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: P981440

Luminaire Tested: **FFX-CLB-30-740-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:	P981440
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-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:	5052.1 lumens
Efficiency:	N/A
Efficacy:	165.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U4 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

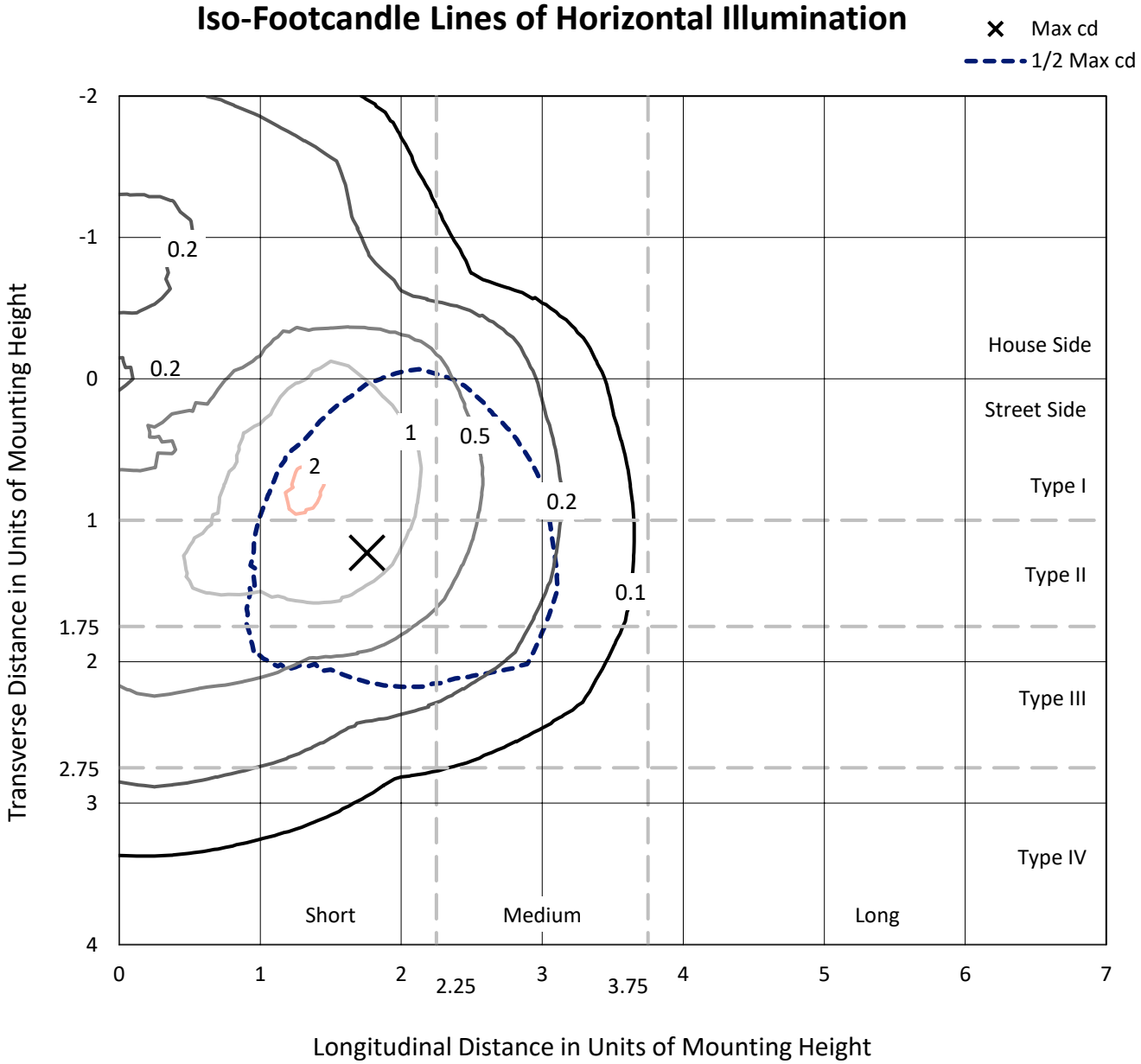


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Iso-Footcandle Lines of Horizontal Illumination



