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: P1045890

Luminaire Tested: **FFX-CLB-50-730-U-VM9-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:	P1045890
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5415.1 lumens
Efficiency:	N/A
Efficacy:	107.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

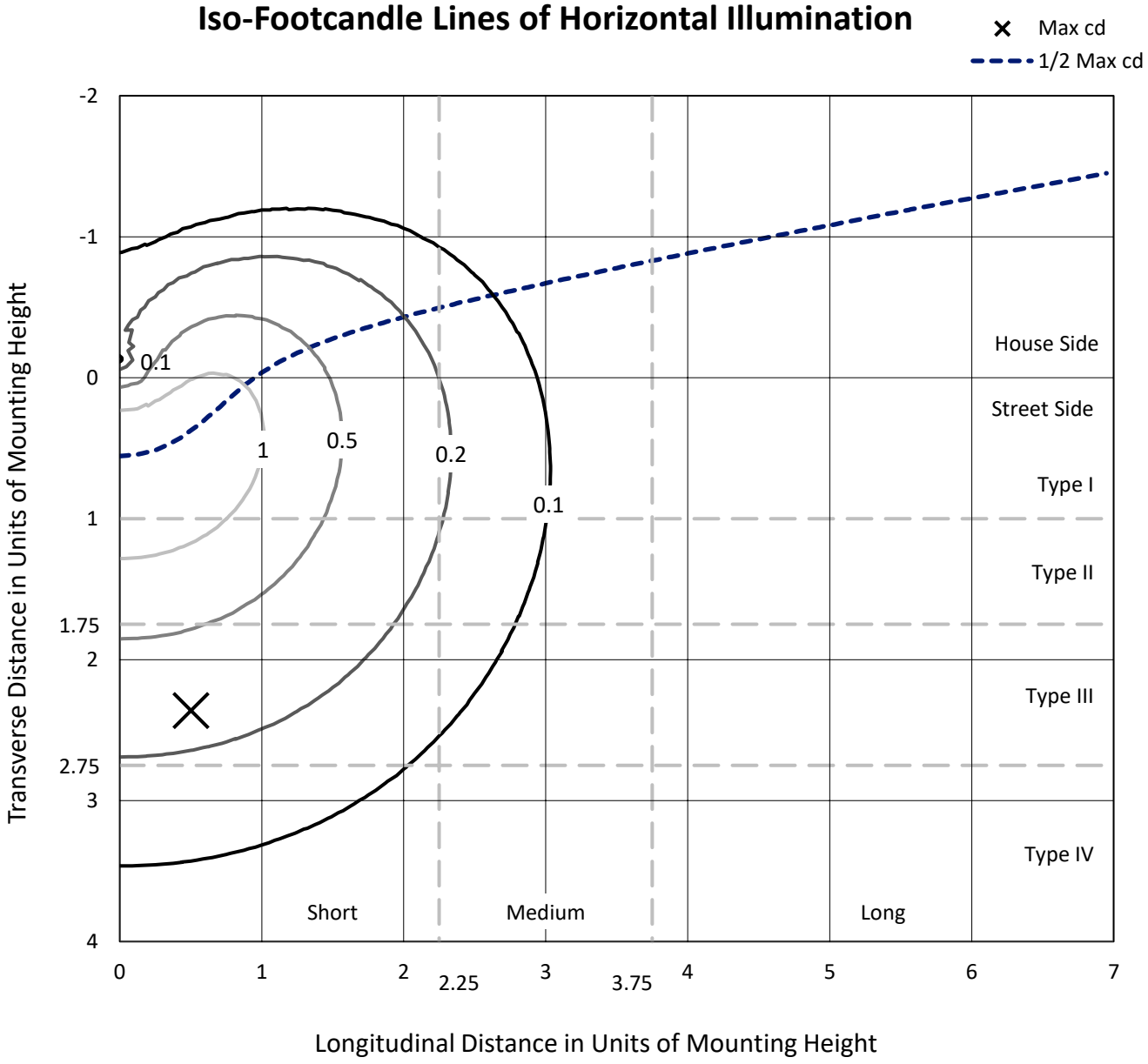


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



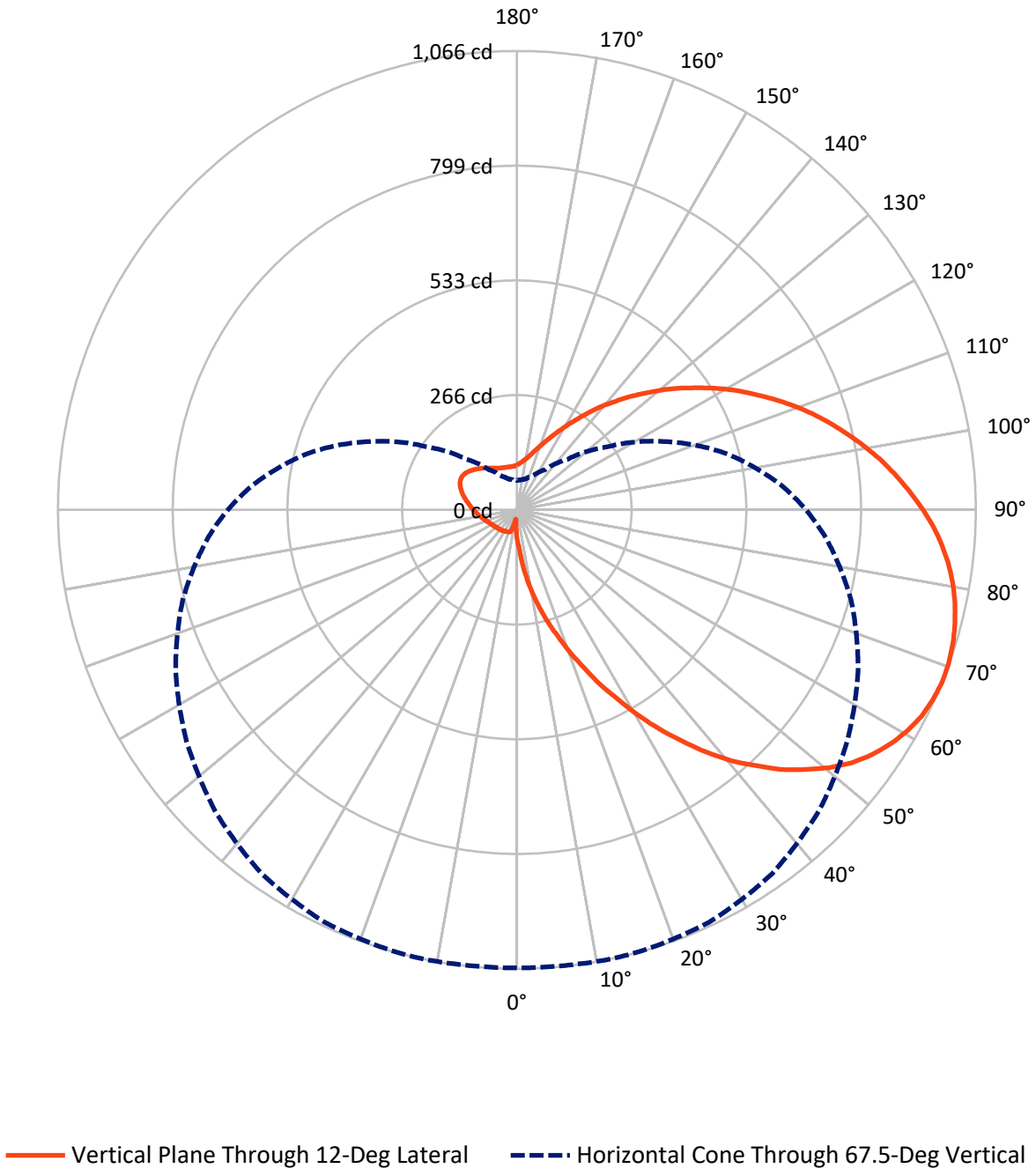
Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

