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: P1046566

Luminaire Tested: **FFX-CLB-40-730-U-FR-T3-UPLR-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:	P1046566
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-730-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5562.5 lumens
Efficiency:	N/A
Efficacy:	141.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G3

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

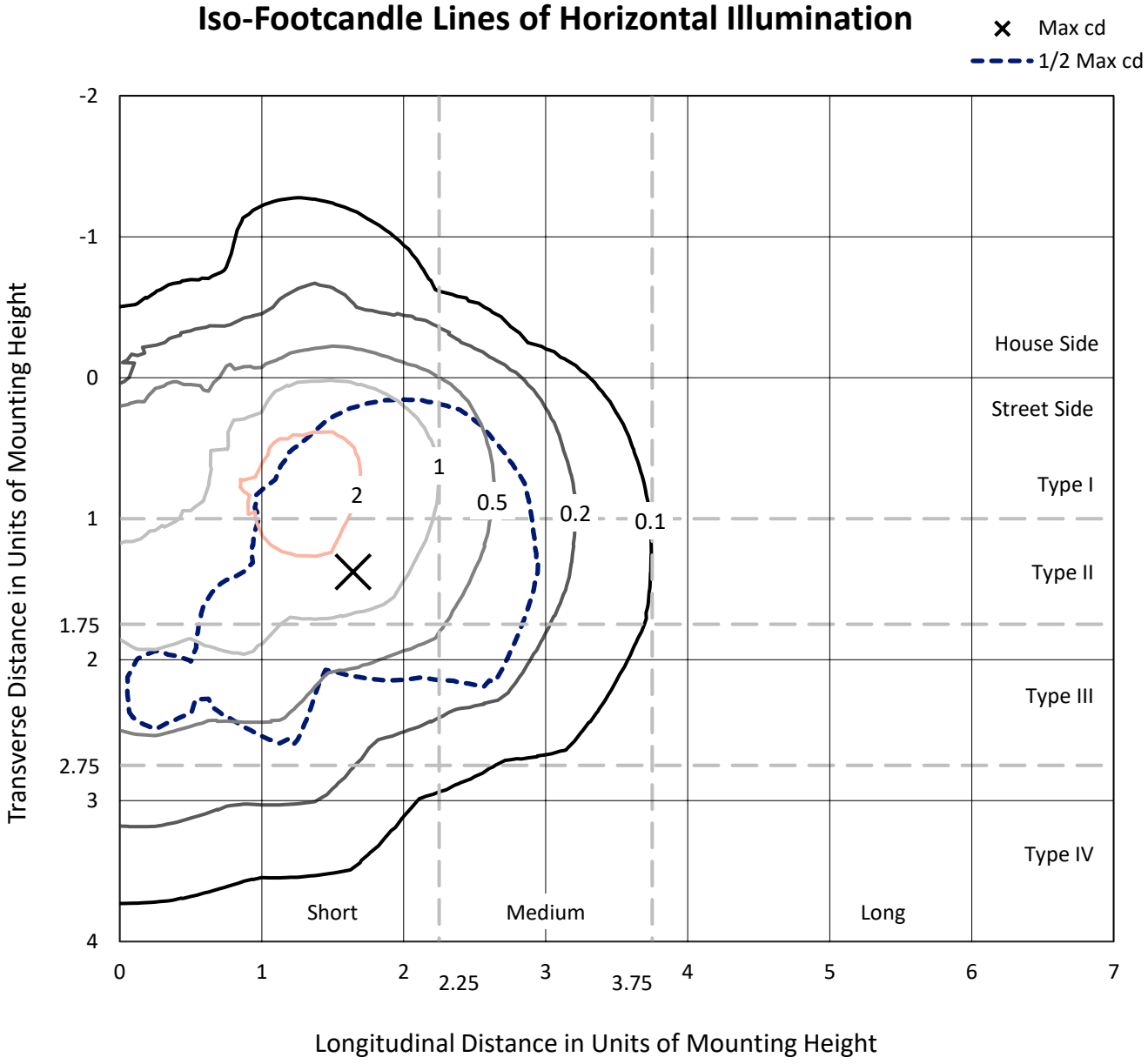


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



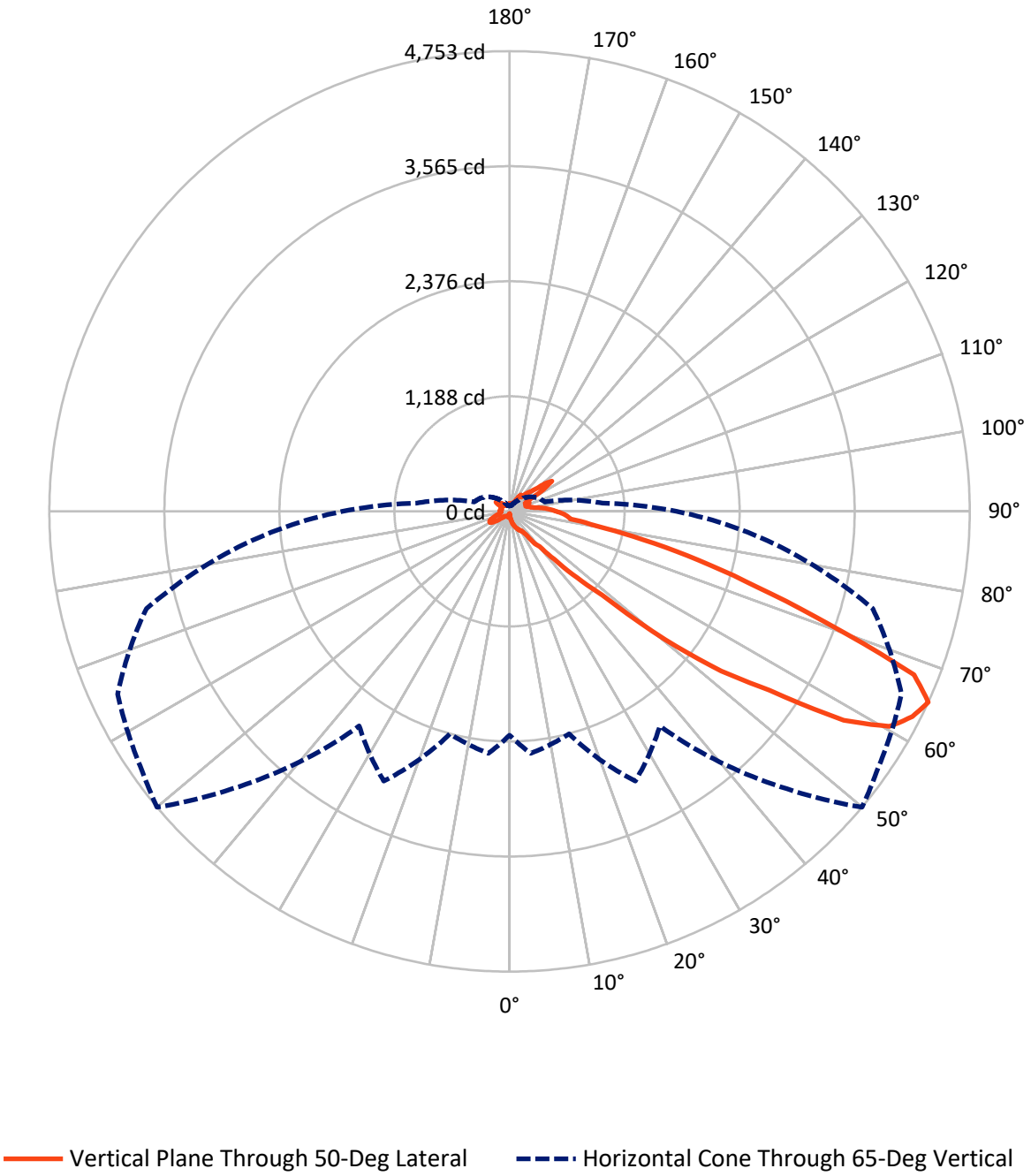
Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

