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: P1046421

Luminaire Tested: **FFX-CLB-50-727-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:	P1046421
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7282.9 lumens
Efficiency:	N/A
Efficacy:	143.9 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

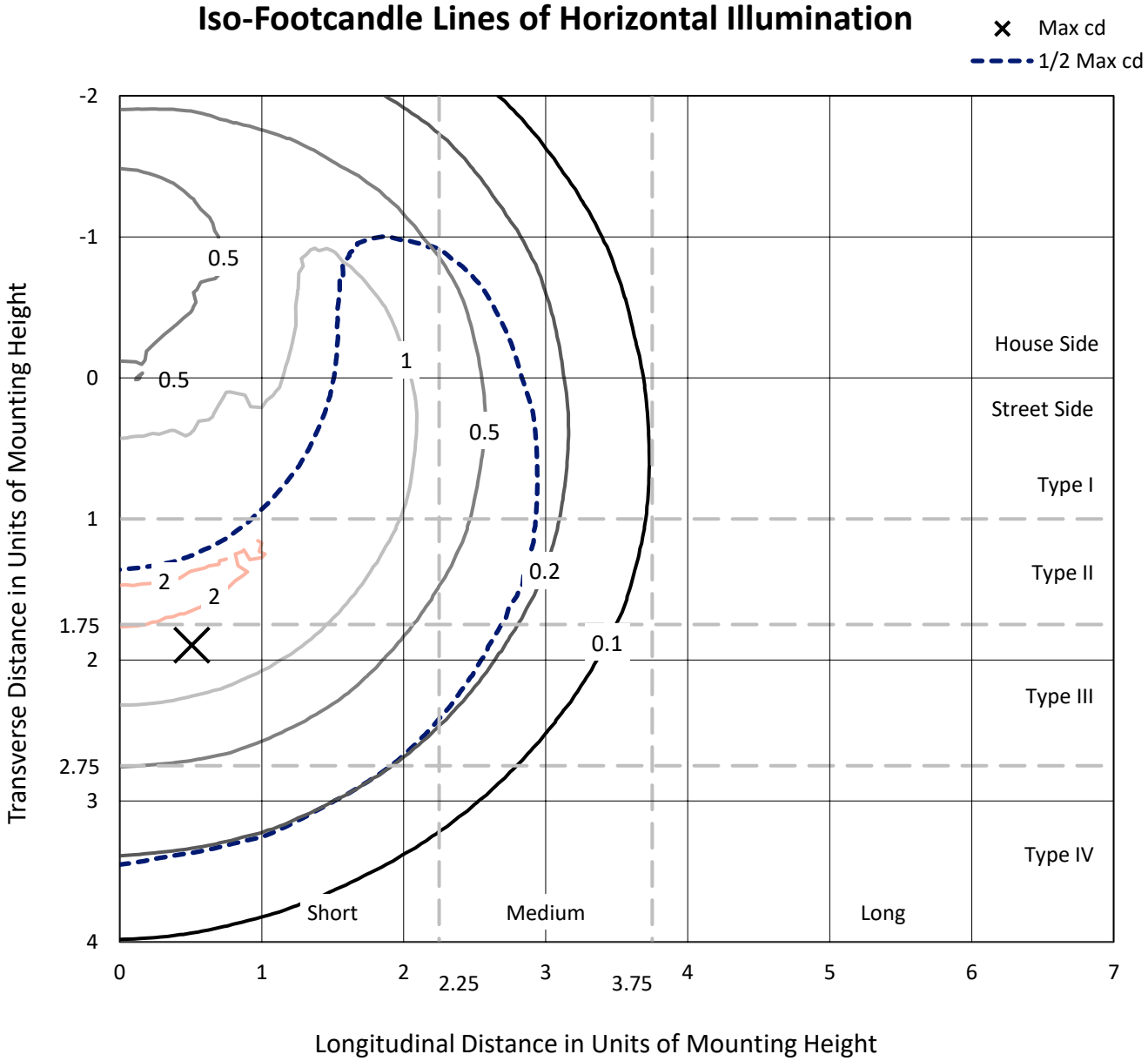


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

Iso-Footcandle Lines of Horizontal Illumination



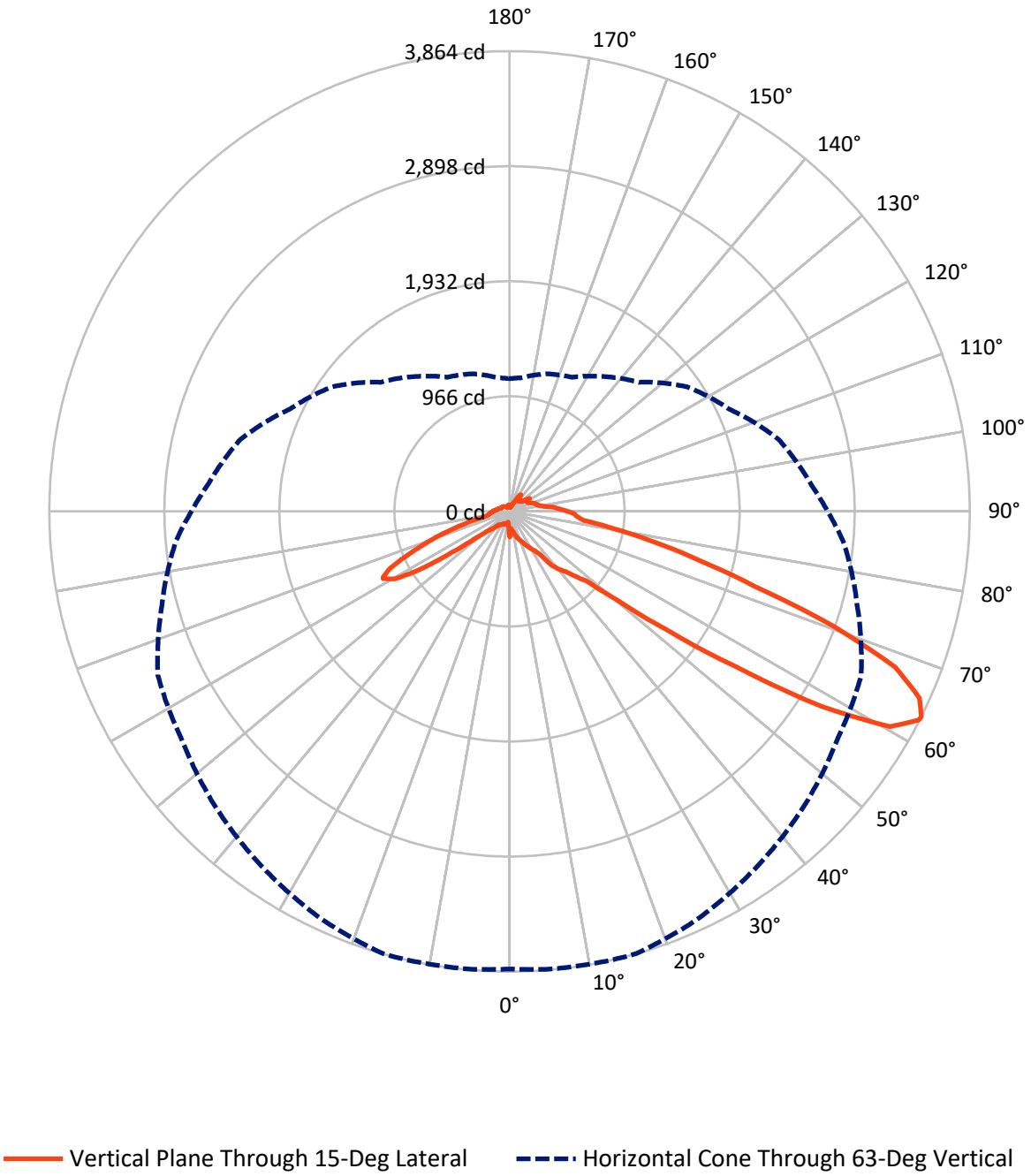
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