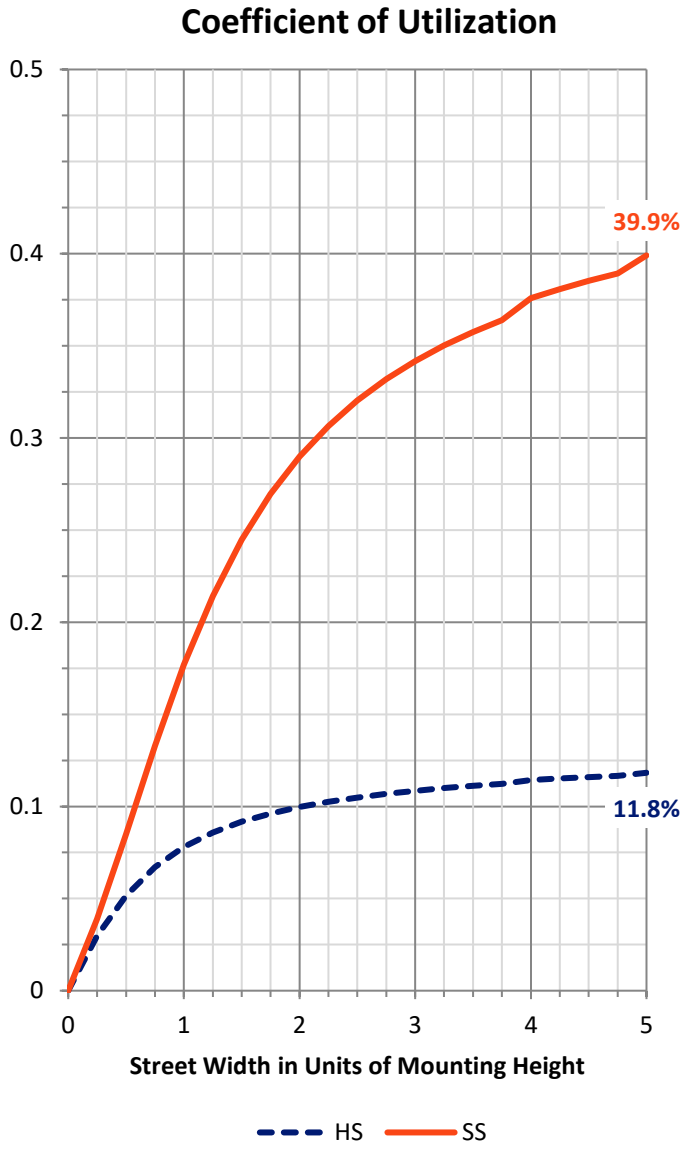
REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.9	674.5	1371.4
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2463.9	1579.9	4043.8
	% Fixture	45.5	29.2	74.7
Total	Lumens	3160.7	2254.4	5415.1
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.2
10°-20°	48.2	0.9
20°-30°	125.6	2.3
30°-40°	243.9	4.5
40°-50°	383.0	7.1
50°-60°	508.3	9.4
60°-70°	592.4	10.9
70°-80°	629.4	11.6
80°-90°	621.4	11.5
90°-100°	573.0	10.6
100°-110°	500.0	9.2
110°-120°	411.1	7.6
120°-130°	311.2	5.7
130°-140°	212.6	3.9
140°-150°	130.3	2.4
150°-160°	71.5	1.3
160°-170°	34.5	0.6
170°-180°	10.2	0.2
0°-90°	3160.7	58.4
0°-180°	5415.1	100.0



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

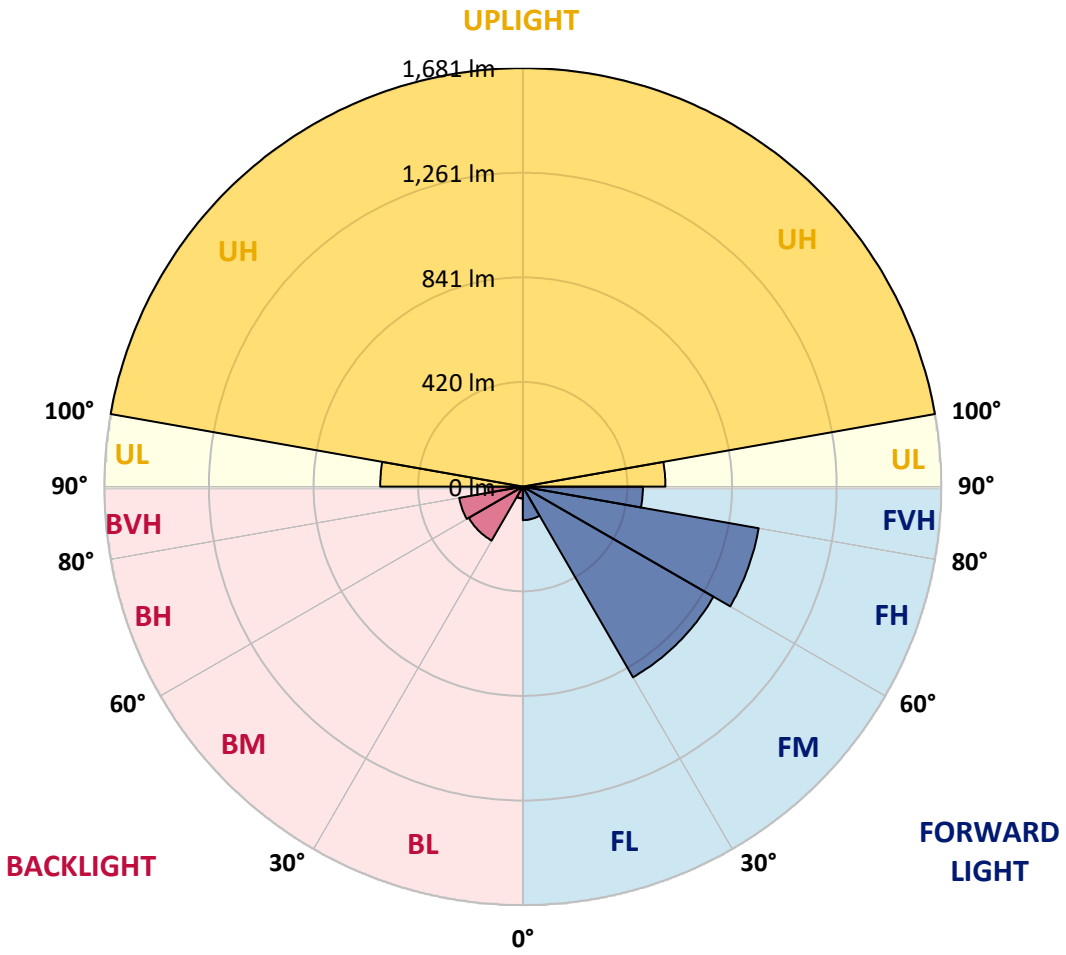
Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	134.6	2.5			
FM	(30°-60°)	884.7	16.3			
FH	(60°-80°)	962.3	17.8			G1/1800
FVH	(80°-90°)	482.3	8.9			G3/500
BL	(0°-30°)	47.7	0.9	B0/110		
BM	(30°-60°)	250.5	4.6	B1/1000		
BH	(60°-80°)	259.5	4.8	B1/500		G1/500
BVH	(80°-90°)	139.1	2.6			G2/225
UL	(90°-100°)	573.0	10.6		U4/1000	
UH	(100°-180°)	1681.4	31.1		U5	