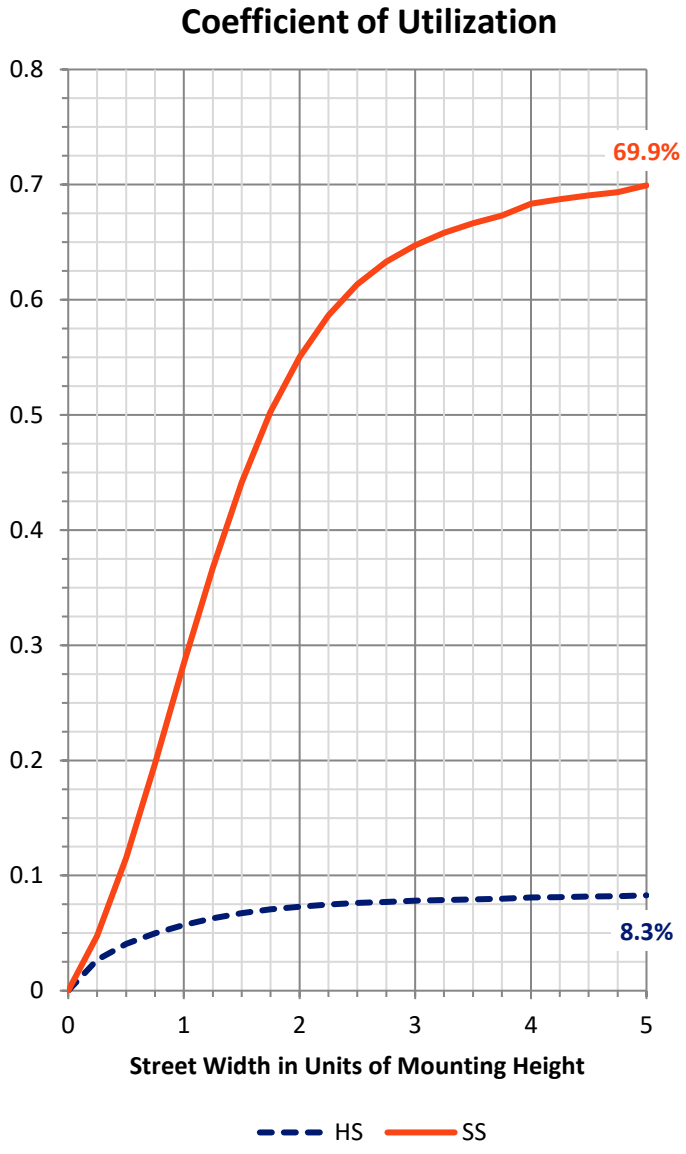
REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.9	321.2	809.1
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	4023.8	729.6	4753.4
	% Fixture	72.3	13.1	85.5
Total	Lumens	4511.7	1050.8	5562.5
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	29.0	0.5
20°-30°	62.0	1.1
30°-40°	123.8	2.2
40°-50°	324.3	5.8
50°-60°	1074.3	19.3
60°-70°	1694.2	30.5
70°-80°	884.7	15.9
80°-90°	314.1	5.6
90°-100°	202.7	3.6
100°-110°	136.8	2.5
110°-120°	156.0	2.8
120°-130°	258.6	4.6
130°-140°	147.7	2.7
140°-150°	80.9	1.5
150°-160°	39.6	0.7
160°-170°	21.0	0.4
170°-180°	7.5	0.1
0°-90°	4511.7	81.1
0°-180°	5562.5	100.0



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

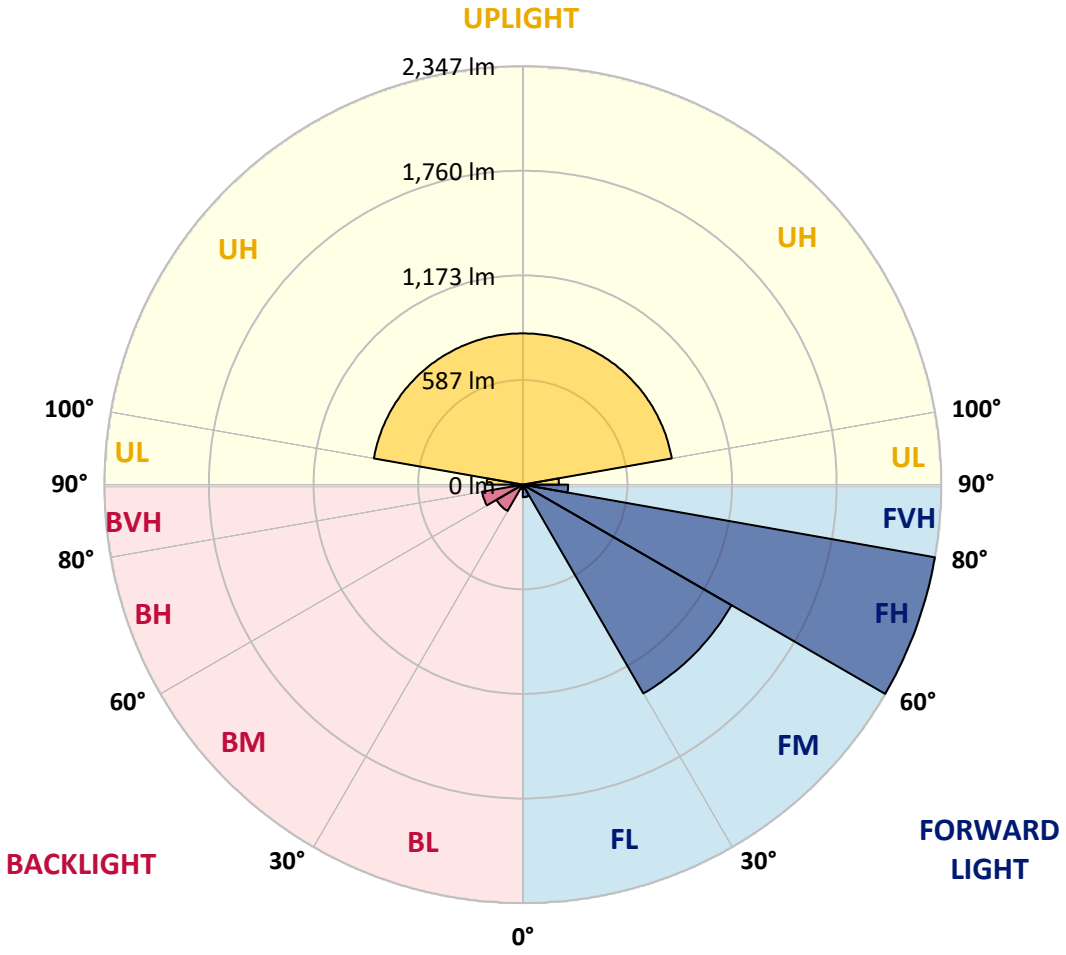
Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	70.8	1.3			
FM	(30°-60°)	1351.8	24.3			
FH	(60°-80°)	2346.9	42.2			G2/5000
FVH	(80°-90°)	254.4	4.6			G3/500
BL	(0°-30°)	25.6	0.5	B0/110		
BM	(30°-60°)	170.5	3.1	B0/220		
BH	(60°-80°)	232.0	4.2	B1/500		G1/500
BVH	(80°-90°)	59.8	1.1			G1/100
UL	(90°-100°)	202.7	3.6		U3/500	
UH	(100°-180°)	848.1	15.2		U4/1000	

