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: P981436

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

Issue Date: 04/15/2025

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981436
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-740-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:	11455.1 lumens
Efficiency:	N/A
Efficacy:	160.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U5 - G3

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

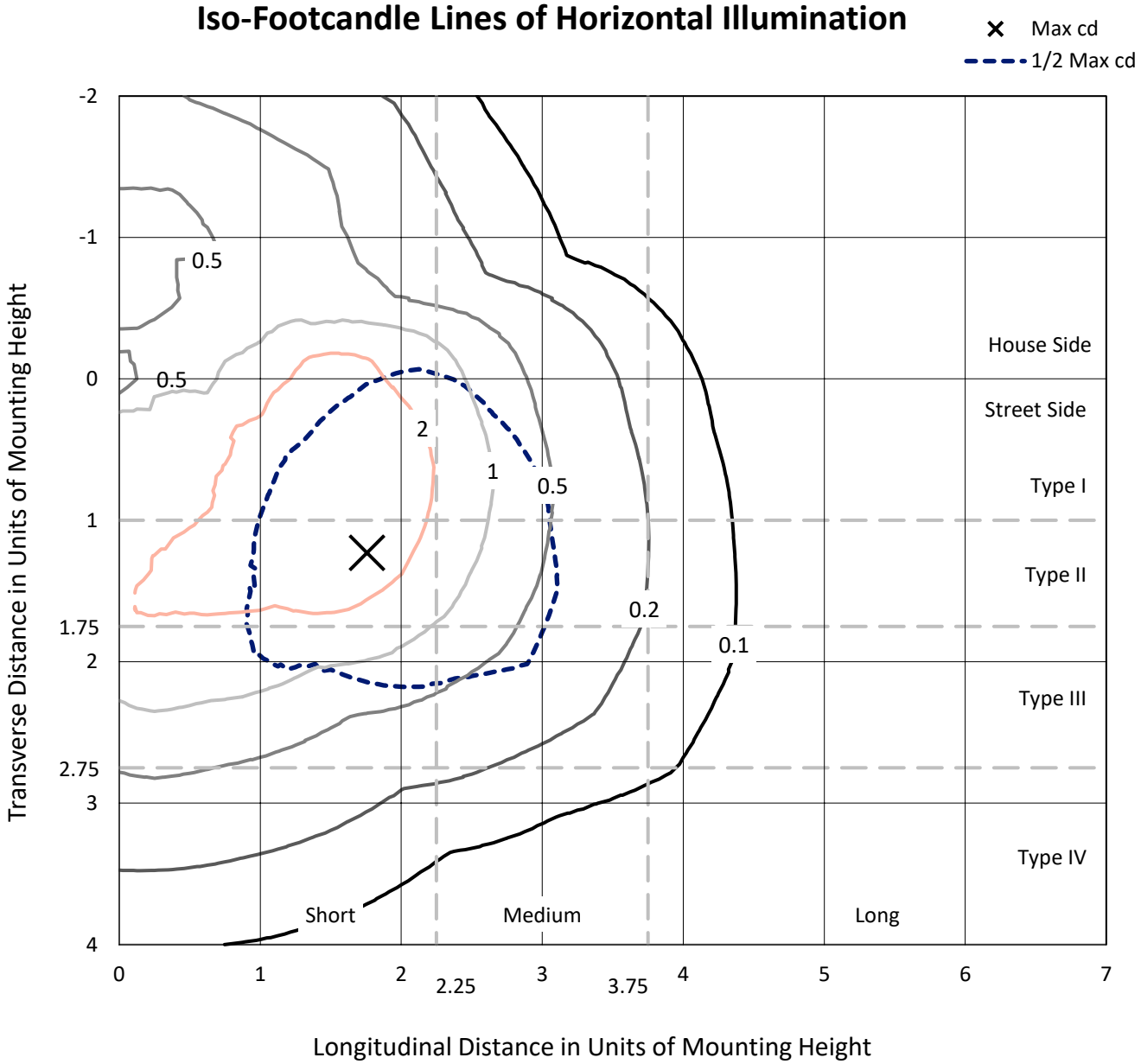


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Iso-Footcandle Lines of Horizontal Illumination