BUG Rating: B1-U5-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
2.5°	85.8	87.6	85.8	88.2	87.0	87.0	84.0	81.0	76.8	72.1	67.9
5°	121.5	120.9	118.5	120.9	118.5	115.6	110.8	103.1	95.3	88.2	79.2
7.5°	158.5	159.1	157.3	156.7	151.3	147.1	139.4	131.7	122.1	111.4	100.7
10°	198.4	197.2	194.2	194.8	188.8	180.5	171.6	162.6	151.9	139.4	125.7
12.5°	235.3	235.3	232.9	233.5	227.0	217.4	210.3	198.4	185.3	170.4	153.7
15°	274.6	272.2	271.1	271.1	264.5	256.2	248.4	235.3	219.8	203.1	184.1
17.5°	311.0	310.4	309.2	309.8	303.8	296.7	284.2	271.1	252.6	232.3	212.7
20°	357.4	355.0	353.3	350.3	346.7	337.2	325.3	308.0	289.5	267.5	241.3
22.5°	399.7	402.7	397.9	395.6	390.8	383.0	365.8	349.1	327.0	301.4	272.8
25°	448.6	451.0	449.2	446.2	439.6	428.9	412.8	394.4	368.2	339.0	305.0
27.5°	499.8	501.6	496.8	498.0	486.7	476.6	460.5	437.9	412.8	378.3	342.5
30°	550.4	554.0	552.2	548.1	538.5	529.6	510.5	486.7	458.1	420.0	378.9
32.5°	610.0	605.8	606.4	601.7	595.7	581.4	564.7	537.9	504.6	464.1	417.0
35°	665.4	663.6	658.9	661.2	651.1	638.0	617.2	588.6	552.2	507.5	455.7
37.5°	714.9	716.6	713.7	711.9	705.3	690.4	666.0	636.8	595.1	548.1	491.5
40°	765.5	766.7	766.1	766.1	757.2	740.5	715.5	682.7	639.8	589.2	527.8
42.5°	813.7	814.9	812.0	812.6	805.4	788.1	761.3	726.8	679.1	626.1	559.4
45°	860.2	860.2	860.2	859.6	849.5	833.4	806.0	766.7	719.0	658.9	588.6
47.5°	903.1	901.9	901.3	901.3	894.8	875.7	846.5	803.6	751.8	688.6	617.2
50°	941.2	941.8	941.2	940.0	929.9	914.4	881.7	837.0	782.2	717.2	641.0
52.5°	974.0	974.6	975.2	972.2	965.7	947.2	910.8	863.2	807.8	739.9	660.6
55°	1000.2	1001.4	1002.6	1001.4	994.8	972.8	936.5	888.2	828.6	758.9	677.9
57.5°	1024.6	1024.0	1024.6	1023.4	1016.3	994.8	957.3	905.5	845.3	774.4	691.0
60°	1041.3	1041.9	1041.9	1041.9	1033.6	1011.5	971.6	918.6	857.2	786.3	702.3
62.5°	1052.6	1053.2	1055.0	1053.8	1046.1	1022.8	981.7	928.1	866.2	794.1	710.1
65°	1060.4	1061.0	1062.2	1061.0	1053.8	1030.0	988.3	934.1	872.1	800.0	715.5
67.5°	1063.9	1063.9	1065.7	1065.1	1056.8	1032.4	990.7	936.5	874.5	803.0	719.0
70°	1062.2	1062.8	1063.9	1063.4	1055.0	1030.6	988.9	935.3	873.9	803.0	719.6
72.5°	1058.0	1058.0	1059.2	1058.0	1050.2	1025.8	984.7	931.7	870.9	801.8	719.0
75°	1049.7	1050.2	1050.8	1050.2	1041.9	1018.1	977.6	925.1	866.2	797.7	716.6
77.5°	1039.5	1040.1	1040.1	1040.1	1031.2	1007.4	968.0	916.8	859.6	792.9	712.5
80°	1024.6	1025.2	1026.4	1025.2	1016.3	994.8	955.5	906.7	851.3	785.2	707.1
82.5°	1008.0	1007.4	1009.1	1008.5	999.6	978.2	939.4	893.0	838.8	776.2	699.4
85°	987.1	987.1	988.3	987.1	979.4	956.7	920.4	876.3	824.5	763.1	689.8
87.5°	963.9	963.9	965.1	962.7	953.7	934.1	899.5	856.6	809.0	750.0	679.1
90°	936.5	937.7	937.7	935.9	926.9	907.9	876.3	835.2	788.7	733.9	666.6
92.5°	910.3	910.3	909.1	909.1	899.5	880.5	851.3	813.7	770.3	717.8	652.9
95°	882.3	882.3	880.5	879.3	869.7	853.7	825.7	791.1	749.4	701.2	639.2
97.5°	852.5	851.9	850.7	849.5	840.0	824.5	799.5	766.1	728.0	682.1	624.3
100°	822.1	822.7	818.5	817.9	808.4	795.3	771.5	740.5	705.3	662.4	608.2
102.5°	788.7	789.9	786.3	785.7	776.2	761.9	742.9	714.9	683.3	644.0	592.1
105°	758.9	756.0	754.2	753.0	744.6	731.5	711.3	689.2	659.5	622.5	574.3
107.5°	725.0	725.6	722.0	719.6	711.3	700.6	682.7	662.4	636.2	601.1	557.0
110°	691.0	689.8	688.1	686.9	677.3	667.8	652.3	635.6	610.0	579.6	538.5

