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: P1045808

Luminaire Tested: **FFX-CLB-60-740-U-FR-T5-HSS**

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:	P1045808
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-740-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6642.5 lumens
Efficiency:	N/A
Efficacy:	109.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

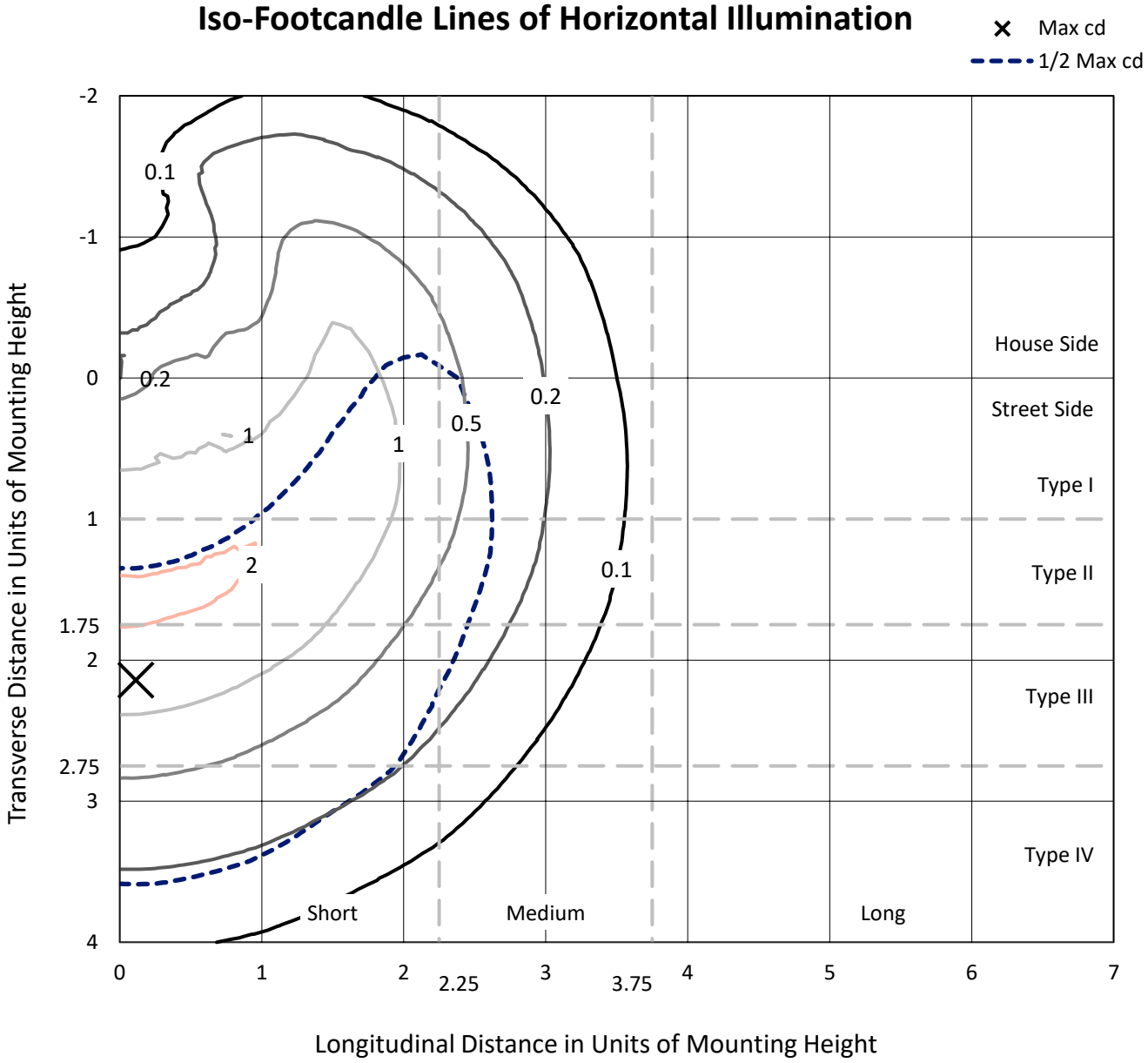


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Iso-Footcandle Lines of Horizontal Illumination