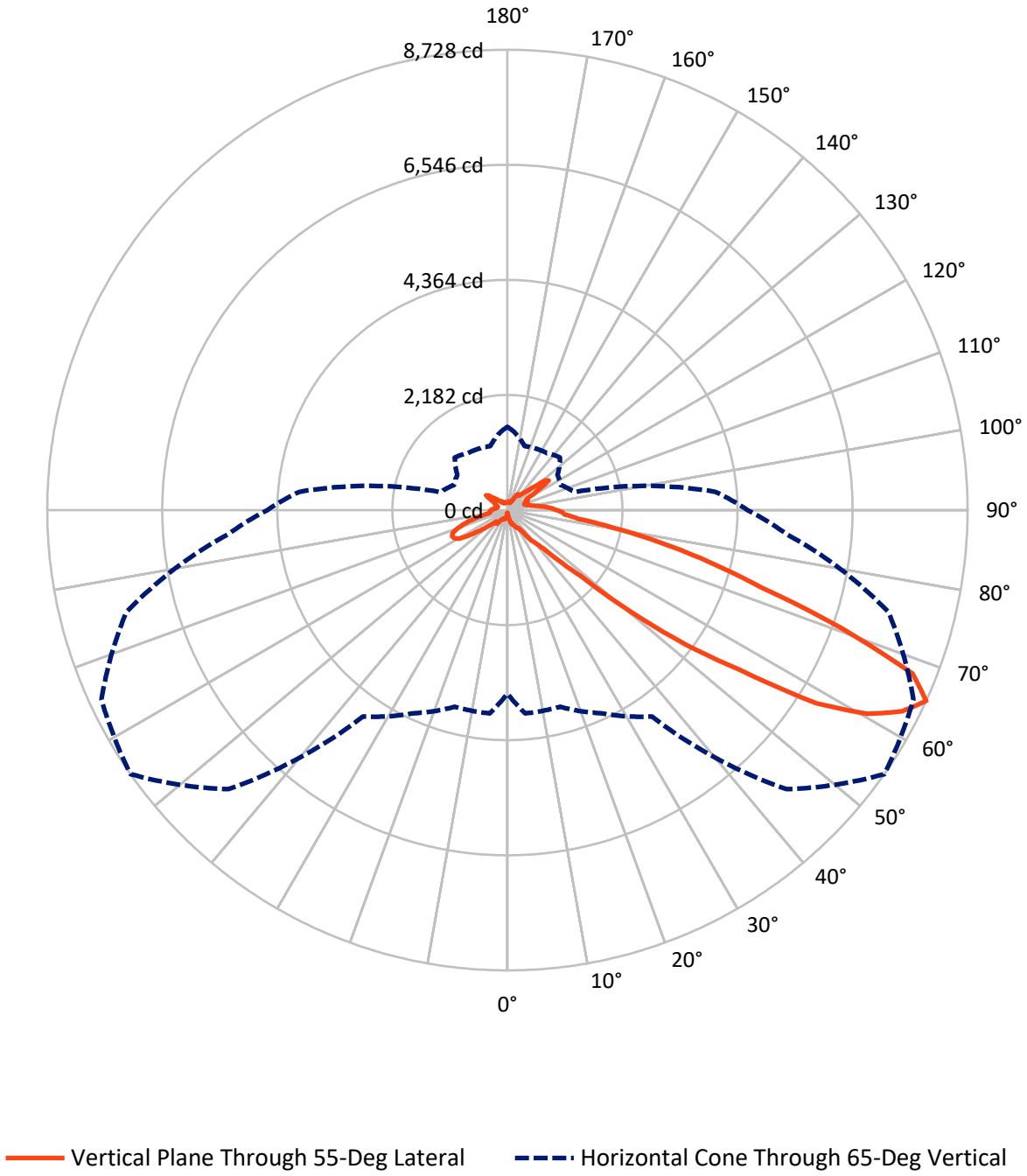
Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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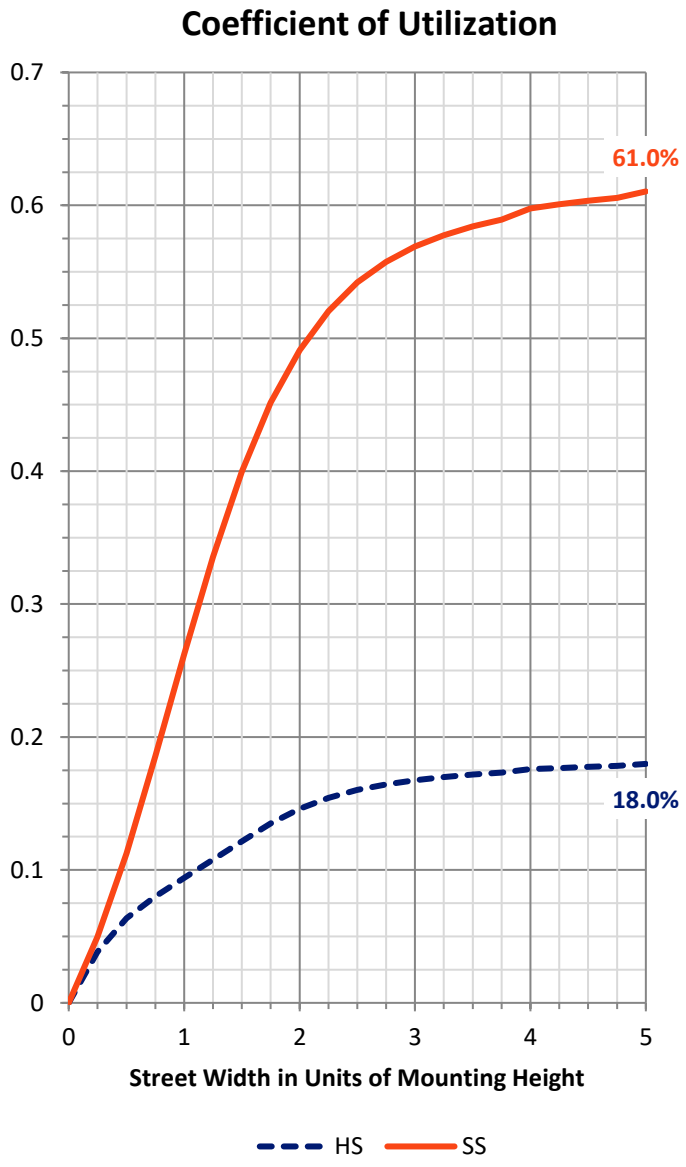
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2147.2	769.2	2916.4
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	7219.1	1319.6	8538.7
	% Fixture	63.0	11.5	74.5
Total	Lumens	9366.3	2088.9	11455.1
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.1
10°-20°	58.2	0.5
20°-30°	119.6	1.0
30°-40°	250.5	2.2
40°-50°	661.3	5.8
50°-60°	2200.7	19.2
60°-70°	3549.8	31.0
70°-80°	1862.1	16.3
80°-90°	653.4	5.7
90°-100°	421.9	3.7
100°-110°	273.5	2.4
110°-120°	300.1	2.6
120°-130°	504.7	4.4
130°-140°	295.7	2.6
140°-150°	158.2	1.4
150°-160°	78.6	0.7
160°-170°	41.4	0.4
170°-180°	15.0	0.1
0°-90°	9366.3	81.8
0°-180°	11455.1	100.0



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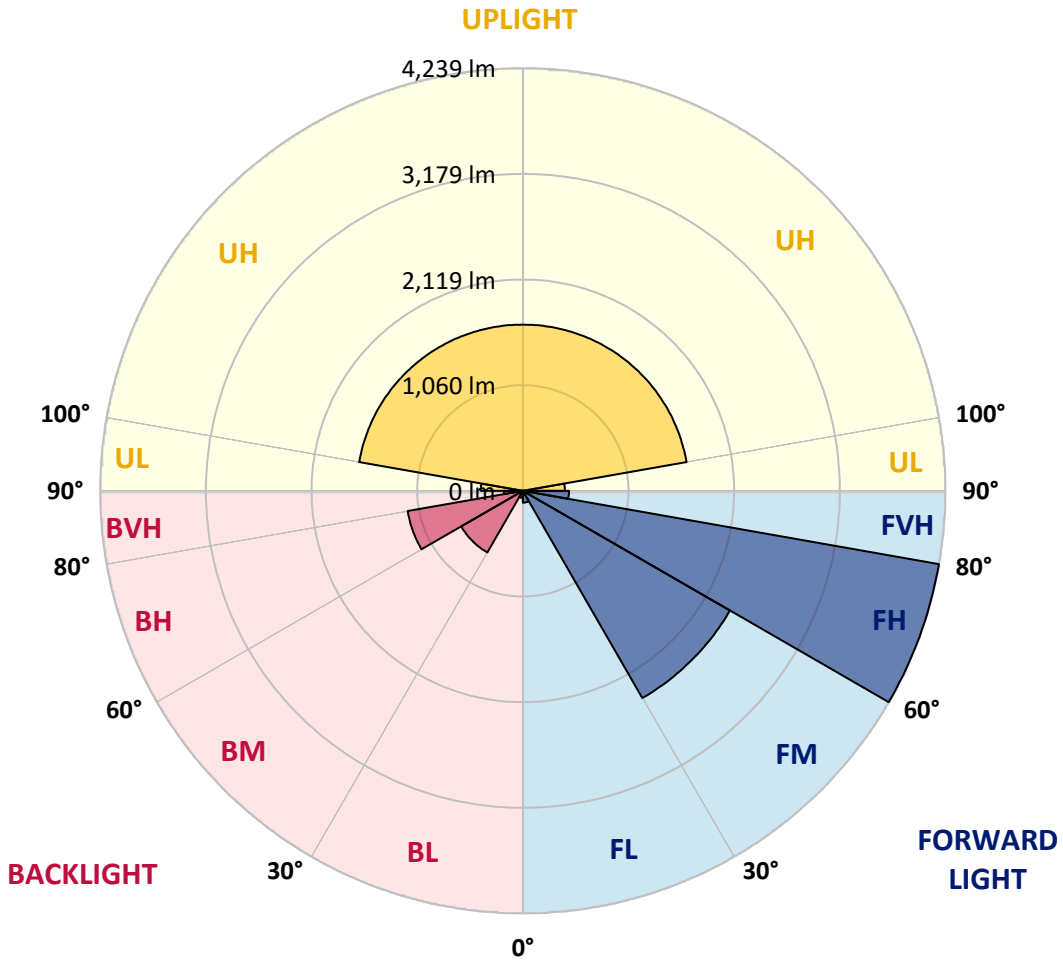
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	118.8	1.0			
FM	(30°-60°)	2399.0	20.9			
FH	(60°-80°)	4238.6	37.0			G2/5000
FVH	(80°-90°)	462.6	4.0			G3/500
BL	(0°-30°)	69.6	0.6	B0/110		
BM	(30°-60°)	713.5	6.2	B1/1000		
BH	(60°-80°)	1173.3	10.2	B3/2500		G3/2500
BVH	(80°-90°)	190.8	1.7			G2/225
UL	(90°-100°)	421.9	3.7		U3/500	
UH	(100°-180°)	1667.0	14.6		U5	