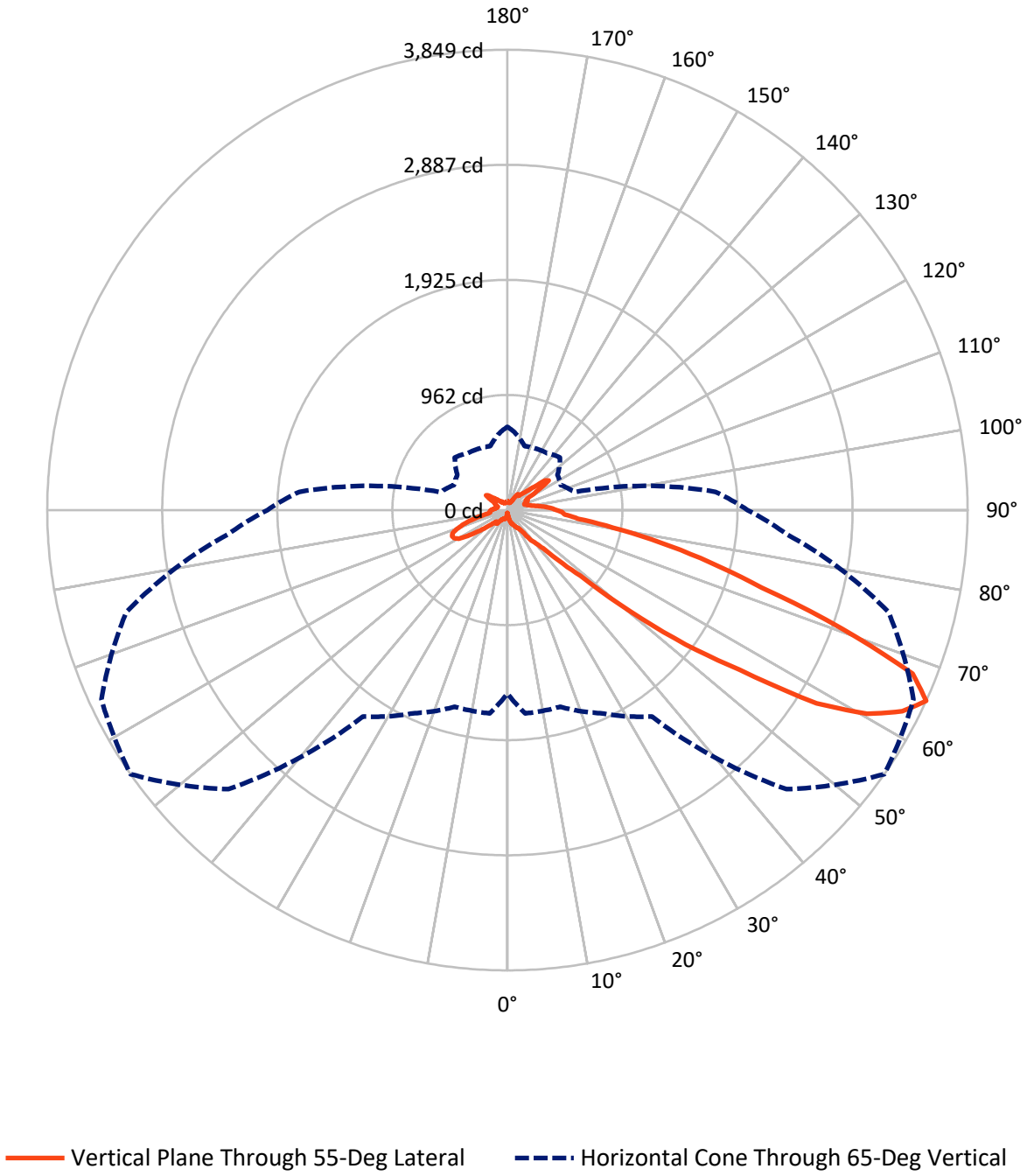
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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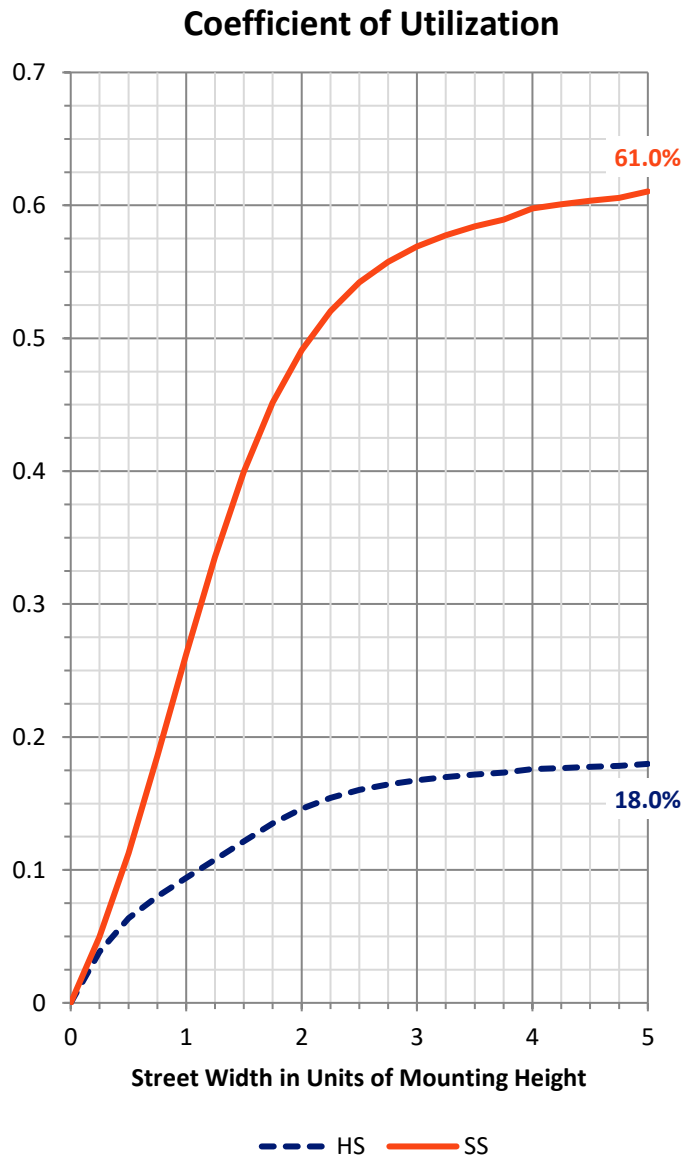
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.0	339.3	1286.2
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	3183.8	582.0	3765.8
	% Fixture	63.0	11.5	74.5
Total	Lumens	4130.8	921.2	5052.1
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	25.7	0.5
20°-30°	52.8	1.0
30°-40°	110.5	2.2
40°-50°	291.7	5.8
50°-60°	970.6	19.2
60°-70°	1565.6	31.0
70°-80°	821.3	16.3
80°-90°	288.2	5.7
90°-100°	186.0	3.7
100°-110°	120.6	2.4
110°-120°	132.3	2.6
120°-130°	222.6	4.4
130°-140°	130.4	2.6
140°-150°	69.8	1.4
150°-160°	34.7	0.7
160°-170°	18.2	0.4
170°-180°	6.6	0.1
0°-90°	4130.8	81.8
0°-180°	5052.1	100.0



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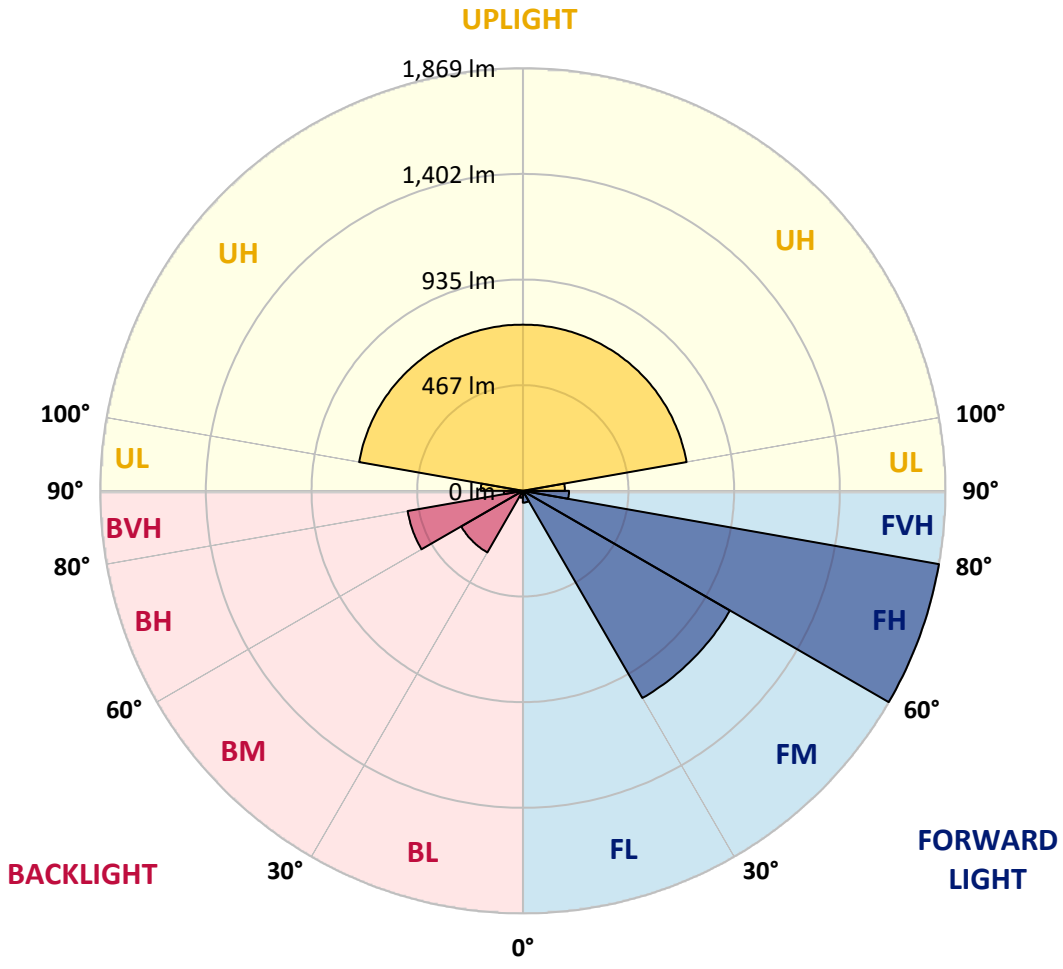
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	52.4	1.0			
FM	(30°-60°)	1058.0	20.9			
FH	(60°-80°)	1869.4	37.0			G2/5000
FVH	(80°-90°)	204.0	4.0			G2/225
BL	(0°-30°)	30.7	0.6	B0/110		
BM	(30°-60°)	314.7	6.2	B1/1000		
BH	(60°-80°)	517.5	10.2	B2/1000		G2/1000
BVH	(80°-90°)	84.1	1.7			G1/100
UL	(90°-100°)	186.0	3.7		U3/500	
UH	(100°-180°)	735.2	14.6		U4/1000	