BUG Rating: B1-U4-G3
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
2.5°	37.7	37.3	38.1	39.3	38.9	37.7	37.0	36.6	35.4	35.0	33.8
5°	55.8	55.4	54.6	55.4	55.8	54.3	53.5	51.5	49.5	46.0	44.0
7.5°	78.2	78.6	79.4	77.4	76.7	73.1	72.3	70.4	67.2	62.9	61.7
10°	106.1	106.5	108.5	105.4	100.2	95.9	95.1	95.9	99.5	88.5	81.8
12.5°	133.7	132.5	138.4	136.8	130.1	123.8	120.7	121.1	119.5	111.3	100.2
15°	159.2	159.2	163.5	165.1	158.0	143.5	138.8	137.6	136.8	128.2	112.8
17.5°	175.3	176.1	176.5	176.5	174.2	162.0	156.5	154.1	147.0	139.2	125.0
20°	188.7	189.1	185.6	185.9	189.5	178.9	173.4	168.6	161.2	152.9	135.2
22.5°	207.2	206.4	200.9	198.5	206.4	197.3	191.4	186.3	177.3	167.9	151.7
25°	227.6	226.8	221.3	215.4	220.9	212.7	206.4	201.7	193.4	187.1	154.1
27.5°	247.3	246.5	237.1	236.3	231.5	227.6	220.9	219.8	213.5	195.0	152.9
30°	261.8	261.0	250.8	251.2	239.0	242.2	232.3	231.5	224.1	199.7	155.7
32.5°	267.3	268.1	263.8	261.8	245.3	257.9	248.8	245.7	243.7	212.3	169.4
35°	287.4	293.7	300.3	302.7	287.8	311.4	292.9	290.5	295.2	258.3	211.5
37.5°	441.9	438.7	414.0	379.0	371.1	423.0	420.2	422.2	419.1	367.6	279.9
40°	442.3	444.2	428.5	407.3	382.5	435.6	476.1	440.3	492.6	400.6	307.0
42.5°	464.7	458.4	495.7	504.0	476.5	555.5	675.0	540.1	653.0	488.3	417.9
45°	550.0	550.0	556.7	560.6	550.8	749.3	980.4	753.6	872.7	610.9	501.6
47.5°	638.0	630.6	668.7	732.8	770.9	964.3	1294.1	995.8	1183.7	821.2	696.2
50°	889.6	900.2	973.4	1048.1	1105.1	1435.7	2083.5	1706.1	1933.4	1262.7	1063.0
52.5°	1085.0	1147.1	1203.3	1412.9	1438.4	1961.7	2738.9	2289.1	2477.0	1774.1	1316.2
55°	1286.7	1409.7	1443.1	1813.1	1842.2	2520.7	3260.5	2899.6	2952.7	2339.1	1562.6
57.5°	1656.2	1828.0	1839.4	2234.1	2232.9	3247.6	4070.7	3775.9	3735.8	2978.7	1940.4
60°	1974.2	2170.0	2100.0	2646.9	2524.2	3783.4	4509.9	4212.7	4125.0	3491.7	2206.2
62.5°	2167.3	2358.3	2272.2	2918.9	2710.2	4039.7	4668.7	4495.3	4345.9	3802.2	2422.8
65°	2311.1	2508.1	2379.2	3073.4	2706.6	4052.3	4752.8	4640.8	4465.8	3883.2	2470.4
67.5°	2292.3	2484.5	2330.0	3012.1	2517.5	3690.2	4505.5	4366.0	4149.8	3570.7	2310.4
70°	1987.6	2103.6	1933.8	2565.5	2012.8	2854.4	3509.8	3429.2	3221.2	2733.4	1787.1
72.5°	1673.1	1701.8	1542.6	2008.1	1569.3	2079.6	2666.9	2580.8	2444.4	2028.5	1350.8
75°	1292.2	1292.2	1201.0	1505.6	1166.0	1475.8	2018.7	1996.7	1912.5	1522.2	1025.6
77.5°	872.7	827.1	813.4	1017.0	805.5	973.8	1405.4	1457.3	1435.3	1089.7	747.7
80°	508.7	519.7	500.4	627.8	529.9	636.9	901.8	970.2	968.3	723.7	490.6
82.5°	396.7	404.5	384.5	452.1	404.5	501.2	632.1	627.8	642.7	524.4	369.1
85°	390.8	396.7	375.8	417.9	388.4	476.1	594.0	592.8	589.7	485.5	346.7
87.5°	355.4	363.2	345.2	379.0	352.2	434.8	539.8	546.0	537.0	455.2	333.4
90°	297.2	305.5	297.6	336.9	309.4	375.0	469.4	474.1	466.2	405.7	300.7
92.5°	267.3	272.8	263.4	297.6	268.5	329.4	414.7	417.5	405.3	357.0	260.2
95°	246.5	252.0	240.2	265.4	237.1	290.5	353.0	362.1	344.0	301.1	221.7
97.5°	204.8	201.3	196.6	218.2	196.2	228.8	270.1	276.8	265.4	233.5	176.5
100°	177.3	178.5	176.5	192.2	172.2	196.6	228.8	231.5	226.8	203.6	159.6
102.5°	171.8	172.2	175.7	186.3	163.1	180.8	208.4	209.9	208.7	186.7	147.4
105°	170.2	169.8	171.8	183.2	159.2	165.5	191.8	192.6	188.7	173.8	138.0
107.5°	160.8	162.0	161.6	171.8	156.5	157.2	174.2	173.8	173.0	159.2	130.5
110°	184.4	182.4	174.2	174.5	159.6	163.5	180.4	178.5	174.5	166.3	142.3