BUG Rating: B3-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	64.9	64.9	64.9	64.9	64.9	64.9	*64.9*	64.9	64.9	64.9	64.9
2.5°	64.9	66.4	70.2	71.7	72.4	70.9	*67.9*	70.9	70.9	70.9	70.2
5°	94.3	94.3	94.3	96.6	97.3	98.8	*97.3*	93.5	90.5	87.5	86.7
7.5°	132.0	133.5	134.3	134.3	134.3	137.3	*140.3*	133.5	127.5	121.4	119.9
10°	189.3	185.6	181.8	183.3	180.3	174.2	*177.3*	172.0	158.4	153.9	153.9
12.5°	242.1	241.4	242.9	234.6	230.1	217.2	*218.8*	215.7	205.9	190.1	184.8
15°	271.6	273.8	273.1	276.1	269.3	251.2	*246.7*	248.2	239.1	224.0	216.5
17.5°	286.6	286.6	287.4	291.2	291.2	273.8	*266.3*	262.5	255.0	242.1	232.3
20°	294.2	294.2	293.4	298.7	309.3	299.5	*288.9*	282.9	276.1	255.7	240.6
22.5°	315.3	313.8	311.5	313.0	328.9	325.9	*317.6*	308.5	298.7	267.8	248.9
25°	337.2	337.9	331.1	333.4	349.2	353.8	*347.0*	337.9	326.6	279.9	261.0
27.5°	362.1	361.3	352.3	355.3	363.6	380.2	*371.9*	367.4	348.5	289.7	271.6
30°	384.7	380.9	371.9	379.4	379.4	405.8	*398.3*	400.5	377.2	307.8	288.1
32.5°	401.3	400.5	395.3	405.1	399.8	433.7	*431.5*	450.3	415.6	343.2	325.1
35°	439.0	439.8	461.6	480.5	471.4	521.2	*531.8*	555.9	513.7	431.5	411.9
37.5°	710.6	701.5	671.3	636.6	641.2	733.9	*721.1*	733.9	669.1	550.6	519.7
40°	748.3	750.5	715.8	689.4	685.7	804.1	*823.7*	927.8	792.0	660.0	598.9
42.5°	728.7	736.2	831.3	865.2	835.0	985.9	*991.9*	1192.6	924.0	813.9	733.2
45°	924.0	925.5	945.2	967.0	970.8	1346.4	*1367.6*	1589.3	1175.2	1025.1	888.6
47.5°	1051.5	1063.6	1090.7	1240.1	1319.3	1721.3	*1862.4*	2214.7	1565.2	1397.7	1128.5
50°	1486.8	1519.9	1654.2	1782.4	1906.1	2552.6	*3027.1*	3447.2	2351.2	2048.7	1639.9
52.5°	1811.9	1931.0	2081.2	2390.4	2520.9	3488.7	*4234.0*	4494.2	3293.3	2776.6	2234.3
55°	2094.0	2312.7	2474.9	2981.0	3229.2	4548.5	*5343.6*	5381.3	4419.5	3389.1	2864.9
57.5°	2674.8	2993.9	3099.5	3532.4	3877.9	5810.5	*6914.8*	6729.2	5569.1	4086.9	3537.7
60°	3221.7	3589.0	3549.8	3948.8	4405.9	6895.9	*7844.9*	7750.6	6646.3	4747.6	4126.1
62.5°	3399.7	3772.3	3739.1	4158.5	4773.3	7402.1	*8403.0*	8246.9	7282.1	5161.0	4421.8
65°	*3477.4*	*3870.4*	*3861.3*	*4253.6*	*4777.8*	*7482.8*	*8728.2*	*8495.8*	*7482.0*	*5327.7*	*4551.5*
67.5°	3411.0	3785.1	3781.4	4142.7	4429.3	6897.4	*8288.4*	7945.9	6989.5	4935.5	4271.7
70°	2943.3	3203.6	3187.7	3409.5	3559.6	5482.3	*6726.2*	6467.5	5640.8	4055.9	3538.5
72.5°	2400.2	2477.2	2510.4	2637.1	2677.1	4012.2	*5044.1*	4838.2	4206.1	3037.6	2683.1
75°	1916.7	1920.5	1955.2	1999.7	1986.1	2951.6	*3973.0*	3845.5	3101.7	2266.0	2035.1
77.5°	1268.8	1258.9	1411.3	1429.4	1342.7	1880.5	*2966.7*	2877.0	2219.9	1651.2	1488.3
80°	727.9	730.9	835.0	900.6	866.0	1194.8	*2032.9*	2013.3	1524.5	1155.6	1022.1
82.5°	543.1	568.8	624.6	659.3	645.7	898.4	*1352.5*	1389.4	1083.2	831.3	759.6
85°	605.0	619.3	625.3	627.6	611.0	840.3	*1092.2*	1090.0	910.5	697.7	673.6
87.5°	589.1	601.2	606.5	609.5	592.9	803.3	*1031.9*	1016.8	873.5	670.6	635.1
90°	495.6	523.5	522.7	549.1	530.3	706.0	*905.2*	895.4	792.8	617.8	576.3
92.5°	415.6	431.5	442.0	478.2	461.6	621.6	*813.9*	791.3	709.8	562.0	517.5
95°	388.5	402.8	411.1	431.5	411.1	537.1	*685.7*	665.3	589.1	468.4	425.4
97.5°	327.4	331.9	339.4	353.0	339.4	435.2	*555.2*	535.6	473.0	382.4	352.3
100°	277.6	282.1	291.9	301.7	294.9	372.6	*464.7*	454.1	406.6	332.7	312.3
102.5°	262.5	265.5	278.3	284.4	276.1	342.5	*410.3*	410.3	368.1	307.0	290.4
105°	250.4	254.2	264.0	266.3	260.2	315.3	*378.7*	374.9	341.7	287.4	271.6
107.5°	238.4	242.9	251.2	247.4	244.4	290.4	*340.2*	346.2	317.6	273.1	262.5
110°	251.2	252.7	259.5	253.4	258.7	288.9	*341.7*	343.2	334.9	298.0	286.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	341.7	333.4	347.7	325.1	342.5	363.6	*396.8*	408.8	399.0	356.8	347.0
115°	374.1	380.2	395.3	372.6	383.9	409.6	*425.4*	427.7	416.4	389.2	385.5
117.5°	291.9	322.1	306.3	319.8	324.4	359.8	*396.0*	406.6	396.0	358.3	381.7
120°	373.4	397.5	343.2	326.6	349.2	411.1	*444.3*	453.3	424.7	425.4	439.8
122.5°	619.3	632.9	666.8	684.2	657.8	695.5	*706.8*	715.1	671.3	620.0	594.4
125°	939.9	930.1	925.5	921.0	914.2	954.2	*961.7*	940.6	896.9	825.2	785.2
127.5°	850.1	858.4	871.2	869.7	863.7	894.6	*913.5*	900.6	888.6	819.9	796.6
130°	611.7	615.5	638.1	678.9	674.4	699.2	*701.5*	714.3	734.7	704.5	680.4
132.5°	506.9	510.7	544.6	562.7	564.2	565.0	*554.4*	583.8	605.0	574.8	554.4
135°	442.0	442.0	449.6	442.8	445.0	464.7	*473.7*	500.1	505.4	491.1	470.7
