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: P981438

Luminaire Tested: **FFX-CLB-50-740-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981438
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8249.1 lumens
Efficiency:	N/A
Efficacy:	163.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U5 - G3

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

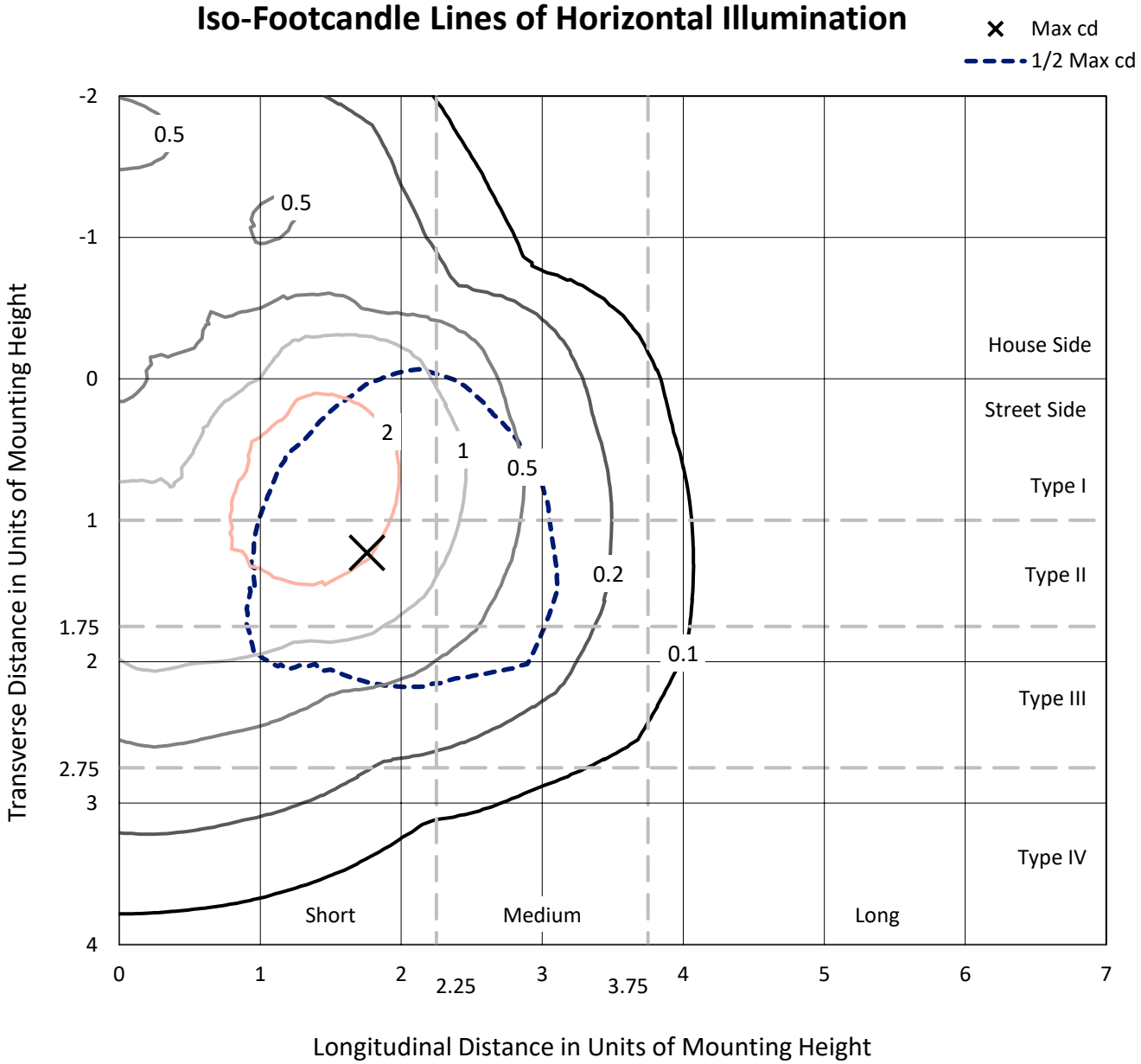


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Iso-Footcandle Lines of Horizontal Illumination



