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: P1045806

Luminaire Tested: **FFX-CLB-80-740-U-FR-T5-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:	P1045806
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-740-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8832.5 lumens
Efficiency:	N/A
Efficacy:	108.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G3

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

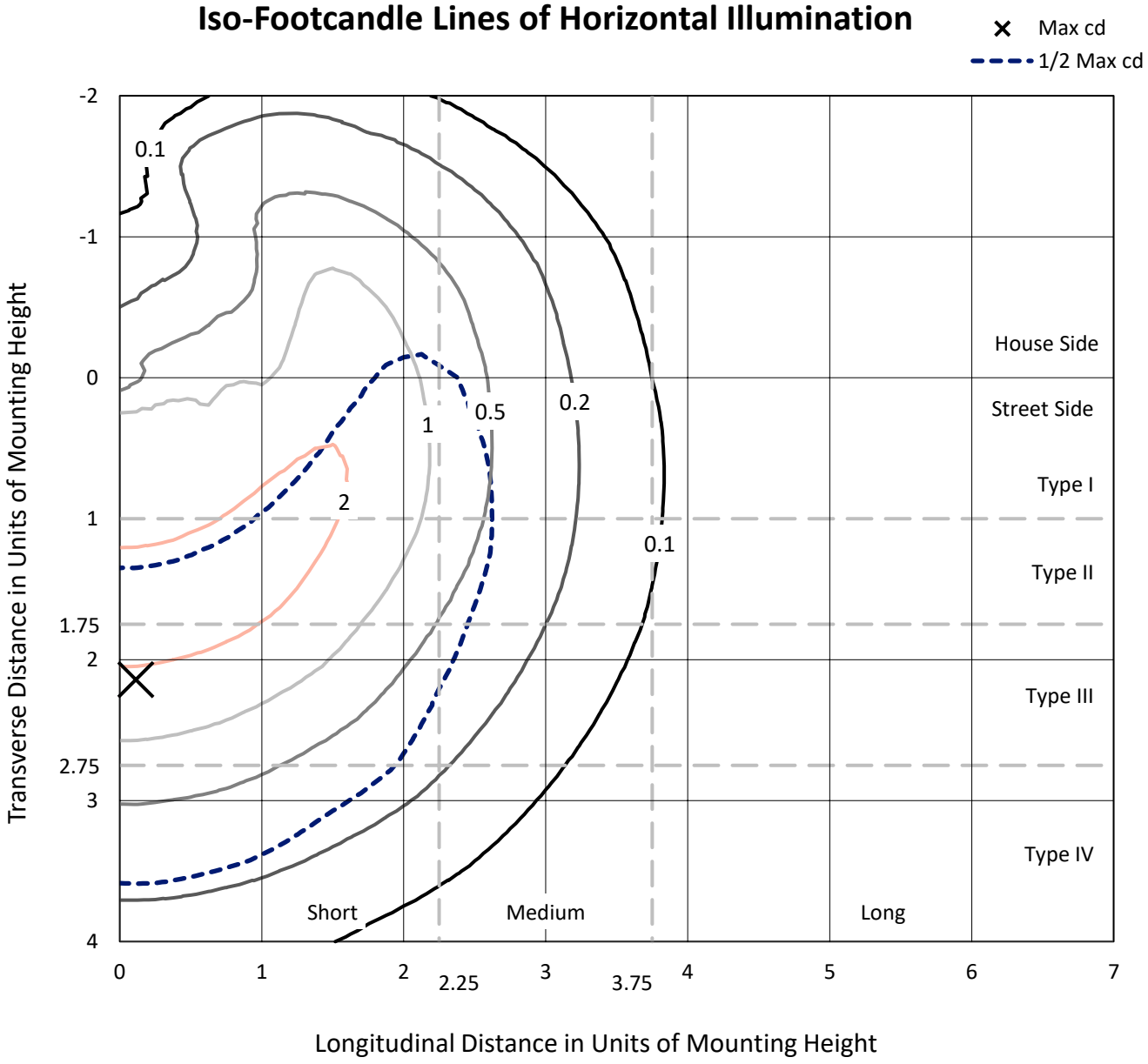


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Iso-Footcandle Lines of Horizontal Illumination



