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: P1045782

Luminaire Tested: **FFX-CLB-50-722-U-FR-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045782
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4474.3 lumens
Efficiency:	N/A
Efficacy:	88.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U4 - G2

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

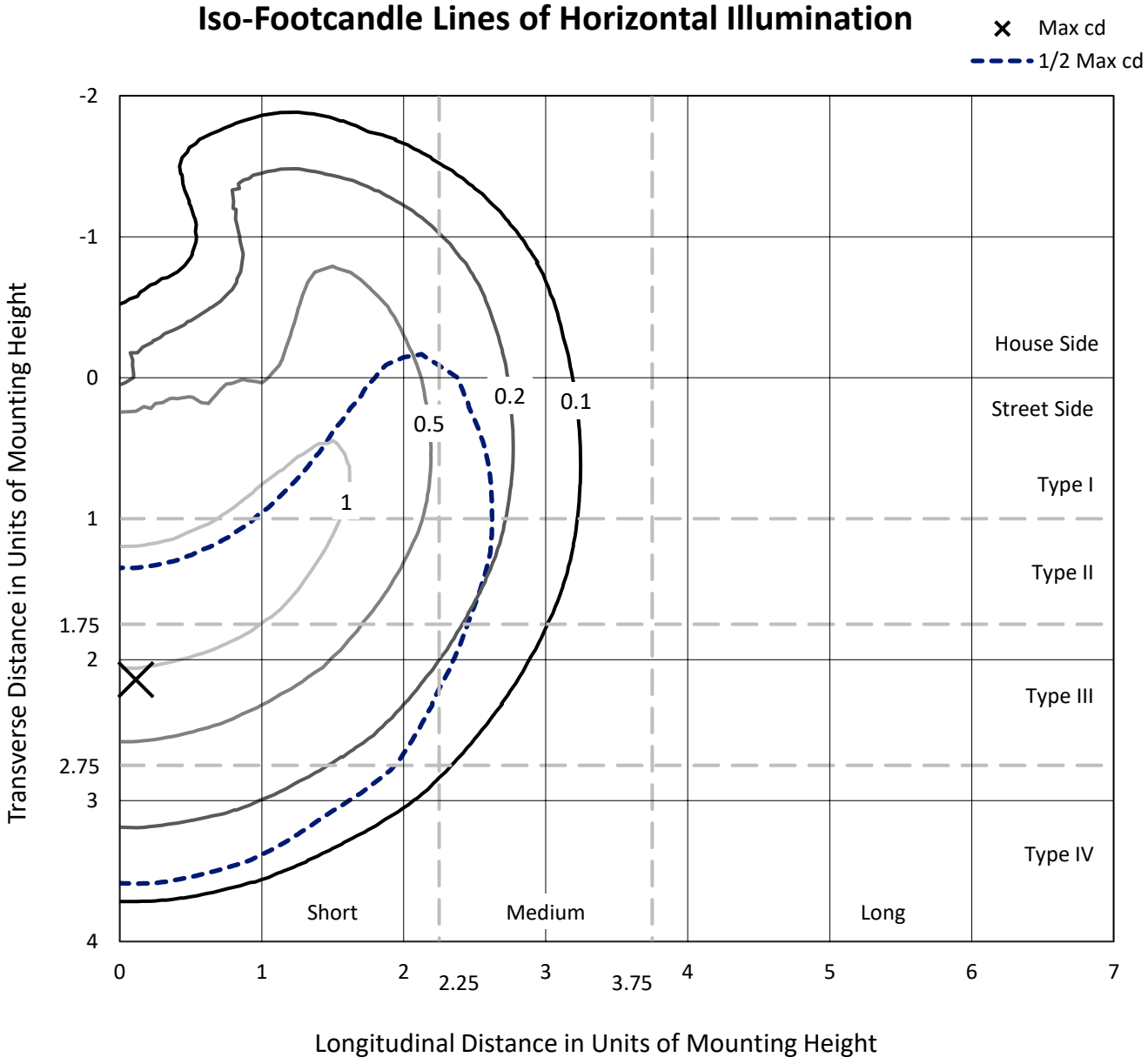


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

Iso-Footcandle Lines of Horizontal Illumination



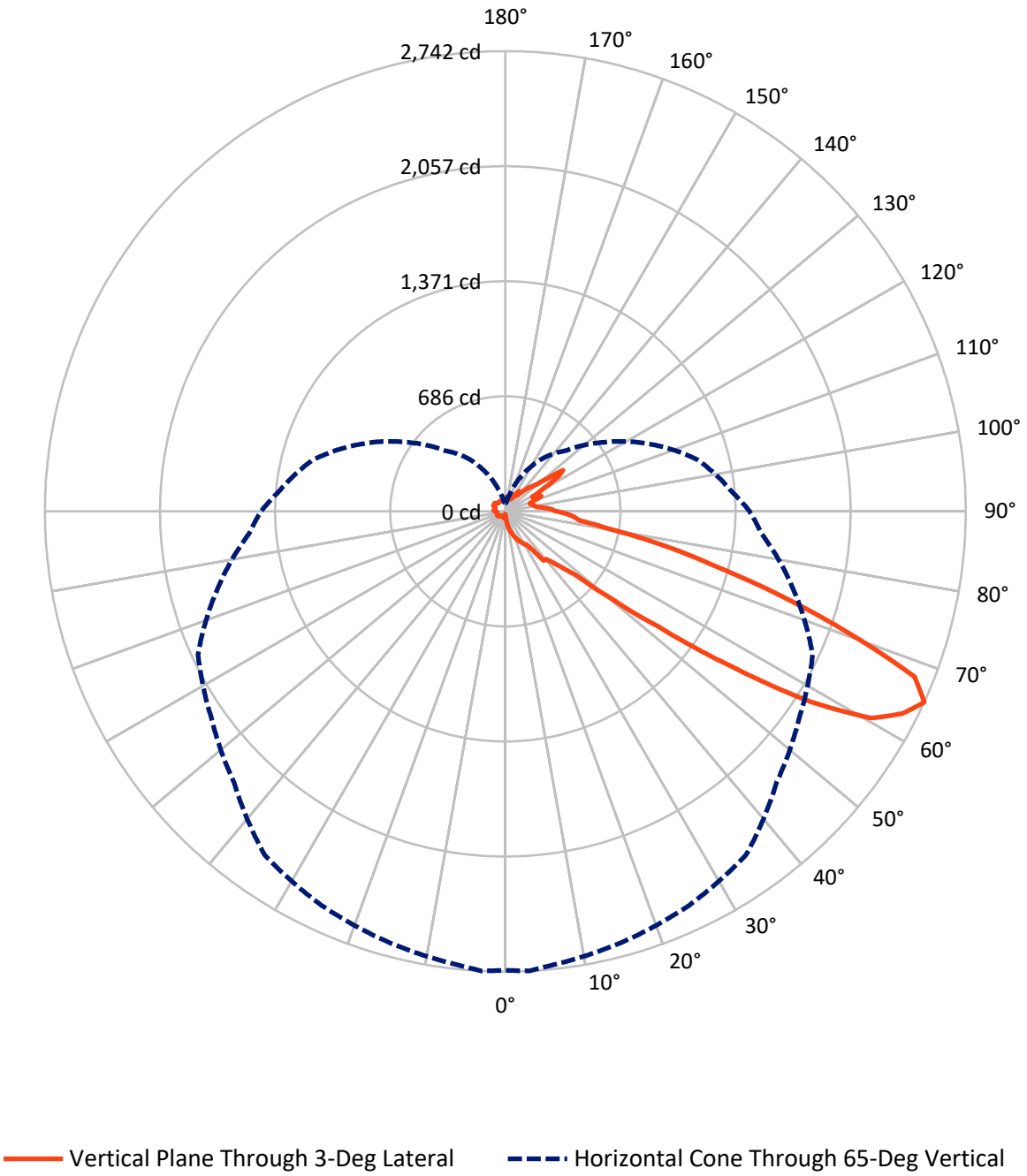
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