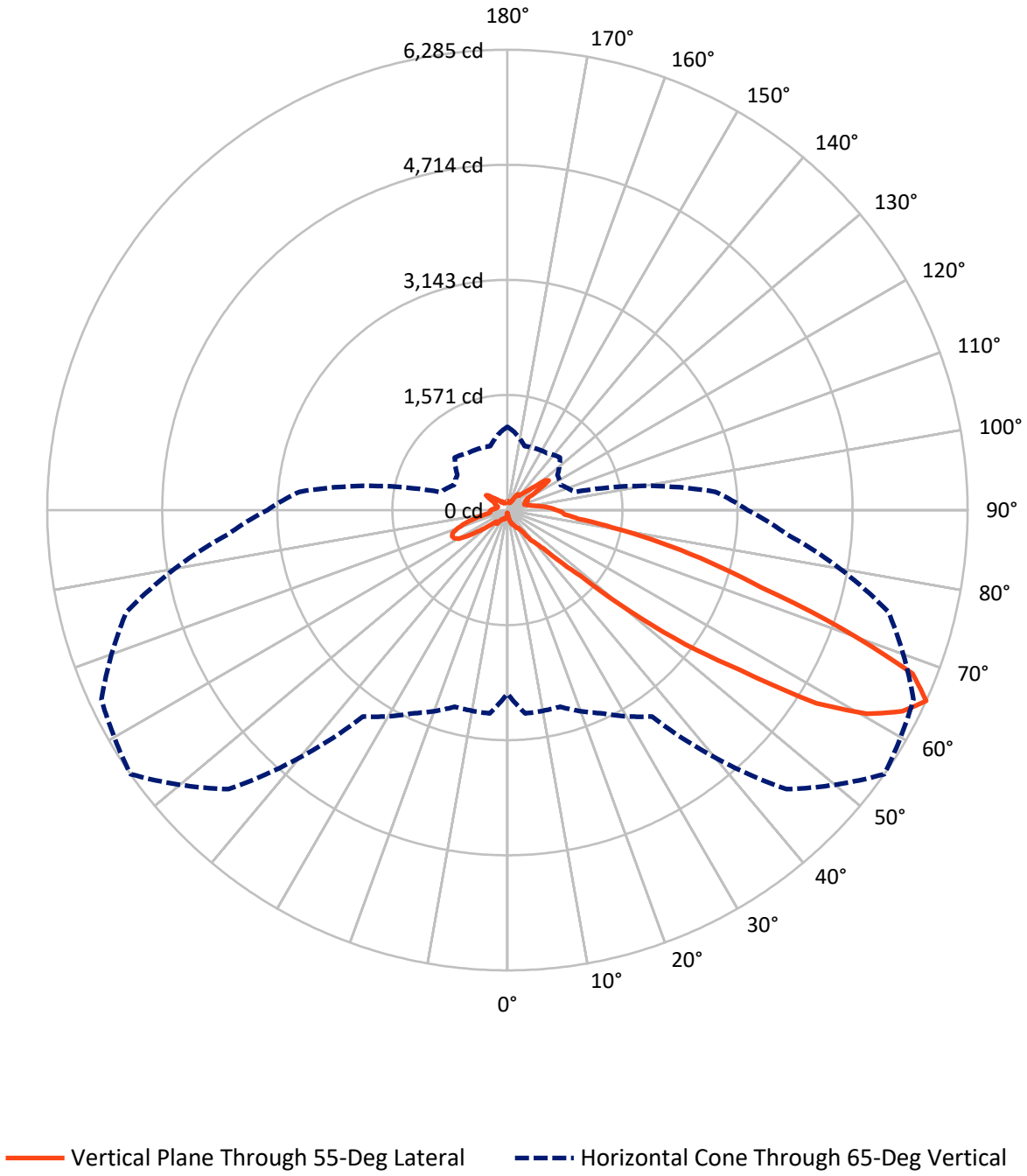
Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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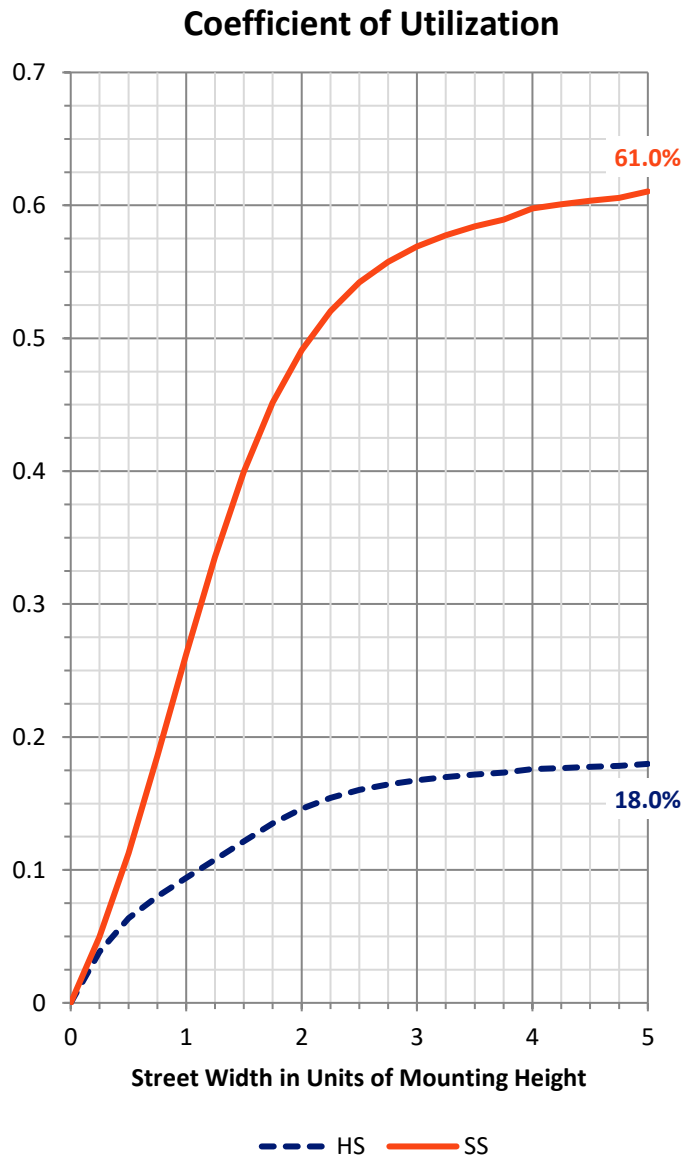
REPORT NUMBER: P981438
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1546.2	553.9	2100.2
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	5198.6	950.3	6148.9
	% Fixture	63.0	11.5	74.5
Total	Lumens	6744.9	1504.2	8249.1
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.1
10°-20°	41.9	0.5
20°-30°	86.1	1.0
30°-40°	180.4	2.2
40°-50°	476.2	5.8
50°-60°	1584.7	19.2
60°-70°	2556.3	31.0
70°-80°	1341.0	16.3
80°-90°	470.5	5.7
90°-100°	303.8	3.7
100°-110°	197.0	2.4
110°-120°	216.1	2.6
120°-130°	363.4	4.4
130°-140°	212.9	2.6
140°-150°	113.9	1.4
150°-160°	56.6	0.7
160°-170°	29.8	0.4
170°-180°	10.8	0.1
0°-90°	6744.9	81.8
0°-180°	8249.1	100.0



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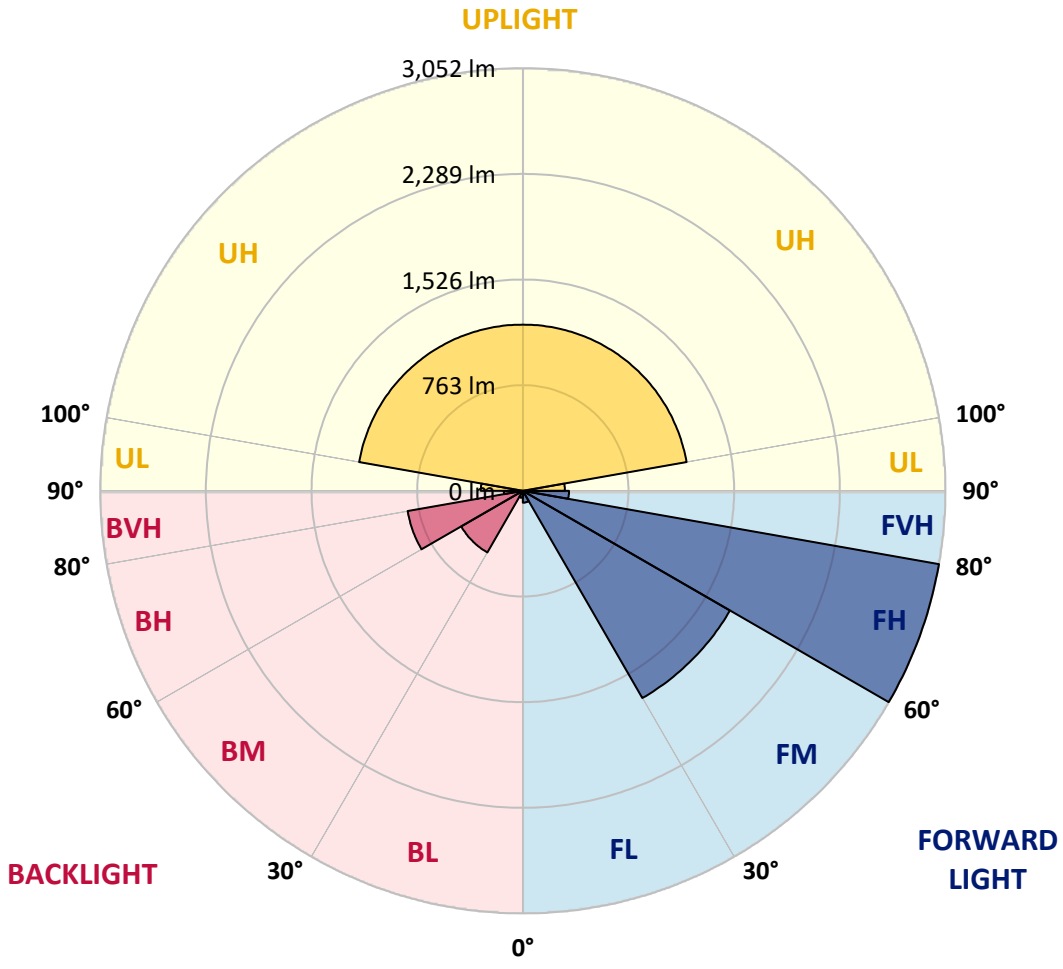
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	85.6	1.0			
FM	(30°-60°)	1727.6	20.9			
FH	(60°-80°)	3052.3	37.0			G2/5000
FVH	(80°-90°)	333.1	4.0			G3/500
BL	(0°-30°)	50.1	0.6	B0/110		
BM	(30°-60°)	513.8	6.2	B1/1000		
BH	(60°-80°)	844.9	10.2	B2/1000		G2/1000
BVH	(80°-90°)	137.4	1.7			G2/225
UL	(90°-100°)	303.8	3.7		U3/500	
UH	(100°-180°)	1200.5	14.6		U5	