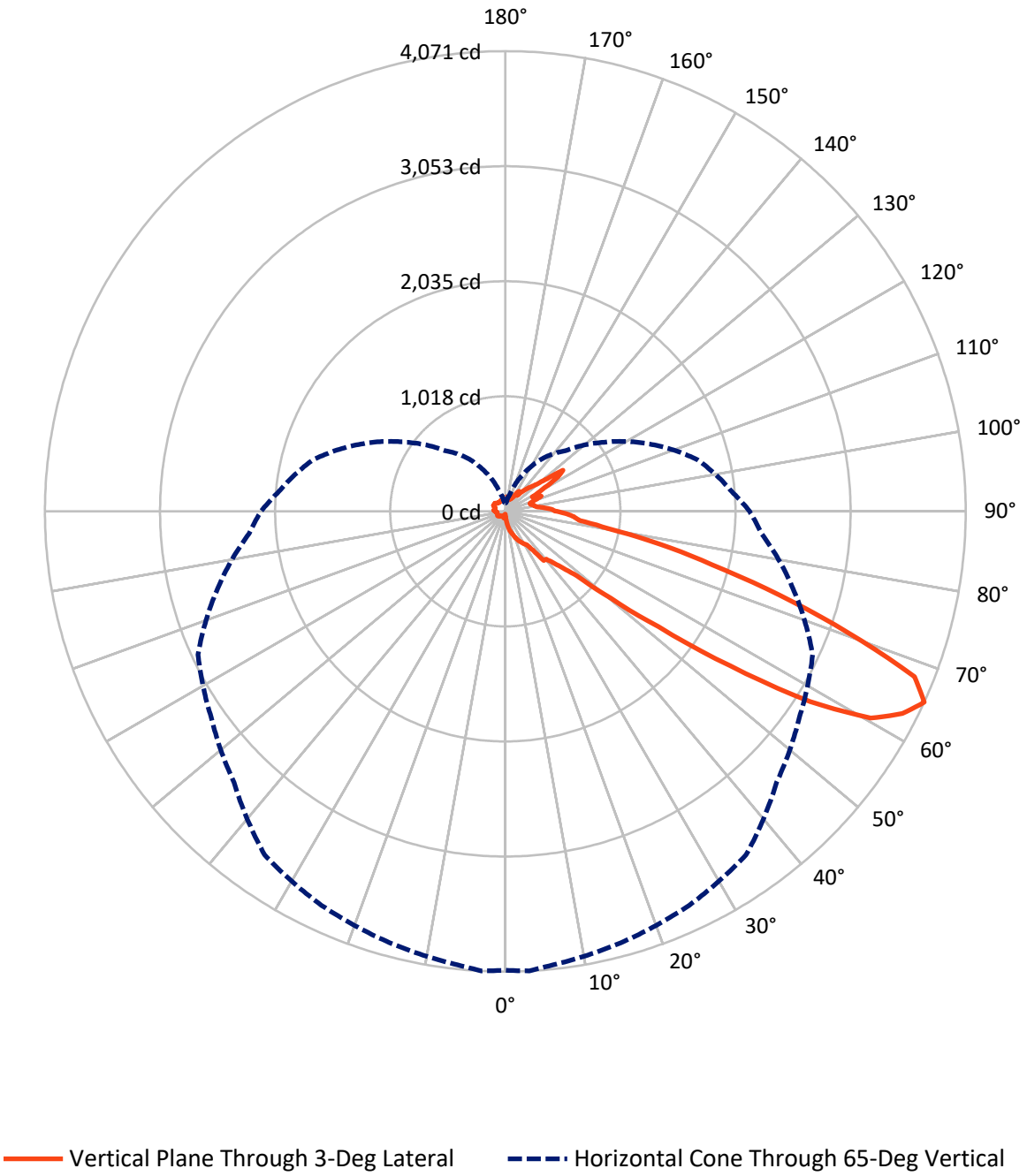
Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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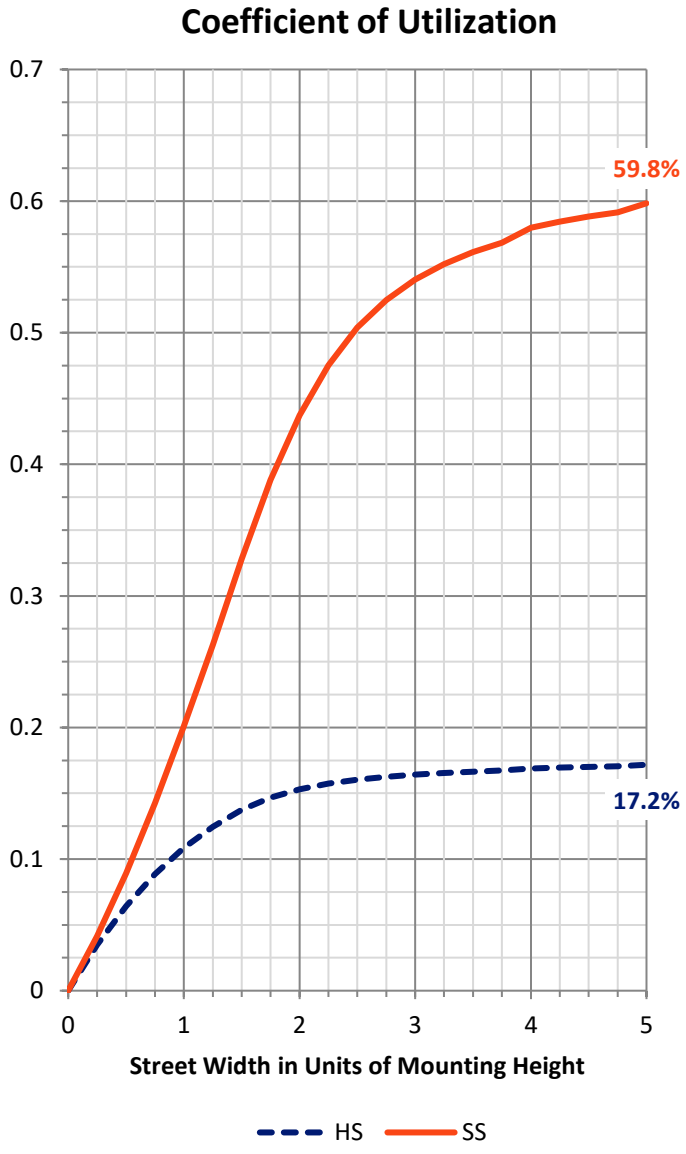
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.2	461.0	1645.1
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	4139.5	857.8	4997.3
	% Fixture	62.3	12.9	75.2
Total	Lumens	5323.7	1318.8	6642.5
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	37.6	0.6
20°-30°	82.9	1.2
30°-40°	165.4	2.5
40°-50°	357.0	5.4
50°-60°	1220.7	18.4
60°-70°	1983.6	29.9
70°-80°	1067.4	16.1
80°-90°	402.2	6.1
90°-100°	253.7	3.8
100°-110°	180.3	2.7
110°-120°	199.0	3.0
120°-130°	304.1	4.6
130°-140°	182.4	2.7
140°-150°	100.7	1.5
150°-160°	56.1	0.8
160°-170°	31.0	0.5
170°-180°	11.5	0.2
0°-90°	5323.7	80.1
0°-180°	6642.5	100.0



