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: P1046430

Luminaire Tested: **FFX-CLB-50-730-U-FR-T4-UPLR**

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:	P1046430
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-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7687.5 lumens
Efficiency:	N/A
Efficacy:	151.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - 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

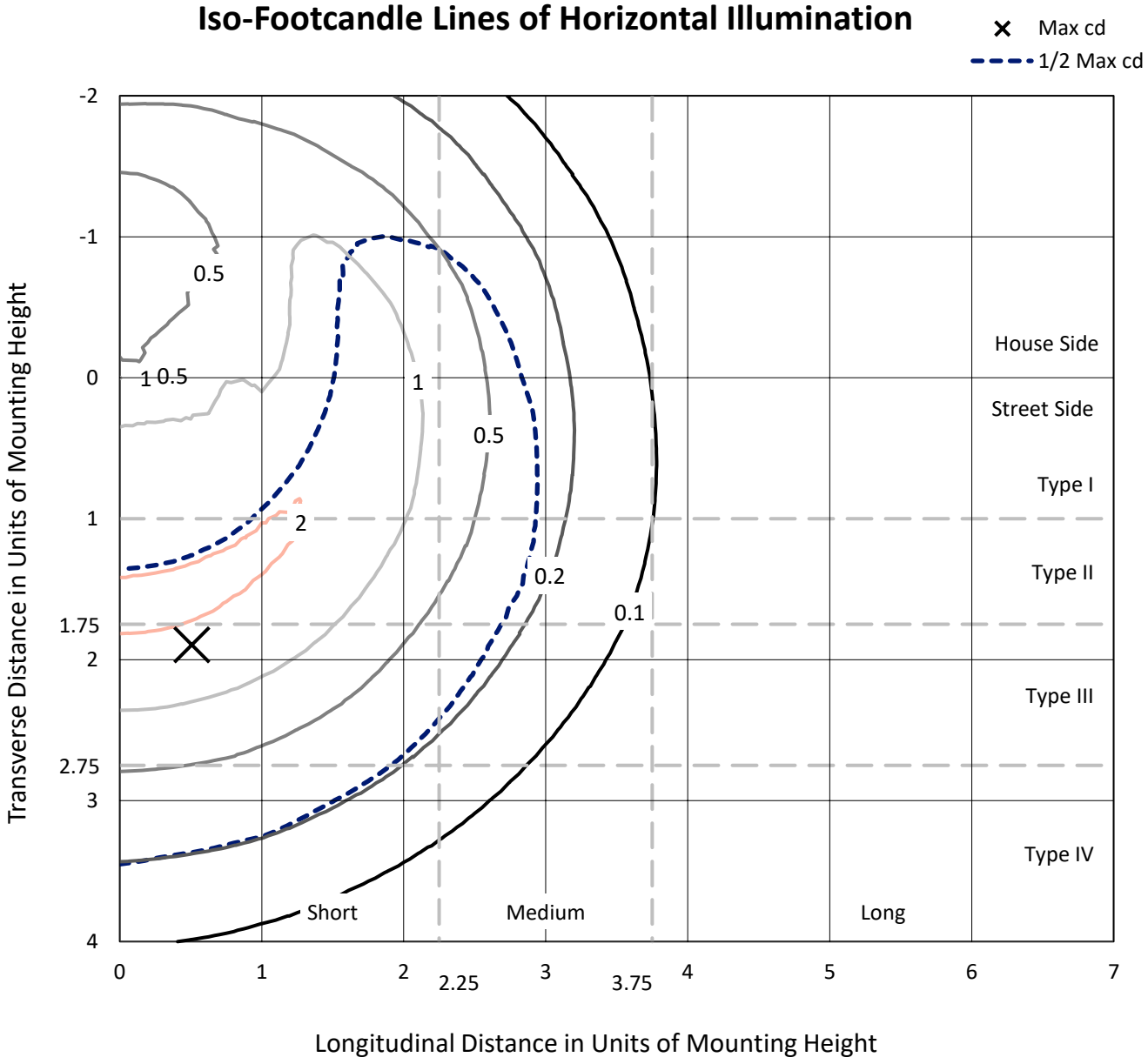


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

Iso-Footcandle Lines of Horizontal Illumination



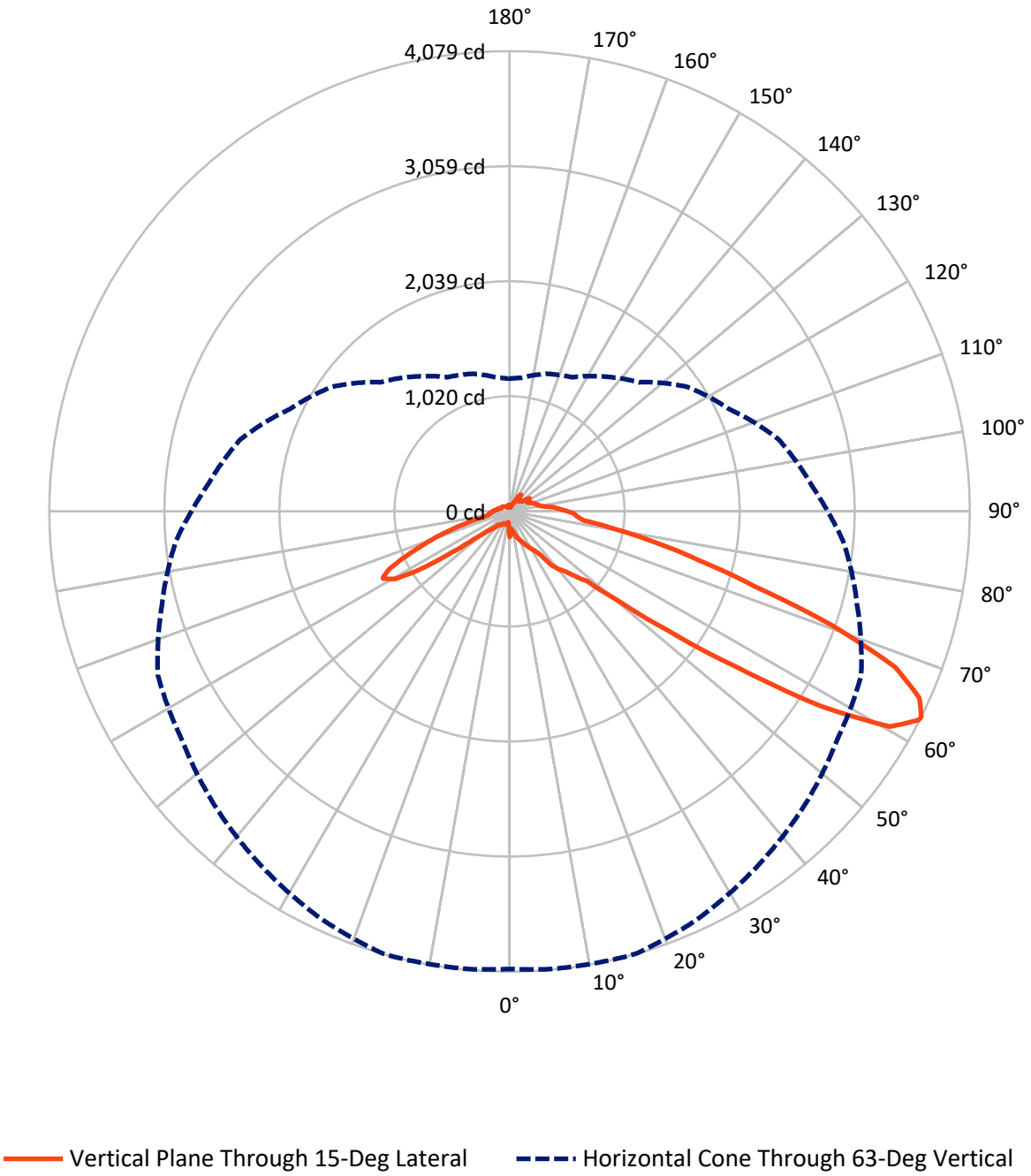
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