BUG Rating: B2-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	46.7	46.7	46.7	46.7	46.7	46.7	*46.7*	46.7	46.7	46.7	46.7
2.5°	46.7	47.8	50.5	51.6	52.1	51.1	*48.9*	51.1	51.1	51.1	50.5
5°	67.9	67.9	67.9	69.5	70.1	71.2	*70.1*	67.4	65.2	63.0	62.5
7.5°	95.1	96.1	96.7	96.7	96.7	98.9	*101.0*	96.1	91.8	87.5	86.4
10°	136.3	133.6	130.9	132.0	129.8	125.5	*127.7*	123.8	114.1	110.8	110.8
12.5°	174.4	173.8	174.9	168.9	165.7	156.4	*157.5*	155.4	148.3	136.9	133.1
15°	195.6	197.2	196.6	198.8	193.9	180.9	*177.6*	178.7	172.2	161.3	155.9
17.5°	206.4	206.4	207.0	209.7	209.7	197.2	*191.7*	189.0	183.6	174.4	167.3
20°	211.8	211.8	211.3	215.1	222.7	215.6	*208.0*	203.7	198.8	184.1	173.3
22.5°	227.1	226.0	224.3	225.4	236.8	234.7	*228.7*	222.2	215.1	192.8	179.3
25°	242.8	243.4	238.5	240.1	251.5	254.8	*249.9*	243.4	235.2	201.5	187.9
27.5°	260.7	260.2	253.7	255.8	261.8	273.8	*267.8*	264.5	251.0	208.6	195.6
30°	277.0	274.3	267.8	273.2	273.2	292.2	*286.8*	288.4	271.6	221.6	207.5
32.5°	289.0	288.4	284.6	291.7	287.9	312.3	*310.7*	324.3	299.3	247.2	234.1
35°	316.1	316.7	332.4	346.0	339.5	375.3	*383.0*	400.3	369.9	310.7	296.6
37.5°	511.7	505.2	483.4	458.5	461.7	528.5	*519.3*	528.5	481.8	396.5	374.3
40°	538.9	540.5	515.5	496.5	493.8	579.0	*593.2*	668.1	570.4	475.3	431.3
42.5°	524.7	530.2	598.6	623.0	601.3	710.0	*714.3*	858.8	665.4	586.1	528.0
45°	665.4	666.5	680.6	696.4	699.1	969.6	*984.8*	1144.5	846.3	738.2	639.9
47.5°	757.2	765.9	785.5	893.0	950.1	1239.6	*1341.2*	1594.8	1127.1	1006.5	812.6
50°	1070.6	1094.5	1191.2	1283.6	1372.7	1838.2	*2179.9*	2482.4	1693.1	1475.3	1180.9
52.5°	1304.8	1390.6	1498.7	1721.4	1815.4	2512.3	*3049.0*	3236.4	2371.6	1999.5	1609.0
55°	1507.9	1665.4	1782.2	2146.7	2325.4	3275.5	*3848.0*	3875.2	3182.6	2440.6	2063.1
57.5°	1926.2	2156.0	2232.0	2543.8	2792.6	4184.3	*4979.5*	4845.9	4010.4	2943.0	2547.6
60°	2320.0	2584.5	2556.3	2843.6	3172.8	4965.9	*5649.3*	5581.4	4786.1	3418.9	2971.3
62.5°	2448.2	2716.5	2692.6	2994.6	3437.4	5330.4	*6051.2*	5938.8	5244.0	3716.6	3184.2
65°	*2504.1*	*2787.1*	*2780.6*	*3063.1*	*3440.6*	*5388.5*	*6285.3*	*6118.0*	*5388.0*	*3836.6*	*3277.7*
67.5°	2456.3	2725.8	2723.0	2983.2	3189.7	4967.0	*5968.7*	5722.0	5033.3	3554.1	3076.1
70°	2119.6	2307.0	2295.6	2455.3	2563.3	3948.0	*4843.7*	4657.4	4062.0	2920.8	2548.1
72.5°	1728.5	1783.9	1807.8	1899.0	1927.8	2889.3	*3632.4*	3484.1	3028.9	2187.5	1932.2
75°	1380.3	1383.0	1408.0	1440.0	1430.2	2125.5	*2861.0*	2769.2	2233.6	1631.8	1465.5
77.5°	913.7	906.6	1016.3	1029.4	966.9	1354.2	*2136.4*	2071.8	1598.6	1189.1	1071.7
80°	524.2	526.4	601.3	648.6	623.6	860.4	*1463.9*	1449.8	1097.8	832.2	736.0
82.5°	391.1	409.6	449.8	474.8	465.0	646.9	*974.0*	1000.6	780.0	598.6	547.0
85°	435.6	446.0	450.3	451.9	440.0	605.1	*786.6*	784.9	655.6	502.5	485.1
87.5°	424.2	432.9	436.7	438.9	427.0	578.5	*743.1*	732.2	629.0	482.9	457.4
90°	356.9	377.0	376.4	395.4	381.9	508.4	*651.8*	644.8	570.9	444.9	415.0
92.5°	299.3	310.7	318.3	344.4	332.4	447.6	*586.1*	569.8	511.1	404.7	372.6
95°	279.7	290.1	296.0	310.7	296.0	386.8	*493.8*	479.1	424.2	337.3	306.4
97.5°	235.7	239.0	244.4	254.2	244.4	313.4	*399.8*	385.7	340.6	275.4	253.7
100°	199.9	203.2	210.2	217.3	212.4	268.3	*334.6*	327.0	292.8	239.6	224.9
102.5°	189.0	191.2	200.4	204.8	198.8	246.6	*295.5*	295.5	265.1	221.1	209.1
105°	180.3	183.1	190.1	191.7	187.4	227.1	*272.7*	270.0	246.1	207.0	195.6
107.5°	171.7	174.9	180.9	178.2	176.0	209.1	*245.0*	249.3	228.7	196.6	189.0
110°	180.9	182.0	186.9	182.5	186.3	208.0	*246.1*	247.2	241.2	214.6	206.4

