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: P1045938

Luminaire Tested: **FFX-CLB-20-730-U-FG-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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:	P1045938
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-FG-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FROSTED GLOBE AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2303 lumens
Efficiency:	N/A
Efficacy:	116.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U4 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

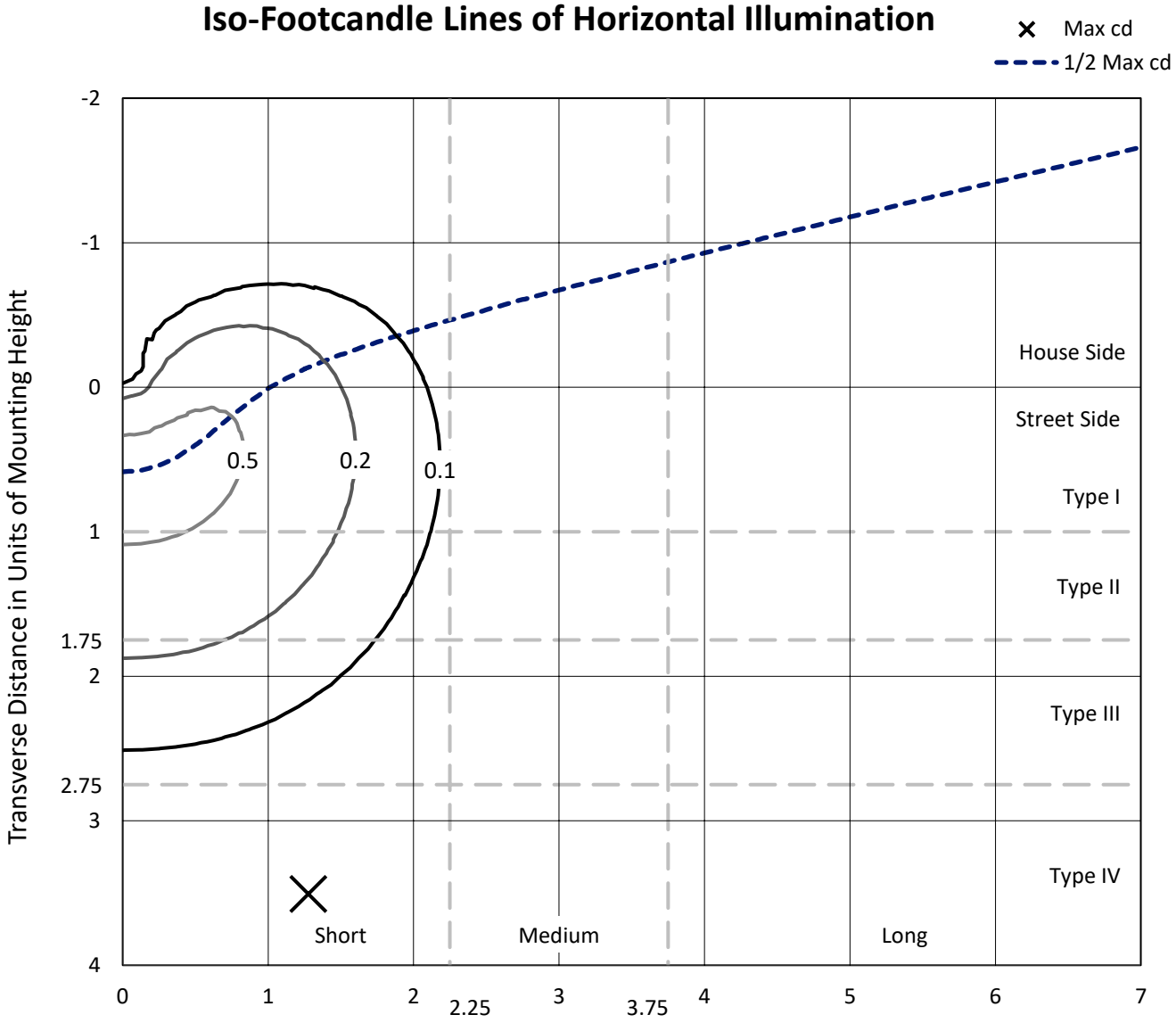


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



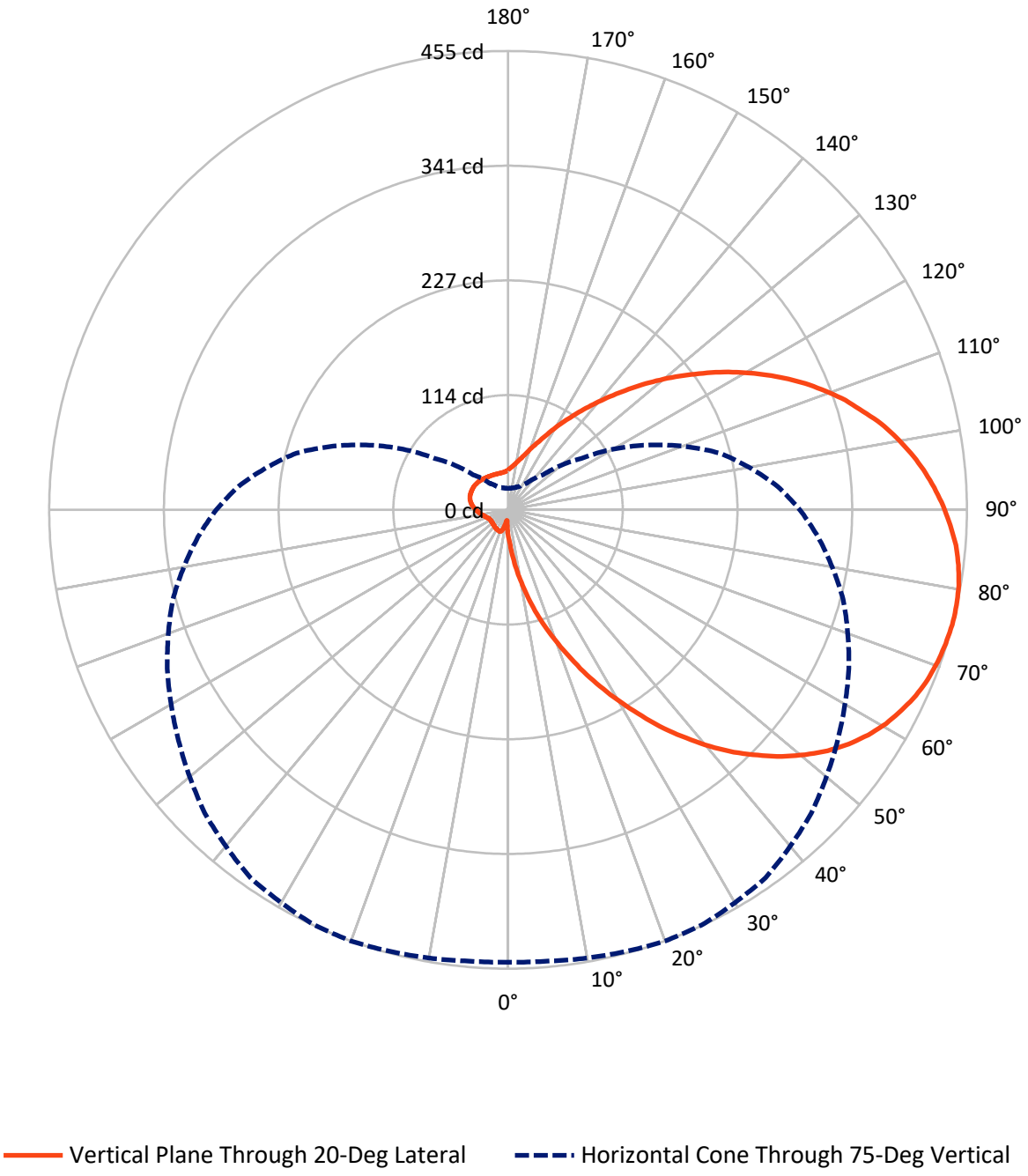
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