BUG Rating: B2-U4-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
2.5°	28.6	29.3	30.9	31.6	31.9	31.3	29.9	31.3	31.3	31.3	30.9
5°	41.6	41.6	41.6	42.6	42.9	43.6	42.9	41.3	39.9	38.6	38.3
7.5°	58.2	58.9	59.2	59.2	59.2	60.5	61.9	58.9	56.2	53.6	52.9
10°	83.5	81.8	80.2	80.8	79.5	76.8	78.2	75.8	69.9	67.9	67.9
12.5°	106.8	106.5	107.1	103.5	101.5	95.8	96.5	95.1	90.8	83.8	81.5
15°	119.8	120.8	120.4	121.8	118.8	110.8	108.8	109.5	105.5	98.8	95.5
17.5°	126.4	126.4	126.7	128.4	128.4	120.8	117.4	115.8	112.4	106.8	102.5
20°	129.7	129.7	129.4	131.7	136.4	132.1	127.4	124.8	121.8	112.8	106.1
22.5°	139.1	138.4	137.4	138.1	145.0	143.7	140.1	136.1	131.7	118.1	109.8
25°	148.7	149.0	146.0	147.0	154.0	156.0	153.0	149.0	144.0	123.4	115.1
27.5°	159.7	159.4	155.4	156.7	160.3	167.7	164.0	162.0	153.7	127.7	119.8
30°	169.7	168.0	164.0	167.3	167.3	179.0	175.7	176.7	166.3	135.7	127.1
32.5°	177.0	176.7	174.3	178.6	176.3	191.3	190.3	198.6	183.3	151.4	143.4
35°	193.6	193.9	203.6	211.9	207.9	229.9	234.5	245.2	226.6	190.3	181.6
37.5°	313.4	309.4	296.1	280.8	282.8	323.7	318.0	323.7	295.1	242.9	229.2
40°	330.0	331.0	315.7	304.1	302.4	354.6	363.3	409.2	349.3	291.1	264.1
42.5°	321.4	324.7	366.6	381.6	368.3	434.8	437.5	526.0	407.5	359.0	323.4
45°	407.5	408.2	416.8	426.5	428.2	593.8	603.1	700.9	518.3	452.1	391.9
47.5°	463.7	469.1	481.0	546.9	581.8	759.2	821.4	976.7	690.3	616.4	497.7
50°	655.7	670.3	729.6	786.1	840.7	1125.8	1335.0	1520.3	1036.9	903.5	723.2
52.5°	799.1	851.6	917.8	1054.2	1111.8	1538.6	1867.3	1982.1	1452.5	1224.6	985.4
55°	923.5	1020.0	1091.5	1314.7	1424.2	2006.0	2356.7	2373.3	1949.1	1494.7	1263.5
57.5°	1179.7	1320.4	1367.0	1557.9	1710.3	2562.6	3049.6	2967.8	2456.1	1802.4	1560.2
60°	1420.9	1582.9	1565.6	1741.6	1943.2	3041.3	3459.8	3418.2	2931.2	2093.9	1819.7
62.5°	1499.4	1663.7	1649.1	1834.0	2105.2	3264.5	3706.0	3637.1	3211.6	2276.2	1950.1
65°	1533.6	1707.0	1703.0	1876.0	2107.2	3300.1	3849.4	3746.9	3299.8	2349.7	2007.4
67.5°	1504.4	1669.4	1667.7	1827.1	1953.5	3042.0	3655.4	3504.4	3082.6	2176.7	1883.9
70°	1298.1	1412.9	1405.9	1503.7	1569.9	2417.9	2966.5	2852.4	2487.7	1788.8	1560.6
72.5°	1058.6	1092.5	1107.1	1163.0	1180.7	1769.5	2224.6	2133.8	1855.0	1339.7	1183.3
75°	845.3	847.0	862.3	881.9	875.9	1301.8	1752.2	1696.0	1368.0	999.4	897.6
77.5°	559.6	555.2	622.4	630.4	592.2	829.4	1308.4	1268.8	979.1	728.2	656.4
80°	321.0	322.4	368.3	397.2	381.9	527.0	896.6	887.9	672.3	509.7	450.8
82.5°	239.5	250.8	275.5	290.8	284.8	396.2	596.5	612.8	477.7	366.6	335.0
85°	266.8	273.1	275.8	276.8	269.5	370.6	481.7	480.7	401.5	307.7	297.1
87.5°	259.8	265.1	267.5	268.8	261.5	354.3	455.1	448.4	385.2	295.7	280.1
90°	218.6	230.9	230.5	242.2	233.9	311.4	399.2	394.9	349.6	272.5	254.2
92.5°	183.3	190.3	194.9	210.9	203.6	274.1	359.0	349.0	313.0	247.8	228.2
95°	171.3	177.6	181.3	190.3	181.3	236.9	302.4	293.4	259.8	206.6	187.6
97.5°	144.4	146.4	149.7	155.7	149.7	192.0	244.8	236.2	208.6	168.7	155.4
100°	122.4	124.4	128.7	133.1	130.1	164.3	204.9	200.3	179.3	146.7	137.7
102.5°	115.8	117.1	122.8	125.4	121.8	151.0	181.0	181.0	162.3	135.4	128.1
105°	110.4	112.1	116.4	117.4	114.8	139.1	167.0	165.3	150.7	126.7	119.8
107.5°	105.1	107.1	110.8	109.1	107.8	128.1	150.0	152.7	140.1	120.4	115.8
110°	110.8	111.4	114.4	111.8	114.1	127.4	150.7	151.4	147.7	131.4	126.4