Luminous Intensity Polar Plot



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

Scaled Data Report

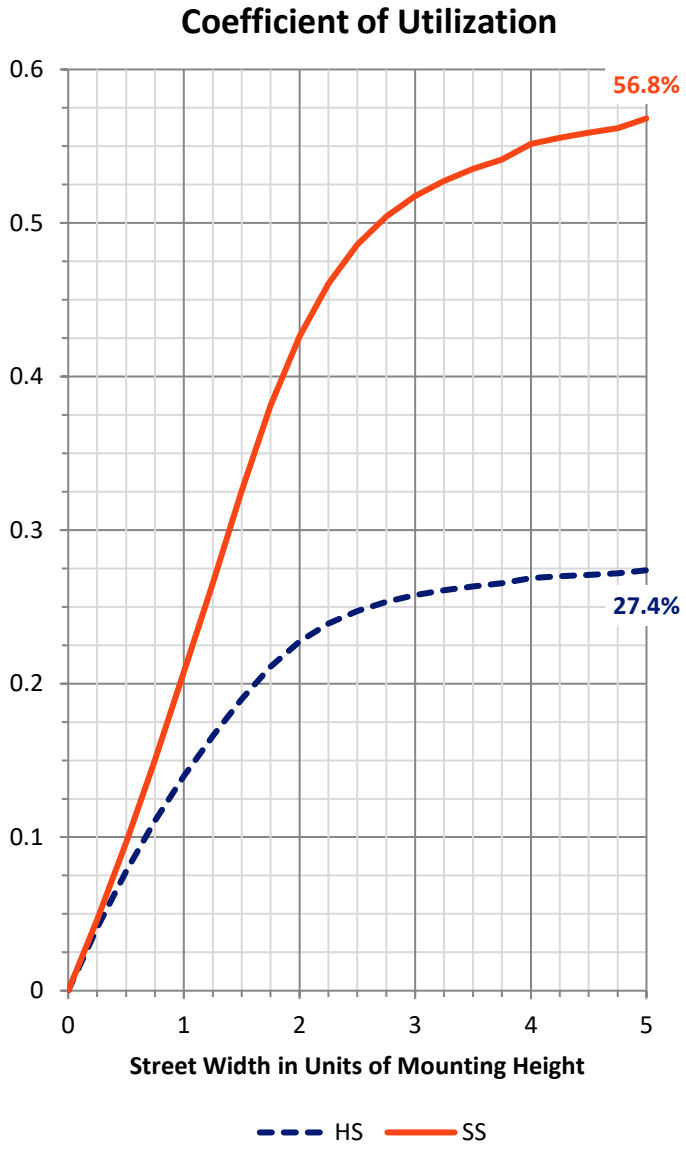
REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.2	354.2	2528.4
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	4552.4	606.8	5159.1
	% Fixture	59.2	7.9	67.1
Total	Lumens	6726.5	961.0	7687.5
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.2
10°-20°	50.3	0.7
20°-30°	109.1	1.4
30°-40°	224.2	2.9
40°-50°	462.3	6.0
50°-60°	1520.8	19.8
60°-70°	2518.0	32.8
70°-80°	1320.7	17.2
80°-90°	507.1	6.6
90°-100°	306.3	4.0
100°-110°	193.0	2.5
110°-120°	142.9	1.9
120°-130°	121.6	1.6
130°-140°	79.3	1.0
140°-150°	69.0	0.9
150°-160°	31.5	0.4
160°-170°	12.9	0.2
170°-180°	4.5	0.1
0°-90°	6726.5	87.5
0°-180°	7687.5	100.0