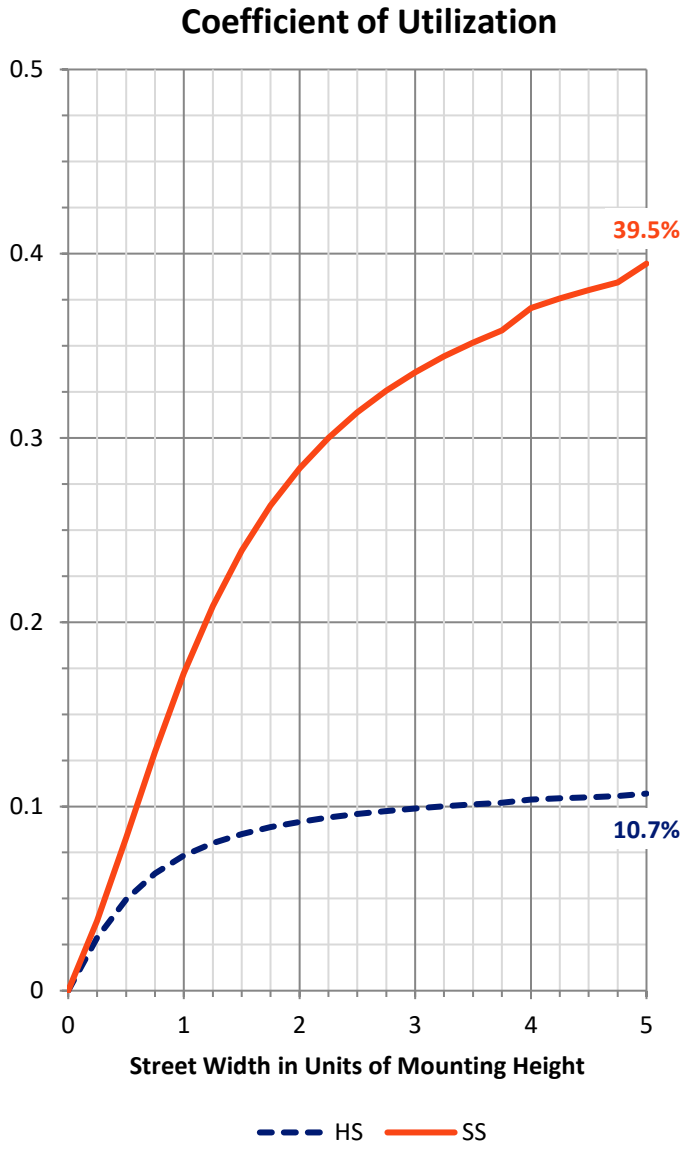
REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.3	253.3	519.5
	% Fixture	11.6	11.0	22.6
Street Side	Lumens	1045.5	737.9	1783.5
	% Fixture	45.4	32.0	77.4
Total	Lumens	1311.8	991.2	2303.0
	% Fixture	57.0	43.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	19.2	0.8
20°-30°	50.9	2.2
30°-40°	98.3	4.3
40°-50°	154.0	6.7
50°-60°	205.9	8.9
60°-70°	243.9	10.6
70°-80°	265.8	11.5
80°-90°	270.6	11.7
90°-100°	256.6	11.1
100°-110°	226.9	9.9
110°-120°	184.2	8.0
120°-130°	135.6	5.9
130°-140°	89.9	3.9
140°-150°	53.0	2.3
150°-160°	28.0	1.2
160°-170°	13.2	0.6
170°-180°	3.9	0.2
0°-90°	1311.8	57.0
0°-180°	2303.0	100.0



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

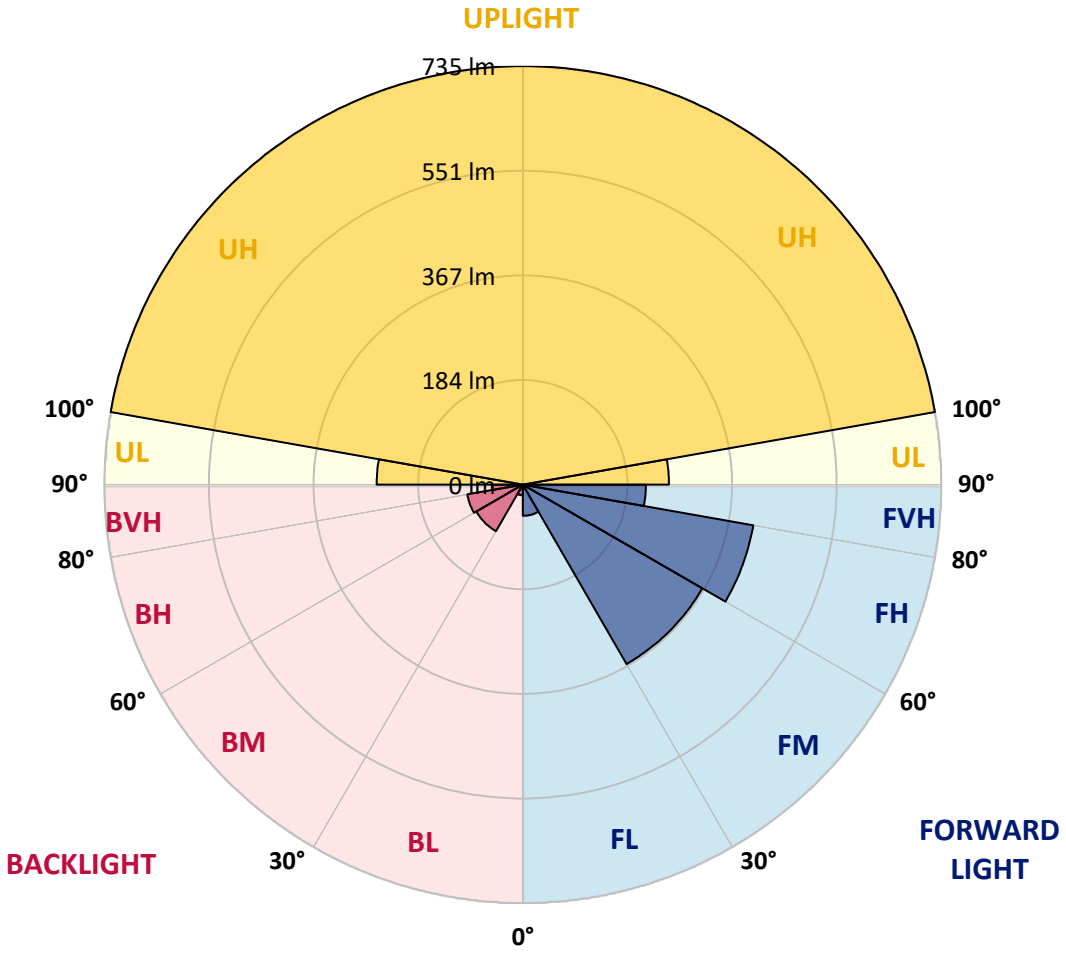
Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	54.8	2.4			
FM	(30°-60°)	363.9	15.8			
FH	(60°-80°)	410.8	17.8			G0/660
FVH	(80°-90°)	216.0	9.4			G2/225
BL	(0°-30°)	18.6	0.8	B0/110		
BM	(30°-60°)	94.3	4.1	B0/220		
BH	(60°-80°)	98.9	4.3	B0/110		G0/110
BVH	(80°-90°)	54.5	2.4			G1/100
UL	(90°-100°)	256.6	11.1		U3/500	
UH	(100°-180°)	734.7	31.9		U4/1000	