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REPORT NUMBER: P981440
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	150.7	147.0	153.4	143.4	151.0	160.3	*175.0*	180.3	176.0	157.4	153.0
115°	165.0	167.7	174.3	164.3	169.3	180.6	*187.6*	188.6	183.6	171.7	170.0
117.5°	128.7	142.1	135.1	141.1	143.1	158.7	*174.7*	179.3	174.7	158.0	168.3
120°	164.7	175.3	151.4	144.0	154.0	181.3	*195.9*	199.9	187.3	187.6	193.9
122.5°	273.1	279.1	294.1	301.7	290.1	306.7	*311.7*	315.4	296.1	273.5	262.1
125°	414.5	410.2	408.2	406.2	403.2	420.8	*424.2*	414.8	395.6	363.9	346.3
127.5°	374.9	378.6	384.2	383.6	380.9	394.6	*402.9*	397.2	391.9	361.6	351.3
130°	269.8	271.5	281.4	299.4	297.4	308.4	*309.4*	315.0	324.0	310.7	300.1
132.5°	223.6	225.2	240.2	248.2	248.8	249.2	*244.5*	257.5	266.8	253.5	244.5
135°	194.9	194.9	198.3	195.3	196.3	204.9	*208.9*	220.6	222.9	216.6	207.6
137.5°	172.3	173.0	166.0	160.3	161.3	177.0	*186.0*	194.9	190.3	177.3	171.0
140°	150.0	146.4	136.7	135.1	142.4	157.4	*162.7*	169.0	170.3	153.7	145.4
142.5°	110.4	109.1	113.4	122.4	126.4	151.4	*147.4*	159.4	160.0	132.1	118.4
145°	123.4	123.1	122.8	124.4	133.7	170.0	*160.3*	175.7	183.0	140.4	114.8
147.5°	139.4	139.1	136.1	132.4	146.4	155.4	*146.7*	160.0	168.0	139.4	111.1
150°	107.8	108.5	106.8	105.8	121.1	119.4	*117.4*	121.1	124.4	115.4	101.1
152.5°	83.8	82.5	81.5	81.8	94.5	92.5	*92.5*	95.1	95.5	92.2	84.8
155°	75.5	75.2	74.5	75.8	83.5	81.5	*79.8*	79.2	77.5	76.5	75.5
157.5°	70.9	70.2	70.2	72.2	77.5	74.2	*73.5*	72.9	71.9	71.9	72.2
160°	66.2	65.9	65.9	68.9	70.5	67.5	*66.9*	66.5	66.2	66.9	67.5
162.5°	63.5	63.5	63.5	65.5	65.5	63.5	*62.9*	62.5	62.9	65.2	65.5
165°	62.5	62.2	62.5	63.5	63.2	61.9	*61.5*	61.5	62.5	64.5	64.9
167.5°	64.2	64.2	64.2	64.5	64.2	62.9	*62.5*	62.5	63.5	65.2	65.2
170°	66.9	66.5	66.5	66.5	66.2	64.9	*64.2*	64.5	64.9	65.9	65.9
172.5°	69.2	69.2	68.9	68.5	67.9	67.2	*66.5*	66.5	66.5	66.9	66.9
175°	71.9	71.9	71.9	71.5	71.5	70.5	*70.2*	69.9	69.5	69.2	68.9
177.5°	74.9	74.5	74.5	74.5	74.5	73.5	*72.9*	72.5	71.9	71.5	71.5
180°	73.5	73.5	73.5	73.5	73.5	73.5	*73.5*	73.5	73.5	73.5	73.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
2.5°	30.9	29.9	28.3	25.3	24.3	23.3	22.3	20.3	19.3	18.6
5°	37.9	36.6	36.3	34.6	32.3	30.3	29.9	29.3	28.9	27.9
7.5°	54.2	54.9	56.6	53.6	46.9	43.2	44.2	47.9	46.6	46.2
10°	68.2	72.5	75.8	68.2	56.2	48.6	48.9	56.2	56.9	58.2
12.5°	79.8	83.5	82.8	73.2	61.9	54.6	52.2	56.2	59.9	60.2
15°	92.5	86.2	83.8	75.8	67.9	62.2	61.2	62.2	62.2	61.5
17.5°	97.8	86.8	80.2	73.5	67.9	63.9	62.5	60.9	58.6	58.6
20°	99.1	89.5	81.8	74.9	69.2	64.9	61.2	59.2	58.6	58.6
22.5°	103.1	94.5	86.5	78.2	72.2	66.5	62.2	60.2	60.2	60.5
25°	108.8	100.8	90.8	82.2	75.8	69.9	64.2	61.2	60.9	61.2
27.5°	115.8	107.5	96.5	87.2	79.8	73.2	66.2	62.5	61.2	61.2
30°	123.8	114.1	101.8	91.5	83.5	77.5	68.9	63.9	62.2	61.5
32.5°	138.1	127.1	108.5	97.1	88.2	81.5	72.9	66.5	63.2	62.5
35°	173.3	156.4	132.1	111.4	97.8	86.2	75.8	68.2	63.9	63.2
37.5°	211.6	186.0	163.0	140.1	120.1	101.1	81.5	70.9	65.5	64.5
40°	235.5	201.9	181.6	147.4	144.7	129.1	100.1	78.2	68.9	67.5
42.5°	284.8	234.5	202.3	130.1	141.4	144.7	126.4	98.1	77.8	75.5
45°	343.0	275.8	226.9	139.1	145.7	141.7	129.4	113.8	97.1	92.5
47.5°	444.5	314.7	235.5	161.3	166.7	155.7	137.4	121.1	108.8	107.1
50°	641.4	429.2	265.1	198.3	214.2	183.6	160.0	147.4	130.7	128.7
52.5°	894.9	516.6	297.7	256.5	292.8	254.8	216.6	191.0	187.3	188.6
55°	1169.7	543.6	340.7	317.0	380.6	345.0	301.1	276.5	300.7	308.4
57.5°	1442.1	584.2	402.9	395.6	476.4	422.2	387.6	398.2	499.3	523.6
60°	1656.7	618.8	455.4	471.1	571.2	512.3	497.7	513.3	687.0	751.5
62.5°	1740.9	603.1	482.7	503.0	615.8	575.5	570.5	585.5	731.9	795.4
65°	*1747.2*	*579.2*	*493.4*	*511.7*	*622.8*	*579.9*	*566.2*	*553.6*	*655.4*	*695.6*
67.5°	1616.8	531.3	480.4	499.3	591.8	534.9	506.7	478.1	530.3	552.6
70°	1303.4	471.1	439.8	450.8	497.7	445.1	406.5	386.9	405.5	403.9
72.5°	987.4	414.8	395.2	384.2	406.5	363.9	321.4	302.4	319.0	314.7
75°	754.2	370.3	352.0	315.4	337.0	279.4	232.5	219.6	227.5	224.6
77.5°	544.3	296.7	272.5	232.2	260.2	203.3	156.0	146.7	148.7	142.4
80°	391.9	221.2	197.6	169.0	191.3	145.4	115.8	113.8	114.8	108.1
82.5°	307.7	177.3	161.7	146.4	153.4	131.4	111.4	109.5	110.4	103.1
85°	286.8	173.7	157.4	147.4	149.7	129.4	108.1	107.5	109.1	101.1
87.5°	270.5	172.0	159.0	144.7	139.1	118.8	100.1	103.1	107.8	99.5
90°	238.5	160.3	149.0	136.1	130.1	111.4	100.1	104.5	104.1	98.1
92.5°	210.3	143.1	134.1	126.7	125.4	113.4	104.8	108.8	110.1	104.1
95°	172.3	120.8	116.4	114.1	116.1	104.5	97.1	99.1	97.8	94.5
97.5°	146.7	110.1	107.1	103.8	101.8	93.5	87.2	89.8	91.2	88.2
100°	132.7	104.8	102.5	98.8	98.5	92.8	89.5	94.8	98.8	97.1
102.5°	124.1	99.5	96.5	93.1	92.2	87.5	84.8	88.2	91.8	88.5
105°	117.8	94.5	89.8	86.8	85.2	81.8	78.5	79.8	83.8	82.2
107.5°	111.8	94.1	86.8	84.5	84.5	80.2	75.5	75.8	77.8	77.5
110°	121.1	104.5	91.2	87.8	86.8	85.5	82.2	78.8	76.2	76.2