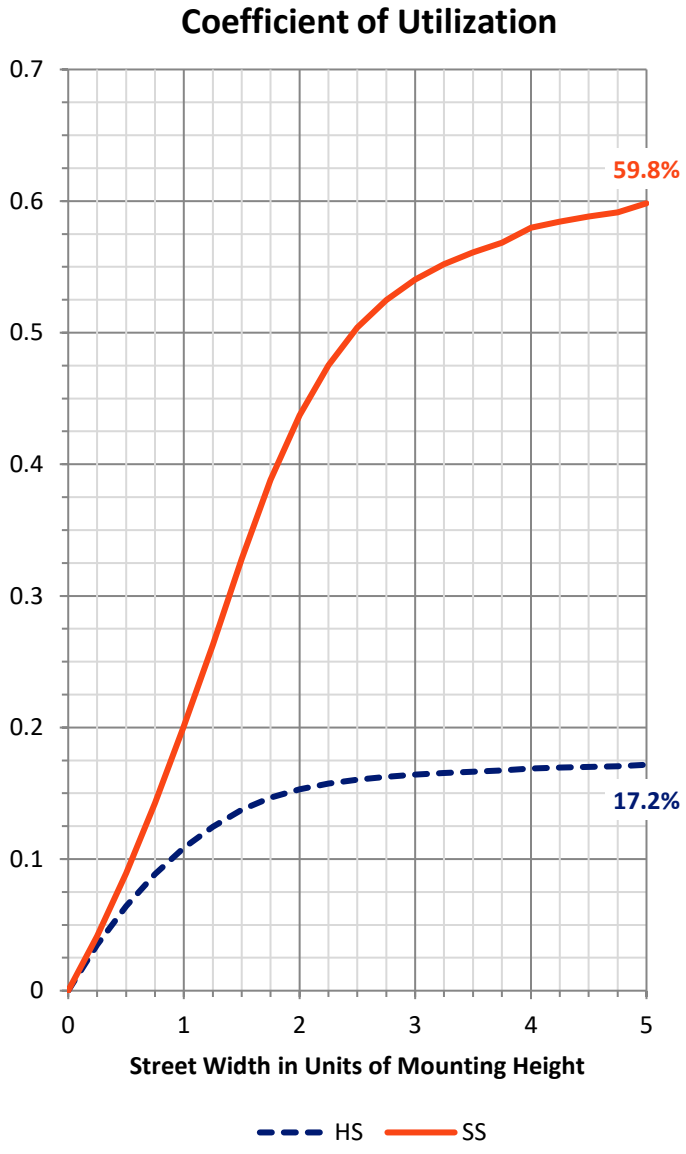
REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	797.7	310.5	1108.2
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	2788.3	577.8	3366.2
	% Fixture	62.3	12.9	75.2
Total	Lumens	3586.0	888.4	4474.3
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	25.3	0.6
20°-30°	55.8	1.2
30°-40°	111.4	2.5
40°-50°	240.5	5.4
50°-60°	822.3	18.4
60°-70°	1336.2	29.9
70°-80°	719.0	16.1
80°-90°	270.9	6.1
90°-100°	170.9	3.8
100°-110°	121.5	2.7
110°-120°	134.1	3.0
120°-130°	204.8	4.6
130°-140°	122.9	2.7
140°-150°	67.9	1.5
150°-160°	37.8	0.8
160°-170°	20.9	0.5
170°-180°	7.7	0.2
0°-90°	3586.0	80.1
0°-180°	4474.3	100.0