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REPORT NUMBER: P981438
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	246.1	240.1	250.4	234.1	246.6	261.8	*285.7*	294.4	287.4	256.9	249.9
115°	269.4	273.8	284.6	268.3	276.5	295.0	*306.4*	308.0	299.8	280.3	277.6
117.5°	210.2	231.9	220.5	230.3	233.6	259.1	*285.2*	292.8	285.2	258.0	274.9
120°	268.9	286.3	247.2	235.2	251.5	296.0	*319.9*	326.5	305.8	306.4	316.7
122.5°	446.0	455.7	480.2	492.7	473.7	500.8	*509.0*	515.0	483.4	446.5	428.0
125°	676.8	669.8	666.5	663.2	658.4	687.1	*692.6*	677.4	645.9	594.3	565.5
127.5°	612.2	618.2	627.4	626.3	622.0	644.2	*657.8*	648.6	639.9	590.5	573.6
130°	440.5	443.2	459.5	488.9	485.6	503.5	*505.2*	514.4	529.1	507.3	490.0
132.5°	365.0	367.7	392.2	405.2	406.3	406.9	*399.3*	420.4	435.6	413.9	399.3
135°	318.3	318.3	323.7	318.9	320.5	334.6	*341.1*	360.1	363.9	353.6	339.0
137.5°	281.4	282.5	271.1	261.8	263.5	289.0	*303.6*	318.3	310.7	289.5	279.2
140°	245.0	239.0	223.3	220.5	232.5	256.9	*265.6*	275.9	278.1	251.0	237.4
142.5°	180.3	178.2	185.2	199.9	206.4	247.2	*240.6*	260.2	261.3	215.6	193.4
145°	201.5	201.0	200.4	203.2	218.4	277.6	*261.8*	286.8	298.8	229.2	187.4
147.5°	227.6	227.1	222.2	216.2	239.0	253.7	*239.6*	261.3	274.3	227.6	181.4
150°	176.0	177.1	174.4	172.7	197.7	195.0	*191.7*	197.7	203.2	188.5	165.1
152.5°	136.9	134.7	133.1	133.6	154.3	151.0	*151.0*	155.4	155.9	150.5	138.5
155°	123.3	122.8	121.7	123.8	136.3	133.1	*130.4*	129.3	126.6	124.9	123.3
157.5°	115.7	114.6	114.6	117.9	126.6	121.1	*120.0*	119.0	117.3	117.3	117.9
160°	108.1	107.6	107.6	112.4	115.2	110.3	*109.2*	108.6	108.1	109.2	110.3
162.5°	103.8	103.8	103.8	107.0	107.0	103.8	*102.7*	102.1	102.7	106.5	107.0
165°	102.1	101.6	102.1	103.8	103.2	101.0	*100.5*	100.5	102.1	105.4	105.9
167.5°	104.8	104.8	104.8	105.4	104.8	102.7	*102.1*	102.1	103.8	106.5	106.5
170°	109.2	108.6	108.6	108.6	108.1	105.9	*104.8*	105.4	105.9	107.6	107.6
172.5°	113.0	113.0	112.4	111.9	110.8	109.7	*108.6*	108.6	108.6	109.2	109.2
175°	117.3	117.3	117.3	116.8	116.8	115.2	*114.6*	114.1	113.5	113.0	112.4
177.5°	122.2	121.7	121.7	121.7	121.7	120.0	*119.0*	118.4	117.3	116.8	116.8
180°	120.0	120.0	120.0	120.0	120.0	120.0	*120.0*	120.0	120.0	120.0	120.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
2.5°	50.5	48.9	46.2	41.3	39.7	38.0	36.4	33.1	31.5	30.4
5°	61.9	59.8	59.2	56.5	52.7	49.4	48.9	47.8	47.3	45.6
7.5°	88.5	89.6	92.3	87.5	76.6	70.6	72.2	78.2	76.0	75.5
10°	111.4	118.4	123.8	111.4	91.8	79.3	79.9	91.8	92.9	95.1
12.5°	130.4	136.3	135.3	119.5	101.0	89.1	85.3	91.8	97.8	98.3
15°	151.0	140.7	136.9	123.8	110.8	101.6	99.9	101.6	101.6	100.5
17.5°	159.7	141.8	130.9	120.0	110.8	104.3	102.1	99.4	95.6	95.6
20°	161.9	146.1	133.6	122.2	113.0	105.9	99.9	96.7	95.6	95.6
22.5°	168.4	154.3	141.2	127.7	117.9	108.6	101.6	98.3	98.3	98.9
25°	177.6	164.6	148.3	134.2	123.8	114.1	104.8	99.9	99.4	99.9
27.5°	189.0	175.5	157.5	142.3	130.4	119.5	108.1	102.1	99.9	99.9
30°	202.1	186.3	166.2	149.4	136.3	126.6	112.4	104.3	101.6	100.5
32.5°	225.4	207.5	177.1	158.6	143.9	133.1	119.0	108.6	103.2	102.1
35°	283.0	255.3	215.6	182.0	159.7	140.7	123.8	111.4	104.3	103.2
37.5°	345.5	303.6	266.2	228.7	196.1	165.1	133.1	115.7	107.0	105.4
40°	384.6	329.7	296.6	240.6	236.3	210.8	163.5	127.7	112.4	110.3
42.5°	465.0	383.0	330.3	212.4	230.9	236.3	206.4	160.2	127.1	123.3
45°	560.0	450.3	370.5	227.1	237.9	231.4	211.3	185.8	158.6	151.0
47.5°	725.7	513.9	384.6	263.5	272.1	254.2	224.3	197.7	177.6	174.9
50°	1047.3	700.7	432.9	323.7	349.8	299.8	261.3	240.6	213.5	210.2
52.5°	1461.2	843.6	486.2	418.8	478.0	416.1	353.6	311.8	305.8	308.0
55°	1909.9	887.6	556.2	517.7	621.4	563.3	491.6	451.4	491.1	503.5
57.5°	2354.8	953.9	657.8	645.9	777.9	689.3	632.8	650.2	815.3	855.0
60°	2705.1	1010.3	743.6	769.2	932.7	836.5	812.6	838.2	1121.7	1227.1
62.5°	2842.6	984.8	788.2	821.3	1005.5	939.7	931.6	956.0	1195.0	1298.8
65°	*2852.9*	*945.7*	*805.6*	*835.4*	*1016.9*	*946.8*	*924.5*	*903.9*	*1070.1*	*1135.8*
67.5°	2639.9	867.5	784.4	815.3	966.3	873.5	827.3	780.6	865.9	902.3
70°	2128.2	769.2	718.1	736.0	812.6	726.8	663.8	631.7	662.2	659.4
72.5°	1612.2	677.4	645.3	627.4	663.8	594.3	524.7	493.8	520.9	513.9
75°	1231.4	604.6	574.7	515.0	550.3	456.3	379.7	358.5	371.5	366.7
77.5°	888.7	484.5	444.9	379.2	424.8	331.9	254.8	239.6	242.8	232.5
80°	639.9	361.2	322.7	275.9	312.3	237.4	189.0	185.8	187.4	176.5
82.5°	502.5	289.5	264.0	239.0	250.4	214.6	182.0	178.7	180.3	168.4
85°	468.2	283.5	256.9	240.6	244.4	211.3	176.5	175.5	178.2	165.1
87.5°	441.6	280.8	259.6	236.3	227.1	193.9	163.5	168.4	176.0	162.4
90°	389.5	261.8	243.4	222.2	212.4	182.0	163.5	170.6	170.0	160.2
92.5°	343.3	233.6	218.9	207.0	204.8	185.2	171.1	177.6	179.8	170.0
95°	281.4	197.2	190.1	186.3	189.6	170.6	158.6	161.9	159.7	154.3
97.5°	239.6	179.8	174.9	169.5	166.2	152.6	142.3	146.7	148.8	143.9
100°	216.7	171.1	167.3	161.3	160.8	151.6	146.1	154.8	161.3	158.6
102.5°	202.6	162.4	157.5	152.1	150.5	142.9	138.5	143.9	149.9	144.5
105°	192.3	154.3	146.7	141.8	139.1	133.6	128.2	130.4	136.9	134.2
107.5°	182.5	153.7	141.8	138.0	138.0	130.9	123.3	123.8	127.1	126.6
110°	197.7	170.6	148.8	143.4	141.8	139.6	134.2	128.7	124.4	124.4