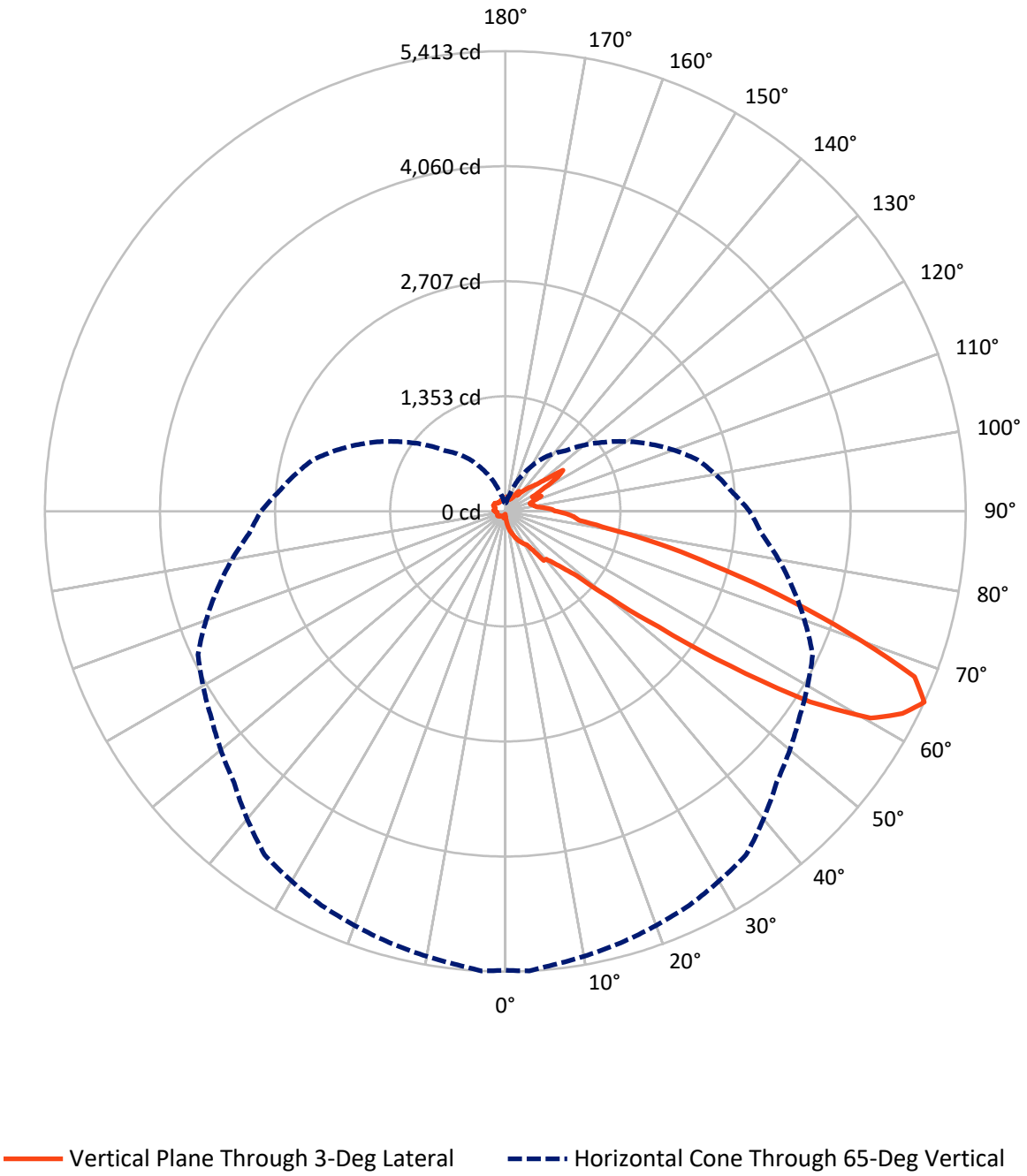
Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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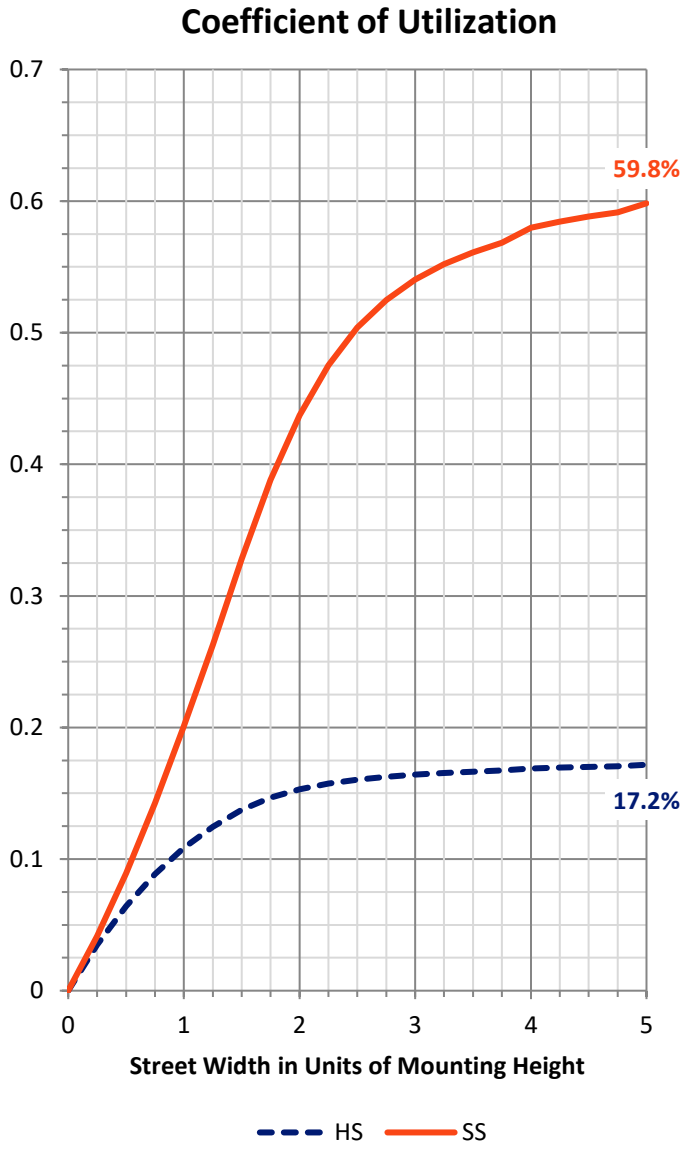
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.6	612.9	2187.5
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	5504.3	1140.7	6644.9
	% Fixture	62.3	12.9	75.2
Total	Lumens	7078.9	1753.6	8832.5
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.1
10°-20°	50.0	0.6
20°-30°	110.2	1.2
30°-40°	219.9	2.5
40°-50°	474.7	5.4
50°-60°	1623.2	18.4
60°-70°	2637.6	29.9
70°-80°	1419.3	16.1
80°-90°	534.8	6.1
90°-100°	337.4	3.8
100°-110°	239.8	2.7
110°-120°	264.6	3.0
120°-130°	404.3	4.6
130°-140°	242.5	2.7
140°-150°	133.9	1.5
150°-160°	74.5	0.8
160°-170°	41.3	0.5
170°-180°	15.2	0.2
0°-90°	7078.9	80.1
0°-180°	8832.5	100.0



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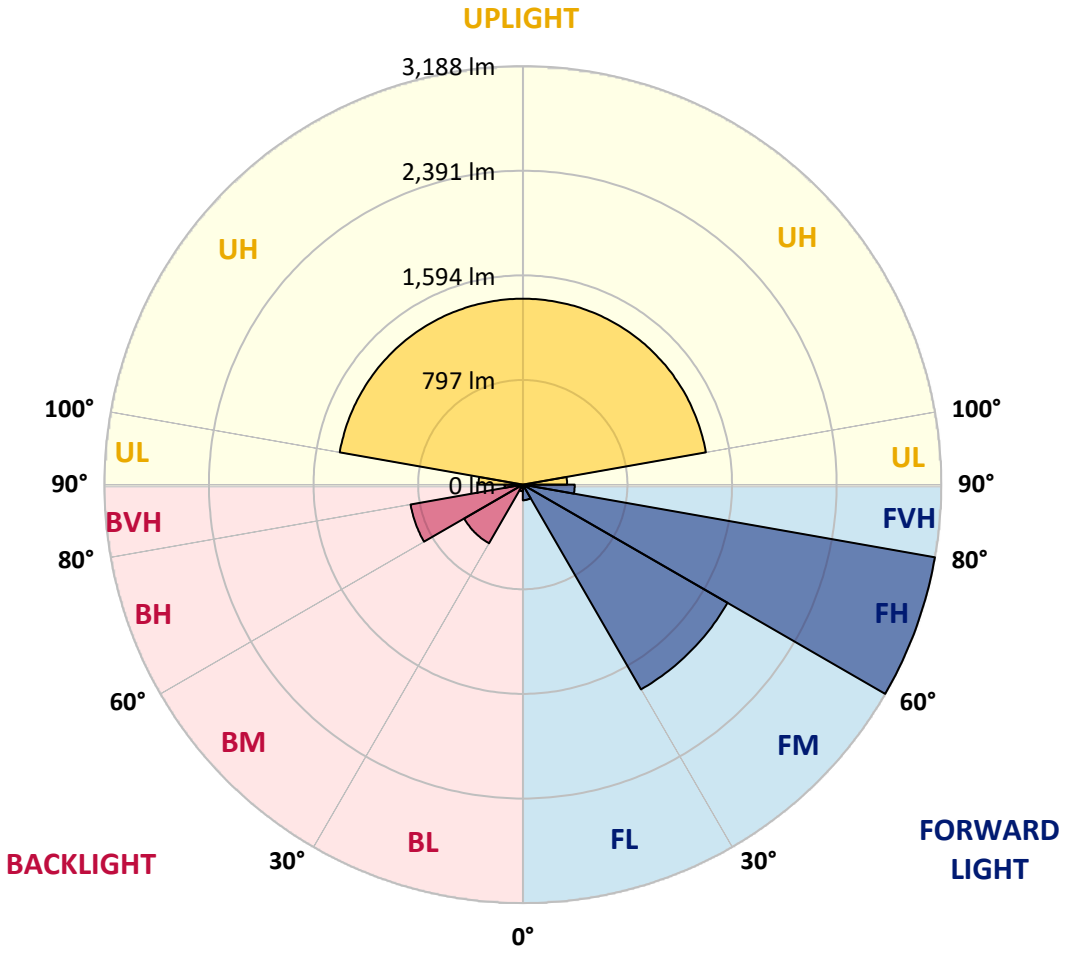
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	119.1	1.3			
FM	(30°-60°)	1801.5	20.4			
FH	(60°-80°)	3188.4	36.1			G2/5000
FVH	(80°-90°)	395.2	4.5			G3/500
BL	(0°-30°)	50.3	0.6	B0/110		
BM	(30°-60°)	516.3	5.8	B1/1000		
BH	(60°-80°)	868.5	9.8	B2/1000		G2/1000
BVH	(80°-90°)	139.6	1.6			G2/225
UL	(90°-100°)	337.4	3.8		U3/500	
UH	(100°-180°)	1416.2	16.0		U5	