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

Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	262.2	256.7	247.3	216.2	200.5	211.5	*222.9*	224.9	220.5	213.1	180.0
115°	290.9	290.1	279.5	259.1	207.2	211.1	*218.6*	221.7	226.8	212.3	184.4
117.5°	238.6	251.6	235.1	237.8	208.4	183.2	*182.0*	175.7	178.5	176.9	170.6
120°	301.1	303.5	270.1	263.8	243.3	251.6	*252.0*	252.8	244.5	204.8	180.4
122.5°	423.4	423.4	432.8	450.1	439.5	424.6	*415.9*	407.3	395.9	358.1	306.2
125°	537.0	536.2	531.1	539.8	529.1	535.0	*537.8*	540.1	528.0	482.0	411.2
127.5°	432.8	443.8	462.3	509.1	479.6	471.3	*463.5*	469.0	459.9	451.3	407.3
130°	335.3	336.5	366.8	396.7	394.3	368.0	*358.9*	343.2	346.7	345.6	319.2
132.5°	286.6	288.2	305.8	322.8	336.9	317.6	*299.9*	291.7	294.4	292.5	275.6
135°	250.4	250.4	244.1	242.2	254.0	271.6	*269.7*	259.1	254.0	248.1	222.9
137.5°	216.6	215.8	204.4	198.1	207.6	230.4	*231.9*	231.9	226.8	212.7	194.6
140°	178.5	177.3	171.4	172.6	174.9	190.3	*191.4*	195.0	194.2	182.8	160.8
142.5°	135.2	135.6	144.3	154.1	159.6	192.6	*187.5*	183.6	196.2	195.4	140.3
145°	180.4	176.5	176.5	172.2	185.2	217.8	*207.6*	210.7	227.2	211.9	151.7
147.5°	165.5	167.5	167.9	167.1	183.6	185.6	*178.1*	178.5	184.4	184.4	155.3
150°	128.2	125.0	125.8	127.4	144.7	143.5	*136.8*	136.4	141.1	140.0	127.0
152.5°	101.4	101.0	100.6	102.2	116.4	110.5	*107.7*	106.5	105.7	104.6	101.4
155°	95.5	95.1	94.3	96.3	104.6	101.8	*100.2*	100.2	98.3	96.3	94.3
157.5°	84.9	84.5	84.9	88.8	93.6	90.4	*90.0*	89.6	88.8	86.5	85.7
160°	79.4	79.0	79.8	82.9	84.9	82.2	*81.4*	81.8	81.4	80.2	81.8
162.5°	75.1	75.1	75.1	77.1	77.8	75.9	*75.5*	75.9	76.3	76.3	78.2
165°	72.7	72.7	73.1	74.3	74.3	73.5	*72.7*	72.7	74.7	75.5	77.1
167.5°	74.3	74.3	74.7	75.1	75.1	74.3	*74.3*	74.7	75.9	76.7	76.7
170°	76.7	76.7	76.7	77.1	76.7	75.5	*75.5*	75.5	75.9	75.9	76.3
172.5°	79.4	79.4	79.4	79.0	78.2	77.8	*77.1*	77.1	77.4	77.1	77.4
175°	83.3	82.9	82.9	82.6	82.2	81.8	*81.4*	81.0	81.0	79.8	79.8
177.5°	85.3	84.9	85.3	85.3	84.9	84.1	*83.3*	83.3	82.9	82.2	81.8
180°	82.2	82.2	82.2	82.2	82.2	82.2	*82.2*	82.2	82.2	82.2	82.2

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

Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
2.5°	33.0	31.8	28.7	25.9	24.0	23.2	23.2	22.0	20.4	19.3	18.9
5°	43.6	42.8	41.7	40.1	36.6	31.8	27.9	26.3	25.6	25.2	24.8
7.5°	61.7	62.5	64.1	63.7	57.0	44.4	37.0	36.6	40.9	45.6	47.2
10°	79.8	79.0	84.1	88.5	71.9	50.3	38.1	37.0	42.8	51.1	52.3
12.5°	95.5	91.6	88.8	84.1	68.8	50.3	40.9	38.5	41.3	47.6	47.6
15°	107.3	102.2	90.8	79.8	66.0	51.9	42.5	40.9	40.9	38.9	39.3
17.5°	116.4	106.9	90.4	76.3	61.3	49.5	42.1	37.7	35.4	32.2	31.4
20°	127.0	120.3	98.3	78.6	60.5	48.0	40.9	35.8	33.0	31.8	31.4
22.5°	138.4	124.6	103.4	79.4	60.5	48.7	40.5	35.0	32.6	31.8	31.8
25°	139.6	127.8	106.1	82.6	62.5	50.3	41.3	35.4	33.0	32.2	31.8
27.5°	138.0	129.7	110.9	86.1	64.5	51.9	42.8	36.2	33.0	31.8	31.4
30°	143.9	137.2	116.4	88.5	66.4	53.9	44.4	37.7	33.8	31.4	31.1
32.5°	158.8	149.4	123.8	90.0	67.2	54.3	46.0	39.3	34.6	31.8	31.4
35°	198.1	189.5	152.5	95.5	67.2	55.0	47.2	40.5	35.4	32.2	31.8
37.5°	255.1	239.0	187.5	114.0	68.0	56.6	48.4	42.1	36.6	33.0	32.2
40°	270.5	228.4	159.2	102.2	69.6	58.2	50.3	43.6	38.1	34.2	33.8
42.5°	351.1	292.1	196.6	108.1	74.3	59.4	51.5	45.2	39.3	35.4	34.6
45°	375.8	292.5	199.7	125.0	87.3	64.5	53.5	46.4	40.1	36.2	35.8
47.5°	492.6	362.8	203.6	134.1	97.9	74.3	58.2	48.0	40.9	37.0	36.6
50°	722.2	511.8	252.8	167.5	121.1	90.8	68.4	51.1	41.7	38.1	37.3
52.5°	901.0	614.1	274.0	204.8	160.8	119.9	86.1	59.4	44.0	38.9	38.1
55°	1098.4	754.4	311.4	246.9	195.0	150.2	109.3	71.5	48.7	40.1	39.3
57.5°	1370.0	900.6	365.6	291.3	236.7	175.3	124.6	83.7	55.0	42.8	41.3
60°	1535.1	962.7	374.2	315.3	261.4	195.4	131.3	88.8	61.7	46.8	44.4
62.5°	1693.2	1005.6	376.6	324.7	267.3	199.3	132.1	86.5	64.1	52.3	49.1
65°	*1725.4*	*963.1*	*377.4*	*326.7*	*260.2*	*189.1*	*127.8*	*84.1*	*61.3*	*57.0*	*57.4*
67.5°	1616.5	855.4	349.9	312.5	241.4	168.6	114.8	80.6	60.5	56.2	57.4
70°	1271.0	670.3	319.6	289.7	204.8	143.5	102.2	75.9	60.5	54.3	53.1
72.5°	986.7	572.8	327.5	275.2	175.3	128.2	92.4	70.8	58.6	53.9	53.1
75°	765.8	478.0	322.8	242.2	143.1	110.1	82.9	64.9	55.8	53.1	52.7
77.5°	559.8	377.0	266.9	185.6	118.7	93.6	73.1	60.9	54.3	51.9	51.5
80°	360.1	263.8	185.9	148.2	104.2	85.3	68.4	58.2	53.5	51.9	51.5
82.5°	303.5	239.4	167.5	140.3	100.6	86.9	71.5	60.9	56.2	54.6	54.3
85°	292.1	246.5	172.2	146.2	96.3	82.9	70.0	60.9	56.6	54.6	54.3
87.5°	277.5	222.9	169.8	134.4	92.8	79.8	68.8	62.5	58.2	57.0	56.6
90°	251.2	196.6	155.7	125.0	97.9	84.9	75.9	69.2	64.9	62.1	61.3
92.5°	211.9	158.0	133.7	123.4	107.3	96.3	87.3	81.4	76.7	73.9	72.7
95°	178.5	138.0	116.4	109.3	94.7	86.5	77.8	73.5	70.0	67.6	67.6
97.5°	145.5	118.3	108.1	102.6	90.8	81.8	74.7	70.4	69.2	68.4	68.0
100°	136.8	116.0	108.9	104.2	94.7	86.5	81.0	77.1	76.7	76.3	76.3
102.5°	127.0	109.7	101.8	97.1	87.7	80.6	76.7	73.5	72.3	71.2	70.0
105°	119.9	103.8	97.9	91.6	84.1	77.1	73.1	68.4	67.6	67.2	67.2
107.5°	116.4	103.0	99.9	90.0	82.9	79.8	75.1	69.2	68.0	66.4	66.4
110°	128.5	114.4	105.4	93.2	85.7	82.9	81.8	76.7	72.7	68.0	67.6