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

Scaled Data Report

REPORT NUMBER: P981438
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	236.8	209.1	186.9	169.5	162.4	154.3	142.9	134.7	128.7	127.1
115°	254.2	224.3	203.2	184.1	167.8	152.1	142.3	136.3	133.1	136.3
117.5°	239.6	198.3	195.6	176.0	160.8	148.3	145.6	135.8	141.2	141.2
120°	269.4	230.3	224.3	196.1	174.9	159.2	157.5	155.9	149.9	147.2
122.5°	393.8	342.8	318.3	276.5	240.1	207.5	189.0	163.5	145.6	141.8
125°	535.0	467.7	409.0	353.6	298.8	240.6	191.7	153.7	135.3	132.5
127.5°	536.7	468.2	403.6	336.2	276.5	215.6	172.2	145.6	132.5	132.0
130°	472.0	412.3	341.1	274.3	226.0	185.8	154.3	132.5	123.3	120.6
132.5°	375.9	322.7	277.0	235.7	198.8	164.6	136.3	121.1	115.7	115.2
135°	316.1	270.0	237.9	207.5	178.7	148.3	122.2	114.6	111.9	110.8
137.5°	258.0	230.3	210.8	186.3	158.6	133.6	116.2	113.0	111.9	109.7
140°	223.8	205.3	184.1	157.0	135.8	115.2	105.9	108.6	111.4	110.8
142.5°	182.5	168.9	153.2	135.3	120.6	111.4	107.6	109.2	109.2	109.7
145°	173.3	155.4	146.7	135.8	126.0	119.0	109.7	106.5	105.9	105.9
147.5°	160.8	153.7	148.3	140.7	126.0	113.0	102.7	101.0	103.2	102.7
150°	150.5	145.6	139.1	127.1	112.4	103.8	98.3	98.9	102.7	103.2
152.5°	127.7	124.9	120.6	113.0	102.7	98.3	95.6	97.8	100.5	101.0
155°	113.5	111.9	110.8	105.9	99.4	96.7	95.6	97.2	99.9	100.5
157.5°	112.4	108.6	107.0	103.8	98.9	96.1	96.1	97.8	99.4	99.9
160°	109.2	104.3	103.8	100.5	99.4	97.8	98.9	99.4	101.0	100.5
162.5°	106.5	103.2	102.7	100.5	101.6	103.2	103.2	103.8	104.8	104.3
165°	105.4	102.7	102.1	102.1	105.4	108.1	108.6	108.1	108.1	108.1
167.5°	106.5	104.8	104.3	105.4	108.1	111.4	111.9	110.8	109.7	109.2
170°	108.1	107.6	108.1	108.6	110.3	112.4	112.4	111.4	111.4	111.4
172.5°	109.7	110.8	111.4	111.4	113.0	114.1	114.6	114.1	114.1	114.1
175°	113.0	113.5	113.5	114.1	115.7	116.8	117.9	117.9	117.9	117.9
177.5°	116.8	116.8	116.8	117.3	117.9	119.5	120.0	121.1	121.7	121.7
180°	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0

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

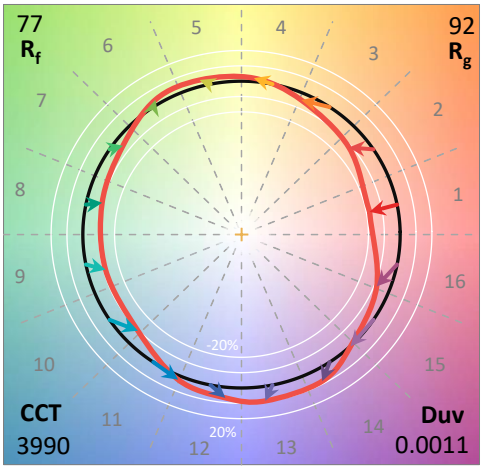
Test Information

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

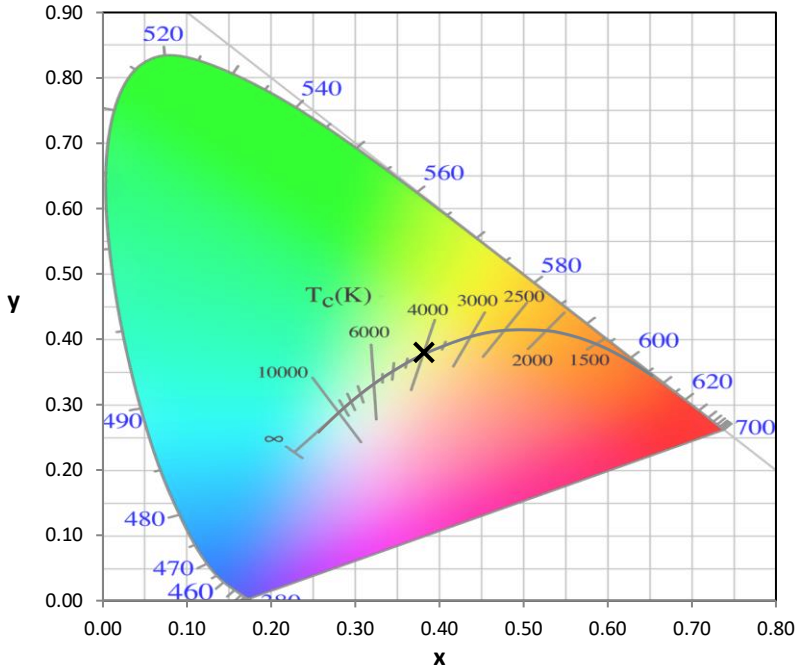
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