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

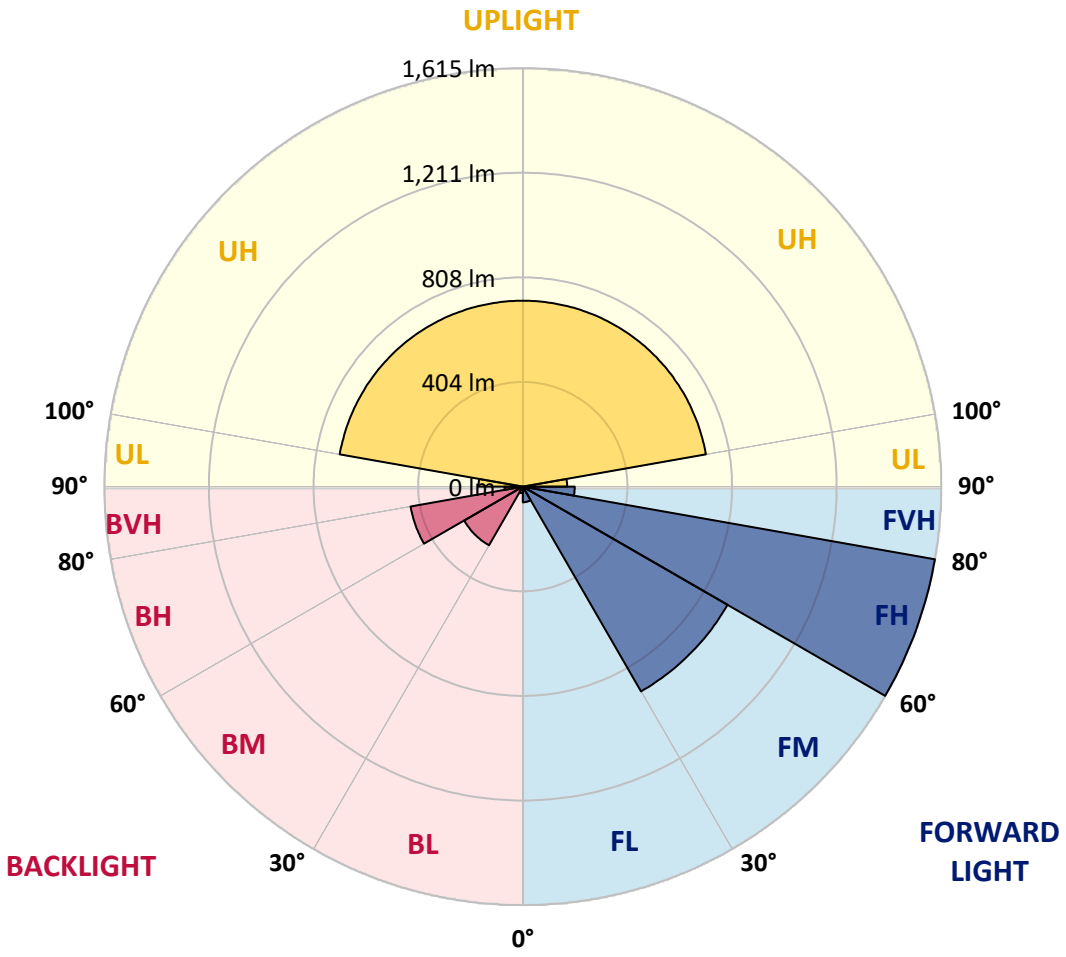
Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	60.3	1.3			
FM	(30°-60°)	912.6	20.4			
FH	(60°-80°)	1615.2	36.1			G1/1800
FVH	(80°-90°)	200.2	4.5			G2/225
BL	(0°-30°)	25.5	0.6	B0/110		
BM	(30°-60°)	261.5	5.8	B1/1000		
BH	(60°-80°)	439.9	9.8	B1/500		G1/500
BVH	(80°-90°)	70.7	1.6			G1/100
UL	(90°-100°)	170.9	3.8		U3/500	
UH	(100°-180°)	717.4	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	35.6	36.1	36.1	36.1	37.1	37.6	37.1	35.6	33.6	32.6	31.6
5°	51.6	52.6	52.1	52.1	51.1	51.1	49.6	48.6	47.6	44.1	40.6
7.5°	71.7	70.7	70.2	69.2	69.7	67.2	65.2	65.2	63.7	60.1	54.6
10°	92.7	92.7	91.2	90.7	89.7	88.7	85.2	83.2	83.2	77.2	70.7
12.5°	115.8	115.3	115.8	114.8	113.3	110.8	106.8	102.2	99.7	94.2	84.7
15°	130.8	130.3	130.3	129.8	128.8	126.3	123.3	118.8	112.3	106.8	97.7
17.5°	146.9	145.9	145.9	143.3	141.3	138.3	135.8	131.3	123.3	113.3	104.8
20°	164.4	164.4	164.4	160.9	156.9	152.9	149.4	145.3	139.3	124.3	112.3
22.5°	180.9	181.4	180.9	177.4	173.9	167.4	161.9	156.9	150.9	135.8	121.3
25°	197.0	198.0	197.5	197.5	193.0	184.4	176.9	169.4	165.4	150.4	130.3
27.5°	211.0	211.5	212.0	214.5	212.0	202.5	190.5	181.4	178.4	161.9	137.8
30°	224.5	226.0	226.0	228.5	228.0	217.5	203.0	193.0	186.9	170.9	145.3
32.5°	237.6	238.6	239.1	245.1	244.6	230.6	218.0	207.0	197.0	184.9	158.4
35°	284.7	283.2	290.7	295.2	291.7	279.2	264.1	243.6	229.6	215.5	186.9
37.5°	372.4	371.4	371.4	361.4	347.3	332.8	328.8	307.2	290.2	272.2	233.1
40°	374.9	374.9	376.4	387.4	394.4	375.9	358.4	337.3	333.8	315.3	267.6
42.5°	411.5	415.5	419.5	427.0	439.6	427.5	407.5	373.9	357.9	338.8	298.2
45°	473.6	479.7	477.6	480.7	477.6	467.1	465.6	447.1	423.0	386.4	331.8
47.5°	576.4	572.9	570.9	582.9	602.4	582.9	578.4	548.8	502.7	456.1	393.9
50°	829.0	814.0	829.5	827.0	823.5	805.4	791.9	762.3	687.2	611.5	521.8
52.5°	1167.3	1142.7	1156.8	1166.3	1156.3	1130.7	1090.1	1032.5	931.2	833.5	715.2
55°	1659.0	1624.9	1629.4	1641.4	1648.5	1590.3	1532.2	1404.9	1253.0	1102.1	973.8
57.5°	2201.8	2140.6	2180.7	2113.6	2086.0	1982.3	1933.1	1804.3	1625.9	1424.4	1217.4
60°	2507.5	2501.0	2493.5	2441.4	2412.3	2296.0	2180.7	2060.0	1900.1	1662.0	1419.9
62.5°	2640.3	2654.4	2643.4	2616.3	2590.2	2488.0	2287.5	2144.2	2014.3	1769.8	1528.2
65°	2734.1	2742.1	2723.5	2660.9	2590.2	2499.0	2285.0	2138.6	2019.9	1773.3	1532.7
67.5°	2626.8	2628.3	2605.8	2524.6	2381.2	2301.0	2093.5	1965.7	1849.4	1638.9	1413.9
70°	2163.7	2168.2	2154.2	2082.0	1961.7	1892.0	1692.1	1560.8	1473.0	1327.7	1161.8
72.5°	1686.6	1706.1	1686.1	1657.5	1543.2	1491.6	1357.3	1251.0	1170.3	1033.5	899.7
75°	1268.0	1272.6	1273.1	1241.0	1180.8	1169.3	1077.1	1006.9	936.8	824.5	726.2
77.5°	919.7	939.8	932.7	927.2	848.5	853.1	816.5	774.9	730.8	656.1	585.9
80°	610.5	621.0	608.5	611.5	600.9	598.4	564.4	536.3	509.2	474.6	447.1
82.5°	445.1	443.1	442.1	436.5	428.5	430.0	413.0	378.4	345.8	338.8	313.3
85°	411.5	410.0	408.5	398.5	381.4	370.9	361.4	347.3	327.3	295.7	262.6
87.5°	359.9	360.4	356.9	346.3	335.3	332.3	324.8	315.8	305.7	282.2	253.1
90°	296.2	294.7	295.2	289.2	291.2	290.2	278.7	267.6	263.6	243.6	226.5
92.5°	273.7	272.2	272.7	268.1	261.1	259.6	247.1	233.6	227.5	215.0	202.0
95°	228.5	228.5	226.5	224.5	221.0	216.0	209.5	200.5	196.0	185.9	172.9
97.5°	192.0	190.0	191.5	188.0	184.9	182.9	177.9	168.9	164.4	156.9	146.9
100°	178.4	178.4	177.9	176.4	168.9	164.9	159.4	150.9	147.4	140.8	133.3
102.5°	170.9	170.4	169.9	168.4	161.4	154.4	147.4	142.3	138.3	132.8	124.8
105°	156.4	156.4	157.4	156.9	151.9	147.4	139.8	135.3	131.3	125.8	118.3
107.5°	154.9	154.4	154.4	148.4	141.8	139.3	133.8	129.8	126.3	120.8	112.3
110°	177.4	178.4	179.9	169.9	154.4	147.9	139.8	135.3	131.3	124.3	115.3