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

Scaled Data Report

REPORT NUMBER: P1046566
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	159.2	140.0	129.3	111.3	95.9	89.2	84.1	78.6	76.3	73.1	71.9
115°	171.4	151.7	138.4	120.3	102.6	90.8	83.3	82.6	80.2	78.2	80.2
117.5°	175.7	138.0	114.0	109.7	96.3	86.9	83.3	82.2	82.9	82.9	79.4
120°	189.5	149.0	140.0	134.4	109.3	94.0	86.1	90.0	89.2	84.5	84.5
122.5°	282.7	252.4	222.5	185.6	154.1	136.0	109.3	91.6	88.1	84.9	82.9
125°	372.3	345.2	298.4	249.2	195.0	144.3	108.5	95.9	89.2	85.3	86.1
127.5°	379.4	350.7	297.2	237.1	174.2	134.8	109.3	98.3	90.8	86.5	85.7
130°	296.4	276.0	235.9	191.8	147.8	120.7	101.0	90.0	83.3	79.4	78.6
132.5°	262.2	244.9	203.2	164.7	134.8	112.0	95.1	82.9	78.2	75.5	75.1
135°	209.5	195.0	167.1	146.2	125.4	106.5	89.6	78.2	73.9	73.5	72.7
137.5°	183.6	171.8	150.2	132.9	115.6	97.5	83.3	73.9	71.9	72.3	71.2
140°	149.8	144.7	132.5	117.5	99.1	80.2	70.4	67.2	70.4	71.9	71.9
142.5°	128.5	121.9	108.1	90.8	79.0	70.4	69.2	68.0	69.6	70.4	70.4
145°	118.3	110.5	99.1	92.8	87.3	79.8	73.5	68.0	66.4	66.8	66.8
147.5°	133.7	124.6	117.1	105.4	92.0	79.4	70.0	63.7	63.7	65.3	65.7
150°	110.9	103.0	97.9	91.2	81.0	70.8	64.1	60.9	62.1	65.3	65.7
152.5°	92.8	83.3	80.2	76.3	70.8	65.3	62.1	60.5	62.5	64.9	64.9
155°	90.4	82.2	78.2	74.3	69.2	64.5	61.7	60.9	62.9	64.5	64.9
157.5°	84.9	80.2	75.1	71.9	68.0	64.5	62.5	61.7	63.3	64.5	64.9
160°	81.8	79.0	73.1	70.4	66.8	64.5	64.1	64.1	64.9	65.3	65.3
162.5°	78.2	76.7	73.1	70.8	68.4	67.2	68.0	68.4	68.4	68.0	68.0
165°	77.1	76.3	73.1	71.2	70.0	70.4	71.9	72.3	71.2	70.4	70.4
167.5°	76.7	76.7	74.3	72.7	72.3	73.1	74.7	74.7	73.5	71.9	71.5
170°	76.7	77.1	76.3	76.3	75.5	75.9	76.3	76.3	75.5	74.7	74.3
172.5°	77.8	77.8	77.8	77.8	77.4	77.8	78.2	78.2	78.2	77.8	77.8
175°	79.8	79.8	79.8	79.4	79.0	79.0	79.4	79.8	80.2	80.2	80.2
177.5°	81.8	81.4	81.0	81.4	81.0	81.0	81.8	82.2	82.6	82.6	82.6
180°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2

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: SP1-2501-332-9

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

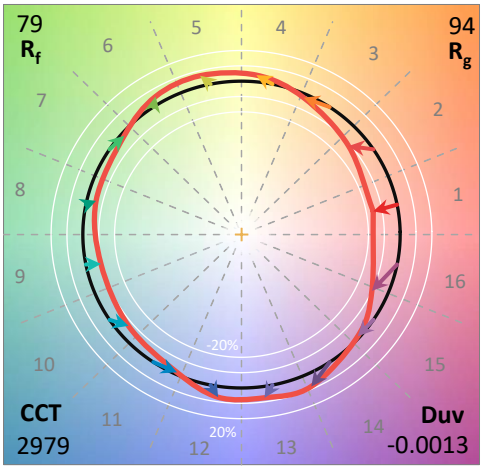
Test Information

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

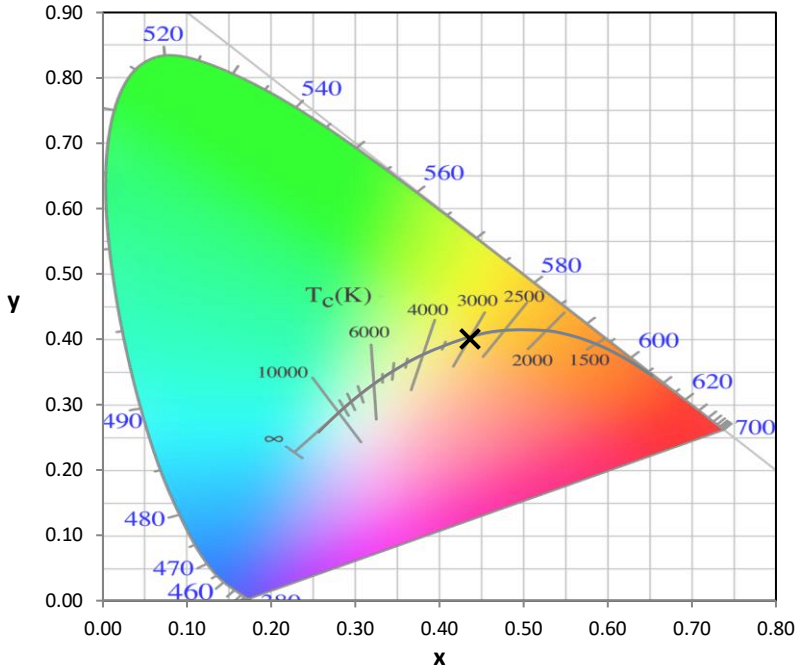
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

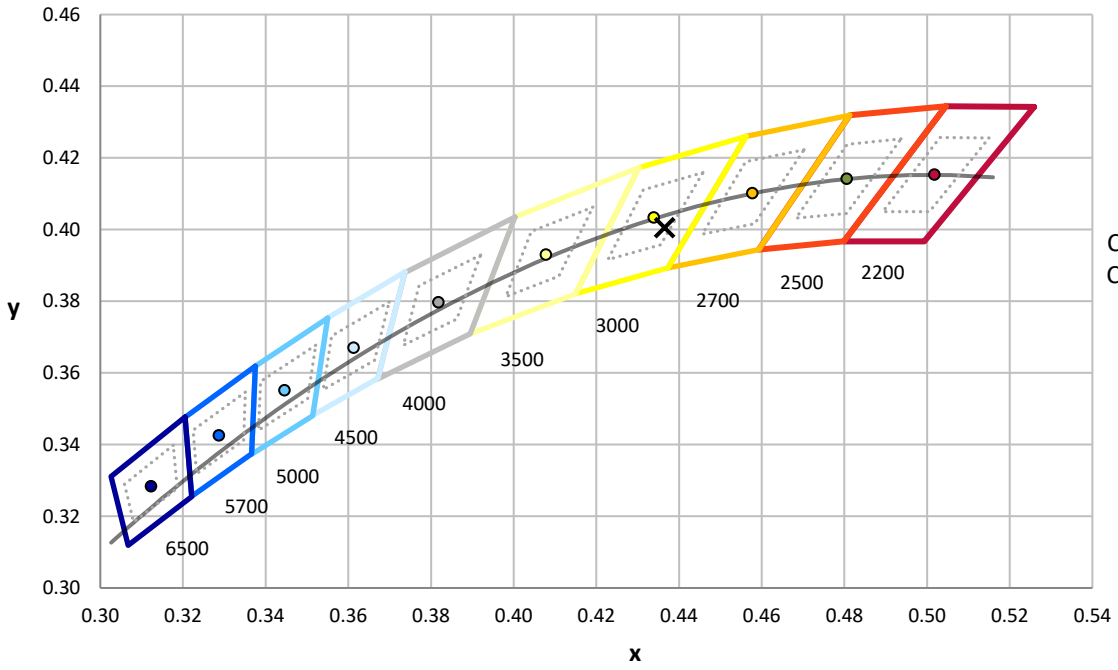
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

