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: P1046431

Luminaire Tested: **FFX-CLB-40-730-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:	P1046431
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-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:	6063.2 lumens
Efficiency:	N/A
Efficacy:	153.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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

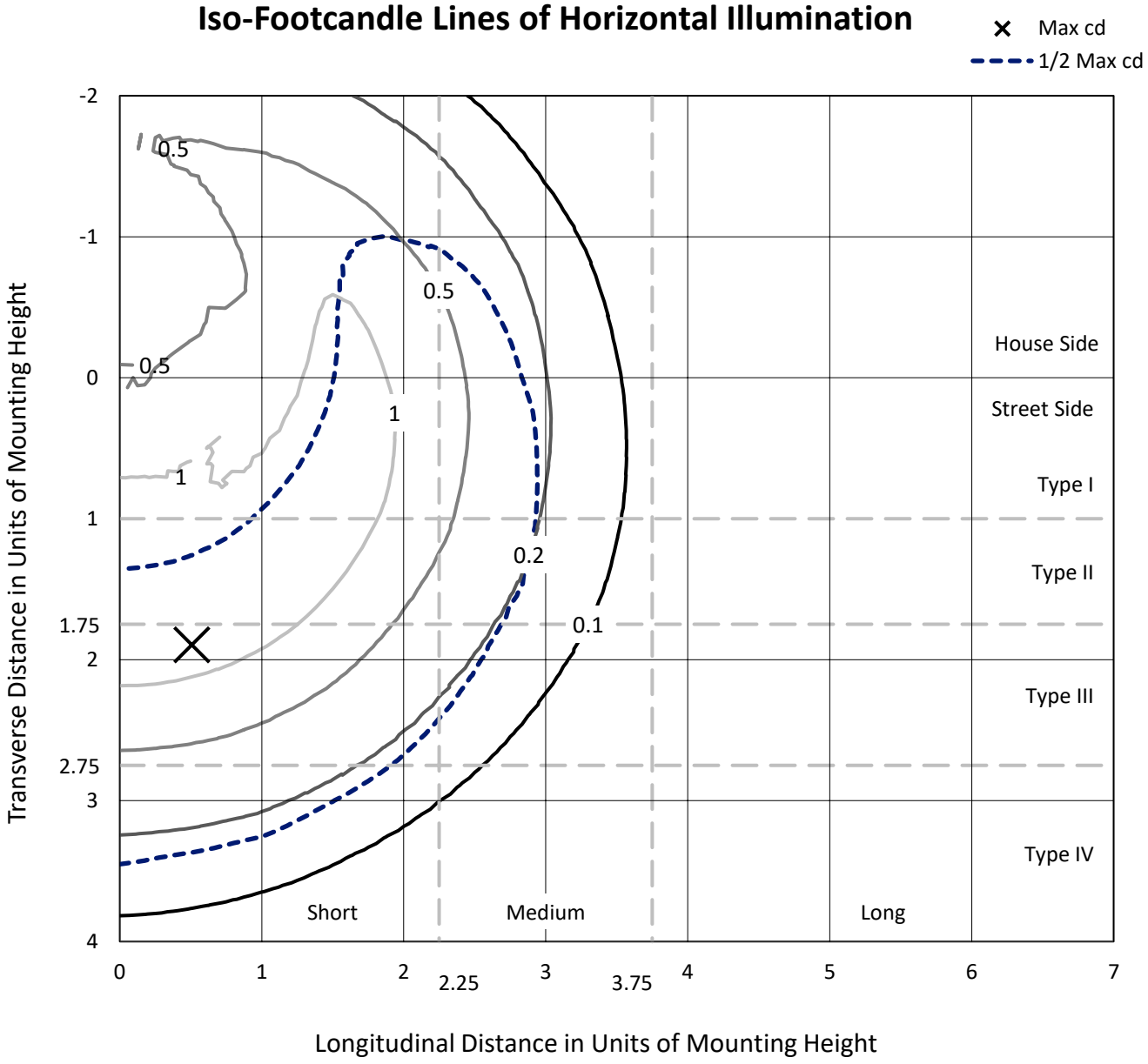


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

Iso-Footcandle Lines of Horizontal Illumination



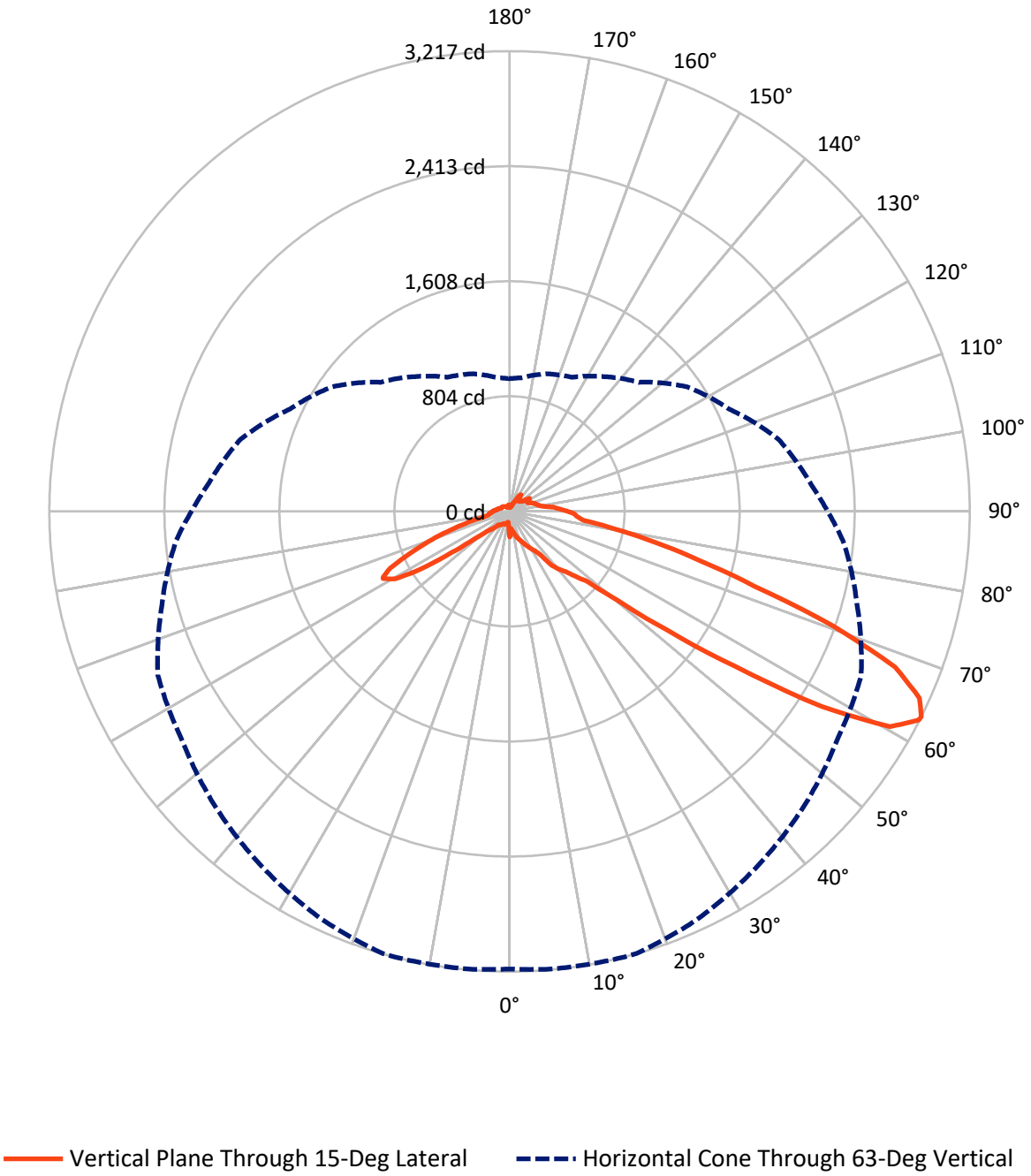
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