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

Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	232.6	*232.6*	231.6	226.0	199.0	180.9	176.9	165.4	158.9	148.4	135.8
115°	209.0	*209.5*	209.0	210.5	208.5	185.9	190.0	170.9	181.9	157.4	148.9
117.5°	182.4	*181.9*	179.9	180.4	182.4	197.0	165.4	160.9	165.4	143.3	135.8
120°	254.6	*250.1*	254.6	236.1	233.1	235.6	217.5	214.0	195.0	168.4	148.4
122.5°	374.9	*367.9*	377.9	371.4	376.4	359.9	342.3	327.8	306.7	262.1	222.0
125°	423.5	*422.0*	419.5	410.5	402.5	395.5	398.5	404.0	392.4	356.4	309.7
127.5°	311.7	*315.8*	314.3	332.3	349.8	345.8	335.3	340.3	346.3	344.3	316.8
130°	248.6	*252.1*	254.1	271.7	286.7	286.7	269.6	265.1	270.1	280.7	270.1
132.5°	218.0	*219.0*	220.0	226.0	238.6	244.6	234.1	227.0	229.1	234.6	225.5
135°	196.5	*196.0*	194.5	190.5	191.5	197.5	202.0	201.0	199.5	199.5	194.5
137.5°	170.4	*169.9*	169.9	163.9	161.4	166.4	172.9	178.9	174.9	169.4	163.4
140°	141.8	*141.3*	141.8	145.3	146.4	146.9	150.4	150.4	150.4	149.9	147.4
142.5°	117.8	*118.3*	119.3	128.3	132.8	132.8	128.3	124.3	123.8	126.8	127.3
145°	144.8	*144.8*	145.3	144.8	141.8	138.8	135.8	135.8	132.8	125.8	122.3
147.5°	129.3	*131.3*	129.8	131.3	132.3	132.8	132.3	133.8	134.3	130.3	124.8
150°	101.7	*101.2*	100.2	101.7	104.3	107.3	108.3	109.3	109.8	109.8	109.8
152.5°	88.2	*88.7*	88.2	89.7	91.2	91.7	93.2	93.2	93.7	93.2	92.2
155°	85.7	*85.7*	85.7	85.7	86.2	87.2	89.2	90.2	89.2	87.7	85.2
157.5°	79.7	*79.7*	79.7	80.2	81.2	82.2	83.7	84.7	84.7	83.7	81.7
160°	76.2	*76.2*	76.2	76.2	77.2	78.2	79.2	80.2	80.2	79.7	78.2
162.5°	72.2	*72.2*	72.2	72.7	73.7	74.7	75.7	76.7	76.2	76.2	75.2
165°	71.7	*71.7*	71.7	72.2	73.2	74.7	75.2	75.2	75.7	75.7	75.7
167.5°	73.7	*73.7*	74.2	74.2	75.2	75.7	76.7	77.2	77.7	77.2	77.2
170°	76.7	*76.7*	76.7	77.2	77.7	77.7	78.2	78.2	78.7	78.7	78.7
172.5°	80.7	*80.7*	80.7	80.7	80.2	80.2	80.2	80.2	80.7	80.2	80.7
175°	85.2	*85.2*	85.2	84.7	84.2	84.2	83.7	83.7	83.2	82.7	82.7
177.5°	85.7	*85.7*	85.7	85.7	85.2	84.7	84.7	84.2	83.7	83.7	83.7
180°	83.7	*83.7*	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7

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

Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	30.6	29.6	27.1	25.1	23.6	21.6	20.0	18.5	17.5	17.0	16.5
5°	40.1	38.1	35.1	32.1	29.6	26.1	24.1	20.5	18.0	17.0	16.5
7.5°	52.6	51.1	49.6	49.1	48.1	43.6	37.1	32.1	31.1	30.1	31.1
10°	67.2	64.2	59.6	62.1	62.1	53.6	44.6	39.6	39.1	41.1	41.6
12.5°	80.7	76.7	71.2	70.7	65.2	53.6	44.1	39.1	38.6	39.1	39.6
15°	93.2	88.7	82.7	77.7	69.2	57.1	46.1	39.6	38.1	39.6	39.6
17.5°	100.2	95.7	87.2	77.7	67.7	56.6	45.6	38.6	35.1	33.1	33.1
20°	108.8	105.3	93.7	81.7	68.2	56.1	45.1	37.6	33.6	31.6	31.1
22.5°	116.3	112.3	99.7	86.7	71.2	56.1	43.6	37.1	33.6	31.6	31.1
25°	125.3	119.3	106.8	92.2	73.7	56.1	43.6	37.6	34.1	32.1	31.6
27.5°	131.3	124.3	112.3	96.2	76.7	57.1	45.1	38.1	34.1	32.1	32.1
30°	137.3	130.8	116.8	101.7	80.2	59.6	47.6	40.1	35.6	33.1	33.1
32.5°	149.4	140.8	123.8	106.3	83.2	61.6	50.1	42.1	37.1	34.6	34.6
35°	176.4	164.4	143.8	119.3	87.2	63.7	52.6	44.6	38.1	35.1	35.1
37.5°	217.5	202.5	177.4	143.8	97.2	66.7	54.6	45.6	39.1	36.6	36.1
40°	244.6	226.0	196.0	163.4	111.8	71.7	57.1	47.1	40.1	37.1	36.6
42.5°	277.2	254.6	214.5	169.4	119.3	82.2	62.1	49.6	41.6	37.6	37.1
45°	306.7	287.7	250.1	198.0	140.8	97.7	71.2	54.1	44.1	39.1	38.6
47.5°	366.9	337.3	287.2	233.6	167.9	121.3	86.7	61.1	48.1	41.1	40.1
50°	484.2	453.6	392.9	309.7	217.0	154.4	111.8	74.2	53.1	43.1	41.6
52.5°	657.6	601.4	533.8	421.5	307.7	223.0	158.4	104.8	63.2	45.1	42.6
55°	889.6	857.6	737.8	594.9	438.6	333.8	243.6	162.9	94.2	47.6	43.1
57.5°	1155.8	1092.1	982.9	804.9	586.4	425.0	329.3	242.6	138.8	55.6	45.6
60°	1327.2	1261.0	1135.7	955.8	713.7	506.7	375.4	270.1	157.4	57.1	47.6
62.5°	1438.0	1345.2	1186.4	975.8	750.8	540.3	396.5	256.6	134.3	55.6	49.1
65°	*1455.0*	*1354.3*	*1186.4*	*948.3*	*717.2*	*512.7*	*383.4*	*237.1*	*105.8*	*53.1*	*51.1*
67.5°	1354.3	1245.0	1105.7	869.6	643.5	439.6	329.3	193.5	80.2	51.6	50.6
70°	1096.6	1028.0	901.2	708.7	513.7	359.9	262.1	148.4	65.2	50.1	49.6
72.5°	838.0	788.4	699.7	552.3	396.0	277.7	200.0	116.8	58.6	49.1	48.6
75°	667.1	622.0	549.8	425.5	302.2	214.0	149.4	89.7	53.6	49.1	48.1
77.5°	550.3	510.7	445.6	337.3	220.5	159.9	113.3	72.7	52.6	49.1	48.6
80°	423.5	394.9	346.3	245.1	157.9	119.8	90.2	64.7	52.6	50.1	49.6
82.5°	300.2	289.2	252.6	191.0	132.8	104.3	83.2	63.7	53.6	51.1	50.6
85°	249.6	236.6	210.5	166.4	123.8	100.7	82.2	65.2	56.1	54.1	53.6
87.5°	240.6	232.1	206.5	160.9	118.8	96.2	78.7	63.7	56.1	55.1	55.6
90°	217.5	208.0	188.5	149.9	113.8	95.7	80.2	66.2	58.1	57.1	56.6
92.5°	197.5	192.0	174.9	144.8	117.3	99.2	84.7	72.2	65.7	63.7	63.7
95°	168.9	163.4	153.9	132.8	111.8	97.2	84.7	73.7	68.2	67.2	66.7
97.5°	143.8	140.3	132.3	115.8	99.2	87.2	76.2	67.7	63.2	61.6	61.6
100°	131.3	128.3	121.8	110.8	98.2	88.2	79.2	71.7	67.7	66.7	66.7
102.5°	122.3	119.8	113.8	105.8	94.7	86.7	79.2	72.7	68.2	67.2	67.7
105°	114.8	112.3	106.3	98.2	89.2	80.7	75.2	70.2	65.2	63.7	63.7
107.5°	109.3	106.8	101.7	93.7	86.2	78.7	72.7	68.7	64.7	63.7	63.7
110°	111.8	108.3	100.7	92.2	85.7	79.2	74.2	70.2	67.2	65.7	65.7