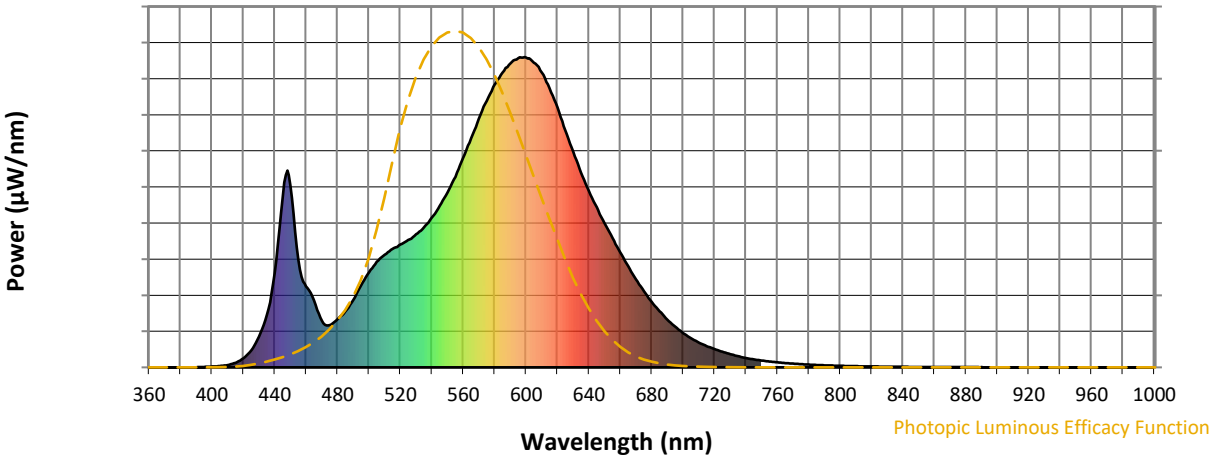


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

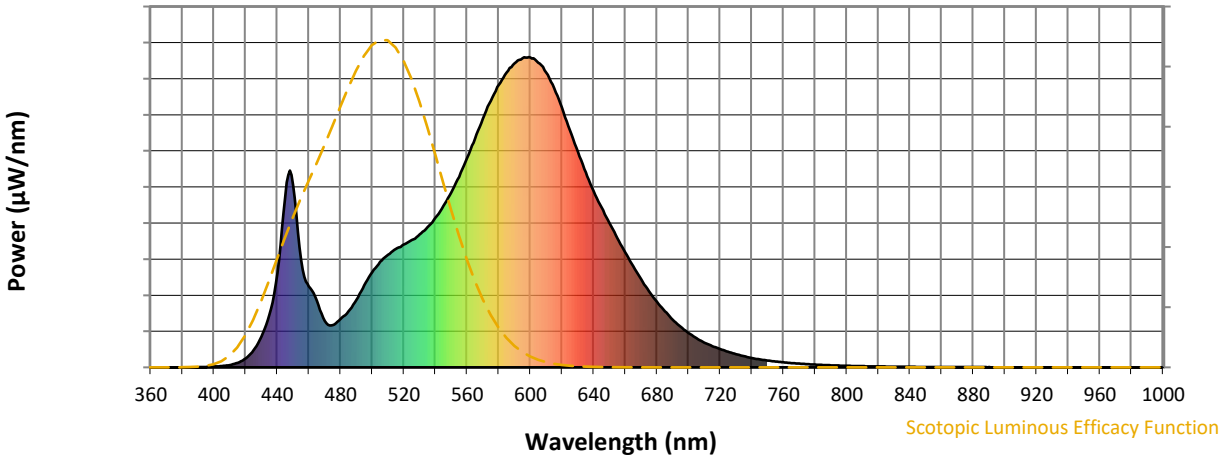


Photopic Lumens: NR

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

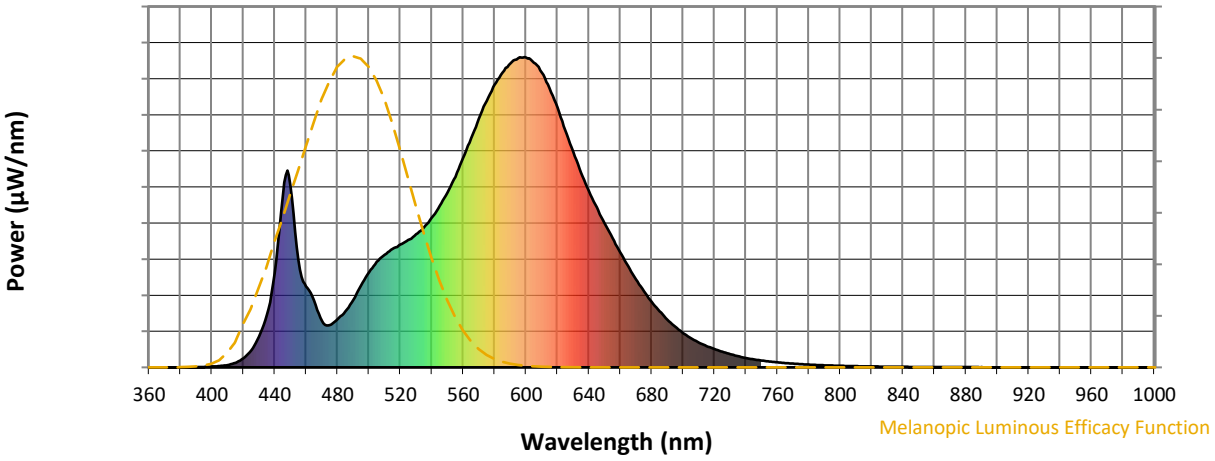


Scotopic Lumens: NR **S/P: 1.29**

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			

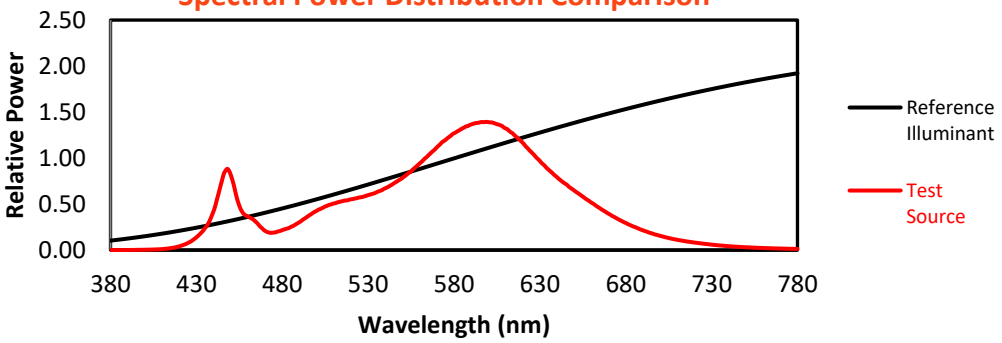
REPORT NUMBER: SP1-2501-332-9

TM-30-18

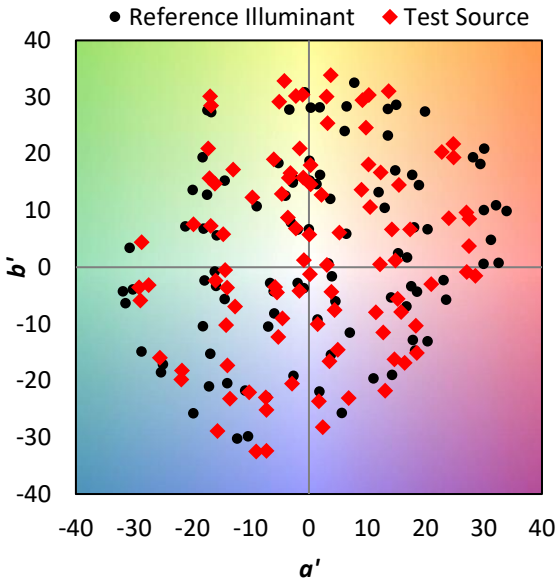
Summary