Luminous Intensity Polar Plot



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

Scaled Data Report

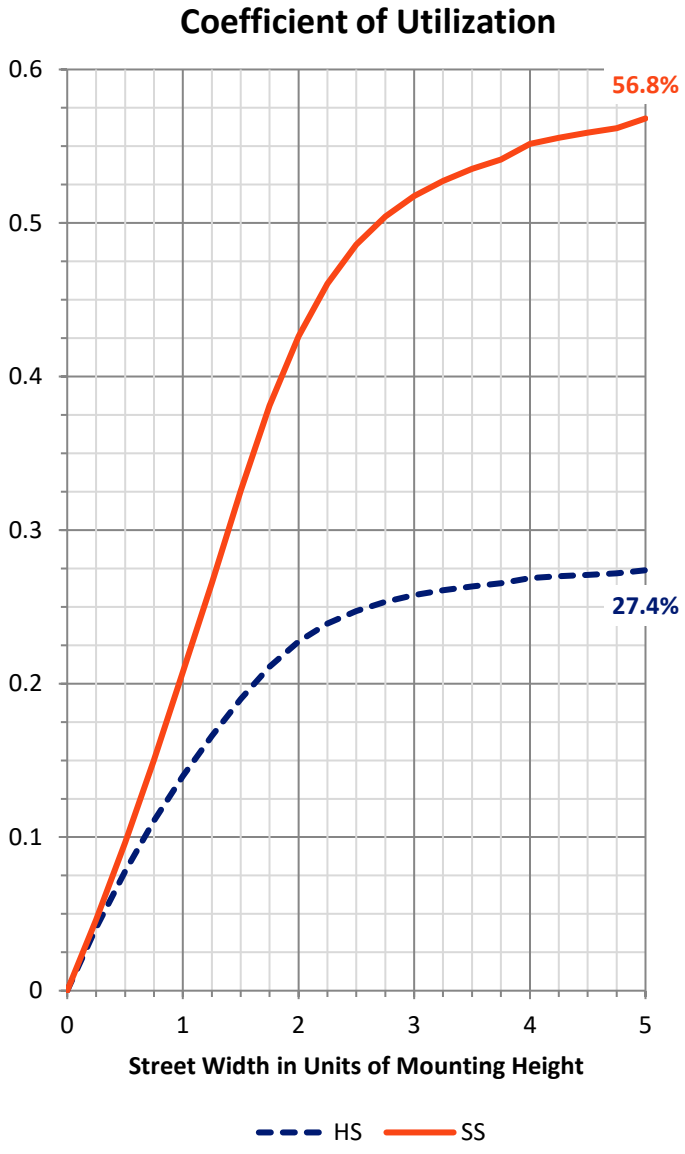
REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1714.8	279.4	1994.1
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	3590.5	478.6	4069.0
	% Fixture	59.2	7.9	67.1
Total	Lumens	5305.2	758.0	6063.2
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	39.7	0.7
20°-30°	86.0	1.4
30°-40°	176.8	2.9
40°-50°	364.6	6.0
50°-60°	1199.5	19.8
60°-70°	1986.0	32.8
70°-80°	1041.6	17.2
80°-90°	400.0	6.6
90°-100°	241.6	4.0
100°-110°	152.2	2.5
110°-120°	112.7	1.9
120°-130°	95.9	1.6
130°-140°	62.6	1.0
140°-150°	54.4	0.9
150°-160°	24.9	0.4
160°-170°	10.2	0.2
170°-180°	3.5	0.1
0°-90°	5305.2	87.5
0°-180°	6063.2	100.0