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

Scaled Data Report

REPORT NUMBER: P1045782
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	130.8	125.3	112.8	100.7	92.2	84.7	79.2	73.7	71.2	69.2	69.2
115°	143.3	137.8	125.3	110.8	98.2	87.7	80.2	75.7	72.7	74.7	73.7
117.5°	130.8	126.8	117.3	106.8	96.7	87.7	81.2	78.2	76.2	78.7	79.7
120°	143.8	136.3	128.8	116.8	98.2	85.7	81.2	80.2	80.2	78.2	78.2
122.5°	205.5	193.0	164.9	144.3	118.8	104.8	96.2	88.2	80.2	77.2	76.7
125°	287.7	264.1	228.5	192.5	157.4	127.8	103.2	88.2	80.7	76.2	75.2
127.5°	302.7	282.2	249.6	206.0	158.4	124.8	102.7	91.2	82.7	77.7	77.2
130°	255.6	245.6	216.5	178.9	142.3	116.3	101.7	91.2	83.2	78.7	77.7
132.5°	217.0	210.0	182.9	152.9	126.8	107.8	94.7	83.2	75.7	71.7	70.7
135°	186.4	181.9	158.4	136.8	117.3	101.7	88.2	77.2	71.2	68.7	68.2
137.5°	159.9	155.4	139.3	124.3	109.3	95.7	84.7	75.2	69.7	68.2	67.7
140°	143.3	139.3	129.3	113.3	98.7	84.7	76.7	70.7	67.7	66.7	66.2
142.5°	124.8	120.3	109.3	97.7	87.7	76.7	71.2	68.7	67.2	66.2	65.7
145°	118.3	115.3	102.7	92.2	82.7	77.2	74.2	70.7	67.7	65.7	65.2
147.5°	119.8	116.3	105.3	95.2	86.7	80.7	75.7	70.7	66.7	64.7	64.2
150°	107.3	106.3	99.7	91.7	83.7	77.2	72.2	68.2	65.7	65.2	65.2
152.5°	89.7	89.2	86.2	81.7	76.2	71.2	67.7	65.7	65.7	66.7	67.2
155°	84.2	82.7	80.7	77.7	73.2	69.7	67.2	66.2	66.7	67.7	67.7
157.5°	81.2	79.7	77.7	75.2	72.7	69.7	67.7	67.2	68.2	69.2	69.2
160°	77.2	76.2	74.7	72.2	70.2	68.7	67.7	67.7	68.2	68.7	68.7
162.5°	74.7	73.7	72.2	70.7	69.7	69.2	68.7	68.2	68.7	69.2	69.2
165°	74.7	74.2	72.2	70.7	70.2	70.2	70.2	70.2	70.2	69.7	69.7
167.5°	76.7	76.2	74.7	73.7	73.2	73.7	73.7	73.2	72.7	71.7	71.7
170°	78.7	78.2	77.7	77.2	76.7	77.2	77.2	77.2	76.7	76.7	76.2
172.5°	80.7	80.2	79.7	79.2	79.2	79.2	79.7	80.2	80.2	80.2	80.2
175°	82.7	82.7	81.7	81.2	81.2	81.2	81.7	81.7	82.2	82.2	82.2
177.5°	83.7	83.7	83.7	83.7	84.2	83.7	83.7	83.2	83.2	83.2	83.2
180°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

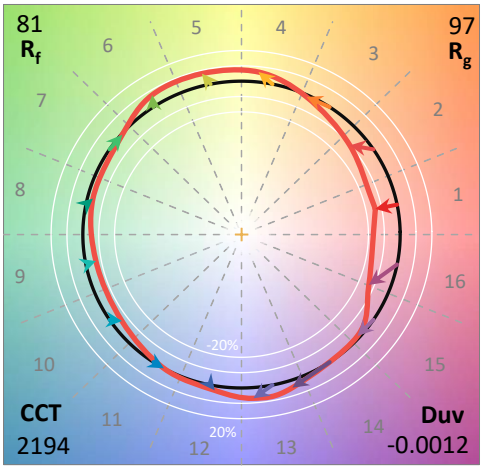
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-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):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

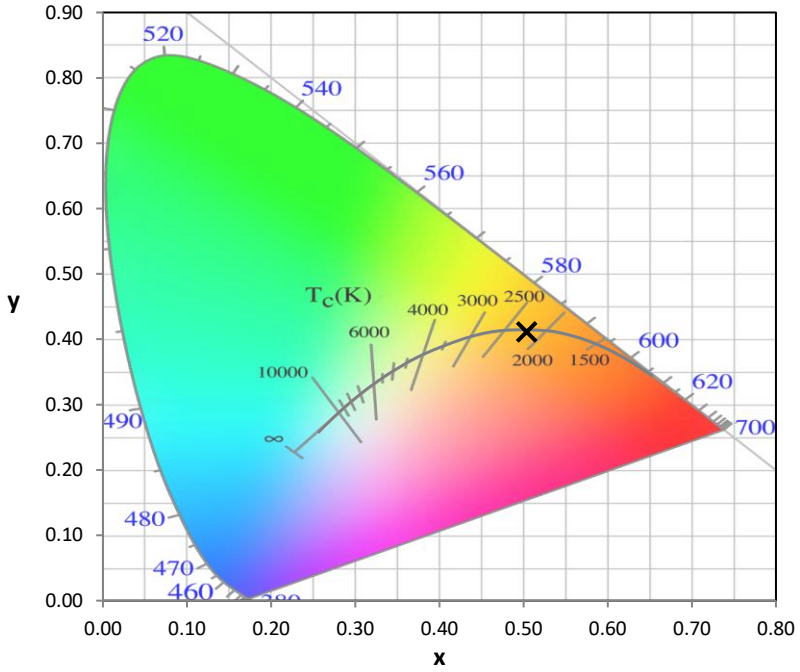
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

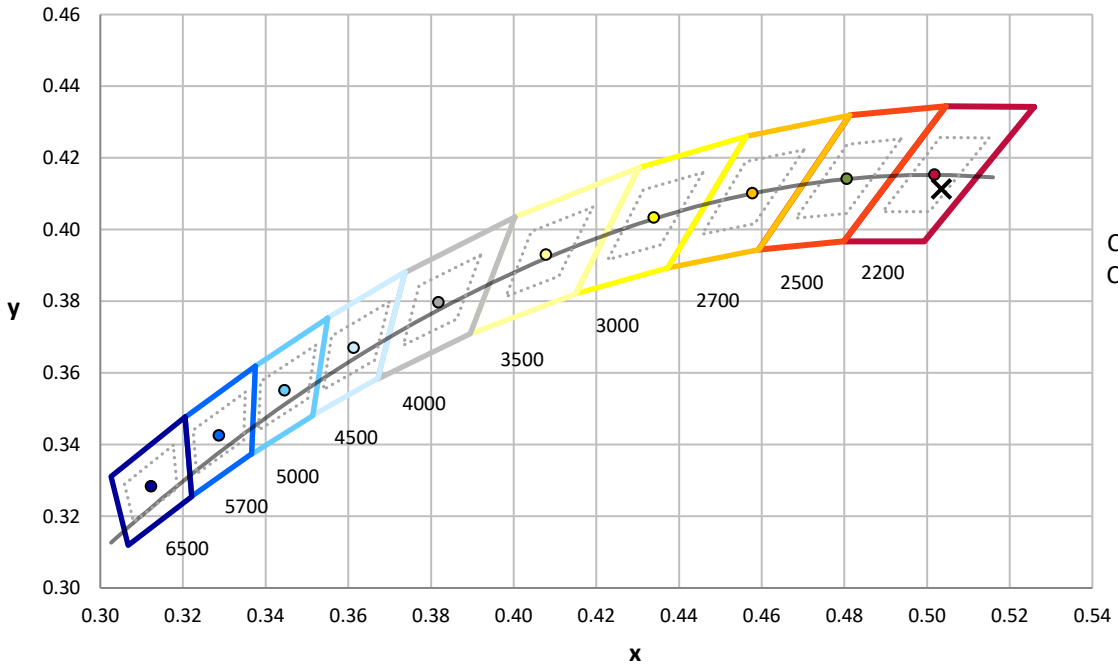
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