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

Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	655.9	656.5	*653.5*	651.7	645.2	635.0	623.7	607.6	585.6	557.0	518.3
115°	623.1	621.9	*619.5*	618.4	611.2	603.5	592.1	580.2	560.6	533.2	498.0
117.5°	589.8	587.4	*586.8*	585.0	579.6	571.9	563.0	552.8	533.8	509.9	476.6
120°	555.2	555.2	*554.0*	552.8	545.7	539.1	533.8	523.0	507.0	484.3	455.7
122.5°	523.0	522.4	*520.1*	518.3	514.7	508.7	502.2	493.8	479.6	459.3	431.9
125°	487.9	489.1	*487.3*	486.7	480.7	477.8	471.8	466.4	451.6	433.1	408.7
127.5°	458.7	456.9	*456.9*	453.9	451.0	448.0	443.2	436.1	425.9	406.9	384.2
130°	427.7	426.5	*424.7*	424.7	421.2	417.0	414.0	408.1	396.7	381.3	359.8
132.5°	396.7	395.6	*394.4*	392.6	390.2	389.6	386.6	380.1	369.3	355.6	337.2
135°	367.6	367.0	*366.4*	366.4	362.8	361.0	357.4	352.1	344.9	332.4	314.5
137.5°	340.2	338.4	*337.2*	337.2	336.0	333.0	330.0	325.9	318.1	308.0	291.9
140°	311.6	312.8	*312.8*	312.2	309.8	308.0	304.4	300.8	293.1	284.8	271.1
142.5°	287.7	287.1	*285.9*	285.3	284.2	281.8	280.0	275.8	271.1	262.1	250.2
145°	262.1	262.1	*261.5*	262.1	259.7	259.1	256.8	253.2	247.8	240.1	229.9
147.5°	239.5	239.5	*238.9*	239.5	237.7	235.9	234.1	231.7	227.0	221.0	212.1
150°	218.6	219.2	*218.0*	218.0	217.4	215.6	214.5	210.9	207.3	202.5	194.8
152.5°	199.6	200.2	*199.6*	199.0	198.4	197.2	195.4	193.0	189.4	185.3	178.7
155°	183.5	182.9	*182.9*	182.9	182.3	180.5	180.5	176.9	173.4	170.4	163.8
157.5°	168.0	168.0	*168.0*	168.0	166.8	166.2	165.0	162.0	160.2	156.1	151.3
160°	155.5	154.9	*154.9*	154.9	153.7	153.1	151.3	150.1	147.7	144.2	140.6
162.5°	143.0	143.6	*143.6*	143.6	142.4	141.8	140.6	139.4	137.6	134.0	131.7
165°	133.4	133.4	*133.4*	132.8	132.2	132.2	130.5	129.9	128.1	125.7	123.9
167.5°	125.7	125.7	*125.1*	125.7	124.5	123.3	122.7	121.5	120.3	119.1	117.4
170°	119.1	119.1	*119.1*	119.1	118.5	118.0	116.8	116.2	115.0	113.8	112.0
172.5°	113.8	113.8	*113.8*	113.8	113.2	112.6	111.4	110.8	110.2	109.0	107.8
175°	109.6	109.6	*109.6*	109.6	109.0	108.4	107.2	107.2	106.6	106.0	104.8
177.5°	106.6	106.6	*106.0*	106.0	105.4	104.8	104.8	104.3	104.3	103.7	103.1
180°	103.1	103.1	*103.1*	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1

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

Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
2.5°	65.5	63.1	59.0	55.4	51.2	48.3	45.3	44.7	44.7	45.9	45.9
5°	75.7	70.3	62.0	54.2	45.3	38.7	32.8	27.4	23.8	22.0	22.0
7.5°	94.7	90.5	78.0	67.3	56.6	46.5	36.9	28.6	22.6	18.5	17.9
10°	119.1	112.6	97.7	84.0	69.7	57.2	45.9	35.7	28.6	25.0	25.0
12.5°	145.4	136.4	118.5	101.9	85.2	69.1	56.0	45.9	38.7	35.1	34.0
15°	173.4	163.2	141.8	120.3	100.1	82.8	67.9	55.4	48.3	44.7	44.1
17.5°	199.6	188.2	163.8	138.2	115.0	94.1	76.3	63.1	54.2	50.0	49.4
20°	228.2	213.3	184.7	154.9	127.5	102.5	82.2	66.7	56.0	51.2	50.6
22.5°	257.3	240.1	206.1	171.6	138.8	110.2	86.4	68.5	56.6	51.2	50.6
25°	288.3	269.3	229.4	189.4	151.3	118.0	90.5	70.3	57.8	51.2	50.6
27.5°	321.1	299.6	253.8	208.5	163.8	125.7	94.7	72.7	58.4	51.8	50.6
30°	356.2	331.8	278.8	227.0	175.7	132.8	98.3	73.9	59.0	51.8	51.2
32.5°	391.4	361.6	306.2	244.8	188.2	139.4	101.9	75.7	59.6	52.4	51.8
35°	425.3	396.2	331.2	263.3	200.2	146.0	104.8	76.8	60.8	53.0	51.8
37.5°	459.9	428.3	355.0	280.6	210.9	151.3	107.2	78.0	61.4	53.6	52.4
40°	492.7	455.7	378.3	297.3	219.8	156.1	109.0	78.6	62.0	54.2	53.0
42.5°	523.6	484.3	400.3	311.6	228.8	159.7	110.8	79.8	62.6	54.8	54.2
45°	549.8	509.3	419.4	325.9	235.3	162.6	112.0	80.4	63.1	55.4	54.8
47.5°	575.5	532.0	437.3	337.2	241.9	165.6	112.6	81.0	63.7	56.6	56.0
50°	598.1	552.2	453.3	347.3	246.6	166.8	113.2	81.6	64.9	57.8	57.2
52.5°	617.2	569.5	465.8	355.6	250.2	168.0	113.2	81.6	65.5	59.0	58.4
55°	632.7	584.4	477.2	361.6	252.6	168.6	113.2	82.2	66.7	60.2	59.6
57.5°	645.8	595.7	486.1	367.0	255.0	168.6	113.2	82.8	67.9	61.4	60.8
60°	655.3	605.2	492.7	370.5	255.6	168.0	113.2	83.4	69.1	63.1	62.6
62.5°	663.0	611.8	498.0	372.9	255.6	166.8	113.2	84.0	70.3	64.9	64.3
65°	668.4	616.6	501.6	374.1	255.0	166.2	113.2	85.2	72.1	66.7	66.1
67.5°	*671.4*	*620.1*	*504.0*	*375.3*	*254.4*	*166.2*	*113.8*	*87.0*	*73.9*	*69.1*	*68.5*
70°	672.6	620.7	504.6	374.7	253.8	165.0	114.4	88.2	76.3	71.5	70.9
72.5°	672.6	621.3	504.6	374.7	252.6	165.6	115.0	90.0	78.6	73.9	73.3
75°	670.8	619.5	504.0	373.5	252.0	165.0	116.8	92.3	81.0	76.8	76.3
77.5°	667.2	617.2	502.2	371.7	251.4	165.6	118.0	94.7	84.0	79.8	79.8
80°	663.0	613.6	499.8	369.9	250.8	166.8	119.7	97.7	87.0	83.4	82.8
82.5°	656.5	608.2	495.6	367.6	249.6	167.4	122.1	100.7	90.5	86.4	86.4
85°	647.5	600.5	490.3	364.6	248.4	168.6	124.5	103.1	94.1	90.0	90.0
87.5°	638.0	592.1	483.7	361.0	247.8	169.8	127.5	106.6	97.1	93.5	92.9
90°	626.7	582.0	477.2	356.8	247.2	171.6	129.9	110.2	101.3	97.7	97.1
92.5°	614.8	571.9	470.0	353.9	246.6	173.4	133.4	114.4	105.4	101.9	101.3
95°	602.9	561.2	462.9	349.7	246.6	175.7	137.0	118.5	109.6	106.0	105.4
97.5°	589.2	549.2	454.5	346.1	246.6	178.7	141.2	122.7	113.8	110.2	110.2
100°	574.9	537.3	446.2	342.5	247.2	181.7	145.4	127.5	118.5	115.0	115.0
102.5°	560.6	524.2	438.4	339.6	248.4	185.9	150.7	132.8	123.9	120.3	119.7
105°	545.1	511.1	429.5	335.4	249.6	189.4	155.5	137.6	128.7	125.1	125.1
107.5°	529.6	497.4	420.6	332.4	250.8	193.0	160.8	143.0	134.0	129.9	129.9
110°	512.3	482.5	411.0	328.8	252.0	197.2	165.0	147.7	138.2	134.6	134.0