BUG Rating: B2-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	70.2	71.2	71.2	71.2	73.2	74.2	73.2	70.2	66.3	64.3	62.3
5°	101.9	103.9	102.9	102.9	100.9	100.9	97.9	96.0	94.0	87.1	80.1
7.5°	141.5	139.5	138.5	136.5	137.5	132.6	128.6	128.6	125.7	118.7	107.8
10°	183.0	183.0	180.1	179.1	177.1	175.1	168.2	164.2	164.2	152.4	139.5
12.5°	228.5	227.6	228.5	226.6	223.6	218.7	210.7	201.8	196.9	186.0	167.2
15°	258.2	257.2	257.2	256.3	254.3	249.3	243.4	234.5	221.6	210.7	192.9
17.5°	289.9	287.9	287.9	283.0	279.0	273.1	268.1	259.2	243.4	223.6	206.8
20°	324.5	324.5	324.5	317.6	309.7	301.8	294.8	286.9	275.1	245.4	221.6
22.5°	357.2	358.2	357.2	350.2	343.3	330.5	319.6	309.7	297.8	268.1	239.4
25°	388.8	390.8	389.8	389.8	380.9	364.1	349.3	334.4	326.5	296.8	257.2
27.5°	416.5	417.5	418.5	423.5	418.5	399.7	376.0	358.2	352.2	319.6	272.1
30°	443.2	446.2	446.2	451.2	450.2	429.4	400.7	380.9	369.0	337.4	286.9
32.5°	469.0	471.0	471.9	483.8	482.8	455.1	430.4	408.6	388.8	365.1	312.6
35°	562.0	559.0	573.8	582.8	575.8	551.1	521.4	480.8	453.1	425.4	369.0
37.5°	735.1	733.1	733.1	713.4	685.6	657.0	649.0	606.5	572.9	537.2	460.1
40°	740.1	740.1	743.0	764.8	778.7	742.0	707.4	665.9	658.9	622.3	528.3
42.5°	812.3	820.2	828.1	843.0	867.7	844.0	804.4	738.1	706.4	668.8	588.7
45°	935.0	946.8	942.9	948.8	942.9	922.1	919.1	882.5	835.0	762.8	655.0
47.5°	1137.8	1130.9	1126.9	1150.7	1189.2	1150.7	1141.8	1083.4	992.4	900.3	777.7
50°	1636.5	1606.8	1637.4	1632.5	1625.6	1590.0	1563.2	1504.9	1356.5	1207.1	1030.0
52.5°	2304.3	2255.8	2283.5	2302.3	2282.5	2232.1	2151.9	2038.1	1838.3	1645.4	1411.9
55°	3274.9	3207.6	3216.5	3240.3	3254.1	3139.3	3024.6	2773.3	2473.5	2175.7	1922.4
57.5°	4346.4	4225.7	4304.8	4172.3	4117.9	3913.0	3816.1	3561.8	3209.6	2811.9	2403.2
60°	4949.9	4937.1	4922.2	4819.3	4761.9	4532.4	4304.8	4066.4	3750.8	3280.8	2802.9
62.5°	5212.1	5239.8	5218.1	5164.6	5113.2	4911.3	4515.6	4232.6	3976.4	3493.5	3016.7
65°	5397.1	5413.0	5376.4	5252.7	5113.2	4933.1	4510.6	4221.7	3987.3	3500.5	3025.6
67.5°	5185.4	5188.4	5143.9	4983.6	4700.6	4542.3	4132.7	3880.4	3650.9	3235.3	2791.1
70°	4271.2	4280.1	4252.4	4109.9	3872.5	3735.0	3340.2	3081.0	2907.8	2620.9	2293.4
72.5°	3329.3	3367.9	3328.3	3271.9	3046.3	2944.4	2679.3	2469.5	2310.2	2040.1	1776.0
75°	2503.2	2512.1	2513.1	2449.7	2331.0	2308.3	2126.2	1987.7	1849.2	1627.6	1433.6
77.5°	1815.5	1855.1	1841.3	1830.4	1675.0	1683.9	1611.7	1529.6	1442.5	1295.1	1156.6
80°	1205.1	1225.9	1201.1	1207.1	1186.3	1181.3	1114.1	1058.6	1005.2	937.0	882.5
82.5°	878.6	874.6	872.6	861.8	845.9	848.9	815.3	747.0	682.7	668.8	618.4
85°	812.3	809.3	806.4	786.6	752.9	732.2	713.4	685.6	646.1	583.7	518.4
87.5°	710.4	711.4	704.4	683.7	661.9	656.0	641.1	623.3	603.5	557.0	499.6
90°	584.7	581.8	582.8	570.9	574.8	572.9	550.1	528.3	520.4	480.8	447.2
92.5°	540.2	537.2	538.2	529.3	515.5	512.5	487.8	461.1	449.2	424.4	398.7
95°	451.2	451.2	447.2	443.2	436.3	426.4	413.6	395.8	386.9	367.1	341.3
97.5°	378.9	375.0	377.9	371.0	365.1	361.1	351.2	333.4	324.5	309.7	289.9
100°	352.2	352.2	351.2	348.3	333.4	325.5	314.6	297.8	290.9	278.0	263.2
102.5°	337.4	336.4	335.4	332.4	318.6	304.7	290.9	281.0	273.1	262.2	246.4
105°	308.7	308.7	310.7	309.7	299.8	290.9	276.0	267.1	259.2	248.3	233.5
107.5°	305.7	304.7	304.7	292.9	280.0	275.1	264.2	256.3	249.3	238.4	221.6
110°	350.2	352.2	355.2	335.4	304.7	291.9	276.0	267.1	259.2	245.4	227.6

