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: P1046617

Luminaire Tested: **FFX-CLB-70-740-U-FR-T3-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046617
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-740-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10320.8 lumens
Efficiency:	N/A
Efficacy:	145.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G4

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

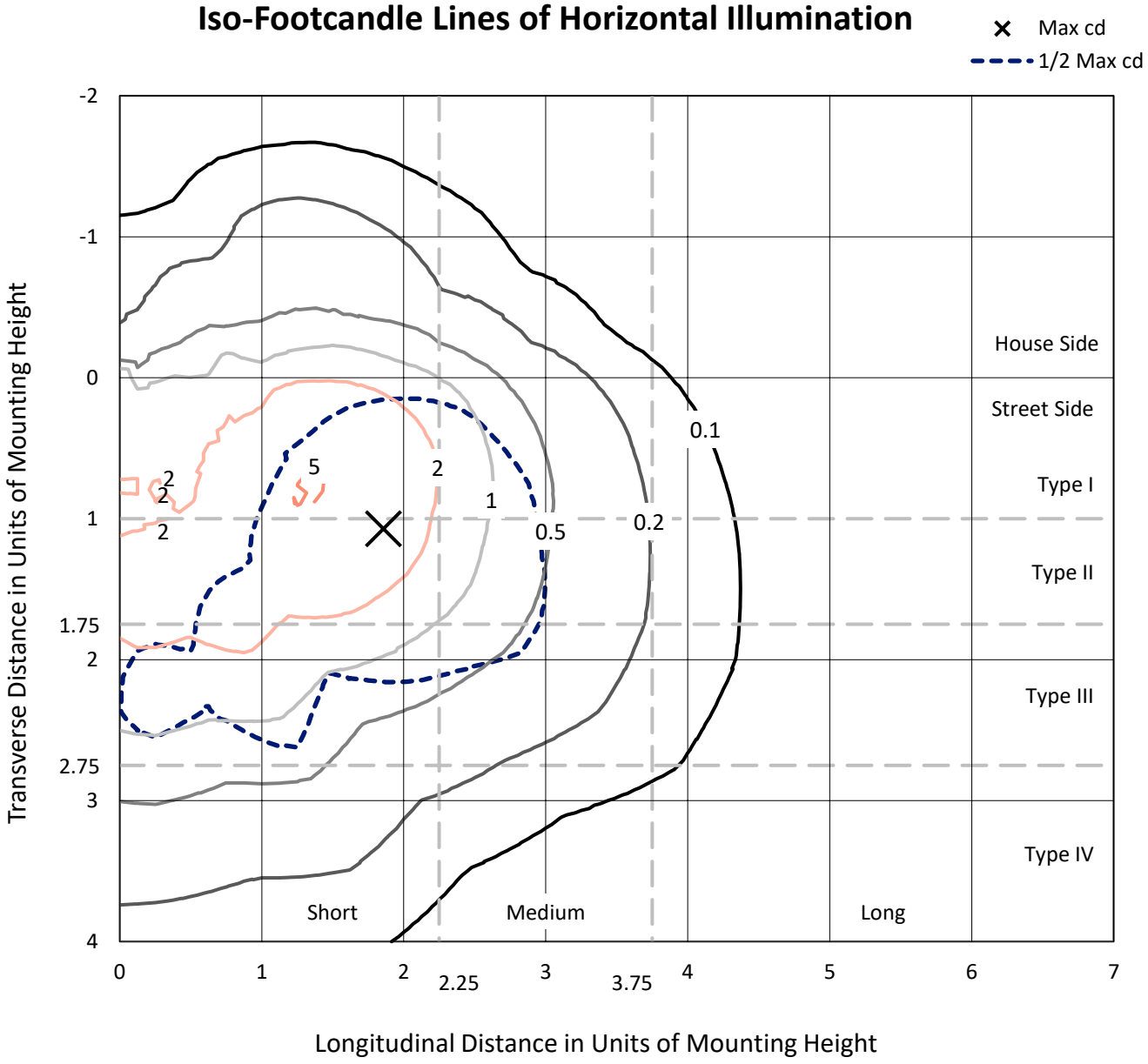


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Iso-Footcandle Lines of Horizontal Illumination