BUG Rating: B0-U4-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	26.4	26.4	26.4	*26.4*	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	32.2	32.2	32.4	*32.4*	32.7	32.2	31.5	31.0	30.2	28.6	27.1
5°	44.8	45.0	44.5	*44.8*	45.0	43.8	42.1	39.9	36.8	33.9	30.7
7.5°	60.0	60.7	59.5	*59.3*	58.6	56.6	54.2	50.8	47.4	43.6	39.0
10°	76.7	76.5	75.0	*73.3*	72.8	70.4	67.3	64.1	59.0	54.2	49.4
12.5°	92.4	92.2	91.0	*89.8*	89.1	85.9	82.0	78.4	73.1	66.8	60.7
15°	108.9	109.1	107.9	*107.2*	105.7	102.6	99.5	94.1	88.8	81.6	74.3
17.5°	125.4	125.8	124.6	*124.1*	122.9	120.3	116.2	110.6	103.8	95.3	86.1
20°	143.5	144.0	143.3	*141.6*	140.1	137.2	133.6	126.6	119.1	110.3	98.5
22.5°	162.9	163.1	160.9	*160.4*	159.0	156.3	151.0	144.7	136.2	125.1	112.8
25°	182.0	182.0	181.5	*181.0*	178.8	175.7	170.4	162.6	153.2	141.3	126.8
27.5°	202.5	202.8	201.6	*201.1*	199.4	195.3	189.7	181.2	171.6	157.3	140.8
30°	224.3	224.1	222.9	*221.9*	221.2	217.1	210.8	202.1	190.0	173.5	156.8
32.5°	246.1	245.4	244.7	*243.7*	243.4	238.1	233.0	222.4	209.8	192.4	172.3
35°	268.4	266.7	266.2	*266.4*	265.2	260.9	253.4	243.0	228.4	210.3	187.5
37.5°	287.7	289.2	288.0	*287.0*	287.2	282.4	274.4	262.8	247.6	227.5	203.0
40°	309.3	308.3	308.3	*308.3*	307.6	303.2	294.7	281.9	264.5	243.2	216.6
42.5°	327.9	327.9	329.1	*328.4*	327.7	322.6	313.4	299.1	280.7	257.7	229.6
45°	347.0	346.5	348.0	*347.0*	346.5	341.2	331.5	316.8	297.4	272.2	242.7
47.5°	364.7	364.9	365.4	*365.4*	364.9	358.9	348.7	331.3	311.7	284.8	253.8
50°	379.9	381.1	382.6	*381.6*	382.1	375.6	364.2	346.5	323.8	296.7	263.8
52.5°	394.9	394.9	396.9	*396.9*	396.4	390.1	377.3	358.6	336.1	307.3	273.0
55°	407.8	408.0	409.7	*409.9*	409.7	402.4	388.9	368.8	345.3	316.3	280.5
57.5°	417.4	418.2	420.3	*421.1*	420.1	413.6	398.3	378.0	353.1	323.3	287.0
60°	426.1	427.1	429.5	*430.5*	429.8	422.8	406.8	385.0	359.4	329.3	292.6
62.5°	433.9	434.1	437.3	*437.8*	437.5	430.0	413.1	390.3	364.4	333.9	297.4
65°	439.5	440.2	443.6	*444.3*	443.8	435.8	418.2	394.7	368.5	337.8	301.0
67.5°	443.8	444.3	447.7	*448.9*	448.4	439.9	421.8	397.3	371.0	340.5	303.9
70°	446.2	447.0	450.8	*451.8*	451.3	442.8	424.0	398.6	372.4	342.4	305.9
72.5°	447.7	448.4	452.5	*453.7*	453.5	444.5	424.9	399.0	372.9	343.4	307.3
75°	*448.4*	*449.1*	*453.2*	*454.9*	*454.2*	*445.3*	*425.2*	*398.8*	*372.7*	*344.1*	*308.5*
76°	448.4	448.9	453.2	*454.9*	454.2	445.3	425.2	398.3	372.4	344.4	309.0
77.5°	447.9	448.6	453.0	*454.5*	454.0	445.0	424.4	397.3	371.7	343.9	309.3
80°	446.7	447.4	451.6	*453.2*	452.5	443.3	422.8	395.4	369.8	342.9	309.3
82.5°	444.0	444.8	448.6	*449.9*	449.6	440.4	419.6	392.0	366.9	341.2	308.8
85°	439.9	440.7	443.8	*445.3*	444.5	435.8	415.0	387.4	363.2	338.5	307.3
87.5°	434.4	434.9	438.2	*438.7*	438.5	429.8	409.2	381.6	358.4	334.9	304.9
90°	427.6	428.1	430.7	*431.5*	430.7	422.5	401.7	375.3	352.3	330.6	302.0
92.5°	420.6	420.3	422.3	*423.0*	422.3	414.0	394.0	367.8	346.0	325.7	298.4
95°	412.3	412.8	413.3	*413.8*	412.8	404.8	385.2	359.6	339.3	320.4	295.0
97.5°	403.2	402.9	403.4	*403.4*	402.4	394.4	375.3	351.6	331.5	314.6	290.4
100°	393.5	393.2	392.7	*391.8*	390.8	383.1	365.4	341.7	323.5	307.6	285.8
102.5°	382.8	381.4	379.9	*379.7*	377.5	371.0	354.0	332.3	315.1	301.0	280.0
105°	369.8	369.3	367.1	*365.2*	364.0	356.7	341.2	321.8	306.1	293.0	273.7
107.5°	356.4	355.5	352.3	*351.6*	349.2	342.7	328.6	311.4	297.2	285.1	266.2