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	459.1	*459.1*	457.1	446.2	392.8	357.2	349.3	326.5	313.6	292.9	268.1
115°	412.6	*413.6*	412.6	415.5	411.6	367.1	375.0	337.4	359.1	310.7	293.8
117.5°	360.1	*359.1*	355.2	356.2	360.1	388.8	326.5	317.6	326.5	283.0	268.1
120°	502.6	*493.7*	502.6	466.0	460.1	465.0	429.4	422.5	384.9	332.4	292.9
122.5°	740.1	*726.2*	746.0	733.1	743.0	710.4	675.8	647.1	605.5	517.5	438.3
125°	836.0	*833.1*	828.1	810.3	794.5	780.6	786.6	797.5	774.7	703.5	611.4
127.5°	615.4	*623.3*	620.3	656.0	690.6	682.7	661.9	671.8	683.7	679.7	625.3
130°	490.7	*497.7*	501.6	536.3	565.9	565.9	532.3	523.4	533.3	554.1	533.3
132.5°	430.4	*432.4*	434.3	446.2	471.0	482.8	462.0	448.2	452.2	463.0	445.2
135°	387.8	*386.9*	383.9	376.0	377.9	389.8	398.7	396.7	393.8	393.8	383.9
137.5°	336.4	*335.4*	335.4	323.5	318.6	328.5	341.3	353.2	345.3	334.4	322.5
140°	280.0	*279.0*	280.0	286.9	288.9	289.9	296.8	296.8	296.8	295.8	290.9
142.5°	232.5	*233.5*	235.5	253.3	262.2	262.2	253.3	245.4	244.4	250.3	251.3
145°	285.9	*285.9*	286.9	285.9	280.0	274.1	268.1	268.1	262.2	248.3	241.4
147.5°	255.3	*259.2*	256.3	259.2	261.2	262.2	261.2	264.2	265.2	257.2	246.4
150°	200.8	*199.9*	197.9	200.8	205.8	211.7	213.7	215.7	216.7	216.7	216.7
152.5°	174.1	*175.1*	174.1	177.1	180.1	181.1	184.0	184.0	185.0	184.0	182.0
155°	169.2	*169.2*	169.2	169.2	170.2	172.2	176.1	178.1	176.1	173.1	168.2
157.5°	157.3	*157.3*	157.3	158.3	160.3	162.3	165.2	167.2	167.2	165.2	161.3
160°	150.4	*150.4*	150.4	150.4	152.4	154.3	156.3	158.3	158.3	157.3	154.3
162.5°	142.5	*142.5*	142.5	143.5	145.4	147.4	149.4	151.4	150.4	150.4	148.4
165°	141.5	*141.5*	141.5	142.5	144.5	147.4	148.4	148.4	149.4	149.4	149.4
167.5°	145.4	*145.4*	146.4	146.4	148.4	149.4	151.4	152.4	153.4	152.4	152.4
170°	151.4	*151.4*	151.4	152.4	153.4	153.4	154.3	154.3	155.3	155.3	155.3
172.5°	159.3	*159.3*	159.3	159.3	158.3	158.3	158.3	158.3	159.3	158.3	159.3
175°	168.2	*168.2*	168.2	167.2	166.2	166.2	165.2	165.2	164.2	163.2	163.2
177.5°	169.2	*169.2*	169.2	169.2	168.2	167.2	167.2	166.2	165.2	165.2	165.2
180°	165.2	*165.2*	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
2.5°	60.4	58.4	53.4	49.5	46.5	42.5	39.6	36.6	34.6	33.6	32.6
5°	79.2	75.2	69.3	63.3	58.4	51.4	47.5	40.6	35.6	33.6	32.6
7.5°	103.9	100.9	97.9	97.0	95.0	86.1	73.2	63.3	61.3	59.4	61.3
10°	132.6	126.6	117.7	122.7	122.7	105.9	88.1	78.2	77.2	81.1	82.1
12.5°	159.3	151.4	140.5	139.5	128.6	105.9	87.1	77.2	76.2	77.2	78.2
15°	184.0	175.1	163.2	153.4	136.5	112.8	91.0	78.2	75.2	78.2	78.2
17.5°	197.9	189.0	172.2	153.4	133.6	111.8	90.0	76.2	69.3	65.3	65.3
20°	214.7	207.8	185.0	161.3	134.6	110.8	89.0	74.2	66.3	62.3	61.3
22.5°	229.5	221.6	196.9	171.2	140.5	110.8	86.1	73.2	66.3	62.3	61.3
25°	247.3	235.5	210.7	182.0	145.4	110.8	86.1	74.2	67.3	63.3	62.3
27.5°	259.2	245.4	221.6	190.0	151.4	112.8	89.0	75.2	67.3	63.3	63.3
30°	271.1	258.2	230.5	200.8	158.3	117.7	94.0	79.2	70.2	65.3	65.3
32.5°	294.8	278.0	244.4	209.8	164.2	121.7	98.9	83.1	73.2	68.3	68.3
35°	348.3	324.5	284.0	235.5	172.2	125.7	103.9	88.1	75.2	69.3	69.3
37.5°	429.4	399.7	350.2	284.0	191.9	131.6	107.8	90.0	77.2	72.2	71.2
40°	482.8	446.2	386.9	322.5	220.6	141.5	112.8	93.0	79.2	73.2	72.2
42.5°	547.1	502.6	423.5	334.4	235.5	162.3	122.7	97.9	82.1	74.2	73.2
45°	605.5	567.9	493.7	390.8	278.0	192.9	140.5	106.9	87.1	77.2	76.2
47.5°	724.2	665.9	566.9	461.1	331.4	239.4	171.2	120.7	95.0	81.1	79.2
50°	955.8	895.4	775.7	611.4	428.4	304.7	220.6	146.4	104.9	85.1	82.1
52.5°	1298.1	1187.3	1053.7	832.1	607.5	440.3	312.6	206.8	124.7	89.0	84.1
55°	1756.2	1692.9	1456.4	1174.4	865.7	658.9	480.8	321.6	186.0	94.0	85.1
57.5°	2281.5	2155.9	1940.2	1589.0	1157.6	839.0	650.0	478.9	274.1	109.8	90.0
60°	2619.9	2489.3	2242.0	1886.8	1408.9	1000.3	741.1	533.3	310.7	112.8	94.0
62.5°	2838.6	2655.5	2341.9	1926.3	1482.1	1066.6	782.6	506.6	265.2	109.8	97.0
65°	*2872.2*	*2673.3*	*2341.9*	*1871.9*	*1415.8*	*1012.1*	*756.9*	*468.0*	*208.8*	*104.9*	*100.9*
67.5°	2673.3	2457.7	2182.6	1716.6	1270.4	867.7	650.0	381.9	158.3	101.9	99.9
70°	2164.8	2029.2	1778.9	1399.0	1014.1	710.4	517.5	292.9	128.6	98.9	97.9
72.5°	1654.3	1556.3	1381.2	1090.3	781.6	548.1	394.8	230.5	115.8	97.0	96.0
75°	1316.9	1227.8	1085.4	840.0	596.6	422.5	294.8	177.1	105.9	97.0	95.0
77.5°	1086.4	1008.2	879.6	665.9	435.3	315.6	223.6	143.5	103.9	97.0	96.0
80°	836.0	779.6	683.7	483.8	311.7	236.5	178.1	127.6	103.9	98.9	97.9
82.5°	592.6	570.9	498.7	377.0	262.2	205.8	164.2	125.7	105.9	100.9	99.9
85°	492.7	467.0	415.5	328.5	244.4	198.9	162.3	128.6	110.8	106.9	105.9
87.5°	474.9	458.1	407.6	317.6	234.5	190.0	155.3	125.7	110.8	108.8	109.8
90°	429.4	410.6	372.0	295.8	224.6	189.0	158.3	130.6	114.8	112.8	111.8
92.5°	389.8	378.9	345.3	285.9	231.5	195.9	167.2	142.5	129.6	125.7	125.7
95°	333.4	322.5	303.7	262.2	220.6	191.9	167.2	145.4	134.6	132.6	131.6
97.5°	284.0	277.0	261.2	228.5	195.9	172.2	150.4	133.6	124.7	121.7	121.7
100°	259.2	253.3	240.4	218.7	193.9	174.1	156.3	141.5	133.6	131.6	131.6
102.5°	241.4	236.5	224.6	208.8	187.0	171.2	156.3	143.5	134.6	132.6	133.6
105°	226.6	221.6	209.8	193.9	176.1	159.3	148.4	138.5	128.6	125.7	125.7
107.5°	215.7	210.7	200.8	185.0	170.2	155.3	143.5	135.5	127.6	125.7	125.7
110°	220.6	213.7	198.9	182.0	169.2	156.3	146.4	138.5	132.6	129.6	129.6