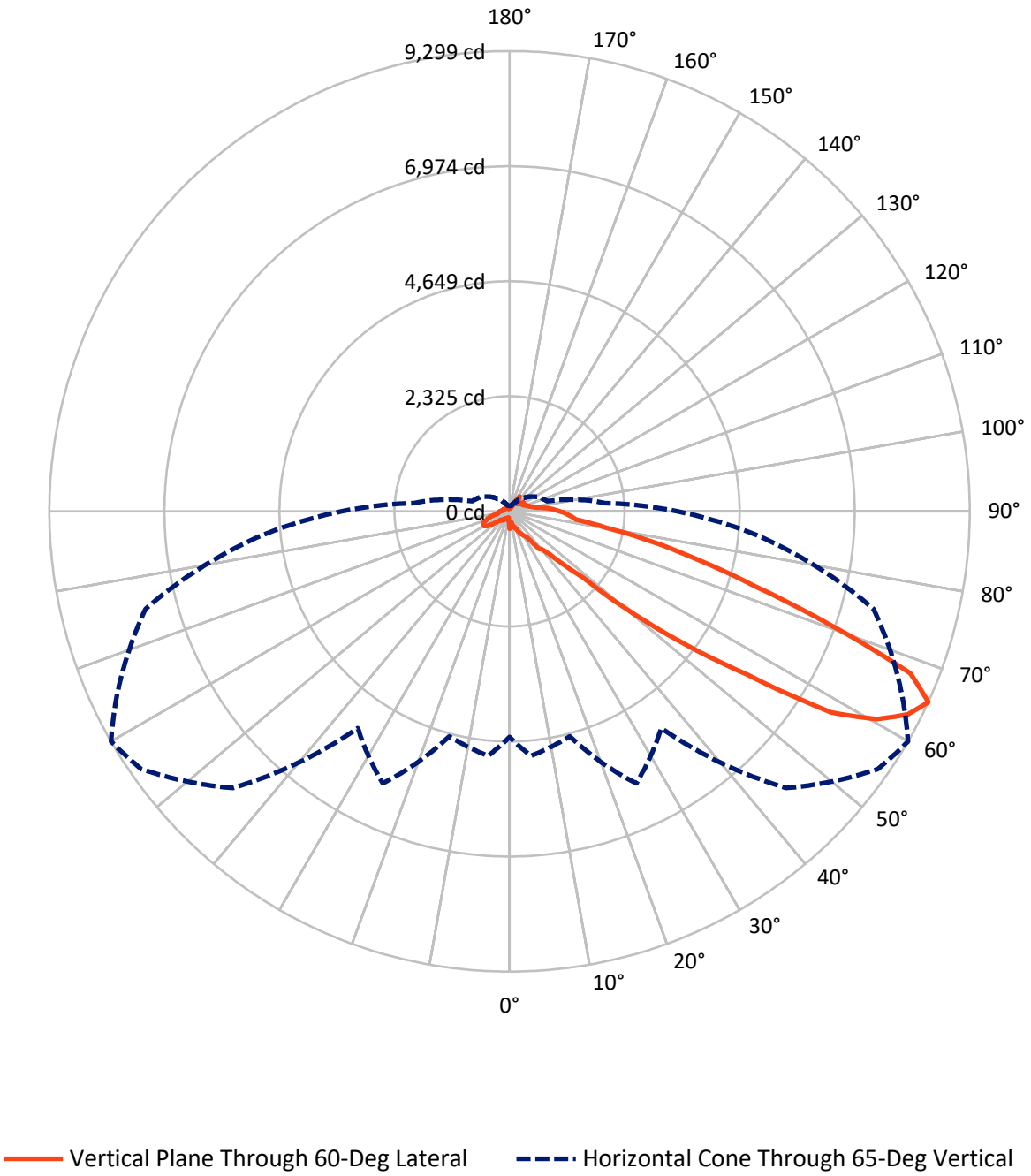
Based on 15 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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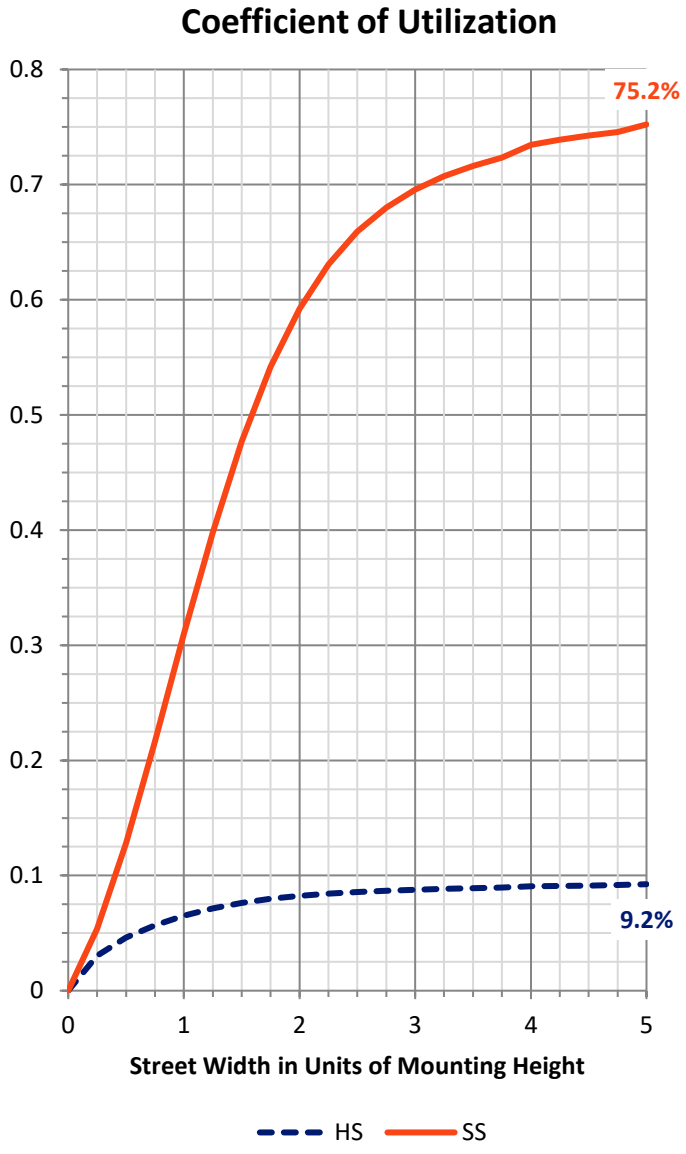
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1000.7	323.0	1323.7
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	8042.5	954.6	8997.1
	% Fixture	77.9	9.2	87.2
Total	Lumens	9043.2	1277.6	10320.8
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.2
10°-20°	66.1	0.6
20°-30°	141.3	1.4
30°-40°	289.9	2.8
40°-50°	679.2	6.6
50°-60°	2124.5	20.6
60°-70°	3326.5	32.2
70°-80°	1759.8	17.1
80°-90°	637.2	6.2
90°-100°	384.2	3.7
100°-110°	240.7	2.3
110°-120°	194.5	1.9
120°-130°	162.3	1.6
130°-140°	118.2	1.1
140°-150°	108.6	1.1
150°-160°	45.2	0.4
160°-170°	18.0	0.2
170°-180°	5.8	0.1
0°-90°	9043.2	87.6
0°-180°	10320.8	100.0



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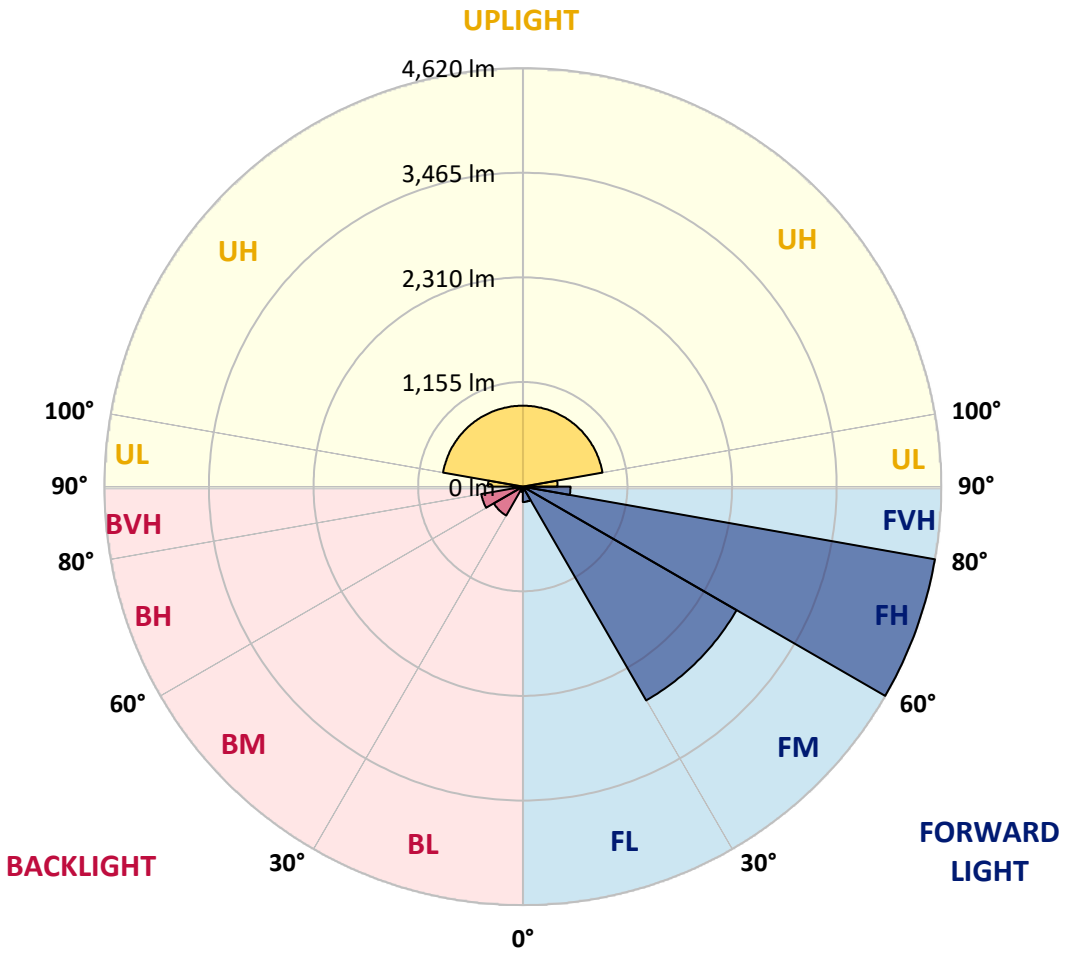
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	170.1	1.6			
FM	(30°-60°)	2725.5	26.4			
FH	(60°-80°)	4620.4	44.8			G2/5000
FVH	(80°-90°)	526.5	5.1			G4/750
BL	(0°-30°)	56.2	0.5	B0/110		
BM	(30°-60°)	368.0	3.6	B1/1000		
BH	(60°-80°)	465.8	4.5	B1/500		G1/500
BVH	(80°-90°)	110.7	1.1			G2/225
UL	(90°-100°)	384.2	3.7		U3/500	
UH	(100°-180°)	893.4	8.7		U4/1000	