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

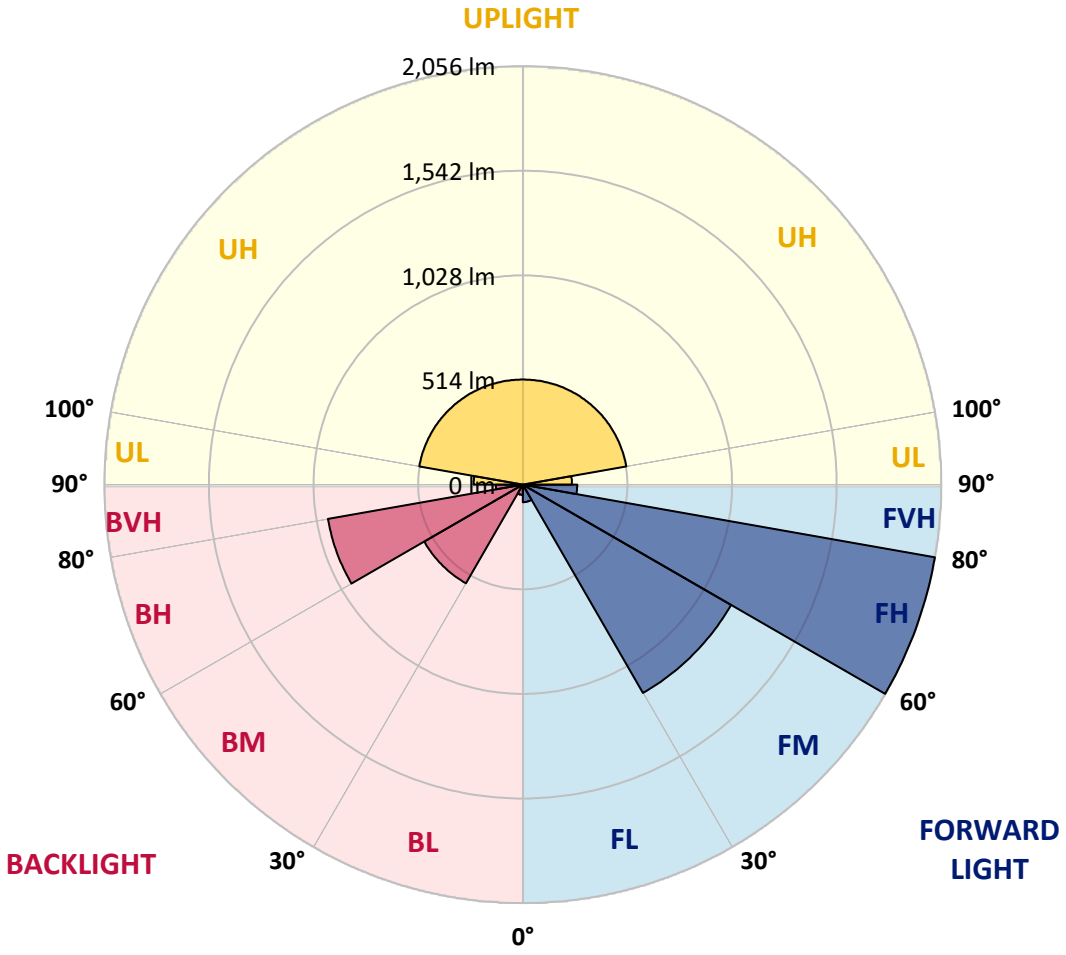
Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-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°)	86.3	1.4			
FM	(30°-60°)	1181.4	19.5			
FH	(60°-80°)	2055.5	33.9			G2/5000
FVH	(80°-90°)	267.2	4.4			G3/500
BL	(0°-30°)	50.5	0.8	B0/110		
BM	(30°-60°)	559.5	9.2	B1/1000		
BH	(60°-80°)	972.1	16.0	B2/1000		G2/1000
BVH	(80°-90°)	132.7	2.2			G2/225
UL	(90°-100°)	241.6	4.0		U3/500	
UH	(100°-180°)	516.3	8.5		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	179.1	179.1	*179.1*	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1
2.5°	110.2	110.2	*126.1*	128.9	144.1	148.8	140.5	134.1	149.6	181.5	186.6
5°	119.8	122.2	*121.8*	121.4	122.2	136.5	151.2	144.4	118.6	94.3	94.3
7.5°	135.7	136.5	*136.1*	135.7	130.5	122.2	118.6	129.3	136.1	115.8	97.1
10°	146.8	146.0	*145.6*	145.2	146.0	149.2	148.0	134.9	121.8	115.0	111.0
12.5°	167.9	168.3	*167.1*	166.3	165.5	164.3	163.2	165.9	158.8	139.3	126.1
15°	183.8	183.8	*187.0*	186.2	186.2	182.3	176.7	168.7	159.2	154.0	142.5
17.5°	200.6	201.0	*200.6*	200.6	199.0	193.8	187.8	180.7	170.7	162.0	152.0
20°	216.9	216.9	*216.5*	216.1	215.7	211.7	204.1	194.6	185.4	177.1	166.7
22.5°	234.0	235.2	*236.0*	235.2	234.0	230.0	221.6	212.5	203.7	191.8	180.7
25°	258.3	258.7	*257.9*	257.1	255.5	250.3	243.9	234.4	223.6	210.9	196.2
27.5°	281.3	282.1	*281.7*	281.7	278.6	274.2	267.8	255.1	243.1	228.4	213.3
30°	307.6	306.8	*304.8*	305.2	303.2	299.6	292.5	281.3	266.2	248.7	232.0
32.5°	333.5	333.5	*330.7*	329.5	329.5	324.7	316.8	305.2	290.9	272.2	255.9
35°	361.7	368.9	*376.0*	378.8	378.8	372.1	362.5	347.4	335.1	315.6	295.3
37.5°	497.4	493.0	*475.5*	477.5	471.5	468.8	462.4	449.7	432.6	402.7	371.7
40°	545.2	544.4	*531.2*	529.6	526.9	517.7	510.9	502.2	496.2	460.4	413.8
42.5°	553.5	557.9	*575.4*	579.8	602.5	588.5	561.5	512.1	499.8	472.7	453.2
45°	647.4	649.0	*649.0*	649.8	643.9	633.5	629.9	598.5	573.8	534.8	498.2
47.5°	740.9	744.5	*730.6*	741.7	757.3	736.2	726.6	700.8	666.9	636.7	576.6
50°	958.2	972.1	*974.9*	975.3	982.1	980.5	966.2	930.4	896.5	827.3	760.4
52.5°	1360.5	1374.1	*1380.0*	1365.7	1344.6	1335.1	1338.6	1323.9	1245.5	1171.1	1035.4
55°	1885.8	1909.3	*1909.3*	1924.4	1918.0	1872.7	1869.9	1773.6	1647.0	1564.3	1446.1
57.5°	2588.5	2553.1	*2573.0*	2594.5	2550.7	2503.0	2431.8	2331.1	2146.0	2003.2	1832.1
60°	3109.4	3095.1	*3055.7*	3031.4	2922.0	2827.3	2771.2	2697.6	2557.1	2369.3	2140.5
62.5°	3204.9	3215.3	*3212.5*	3212.5	3124.9	3011.5	2898.1	2790.3	2703.1	2509.7	2328.7
63°	*3199.0*	*3211.7*	*3216.9*	*3215.3*	*3136.5*	*3024.7*	*2912.1*	*2793.1*	*2712.3*	*2514.9*	*2339.8*
65°	3148.0	3158.8	*3149.6*	3146.4	3096.7	3021.1	2894.5	2776.8	2703.1	2491.8	2341.4
67.5°	2943.5	2941.1	*2906.9*	2922.4	2891.0	2848.8	2730.6	2614.4	2563.5	2332.7	2194.2
70°	2377.2	2360.5	*2397.9*	2420.2	2386.0	2369.3	2228.8	2152.4	2086.7	1911.3	1799.4
72.5°	1817.3	1782.7	*1789.1*	1809.4	1766.4	1754.9	1694.8	1631.9	1600.5	1491.0	1366.9
75°	1425.0	1406.3	*1371.7*	1377.2	1341.8	1330.3	1323.9	1305.6	1293.3	1202.1	1079.2
77.5°	1065.7	1064.9	*1035.8*	1031.4	1006.0	1025.1	1017.5	1045.0	1039.0	966.6	873.1
80°	745.7	741.3	*748.9*	746.1	740.2	751.3	739.4	754.5	754.5	707.1	667.7
82.5°	486.7	495.4	*519.3*	524.9	533.6	559.9	517.7	495.4	489.5	484.3	465.2
85°	483.1	485.5	*475.1*	476.3	472.3	462.4	470.0	473.5	467.6	438.9	396.7
87.5°	455.2	458.4	*450.1*	452.4	437.7	440.9	445.7	448.5	445.7	420.2	385.2
90°	383.6	387.2	*394.7*	394.7	395.9	396.7	389.2	393.6	390.8	366.5	341.0
92.5°	340.2	343.4	*343.8*	344.2	341.0	351.4	339.0	331.5	329.5	310.0	291.7
95°	311.2	307.6	*306.8*	307.6	306.0	305.6	297.7	292.1	289.7	274.2	256.3
97.5°	243.5	245.5	*244.7*	246.7	242.7	242.3	235.6	228.4	226.0	213.3	201.4
100°	213.7	213.3	*214.1*	214.5	212.1	209.3	204.5	199.4	196.6	187.0	175.5
102.5°	200.6	200.2	*201.8*	202.1	200.2	198.2	194.2	191.0	188.6	179.9	167.1
105°	192.2	191.0	*193.0*	193.0	188.6	187.4	184.6	184.2	182.7	172.3	160.0
107.5°	180.7	178.7	*181.1*	180.7	179.1	177.9	175.5	173.9	172.7	163.9	150.0