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

Scaled Data Report

REPORT NUMBER: P1045806
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	258.2	247.3	222.6	198.9	182.0	167.2	156.3	145.4	140.5	136.5	136.5
115°	283.0	272.1	247.3	218.7	193.9	173.1	158.3	149.4	143.5	147.4	145.4
117.5°	258.2	250.3	231.5	210.7	191.0	173.1	160.3	154.3	150.4	155.3	157.3
120°	284.0	269.1	254.3	230.5	193.9	169.2	160.3	158.3	158.3	154.3	154.3
122.5°	405.7	380.9	325.5	284.9	234.5	206.8	190.0	174.1	158.3	152.4	151.4
125°	567.9	521.4	451.2	379.9	310.7	252.3	203.8	174.1	159.3	150.4	148.4
127.5°	597.6	557.0	492.7	406.6	312.6	246.4	202.8	180.1	163.2	153.4	152.4
130°	504.6	484.8	427.4	353.2	281.0	229.5	200.8	180.1	164.2	155.3	153.4
132.5°	428.4	414.6	361.1	301.8	250.3	212.7	187.0	164.2	149.4	141.5	139.5
135°	368.1	359.1	312.6	270.1	231.5	200.8	174.1	152.4	140.5	135.5	134.6
137.5°	315.6	306.7	275.1	245.4	215.7	189.0	167.2	148.4	137.5	134.6	133.6
140°	283.0	275.1	255.3	223.6	194.9	167.2	151.4	139.5	133.6	131.6	130.6
142.5°	246.4	237.5	215.7	192.9	173.1	151.4	140.5	135.5	132.6	130.6	129.6
145°	233.5	227.6	202.8	182.0	163.2	152.4	146.4	139.5	133.6	129.6	128.6
147.5°	236.5	229.5	207.8	188.0	171.2	159.3	149.4	139.5	131.6	127.6	126.6
150°	211.7	209.8	196.9	181.1	165.2	152.4	142.5	134.6	129.6	128.6	128.6
152.5°	177.1	176.1	170.2	161.3	150.4	140.5	133.6	129.6	129.6	131.6	132.6
155°	166.2	163.2	159.3	153.4	144.5	137.5	132.6	130.6	131.6	133.6	133.6
157.5°	160.3	157.3	153.4	148.4	143.5	137.5	133.6	132.6	134.6	136.5	136.5
160°	152.4	150.4	147.4	142.5	138.5	135.5	133.6	133.6	134.6	135.5	135.5
162.5°	147.4	145.4	142.5	139.5	137.5	136.5	135.5	134.6	135.5	136.5	136.5
165°	147.4	146.4	142.5	139.5	138.5	138.5	138.5	138.5	138.5	137.5	137.5
167.5°	151.4	150.4	147.4	145.4	144.5	145.4	145.4	144.5	143.5	141.5	141.5
170°	155.3	154.3	153.4	152.4	151.4	152.4	152.4	152.4	151.4	151.4	150.4
172.5°	159.3	158.3	157.3	156.3	156.3	156.3	157.3	158.3	158.3	158.3	158.3
175°	163.2	163.2	161.3	160.3	160.3	160.3	161.3	161.3	162.3	162.3	162.3
177.5°	165.2	165.2	165.2	165.2	166.2	165.2	165.2	164.2	164.2	164.2	164.2
180°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2

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

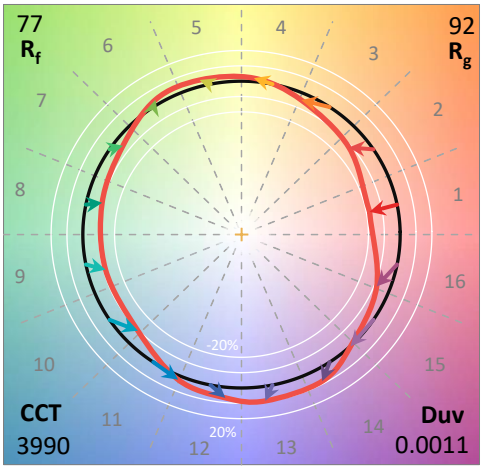
Test Information

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

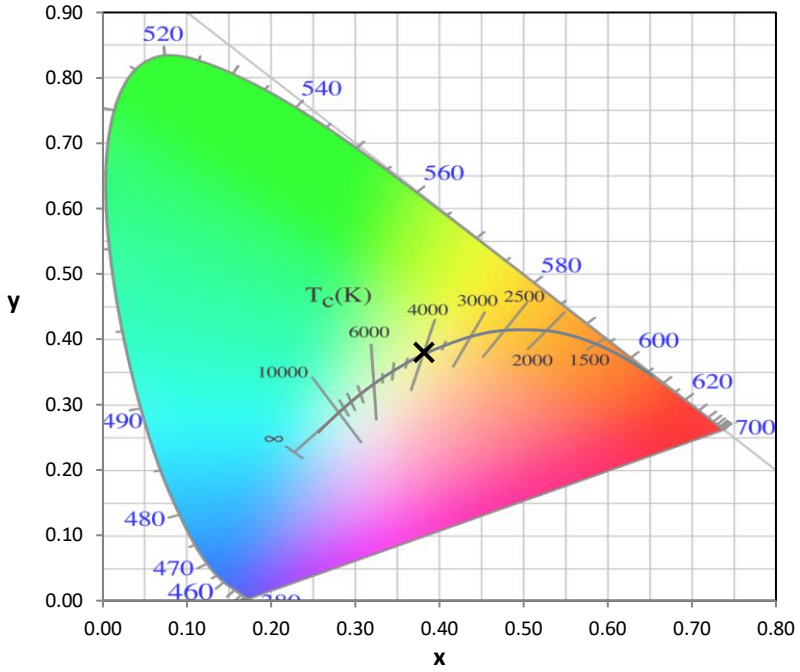
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