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

Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	342.2	341.7	338.3	*336.1*	334.2	326.9	314.8	300.3	287.2	276.1	257.7
112.5°	326.2	325.7	322.1	*320.4*	317.5	311.9	300.6	287.5	276.4	266.2	248.5
115°	310.0	309.7	305.6	*303.5*	300.8	294.0	284.8	274.7	264.7	254.6	237.4
117.5°	293.8	292.6	288.5	*285.8*	283.1	277.1	269.6	261.6	252.4	243.0	226.0
120°	275.4	275.1	270.5	*268.4*	265.9	260.4	253.8	246.3	239.1	229.6	214.6
122.5°	257.7	257.5	253.4	*250.7*	247.6	243.2	237.9	232.1	225.5	216.3	201.6
125°	239.8	239.3	235.0	*232.3*	229.6	226.0	220.9	216.8	211.5	202.8	188.8
127.5°	221.7	220.7	218.0	*215.4*	212.5	207.9	206.2	202.5	196.7	188.3	175.9
130°	204.7	204.2	200.6	*198.2*	195.3	191.7	190.2	187.3	183.2	175.4	163.8
132.5°	187.1	186.6	184.4	*182.0*	179.6	175.9	175.2	172.5	168.4	162.1	151.2
135°	171.3	170.8	168.4	*165.8*	164.6	161.9	160.9	158.7	154.9	148.6	139.1
137.5°	156.1	155.8	153.4	*151.2*	149.8	147.9	146.9	145.0	142.0	136.5	127.8
140°	142.3	141.1	139.1	*137.2*	135.8	133.8	133.3	131.6	129.5	124.1	117.8
142.5°	128.5	127.8	126.3	*124.6*	123.7	121.5	120.3	119.5	116.6	112.5	107.4
145°	114.9	114.9	113.7	*112.5*	111.1	109.6	108.7	107.9	105.5	101.9	97.0
147.5°	103.6	103.6	102.6	*102.1*	100.9	99.0	98.2	97.5	95.3	92.4	88.6
150°	93.9	93.4	92.7	*92.0*	91.0	89.3	88.1	87.4	85.7	83.5	79.9
152.5°	84.2	84.2	83.7	*82.8*	82.0	80.8	79.9	78.9	77.7	75.3	72.4
155°	76.0	76.0	75.3	*74.8*	74.3	73.3	72.4	71.4	69.9	68.0	65.8
157.5°	69.2	69.2	68.7	*68.5*	67.5	67.0	66.1	65.1	63.6	61.9	60.0
160°	62.9	63.2	62.9	*62.7*	61.9	61.2	60.3	59.3	58.1	56.6	55.2
162.5°	57.8	58.1	57.6	*57.4*	56.9	56.1	55.2	54.7	53.7	52.0	50.6
165°	53.5	53.5	53.2	*53.0*	52.8	51.8	51.3	50.8	49.8	48.6	47.4
167.5°	50.1	50.1	49.8	*49.8*	49.4	48.9	48.2	47.7	46.7	46.0	44.5
170°	47.2	47.2	46.9	*46.7*	46.5	46.0	45.5	44.8	44.3	43.3	42.6
172.5°	44.8	44.8	44.5	*44.3*	44.3	43.6	43.3	42.8	42.3	41.6	40.9
175°	42.8	42.6	42.6	*42.3*	42.1	41.6	41.4	41.1	40.7	40.4	39.9
177.5°	41.1	41.1	40.9	*40.9*	40.7	40.2	40.2	39.9	39.7	39.4	39.2
180°	39.0	39.0	39.0	*39.0*	39.0	39.0	39.0	39.0	39.0	39.0	39.0

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

Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	26.4	25.7	23.7	22.0	20.8	19.1	17.7	17.2	16.9	16.7	16.7
5°	29.0	27.6	24.2	21.1	18.1	15.7	13.6	11.4	9.7	8.7	8.2
7.5°	36.5	34.8	30.2	26.1	22.0	18.4	14.8	12.1	9.7	8.2	8.2
10°	46.5	44.0	38.2	32.4	27.3	22.0	17.7	14.0	11.9	10.6	10.6
12.5°	56.9	53.7	46.9	39.4	32.4	26.4	21.1	17.2	14.8	13.8	13.8
15°	69.2	65.1	56.4	46.9	38.5	31.2	25.2	20.8	17.9	16.7	16.5
17.5°	81.1	75.7	65.3	54.7	44.5	35.8	28.8	23.2	20.1	18.4	18.1
20°	93.6	87.1	74.8	61.7	50.1	39.4	31.0	24.9	20.8	18.9	18.6
22.5°	105.3	98.2	83.5	68.2	54.4	42.1	32.2	25.2	20.6	18.4	18.1
25°	118.6	110.6	93.2	75.3	59.0	44.3	33.2	25.2	20.3	17.9	17.7
27.5°	132.1	122.7	103.1	82.3	63.2	46.7	33.9	25.2	19.8	17.4	17.2
30°	146.4	136.0	112.5	89.5	67.5	48.6	34.6	24.9	19.6	16.9	16.7
32.5°	160.9	148.8	122.9	96.6	71.9	50.6	35.1	24.9	19.1	16.7	16.2
35°	175.7	161.6	133.3	103.8	75.7	52.3	35.3	24.7	18.9	16.2	16.0
37.5°	188.8	174.2	143.0	110.3	79.4	53.5	35.6	24.4	18.6	16.0	15.7
40°	202.1	186.3	152.2	116.2	82.0	54.2	35.3	24.2	18.1	15.7	15.5
42.5°	214.2	197.2	160.7	121.7	84.5	54.9	35.1	23.7	17.9	15.5	15.2
45°	225.8	207.9	168.7	126.6	86.6	55.2	34.6	23.5	17.7	15.5	15.2
47.5°	236.4	217.1	176.4	131.2	88.6	55.2	34.4	23.0	17.7	15.5	15.2
50°	245.4	226.3	182.7	135.3	89.8	54.9	33.9	22.7	17.7	15.5	15.2
52.5°	254.1	233.8	189.0	138.4	90.5	54.4	33.2	22.5	17.7	15.7	15.5
55°	261.1	240.5	194.3	141.8	91.2	54.0	32.7	22.3	17.7	15.7	15.7
57.5°	267.2	246.1	198.4	144.0	91.2	53.0	32.2	22.3	17.9	16.2	16.0
60°	273.0	251.2	202.8	145.9	91.2	52.3	31.7	22.3	18.1	16.5	16.2
62.5°	276.8	255.3	206.2	147.6	90.7	51.5	31.2	22.3	18.4	16.9	16.7
65°	280.7	259.2	209.3	149.1	90.5	50.8	31.2	22.5	18.9	17.7	17.4
67.5°	283.6	262.3	211.5	150.0	90.0	50.1	31.0	23.0	19.6	18.4	18.1
70°	286.0	264.7	214.2	150.8	89.5	49.6	31.2	23.7	20.3	19.1	19.1
72.5°	288.0	266.9	215.6	151.5	89.1	49.4	31.7	24.4	21.5	20.3	20.1
75°	*289.2*	*268.1*	*217.1*	*151.7*	*88.6*	*49.1*	*32.2*	*25.4*	*22.5*	*21.5*	*21.3*
76°	289.4	268.6	217.5	152.0	88.3	49.1	32.4	25.7	23.0	22.0	21.8
77.5°	290.1	269.3	218.0	152.0	88.1	49.1	32.9	26.4	23.7	22.7	22.7
80°	290.6	269.8	218.8	152.2	87.6	49.1	33.6	27.6	25.2	24.2	24.0
82.5°	290.4	270.1	219.0	151.7	87.4	49.4	34.6	28.8	26.6	25.7	25.4
85°	289.4	269.3	218.5	151.0	86.6	49.8	35.6	30.2	27.8	26.9	26.9
87.5°	287.7	267.6	217.3	150.0	86.1	50.1	36.5	31.5	29.3	28.3	28.3
90°	285.3	265.7	215.9	149.1	85.4	50.3	37.8	32.7	30.7	30.0	29.8
92.5°	282.4	263.3	213.9	147.6	84.9	50.8	38.7	34.1	32.2	31.2	31.2
95°	279.5	260.6	211.7	145.9	84.5	51.5	39.7	35.3	33.4	32.7	32.7
97.5°	275.4	257.0	208.8	144.0	83.7	51.8	40.9	36.5	34.8	33.9	33.9
100°	270.3	252.9	205.4	142.0	83.2	52.5	41.9	37.8	36.1	35.3	35.1
102.5°	265.2	248.0	201.8	139.9	82.5	52.8	42.8	39.0	37.0	36.3	36.3
105°	259.4	242.7	197.2	137.0	81.8	53.2	43.6	39.7	38.0	37.3	37.0
107.5°	252.6	235.9	192.6	134.3	81.1	53.7	44.3	40.4	38.7	38.0	37.8