137.5°	390.7	392.2	376.4	363.6	365.8	401.3	*421.7*	442.0	431.5	402.0	387.7
140°	340.2	331.9	310.0	306.3	322.8	356.8	*368.9*	383.2	386.2	348.5	329.6
142.5°	250.4	247.4	257.2	277.6	286.6	343.2	*334.2*	361.3	362.8	299.5	268.5
145°	279.9	279.1	278.3	282.1	303.2	385.5	*363.6*	398.3	414.9	318.3	260.2
147.5°	316.1	315.3	308.5	300.2	331.9	352.3	*332.7*	362.8	380.9	316.1	251.9
150°	244.4	245.9	242.1	239.9	274.6	270.8	*266.3*	274.6	282.1	261.7	229.3
152.5°	190.1	187.1	184.8	185.6	214.2	209.7	*209.7*	215.7	216.5	208.9	192.3
155°	171.2	170.5	169.0	172.0	189.3	184.8	*181.0*	179.5	175.8	173.5	171.2
157.5°	160.7	159.2	159.2	163.7	175.8	168.2	*166.7*	165.2	162.9	162.9	163.7
160°	150.1	149.4	149.4	156.1	159.9	153.1	*151.6*	150.9	150.1	151.6	153.1
162.5°	144.1	144.1	144.1	148.6	148.6	144.1	*142.6*	141.8	142.6	147.8	148.6
165°	141.8	141.1	141.8	144.1	143.3	140.3	*139.5*	139.5	141.8	146.3	147.1
167.5°	145.6	145.6	145.6	146.3	145.6	142.6	*141.8*	141.8	144.1	147.8	147.8
170°	151.6	150.9	150.9	150.9	150.1	147.1	*145.6*	146.3	147.1	149.4	149.4
172.5°	156.9	156.9	156.1	155.4	153.9	152.4	*150.9*	150.9	150.9	151.6	151.6
175°	162.9	162.9	162.9	162.2	162.2	159.9	*159.2*	158.4	157.7	156.9	156.1
177.5°	169.7	169.0	169.0	169.0	169.0	166.7	*165.2*	164.4	162.9	162.2	162.2
180°	166.7	166.7	166.7	166.7	166.7	166.7	*166.7*	166.7	166.7	166.7	166.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
2.5°	70.2	67.9	64.1	57.3	55.1	52.8	50.5	46.0	43.8	42.2
5°	86.0	83.0	82.2	78.4	73.2	68.6	67.9	66.4	65.6	63.4
7.5°	123.0	124.5	128.2	121.4	106.4	98.1	100.3	108.6	105.6	104.8
10°	154.6	164.4	172.0	154.6	127.5	110.1	110.9	127.5	129.0	132.0
12.5°	181.0	189.3	187.8	165.9	140.3	123.7	118.4	127.5	135.8	136.5
15°	209.7	195.4	190.1	172.0	153.9	141.1	138.8	141.1	141.1	139.5
17.5°	221.8	196.9	181.8	166.7	153.9	144.8	141.8	138.0	132.8	132.8
20°	224.8	202.9	185.6	169.7	156.9	147.1	138.8	134.3	132.8	132.8
22.5°	233.8	214.2	196.1	177.3	163.7	150.9	141.1	136.5	136.5	137.3
25°	246.7	228.6	205.9	186.3	172.0	158.4	145.6	138.8	138.0	138.8
27.5°	262.5	243.6	218.8	197.6	181.0	165.9	150.1	141.8	138.8	138.8
30°	280.6	258.7	230.8	207.4	189.3	175.8	156.1	144.8	141.1	139.5
32.5°	313.0	288.1	245.9	220.3	199.9	184.8	165.2	150.9	143.3	141.8
35°	393.0	354.5	299.5	252.7	221.8	195.4	172.0	154.6	144.8	143.3
37.5°	479.7	421.7	369.6	317.6	272.3	229.3	184.8	160.7	148.6	146.3
40°	534.1	457.9	411.9	334.2	328.1	292.7	227.0	177.3	156.1	153.1
42.5°	645.7	531.8	458.6	294.9	320.6	328.1	286.6	222.5	176.5	171.2
45°	777.7	625.3	514.4	315.3	330.4	321.3	293.4	258.0	220.3	209.7
47.5°	1007.8	713.6	534.1	365.8	377.9	353.0	311.5	274.6	246.7	242.9
50°	1454.3	973.1	601.2	449.6	485.8	416.4	362.8	334.2	296.4	291.9
52.5°	2029.1	1171.4	675.1	581.6	663.8	577.8	491.1	433.0	424.7	427.7
55°	2652.2	1232.5	772.4	718.9	862.9	782.2	682.7	626.8	681.9	699.2
57.5°	3269.9	1324.6	913.5	896.9	1080.2	957.2	878.8	902.9	1132.2	1187.3
60°	3756.5	1403.0	1032.7	1068.1	1295.2	1161.6	1128.5	1163.9	1557.7	1704.0
62.5°	3947.3	1367.6	1094.5	1140.5	1396.2	1305.0	1293.6	1327.6	1659.5	1803.6
65°	*3961.7*	*1313.3*	*1118.6*	*1160.1*	*1412.1*	*1314.8*	*1283.8*	*1255.2*	*1486.0*	*1577.3*
67.5°	3666.0	1204.6	1089.2	1132.2	1341.9	1212.9	1148.8	1083.9	1202.4	1252.9
70°	2955.4	1068.1	997.2	1022.1	1128.5	1009.3	921.8	877.3	919.5	915.7
72.5°	2238.8	940.6	896.1	871.2	921.8	825.2	728.7	685.7	723.4	713.6
75°	1710.0	839.6	798.1	715.1	764.1	633.6	527.3	497.8	516.0	509.2
77.5°	1234.1	672.8	617.8	526.5	589.9	460.9	353.8	332.7	337.2	322.8
80°	888.6	501.6	448.1	383.2	433.7	329.6	262.5	258.0	260.2	245.2
82.5°	697.7	402.0	366.6	331.9	347.7	298.0	252.7	248.2	250.4	233.8
85°	650.2	393.8	356.8	334.2	339.4	293.4	245.2	243.6	247.4	229.3
87.5°	613.3	390.0	360.6	328.1	315.3	269.3	227.0	233.8	244.4	225.5
90°	540.8	363.6	337.9	308.5	294.9	252.7	227.0	236.9	236.1	222.5
92.5°	476.7	324.4	304.0	287.4	284.4	257.2	237.6	246.7	249.7	236.1
95°	390.7	273.8	264.0	258.7	263.3	236.9	220.3	224.8	221.8	214.2
97.5°	332.7	249.7	242.9	235.3	230.8	212.0	197.6	203.7	206.7	199.9
100°	301.0	237.6	232.3	224.0	223.3	210.5	202.9	215.0	224.0	220.3
102.5°	281.4	225.5	218.8	211.2	208.9	198.4	192.3	199.9	208.2	200.6
105°	267.0	214.2	203.7	196.9	193.1	185.6	178.0	181.0	190.1	186.3
107.5°	253.4	213.5	196.9	191.6	191.6	181.8	171.2	172.0	176.5	175.8
110°	274.6	236.9	206.7	199.1	196.9	193.9	186.3	178.8	172.7	172.7