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

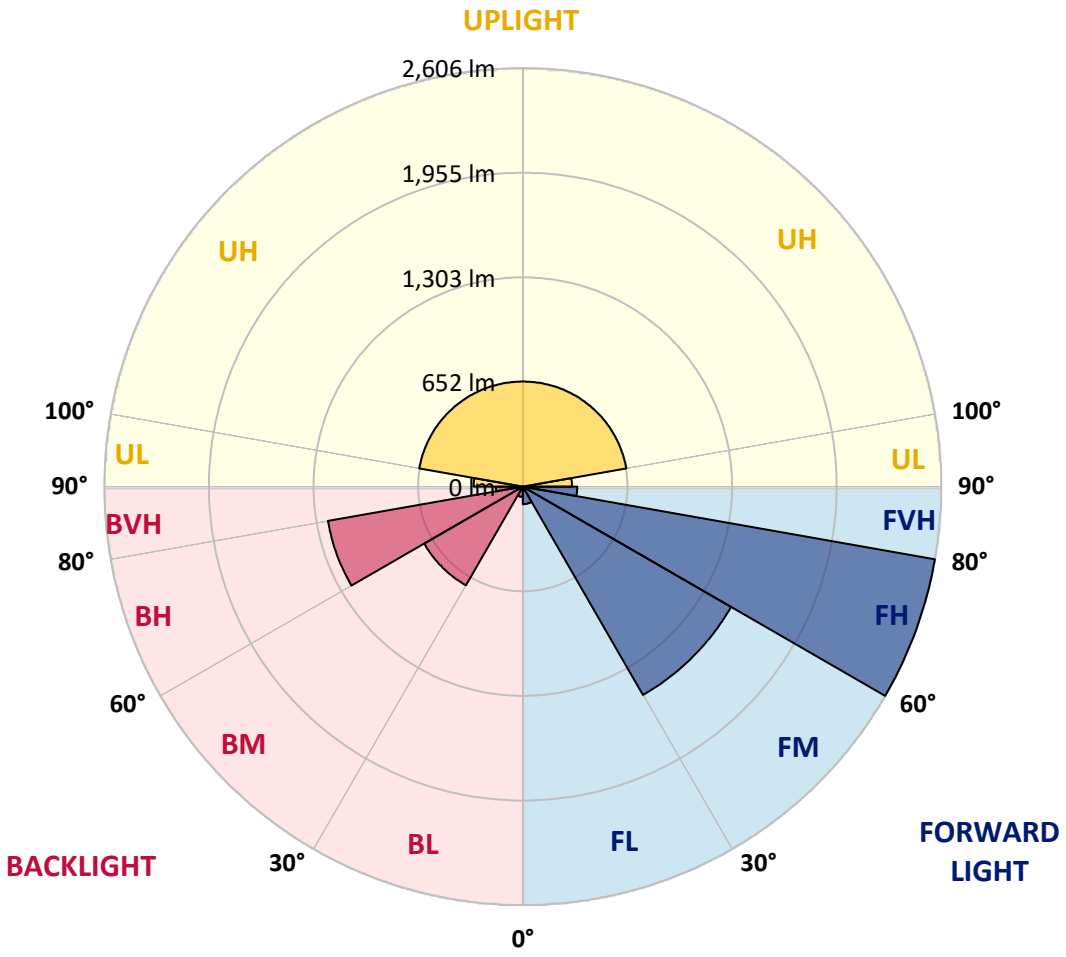
Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	109.4	1.4			
FM	(30°-60°)	1498.0	19.5			
FH	(60°-80°)	2606.2	33.9			G2/5000
FVH	(80°-90°)	338.8	4.4			G3/500
BL	(0°-30°)	64.0	0.8	B0/110		
BM	(30°-60°)	709.4	9.2	B1/1000		
BH	(60°-80°)	1232.5	16.0	B3/2500		G3/2500
BVH	(80°-90°)	168.3	2.2			G2/225
UL	(90°-100°)	306.3	4.0		U3/500	
UH	(100°-180°)	654.7	8.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	227.0	227.0	*227.0*	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
2.5°	139.8	139.8	*159.9*	163.5	182.6	188.7	178.1	170.0	189.7	230.1	236.6
5°	151.9	154.9	*154.4*	153.9	154.9	173.1	191.7	183.1	150.4	119.6	119.6
7.5°	172.0	173.1	*172.6*	172.0	165.5	154.9	150.4	164.0	172.6	146.8	123.1
10°	186.2	185.2	*184.7*	184.2	185.2	189.2	187.7	171.0	154.4	145.8	140.8
12.5°	212.9	213.4	*211.9*	210.9	209.9	208.4	206.9	210.4	201.3	176.6	159.9
15°	233.1	233.1	*237.1*	236.1	236.1	231.1	224.0	213.9	201.8	195.3	180.6
17.5°	254.3	254.8	*254.3*	254.3	252.3	245.7	238.1	229.1	216.4	205.3	192.7
20°	275.0	275.0	*274.5*	274.0	273.5	268.4	258.8	246.7	235.1	224.5	211.4
22.5°	296.7	298.2	*299.2*	298.2	296.7	291.6	281.0	269.4	258.3	243.2	229.1
25°	327.4	328.0	*326.9*	325.9	323.9	317.4	309.3	297.2	283.6	267.4	248.7
27.5°	356.7	357.7	*357.2*	357.2	353.2	347.6	339.6	323.4	308.3	289.6	270.4
30°	390.0	389.0	*386.5*	387.0	384.5	379.9	370.8	356.7	337.5	315.3	294.1
32.5°	422.8	422.8	*419.3*	417.8	417.8	411.7	401.6	387.0	368.8	345.1	324.4
35°	458.6	467.7	*476.8*	480.3	480.3	471.7	459.6	440.5	424.8	400.1	374.4
37.5°	630.7	625.1	*602.9*	605.4	597.9	594.3	586.3	570.1	548.4	510.6	471.2
40°	691.2	690.2	*673.6*	671.5	668.0	656.4	647.8	636.7	629.2	583.8	524.7
42.5°	701.8	707.4	*729.6*	735.1	763.9	746.2	711.9	649.3	633.7	599.4	574.7
45°	820.9	822.9	*822.9*	823.9	816.3	803.2	798.7	758.8	727.5	678.1	631.7
47.5°	939.5	944.0	*926.3*	940.5	960.1	933.4	921.3	888.5	845.6	807.3	731.1
50°	1214.9	1232.6	*1236.1*	1236.6	1245.2	1243.2	1225.0	1179.6	1136.7	1048.9	964.2
52.5°	1725.0	1742.2	*1749.7*	1731.6	1704.8	1692.7	1697.3	1678.6	1579.2	1484.9	1312.8
55°	2391.0	2420.8	*2420.8*	2439.9	2431.9	2374.4	2370.8	2248.7	2088.3	1983.3	1833.5
57.5°	3282.0	3237.1	*3262.3*	3289.6	3234.1	3173.5	3083.2	2955.6	2721.0	2539.8	2322.9
60°	3942.5	3924.3	*3874.4*	3843.6	3704.8	3584.7	3513.6	3420.3	3242.2	3004.0	2713.9
62.5°	4063.6	4076.7	*4073.1*	4073.1	3962.1	3818.3	3674.6	3537.8	3427.3	3182.1	2952.6
63°	*4056.0*	*4072.1*	*4078.7*	*4076.7*	*3976.8*	*3835.0*	*3692.2*	*3541.4*	*3438.9*	*3188.7*	*2966.7*
65°	3991.4	4005.0	*3993.4*	3989.4	3926.3	3830.5	3670.0	3520.7	3427.3	3159.4	2968.7
67.5°	3732.1	3729.0	*3685.7*	3705.3	3665.5	3612.0	3462.1	3314.8	3250.2	2957.6	2782.0
70°	3014.1	2992.9	*3040.3*	3068.6	3025.2	3004.0	2825.9	2729.0	2645.8	2423.3	2281.5
72.5°	2304.2	2260.3	*2268.4*	2294.1	2239.6	2225.0	2148.8	2069.1	2029.3	1890.5	1733.1
75°	1806.8	1783.0	*1739.1*	1746.2	1701.3	1686.7	1678.6	1655.4	1639.8	1524.2	1368.3
77.5°	1351.2	1350.1	*1313.3*	1307.8	1275.5	1299.7	1290.1	1324.9	1317.4	1225.5	1107.0
80°	945.5	940.0	*949.5*	946.0	938.4	952.6	937.4	956.6	956.6	896.6	846.6
82.5°	617.1	628.2	*658.4*	665.5	676.6	709.9	656.4	628.2	620.6	614.0	589.8
85°	612.5	615.5	*602.4*	603.9	598.9	586.3	595.9	600.4	592.8	556.5	503.0
87.5°	577.2	581.2	*570.6*	573.7	555.0	559.0	565.1	568.6	565.1	532.8	488.4
90°	486.4	490.9	*500.5*	500.5	502.0	503.0	493.4	499.0	495.5	464.7	432.4
92.5°	431.4	435.4	*435.9*	436.4	432.4	445.5	429.9	420.3	417.8	393.0	369.8
95°	394.5	390.0	*389.0*	390.0	388.0	387.5	377.4	370.3	367.3	347.6	324.9
97.5°	308.8	311.3	*310.3*	312.8	307.8	307.3	298.7	289.6	286.6	270.4	255.3
100°	270.9	270.4	*271.4*	271.9	268.9	265.4	259.3	252.8	249.2	237.1	222.5
102.5°	254.3	253.8	*255.8*	256.3	253.8	251.3	246.2	242.2	239.2	228.1	211.9
105°	243.7	242.2	*244.7*	244.7	239.2	237.6	234.1	233.6	231.6	218.5	202.8
107.5°	229.1	226.5	*229.6*	229.1	227.0	225.5	222.5	220.5	219.0	207.9	190.2