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

Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	169.9	167.1	*168.3*	169.1	170.3	169.5	167.5	164.3	161.2	154.0	142.5
112.5°	150.0	151.6	*151.2*	151.2	152.4	152.8	149.2	147.2	145.2	139.7	132.1
115°	142.5	142.5	*142.5*	142.5	139.3	138.1	134.5	132.1	131.7	125.0	120.2
117.5°	136.5	137.3	*139.3*	140.5	144.4	142.1	134.1	128.9	126.9	124.2	119.0
120°	160.8	158.0	*155.2*	154.8	155.2	153.6	152.0	148.4	143.7	136.1	121.8
122.5°	172.3	165.1	*166.3*	165.9	163.2	164.3	164.7	165.1	162.0	150.0	127.7
125°	144.4	142.5	*143.7*	144.8	145.2	144.8	144.1	147.6	143.3	139.3	122.6
127.5°	115.4	114.6	*112.2*	111.8	111.0	111.4	111.4	112.6	108.6	104.7	103.9
130°	109.8	108.2	*108.6*	109.0	108.6	106.2	104.7	102.7	102.3	98.3	92.7
132.5°	99.5	100.3	*107.0*	107.8	112.6	109.8	101.5	95.9	96.7	98.7	96.7
135°	93.1	92.7	*97.9*	98.3	105.5	103.5	96.7	90.3	90.3	95.1	93.1
137.5°	95.1	95.9	*96.3*	96.7	96.3	95.9	95.5	92.7	90.7	90.3	85.6
140°	102.3	101.9	*97.9*	98.3	97.9	97.9	100.3	102.3	95.5	89.5	81.6
142.5°	107.0	108.2	*106.6*	108.6	112.2	109.0	105.1	99.9	95.9	91.9	87.1
145°	145.2	142.5	*141.3*	140.5	138.1	131.3	127.3	122.2	117.4	111.0	103.1
147.5°	131.7	132.5	*130.1*	130.9	127.7	125.3	124.6	125.0	123.4	119.8	111.4
150°	104.7	105.5	*103.1*	101.9	100.7	100.7	100.7	101.5	99.5	97.1	93.1
152.5°	73.2	72.4	*71.6*	71.2	70.4	69.6	69.6	70.0	68.0	67.3	64.1
155°	67.3	66.9	*63.7*	62.9	63.7	64.5	64.9	63.7	62.1	60.5	56.1
157.5°	52.5	51.3	*50.9*	51.7	51.7	51.3	50.5	51.3	49.7	49.3	48.5
160°	43.0	42.6	*43.0*	43.0	43.4	43.4	43.0	43.0	42.2	42.6	42.6
162.5°	36.6	36.6	*36.6*	36.2	37.0	37.4	37.0	37.0	37.4	38.6	39.4
165°	31.4	31.4	*31.8*	31.8	32.2	32.2	32.6	33.0	33.8	36.6	39.0
167.5°	29.4	29.4	*29.8*	29.8	30.2	30.6	31.4	33.0	35.4	38.6	39.8
170°	29.0	29.0	*29.0*	29.0	29.4	29.8	31.4	33.8	36.6	38.6	37.4
172.5°	30.2	30.2	*30.6*	30.6	30.6	32.2	33.4	35.4	37.0	37.4	36.2
175°	31.4	31.0	*31.4*	31.4	31.8	33.0	34.6	35.4	36.2	36.6	37.0
177.5°	30.6	30.6	*30.6*	31.0	31.0	31.4	32.2	32.6	33.4	34.2	35.4
180°	29.8	29.8	*29.8*	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8

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

Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1
2.5°	186.6	181.5	141.3	121.0	138.1	171.5	174.7	151.2	117.4	81.6	74.4
5°	99.5	105.1	117.4	117.0	109.0	101.9	93.1	87.5	96.7	92.7	95.1
7.5°	89.9	84.8	86.7	101.5	99.1	75.2	68.0	66.5	74.4	92.7	90.7
10°	109.4	107.8	101.9	89.9	86.0	89.1	91.9	89.9	82.8	72.0	70.4
12.5°	123.8	121.8	122.6	130.1	121.0	100.3	88.7	85.2	89.1	105.1	108.2
15°	137.7	134.1	128.9	118.2	109.4	103.9	97.1	89.9	92.3	87.9	86.4
17.5°	147.2	141.7	130.9	123.0	114.2	107.0	101.1	93.5	88.3	87.1	87.5
20°	160.0	154.0	142.5	133.3	122.6	113.0	102.7	94.7	89.5	87.5	87.5
22.5°	174.7	167.5	154.4	141.7	129.7	117.4	105.1	96.3	91.5	89.5	88.7
25°	190.2	183.0	166.7	153.2	138.1	124.6	111.8	100.7	95.5	93.1	91.1
27.5°	206.1	197.4	181.1	164.3	148.0	132.1	118.6	107.0	99.9	95.9	96.3
30°	223.6	216.5	198.2	179.1	158.8	140.1	126.9	113.8	105.1	100.7	101.1
32.5°	247.1	235.6	213.7	191.8	171.9	151.2	134.5	119.4	109.8	107.0	107.4
35°	286.1	271.4	244.7	214.9	188.2	163.9	142.9	125.0	113.8	109.4	109.0
37.5°	356.5	336.6	306.0	271.0	232.4	193.0	158.8	131.3	117.4	110.2	109.0
40°	390.8	363.7	325.1	294.9	268.6	234.8	195.8	154.4	123.4	114.2	113.0
42.5°	436.5	413.8	363.7	304.8	269.8	241.5	214.1	187.4	148.8	125.0	120.6
45°	480.7	460.4	421.0	363.3	311.2	267.0	226.0	197.0	173.1	148.8	146.8
47.5°	555.1	533.6	468.0	416.6	361.7	311.6	268.6	220.9	189.8	172.7	172.7
50°	741.7	702.3	637.5	558.7	470.4	389.2	328.3	269.8	232.4	206.5	205.3
52.5°	1002.4	946.7	851.2	764.0	659.8	565.9	471.1	369.3	314.8	277.4	277.0
55°	1378.8	1321.9	1194.2	1026.7	898.9	786.7	688.4	576.6	490.6	430.2	425.4
57.5°	1780.3	1732.6	1602.5	1394.3	1193.0	994.4	875.4	786.3	744.9	702.7	694.0
60°	2040.6	1958.6	1840.0	1641.5	1446.5	1193.4	1045.8	943.5	929.6	920.4	908.9
62.5°	2204.5	2107.8	1931.6	1693.6	1514.5	1275.0	1142.9	1033.8	1001.2	952.2	938.3
63°	*2223.2*	*2118.2*	*1946.3*	*1692.4*	*1516.5*	*1276.2*	*1150.0*	*1033.8*	*995.6*	*936.7*	*927.6*
65°	2214.5	2117.0	1945.5	1667.7	1470.4	1252.7	1129.3	986.5	925.6	847.6	832.1
67.5°	2080.8	1976.9	1815.4	1542.4	1364.1	1142.1	1006.4	854.8	762.4	686.0	668.1
70°	1694.0	1629.5	1487.5	1251.5	1116.2	943.1	824.1	705.1	605.3	524.9	504.6
72.5°	1290.9	1223.2	1116.6	963.4	863.5	744.5	631.9	540.4	458.0	404.7	406.3
75°	1024.3	959.8	871.9	771.2	689.6	583.8	472.3	381.6	323.1	291.3	288.5
77.5°	824.9	780.3	703.5	610.8	540.4	429.8	330.7	251.5	208.1	189.8	184.6
80°	635.9	604.9	547.6	466.0	392.8	302.0	225.2	177.9	154.8	139.3	136.5
82.5°	452.4	433.7	386.0	329.1	279.3	232.0	197.4	166.3	142.5	129.3	125.3
85°	377.6	360.1	329.9	294.5	262.6	228.0	191.4	158.4	136.1	125.7	120.6
87.5°	366.5	350.2	321.1	283.3	248.7	211.3	174.3	143.3	127.3	117.4	114.2
90°	328.3	316.0	290.5	255.9	221.2	183.0	150.8	128.9	116.6	108.6	105.1
92.5°	282.9	272.2	251.1	222.0	193.0	165.5	140.9	122.6	110.2	102.3	99.5
95°	245.9	239.2	221.6	197.0	175.9	153.2	132.1	114.6	101.9	94.7	91.9
97.5°	196.2	188.2	175.5	158.4	142.5	126.5	111.0	99.1	89.9	85.2	82.8
100°	170.7	165.5	154.0	140.5	126.9	113.0	101.1	91.9	86.0	82.0	80.0
102.5°	160.8	157.2	146.4	132.9	120.2	106.6	94.7	86.4	82.0	78.4	76.8
105°	151.6	148.8	140.5	128.1	115.8	101.1	87.5	80.4	76.4	74.0	72.8
107.5°	142.1	138.9	130.9	119.0	108.2	95.5	83.6	74.8	69.6	66.9	66.5