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

Scaled Data Report

REPORT NUMBER: P981436
CATALOG NUMBER: FFX-CLB-70-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	328.9	290.4	259.5	235.3	225.5	214.2	198.4	187.1	178.8	176.5
115°	353.0	311.5	282.1	255.7	233.1	211.2	197.6	189.3	184.8	189.3
117.5°	332.7	275.3	271.6	244.4	223.3	205.9	202.2	188.6	196.1	196.1
120°	374.1	319.8	311.5	272.3	242.9	221.0	218.8	216.5	208.2	204.4
122.5°	546.9	476.0	442.0	383.9	333.4	288.1	262.5	227.0	202.2	196.9
125°	743.0	649.5	568.0	491.1	414.9	334.2	266.3	213.5	187.8	184.1
127.5°	745.3	650.2	560.5	466.9	383.9	299.5	239.1	202.2	184.1	183.3
130°	655.5	572.5	473.7	380.9	313.8	258.0	214.2	184.1	171.2	167.5
132.5°	522.0	448.1	384.7	327.4	276.1	228.6	189.3	168.2	160.7	159.9
135°	439.0	374.9	330.4	288.1	248.2	205.9	169.7	159.2	155.4	153.9
137.5°	358.3	319.8	292.7	258.7	220.3	185.6	161.4	156.9	155.4	152.4
140°	310.8	285.1	255.7	218.0	188.6	159.9	147.1	150.9	154.6	153.9
142.5°	253.4	234.6	212.7	187.8	167.5	154.6	149.4	151.6	151.6	152.4
145°	240.6	215.7	203.7	188.6	175.0	165.2	152.4	147.8	147.1	147.1
147.5°	223.3	213.5	205.9	195.4	175.0	156.9	142.6	140.3	143.3	142.6
150°	208.9	202.2	193.1	176.5	156.1	144.1	136.5	137.3	142.6	143.3
152.5°	177.3	173.5	167.5	156.9	142.6	136.5	132.8	135.8	139.5	140.3
155°	157.7	155.4	153.9	147.1	138.0	134.3	132.8	135.0	138.8	139.5
157.5°	156.1	150.9	148.6	144.1	137.3	133.5	133.5	135.8	138.0	138.8
160°	151.6	144.8	144.1	139.5	138.0	135.8	137.3	138.0	140.3	139.5
162.5°	147.8	143.3	142.6	139.5	141.1	143.3	143.3	144.1	145.6	144.8
165°	146.3	142.6	141.8	141.8	146.3	150.1	150.9	150.1	150.1	150.1
167.5°	147.8	145.6	144.8	146.3	150.1	154.6	155.4	153.9	152.4	151.6
170°	150.1	149.4	150.1	150.9	153.1	156.1	156.1	154.6	154.6	154.6
172.5°	152.4	153.9	154.6	154.6	156.9	158.4	159.2	158.4	158.4	158.4
175°	156.9	157.7	157.7	158.4	160.7	162.2	163.7	163.7	163.7	163.7
177.5°	162.2	162.2	162.2	162.9	163.7	165.9	166.7	168.2	169.0	169.0
180°	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7

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

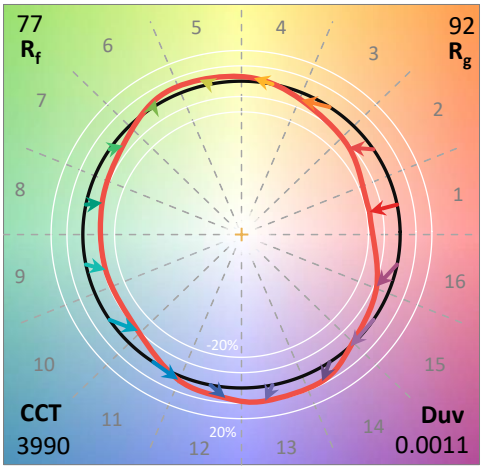
Test Information

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

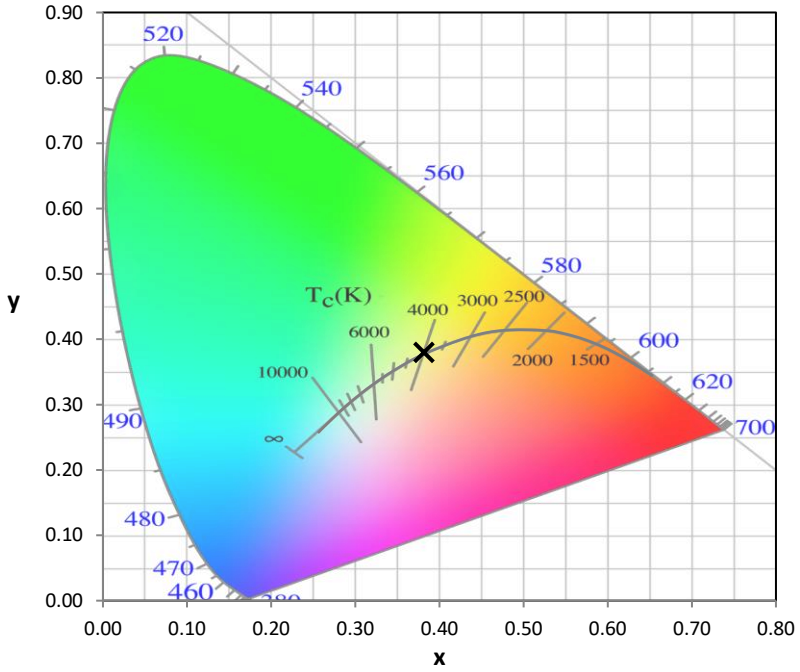
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