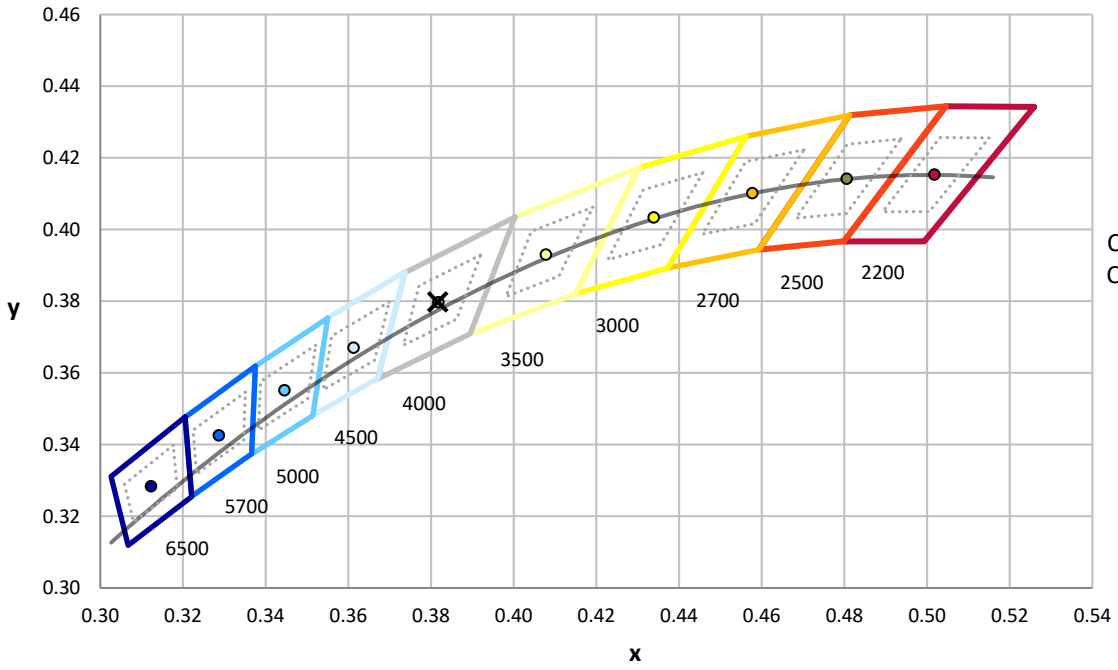
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