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

Scaled Data Report

REPORT NUMBER: P1045890
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	494.4	467.6	400.9	324.1	252.6	200.8	169.8	152.5	143.0	138.8	138.2
115°	475.4	451.0	389.6	319.3	252.6	203.7	173.4	156.1	146.5	142.4	141.8
117.5°	456.3	433.1	377.1	312.8	252.0	205.5	176.3	158.5	148.9	144.8	144.2
120°	436.1	415.2	364.6	306.2	249.6	206.1	177.5	160.2	150.1	146.0	145.4
122.5°	415.2	396.2	349.7	297.3	246.0	205.5	177.5	160.2	150.1	145.4	144.8
125°	392.6	375.9	334.2	286.5	240.7	203.1	176.3	159.1	148.9	144.2	143.0
127.5°	370.5	355.6	318.1	275.8	234.1	199.6	173.9	156.7	146.5	141.8	141.2
130°	349.1	334.2	301.4	263.9	226.4	194.8	169.8	153.1	143.6	138.2	137.6
132.5°	326.5	312.8	284.8	251.4	217.4	188.8	165.6	149.5	139.4	135.2	134.0
135°	303.8	293.1	267.5	238.3	208.5	182.3	160.8	145.4	135.8	131.1	131.1
137.5°	283.6	272.8	250.2	225.2	199.0	174.5	154.9	140.6	131.7	127.5	126.9
140°	262.7	254.4	234.1	212.1	188.8	167.4	150.1	136.4	128.1	123.9	123.3
142.5°	243.1	234.7	218.6	198.4	178.7	159.7	144.2	131.7	123.9	120.3	119.7
145°	223.4	217.4	201.9	185.9	168.6	151.9	137.6	126.9	120.3	116.8	116.8
147.5°	206.1	200.8	187.1	173.4	158.5	144.8	132.2	122.7	116.8	113.8	113.2
150°	189.4	184.7	173.4	162.0	148.3	137.0	126.3	118.5	113.2	110.8	110.2
152.5°	173.9	170.4	160.8	151.3	140.0	129.9	121.5	115.0	110.2	107.8	107.8
155°	160.8	157.9	149.5	141.2	132.2	123.9	116.8	111.4	107.8	106.0	105.4
157.5°	149.5	146.0	139.4	132.8	125.7	118.5	113.2	108.4	106.0	104.3	104.3
160°	138.8	135.8	130.5	125.7	119.7	114.4	109.6	106.6	104.3	103.1	103.1
162.5°	129.9	127.5	123.3	119.1	115.0	110.8	107.2	104.8	103.1	101.9	101.9
165°	122.1	120.9	117.4	114.4	110.8	107.8	105.4	103.7	102.5	101.9	101.9
167.5°	116.2	115.0	112.6	110.2	107.8	105.4	103.7	102.5	101.9	101.3	101.3
170°	111.4	110.2	109.0	107.2	105.4	103.7	102.5	101.9	101.3	101.3	101.3
172.5°	107.8	106.6	106.0	104.8	103.7	102.5	101.9	101.3	101.3	101.3	101.3
175°	104.8	104.3	103.7	103.1	102.5	101.9	101.3	101.3	101.3	101.3	101.3
177.5°	103.1	102.5	102.5	101.9	101.9	101.3	101.3	101.9	101.9	101.9	102.5
180°	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1

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

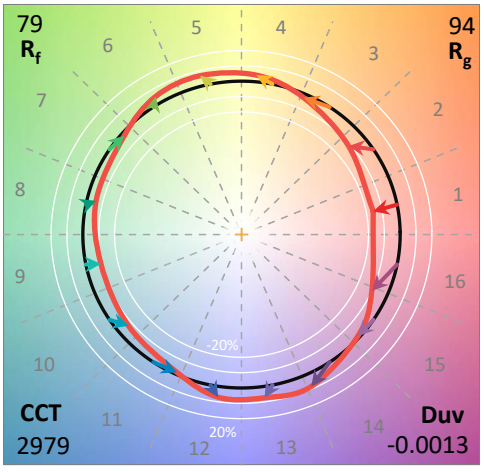
Test Information

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

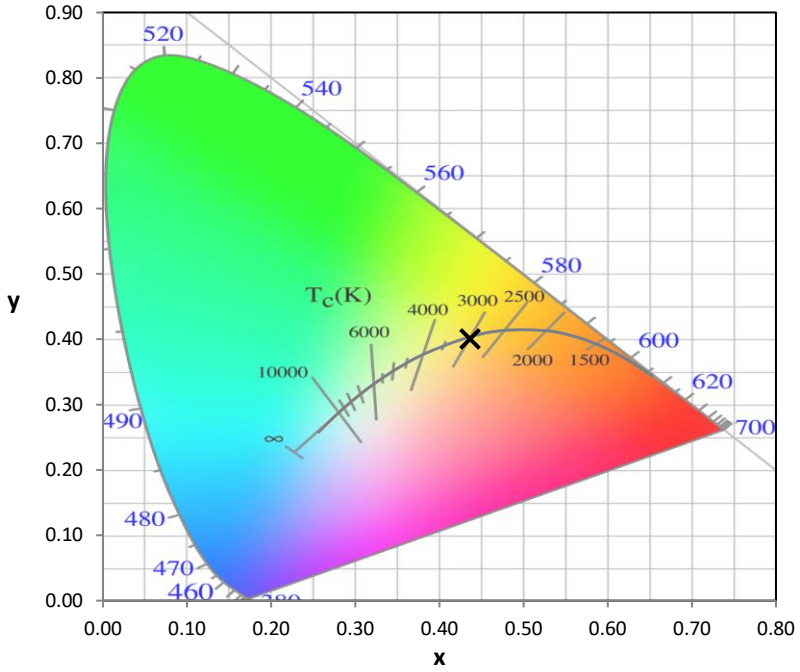
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

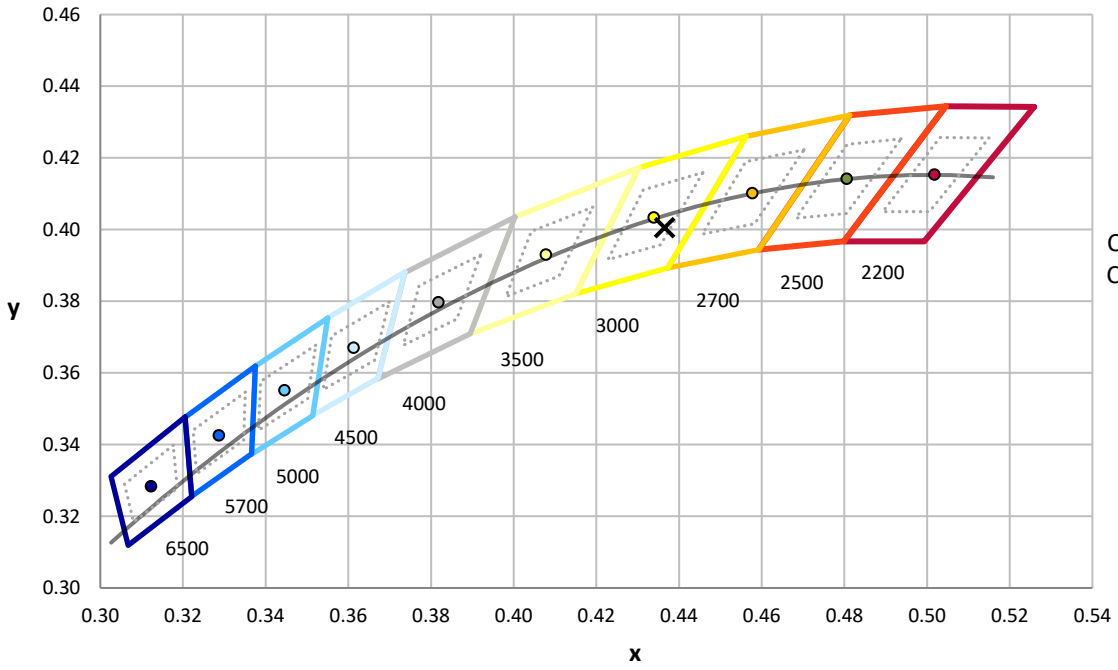
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