Luminous Intensity Polar Plot



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

Scaled Data Report

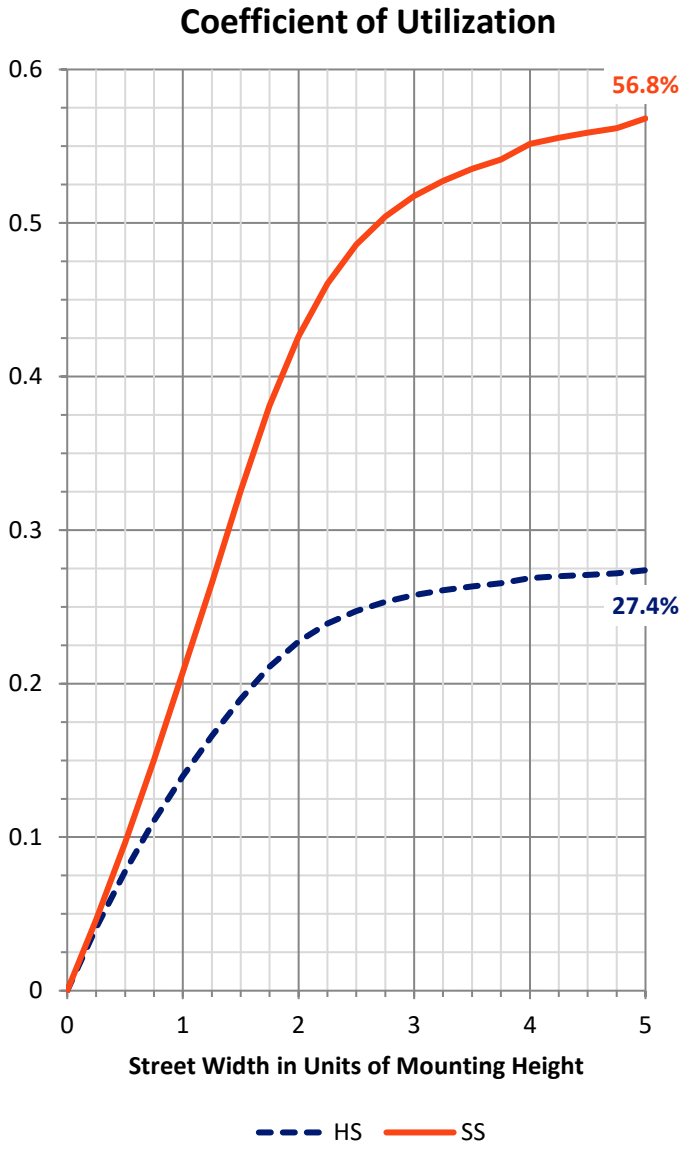
REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.7	335.6	2395.3
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	4312.8	574.9	4887.6
	% Fixture	59.2	7.9	67.1
Total	Lumens	6372.5	910.4	7282.9
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.2
10°-20°	47.7	0.7
20°-30°	103.3	1.4
30°-40°	212.4	2.9
40°-50°	438.0	6.0
50°-60°	1440.8	19.8
60°-70°	2385.5	32.8
70°-80°	1251.2	17.2
80°-90°	480.4	6.6
90°-100°	290.2	4.0
100°-110°	182.8	2.5
110°-120°	135.4	1.9
120°-130°	115.2	1.6
130°-140°	75.1	1.0
140°-150°	65.3	0.9
150°-160°	29.9	0.4
160°-170°	12.2	0.2
170°-180°	4.2	0.1
0°-90°	6372.5	87.5
0°-180°	7282.9	100.0