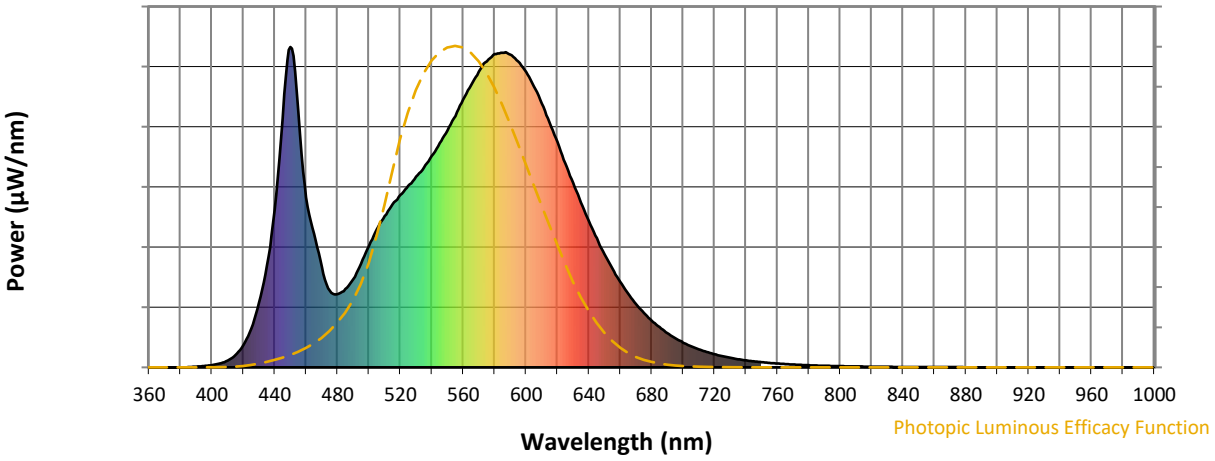


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

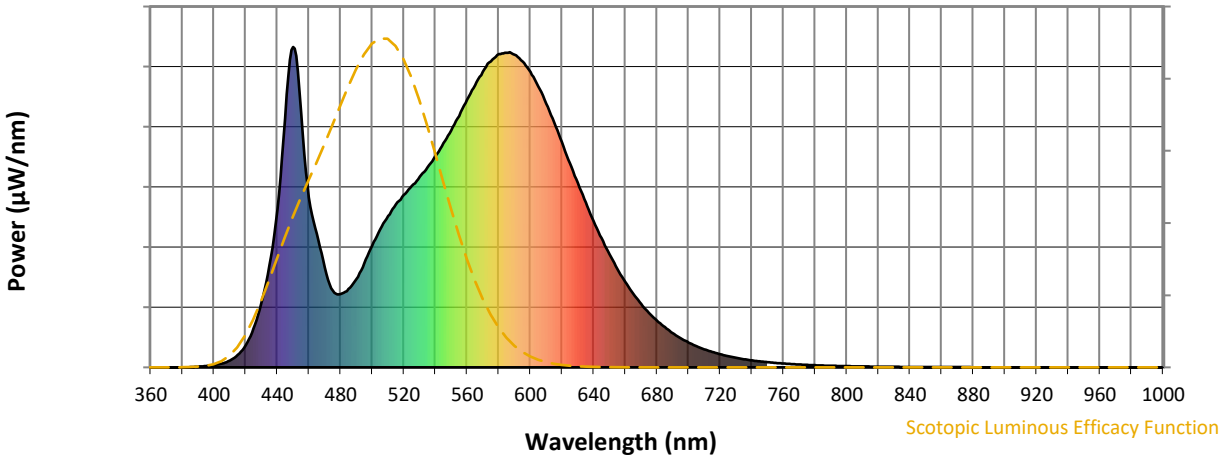


Photopic Lumens: NR

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

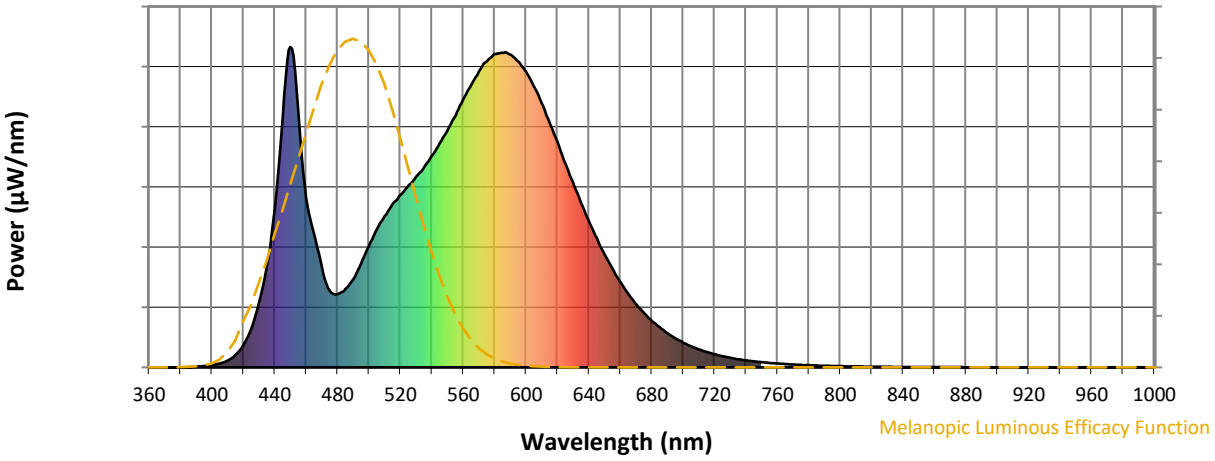


Scotopic Lumens: NR **S/P: 1.59**

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			

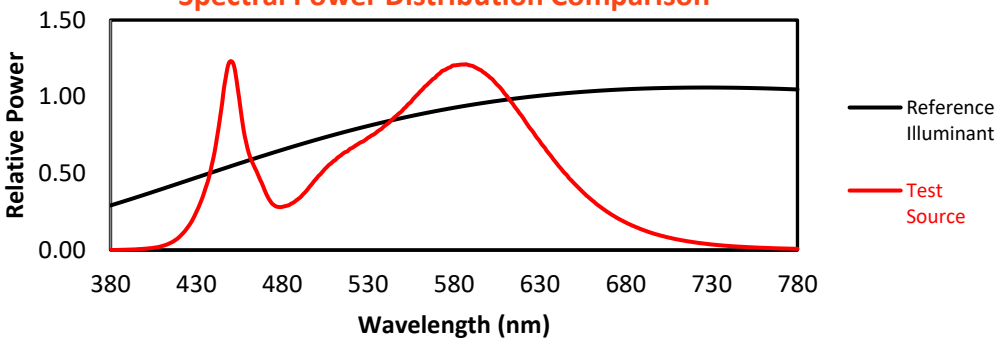
REPORT NUMBER: SP1-2501-332-1

TM-30-18

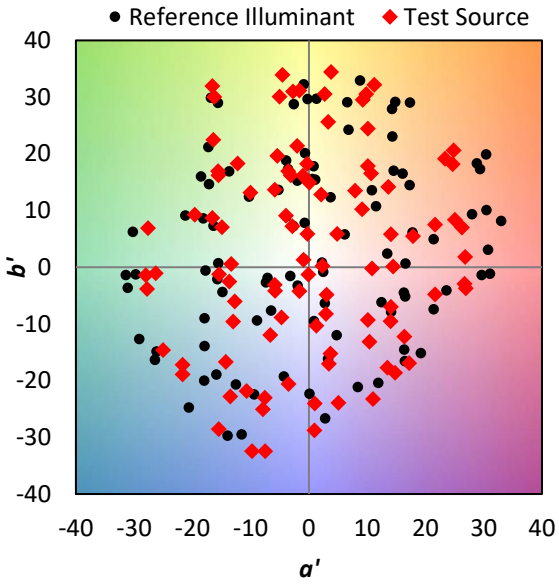
Summary

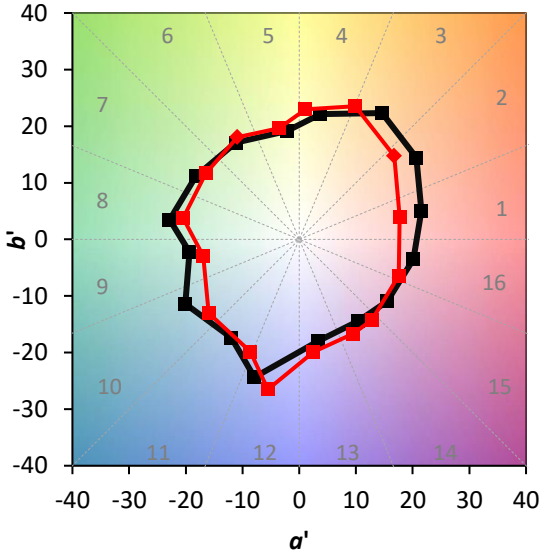
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