BUG Rating: B1-U4-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3
2.5°	193.2	200.8	244.6	289.9	302.7	274.8	237.8	242.3	262.7	360.1	403.1
5°	226.5	228.7	224.9	230.2	261.9	301.9	278.5	251.4	215.1	155.5	154.0
7.5°	260.4	260.4	258.9	240.0	218.1	211.4	231.7	235.5	231.7	193.2	166.8
10°	283.8	283.8	283.1	284.6	286.1	278.5	245.3	232.5	218.9	202.3	194.7
12.5°	344.2	345.7	355.5	350.2	330.6	310.2	314.0	310.2	289.9	254.4	224.9
15°	421.2	424.2	425.7	406.1	374.4	336.7	312.5	306.5	302.7	282.3	252.9
17.5°	461.2	459.7	441.6	421.2	400.8	373.6	351.0	341.9	328.4	302.7	271.0
20°	456.7	456.7	438.6	434.0	435.5	418.9	390.3	378.9	363.8	339.7	295.9
22.5°	469.5	470.3	458.9	462.7	479.3	462.7	434.8	427.2	412.9	378.2	333.6
25°	518.6	518.6	505.7	500.5	514.8	508.8	492.9	483.9	463.5	421.2	342.7
27.5°	563.1	560.1	548.0	549.5	535.9	532.9	529.1	525.4	507.3	440.1	347.2
30°	597.8	597.8	587.3	594.1	565.4	569.9	556.3	566.9	543.5	465.7	364.6
32.5°	629.5	634.1	630.3	639.4	605.4	625.0	601.6	612.9	598.6	511.8	413.7
35°	702.8	708.0	725.4	748.0	706.5	726.9	689.9	705.8	691.4	616.0	508.0
37.5°	993.4	985.1	947.3	910.3	870.3	954.1	945.1	960.2	937.5	816.0	641.6
40°	999.4	994.9	987.3	963.9	888.4	971.5	975.3	1002.4	1070.4	875.6	693.7
42.5°	1025.1	1030.4	1120.2	1131.5	1074.9	1204.0	1168.5	1170.0	1402.5	1037.2	895.2
45°	1185.9	1185.9	1214.5	1228.9	1212.3	1582.9	1577.6	1532.3	1825.2	1293.8	1053.0
47.5°	1359.5	1364.8	1417.6	1559.5	1652.3	2003.4	2107.5	1998.8	2383.0	1697.6	1450.8
50°	1867.5	1878.0	2042.6	2167.2	2341.5	2932.6	3445.1	3279.8	3882.9	2589.9	2186.0
52.5°	2235.1	2366.4	2457.0	2925.8	2993.7	3901.8	4563.0	4506.4	4911.0	3584.7	2653.3
55°	2660.1	2864.6	2925.0	3651.9	3773.5	5034.8	5720.9	5821.3	5846.3	4634.0	3119.0
57.5°	3359.8	3676.8	3688.2	4456.6	4477.7	6346.7	7439.0	7660.1	7408.0	5855.3	3853.5
60°	3936.5	4307.9	4183.3	5229.5	5019.7	7408.0	8274.6	8525.2	8057.2	6899.3	4366.8
62.5°	4293.5	4652.1	4488.3	5773.0	5345.8	7863.2	8773.5	9030.9	8516.1	7454.1	4761.5
65°	4560.0	4957.8	4705.7	6062.9	5345.0	7904.0	9081.5	9298.9	8747.9	7613.3	4877.8
67.5°	4565.3	4922.3	4607.6	5959.5	4989.5	7258.6	8600.7	8738.1	8126.6	7048.0	4532.1
70°	3990.8	4247.5	3898.0	5029.5	4024.8	5508.8	6716.6	6879.6	6264.4	5418.3	3511.5
72.5°	3339.4	3439.8	3093.3	4022.6	3152.2	4169.0	5134.4	5195.6	4870.2	4058.8	2714.4
75°	2622.3	2583.8	2404.2	2999.0	2396.6	2953.7	4032.4	3973.5	3794.6	2986.9	2071.3
77.5°	1749.7	1678.0	1687.1	2057.7	1674.2	1954.3	2936.3	2938.6	2875.9	2214.7	1477.2
80°	1067.3	1069.6	1040.2	1305.1	1105.1	1299.1	2023.7	1957.3	1958.8	1460.6	1034.1
82.5°	834.9	848.4	811.5	940.5	870.3	1033.4	1322.5	1359.5	1319.5	1072.6	761.6
85°	819.8	831.8	793.3	873.4	827.3	987.3	1244.0	1241.0	1219.8	994.9	720.1
87.5°	751.1	765.4	736.7	792.6	757.1	914.1	1145.1	1130.0	1109.6	936.0	686.9
90°	634.1	660.5	640.9	710.3	661.2	786.5	995.6	989.6	979.0	827.3	611.4
92.5°	576.7	582.0	567.6	630.3	575.9	689.2	883.9	865.0	841.6	717.9	520.8
95°	516.3	514.0	500.5	551.0	502.7	576.7	751.1	722.4	710.3	606.1	434.8
97.5°	413.7	414.4	407.6	442.3	407.6	460.5	563.9	553.3	529.1	452.9	332.9
100°	362.3	364.6	360.1	387.2	357.8	391.8	469.5	467.2	447.6	386.5	290.6
102.5°	342.7	343.5	349.5	366.1	338.2	363.1	428.0	428.8	415.9	360.1	273.3
105°	329.1	328.4	332.9	346.5	322.3	340.4	400.1	400.1	382.0	339.7	258.9
107.5°	318.5	317.0	324.6	335.9	319.3	324.6	370.6	373.6	356.3	316.3	246.1
110°	306.5	305.7	318.5	326.8	311.0	311.7	351.8	349.5	333.6	308.0	242.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	311.0	315.5	329.9	306.5	283.1	284.6	315.5	*319.3*	308.0	281.6	230.2
115°	307.2	311.7	330.6	297.4	262.7	271.7	297.4	*300.4*	283.8	261.9	216.6
117.5°	293.6	295.1	306.5	298.2	261.9	272.5	285.3	*290.6*	278.5	261.9	218.9
120°	347.2	335.9	335.9	323.1	282.3	301.2	325.3	*329.9*	318.5	287.6	218.1
122.5°	319.3	315.5	316.3	299.7	279.3	295.1	323.8	*331.4*	321.6	290.6	218.1
125°	251.4	252.1	248.3	253.6	245.3	250.6	265.7	*277.8*	268.7	252.1	207.6
127.5°	228.7	228.0	223.4	246.1	220.4	231.0	245.3	*252.1*	243.1	224.2	188.0
130°	222.7	222.7	235.5	258.9	243.8	239.3	234.0	*240.8*	239.3	227.2	188.0
132.5°	208.3	209.1	228.0	258.2	252.1	231.0	212.1	*215.9*	222.7	225.7	198.5
135°	208.3	206.1	200.0	206.8	203.1	208.3	203.1	*208.3*	209.8	208.3	173.6
137.5°	221.9	220.4	205.3	196.3	197.0	213.6	214.4	*216.6*	214.4	202.3	168.3