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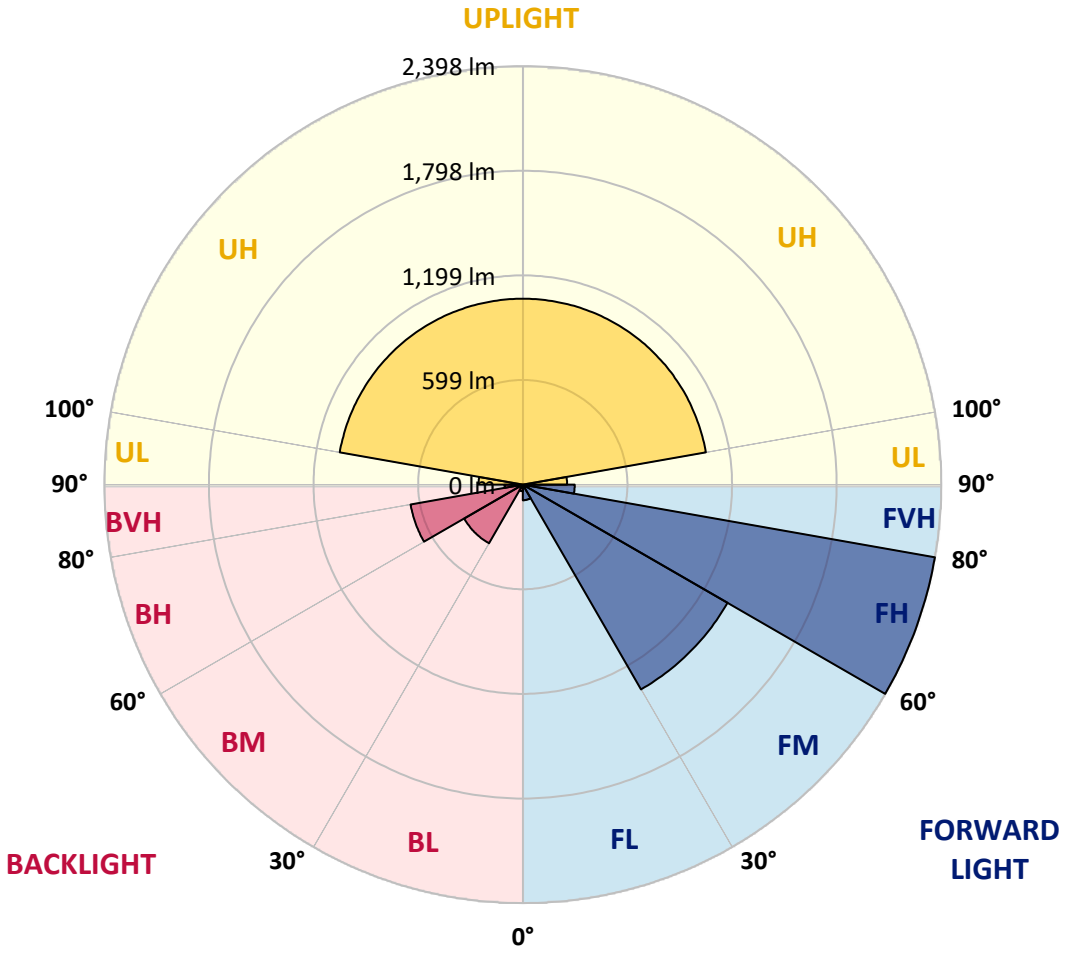
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	89.6	1.3			
FM	(30°-60°)	1354.9	20.4			
FH	(60°-80°)	2397.9	36.1			G2/5000
FVH	(80°-90°)	297.2	4.5			G3/500
BL	(0°-30°)	37.8	0.6	B0/110		
BM	(30°-60°)	388.3	5.8	B1/1000		
BH	(60°-80°)	653.1	9.8	B2/1000		G2/1000
BVH	(80°-90°)	104.9	1.6			G2/225
UL	(90°-100°)	253.7	3.8		U3/500	
UH	(100°-180°)	1065.1	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2.5°	52.8	53.6	53.6	53.6	55.1	55.8	55.1	52.8	49.9	48.4	46.9
5°	76.6	78.1	77.4	77.4	75.9	75.9	73.7	72.2	70.7	65.5	60.3
7.5°	106.4	104.9	104.2	102.7	103.4	99.7	96.7	96.7	94.5	89.3	81.1
10°	137.7	137.7	135.4	134.7	133.2	131.7	126.5	123.5	123.5	114.6	104.9
12.5°	171.9	171.1	171.9	170.4	168.2	164.4	158.5	151.8	148.1	139.9	125.7
15°	194.2	193.5	193.5	192.7	191.2	187.5	183.0	176.3	166.7	158.5	145.1
17.5°	218.0	216.5	216.5	212.8	209.8	205.4	201.6	194.9	183.0	168.2	155.5
20°	244.1	244.1	244.1	238.8	232.9	226.9	221.7	215.8	206.9	184.5	166.7
22.5°	268.6	269.4	268.6	263.4	258.2	248.5	240.3	232.9	224.0	201.6	180.1
25°	292.4	293.9	293.2	293.2	286.5	273.8	262.7	251.5	245.5	223.2	193.5
27.5°	313.3	314.0	314.7	318.5	314.7	300.6	282.7	269.4	264.9	240.3	204.6
30°	333.3	335.6	335.6	339.3	338.6	322.9	301.4	286.5	277.5	253.7	215.8
32.5°	352.7	354.2	354.9	363.9	363.1	342.3	323.7	307.3	292.4	274.6	235.1
35°	422.6	420.4	431.6	438.3	433.1	414.5	392.1	361.6	340.8	320.0	277.5
37.5°	552.8	551.4	551.4	536.5	515.6	494.1	488.1	456.1	430.8	404.0	346.0
40°	556.6	556.6	558.8	575.2	585.6	558.1	532.0	500.8	495.6	468.0	397.3
42.5°	610.9	616.8	622.8	634.0	652.6	634.7	604.9	555.1	531.3	503.0	442.7
45°	703.2	712.1	709.1	713.6	709.1	693.5	691.2	663.7	628.0	573.7	492.6
47.5°	855.7	850.5	847.5	865.4	894.4	865.4	858.7	814.8	746.3	677.1	584.8
50°	1230.7	1208.4	1231.4	1227.7	1222.5	1195.7	1175.6	1131.7	1020.1	907.8	774.6
52.5°	1733.0	1696.5	1717.3	1731.5	1716.6	1678.6	1618.4	1532.8	1382.5	1237.4	1061.8
55°	2462.9	2412.3	2419.0	2436.8	2447.3	2361.0	2274.6	2085.6	1860.2	1636.2	1445.7
57.5°	3268.7	3177.9	3237.5	3137.8	3096.8	2942.8	2869.9	2678.7	2413.8	2114.7	1807.4
60°	3722.6	3712.9	3701.8	3624.4	3581.2	3408.6	3237.5	3058.2	2820.8	2467.4	2108.0
62.5°	3919.8	3940.6	3924.3	3884.1	3845.4	3693.6	3396.0	3183.2	2990.4	2627.3	2268.7
65°	4058.9	4070.8	4043.3	3950.3	3845.4	3710.0	3392.2	3175.0	2998.6	2632.5	2275.4
67.5°	3899.7	3901.9	3868.5	3747.9	3535.1	3416.1	3108.0	2918.3	2745.6	2433.1	2099.0
70°	3212.2	3218.9	3198.0	3090.9	2912.3	2808.9	2512.0	2317.1	2186.8	1971.1	1724.8
72.5°	2503.8	2532.8	2503.1	2460.7	2291.0	2214.4	2015.0	1857.2	1737.4	1534.3	1335.6
75°	1882.5	1889.2	1890.0	1842.3	1753.0	1735.9	1599.0	1494.8	1390.7	1224.0	1078.2
77.5°	1365.4	1395.1	1384.7	1376.5	1259.7	1266.4	1212.1	1150.3	1084.9	974.0	869.8
80°	906.3	921.9	903.3	907.8	892.1	888.4	837.8	796.2	756.0	704.6	663.7
82.5°	660.7	657.8	656.3	648.1	636.2	638.4	613.1	561.8	513.4	503.0	465.0
85°	610.9	608.7	606.4	591.5	566.2	550.6	536.5	515.6	485.9	439.0	389.9
87.5°	534.2	535.0	529.8	514.2	497.8	493.3	482.2	468.8	453.9	418.9	375.8
90°	439.7	437.5	438.3	429.3	432.3	430.8	413.7	397.3	391.4	361.6	336.3
92.5°	406.3	404.0	404.8	398.1	387.7	385.4	366.8	346.7	337.8	319.2	299.9
95°	339.3	339.3	336.3	333.3	328.1	320.7	311.0	297.6	290.9	276.1	256.7
97.5°	285.0	282.0	284.2	279.0	274.6	271.6	264.1	250.8	244.1	232.9	218.0
100°	264.9	264.9	264.1	261.9	250.8	244.8	236.6	224.0	218.8	209.1	197.9
102.5°	253.7	253.0	252.2	250.0	239.6	229.2	218.8	211.3	205.4	197.2	185.3
105°	232.2	232.2	233.6	232.9	225.5	218.8	207.6	200.9	194.9	186.8	175.6
107.5°	229.9	229.2	229.2	220.2	210.6	206.9	198.7	192.7	187.5	179.3	166.7
110°	263.4	264.9	267.1	252.2	229.2	219.5	207.6	200.9	194.9	184.5	171.1