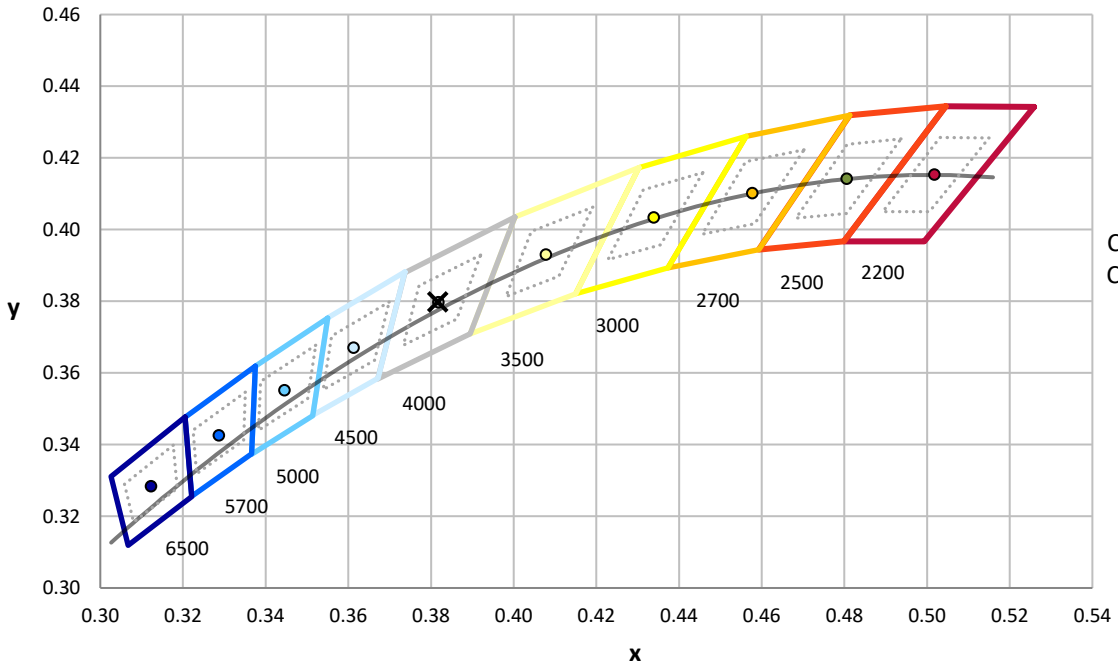
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