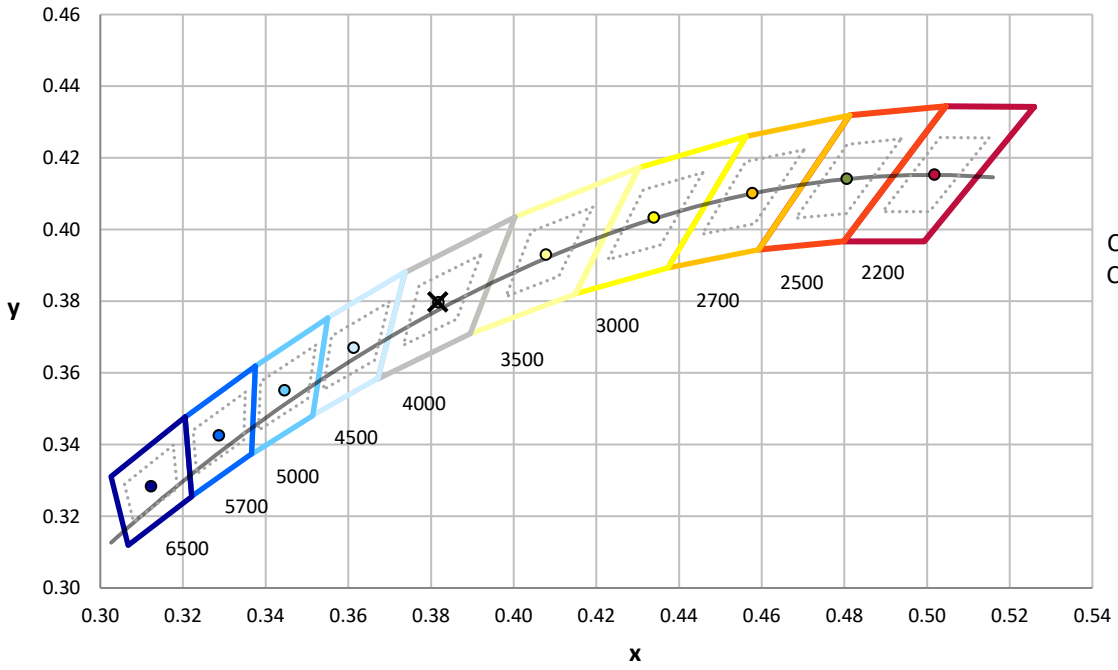
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