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

Scaled Data Report

REPORT NUMBER: P1046431
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	134.1	131.7	123.0	113.4	103.1	91.1	80.8	71.6	65.7	62.5	62.1
112.5°	125.7	123.0	114.2	105.1	96.3	86.0	76.8	68.8	63.3	60.1	59.7
115°	114.6	112.2	105.8	97.1	89.9	80.0	72.4	65.3	60.9	57.7	57.3
117.5°	115.8	109.0	100.3	92.3	86.0	78.8	72.0	66.5	59.7	56.1	56.1
120°	117.4	111.0	102.3	95.5	91.9	86.4	76.0	68.0	58.9	55.3	54.9
122.5°	115.8	116.6	111.8	105.1	97.9	88.3	75.6	66.9	57.7	54.9	55.3
125°	112.2	115.8	109.0	99.9	90.3	81.2	70.4	62.5	56.9	54.9	54.5
127.5°	101.5	100.7	91.9	85.2	78.4	70.8	64.1	59.3	55.3	52.9	51.7
130°	89.5	89.1	85.6	80.0	73.2	66.5	60.5	57.3	53.3	50.1	49.3
132.5°	94.3	93.1	85.6	76.4	68.8	63.3	59.3	55.7	50.1	46.6	46.2
135°	89.1	88.3	80.8	71.6	64.9	62.1	59.3	54.1	47.4	44.6	44.2
137.5°	81.6	78.4	72.0	66.5	63.3	62.5	58.9	52.9	46.6	43.4	43.0
140°	77.6	75.2	70.4	66.9	63.3	58.9	53.7	48.1	43.8	41.4	41.0
142.5°	82.4	81.6	74.4	68.0	62.5	57.3	51.7	48.1	43.4	40.2	39.8
145°	97.5	93.5	84.8	76.0	71.2	64.5	57.3	49.7	41.0	36.2	35.0
147.5°	106.6	103.1	94.3	84.8	74.4	63.7	52.5	43.0	36.2	32.6	31.8
150°	88.3	86.7	81.2	72.4	63.7	53.7	44.6	37.8	33.4	31.0	31.0
152.5°	62.1	61.7	59.3	54.1	48.5	43.0	38.2	34.2	31.8	30.2	30.2
155°	54.9	54.1	52.5	47.8	43.8	39.0	35.4	33.0	31.4	30.2	30.2
157.5°	47.4	46.6	46.2	42.6	39.4	36.2	33.4	31.4	30.2	29.4	29.0
160°	42.2	41.0	39.8	37.8	35.8	34.2	33.0	31.4	30.2	29.4	29.4
162.5°	39.4	38.6	36.6	35.0	34.2	34.2	34.6	33.8	31.4	30.2	29.8
165°	39.4	38.2	35.4	33.8	33.8	35.8	37.8	36.2	34.2	31.8	31.4
167.5°	39.8	39.0	36.2	35.0	36.2	38.6	40.6	40.2	37.4	35.4	35.4
170°	37.0	36.6	37.0	38.2	39.4	39.8	40.6	40.2	41.0	43.8	43.8
172.5°	35.8	36.2	38.2	40.2	42.6	42.6	40.6	40.2	43.8	47.8	48.5
175°	37.4	38.2	40.2	42.6	44.6	44.6	42.6	43.0	46.6	50.1	50.9
177.5°	35.8	36.2	37.0	36.6	37.4	35.4	36.2	35.4	36.6	36.6	36.6
180°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8

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

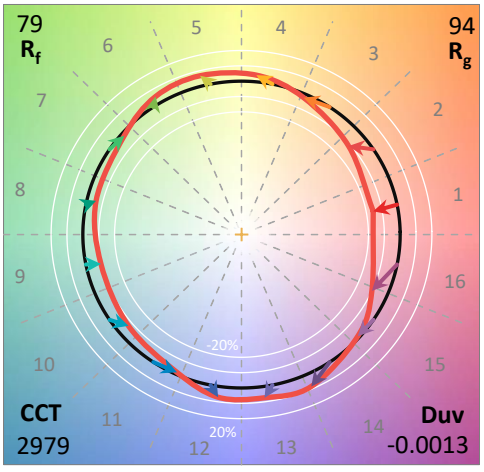
Test Information

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

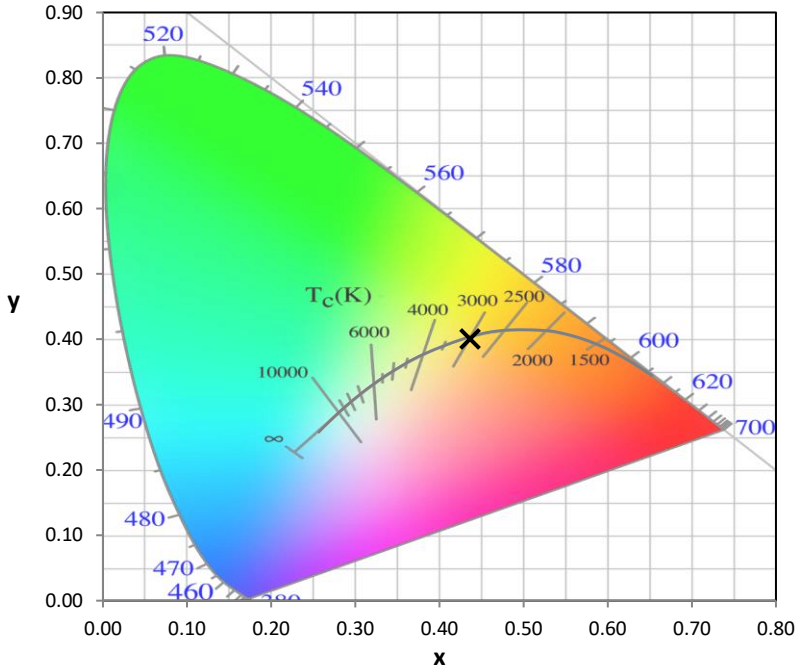
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

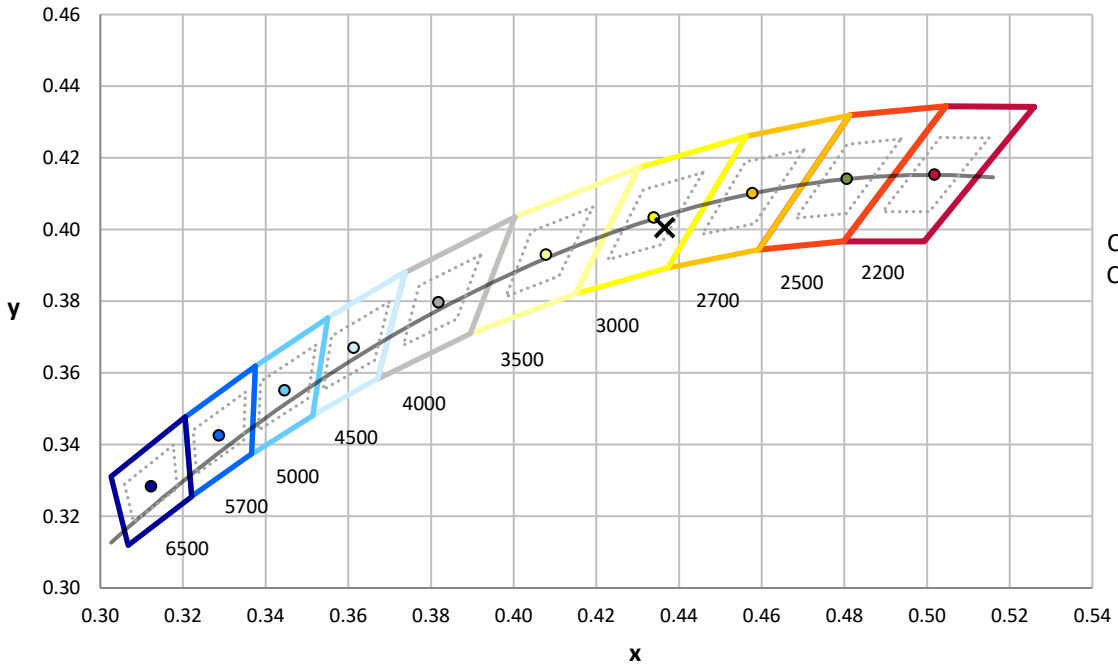
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