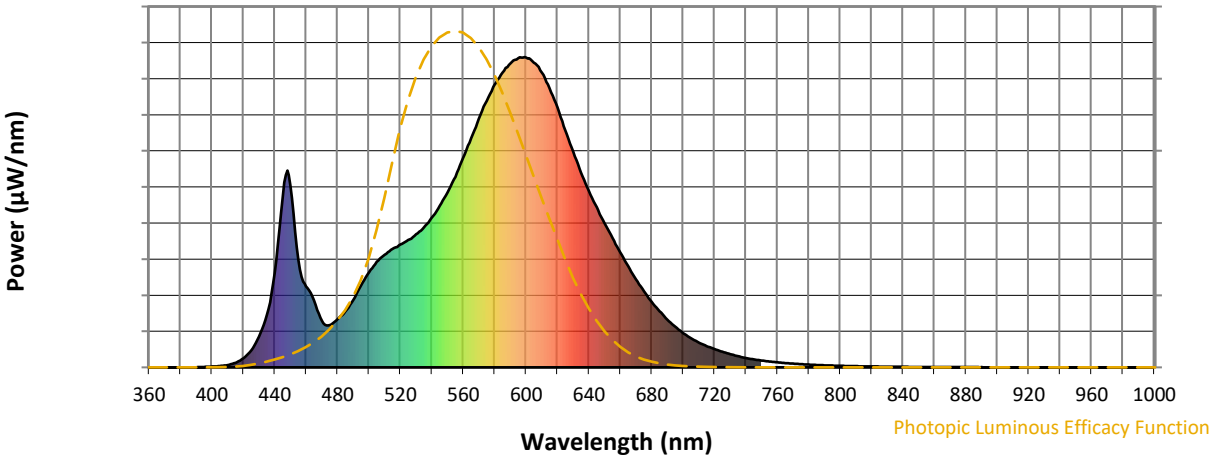


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

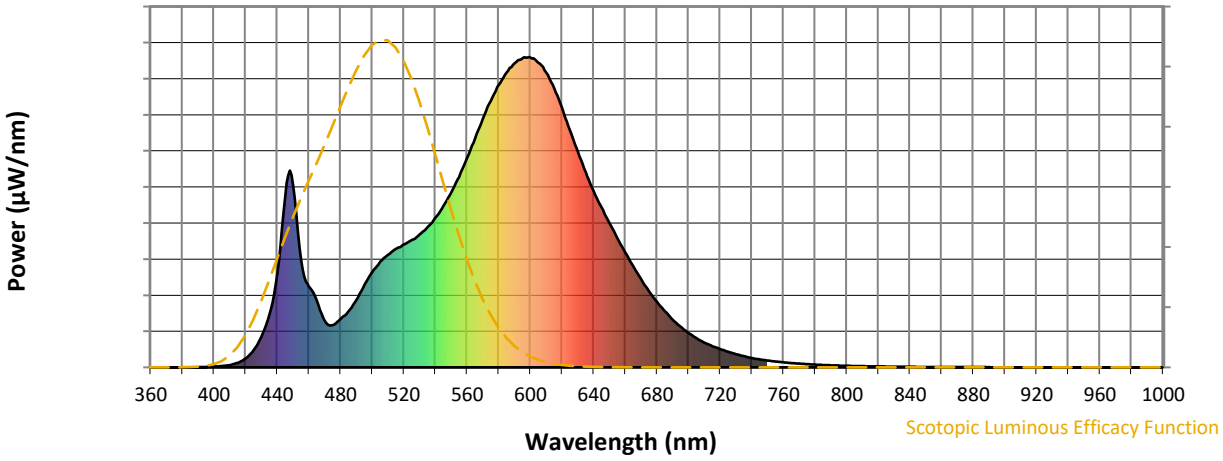


Photopic Lumens: NR

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

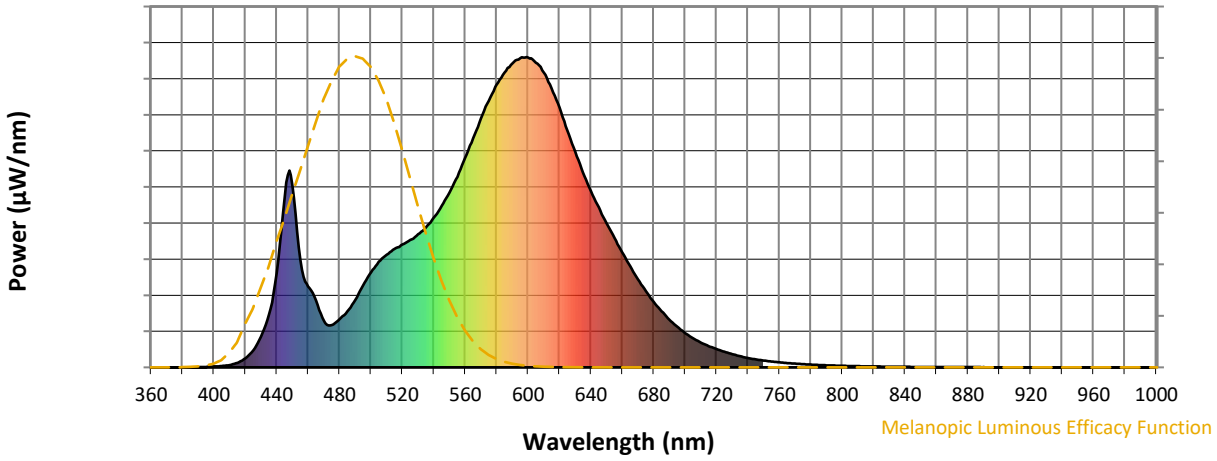


Scotopic Lumens: NR **S/P: 1.29**

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			

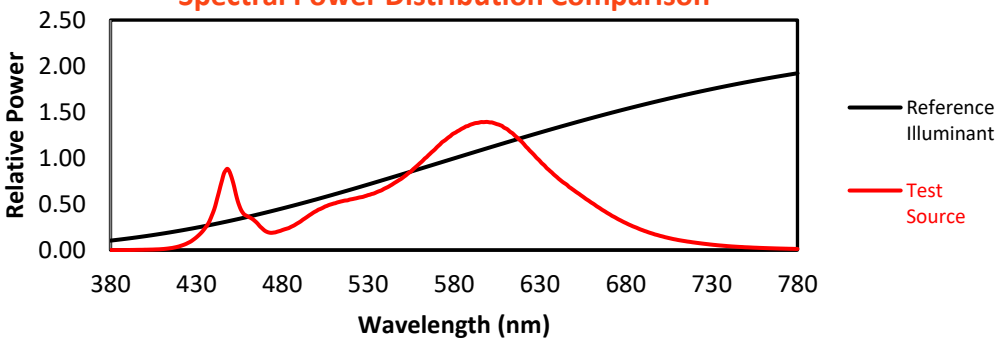
REPORT NUMBER: SP1-2501-332-9

TM-30-18

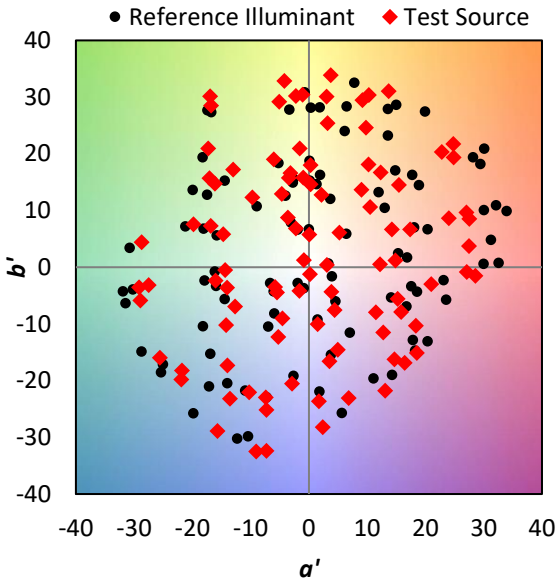
Summary