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

Scaled Data Report

REPORT NUMBER: P1045938
CATALOG NUMBER: FFX-CLB-20-730-U-FG-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	244.9	229.6	187.1	131.4	80.6	54.4	45.0	40.9	39.2	38.2	38.2
112.5°	235.9	220.7	181.0	128.0	80.6	55.4	45.5	41.4	39.4	38.5	38.5
115°	225.3	211.3	173.7	124.9	80.3	56.4	46.5	41.6	39.4	38.7	38.5
117.5°	214.9	201.3	166.5	121.7	81.1	58.1	47.4	42.1	39.4	38.5	38.5
120°	203.3	190.9	159.0	118.6	82.0	59.8	48.6	42.3	39.4	38.2	38.2
122.5°	191.2	179.8	151.7	115.7	82.8	61.7	49.6	42.8	39.2	38.0	37.8
125°	179.8	168.4	143.5	112.8	83.5	63.4	50.8	43.1	39.0	37.5	37.3
127.5°	167.2	158.5	136.2	109.6	84.0	64.9	51.8	43.3	38.7	37.0	36.8
130°	156.3	147.9	129.0	106.2	83.5	65.3	52.0	43.1	38.2	36.5	36.5
132.5°	144.2	137.4	121.0	101.9	82.3	65.3	52.3	43.1	38.0	36.3	36.1
135°	133.6	127.3	113.5	97.0	80.1	64.4	51.8	42.8	37.8	36.1	35.8
137.5°	123.7	117.6	105.5	92.0	77.0	62.7	50.8	42.3	37.5	35.8	35.6
140°	113.0	108.7	98.2	86.4	73.6	60.7	49.6	41.9	37.5	35.8	35.6
142.5°	103.3	99.7	90.3	80.3	69.2	57.8	48.2	41.1	37.3	35.8	35.6
145°	94.6	90.5	83.2	74.3	64.9	55.2	46.7	40.7	37.0	35.8	35.6
147.5°	86.1	82.5	76.5	68.7	61.0	52.5	45.3	39.9	37.0	35.8	35.6
150°	77.7	75.3	69.9	63.6	56.6	49.8	43.8	39.4	37.0	36.1	35.8
152.5°	70.4	68.7	64.1	59.0	53.0	47.2	42.3	39.0	37.0	36.1	36.1
155°	64.4	62.7	58.8	54.2	49.8	45.0	41.4	38.5	37.0	36.3	36.1
157.5°	58.3	57.1	54.0	50.6	46.9	43.3	40.4	38.2	37.0	36.3	36.3
160°	53.7	52.5	50.1	47.4	44.5	41.9	39.4	37.8	37.0	36.5	36.5
162.5°	49.8	48.9	46.9	44.8	42.6	40.4	38.7	37.5	37.0	36.5	36.5
165°	46.7	46.0	44.3	42.6	41.1	39.4	38.2	37.5	37.0	36.8	36.8
167.5°	44.0	43.6	42.3	41.1	39.9	38.7	37.8	37.3	37.0	37.0	37.0
170°	42.1	41.6	40.9	39.9	39.0	38.2	37.5	37.3	37.3	37.0	37.3
172.5°	40.7	40.4	39.7	39.0	38.5	37.8	37.5	37.3	37.5	37.5	37.5
175°	39.7	39.4	39.0	38.5	38.2	37.8	37.8	37.5	37.8	38.0	38.0
177.5°	39.0	38.7	38.5	38.5	38.2	38.0	38.0	38.2	38.5	38.5	38.5
180°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

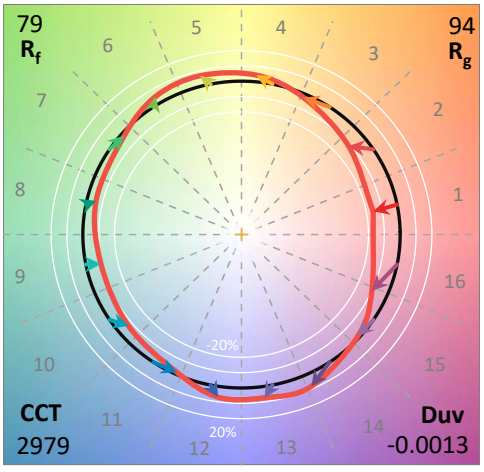
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

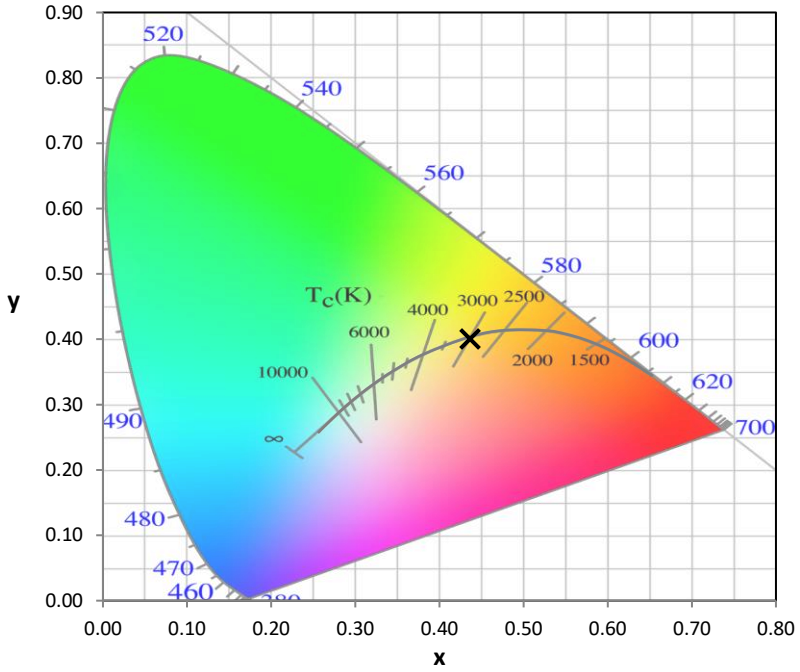
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

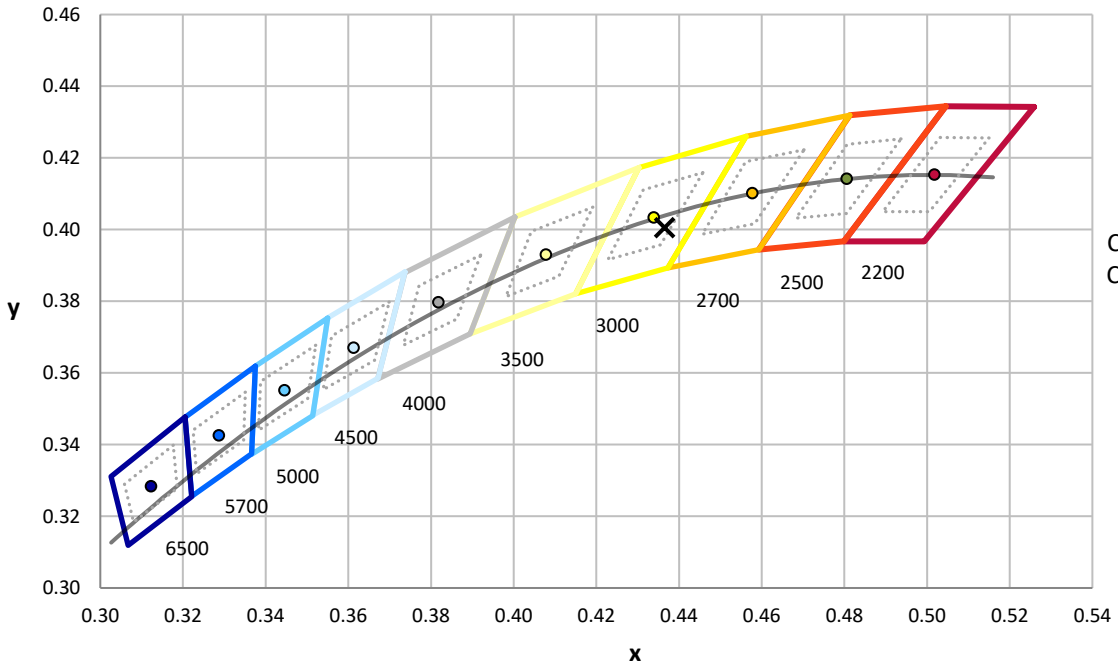
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