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

Scaled Data Report

REPORT NUMBER: P981440
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	145.0	128.1	114.4	103.8	99.5	94.5	87.5	82.5	78.8	77.8
115°	155.7	137.4	124.4	112.8	102.8	93.1	87.2	83.5	81.5	83.5
117.5°	146.7	121.4	119.8	107.8	98.5	90.8	89.2	83.2	86.5	86.5
120°	165.0	141.1	137.4	120.1	107.1	97.5	96.5	95.5	91.8	90.2
122.5°	241.2	209.9	194.9	169.3	147.0	127.1	115.8	100.1	89.2	86.8
125°	327.7	286.4	250.5	216.6	183.0	147.4	117.4	94.1	82.8	81.2
127.5°	328.7	286.8	247.2	205.9	169.3	132.1	105.5	89.2	81.2	80.8
130°	289.1	252.5	208.9	168.0	138.4	113.8	94.5	81.2	75.5	73.9
132.5°	230.2	197.6	169.7	144.4	121.8	100.8	83.5	74.2	70.9	70.5
135°	193.6	165.3	145.7	127.1	109.5	90.8	74.9	70.2	68.5	67.9
137.5°	158.0	141.1	129.1	114.1	97.1	81.8	71.2	69.2	68.5	67.2
140°	137.1	125.8	112.8	96.1	83.2	70.5	64.9	66.5	68.2	67.9
142.5°	111.8	103.5	93.8	82.8	73.9	68.2	65.9	66.9	66.9	67.2
145°	106.1	95.1	89.8	83.2	77.2	72.9	67.2	65.2	64.9	64.9
147.5°	98.5	94.1	90.8	86.2	77.2	69.2	62.9	61.9	63.2	62.9
150°	92.2	89.2	85.2	77.8	68.9	63.5	60.2	60.5	62.9	63.2
152.5°	78.2	76.5	73.9	69.2	62.9	60.2	58.6	59.9	61.5	61.9
155°	69.5	68.5	67.9	64.9	60.9	59.2	58.6	59.5	61.2	61.5
157.5°	68.9	66.5	65.5	63.5	60.5	58.9	58.9	59.9	60.9	61.2
160°	66.9	63.9	63.5	61.5	60.9	59.9	60.5	60.9	61.9	61.5
162.5°	65.2	63.2	62.9	61.5	62.2	63.2	63.2	63.5	64.2	63.9
165°	64.5	62.9	62.5	62.5	64.5	66.2	66.5	66.2	66.2	66.2
167.5°	65.2	64.2	63.9	64.5	66.2	68.2	68.5	67.9	67.2	66.9
170°	66.2	65.9	66.2	66.5	67.5	68.9	68.9	68.2	68.2	68.2
172.5°	67.2	67.9	68.2	68.2	69.2	69.9	70.2	69.9	69.9	69.9
175°	69.2	69.5	69.5	69.9	70.9	71.5	72.2	72.2	72.2	72.2
177.5°	71.5	71.5	71.5	71.9	72.2	73.2	73.5	74.2	74.5	74.5
180°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5

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

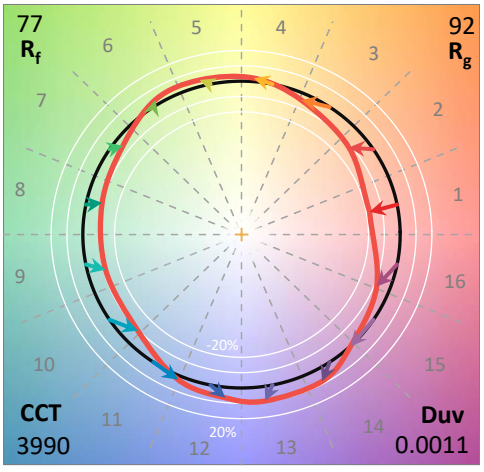
Test Information

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

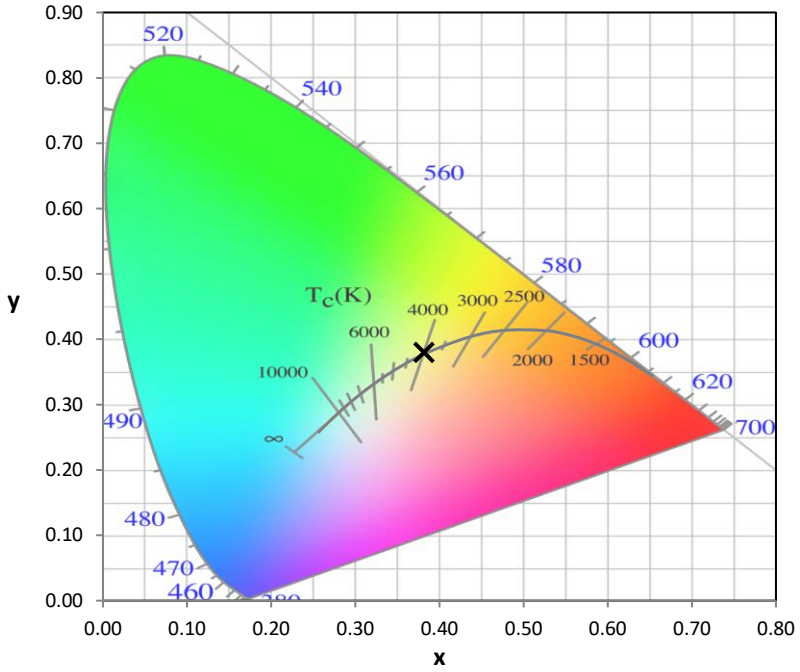
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