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	345.3	*345.3*	343.8	335.6	295.4	268.6	262.7	245.5	235.9	220.2	201.6
115°	310.3	*311.0*	310.3	312.5	309.5	276.1	282.0	253.7	270.1	233.6	221.0
117.5°	270.8	*270.1*	267.1	267.9	270.8	292.4	245.5	238.8	245.5	212.8	201.6
120°	378.0	*371.3*	378.0	350.5	346.0	349.7	322.9	317.7	289.4	250.0	220.2
122.5°	556.6	*546.2*	561.0	551.4	558.8	534.2	508.2	486.6	455.4	389.2	329.6
125°	628.7	*626.5*	622.8	609.4	597.5	587.1	591.5	599.7	582.6	529.0	459.8
127.5°	462.8	*468.8*	466.5	493.3	519.4	513.4	497.8	505.2	514.2	511.2	470.3
130°	369.1	*374.3*	377.2	403.3	425.6	425.6	400.3	393.6	401.1	416.7	401.1
132.5°	323.7	*325.2*	326.6	335.6	354.2	363.1	347.5	337.1	340.0	348.2	334.8
135°	291.7	*290.9*	288.7	282.7	284.2	293.2	299.9	298.4	296.1	296.1	288.7
137.5°	253.0	*252.2*	252.2	243.3	239.6	247.0	256.7	265.6	259.7	251.5	242.6
140°	210.6	*209.8*	210.6	215.8	217.3	218.0	223.2	223.2	223.2	222.5	218.8
142.5°	174.9	*175.6*	177.1	190.5	197.2	197.2	190.5	184.5	183.8	188.3	189.0
145°	215.0	*215.0*	215.8	215.0	210.6	206.1	201.6	201.6	197.2	186.8	181.6
147.5°	192.0	*194.9*	192.7	194.9	196.4	197.2	196.4	198.7	199.4	193.5	185.3
150°	151.0	*150.3*	148.8	151.0	154.8	159.2	160.7	162.2	163.0	163.0	163.0
152.5°	131.0	*131.7*	131.0	133.2	135.4	136.2	138.4	138.4	139.1	138.4	136.9
155°	127.2	*127.2*	127.2	127.2	128.0	129.5	132.4	133.9	132.4	130.2	126.5
157.5°	118.3	*118.3*	118.3	119.1	120.5	122.0	124.3	125.7	125.7	124.3	121.3
160°	113.1	*113.1*	113.1	113.1	114.6	116.1	117.6	119.1	119.1	118.3	116.1
162.5°	107.1	*107.1*	107.1	107.9	109.4	110.9	112.4	113.8	113.1	113.1	111.6
165°	106.4	*106.4*	106.4	107.1	108.6	110.9	111.6	111.6	112.4	112.4	112.4
167.5°	109.4	*109.4*	110.1	110.1	111.6	112.4	113.8	114.6	115.3	114.6	114.6
170°	113.8	*113.8*	113.8	114.6	115.3	115.3	116.1	116.1	116.8	116.8	116.8
172.5°	119.8	*119.8*	119.8	119.8	119.1	119.1	119.1	119.1	119.8	119.1	119.8
175°	126.5	*126.5*	126.5	125.7	125.0	125.0	124.3	124.3	123.5	122.8	122.8
177.5°	127.2	*127.2*	127.2	127.2	126.5	125.7	125.7	125.0	124.3	124.3	124.3
180°	124.3	*124.3*	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2.5°	45.4	43.9	40.2	37.2	35.0	32.0	29.8	27.5	26.0	25.3	24.6
5°	59.5	56.5	52.1	47.6	43.9	38.7	35.7	30.5	26.8	25.3	24.6
7.5°	78.1	75.9	73.7	72.9	71.4	64.7	55.1	47.6	46.1	44.6	46.1
10°	99.7	95.2	88.5	92.3	92.3	79.6	66.2	58.8	58.0	61.0	61.8
12.5°	119.8	113.8	105.7	104.9	96.7	79.6	65.5	58.0	57.3	58.0	58.8
15°	138.4	131.7	122.8	115.3	102.7	84.8	68.5	58.8	56.5	58.8	58.8
17.5°	148.8	142.1	129.5	115.3	100.5	84.1	67.7	57.3	52.1	49.1	49.1
20°	161.5	156.3	139.1	121.3	101.2	83.3	67.0	55.8	49.9	46.9	46.1
22.5°	172.6	166.7	148.1	128.7	105.7	83.3	64.7	55.1	49.9	46.9	46.1
25°	186.0	177.1	158.5	136.9	109.4	83.3	64.7	55.8	50.6	47.6	46.9
27.5°	194.9	184.5	166.7	142.9	113.8	84.8	67.0	56.5	50.6	47.6	47.6
30°	203.9	194.2	173.4	151.0	119.1	88.5	70.7	59.5	52.8	49.1	49.1
32.5°	221.7	209.1	183.8	157.7	123.5	91.5	74.4	62.5	55.1	51.3	51.3
35°	261.9	244.1	213.5	177.1	129.5	94.5	78.1	66.2	56.5	52.1	52.1
37.5°	322.9	300.6	263.4	213.5	144.4	99.0	81.1	67.7	58.0	54.3	53.6
40°	363.1	335.6	290.9	242.6	165.9	106.4	84.8	69.9	59.5	55.1	54.3
42.5°	411.5	378.0	318.5	251.5	177.1	122.0	92.3	73.7	61.8	55.8	55.1
45°	455.4	427.1	371.3	293.9	209.1	145.1	105.7	80.4	65.5	58.0	57.3
47.5°	544.7	500.8	426.4	346.7	249.3	180.1	128.7	90.8	71.4	61.0	59.5
50°	718.8	673.4	583.4	459.8	322.2	229.2	165.9	110.1	78.9	64.0	61.8
52.5°	976.2	892.9	792.4	625.8	456.9	331.1	235.1	155.5	93.8	67.0	63.2
55°	1320.7	1273.1	1095.3	883.2	651.1	495.6	361.6	241.8	139.9	70.7	64.0
57.5°	1715.8	1621.3	1459.1	1195.0	870.6	631.0	488.9	360.1	206.1	82.6	67.7
60°	1970.3	1872.1	1686.1	1419.0	1059.6	752.3	557.3	401.1	233.6	84.8	70.7
62.5°	2134.8	1997.1	1761.2	1448.7	1114.6	802.1	588.6	381.0	199.4	82.6	72.9
65°	*2160.1*	*2010.5*	*1761.2*	*1407.8*	*1064.8*	*761.2*	*569.2*	*351.9*	*157.0*	*78.9*	*75.9*
67.5°	2010.5	1848.3	1641.4	1291.0	955.4	652.6	488.9	287.2	119.1	76.6	75.2
70°	1628.0	1526.1	1337.8	1052.1	762.7	534.2	389.2	220.2	96.7	74.4	73.7
72.5°	1244.1	1170.4	1038.7	820.0	587.8	412.2	296.9	173.4	87.1	72.9	72.2
75°	990.4	923.4	816.3	631.7	448.7	317.7	221.7	133.2	79.6	72.9	71.4
77.5°	817.0	758.2	661.5	500.8	327.4	237.4	168.2	107.9	78.1	72.9	72.2
80°	628.7	586.3	514.2	363.9	234.4	177.8	133.9	96.0	78.1	74.4	73.7
82.5°	445.7	429.3	375.0	283.5	197.2	154.8	123.5	94.5	79.6	75.9	75.2
85°	370.5	351.2	312.5	247.0	183.8	149.6	122.0	96.7	83.3	80.4	79.6
87.5°	357.2	344.5	306.6	238.8	176.3	142.9	116.8	94.5	83.3	81.8	82.6
90°	322.9	308.8	279.8	222.5	168.9	142.1	119.1	98.2	86.3	84.8	84.1
92.5°	293.2	285.0	259.7	215.0	174.1	147.3	125.7	107.1	97.5	94.5	94.5
95°	250.8	242.6	228.4	197.2	165.9	144.4	125.7	109.4	101.2	99.7	99.0
97.5°	213.5	208.3	196.4	171.9	147.3	129.5	113.1	100.5	93.8	91.5	91.5
100°	194.9	190.5	180.8	164.4	145.8	131.0	117.6	106.4	100.5	99.0	99.0
102.5°	181.6	177.8	168.9	157.0	140.6	128.7	117.6	107.9	101.2	99.7	100.5
105°	170.4	166.7	157.7	145.8	132.4	119.8	111.6	104.2	96.7	94.5	94.5
107.5°	162.2	158.5	151.0	139.1	128.0	116.8	107.9	101.9	96.0	94.5	94.5
110°	165.9	160.7	149.6	136.9	127.2	117.6	110.1	104.2	99.7	97.5	97.5