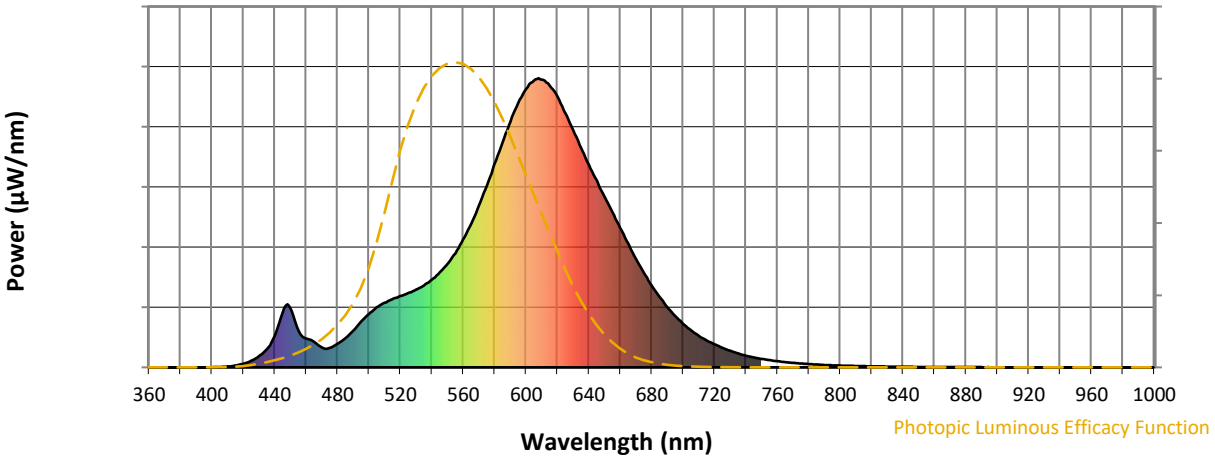


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

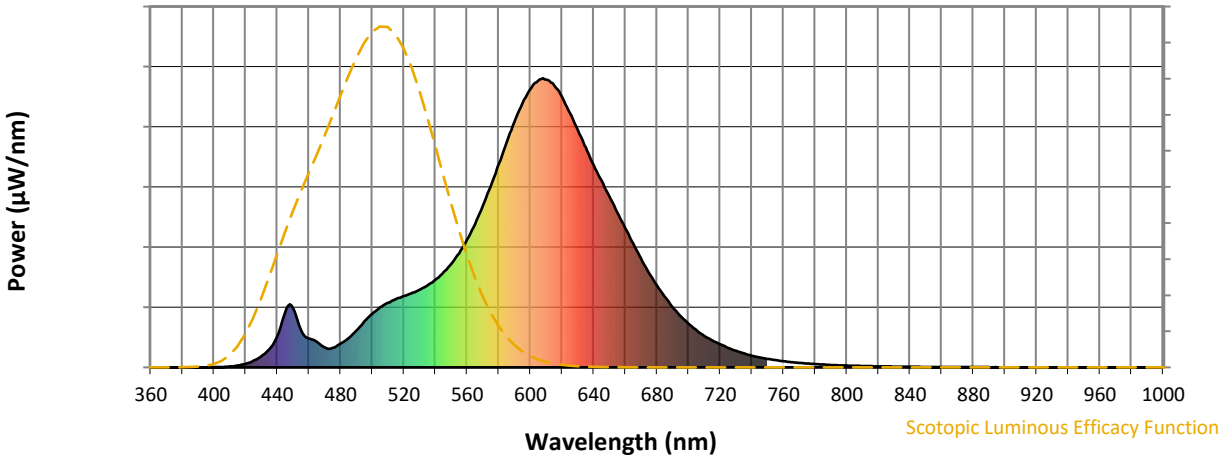


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

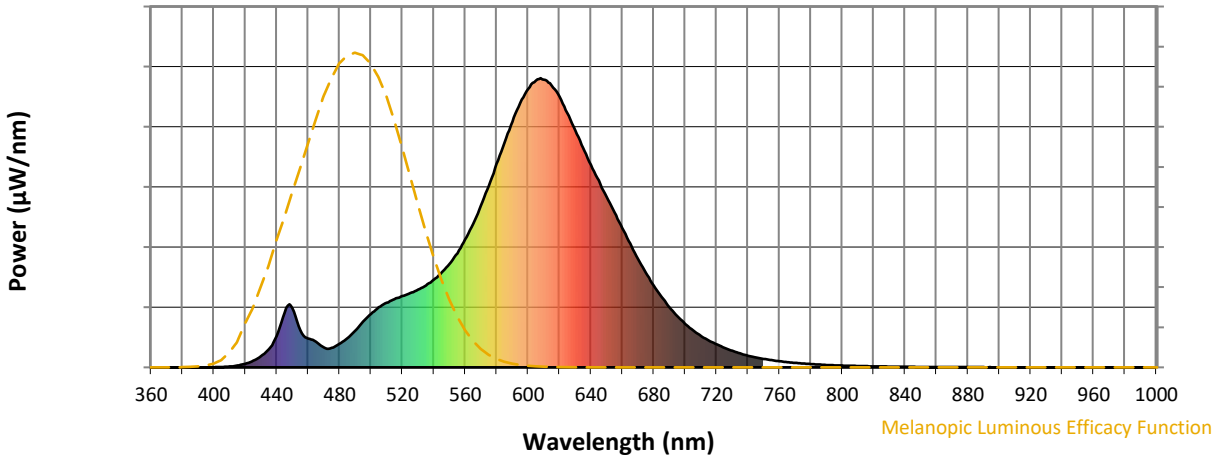


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

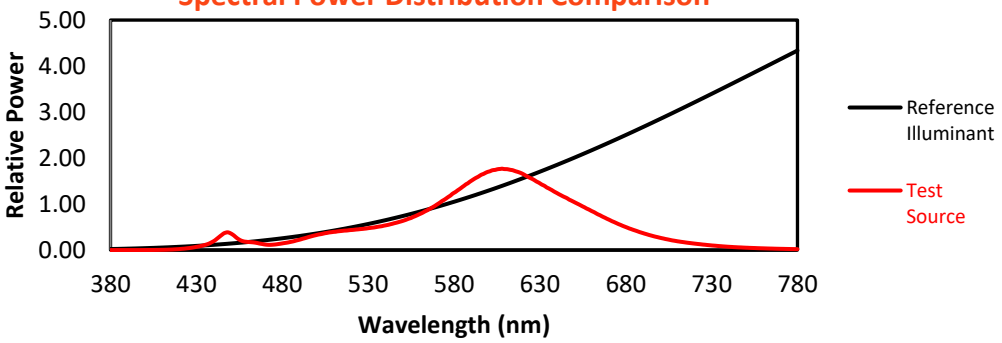
REPORT NUMBER: SP1-2501-332-7

TM-30-18

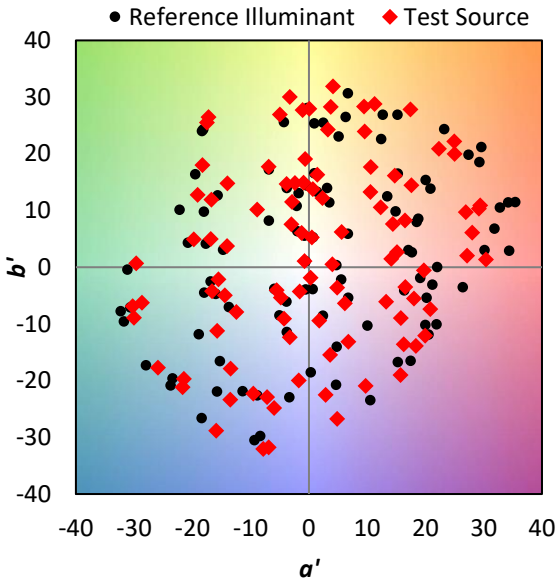
Summary

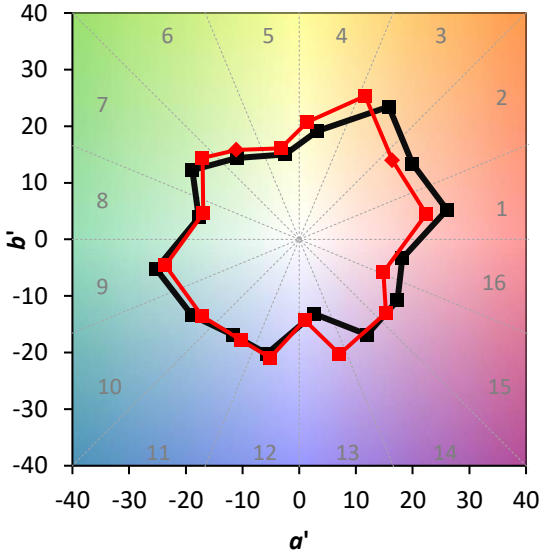