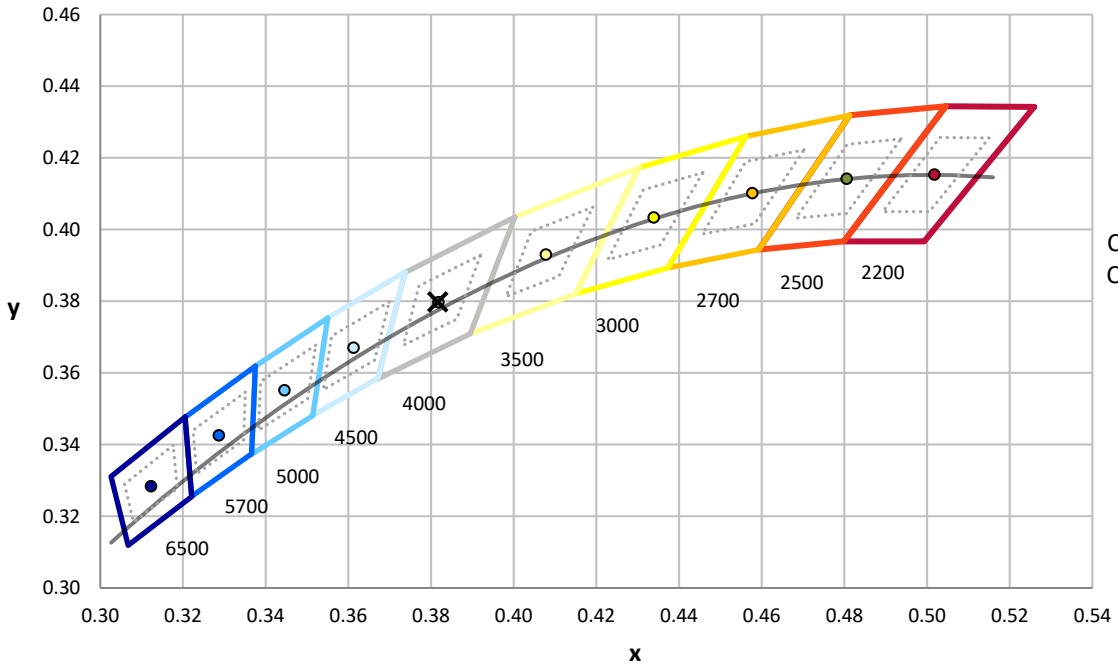
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