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

Scaled Data Report

REPORT NUMBER: P1045808
CATALOG NUMBER: FFX-CLB-60-740-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	194.2	186.0	167.4	149.6	136.9	125.7	117.6	109.4	105.7	102.7	102.7
115°	212.8	204.6	186.0	164.4	145.8	130.2	119.1	112.4	107.9	110.9	109.4
117.5°	194.2	188.3	174.1	158.5	143.6	130.2	120.5	116.1	113.1	116.8	118.3
120°	213.5	202.4	191.2	173.4	145.8	127.2	120.5	119.1	119.1	116.1	116.1
122.5°	305.1	286.5	244.8	214.3	176.3	155.5	142.9	131.0	119.1	114.6	113.8
125°	427.1	392.1	339.3	285.7	233.6	189.7	153.3	131.0	119.8	113.1	111.6
127.5°	449.4	418.9	370.5	305.8	235.1	185.3	152.5	135.4	122.8	115.3	114.6
130°	379.5	364.6	321.4	265.6	211.3	172.6	151.0	135.4	123.5	116.8	115.3
132.5°	322.2	311.8	271.6	226.9	188.3	160.0	140.6	123.5	112.4	106.4	104.9
135°	276.8	270.1	235.1	203.1	174.1	151.0	131.0	114.6	105.7	101.9	101.2
137.5°	237.4	230.7	206.9	184.5	162.2	142.1	125.7	111.6	103.4	101.2	100.5
140°	212.8	206.9	192.0	168.2	146.6	125.7	113.8	104.9	100.5	99.0	98.2
142.5°	185.3	178.6	162.2	145.1	130.2	113.8	105.7	101.9	99.7	98.2	97.5
145°	175.6	171.1	152.5	136.9	122.8	114.6	110.1	104.9	100.5	97.5	96.7
147.5°	177.8	172.6	156.3	141.4	128.7	119.8	112.4	104.9	99.0	96.0	95.2
150°	159.2	157.7	148.1	136.2	124.3	114.6	107.1	101.2	97.5	96.7	96.7
152.5°	133.2	132.4	128.0	121.3	113.1	105.7	100.5	97.5	97.5	99.0	99.7
155°	125.0	122.8	119.8	115.3	108.6	103.4	99.7	98.2	99.0	100.5	100.5
157.5°	120.5	118.3	115.3	111.6	107.9	103.4	100.5	99.7	101.2	102.7	102.7
160°	114.6	113.1	110.9	107.1	104.2	101.9	100.5	100.5	101.2	101.9	101.9
162.5°	110.9	109.4	107.1	104.9	103.4	102.7	101.9	101.2	101.9	102.7	102.7
165°	110.9	110.1	107.1	104.9	104.2	104.2	104.2	104.2	104.2	103.4	103.4
167.5°	113.8	113.1	110.9	109.4	108.6	109.4	109.4	108.6	107.9	106.4	106.4
170°	116.8	116.1	115.3	114.6	113.8	114.6	114.6	114.6	113.8	113.8	113.1
172.5°	119.8	119.1	118.3	117.6	117.6	117.6	118.3	119.1	119.1	119.1	119.1
175°	122.8	122.8	121.3	120.5	120.5	120.5	121.3	121.3	122.0	122.0	122.0
177.5°	124.3	124.3	124.3	124.3	125.0	124.3	124.3	123.5	123.5	123.5	123.5
180°	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3

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

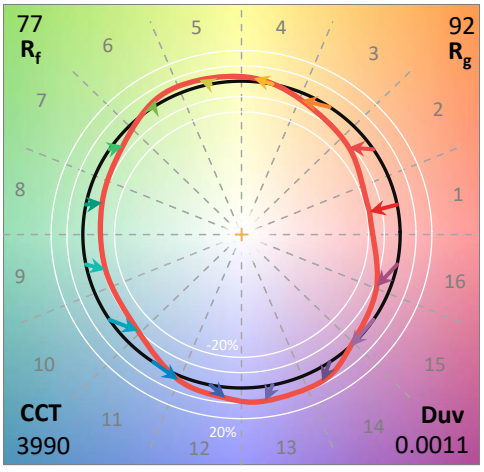
Test Information

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

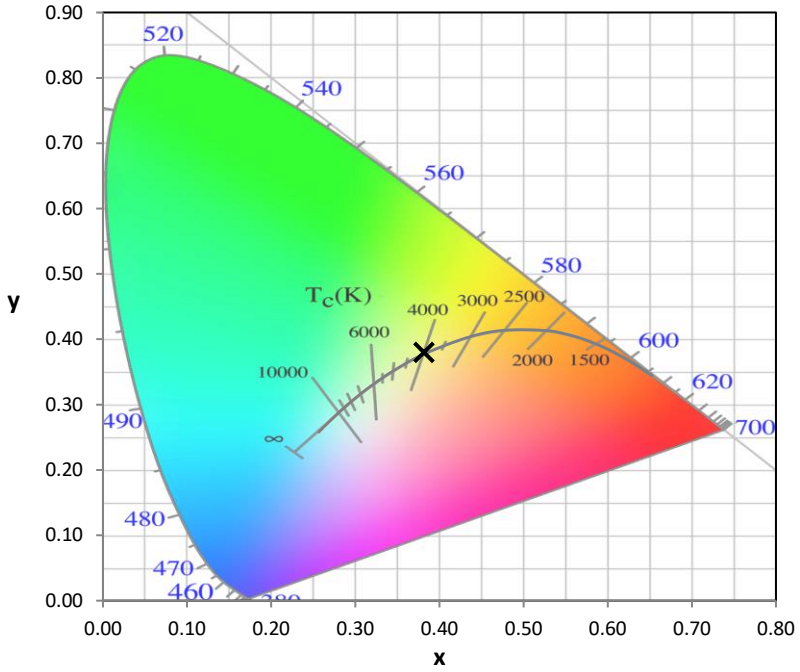
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