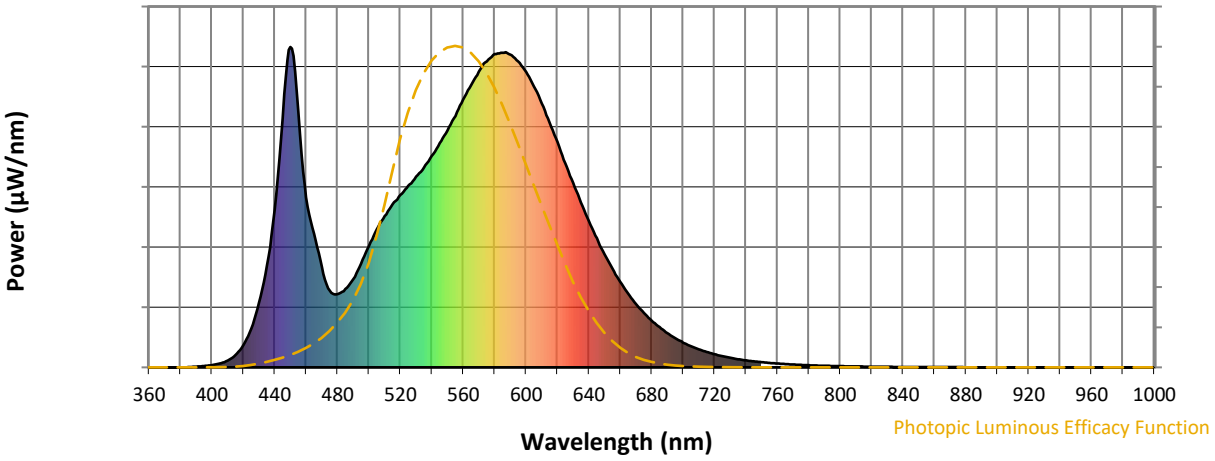


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

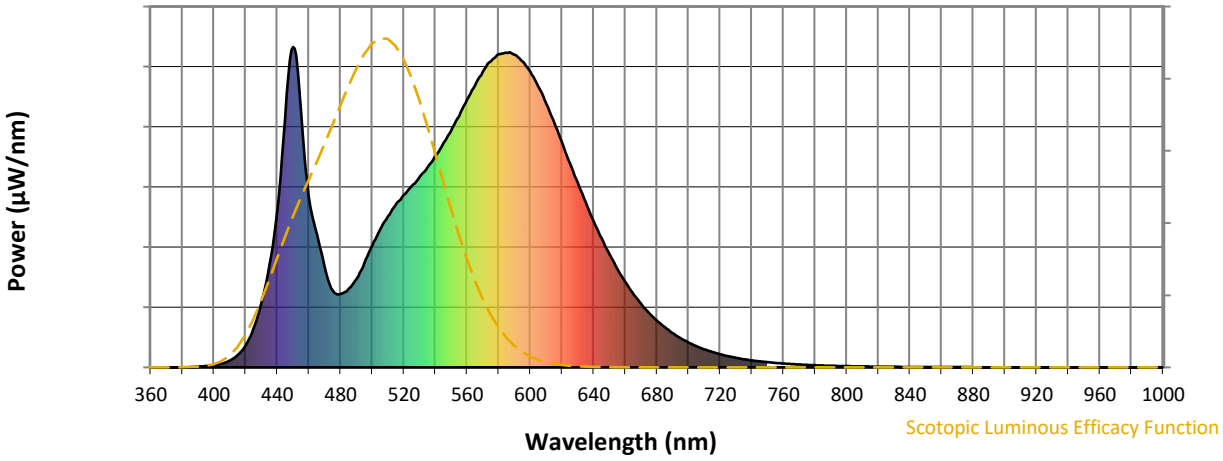


Photopic Lumens: NR

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

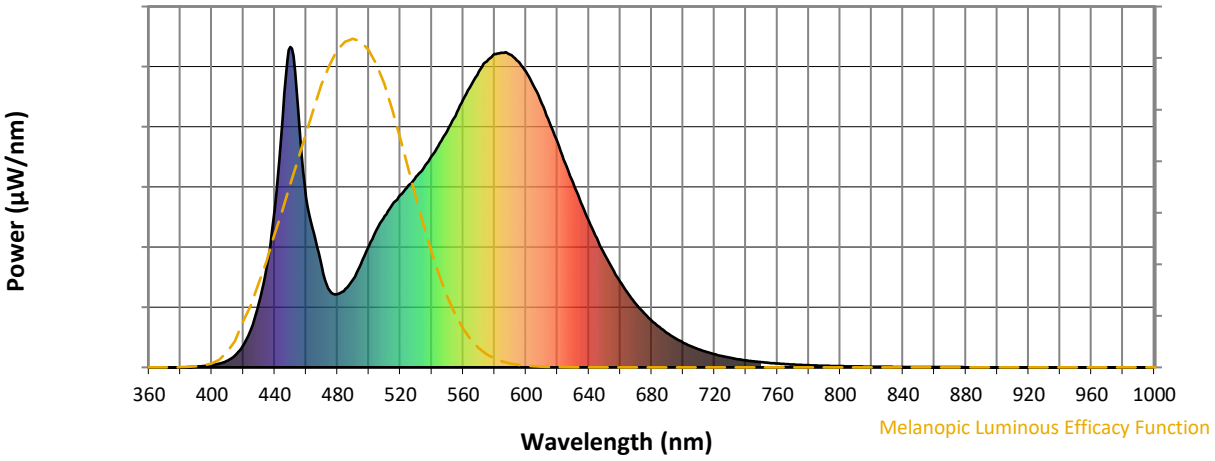


Scotopic Lumens: NR **S/P: 1.59**

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			

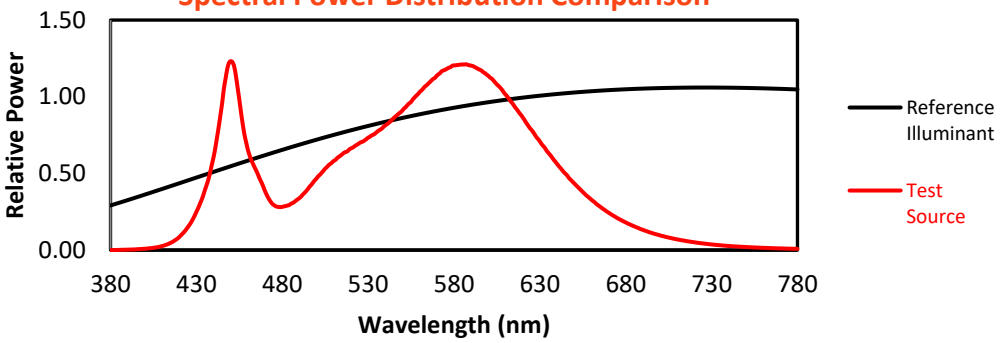
REPORT NUMBER: SP1-2501-332-1

TM-30-18

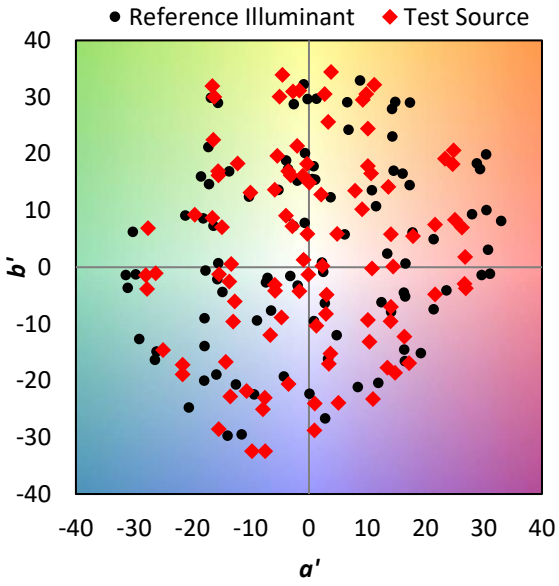
Summary

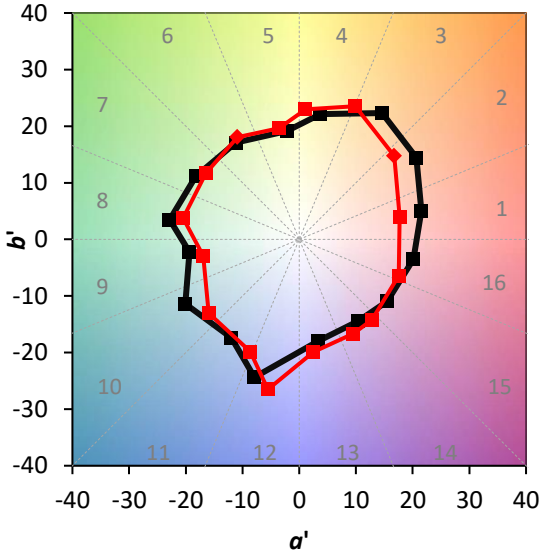
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