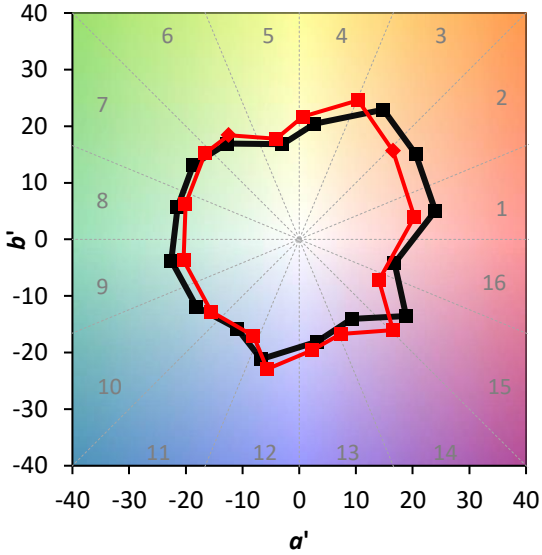
R_f = 79.2
R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

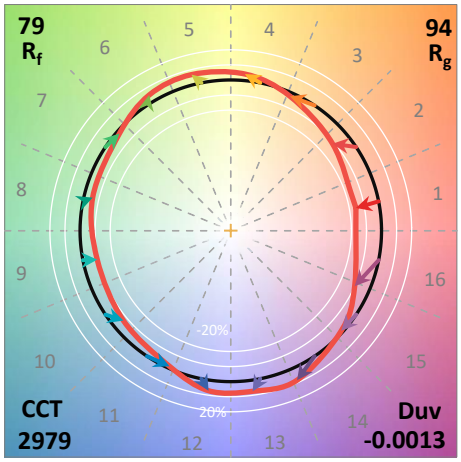
Spectral Power Distribution Comparison

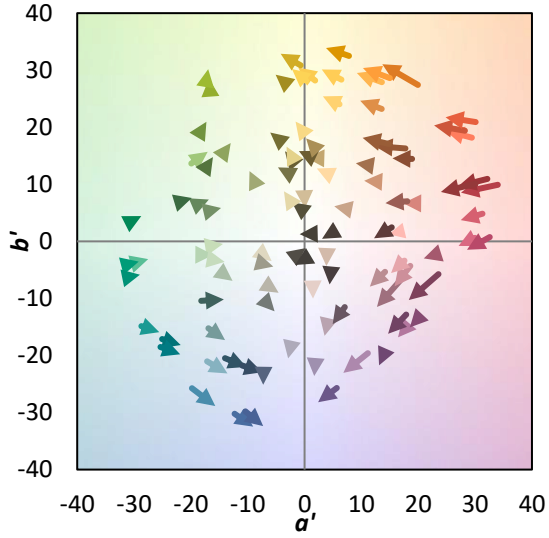


Color Vector Graphics







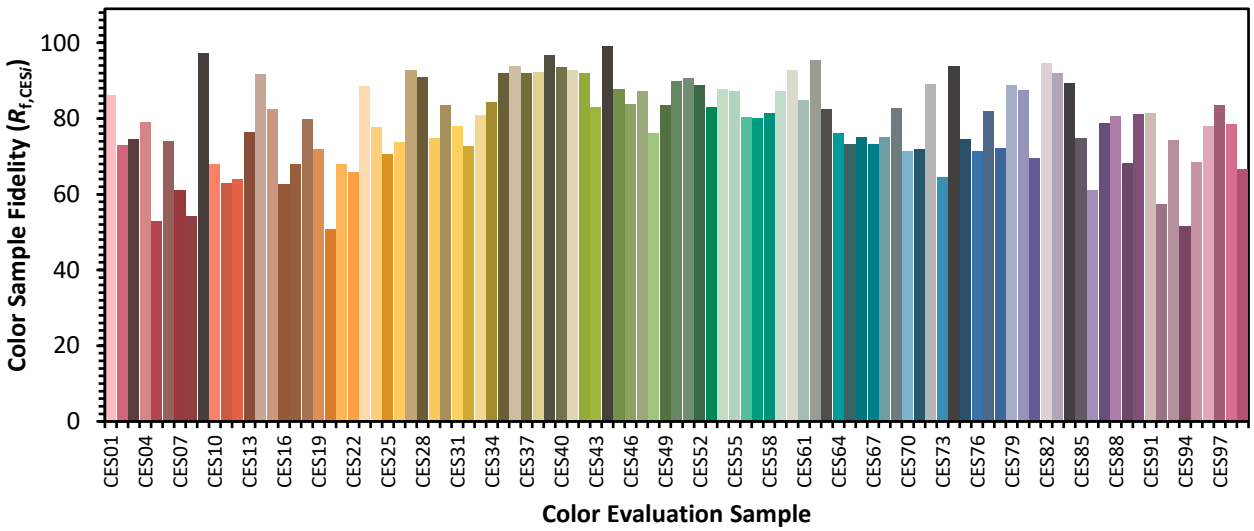


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

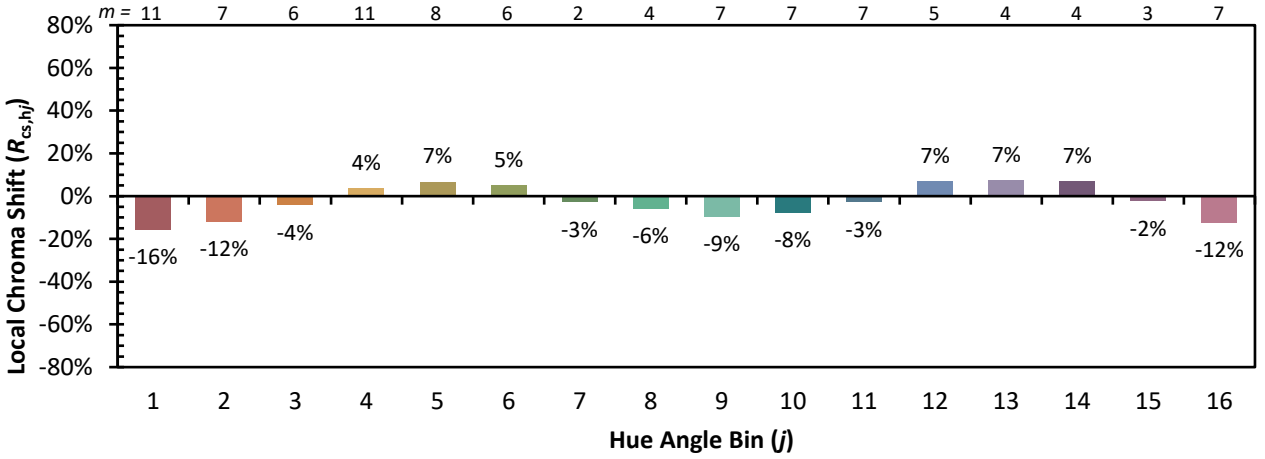
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 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	