140°	217.4	212.1	201.5	197.8	198.5	215.9	222.7	*224.2*	221.9	198.5	158.5
142.5°	209.8	209.8	212.9	217.4	224.2	305.0	283.8	*303.4*	304.2	280.0	163.0
145°	301.2	304.2	295.1	285.3	309.5	366.9	345.0	*366.1*	380.4	354.0	224.9
147.5°	271.7	276.3	271.0	262.7	294.4	295.1	281.6	*283.8*	287.6	293.6	227.2
150°	192.5	187.2	195.5	189.5	221.2	219.7	200.8	*205.3*	213.6	214.4	181.2
152.5°	142.7	140.4	138.9	138.1	159.3	146.4	139.6	*137.4*	138.9	138.1	129.8
155°	126.1	126.1	125.3	129.1	140.4	131.3	124.5	*125.3*	121.5	119.3	114.7
157.5°	98.1	95.9	98.1	104.9	109.5	101.1	98.9	*97.4*	96.6	92.8	94.4
160°	80.8	80.8	82.3	87.6	90.6	84.5	80.0	*78.5*	78.5	77.0	82.3
162.5°	68.7	68.7	70.2	71.7	73.2	70.2	68.7	*68.7*	67.9	67.9	73.2
165°	57.4	57.4	58.1	61.1	61.9	60.4	59.6	*60.4*	60.4	63.4	67.9
167.5°	52.8	52.8	53.6	55.1	55.9	55.1	57.4	*59.6*	61.9	64.9	66.4
170°	50.6	50.6	51.3	52.1	53.6	55.1	59.6	*61.1*	61.9	61.1	61.1
172.5°	52.1	52.1	52.1	53.6	55.1	58.9	62.7	*62.7*	61.1	59.6	59.6
175°	52.8	52.1	52.8	54.3	56.6	58.9	60.4	*61.9*	61.9	61.1	61.1
177.5°	52.1	52.1	52.8	53.6	53.6	53.6	54.3	*55.1*	55.1	55.9	56.6
180°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	*51.3*	51.3	51.3	51.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3	353.3
2.5°	394.8	372.9	276.3	183.4	224.9	328.4	382.7	358.5	267.2	154.0	130.6
5°	161.5	181.2	211.4	202.3	181.9	149.5	112.5	111.7	154.7	188.0	191.0
7.5°	155.5	142.7	135.1	149.5	139.6	96.6	81.5	67.9	72.5	106.4	101.9
10°	191.7	187.2	174.4	142.7	104.9	86.8	81.5	83.0	89.1	80.0	79.3
12.5°	213.6	202.3	174.4	165.3	140.4	99.6	82.3	76.2	81.5	101.9	110.2
15°	234.0	217.4	182.7	153.2	126.1	103.4	88.3	77.0	68.7	59.6	58.9
17.5°	252.1	231.0	192.5	159.3	125.3	103.4	85.3	67.2	58.1	55.1	55.1
20°	274.0	254.4	205.3	166.1	126.1	101.1	82.3	66.4	58.1	55.1	55.1
22.5°	303.4	271.0	218.9	169.1	127.6	100.4	80.8	67.9	60.4	55.9	55.9
25°	311.7	286.8	228.0	178.9	133.6	104.2	84.5	70.2	61.9	58.1	57.4
27.5°	317.8	298.9	245.3	187.2	140.4	111.7	90.6	73.2	63.4	59.6	58.9
30°	341.2	324.6	264.2	199.3	149.5	119.3	95.9	77.7	66.4	60.4	58.9
32.5°	391.0	367.6	292.1	211.4	160.8	127.6	102.7	82.3	69.4	61.9	60.4
35°	486.1	467.2	366.1	236.3	172.9	138.1	111.0	88.3	73.2	64.2	63.4
37.5°	596.3	566.9	444.6	274.8	181.2	147.2	119.3	94.4	77.0	67.9	66.4
40°	615.2	531.4	394.0	250.6	182.7	151.7	126.8	101.1	81.5	71.0	68.7
42.5°	771.4	652.2	456.7	258.9	186.4	151.7	128.3	105.7	86.1	73.2	71.7
45°	816.0	649.9	454.4	289.1	204.6	156.3	129.1	107.9	89.8	77.0	74.7
47.5°	1040.2	797.1	461.2	307.2	223.4	172.1	134.4	109.5	90.6	79.3	78.5
50°	1487.0	1065.8	554.8	370.6	268.0	200.8	151.0	114.7	92.1	81.5	80.8
52.5°	1836.5	1265.9	595.6	443.8	341.2	255.1	180.4	128.3	95.1	82.3	80.8
55°	2183.0	1509.7	671.1	523.9	406.1	307.2	224.2	150.2	102.7	83.8	82.3
57.5°	2711.4	1812.4	764.7	602.4	481.6	356.3	250.6	169.8	111.7	85.3	83.0
60°	3032.2	1919.6	774.5	642.4	524.6	391.0	259.7	177.4	123.0	91.3	87.6
62.5°	3320.6	2016.2	781.3	660.5	532.2	394.8	260.4	171.3	125.3	100.4	95.9
65°	*3395.3*	*1937.7*	*788.1*	*666.5*	*518.6*	*372.9*	*250.6*	*165.3*	*119.3*	*108.7*	*107.9*
67.5°	3226.2	1737.6	741.3	643.9	482.3	335.1	225.7	157.0	116.2	105.7	107.9
70°	2513.6	1379.9	679.4	593.3	416.7	283.1	200.8	146.4	114.7	100.4	98.1
72.5°	1980.7	1173.8	686.2	565.4	351.8	250.6	177.4	133.6	108.7	98.1	96.6
75°	1542.9	983.6	660.5	486.9	285.3	213.6	155.5	119.3	101.1	94.4	93.6
77.5°	1131.5	780.5	545.0	375.2	235.5	178.1	135.9	109.5	95.9	89.8	89.1
80°	742.0	551.8	379.7	299.7	203.1	160.8	123.8	102.7	92.1	86.8	86.1
82.5°	631.0	489.9	337.4	275.5	188.0	154.7	121.5	100.4	91.3	85.3	84.5
85°	608.4	502.0	345.0	285.3	178.9	147.9	117.8	98.9	89.1	83.8	83.0
87.5°	571.4	454.4	333.6	255.9	165.3	135.1	110.2	95.1	85.3	80.8	79.3
90°	508.8	388.7	286.8	219.7	157.0	126.8	104.2	90.6	83.0	78.5	77.0
92.5°	410.6	295.1	225.7	194.0	153.2	126.1	103.4	90.6	83.0	78.5	77.0
95°	345.0	252.9	202.3	177.4	142.7	119.3	98.9	87.6	80.8	76.2	76.2
97.5°	273.3	211.4	180.4	159.3	128.3	108.7	93.6	83.8	77.7	73.2	73.2
100°	242.3	196.3	171.3	149.5	121.5	102.7	91.3	81.5	76.2	71.0	71.0
102.5°	230.2	190.2	169.1	141.9	116.2	98.9	87.6	78.5	74.0	68.7	68.7
105°	222.7	188.0	167.6	138.1	111.0	94.4	83.8	74.7	71.0	67.2	66.4
107.5°	215.1	184.9	169.8	135.9	106.4	91.3	83.8	74.0	69.4	66.4	66.4
110°	211.4	186.4	169.1	133.6	104.9	90.6	83.0	74.7	71.0	67.9	67.2