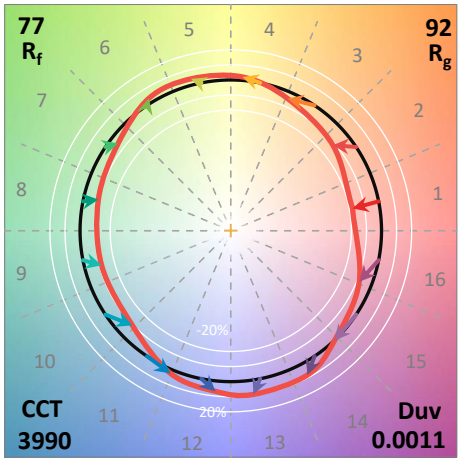
Spectral Power Distribution Comparison

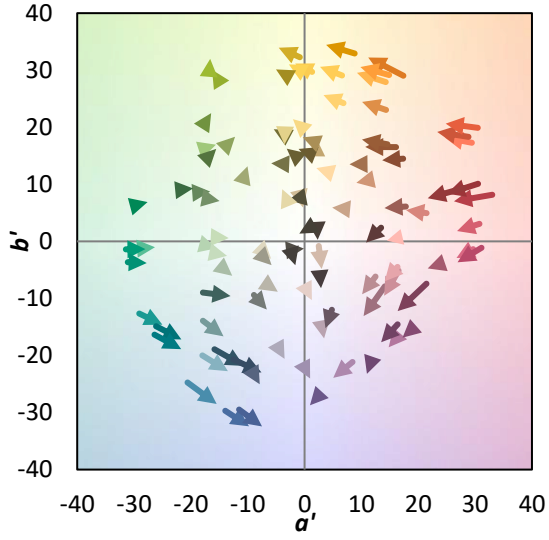


Color Vector Graphics







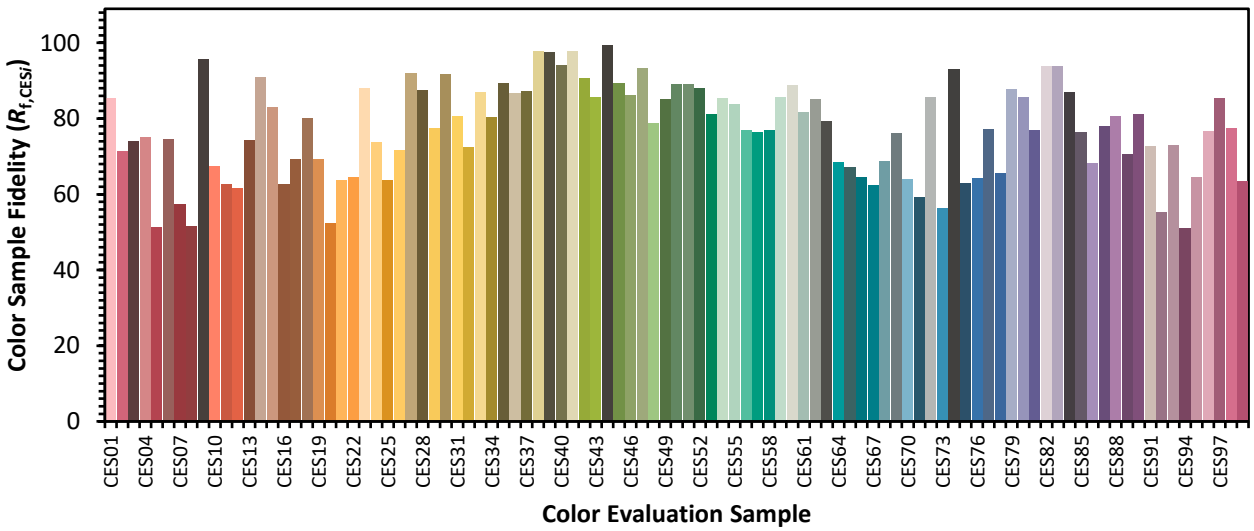


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

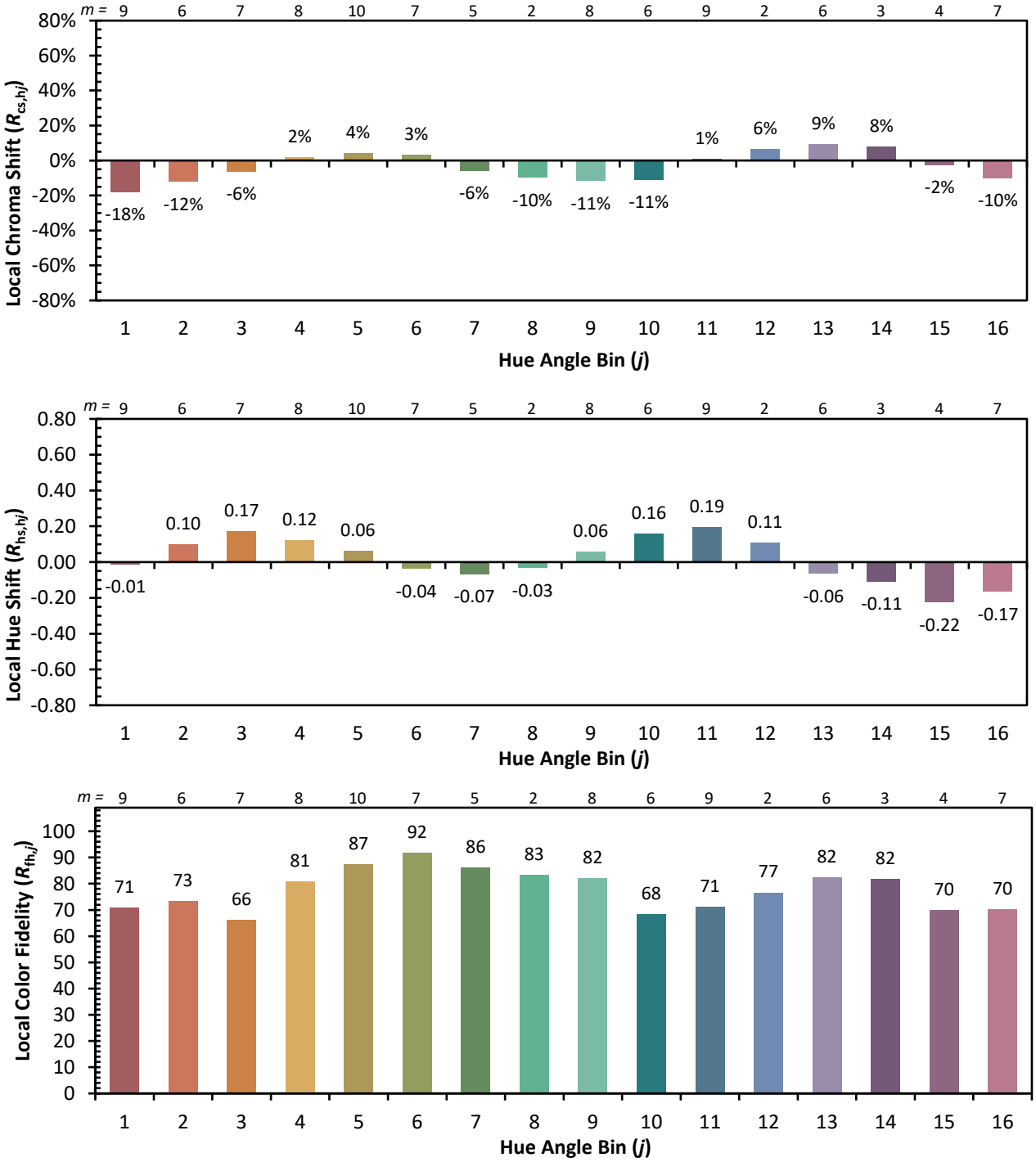
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CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 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	



REPORT NUMBER: SP1-2501-332-1

TM-30-18

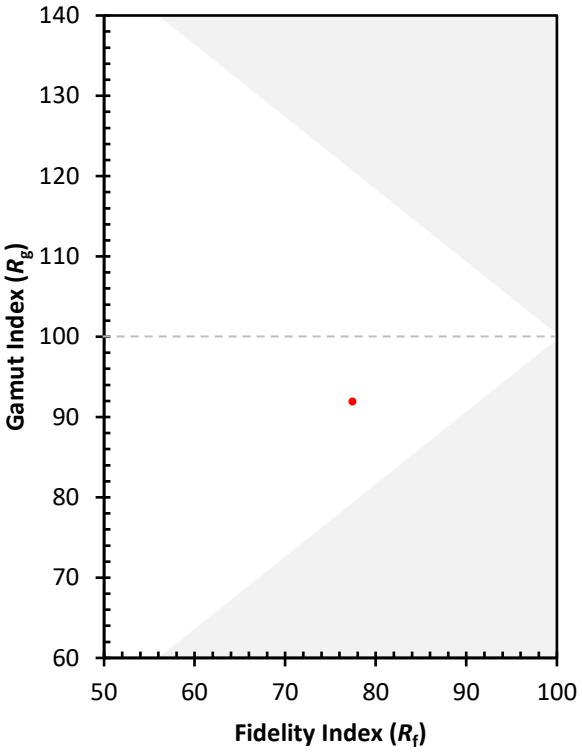
Color Rendition by Hue-Angle Bin

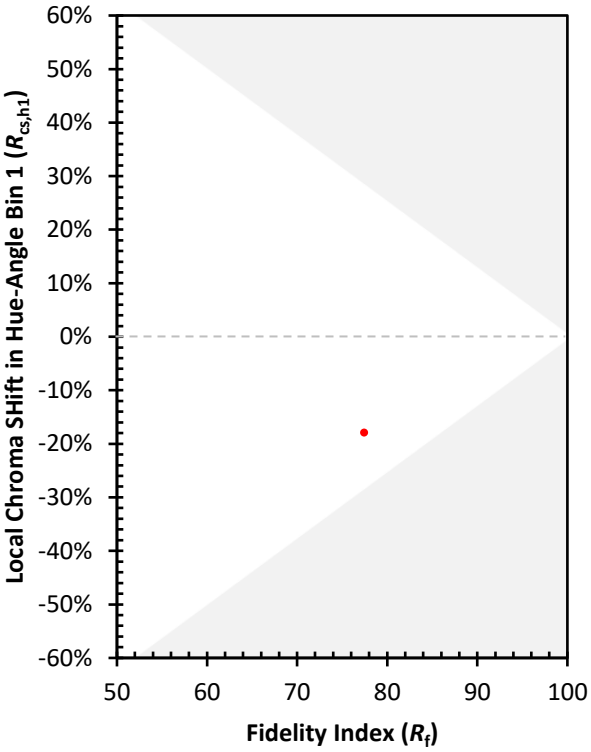


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Measure Comparisons





(END OF REPORT)