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

Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	215.4	211.9	*213.4*	214.4	215.9	214.9	212.4	208.4	204.3	195.3	180.6
112.5°	190.2	192.2	*191.7*	191.7	193.2	193.7	189.2	186.7	184.2	177.1	167.5
115°	180.6	180.6	*180.6*	180.6	176.6	175.1	170.5	167.5	167.0	158.4	152.4
117.5°	173.1	174.1	*176.6*	178.1	183.1	180.1	170.0	163.5	160.9	157.4	150.9
120°	203.8	200.3	*196.8*	196.3	196.8	194.8	192.7	188.2	182.1	172.6	154.4
122.5°	218.5	209.4	*210.9*	210.4	206.9	208.4	208.9	209.4	205.3	190.2	162.0
125°	183.1	180.6	*182.1*	183.7	184.2	183.7	182.6	187.2	181.6	176.6	155.4
127.5°	146.3	145.3	*142.3*	141.8	140.8	141.3	141.3	142.8	137.7	132.7	131.7
130°	139.3	137.2	*137.7*	138.2	137.7	134.7	132.7	130.2	129.7	124.6	117.6
132.5°	126.1	127.1	*135.7*	136.7	142.8	139.3	128.7	121.6	122.6	125.1	122.6
135°	118.1	117.6	*124.1*	124.6	133.7	131.2	122.6	114.5	114.5	120.6	118.1
137.5°	120.6	121.6	*122.1*	122.6	122.1	121.6	121.1	117.6	115.0	114.5	108.5
140°	129.7	129.2	*124.1*	124.6	124.1	124.1	127.1	129.7	121.1	113.5	103.4
142.5°	135.7	137.2	*135.2*	137.7	142.3	138.2	133.2	126.6	121.6	116.5	110.5
145°	184.2	180.6	*179.1*	178.1	175.1	166.5	161.5	154.9	148.8	140.8	130.7
147.5°	167.0	168.0	*165.0*	166.0	162.0	158.9	157.9	158.4	156.4	151.9	141.3
150°	132.7	133.7	*130.7*	129.2	127.6	127.6	127.6	128.7	126.1	123.1	118.1
152.5°	92.8	91.8	*90.8*	90.3	89.3	88.3	88.3	88.8	86.3	85.3	81.2
155°	85.3	84.8	*80.7*	79.7	80.7	81.7	82.2	80.7	78.7	76.7	71.1
157.5°	66.6	65.1	*64.6*	65.6	65.6	65.1	64.1	65.1	63.1	62.6	61.6
160°	54.5	54.0	*54.5*	54.5	55.0	55.0	54.5	54.5	53.5	54.0	54.0
162.5°	46.4	46.4	*46.4*	45.9	46.9	47.4	46.9	46.9	47.4	48.9	49.9
165°	39.9	39.9	*40.4*	40.4	40.9	40.9	41.4	41.9	42.9	46.4	49.4
167.5°	37.3	37.3	*37.8*	37.8	38.3	38.8	39.9	41.9	44.9	48.9	50.5
170°	36.8	36.8	*36.8*	36.8	37.3	37.8	39.9	42.9	46.4	48.9	47.4
172.5°	38.3	38.3	*38.8*	38.8	38.8	40.9	42.4	44.9	46.9	47.4	45.9
175°	39.9	39.4	*39.9*	39.9	40.4	41.9	43.9	44.9	45.9	46.4	46.9
177.5°	38.8	38.8	*38.8*	39.4	39.4	39.9	40.9	41.4	42.4	43.4	44.9
180°	37.8	37.8	*37.8*	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8

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

Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
2.5°	236.6	230.1	179.1	153.4	175.1	217.5	221.5	191.7	148.8	103.4	94.3
5°	126.1	133.2	148.8	148.3	138.2	129.2	118.1	111.0	122.6	117.6	120.6
7.5°	114.0	107.5	110.0	128.7	125.6	95.4	86.3	84.3	94.3	117.6	115.0
10°	138.7	136.7	129.2	114.0	109.0	113.0	116.5	114.0	104.9	91.3	89.3
12.5°	156.9	154.4	155.4	165.0	153.4	127.1	112.5	108.0	113.0	133.2	137.2
15°	174.6	170.0	163.5	149.8	138.7	131.7	123.1	114.0	117.1	111.5	109.5
17.5°	186.7	179.6	166.0	155.9	144.8	135.7	128.2	118.6	112.0	110.5	111.0
20°	202.8	195.3	180.6	169.0	155.4	143.3	130.2	120.1	113.5	111.0	111.0
22.5°	221.5	212.4	195.8	179.6	164.5	148.8	133.2	122.1	116.0	113.5	112.5
25°	241.2	232.1	211.4	194.2	175.1	157.9	141.8	127.6	121.1	118.1	115.5
27.5°	261.4	250.3	229.6	208.4	187.7	167.5	150.4	135.7	126.6	121.6	122.1
30°	283.6	274.5	251.3	227.0	201.3	177.6	160.9	144.3	133.2	127.6	128.2
32.5°	313.3	298.7	270.9	243.2	218.0	191.7	170.5	151.4	139.3	135.7	136.2
35°	362.8	344.1	310.3	272.5	238.6	207.9	181.1	158.4	144.3	138.7	138.2
37.5°	452.1	426.8	388.0	343.6	294.7	244.7	201.3	166.5	148.8	139.8	138.2
40°	495.5	461.1	412.2	373.9	340.6	297.7	248.2	195.8	156.4	144.8	143.3
42.5°	553.5	524.7	461.1	386.5	342.1	306.3	271.4	237.6	188.7	158.4	152.9
45°	609.5	583.8	533.8	460.6	394.5	338.5	286.6	249.7	219.5	188.7	186.2
47.5°	703.8	676.6	593.3	528.3	458.6	395.1	340.6	280.0	240.7	219.0	219.0
50°	940.5	890.5	808.3	708.4	596.4	493.4	416.2	342.1	294.7	261.9	260.3
52.5°	1270.9	1200.3	1079.2	968.7	836.5	717.5	597.4	468.2	399.1	351.7	351.2
55°	1748.2	1676.1	1514.1	1301.7	1139.8	997.5	872.9	731.1	622.1	545.4	539.4
57.5°	2257.3	2196.8	2031.8	1767.9	1512.6	1260.8	1110.0	997.0	944.5	891.0	879.9
60°	2587.3	2483.3	2333.0	2081.2	1834.0	1513.1	1325.9	1196.3	1178.6	1167.0	1152.4
62.5°	2795.1	2672.5	2449.0	2147.3	1920.3	1616.5	1449.0	1310.8	1269.4	1207.4	1189.7
63°	*2818.9*	*2685.7*	*2467.7*	*2145.8*	*1922.8*	*1618.1*	*1458.1*	*1310.8*	*1262.4*	*1187.7*	*1176.1*
65°	2807.8	2684.1	2466.7	2114.5	1864.3	1588.3	1431.9	1250.8	1173.6	1074.7	1055.0
67.5°	2638.2	2506.5	2301.7	1955.6	1729.6	1448.0	1276.0	1083.7	966.7	869.8	847.1
70°	2147.8	2066.1	1886.0	1586.8	1415.2	1195.8	1044.9	894.0	767.4	665.5	639.8
72.5°	1636.7	1551.0	1415.7	1221.5	1094.8	944.0	801.2	685.2	580.7	513.1	515.1
75°	1298.7	1216.9	1105.4	977.8	874.4	740.2	598.9	483.9	409.7	369.3	365.8
77.5°	1045.9	989.4	892.0	774.5	685.2	544.9	419.3	318.9	263.9	240.7	234.1
80°	806.3	766.9	694.2	590.8	498.0	382.9	285.6	225.5	196.3	176.6	173.1
82.5°	573.7	549.9	489.4	417.3	354.2	294.1	250.3	210.9	180.6	164.0	158.9
85°	478.8	456.6	418.3	373.4	333.0	289.1	242.7	200.8	172.6	159.4	152.9
87.5°	464.7	444.0	407.2	359.2	315.3	267.9	221.0	181.6	161.5	148.8	144.8
90°	416.2	400.6	368.3	324.4	280.5	232.1	191.2	163.5	147.8	137.7	133.2
92.5°	358.7	345.1	318.4	281.5	244.7	209.9	178.6	155.4	139.8	129.7	126.1
95°	311.8	303.2	281.0	249.7	223.0	194.2	167.5	145.3	129.2	120.1	116.5
97.5°	248.7	238.6	222.5	200.8	180.6	160.4	140.8	125.6	114.0	108.0	104.9
100°	216.4	209.9	195.3	178.1	160.9	143.3	128.2	116.5	109.0	103.9	101.4
102.5°	203.8	199.3	185.7	168.5	152.4	135.2	120.1	109.5	103.9	99.4	97.4
105°	192.2	188.7	178.1	162.5	146.8	128.2	111.0	101.9	96.9	93.8	92.3
107.5°	180.1	176.1	166.0	150.9	137.2	121.1	106.0	94.9	88.3	84.8	84.3