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

Scaled Data Report

REPORT NUMBER: P1046617
CATALOG NUMBER: FFX-CLB-70-740-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	201.5	178.1	161.5	126.8	102.7	88.3	80.0	74.0	68.7	65.7	64.9
115°	191.7	163.8	147.9	120.8	97.4	85.3	77.7	71.7	66.4	64.2	64.2
117.5°	195.5	160.0	135.9	118.5	95.9	83.0	76.2	70.2	65.7	64.2	63.4
120°	193.2	168.3	152.5	126.8	95.1	80.8	74.7	68.7	64.9	64.2	64.2
122.5°	184.9	181.9	167.6	129.1	92.1	81.5	76.2	71.0	67.2	64.9	64.9
125°	178.1	176.6	156.3	116.2	94.4	84.5	80.0	74.7	72.5	70.2	69.4
127.5°	164.6	147.9	129.8	111.7	95.9	86.1	81.5	78.5	76.2	72.5	71.7
130°	165.3	151.7	133.6	112.5	92.1	84.5	82.3	79.3	75.5	69.4	68.7
132.5°	179.7	165.3	132.9	104.2	88.3	84.5	83.0	79.3	71.0	64.2	63.4
135°	149.5	139.6	117.8	99.6	89.8	87.6	86.8	78.5	66.4	61.9	61.1
137.5°	145.7	131.3	113.2	100.4	93.6	89.1	86.1	75.5	61.9	57.4	55.9
140°	137.4	123.8	111.0	101.9	90.6	75.5	68.7	63.4	57.4	53.6	52.8
142.5°	137.4	124.5	104.9	89.8	78.5	70.2	66.4	61.9	55.1	49.8	48.3
145°	162.3	147.2	126.8	114.0	101.9	89.1	76.2	62.7	51.3	44.5	43.8
147.5°	184.2	166.1	150.2	129.1	109.5	88.3	70.2	55.1	46.8	43.8	43.8
150°	151.0	134.4	126.1	107.9	90.6	72.5	59.6	51.3	46.8	45.3	45.3
152.5°	113.2	95.1	89.1	79.3	68.7	59.6	53.6	49.1	47.6	46.8	46.8
155°	105.7	90.6	83.0	74.0	63.4	55.9	52.1	49.8	48.3	47.6	47.6
157.5°	92.1	83.8	74.0	67.2	59.6	54.3	52.1	50.6	49.1	48.3	48.3
160°	82.3	76.2	67.2	61.9	56.6	54.3	54.3	53.6	51.3	50.6	50.6
162.5°	74.0	71.7	63.4	58.9	56.6	57.4	61.1	60.4	56.6	53.6	52.8
165°	68.7	66.4	60.4	58.1	56.6	59.6	67.2	65.7	59.6	55.9	55.9
167.5°	65.7	64.2	59.6	57.4	58.1	64.2	71.0	71.7	66.4	61.1	60.4
170°	60.4	60.4	59.6	60.4	60.4	63.4	67.2	69.4	69.4	71.0	70.2
172.5°	59.6	60.4	62.7	62.7	61.9	62.7	65.7	69.4	71.7	74.0	74.7
175°	61.1	61.9	63.4	64.2	64.2	65.7	70.2	73.2	74.7	74.0	74.0
177.5°	56.6	57.4	58.1	61.1	62.7	64.2	68.7	70.2	71.7	73.2	73.2
180°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3

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

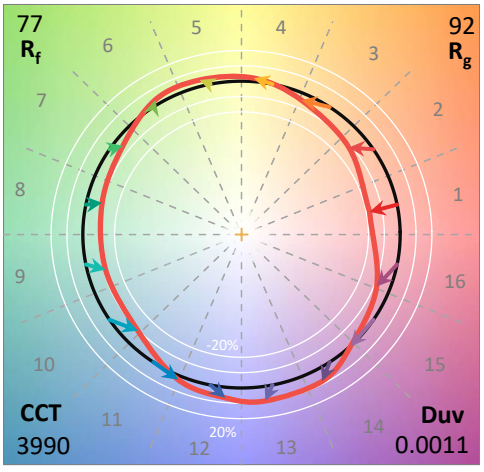
Test Information

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

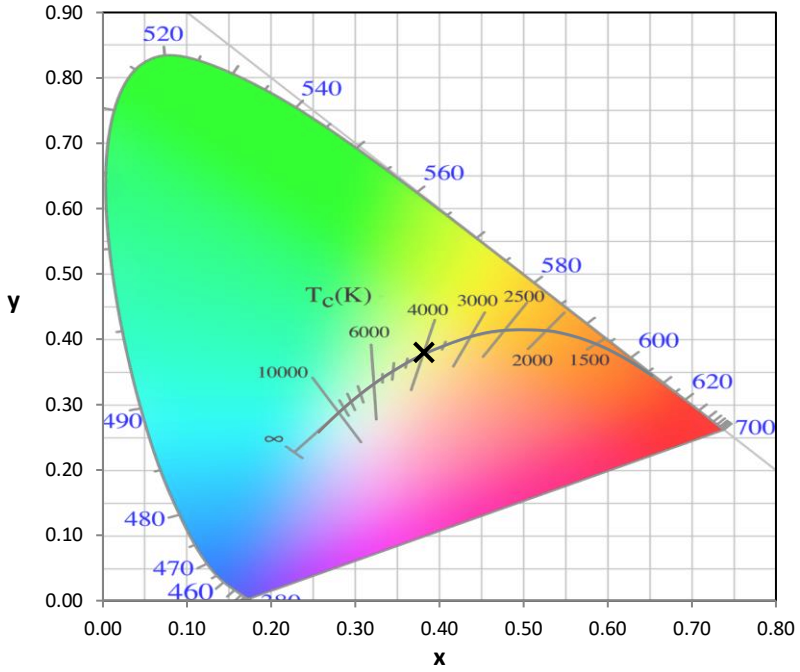
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