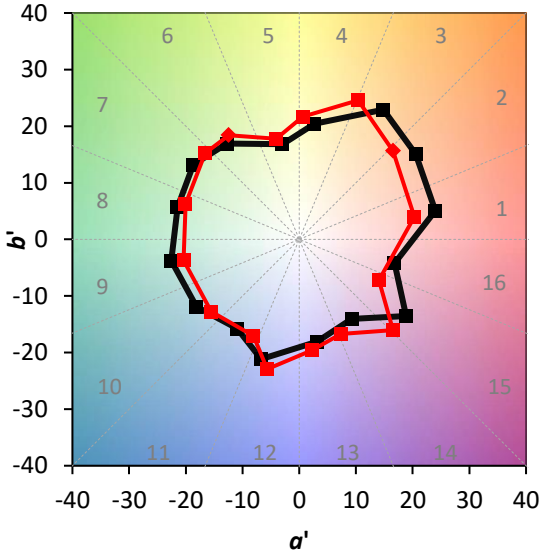
R_f = 79.2
R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

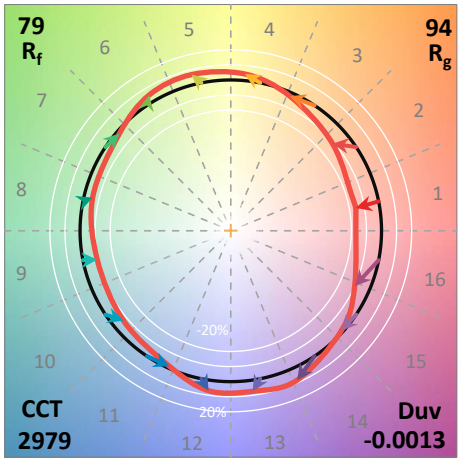
Spectral Power Distribution Comparison

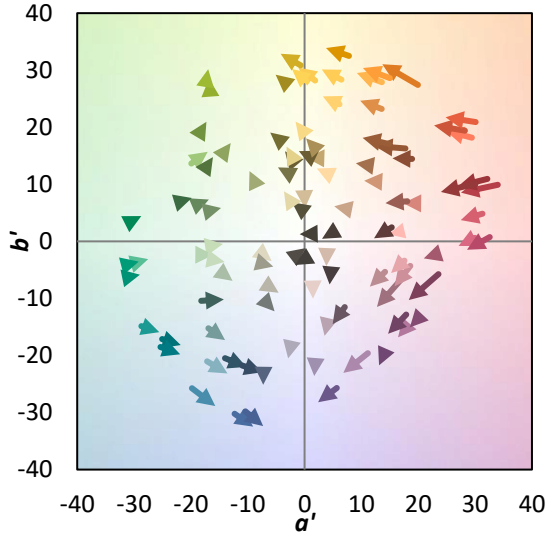


Color Vector Graphics







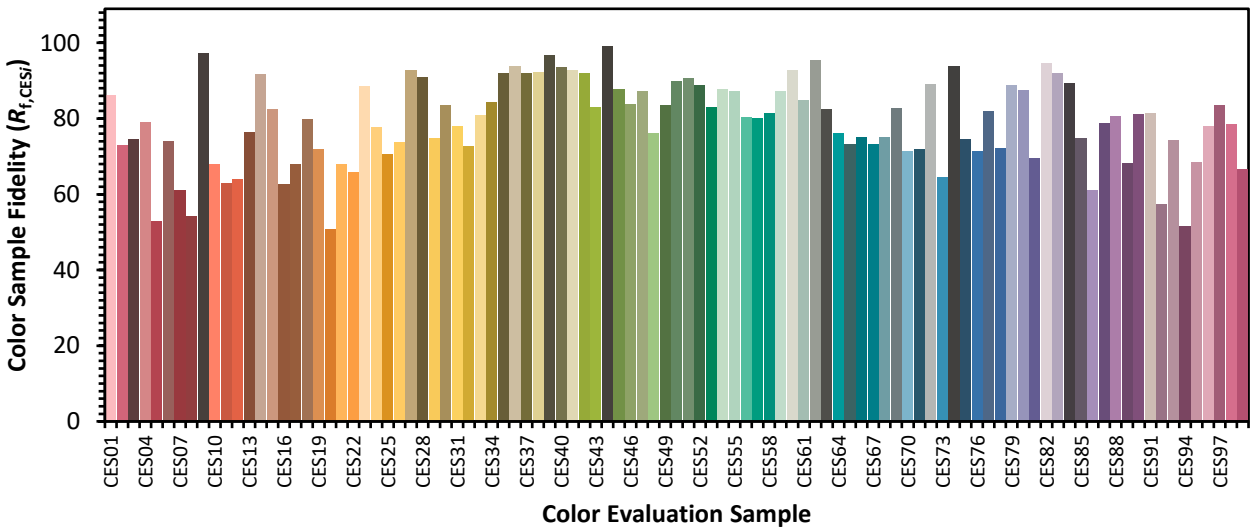


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

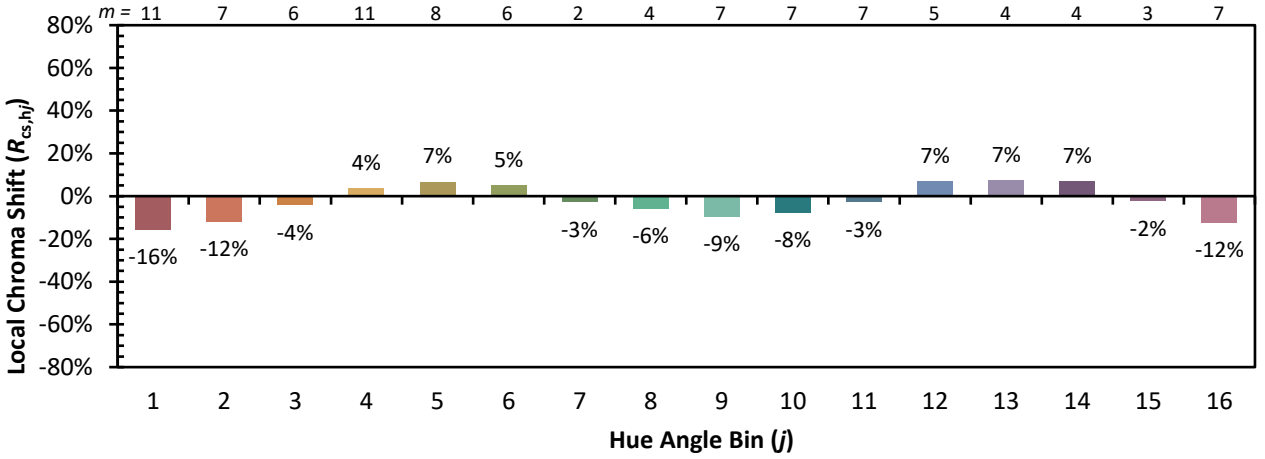
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82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