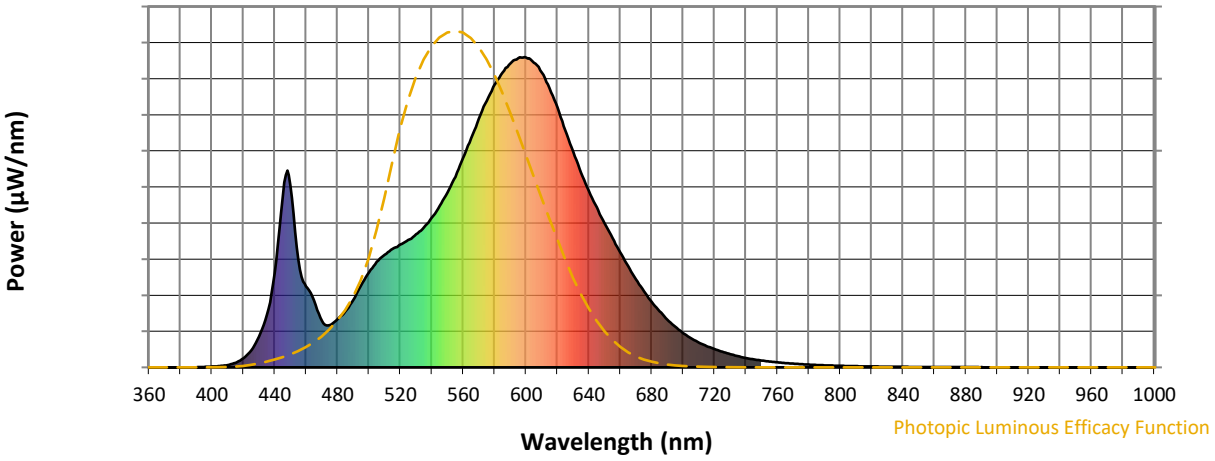


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

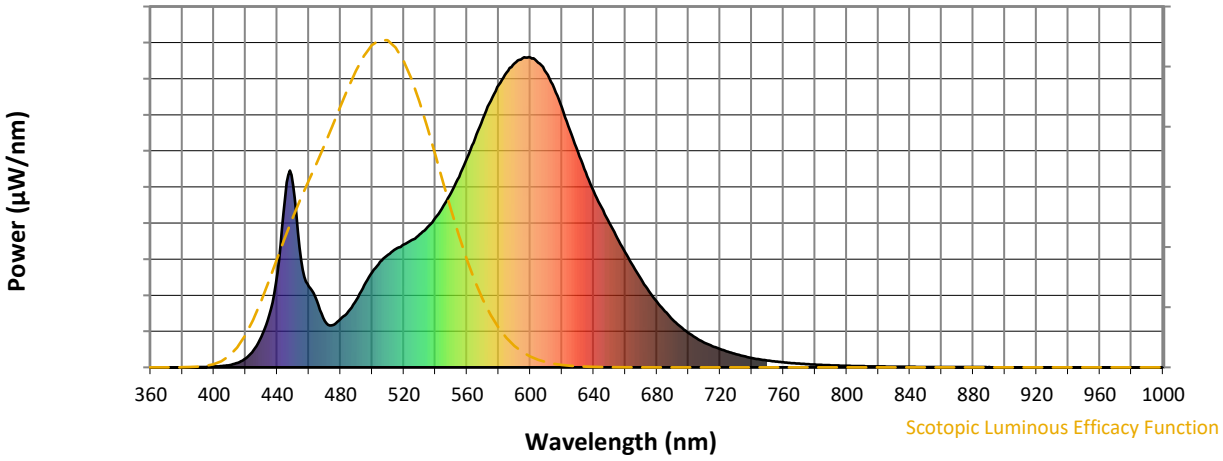


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

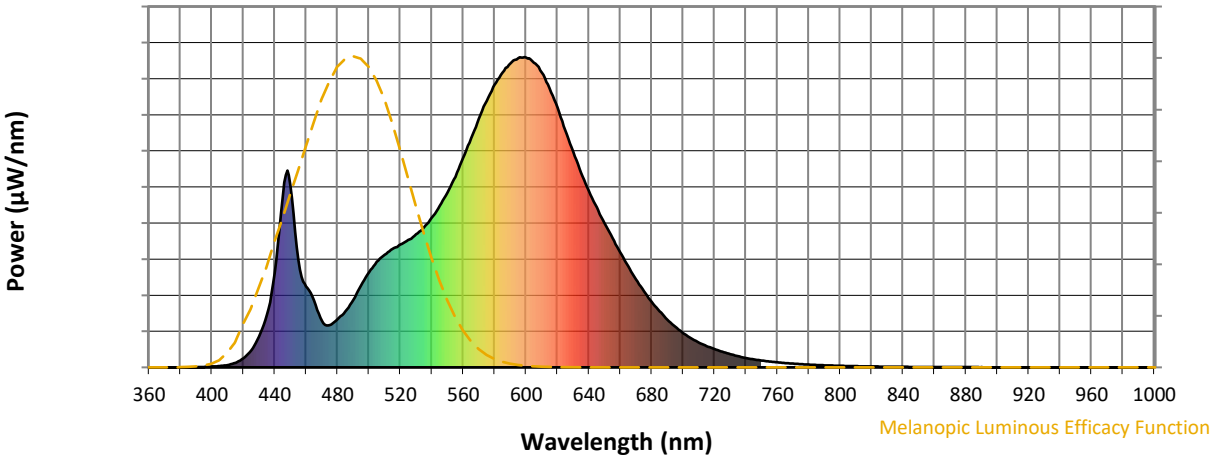


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

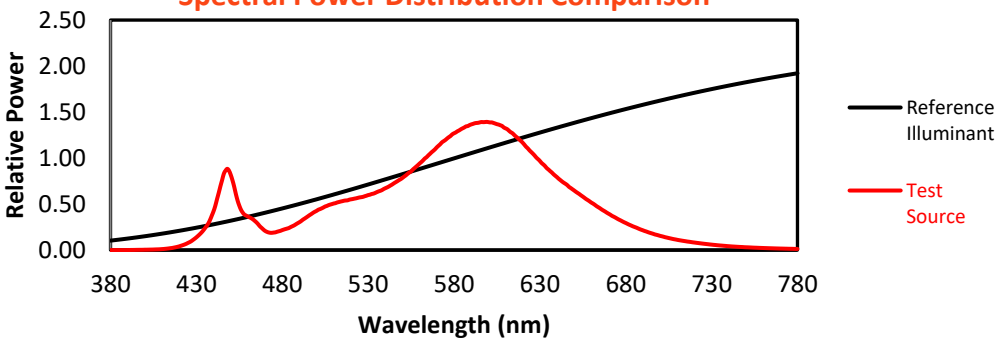
REPORT NUMBER: SP1-2501-332-9

TM-30-18

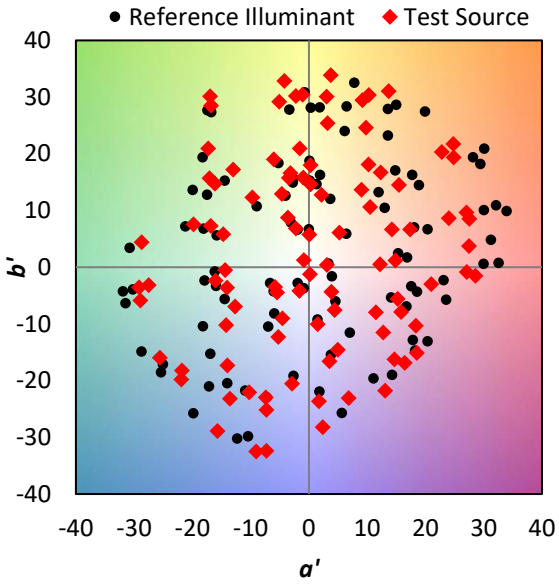
Summary