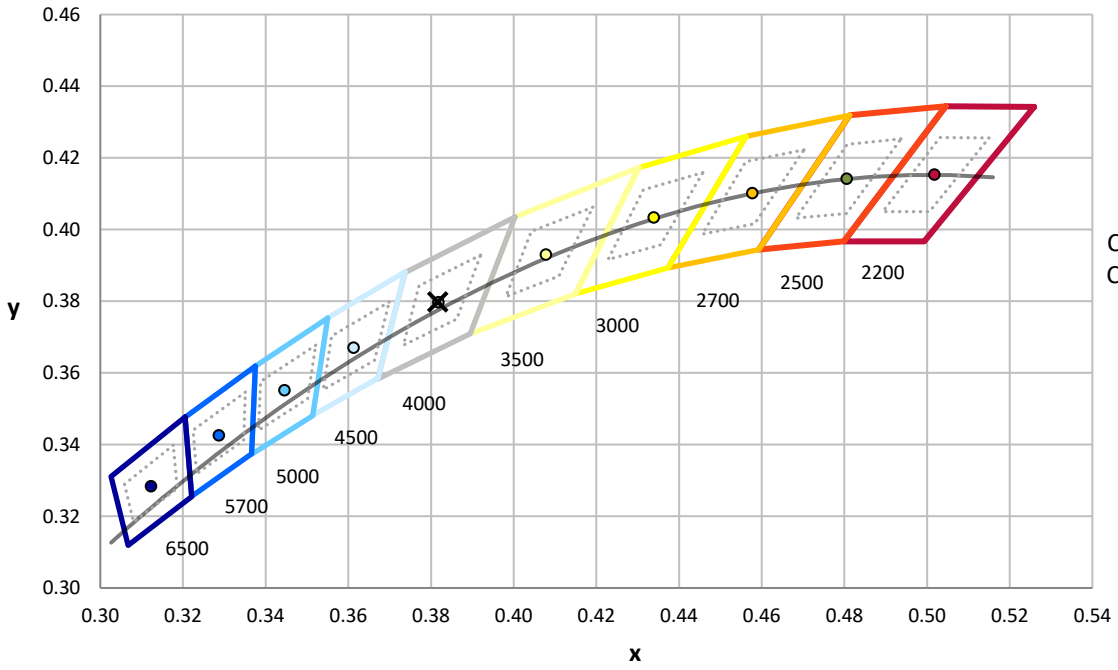
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

