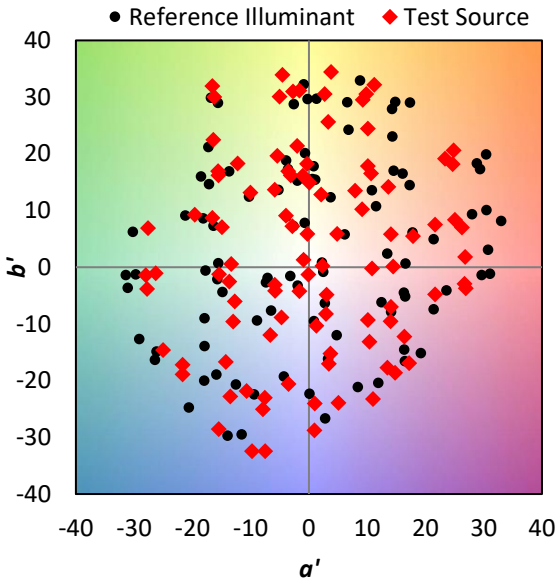
Summary

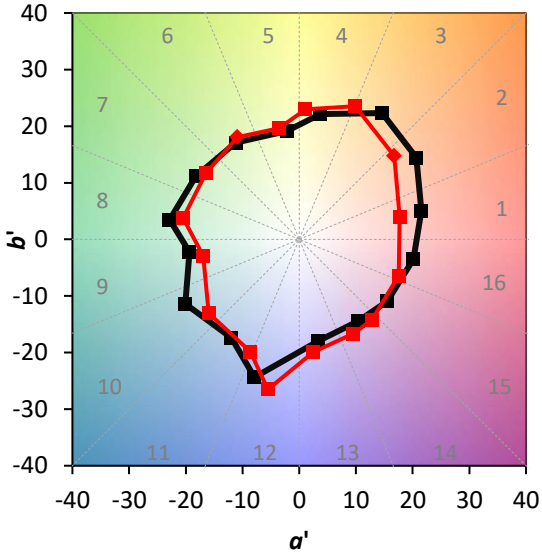
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