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

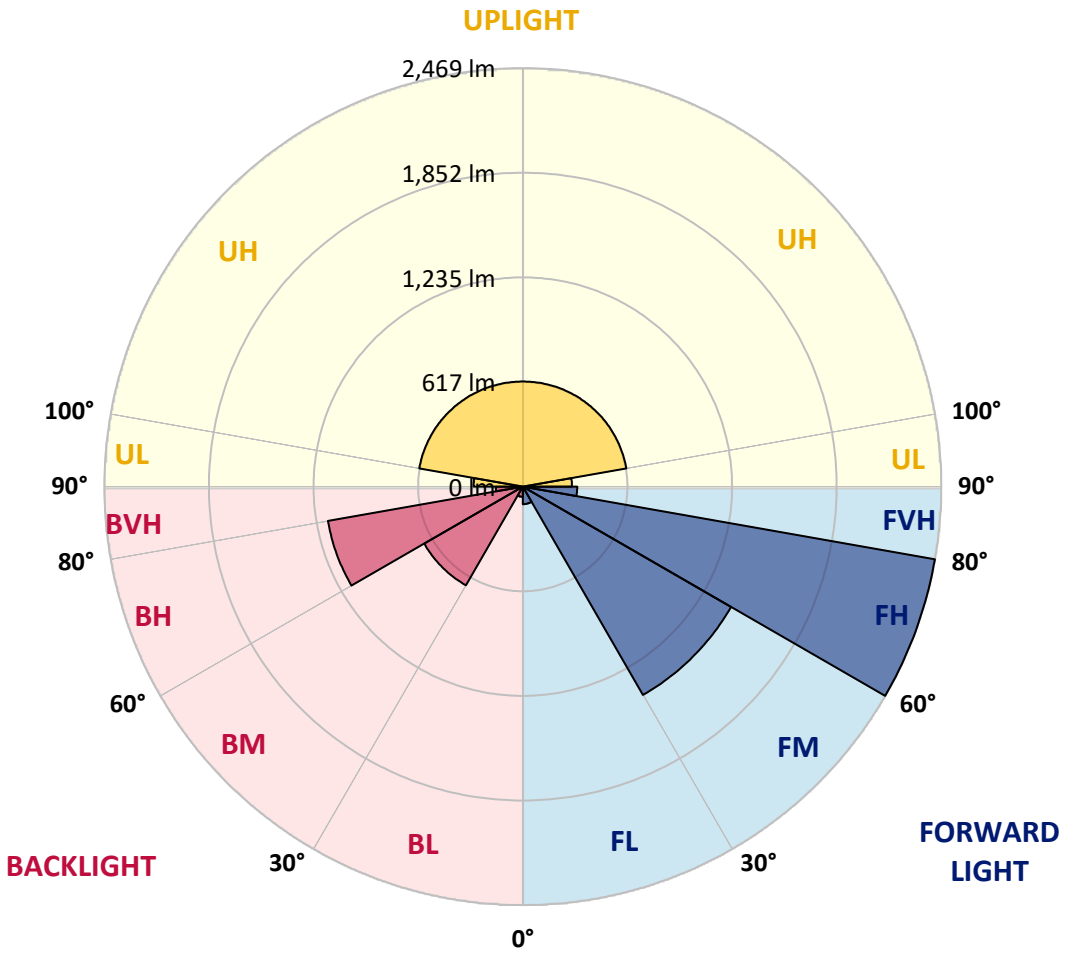
Scaled Data Report

REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-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°)	103.6	1.4			
FM	(30°-60°)	1419.1	19.5			
FH	(60°-80°)	2469.0	33.9			G2/5000
FVH	(80°-90°)	321.0	4.4			G3/500
BL	(0°-30°)	60.6	0.8	B0/110		
BM	(30°-60°)	672.0	9.2	B1/1000		
BH	(60°-80°)	1167.6	16.0	B3/2500		G3/2500
BVH	(80°-90°)	159.4	2.2			G2/225
UL	(90°-100°)	290.2	4.0		U3/500	
UH	(100°-180°)	620.2	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: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	215.1	215.1	*215.1*	215.1	215.1	215.1	215.1	215.1	215.1	215.1	215.1
2.5°	132.4	132.4	*151.5*	154.9	173.0	178.8	168.7	161.1	179.7	218.0	224.2
5°	143.9	146.7	*146.3*	145.8	146.7	163.9	181.6	173.5	142.4	113.3	113.3
7.5°	163.0	163.9	*163.5*	163.0	156.8	146.7	142.4	155.3	163.5	139.1	116.6
10°	176.4	175.4	*174.9*	174.5	175.4	179.2	177.8	162.0	146.3	138.1	133.4
12.5°	201.7	202.2	*200.8*	199.8	198.8	197.4	196.0	199.3	190.7	167.3	151.5
15°	220.8	220.8	*224.7*	223.7	223.7	218.9	212.2	202.7	191.2	185.0	171.1
17.5°	240.9	241.4	*240.9*	240.9	239.0	232.8	225.6	217.0	205.1	194.5	182.6
20°	260.5	260.5	*260.0*	259.5	259.1	254.3	245.2	233.7	222.7	212.7	200.3
22.5°	281.1	282.5	*283.4*	282.5	281.1	276.3	266.2	255.2	244.7	230.4	217.0
25°	310.2	310.7	*309.7*	308.8	306.9	300.7	293.0	281.5	268.6	253.3	235.6
27.5°	337.9	338.9	*338.4*	338.4	334.6	329.3	321.7	306.4	292.0	274.4	256.2
30°	369.5	368.5	*366.1*	366.6	364.2	359.9	351.3	337.9	319.8	298.7	278.7
32.5°	400.6	400.6	*397.2*	395.8	395.8	390.0	380.5	366.6	349.4	326.9	307.3
35°	434.5	443.1	*451.7*	455.0	455.0	446.9	435.4	417.3	402.5	379.0	354.7
37.5°	597.5	592.2	*571.2*	573.6	566.4	563.1	555.4	540.1	519.6	483.7	446.4
40°	654.8	653.9	*638.1*	636.2	632.9	621.9	613.7	603.2	596.0	553.0	497.1
42.5°	664.9	670.1	*691.2*	696.4	723.7	706.9	674.4	615.2	600.3	567.8	544.4
45°	777.7	779.6	*779.6*	780.5	773.4	761.0	756.6	718.9	689.3	642.4	598.4
47.5°	890.0	894.3	*877.6*	891.0	909.6	884.3	872.8	841.7	801.1	764.8	692.6
50°	1151.0	1167.7	*1171.1*	1171.5	1179.7	1177.8	1160.5	1117.5	1076.9	993.7	913.4
52.5°	1634.2	1650.5	*1657.6*	1640.4	1615.1	1603.6	1607.9	1590.3	1496.1	1406.7	1243.7
55°	2265.2	2293.4	*2293.4*	2311.5	2303.9	2249.4	2246.0	2130.4	1978.4	1879.0	1737.0
57.5°	3109.3	3066.7	*3090.6*	3116.5	3063.9	3006.5	2921.0	2800.0	2577.8	2406.2	2200.6
60°	3735.0	3717.8	*3670.4*	3641.3	3509.8	3396.1	3328.7	3240.3	3071.5	2845.9	2571.1
62.5°	3849.7	3862.1	*3858.8*	3858.8	3753.6	3617.4	3481.2	3351.6	3246.9	3014.6	2797.2
63°	*3842.5*	*3857.8*	*3864.0*	*3862.1*	*3767.5*	*3633.2*	*3497.9*	*3355.0*	*3257.9*	*3020.9*	*2810.5*
65°	3781.3	3794.2	*3783.2*	3779.4	3719.7	3628.9	3476.9	3335.4	3246.9	2993.1	2812.5
67.5°	3535.6	3532.8	*3491.7*	3510.3	3472.6	3421.9	3279.9	3140.4	3079.2	2801.9	2635.6
70°	2855.5	2835.4	*2880.3*	2907.1	2866.0	2845.9	2677.2	2585.4	2506.5	2295.8	2161.4
72.5°	2183.0	2141.4	*2149.0*	2173.4	2121.8	2107.9	2035.7	1960.2	1922.5	1791.0	1641.9
75°	1711.7	1689.2	*1647.6*	1654.3	1611.8	1597.9	1590.3	1568.3	1553.4	1444.0	1296.3
77.5°	1280.0	1279.1	*1244.2*	1238.9	1208.3	1231.3	1222.2	1255.2	1248.0	1161.0	1048.7
80°	895.7	890.5	*899.6*	896.2	889.1	902.4	888.1	906.3	906.3	849.4	802.1
82.5°	584.6	595.1	*623.8*	630.5	641.0	672.5	621.9	595.1	587.9	581.7	558.8
85°	580.3	583.1	*570.7*	572.1	567.4	555.4	564.5	568.8	561.6	527.2	476.6
87.5°	546.8	550.6	*540.6*	543.5	525.8	529.6	535.3	538.7	535.3	504.8	462.7
90°	460.8	465.1	*474.2*	474.2	475.6	476.6	467.5	472.7	469.4	440.2	409.6
92.5°	408.7	412.5	*413.0*	413.5	409.6	422.1	407.2	398.2	395.8	372.3	350.4
95°	373.8	369.5	*368.5*	369.5	367.6	367.1	357.5	350.8	348.0	329.3	307.8
97.5°	292.5	294.9	*294.0*	296.4	291.6	291.1	283.0	274.4	271.5	256.2	241.9
100°	256.7	256.2	*257.2*	257.6	254.8	251.4	245.7	239.5	236.1	224.7	210.8
102.5°	240.9	240.4	*242.3*	242.8	240.4	238.0	233.3	229.4	226.6	216.0	200.8
105°	230.9	229.4	*231.8*	231.8	226.6	225.1	221.8	221.3	219.4	207.0	192.1
107.5°	217.0	214.6	*217.5*	217.0	215.1	213.7	210.8	208.9	207.4	196.9	180.2