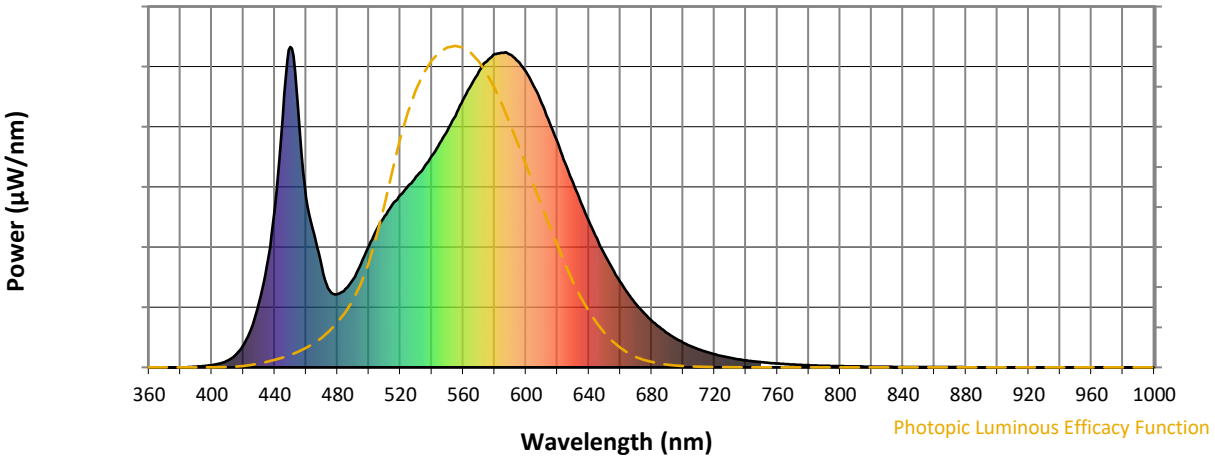


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

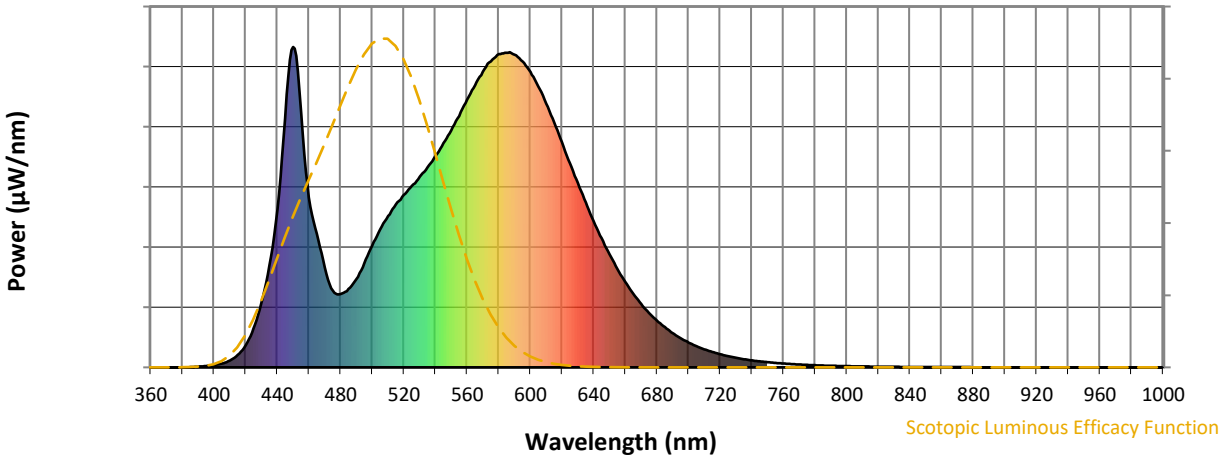


Photopic Lumens: NR

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

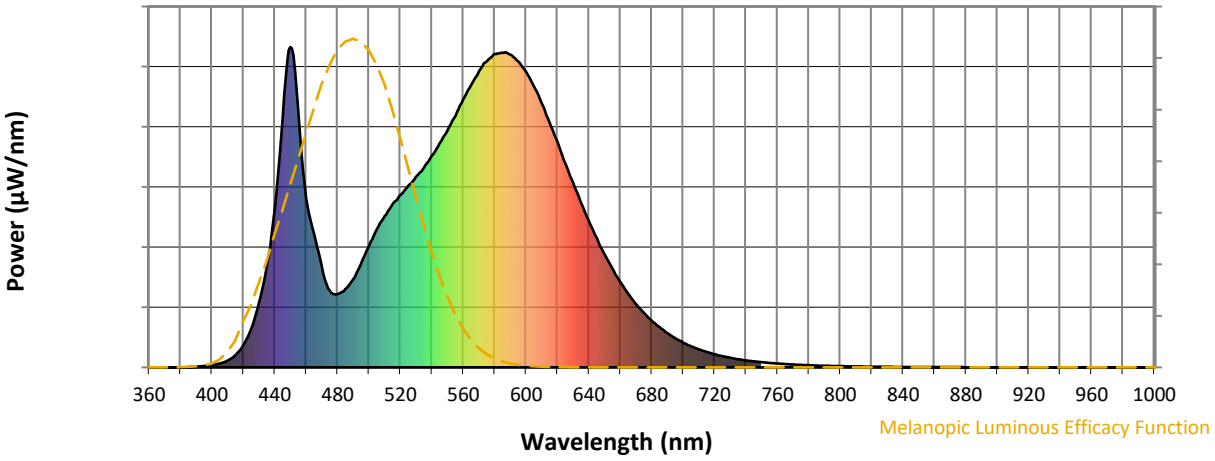


Scotopic Lumens: NR **S/P: 1.59**

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			

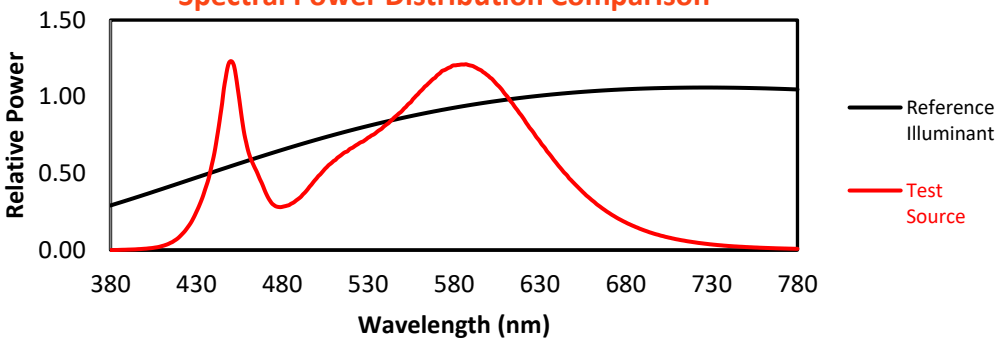
REPORT NUMBER: SP1-2501-332-1

TM-30-18

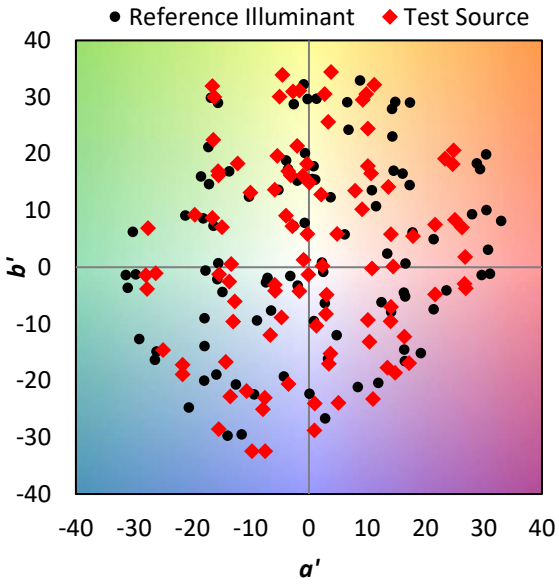
Summary

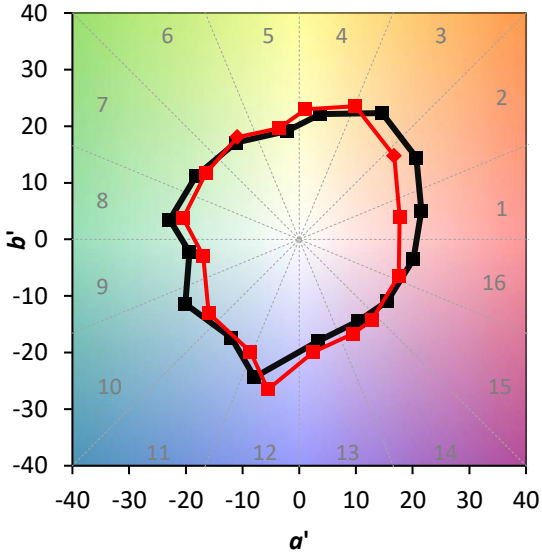
R_f = 77.5
R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