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

Scaled Data Report

REPORT NUMBER: P1046430
CATALOG NUMBER: FFX-CLB-50-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	170.0	167.0	155.9	143.8	130.7	115.5	102.4	90.8	83.2	79.2	78.7
112.5°	159.4	155.9	144.8	133.2	122.1	109.0	97.4	87.3	80.2	76.2	75.7
115°	145.3	142.3	134.2	123.1	114.0	101.4	91.8	82.7	77.2	73.2	72.7
117.5°	146.8	138.2	127.1	117.1	109.0	99.9	91.3	84.3	75.7	71.1	71.1
120°	148.8	140.8	129.7	121.1	116.5	109.5	96.4	86.3	74.7	70.1	69.6
122.5°	146.8	147.8	141.8	133.2	124.1	112.0	95.9	84.8	73.2	69.6	70.1
125°	142.3	146.8	138.2	126.6	114.5	102.9	89.3	79.2	72.1	69.6	69.1
127.5°	128.7	127.6	116.5	108.0	99.4	89.8	81.2	75.2	70.1	67.1	65.6
130°	113.5	113.0	108.5	101.4	92.8	84.3	76.7	72.7	67.6	63.6	62.6
132.5°	119.6	118.1	108.5	96.9	87.3	80.2	75.2	70.6	63.6	59.0	58.5
135°	113.0	112.0	102.4	90.8	82.2	78.7	75.2	68.6	60.0	56.5	56.0
137.5°	103.4	99.4	91.3	84.3	80.2	79.2	74.7	67.1	59.0	55.0	54.5
140°	98.4	95.4	89.3	84.8	80.2	74.7	68.1	61.0	55.5	52.5	52.0
142.5°	104.4	103.4	94.3	86.3	79.2	72.7	65.6	61.0	55.0	51.0	50.5
145°	123.6	118.6	107.5	96.4	90.3	81.7	72.7	63.1	52.0	45.9	44.4
147.5°	135.2	130.7	119.6	107.5	94.3	80.7	66.6	54.5	45.9	41.4	40.4
150°	112.0	110.0	102.9	91.8	80.7	68.1	56.5	47.9	42.4	39.4	39.4
152.5°	78.7	78.2	75.2	68.6	61.6	54.5	48.4	43.4	40.4	38.3	38.3
155°	69.6	68.6	66.6	60.5	55.5	49.4	44.9	41.9	39.9	38.3	38.3
157.5°	60.0	59.0	58.5	54.0	49.9	45.9	42.4	39.9	38.3	37.3	36.8
160°	53.5	52.0	50.5	47.9	45.4	43.4	41.9	39.9	38.3	37.3	37.3
162.5°	49.9	48.9	46.4	44.4	43.4	43.4	43.9	42.9	39.9	38.3	37.8
165°	49.9	48.4	44.9	42.9	42.9	45.4	47.9	45.9	43.4	40.4	39.9
167.5°	50.5	49.4	45.9	44.4	45.9	48.9	51.5	51.0	47.4	44.9	44.9
170°	46.9	46.4	46.9	48.4	49.9	50.5	51.5	51.0	52.0	55.5	55.5
172.5°	45.4	45.9	48.4	51.0	54.0	54.0	51.5	51.0	55.5	60.5	61.6
175°	47.4	48.4	51.0	54.0	56.5	56.5	54.0	54.5	59.0	63.6	64.6
177.5°	45.4	45.9	46.9	46.4	47.4	44.9	45.9	44.9	46.4	46.4	46.4
180°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8

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

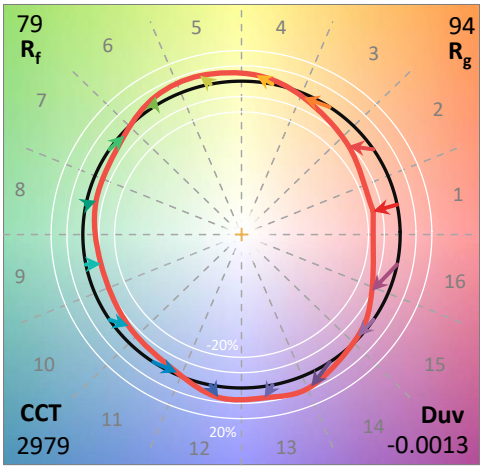
Test Information

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

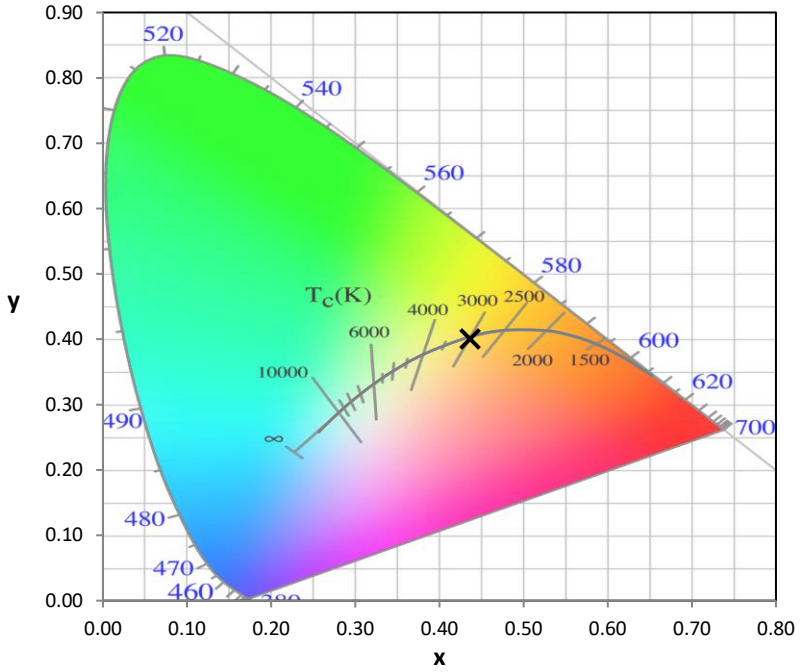
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

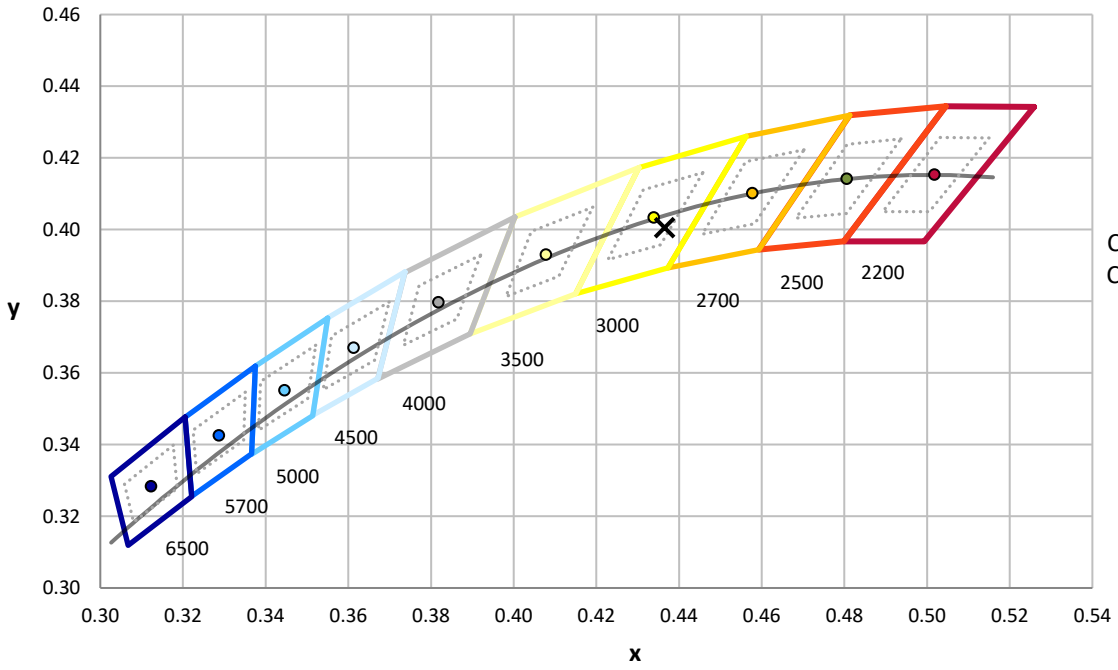
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