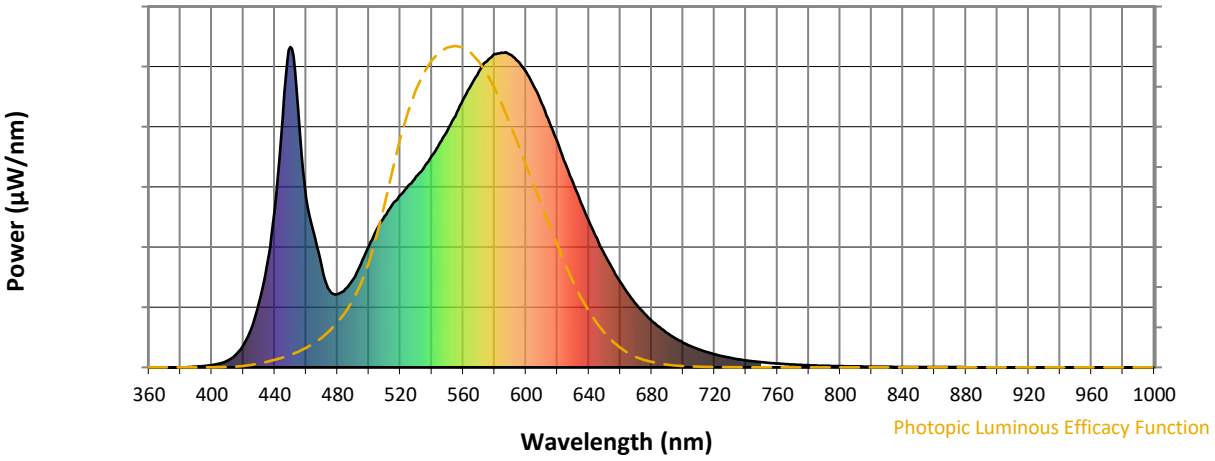


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

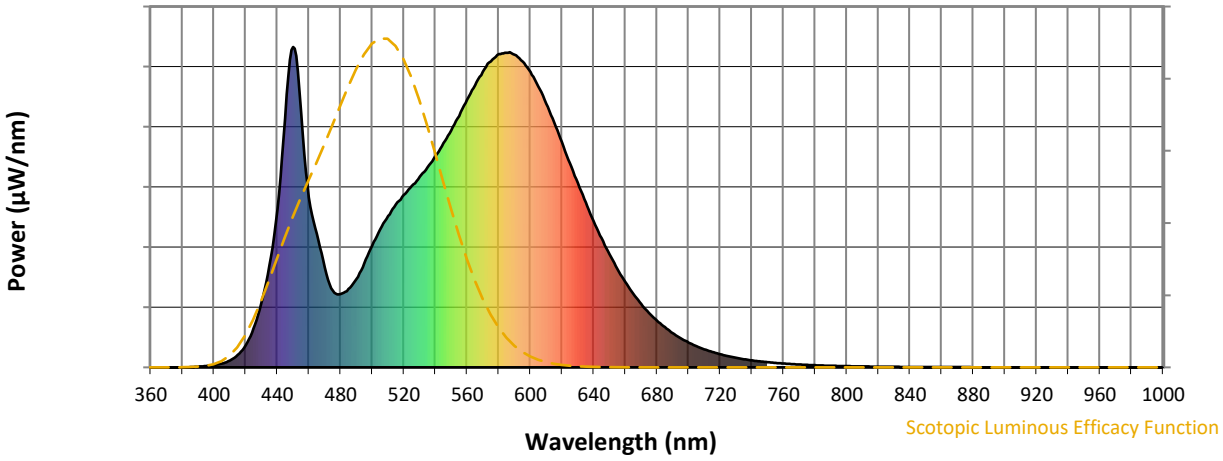


Photopic Lumens: NR

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

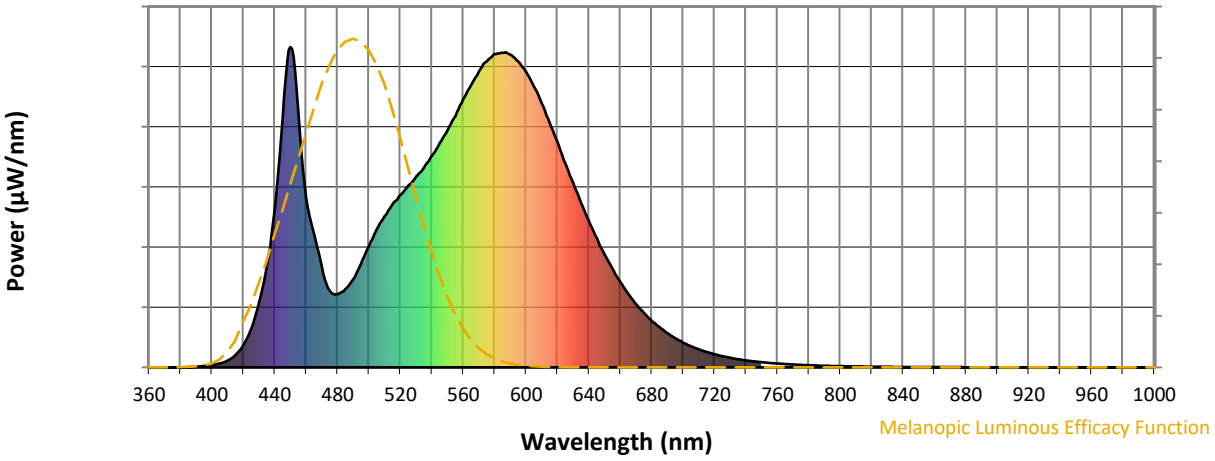


Scotopic Lumens: NR **S/P: 1.59**

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			

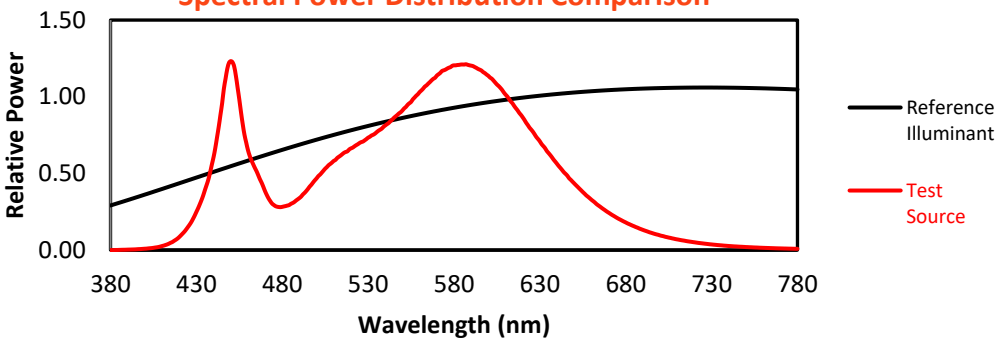
REPORT NUMBER: SP1-2501-332-1

TM-30-18

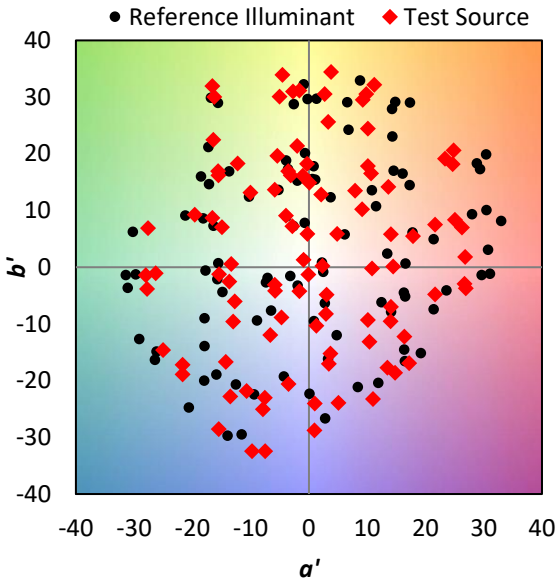
Summary

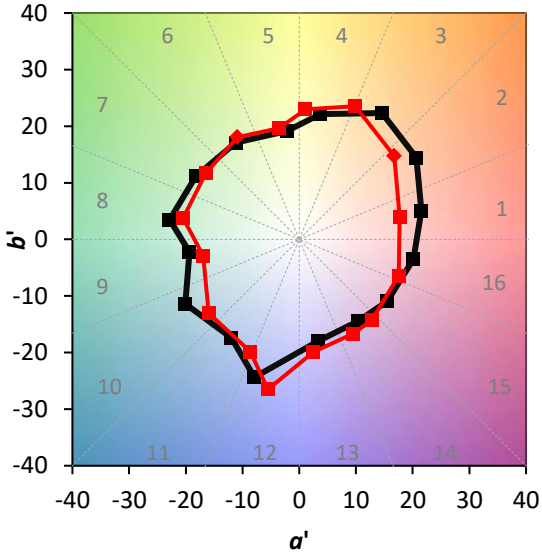
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