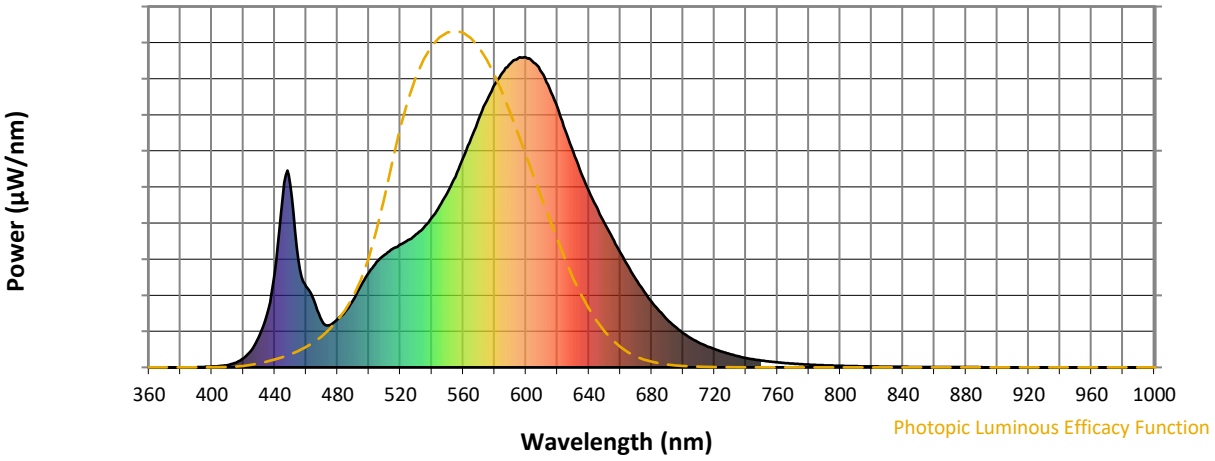


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

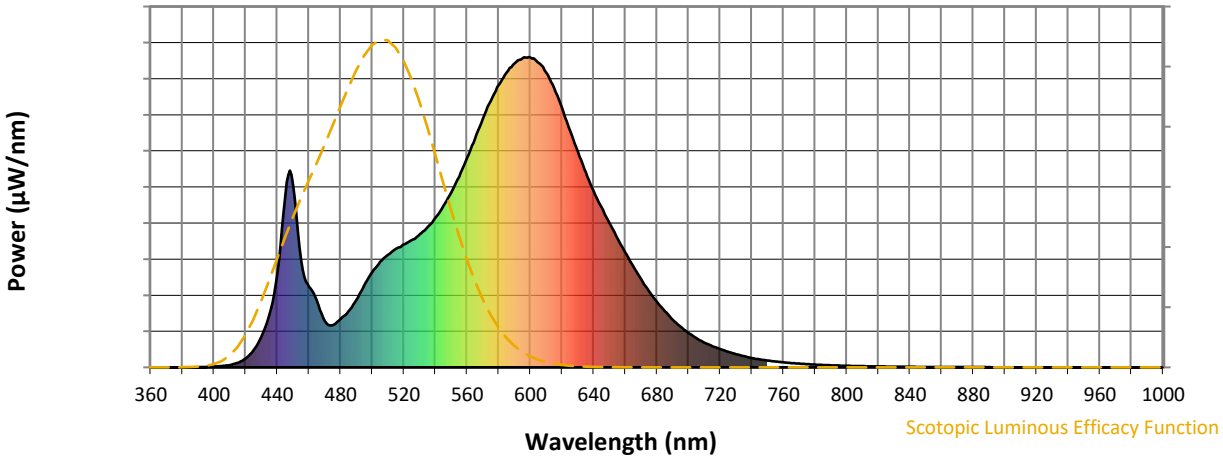


Photopic Lumens: NR

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

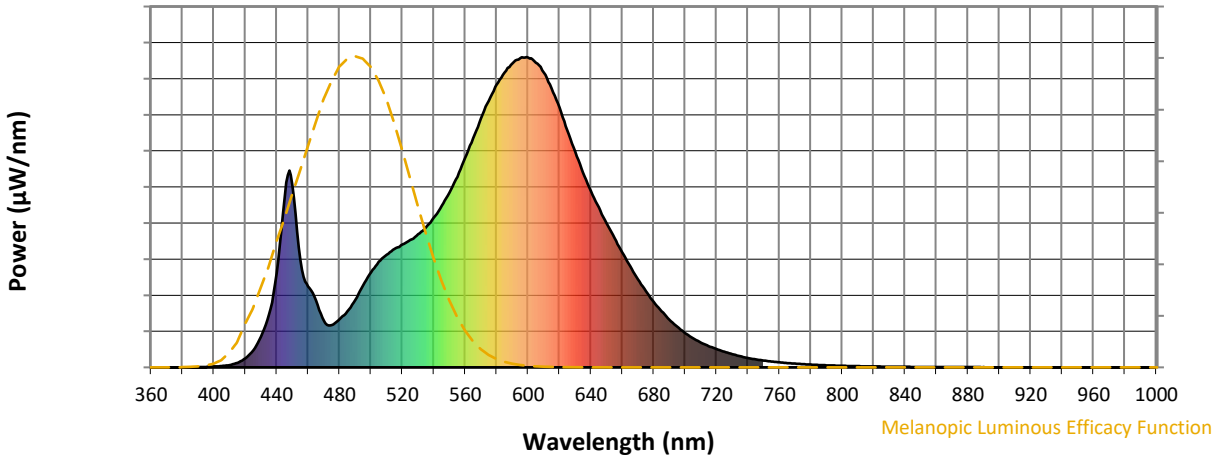


Scotopic Lumens: NR **S/P: 1.29**

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			

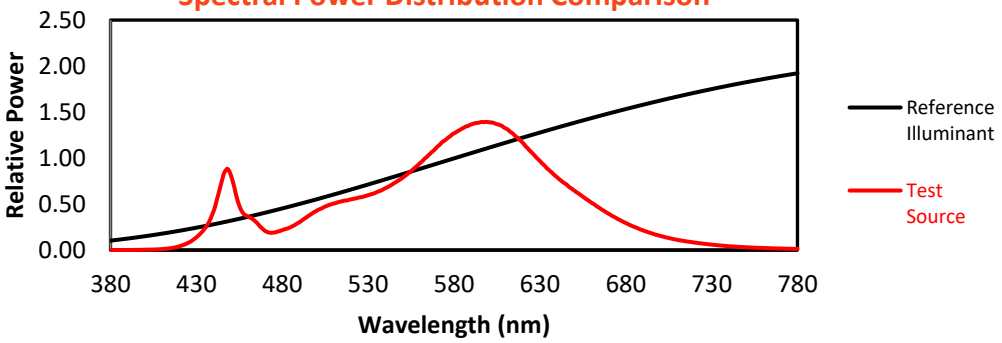
REPORT NUMBER: SP1-2501-332-9

TM-30-18

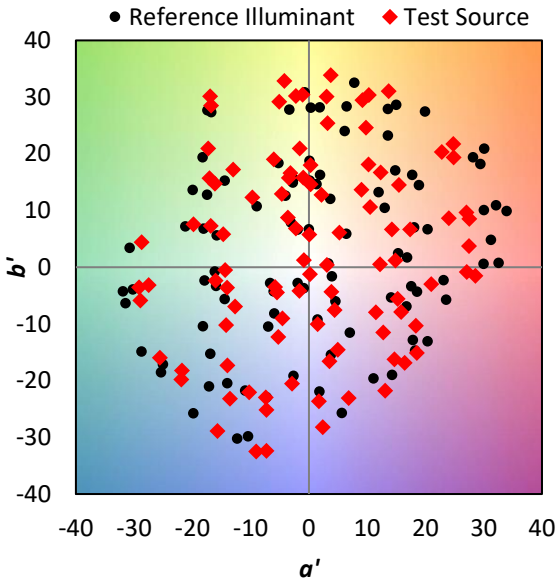
Summary

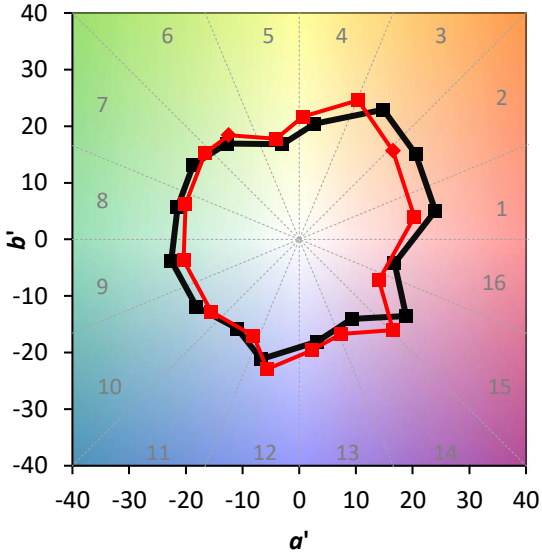