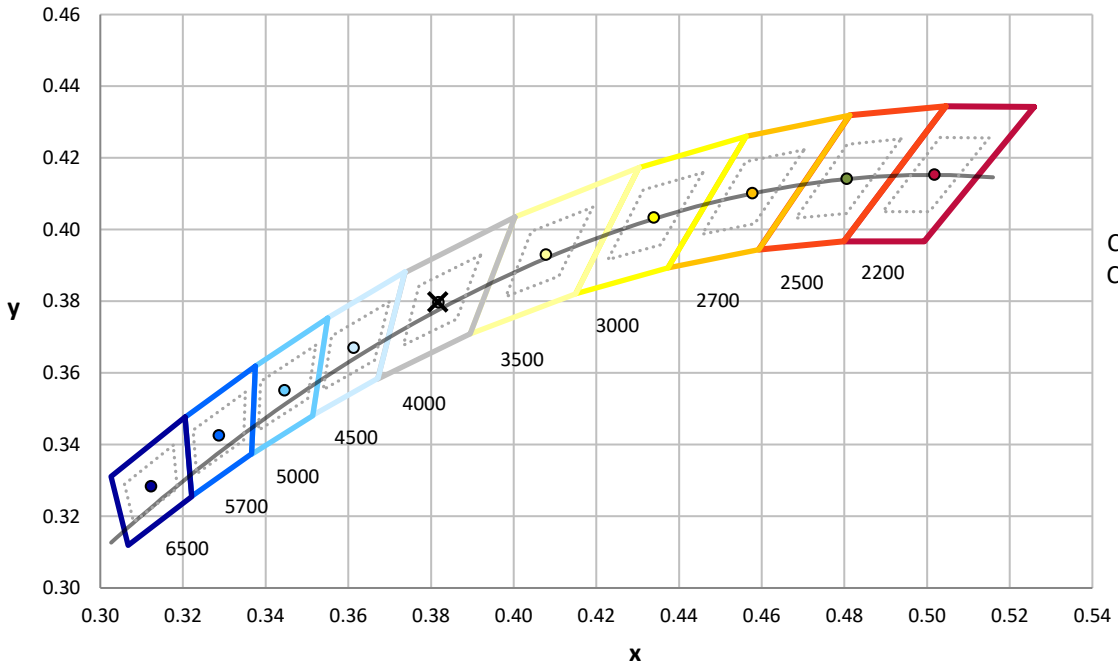
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