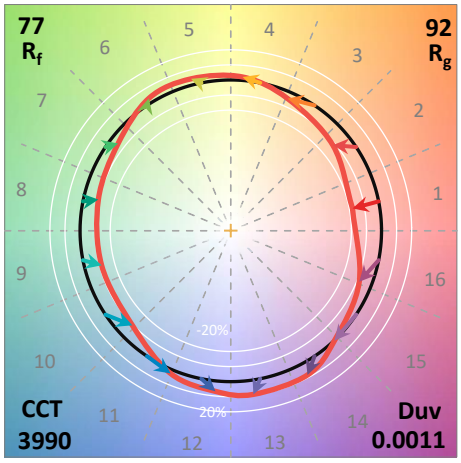
Spectral Power Distribution Comparison

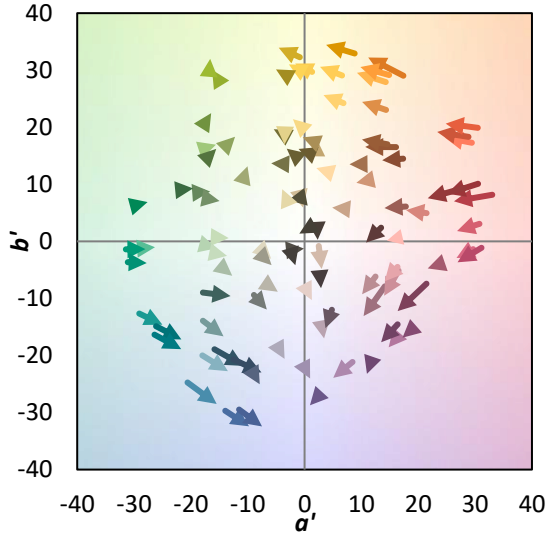


Color Vector Graphics







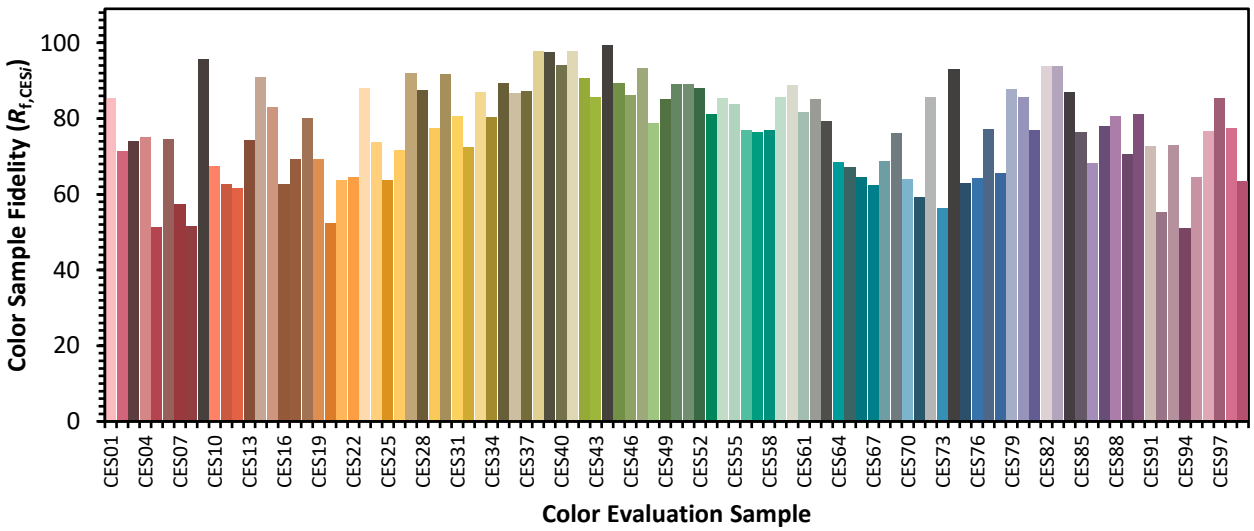


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

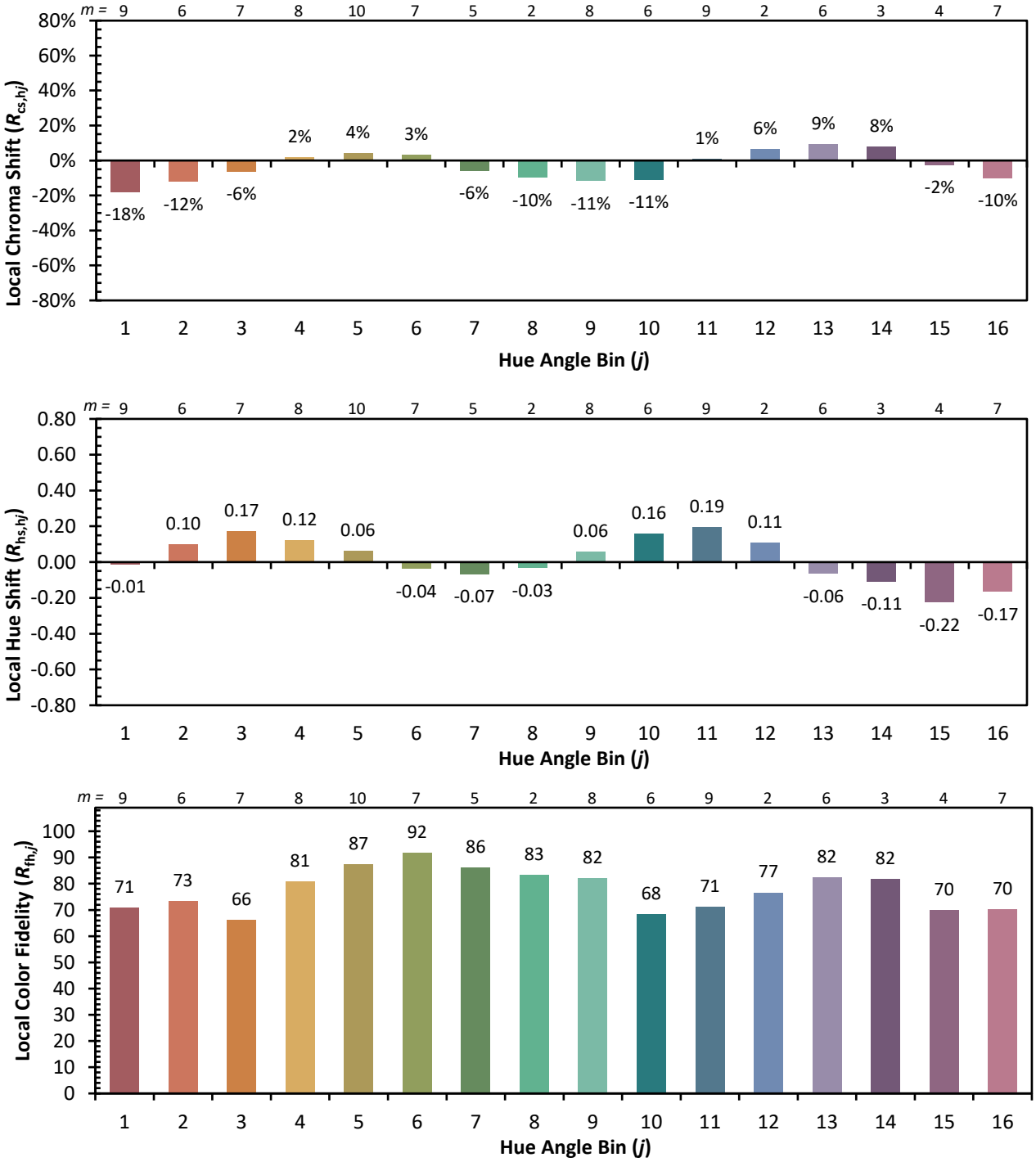
CES01 = 85	CES26 = 72	CES51 = 89	CES76 = 64
CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82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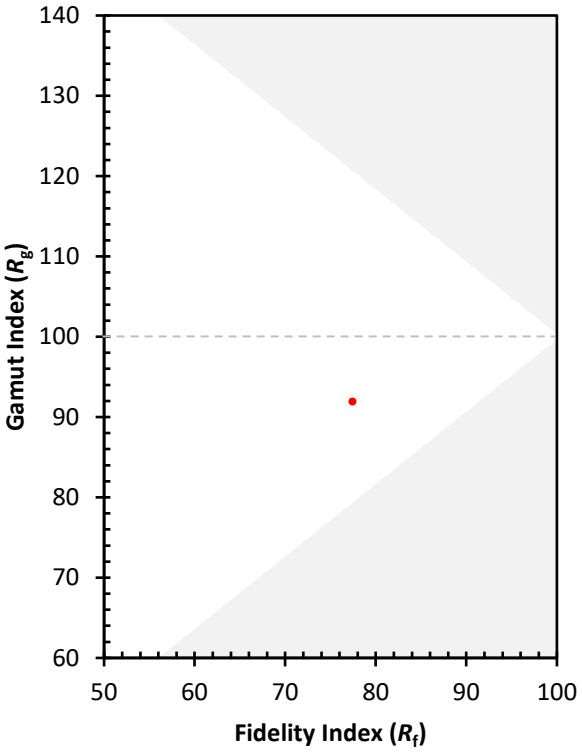
Color Rendition by Hue-Angle Bin

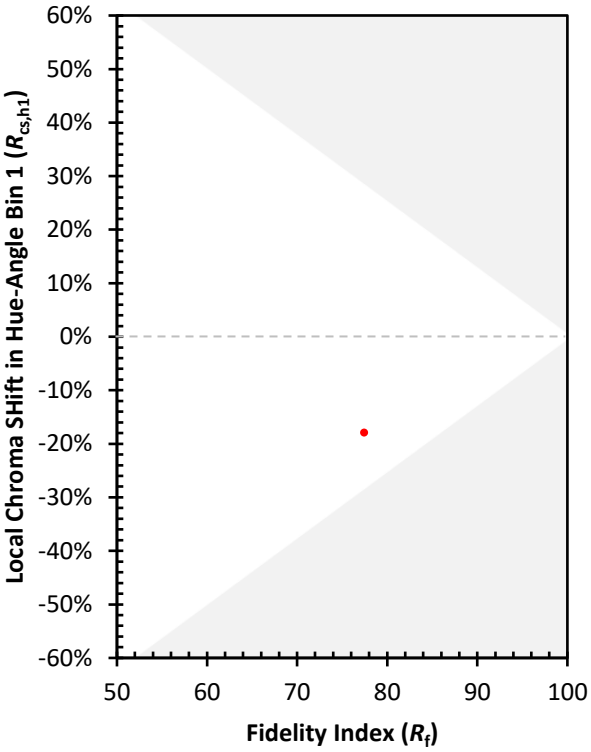


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Measure Comparisons





(END OF REPORT)