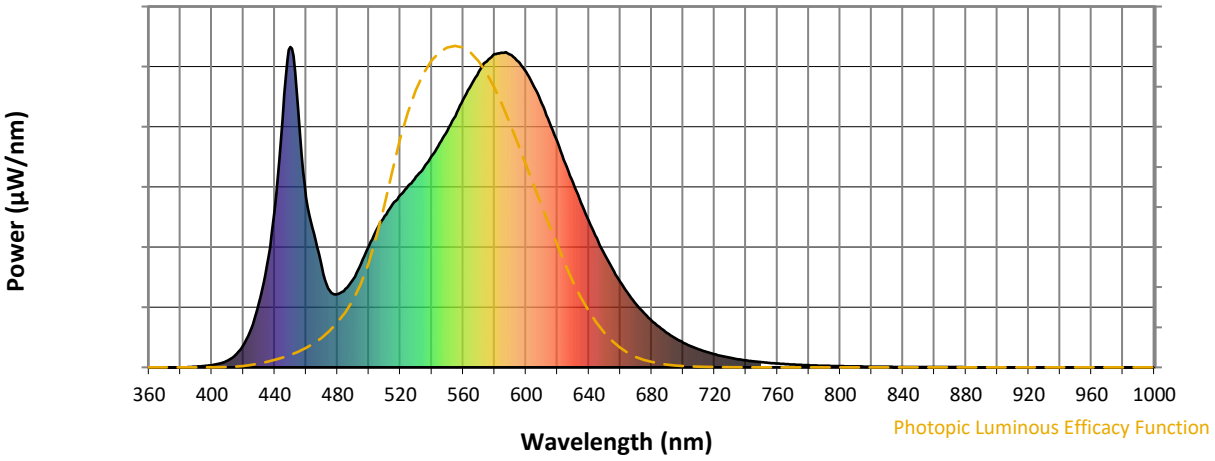


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

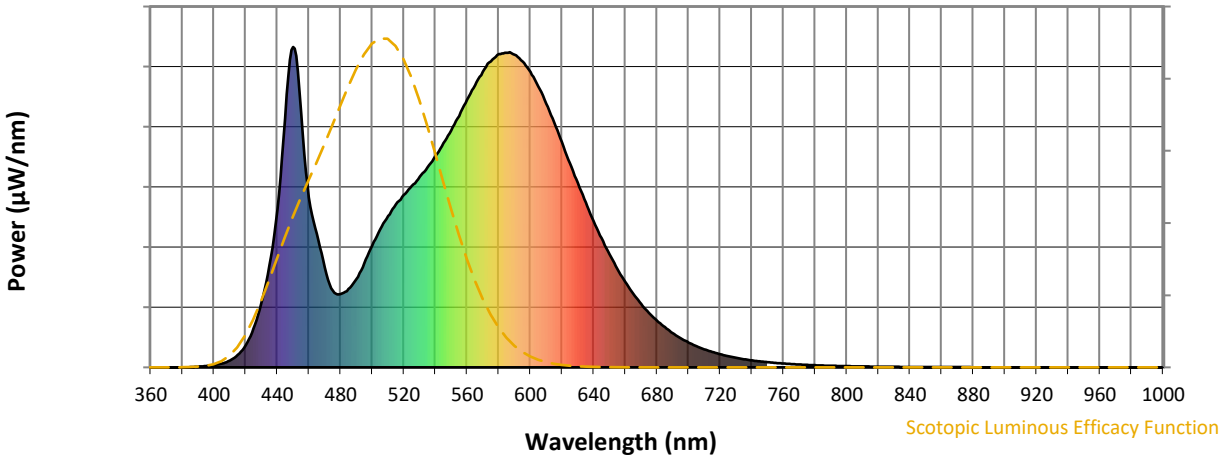


Photopic Lumens: NR

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

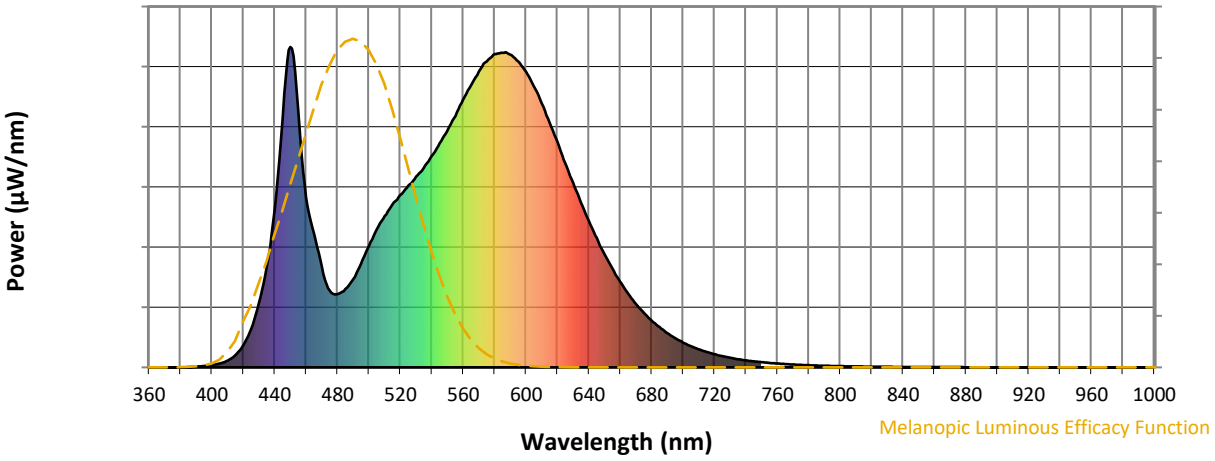


Scotopic Lumens: NR **S/P: 1.59**

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			

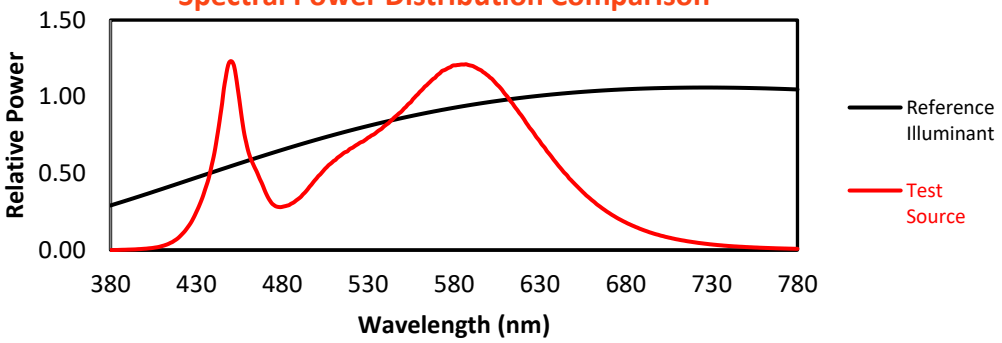
REPORT NUMBER: SP1-2501-332-1

TM-30-18

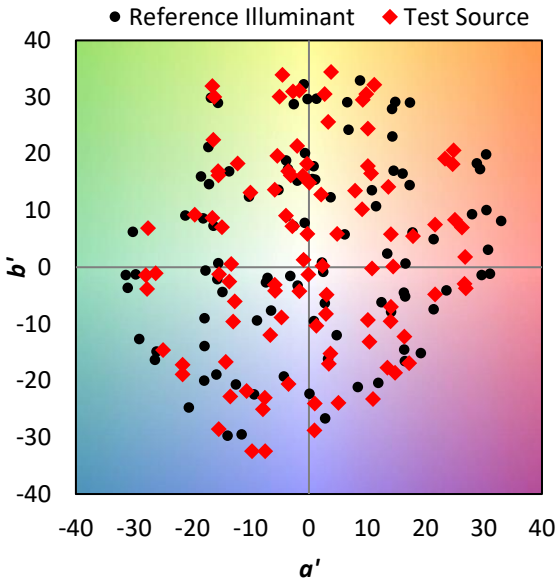
Summary

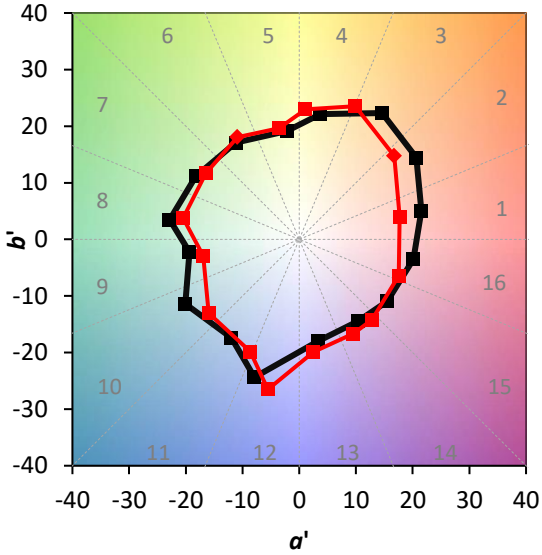
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