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

Scaled Data Report

REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	204.1	200.8	*202.2*	203.1	204.6	203.6	201.2	197.4	193.6	185.0	171.1
112.5°	180.2	182.1	*181.6*	181.6	183.1	183.5	179.2	176.9	174.5	167.8	158.7
115°	171.1	171.1	*171.1*	171.1	167.3	165.9	161.6	158.7	158.2	150.1	144.4
117.5°	163.9	164.9	*167.3*	168.7	173.5	170.6	161.1	154.9	152.5	149.1	142.9
120°	193.1	189.8	*186.4*	185.9	186.4	184.5	182.6	178.3	172.6	163.5	146.3
122.5°	207.0	198.4	*199.8*	199.3	196.0	197.4	197.9	198.4	194.5	180.2	153.4
125°	173.5	171.1	*172.6*	174.0	174.5	174.0	173.0	177.3	172.1	167.3	147.2
127.5°	138.6	137.7	*134.8*	134.3	133.4	133.8	133.8	135.3	130.5	125.7	124.8
130°	131.9	130.0	*130.5*	131.0	130.5	127.6	125.7	123.3	122.8	118.1	111.4
132.5°	119.5	120.5	*128.6*	129.5	135.3	131.9	121.9	115.2	116.2	118.5	116.2
135°	111.8	111.4	*117.6*	118.1	126.7	124.3	116.2	108.5	108.5	114.2	111.8
137.5°	114.2	115.2	*115.7*	116.2	115.7	115.2	114.7	111.4	109.0	108.5	102.8
140°	122.8	122.4	*117.6*	118.1	117.6	117.6	120.5	122.8	114.7	107.5	98.0
142.5°	128.6	130.0	*128.1*	130.5	134.8	131.0	126.2	120.0	115.2	110.4	104.7
145°	174.5	171.1	*169.7*	168.7	165.9	157.7	153.0	146.7	141.0	133.4	123.8
147.5°	158.2	159.2	*156.3*	157.3	153.4	150.6	149.6	150.1	148.2	143.9	133.8
150°	125.7	126.7	*123.8*	122.4	120.9	120.9	120.9	121.9	119.5	116.6	111.8
152.5°	87.9	87.0	*86.0*	85.6	84.6	83.6	83.6	84.1	81.7	80.8	77.0
155°	80.8	80.3	*76.5*	75.5	76.5	77.4	77.9	76.5	74.6	72.7	67.4
157.5°	63.1	61.7	*61.2*	62.1	62.1	61.7	60.7	61.7	59.7	59.3	58.3
160°	51.6	51.1	*51.6*	51.6	52.1	52.1	51.6	51.6	50.7	51.1	51.1
162.5°	44.0	44.0	*44.0*	43.5	44.5	44.9	44.5	44.5	44.9	46.4	47.3
165°	37.8	37.8	*38.2*	38.2	38.7	38.7	39.2	39.7	40.6	44.0	46.8
167.5°	35.4	35.4	*35.8*	35.8	36.3	36.8	37.8	39.7	42.5	46.4	47.8
170°	34.9	34.9	*34.9*	34.9	35.4	35.8	37.8	40.6	44.0	46.4	44.9
172.5°	36.3	36.3	*36.8*	36.8	36.8	38.7	40.2	42.5	44.5	44.9	43.5
175°	37.8	37.3	*37.8*	37.8	38.2	39.7	41.6	42.5	43.5	44.0	44.5
177.5°	36.8	36.8	*36.8*	37.3	37.3	37.8	38.7	39.2	40.2	41.1	42.5
180°	35.8	35.8	*35.8*	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8

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

Scaled Data Report

REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	215.1	215.1	215.1	215.1	215.1	215.1	215.1	215.1	215.1	215.1	215.1
2.5°	224.2	218.0	169.7	145.3	165.9	206.0	209.8	181.6	141.0	98.0	89.4
5°	119.5	126.2	141.0	140.5	131.0	122.4	111.8	105.2	116.2	111.4	114.2
7.5°	108.0	101.8	104.2	121.9	119.0	90.3	81.7	79.8	89.4	111.4	109.0
10°	131.4	129.5	122.4	108.0	103.2	107.1	110.4	108.0	99.4	86.5	84.6
12.5°	148.7	146.3	147.2	156.3	145.3	120.5	106.6	102.3	107.1	126.2	130.0
15°	165.4	161.1	154.9	142.0	131.4	124.8	116.6	108.0	110.9	105.6	103.7
17.5°	176.9	170.2	157.3	147.7	137.2	128.6	121.4	112.3	106.1	104.7	105.2
20°	192.1	185.0	171.1	160.1	147.2	135.7	123.3	113.8	107.5	105.2	105.2
22.5°	209.8	201.2	185.5	170.2	155.8	141.0	126.2	115.7	109.9	107.5	106.6
25°	228.5	219.9	200.3	184.0	165.9	149.6	134.3	120.9	114.7	111.8	109.5
27.5°	247.6	237.1	217.5	197.4	177.8	158.7	142.4	128.6	120.0	115.2	115.7
30°	268.6	260.0	238.0	215.1	190.7	168.3	152.5	136.7	126.2	120.9	121.4
32.5°	296.8	283.0	256.7	230.4	206.5	181.6	161.6	143.4	131.9	128.6	129.1
35°	343.7	326.0	294.0	258.1	226.1	196.9	171.6	150.1	136.7	131.4	131.0
37.5°	428.3	404.4	367.6	325.5	279.1	231.8	190.7	157.7	141.0	132.4	131.0
40°	469.4	436.9	390.5	354.2	322.6	282.0	235.2	185.5	148.2	137.2	135.7
42.5°	524.3	497.1	436.9	366.1	324.1	290.1	257.2	225.1	178.8	150.1	144.8
45°	577.4	553.0	505.7	436.4	373.8	320.7	271.5	236.6	207.9	178.8	176.4
47.5°	666.8	641.0	562.1	500.4	434.5	374.3	322.6	265.3	228.0	207.4	207.4
50°	891.0	843.6	765.7	671.1	565.0	467.5	394.3	324.1	279.1	248.1	246.6
52.5°	1204.0	1137.1	1022.4	917.7	792.5	679.7	565.9	443.6	378.1	333.2	332.7
55°	1656.2	1587.9	1434.4	1233.2	1079.8	945.0	826.9	692.6	589.4	516.7	511.0
57.5°	2138.5	2081.1	1924.8	1674.9	1433.0	1194.5	1051.6	944.5	894.8	844.1	833.6
60°	2451.1	2352.6	2210.2	1971.7	1737.5	1433.5	1256.1	1133.3	1116.6	1105.6	1091.7
62.5°	2648.0	2531.9	2320.1	2034.3	1819.2	1531.5	1372.8	1241.8	1202.6	1143.8	1127.1
63°	*2670.5*	*2544.3*	*2337.8*	*2032.9*	*1821.6*	*1532.9*	*1381.4*	*1241.8*	*1195.9*	*1125.2*	*1114.2*
65°	2660.0	2542.9	2336.9	2003.2	1766.2	1504.7	1356.5	1184.9	1111.8	1018.1	999.5
67.5°	2499.4	2374.6	2180.6	1852.7	1638.5	1371.8	1208.8	1026.7	915.8	824.0	802.5
70°	2034.8	1957.3	1786.7	1503.3	1340.7	1132.8	989.9	847.0	727.0	630.5	606.1
72.5°	1550.6	1469.3	1341.2	1157.2	1037.2	894.3	759.0	649.1	550.2	486.1	488.0
75°	1230.3	1152.9	1047.3	926.3	828.3	701.2	567.4	458.4	388.1	349.9	346.5
77.5°	990.9	937.3	845.1	733.7	649.1	516.2	397.2	302.1	250.0	228.0	221.8
80°	763.8	726.5	657.7	559.7	471.8	362.8	270.5	213.7	185.9	167.3	163.9
82.5°	543.5	521.0	463.6	395.3	335.5	278.7	237.1	199.8	171.1	155.3	150.6
85°	453.6	432.6	396.2	353.7	315.5	273.9	229.9	190.2	163.5	151.0	144.8
87.5°	440.2	420.6	385.7	340.3	298.7	253.8	209.4	172.1	153.0	141.0	137.2
90°	394.3	379.5	348.9	307.3	265.8	219.9	181.2	154.9	140.0	130.5	126.2
92.5°	339.8	326.9	301.6	266.7	231.8	198.8	169.2	147.2	132.4	122.8	119.5
95°	295.4	287.3	266.2	236.6	211.3	184.0	158.7	137.7	122.4	113.8	110.4
97.5°	235.6	226.1	210.8	190.2	171.1	152.0	133.4	119.0	108.0	102.3	99.4
100°	205.1	198.8	185.0	168.7	152.5	135.7	121.4	110.4	103.2	98.5	96.1
102.5°	193.1	188.8	175.9	159.6	144.4	128.1	113.8	103.7	98.5	94.2	92.3
105°	182.1	178.8	168.7	153.9	139.1	121.4	105.2	96.6	91.8	88.9	87.5
107.5°	170.6	166.8	157.3	142.9	130.0	114.7	100.4	89.9	83.6	80.3	79.8