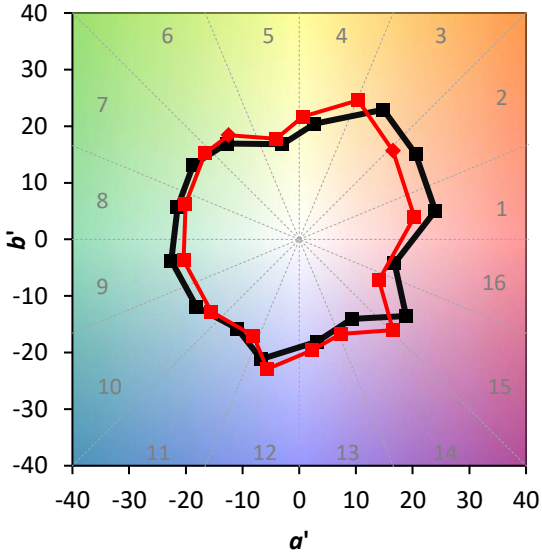
R_f = 79.2
R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

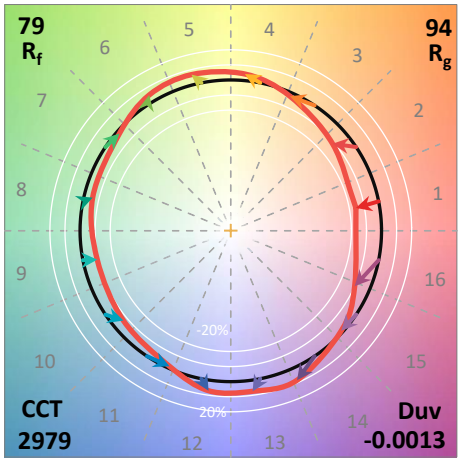
Spectral Power Distribution Comparison

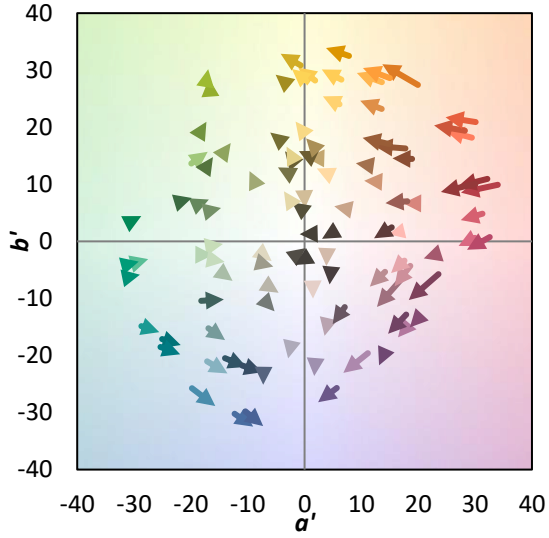


Color Vector Graphics







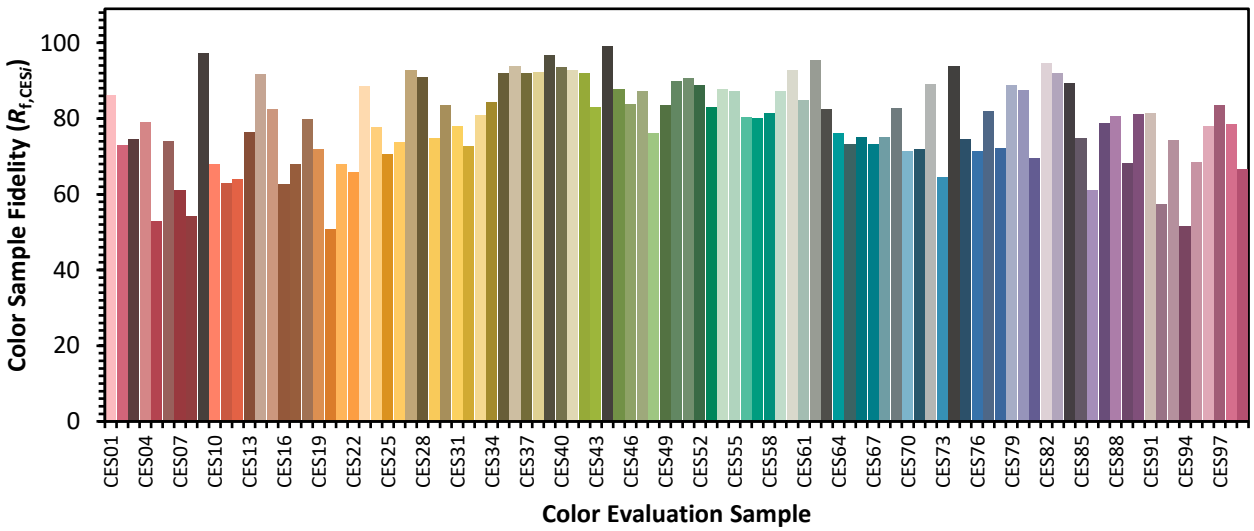


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

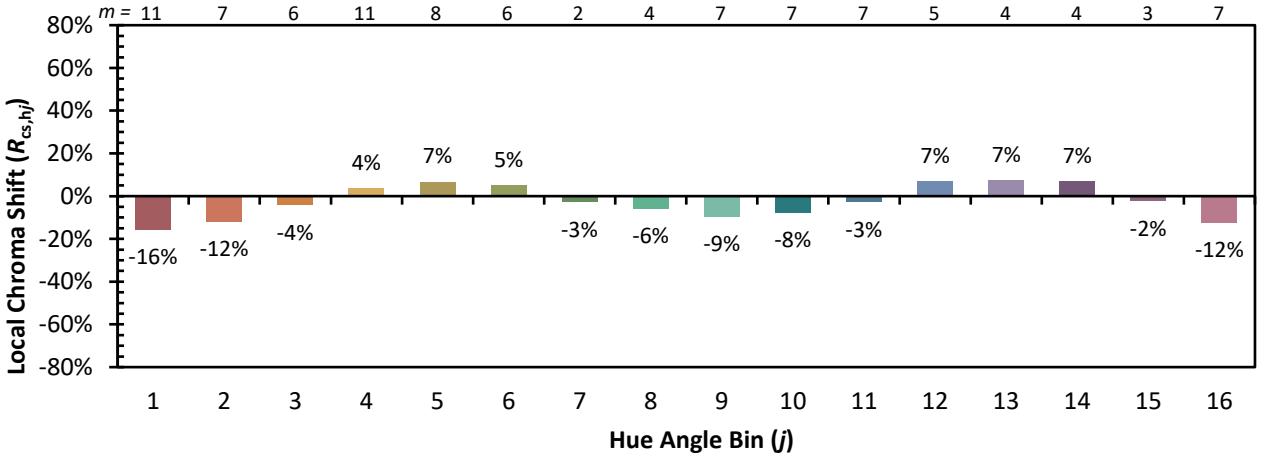
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