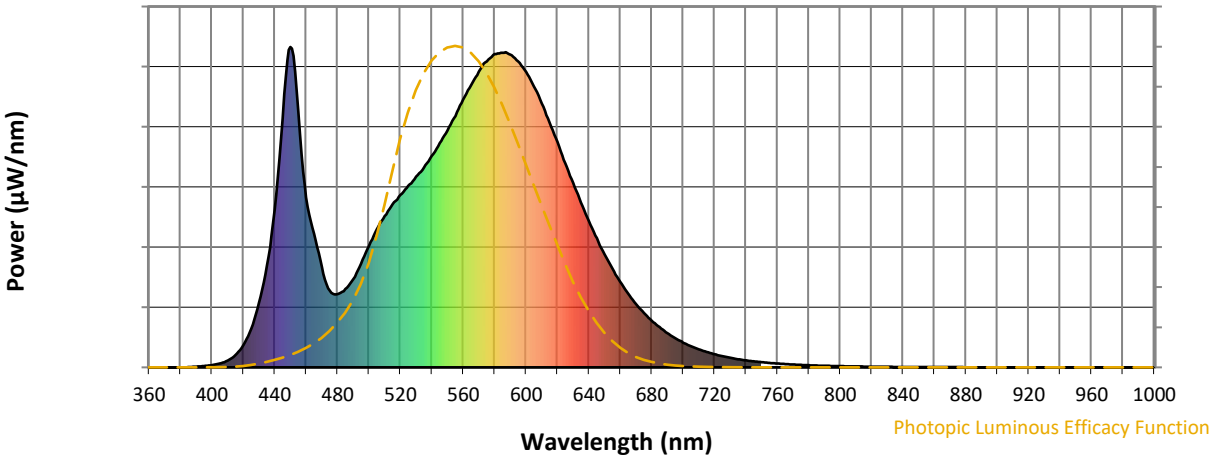


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

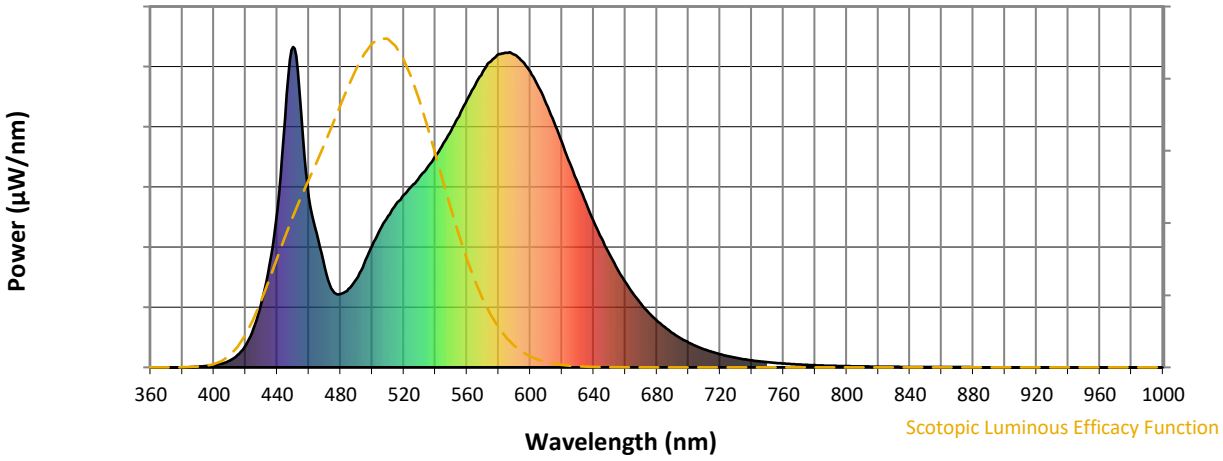


Photopic Lumens: NR

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

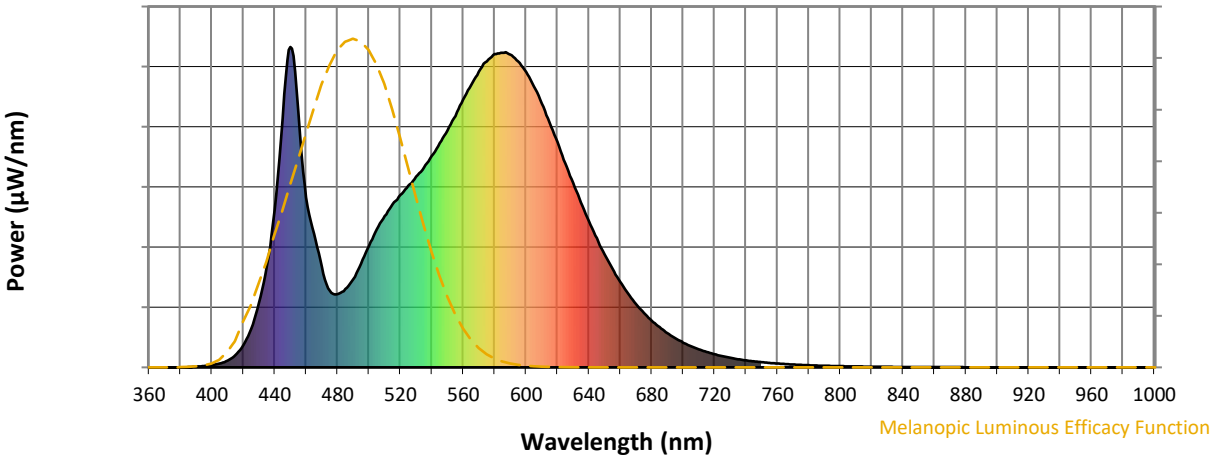


Scotopic Lumens: NR **S/P: 1.59**

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			

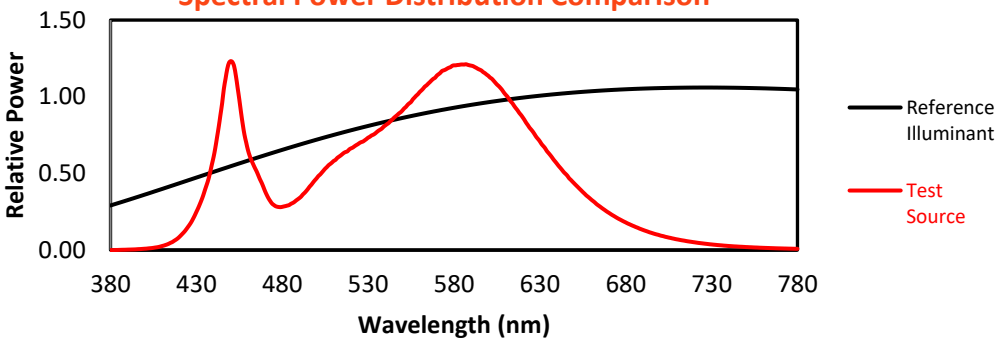
REPORT NUMBER: SP1-2501-332-1

TM-30-18

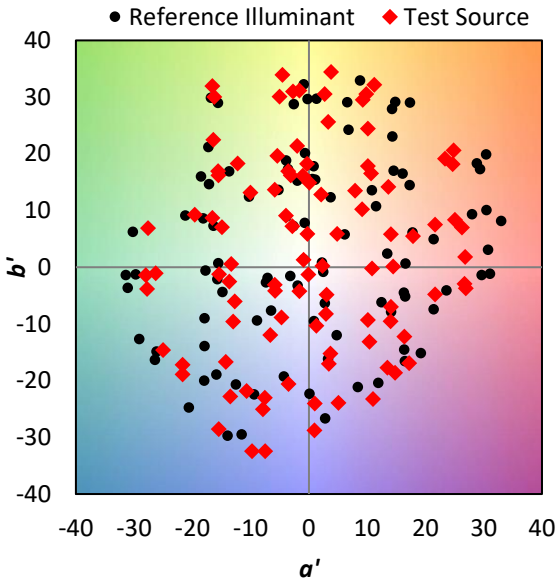
Summary

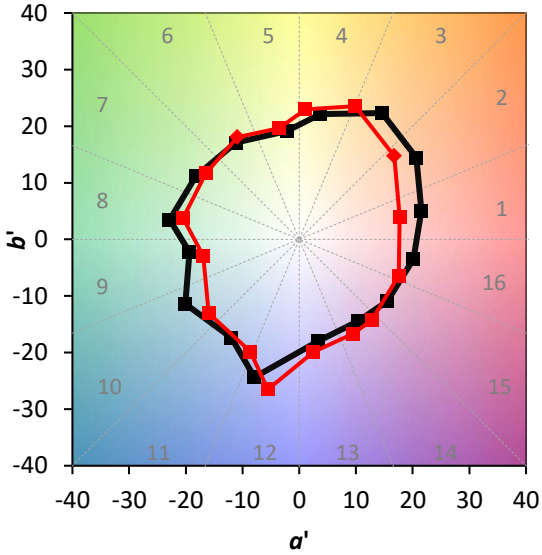
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