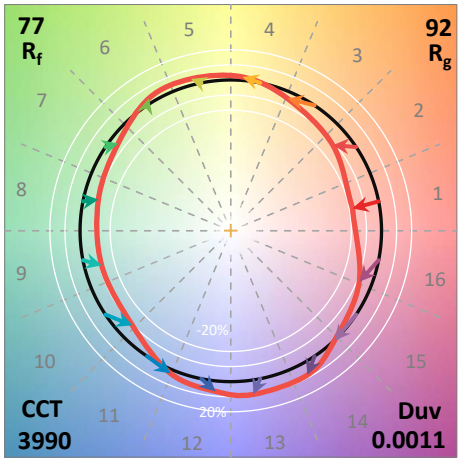
Spectral Power Distribution Comparison

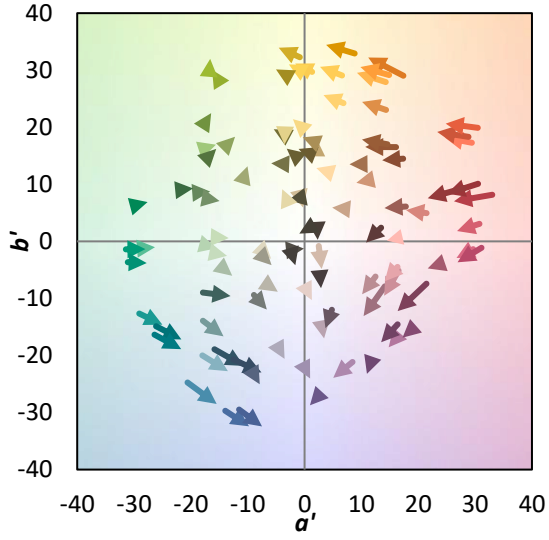


Color Vector Graphics







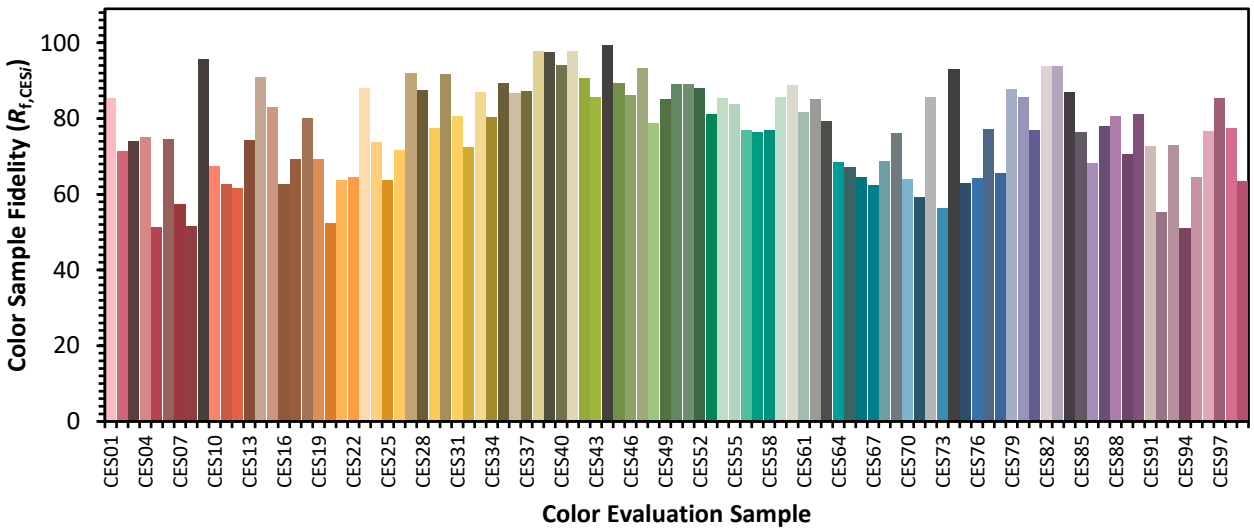


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

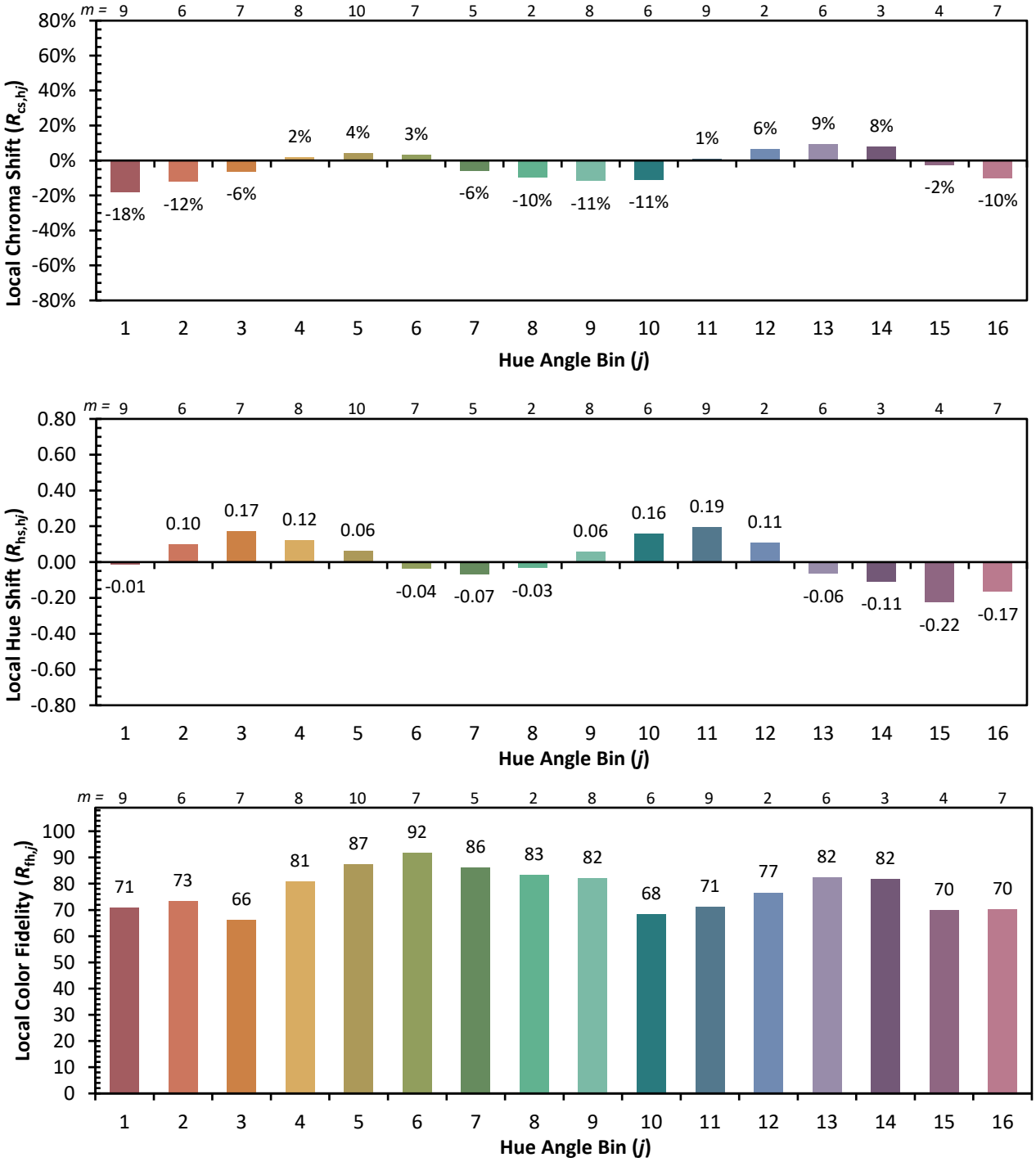
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

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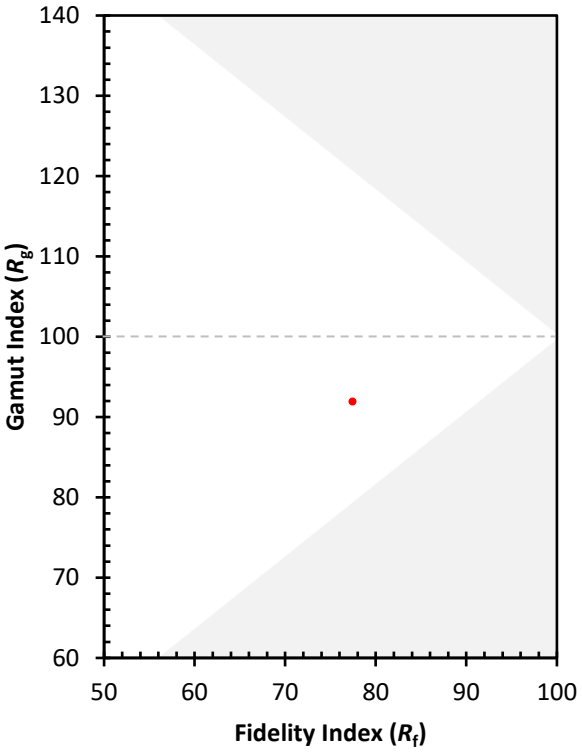
Color Rendition by Hue-Angle Bin

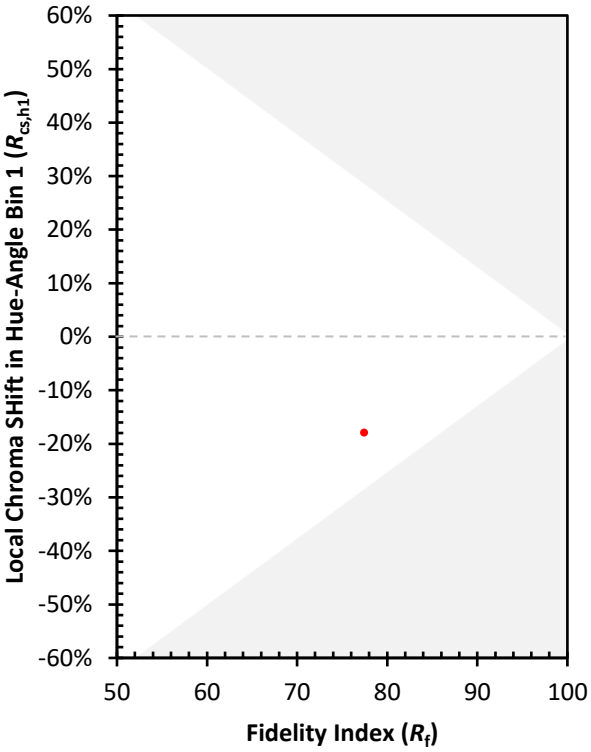


REPORT NUMBER: SP1-2501-332-1

TM-30-18

Measure Comparisons





(END OF REPORT)