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

Scaled Data Report

REPORT NUMBER: P1046421
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	161.1	158.2	147.7	136.2	123.8	109.5	97.0	86.0	78.9	75.0	74.6
112.5°	151.0	147.7	137.2	126.2	115.7	103.2	92.3	82.7	76.0	72.2	71.7
115°	137.7	134.8	127.1	116.6	108.0	96.1	87.0	78.4	73.1	69.3	68.8
117.5°	139.1	131.0	120.5	110.9	103.2	94.6	86.5	79.8	71.7	67.4	67.4
120°	141.0	133.4	122.8	114.7	110.4	103.7	91.3	81.7	70.7	66.4	66.0
122.5°	139.1	140.0	134.3	126.2	117.6	106.1	90.8	80.3	69.3	66.0	66.4
125°	134.8	139.1	131.0	120.0	108.5	97.5	84.6	75.0	68.4	66.0	65.5
127.5°	121.9	120.9	110.4	102.3	94.2	85.1	77.0	71.2	66.4	63.6	62.1
130°	107.5	107.1	102.8	96.1	87.9	79.8	72.7	68.8	64.0	60.2	59.3
132.5°	113.3	111.8	102.8	91.8	82.7	76.0	71.2	66.9	60.2	55.9	55.4
135°	107.1	106.1	97.0	86.0	77.9	74.6	71.2	65.0	56.9	53.5	53.1
137.5°	98.0	94.2	86.5	79.8	76.0	75.0	70.7	63.6	55.9	52.1	51.6
140°	93.2	90.3	84.6	80.3	76.0	70.7	64.5	57.8	52.6	49.7	49.2
142.5°	98.9	98.0	89.4	81.7	75.0	68.8	62.1	57.8	52.1	48.3	47.8
145°	117.1	112.3	101.8	91.3	85.6	77.4	68.8	59.7	49.2	43.5	42.1
147.5°	128.1	123.8	113.3	101.8	89.4	76.5	63.1	51.6	43.5	39.2	38.2
150°	106.1	104.2	97.5	87.0	76.5	64.5	53.5	45.4	40.2	37.3	37.3
152.5°	74.6	74.1	71.2	65.0	58.3	51.6	45.9	41.1	38.2	36.3	36.3
155°	66.0	65.0	63.1	57.4	52.6	46.8	42.5	39.7	37.8	36.3	36.3
157.5°	56.9	55.9	55.4	51.1	47.3	43.5	40.2	37.8	36.3	35.4	34.9
160°	50.7	49.2	47.8	45.4	43.0	41.1	39.7	37.8	36.3	35.4	35.4
162.5°	47.3	46.4	44.0	42.1	41.1	41.1	41.6	40.6	37.8	36.3	35.8
165°	47.3	45.9	42.5	40.6	40.6	43.0	45.4	43.5	41.1	38.2	37.8
167.5°	47.8	46.8	43.5	42.1	43.5	46.4	48.8	48.3	44.9	42.5	42.5
170°	44.5	44.0	44.5	45.9	47.3	47.8	48.8	48.3	49.2	52.6	52.6
172.5°	43.0	43.5	45.9	48.3	51.1	51.1	48.8	48.3	52.6	57.4	58.3
175°	44.9	45.9	48.3	51.1	53.5	53.5	51.1	51.6	55.9	60.2	61.2
177.5°	43.0	43.5	44.5	44.0	44.9	42.5	43.5	42.5	44.0	44.0	44.0
180°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

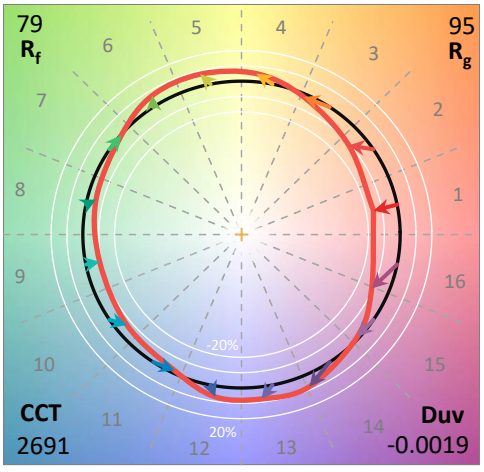
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

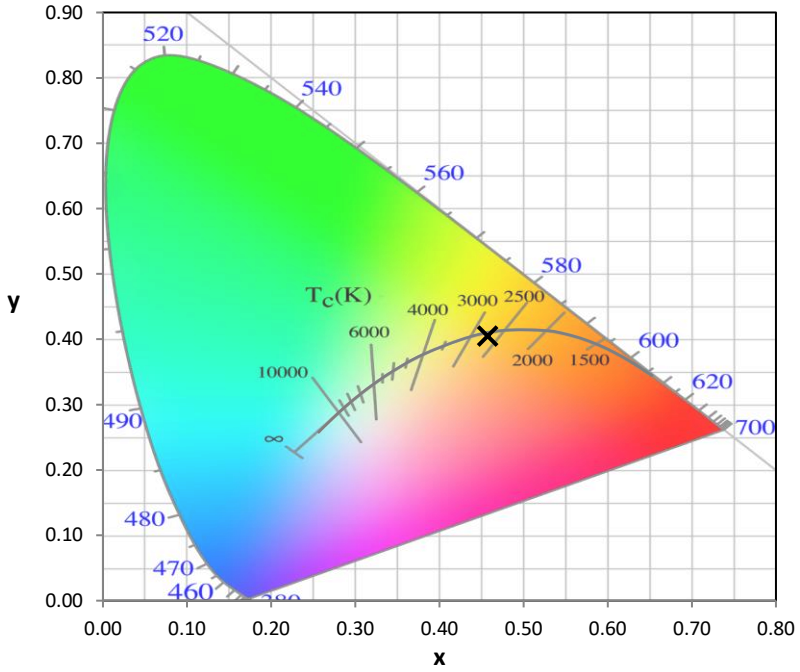
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

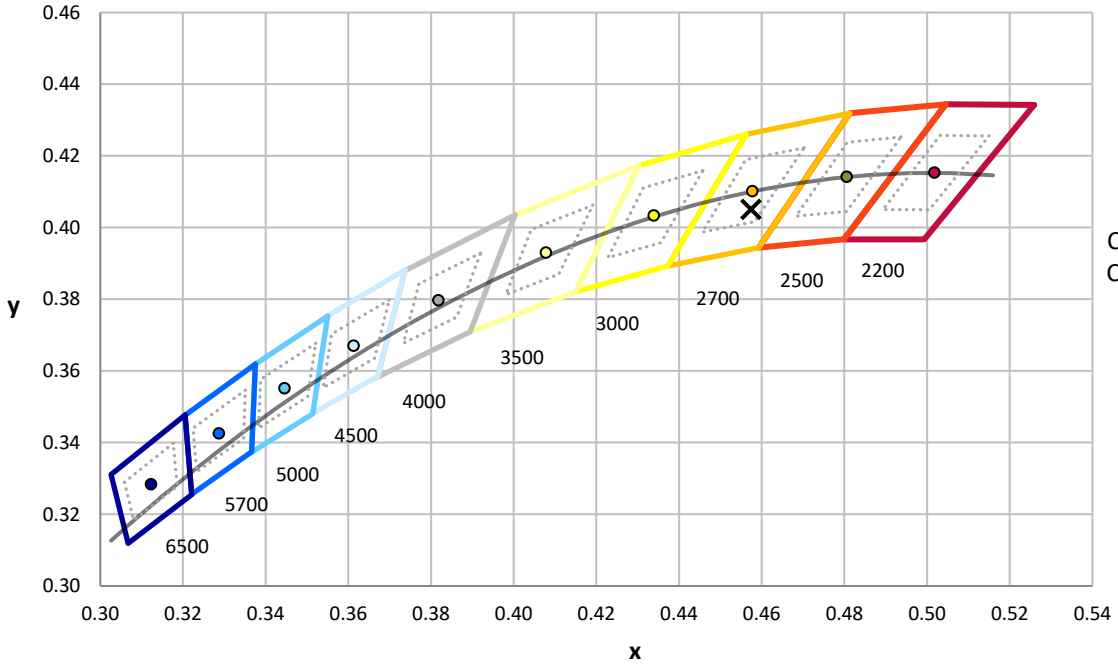
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