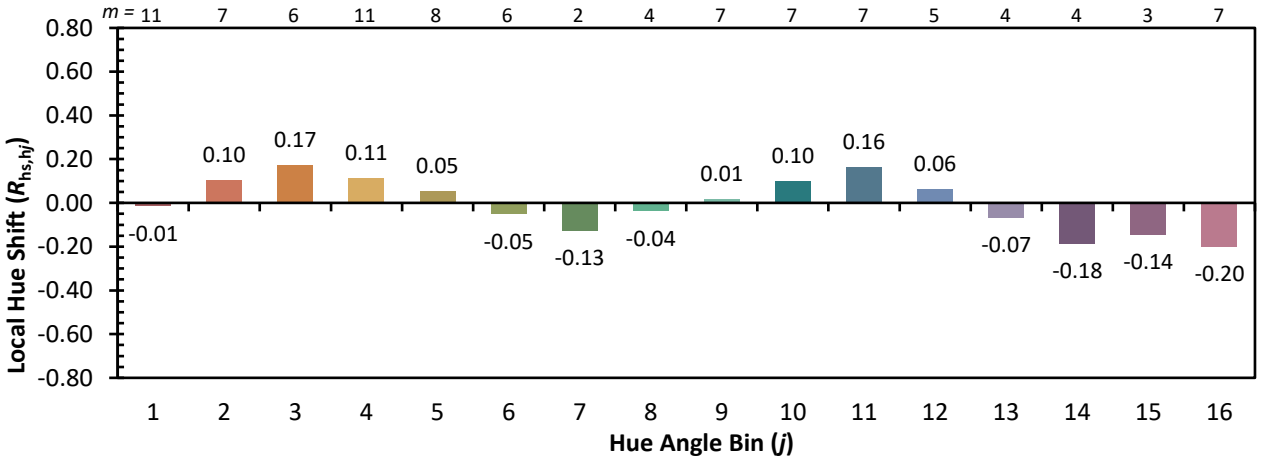


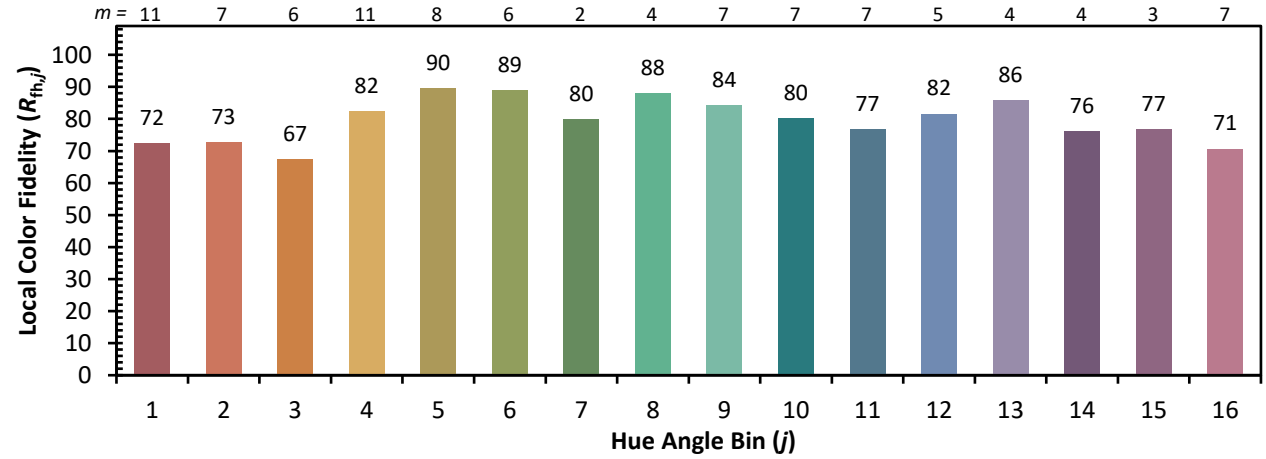
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



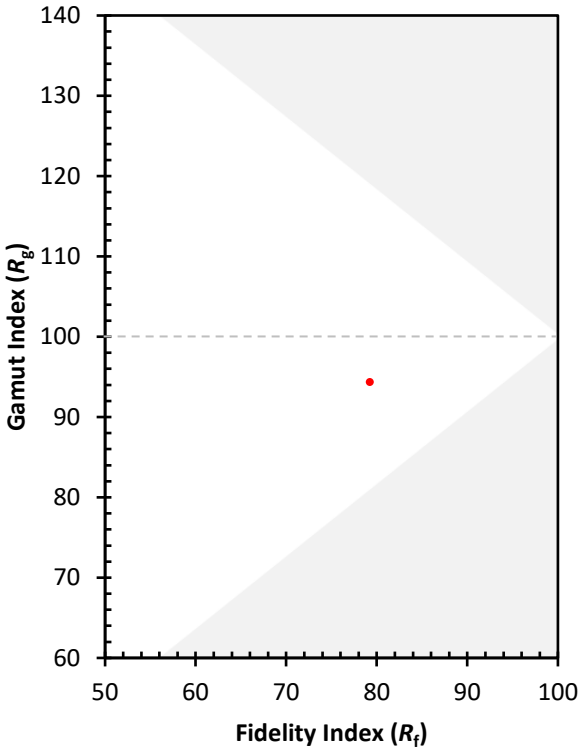


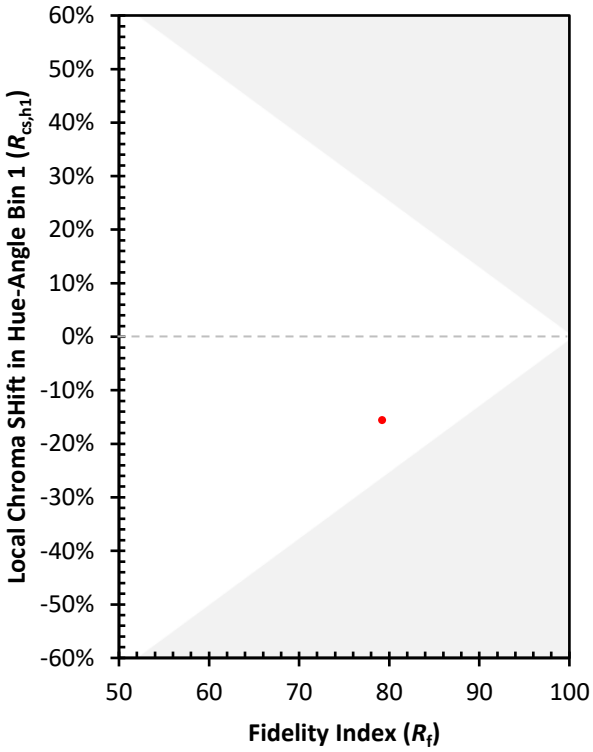


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)