R_f = 81
R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

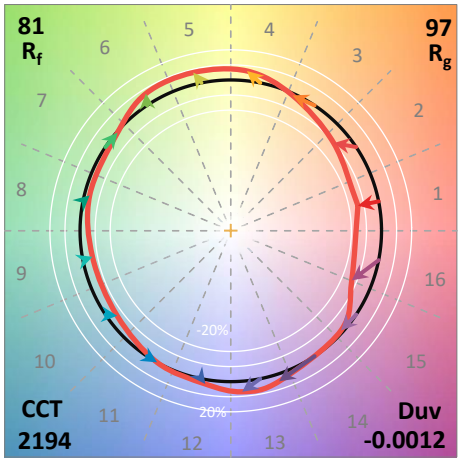
Spectral Power Distribution Comparison

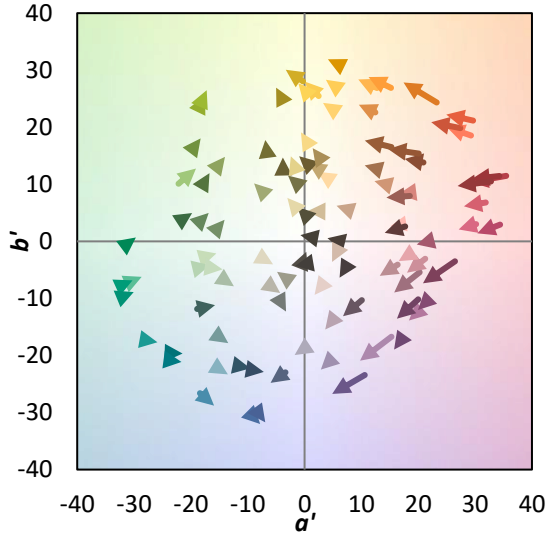


Color Vector Graphics







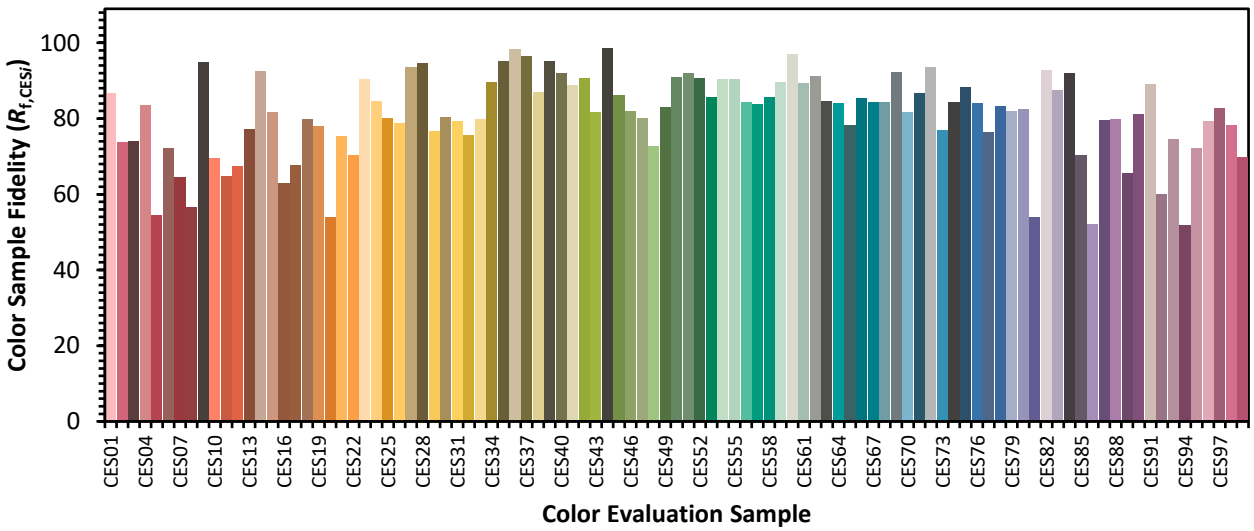


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

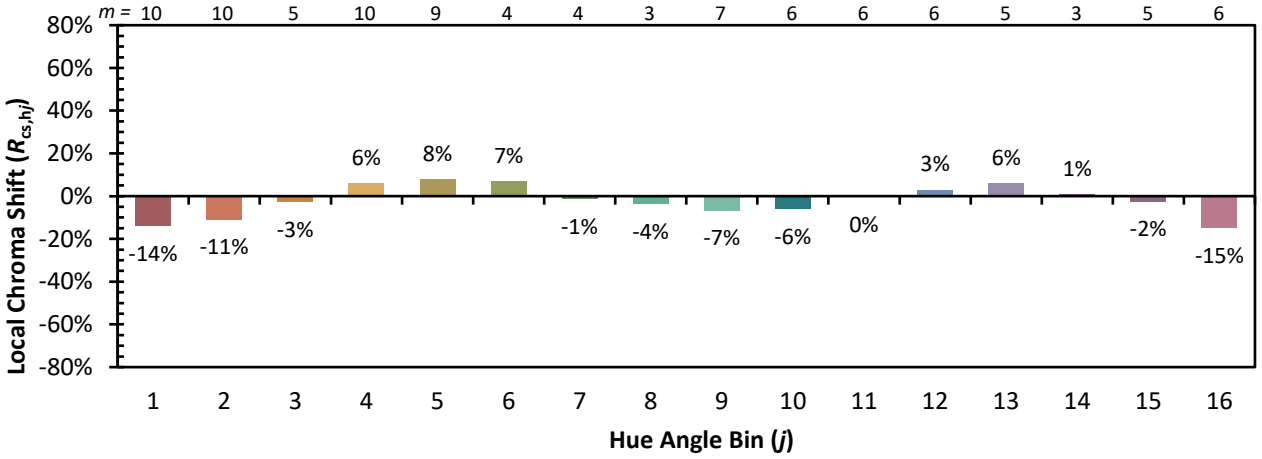
CES01 = 87	CES26 = 79	CES51 = 92	CES76 = 84
CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