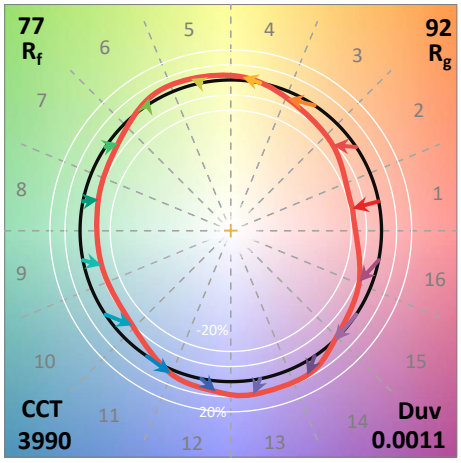
Spectral Power Distribution Comparison

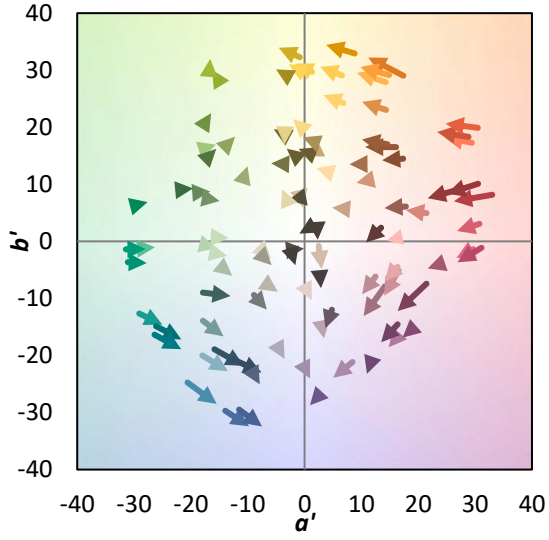


Color Vector Graphics







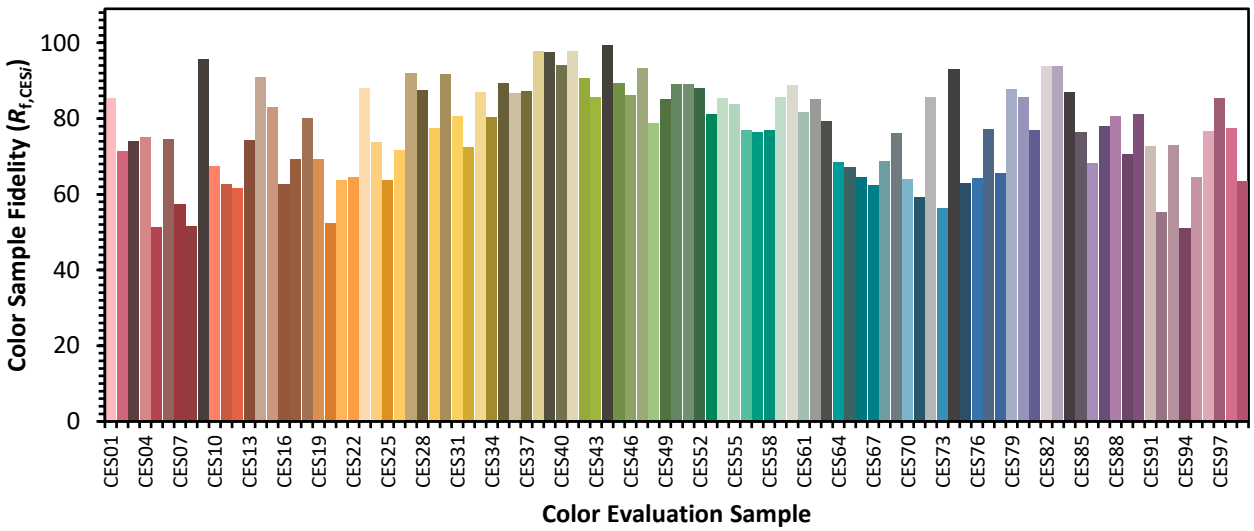


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

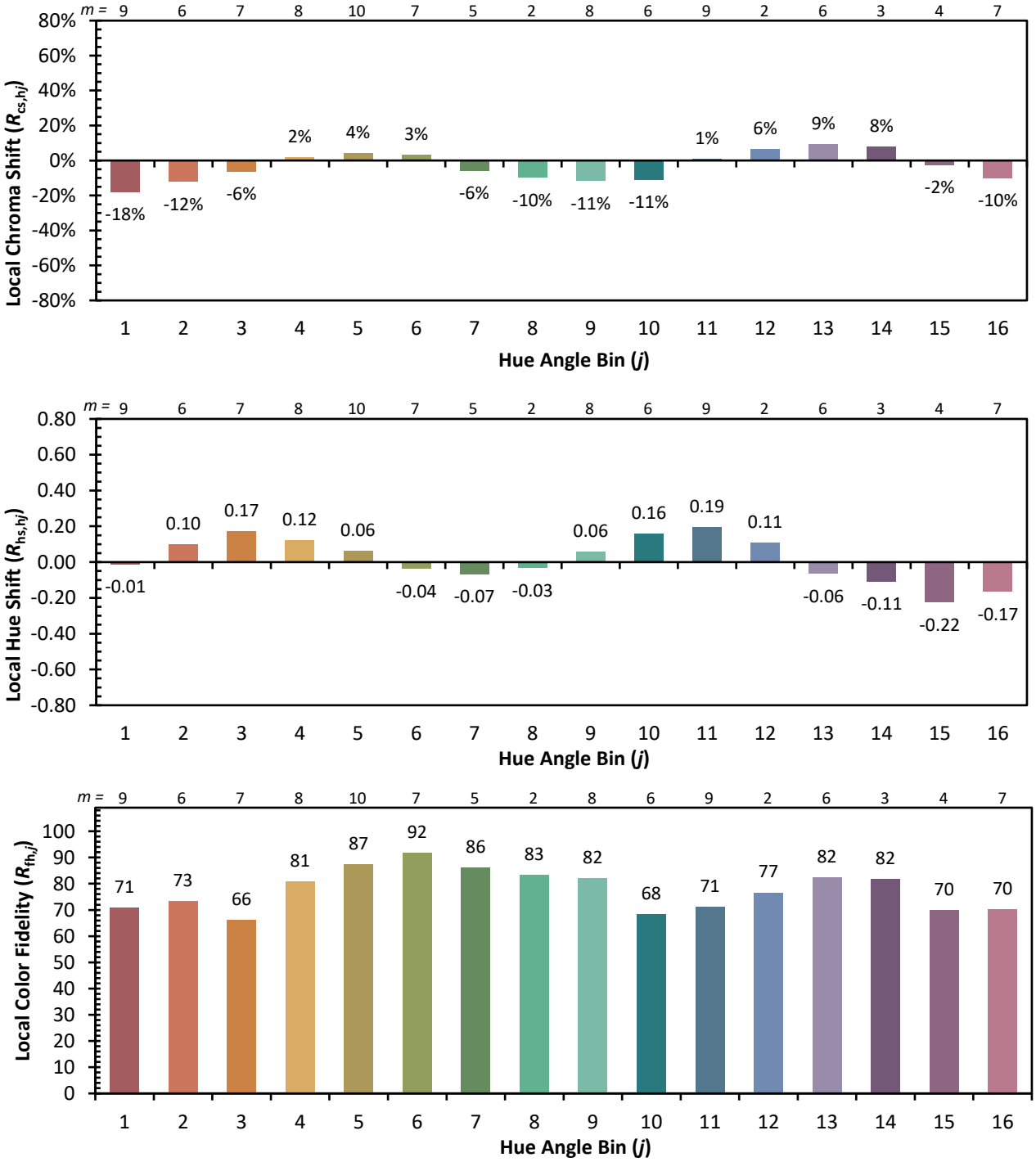
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
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CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 =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

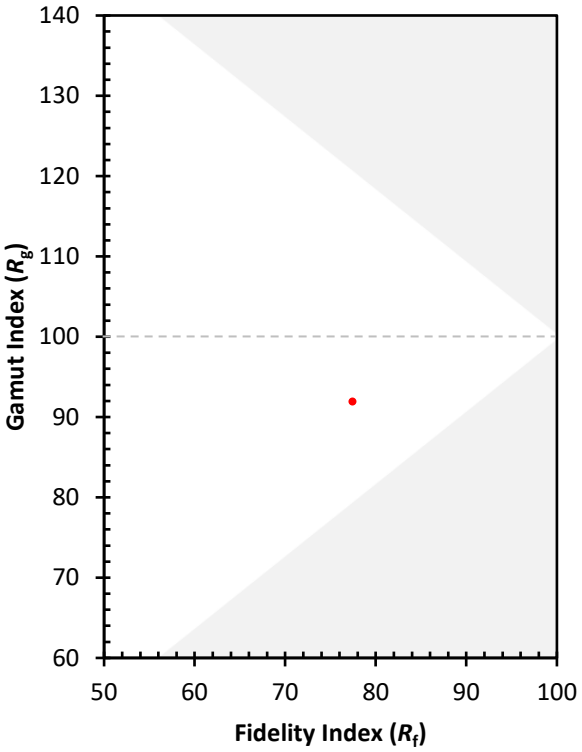
Color Rendition by Hue-Angle Bin

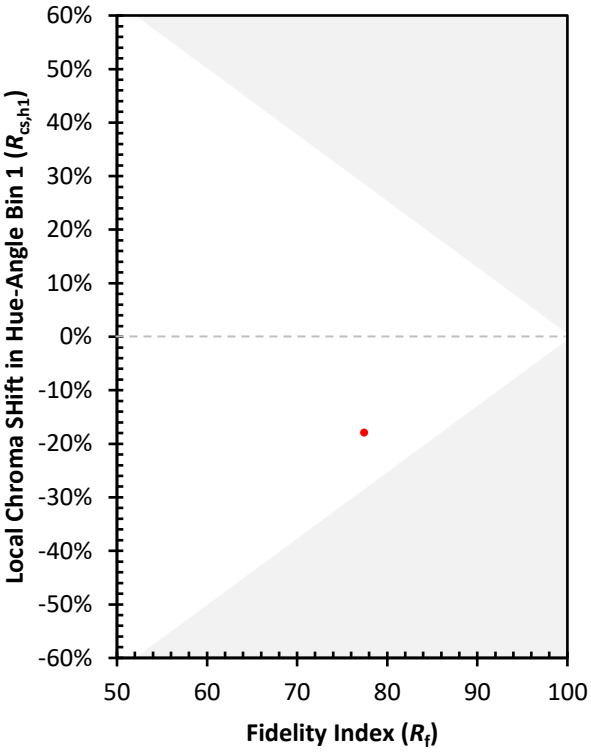


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Measure Comparisons





(END OF REPORT)