R_f = 79.2
R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

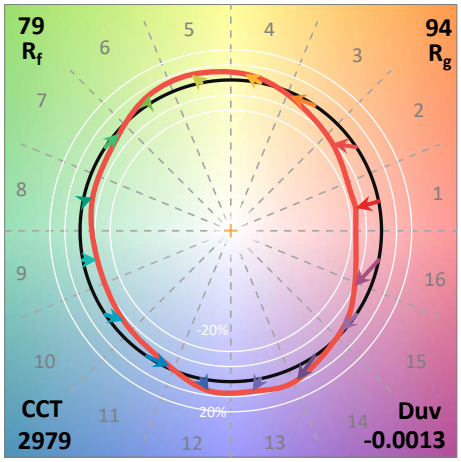
Spectral Power Distribution Comparison

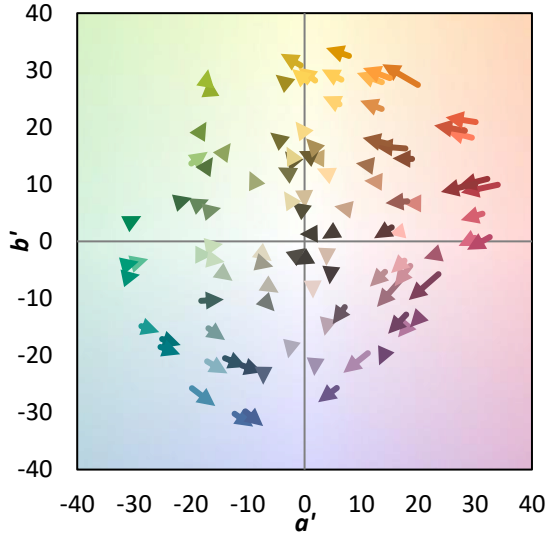


Color Vector Graphics







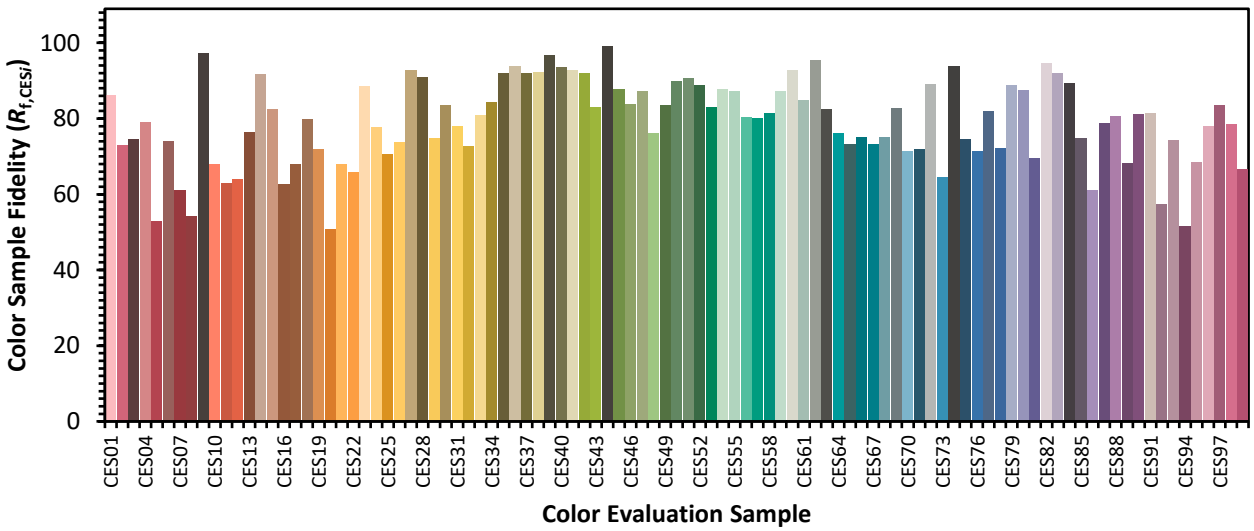


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

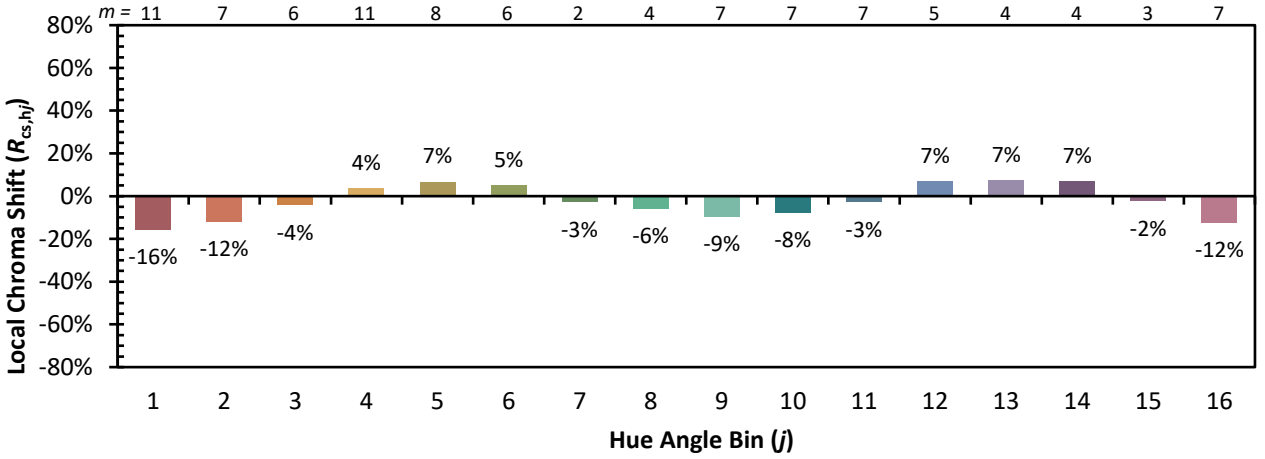
CES01 = 86	CES26 = 74	CES51 = 91	CES76 = 71
CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82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