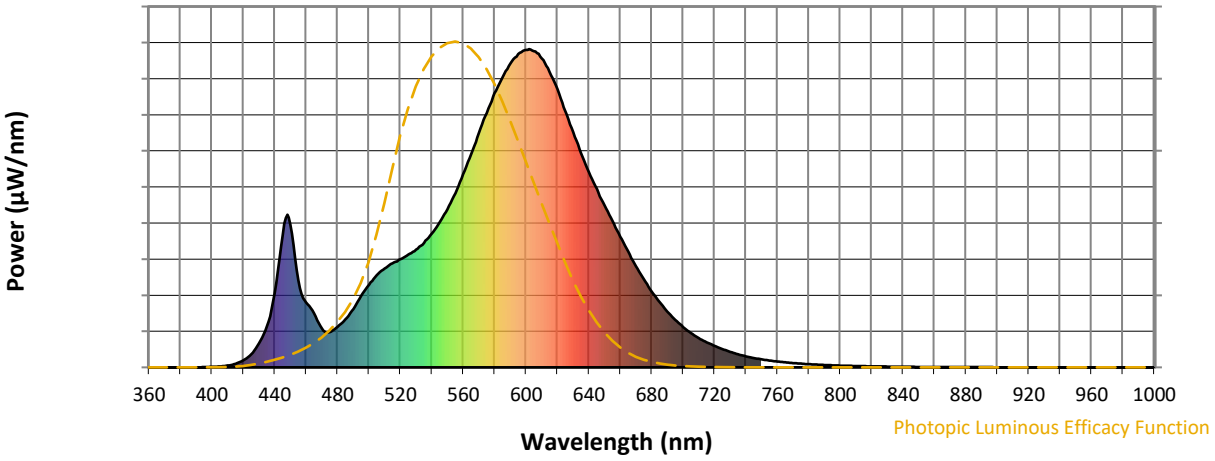


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

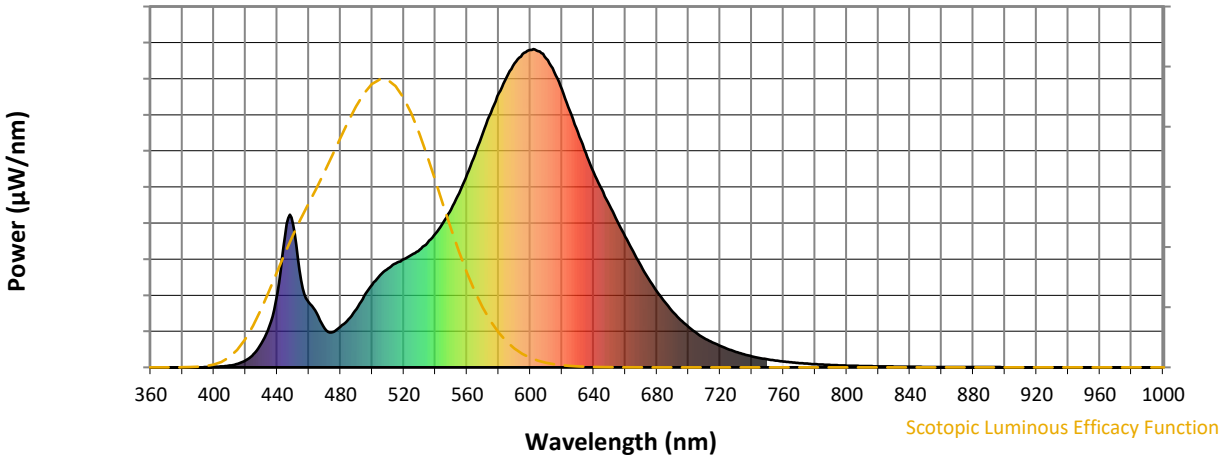


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

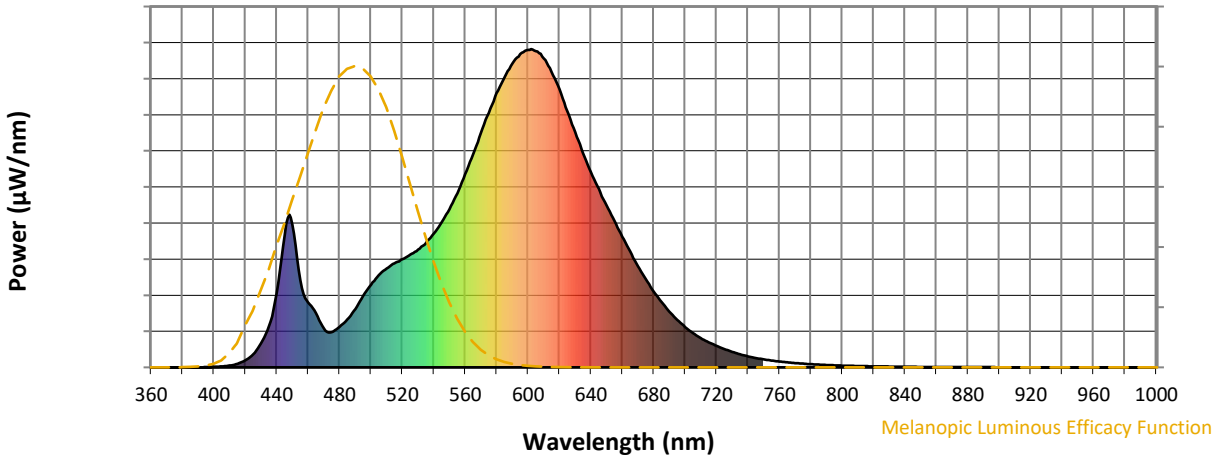


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

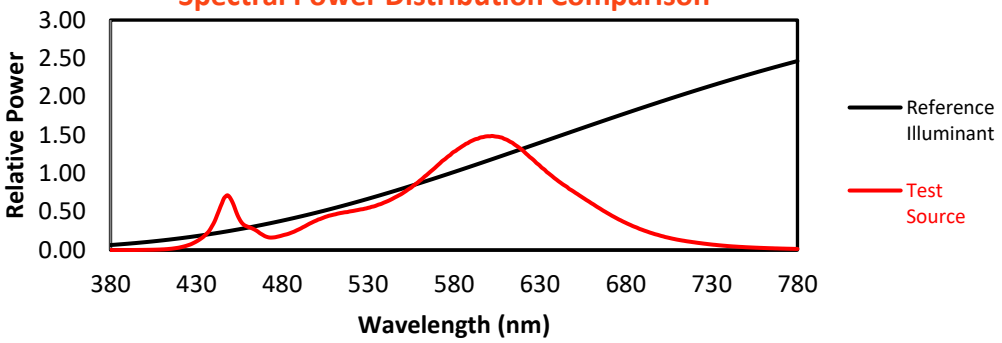
REPORT NUMBER: SP1-2501-332-8

TM-30-18

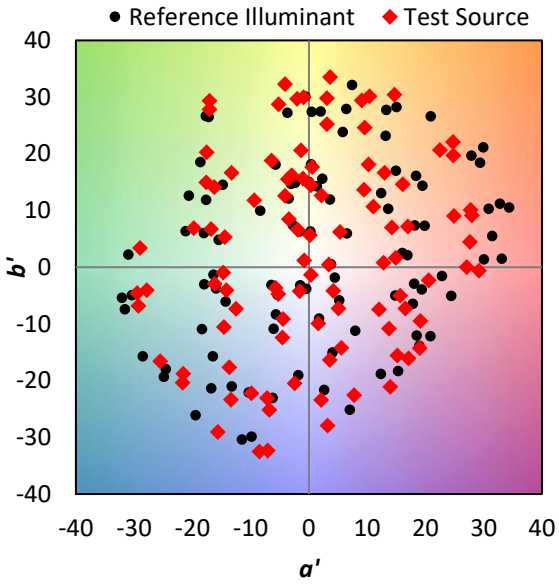
Summary

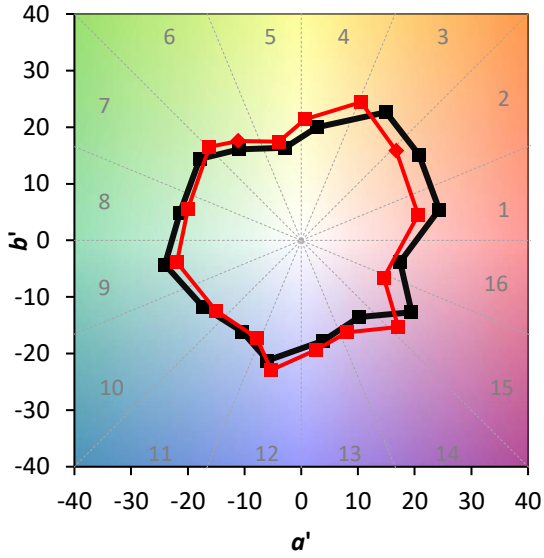