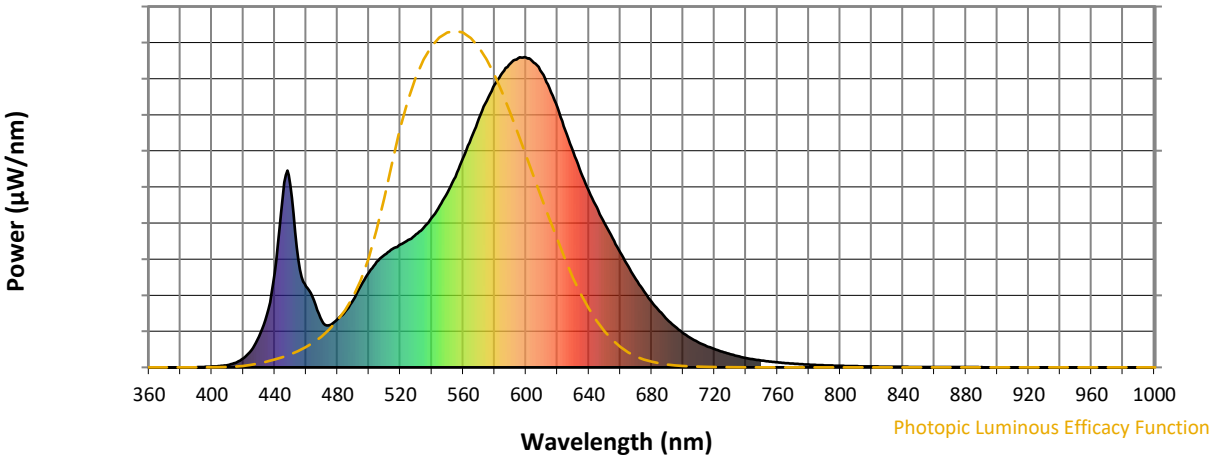


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

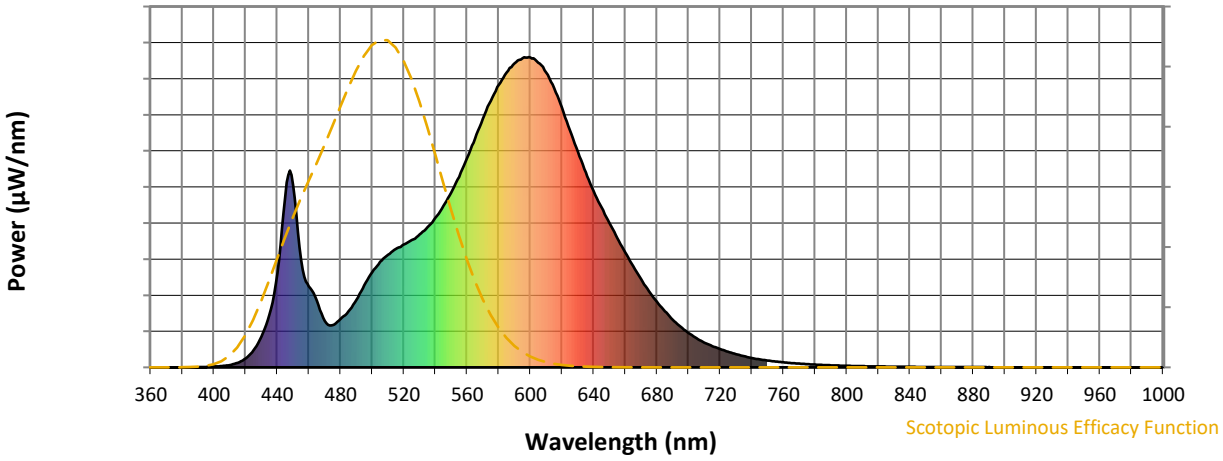


Photopic Lumens: NR

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

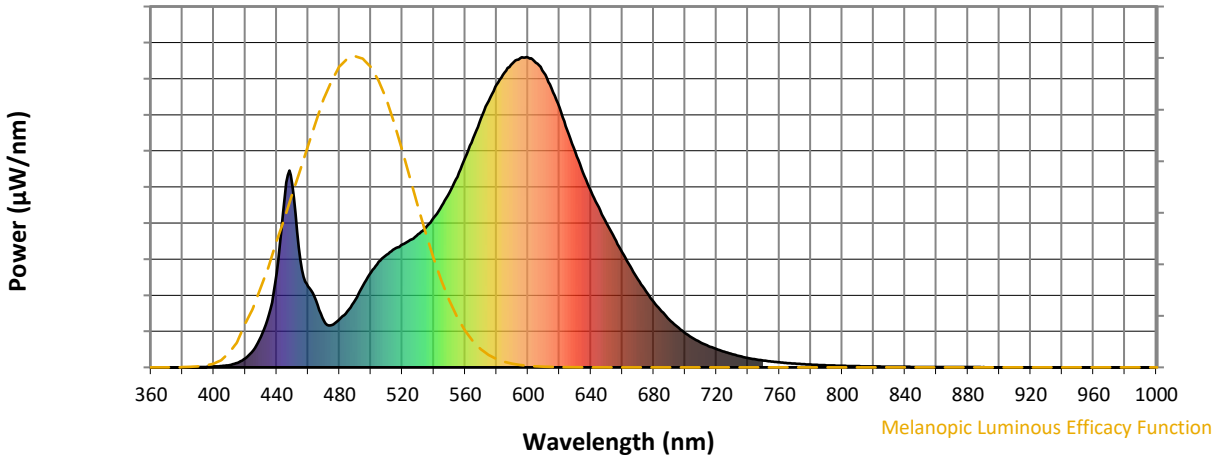


Scotopic Lumens: NR **S/P: 1.29**

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			

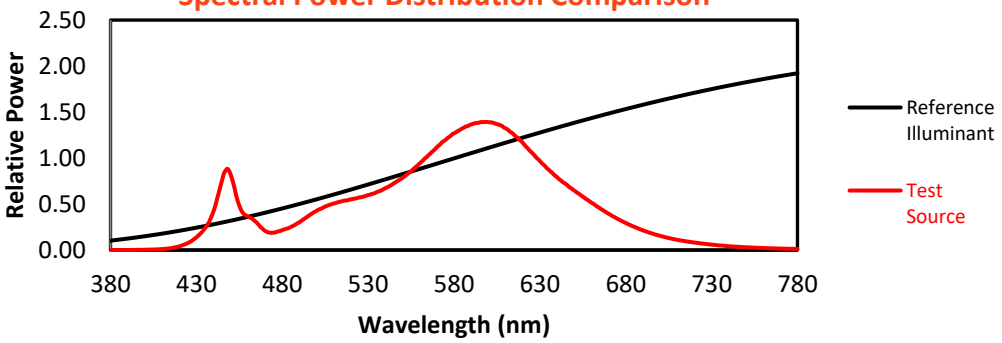
REPORT NUMBER: SP1-2501-332-9

TM-30-18

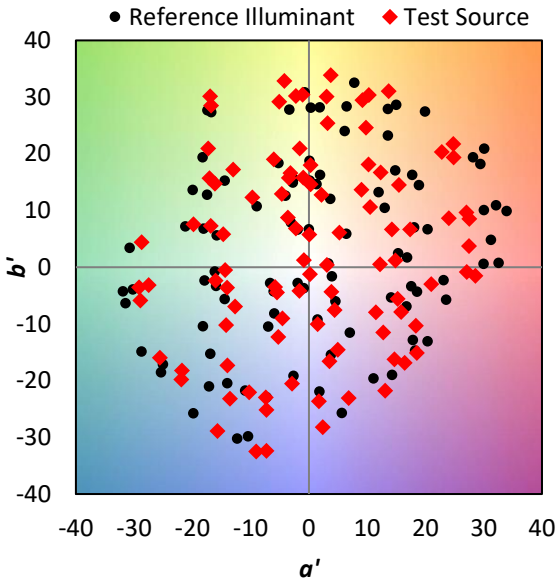
Summary