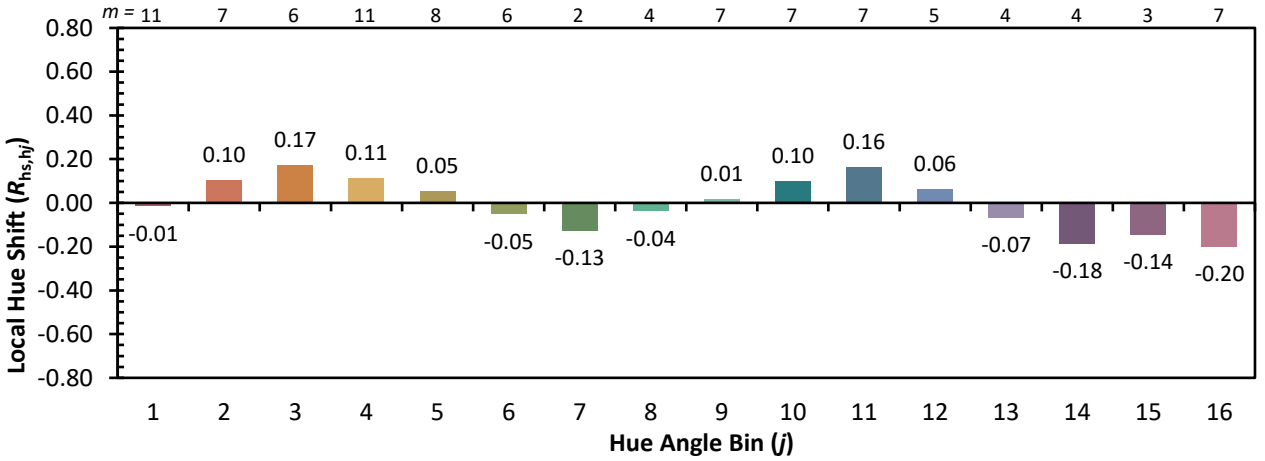


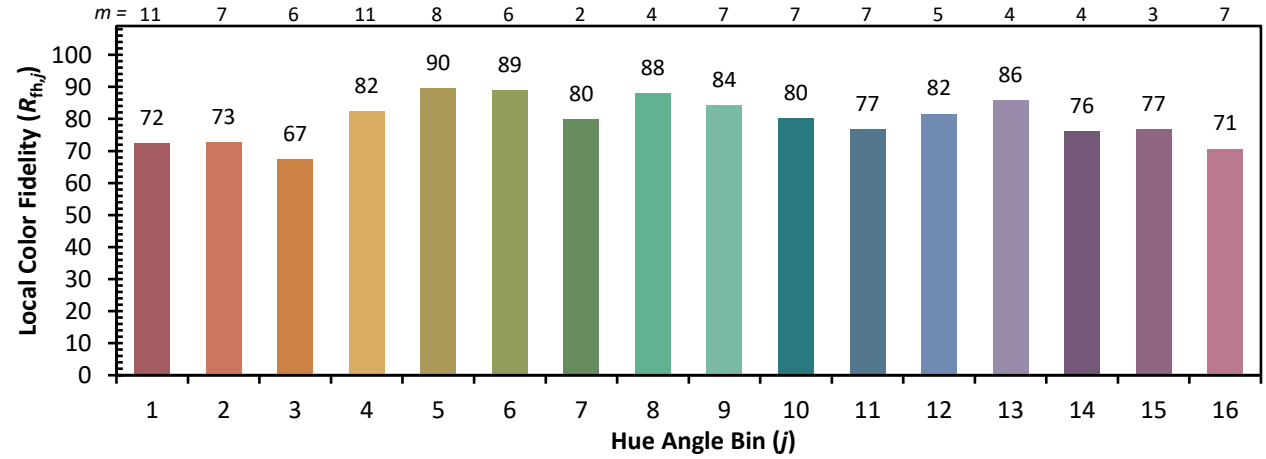
REPORT NUMBER: SP1-2501-332-9

TM-30-18

Color Rendition by Hue-Angle Bin



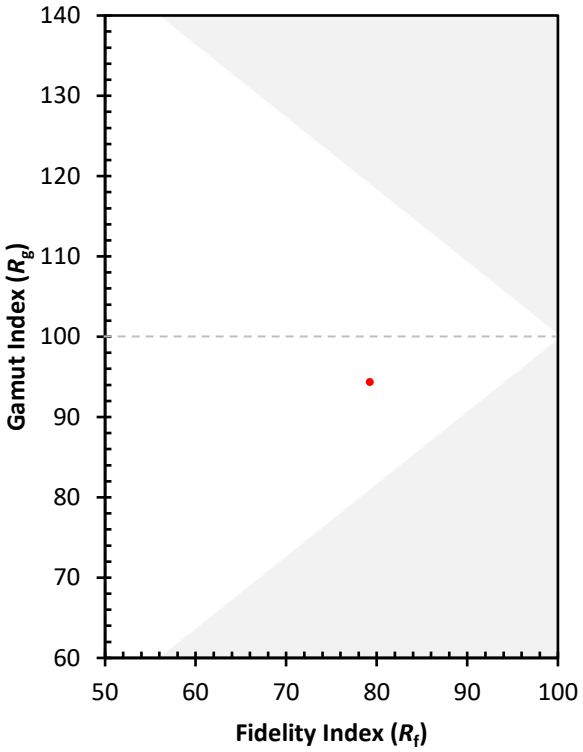


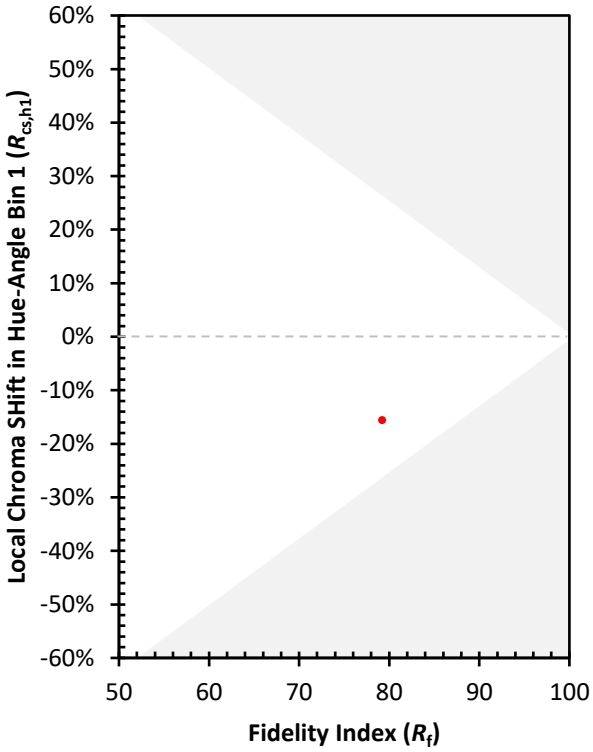


REPORT NUMBER: SP1-2501-332-9

TM-30-18

Measure Comparisons





(END OF REPORT)