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

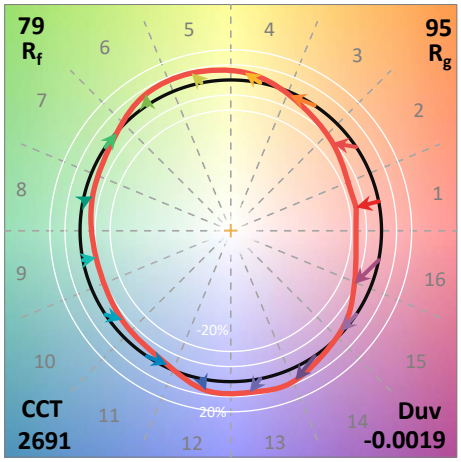
Spectral Power Distribution Comparison

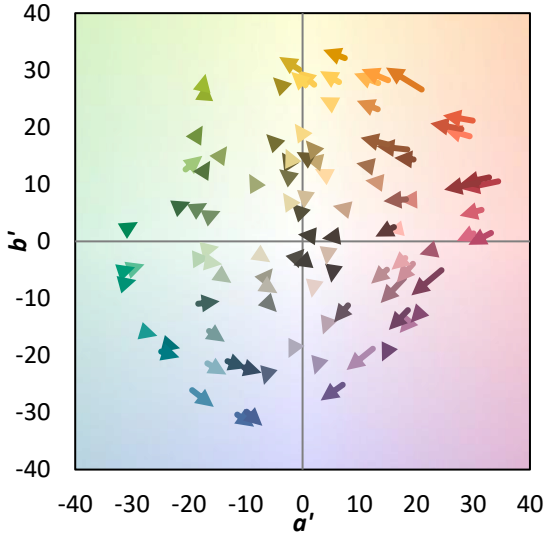


Color Vector Graphics







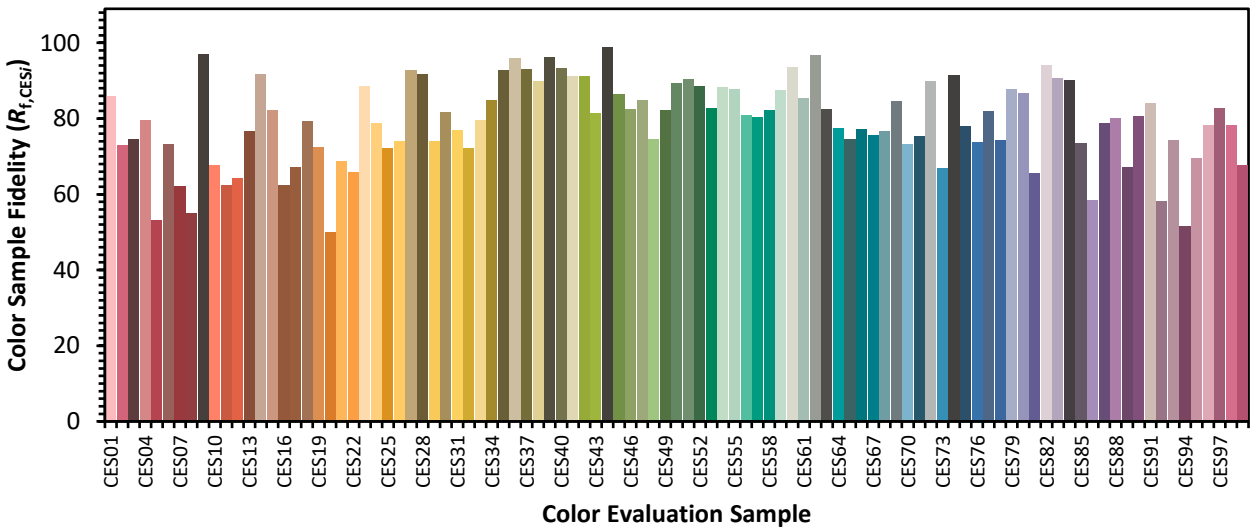


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

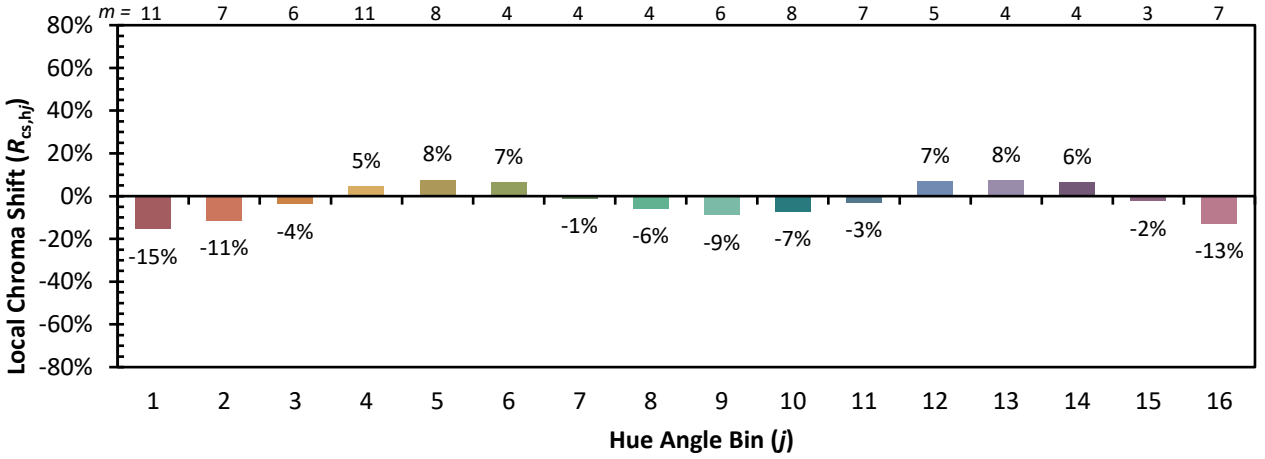
CES01 = 87	CES26 = 74	CES51 = 90	CES76 = 74
CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