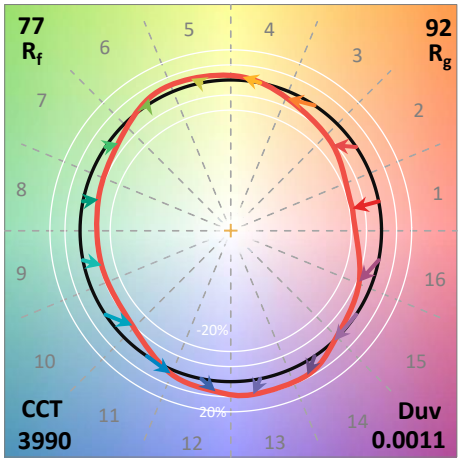
Spectral Power Distribution Comparison

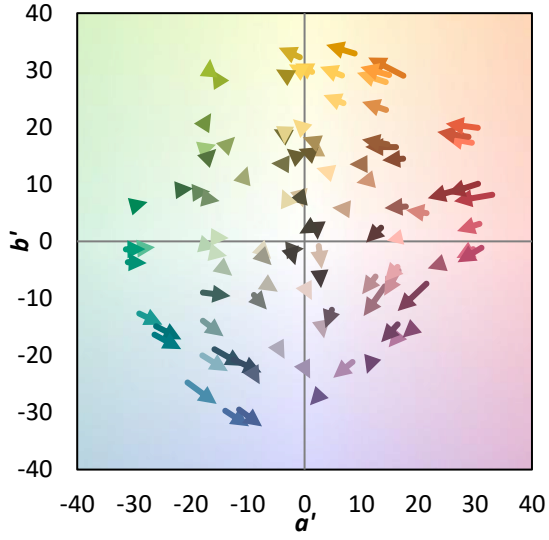


Color Vector Graphics







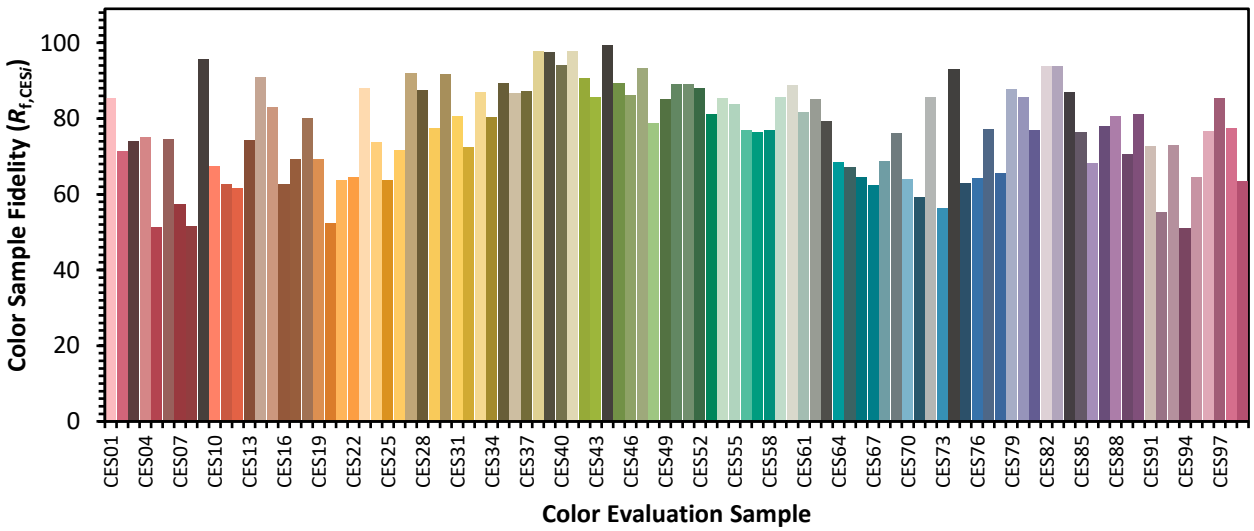


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

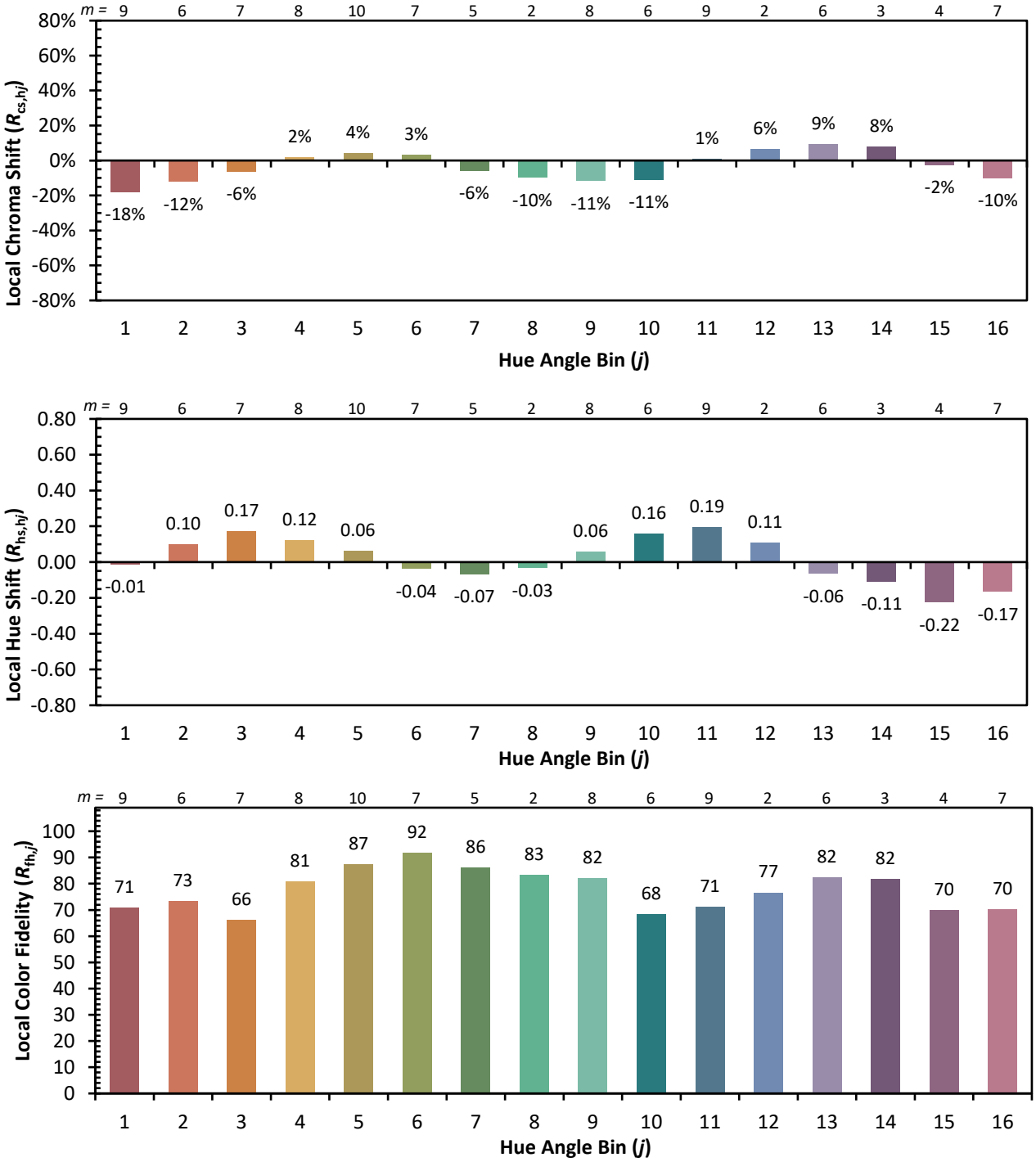