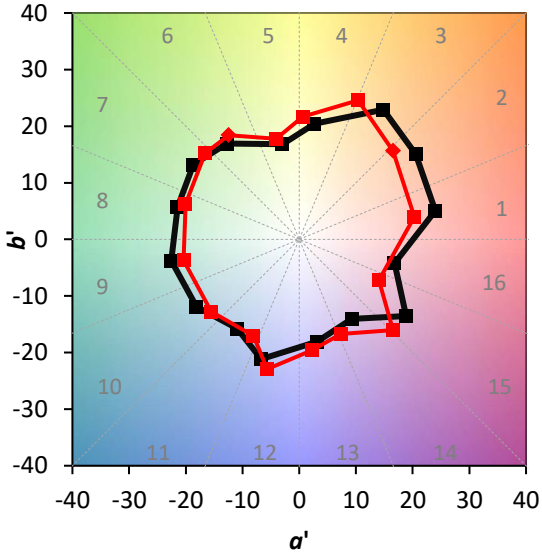
R_f = 79.2
R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

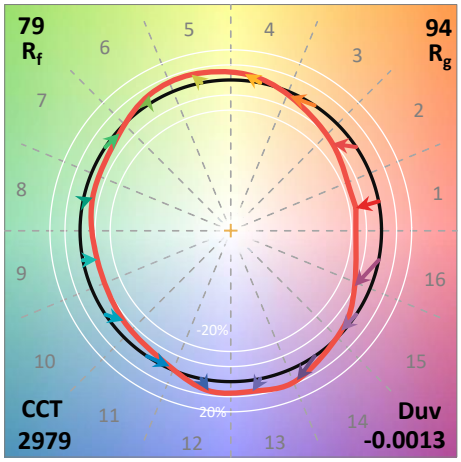
Spectral Power Distribution Comparison

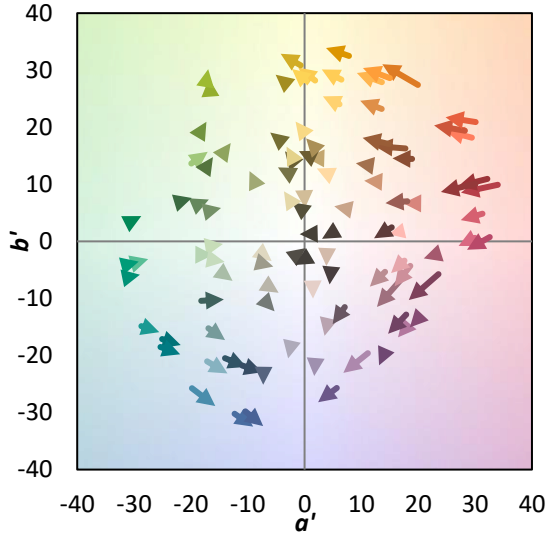


Color Vector Graphics







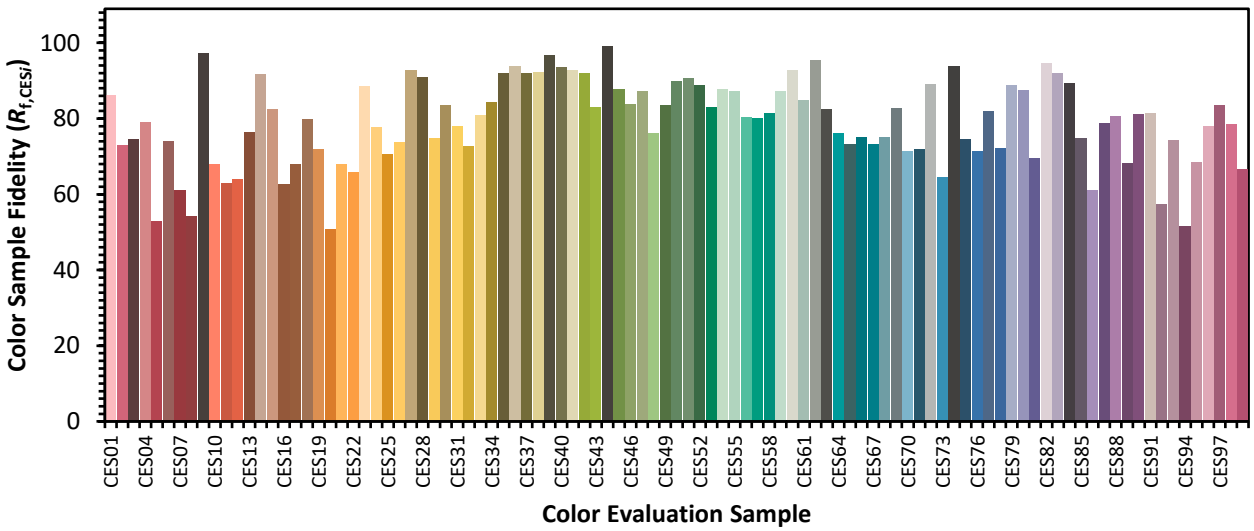


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

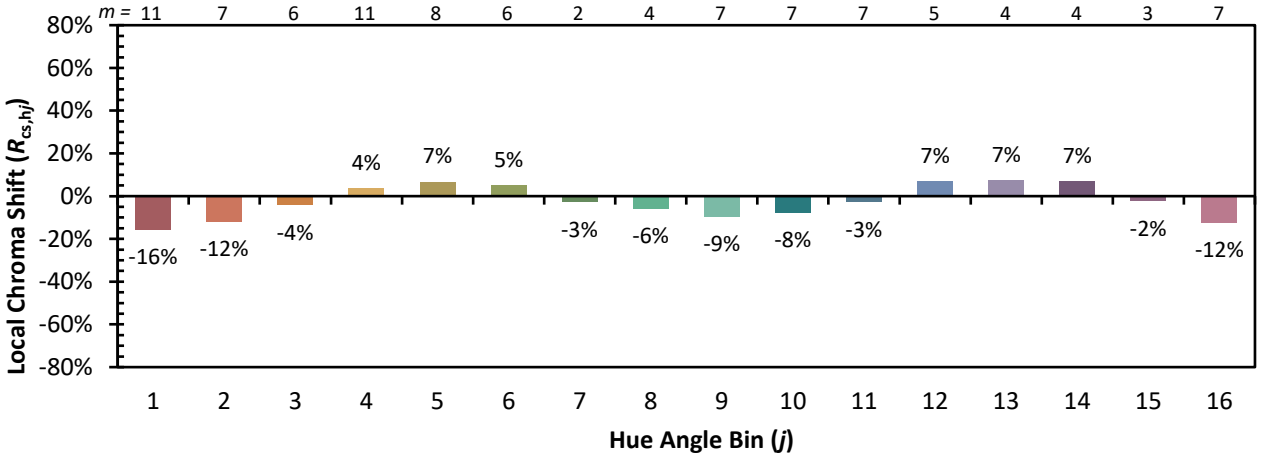
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82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