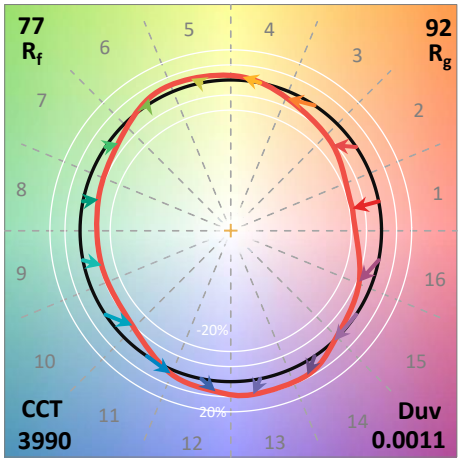
Spectral Power Distribution Comparison

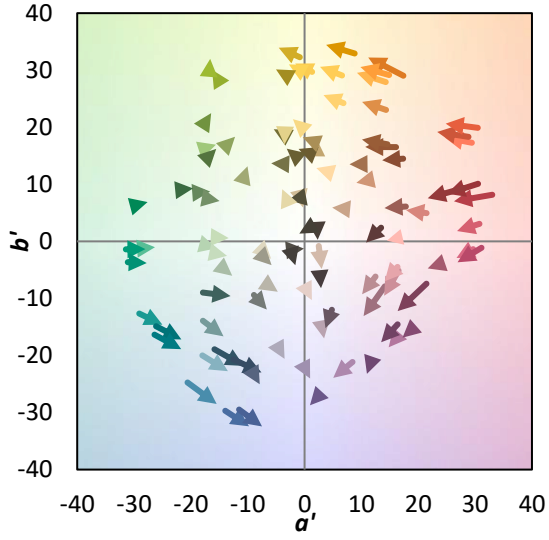


Color Vector Graphics







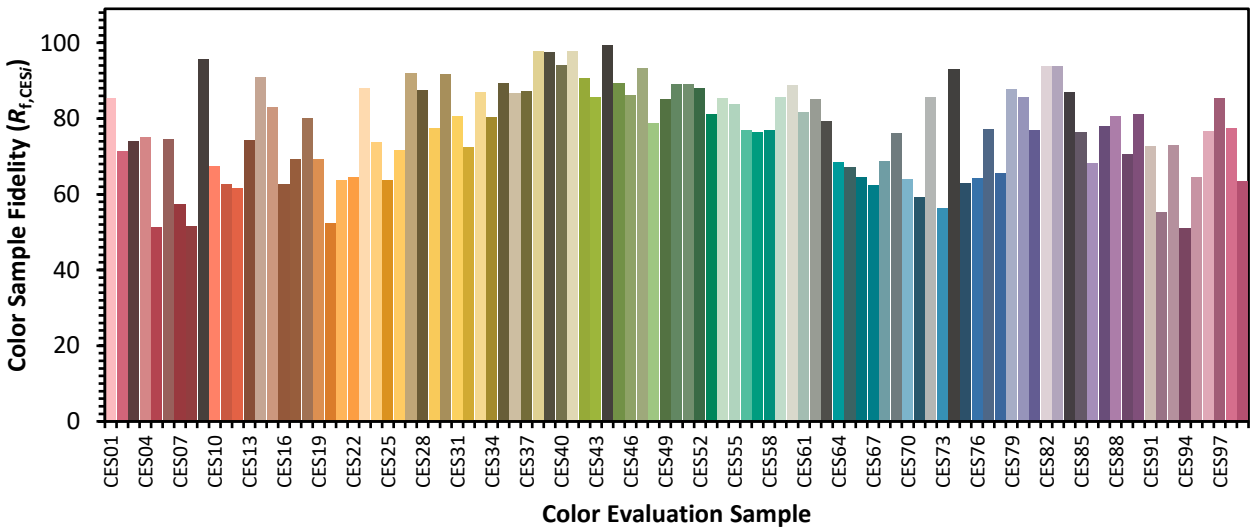


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

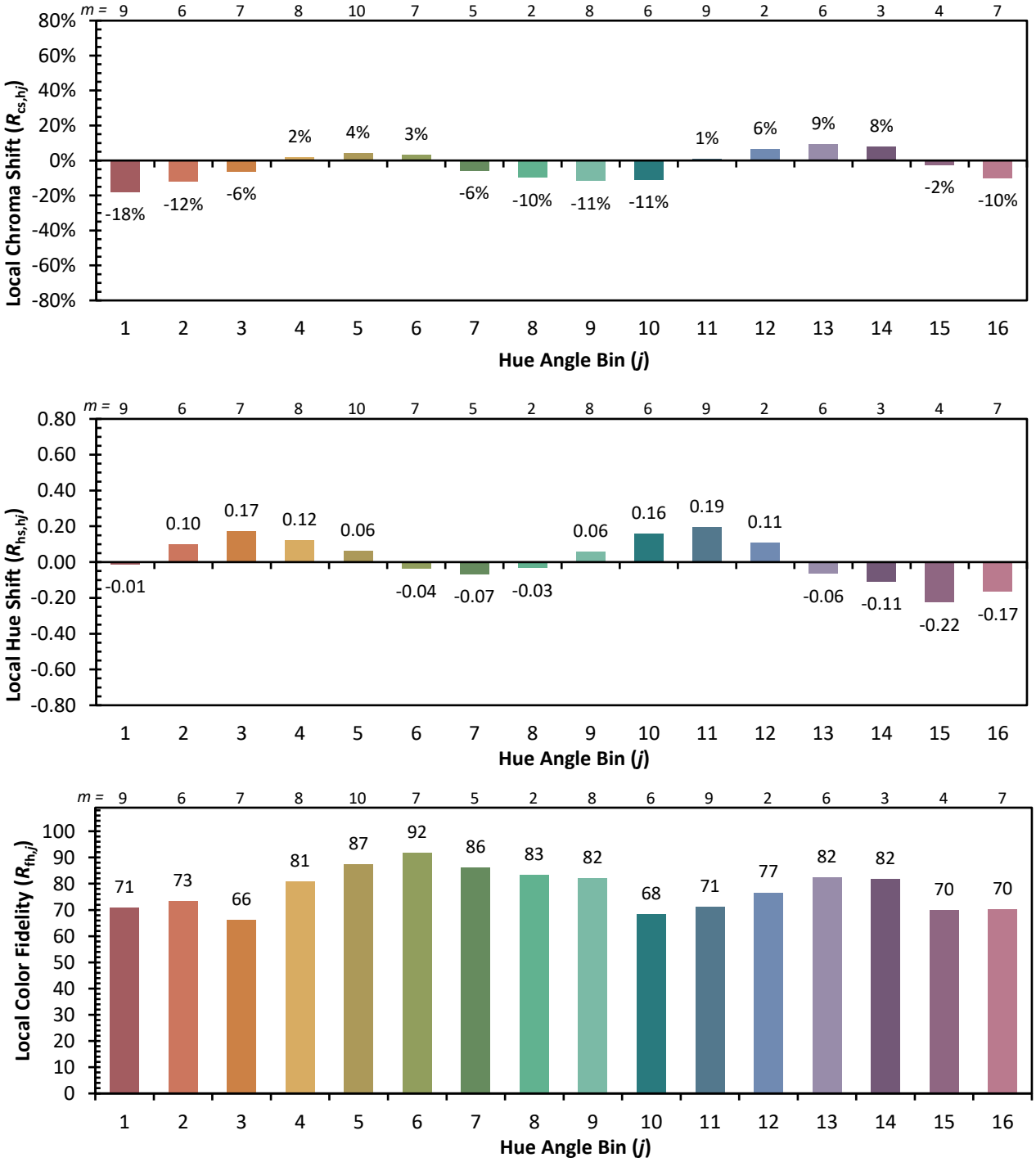
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82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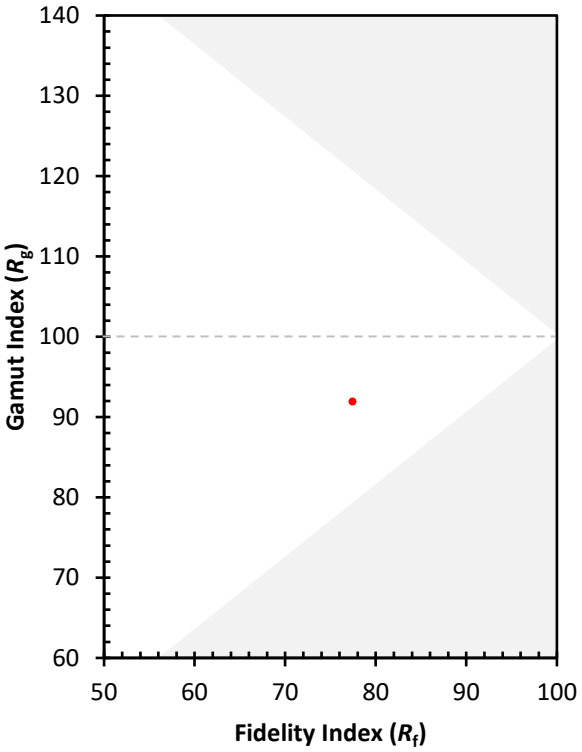
Color Rendition by Hue-Angle Bin

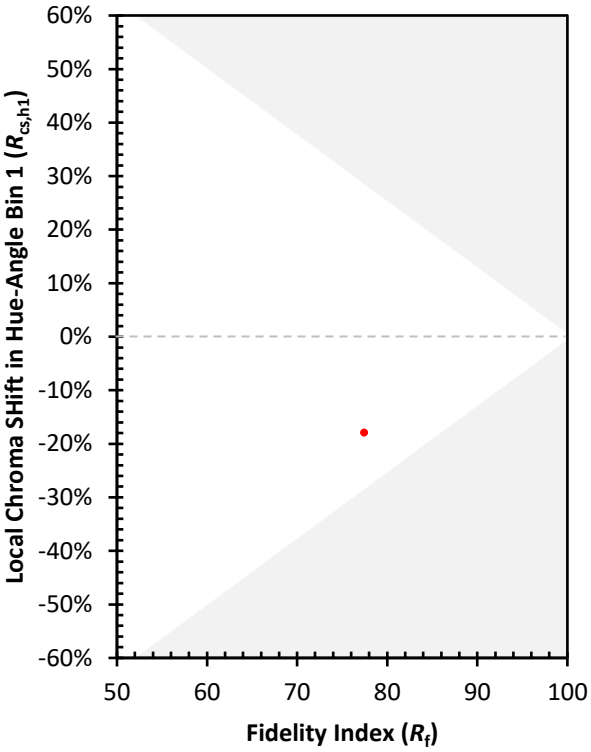


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Measure Comparisons





(END OF REPORT)