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57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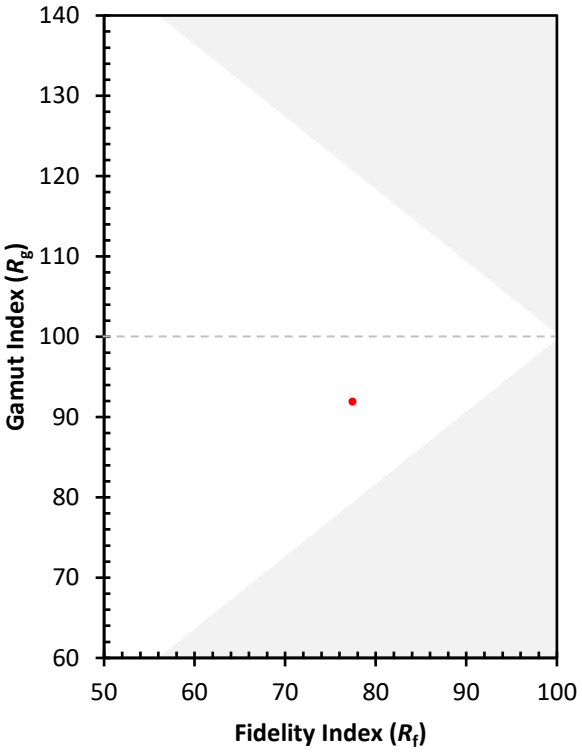
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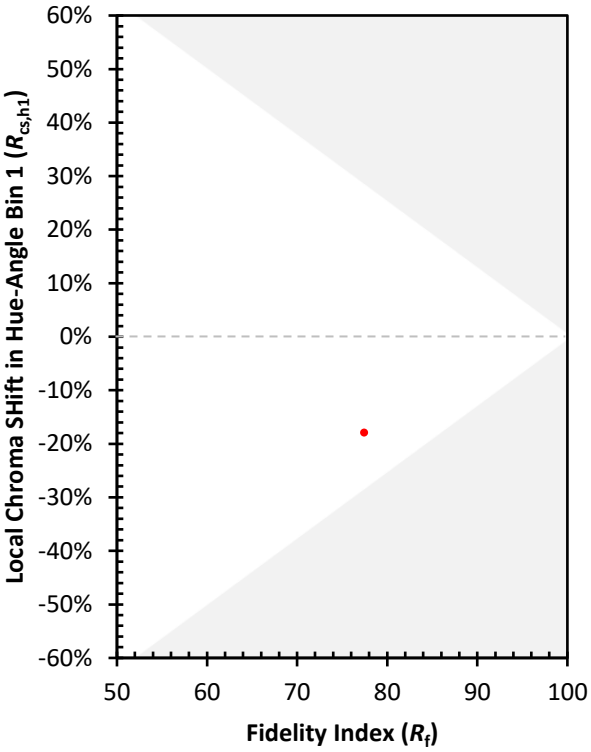


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Measure Comparisons





(END OF REPORT)