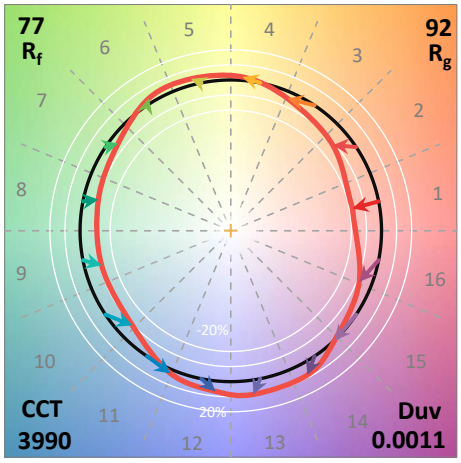
Spectral Power Distribution Comparison

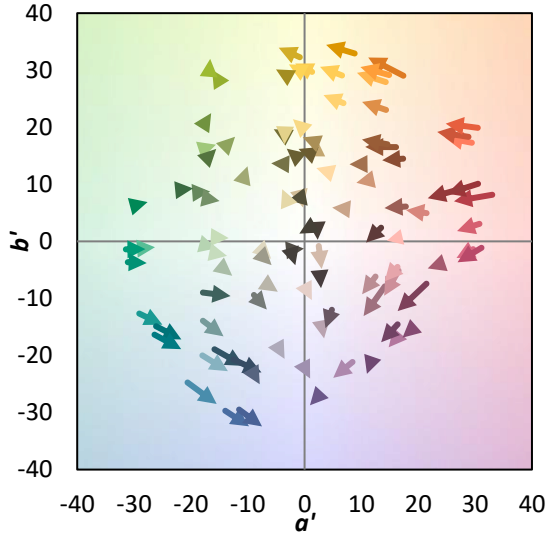


Color Vector Graphics







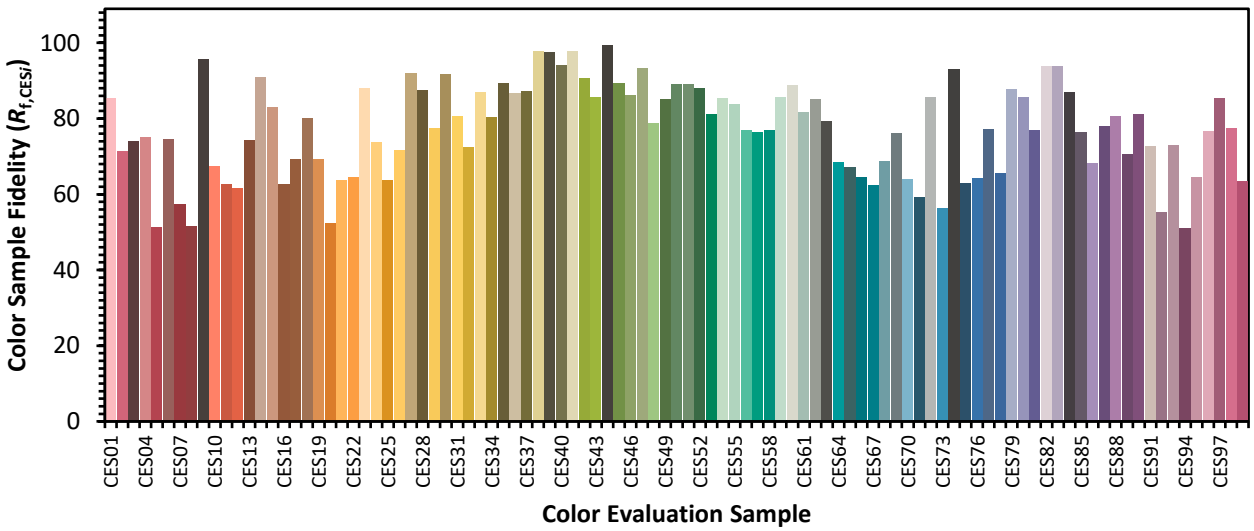


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

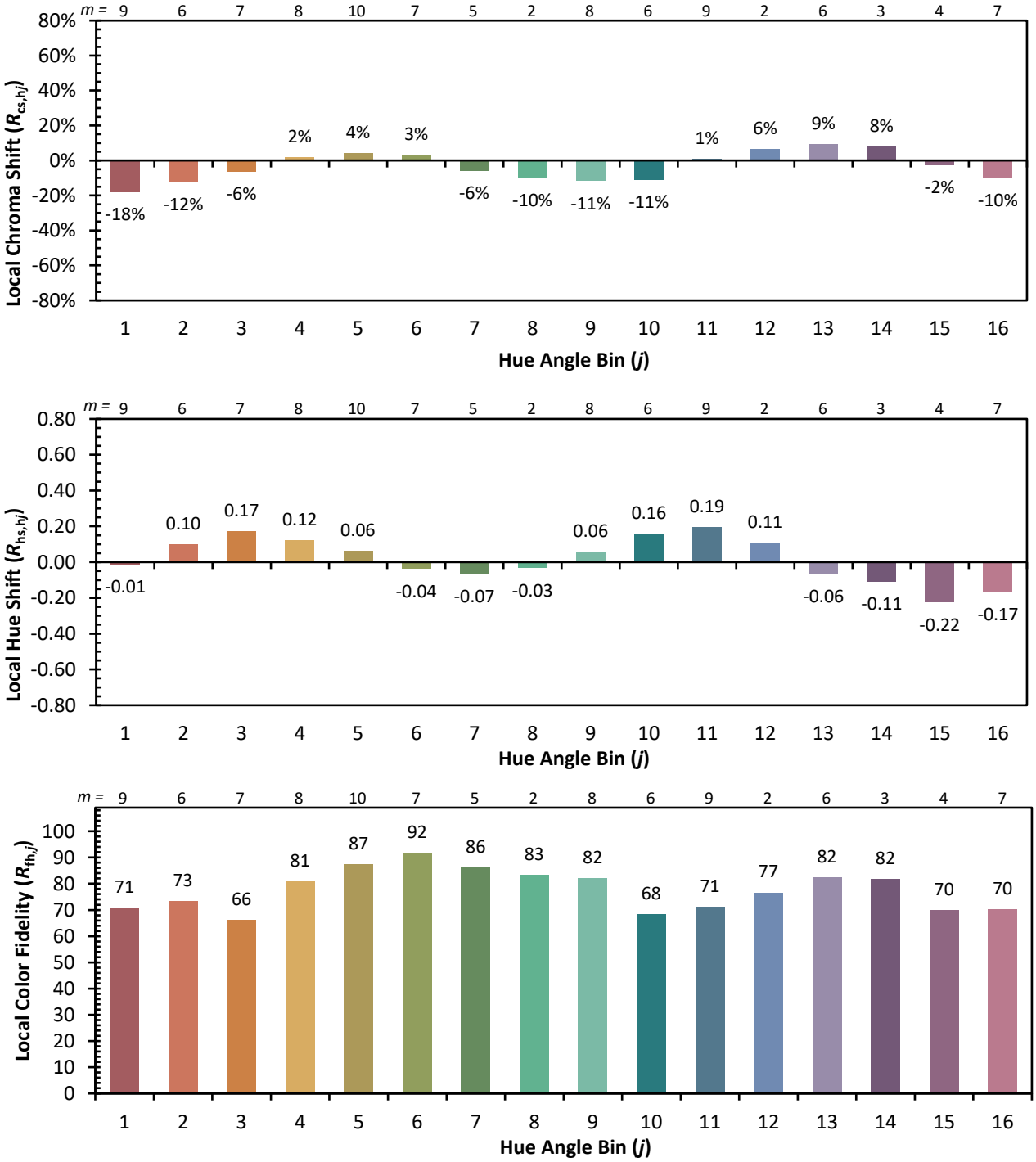
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 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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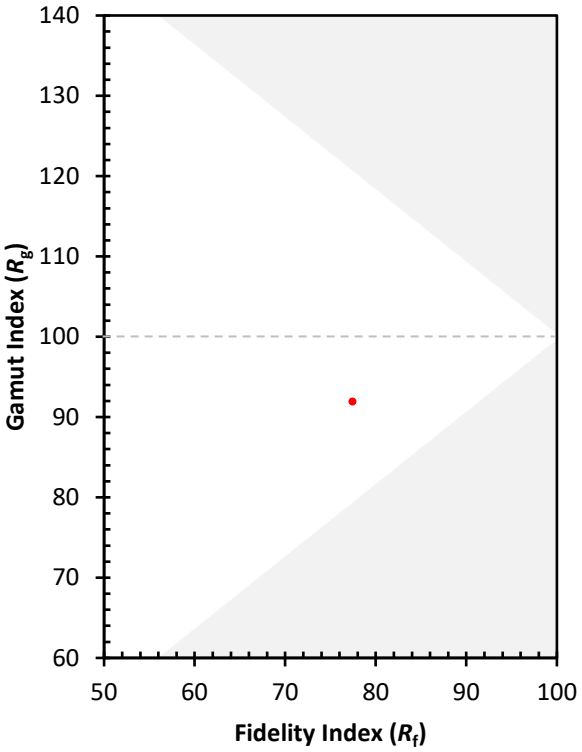
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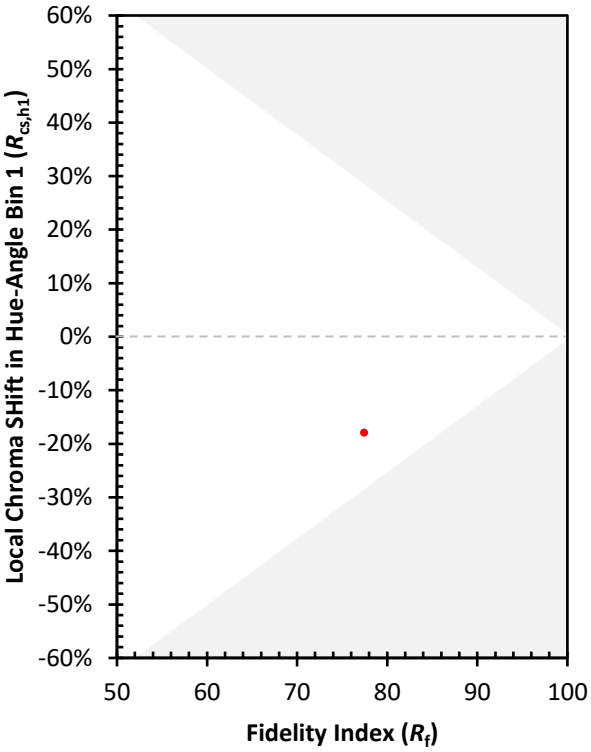


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Measure Comparisons





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