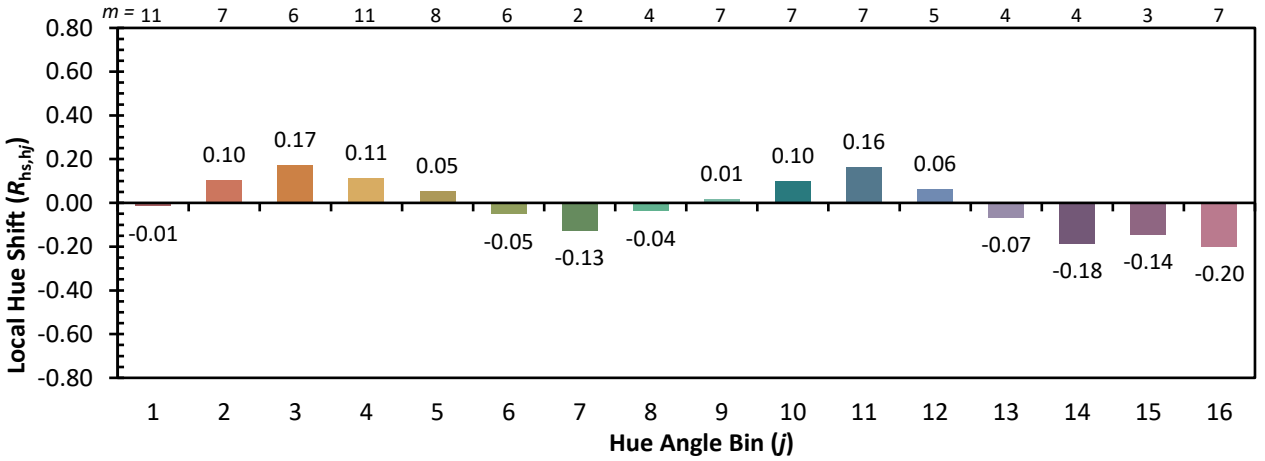


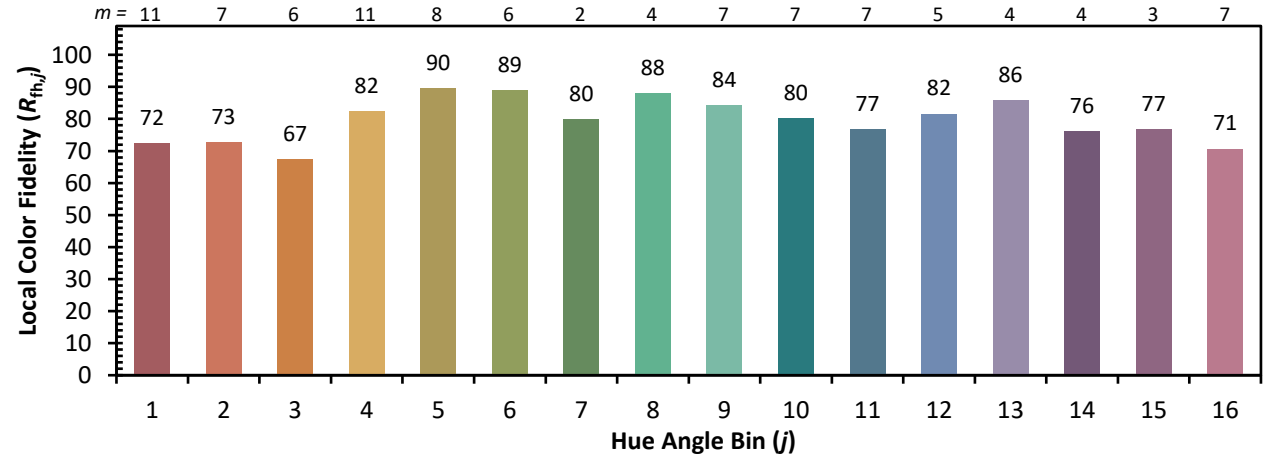
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



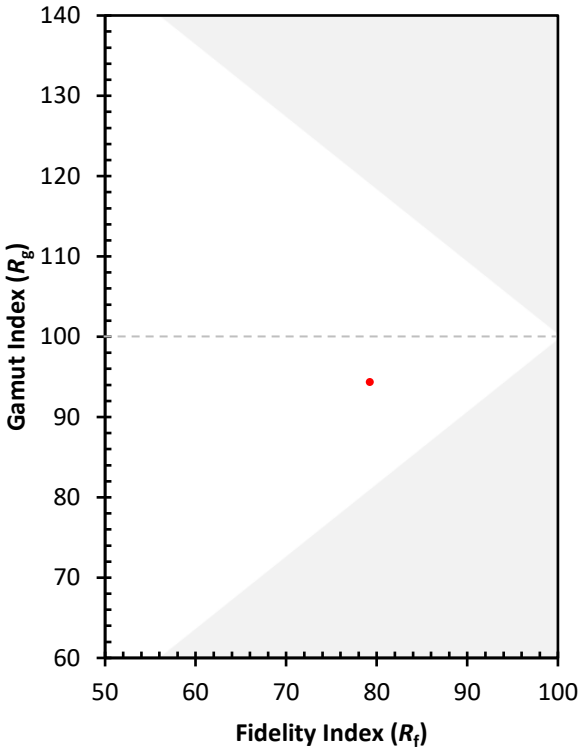


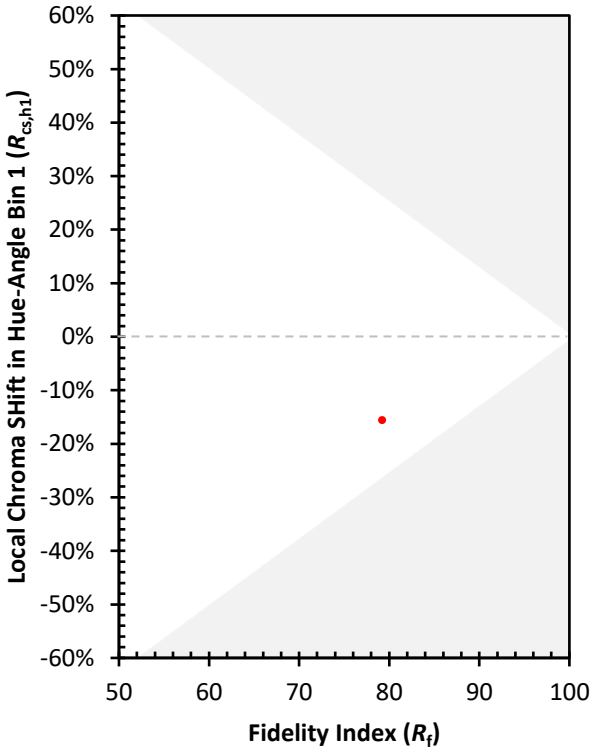


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)