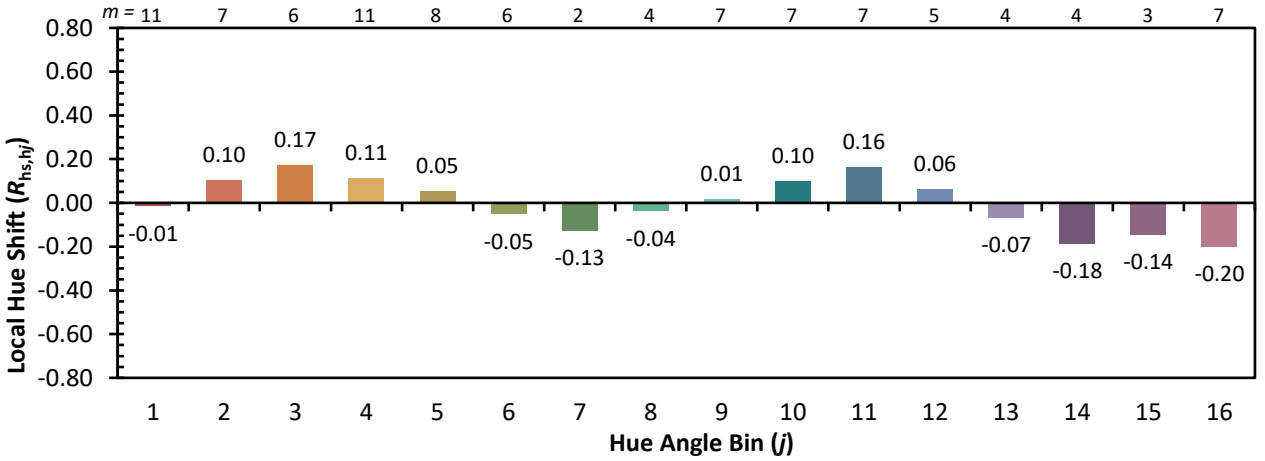


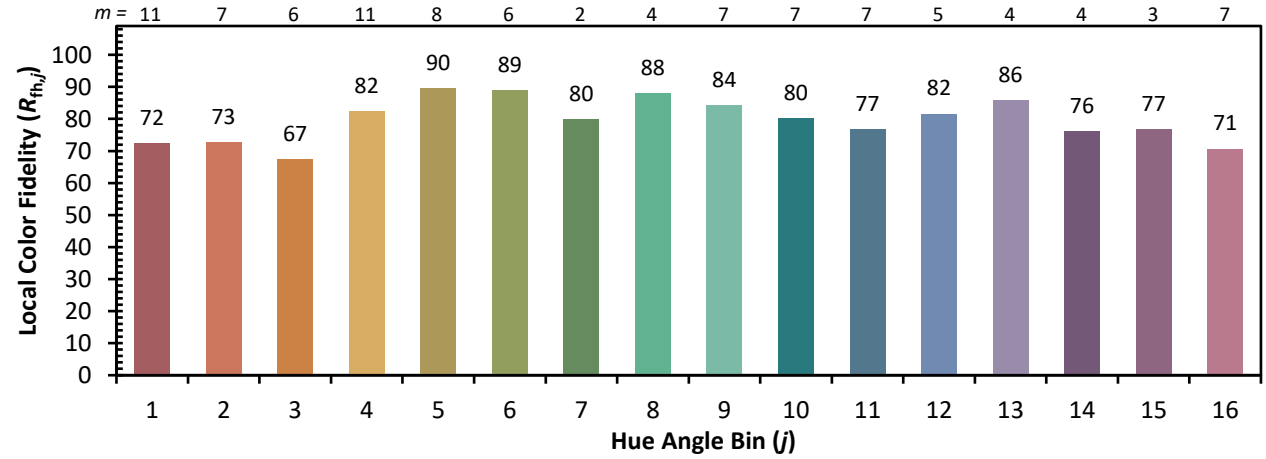
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



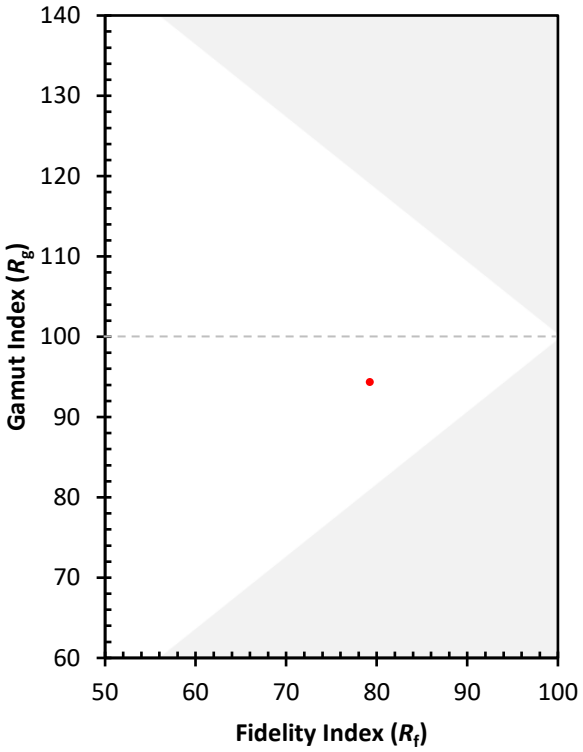


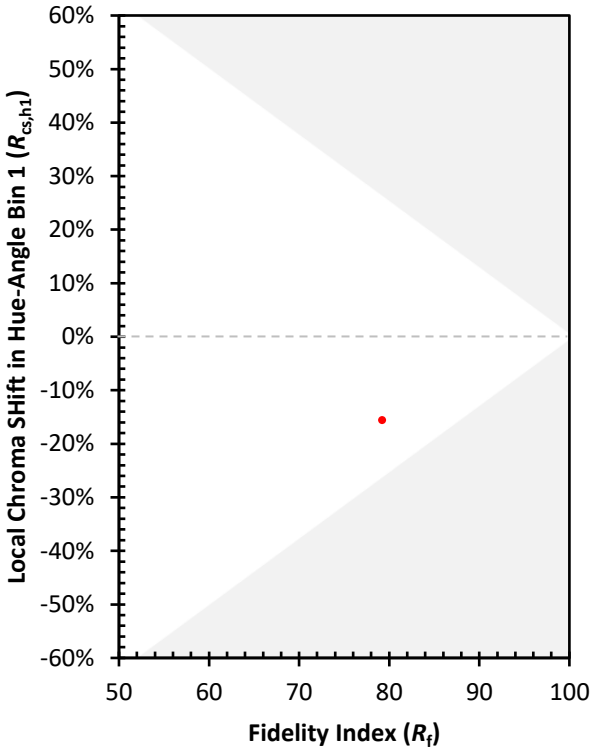


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)