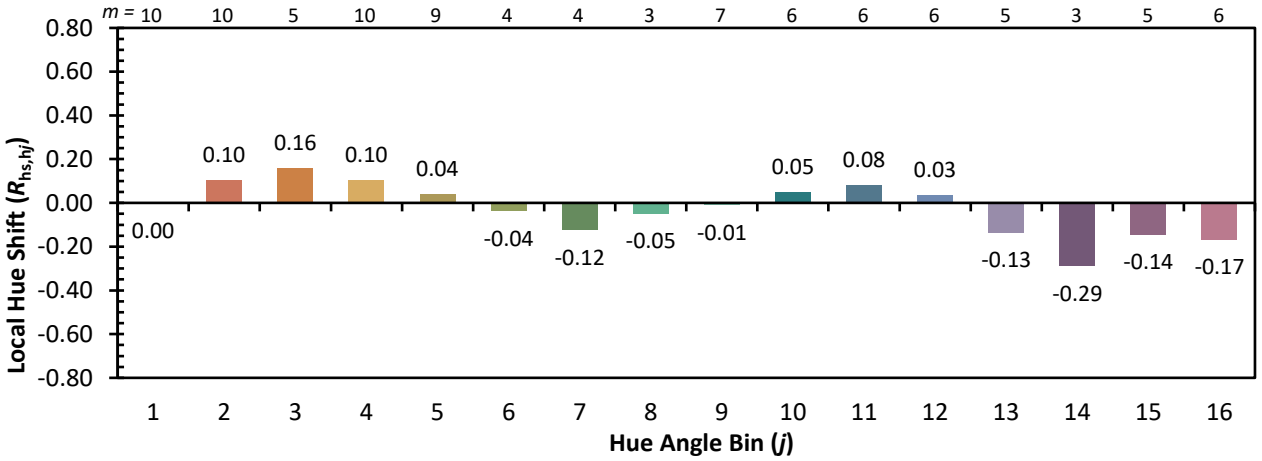


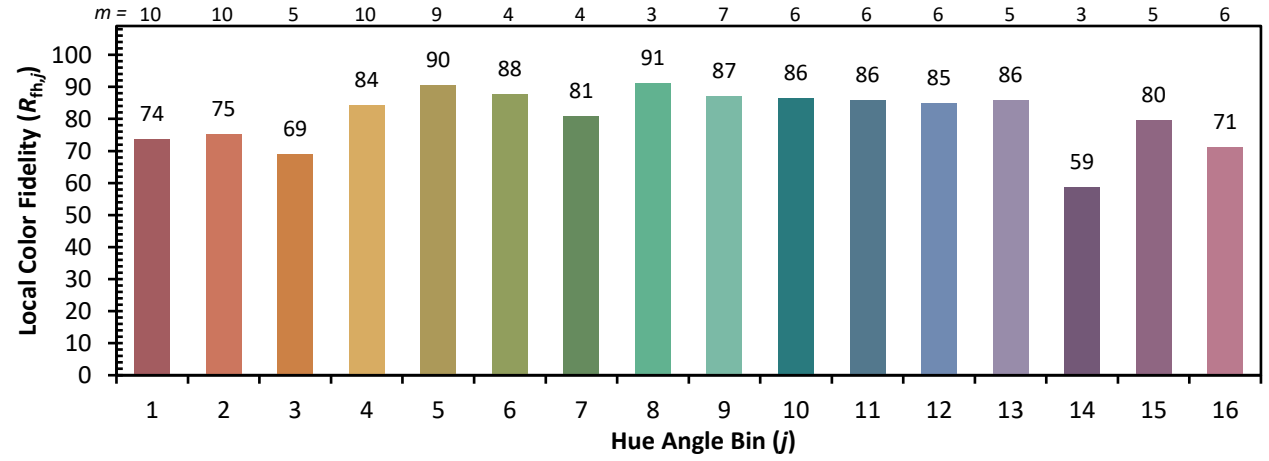
REPORT NUMBER: SP1-2501-332-7

TM-30-18

Color Rendition by Hue-Angle Bin



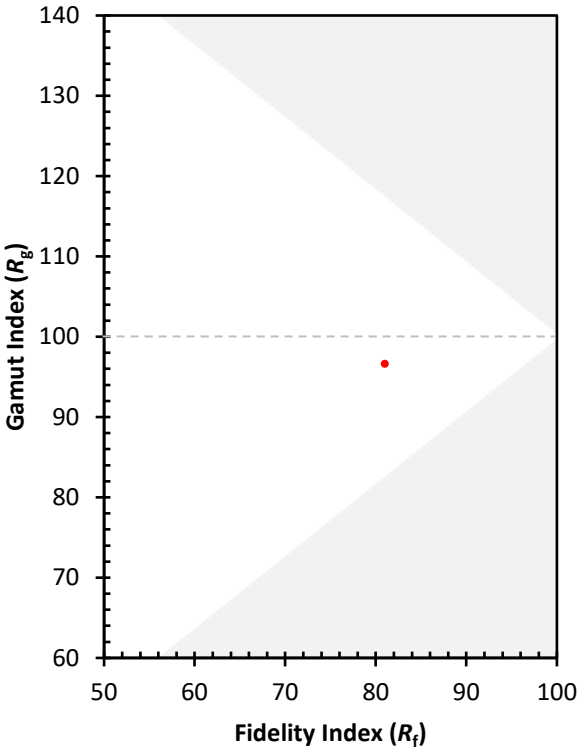


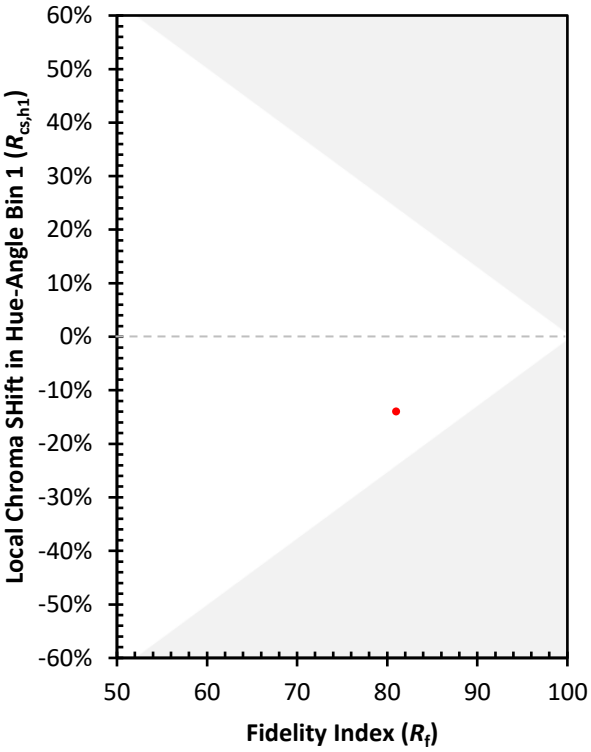


REPORT NUMBER: SP1-2501-332-7

TM-30-18

Measure Comparisons





(END OF REPORT)