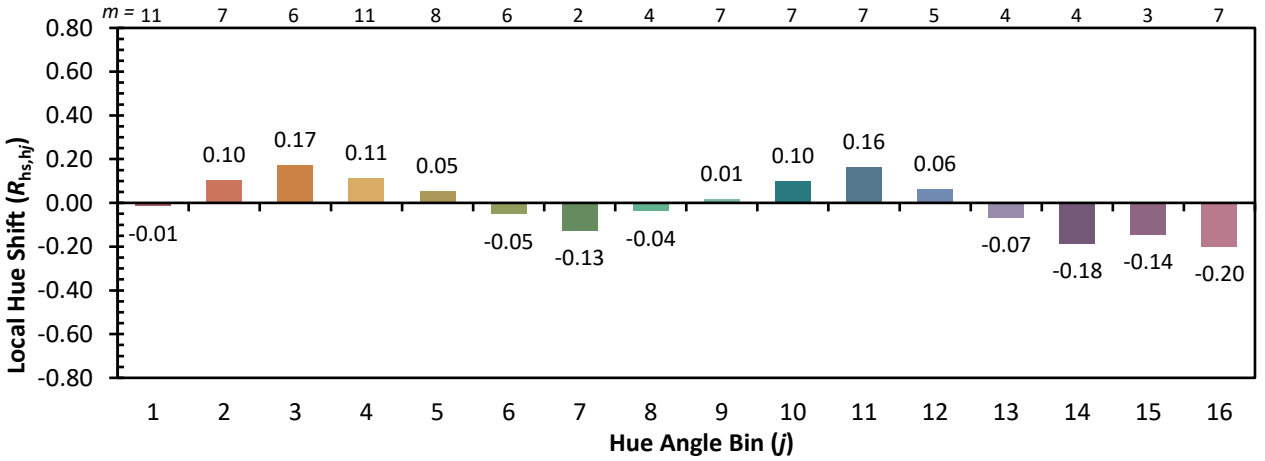


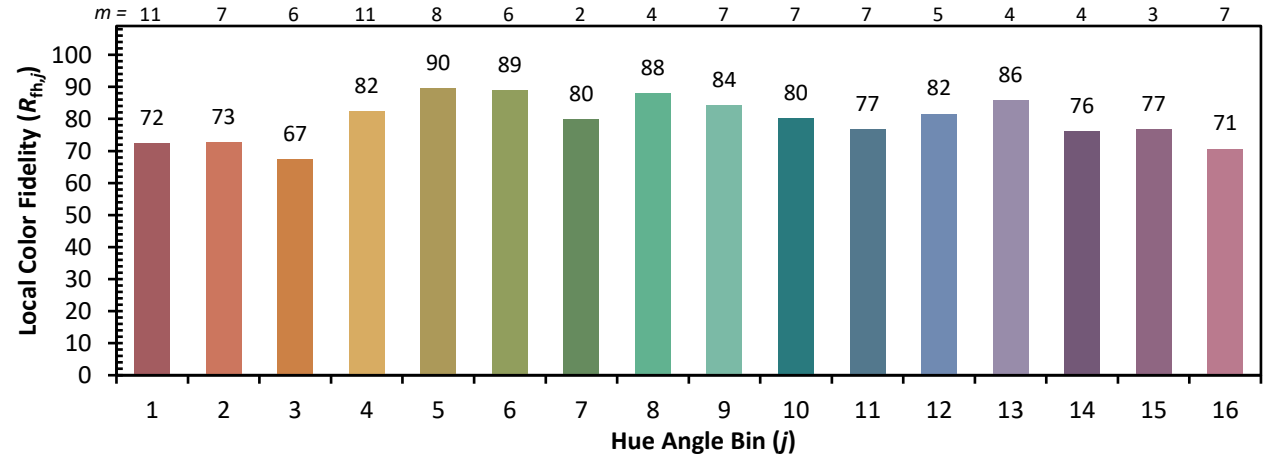
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



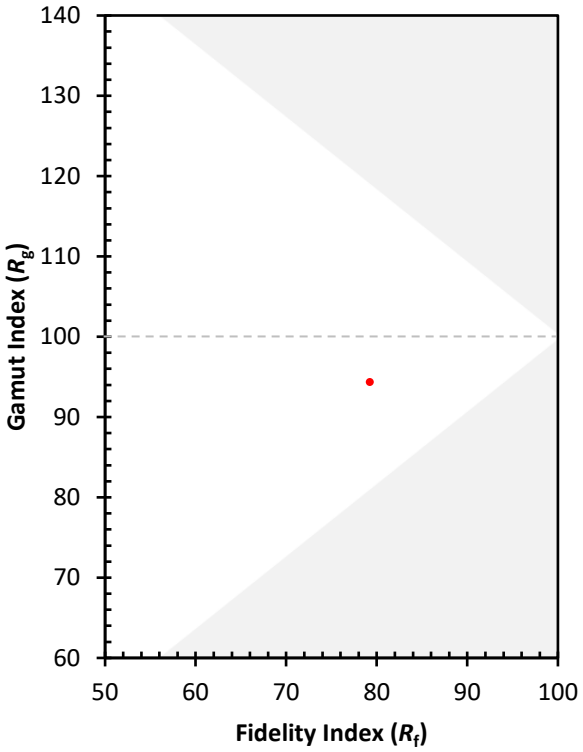


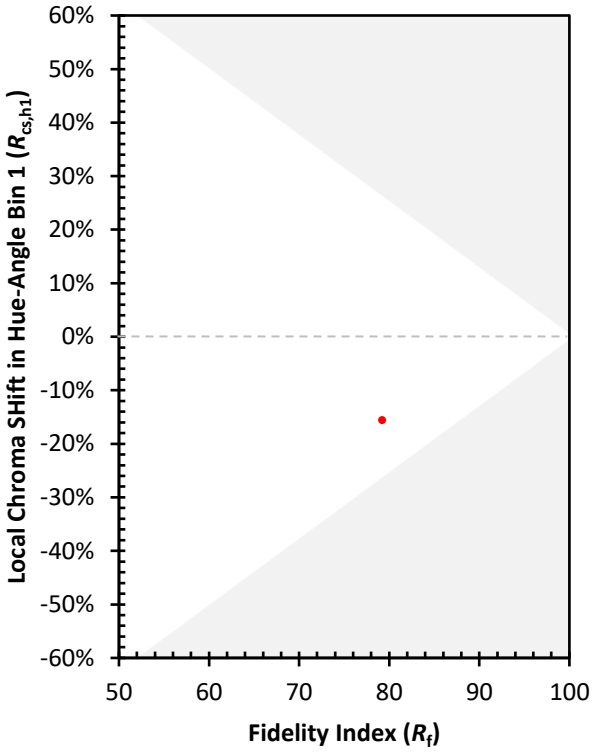


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)