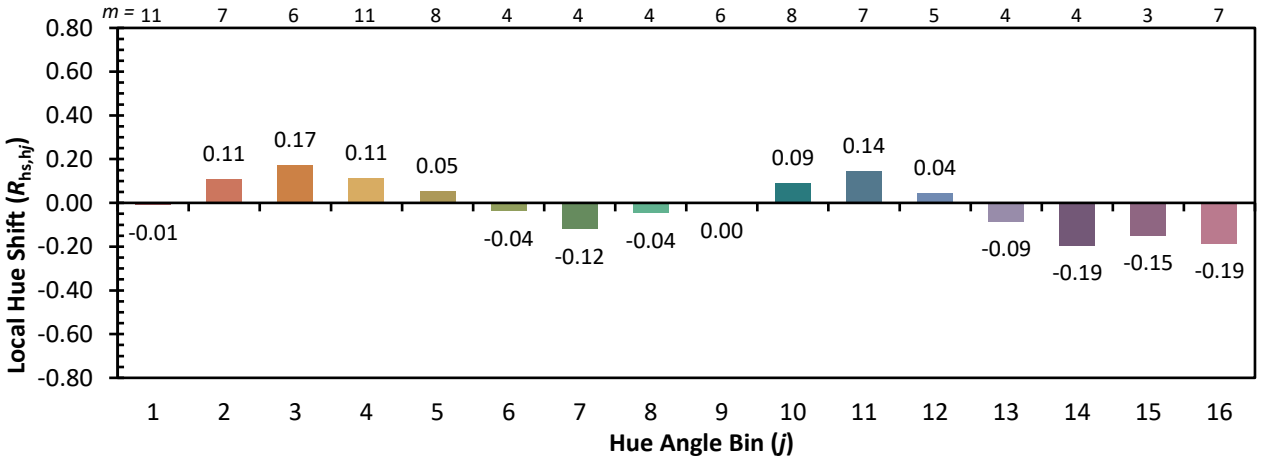


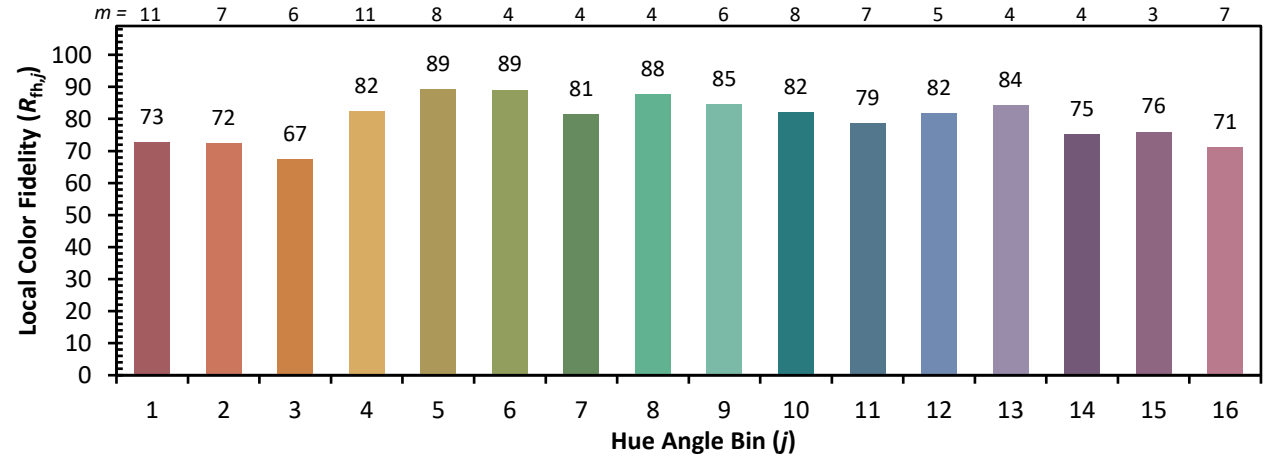
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



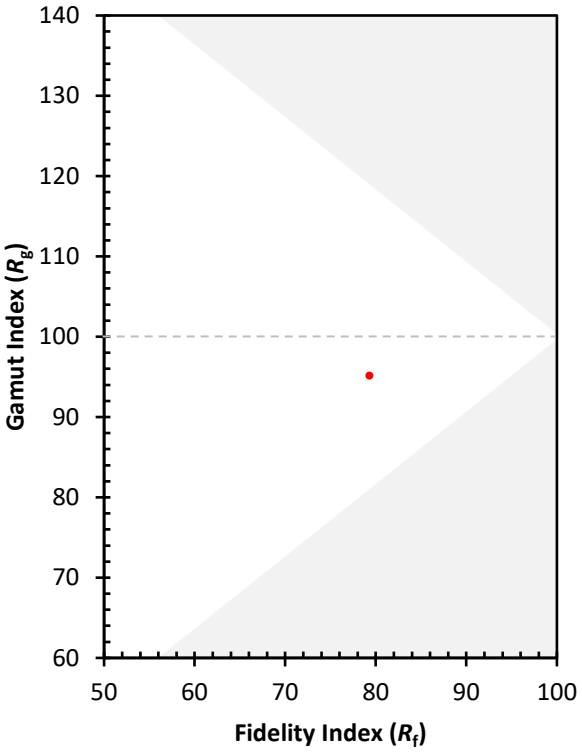


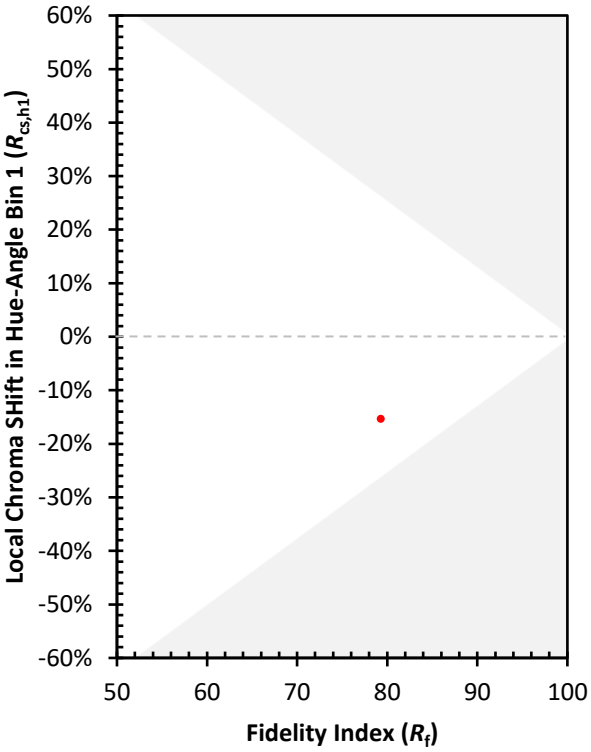


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)