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: P1046414

Luminaire Tested: **FFX-CLB-30-722-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:	P1046414
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-FR-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3964.8 lumens
Efficiency:	N/A
Efficacy:	129.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

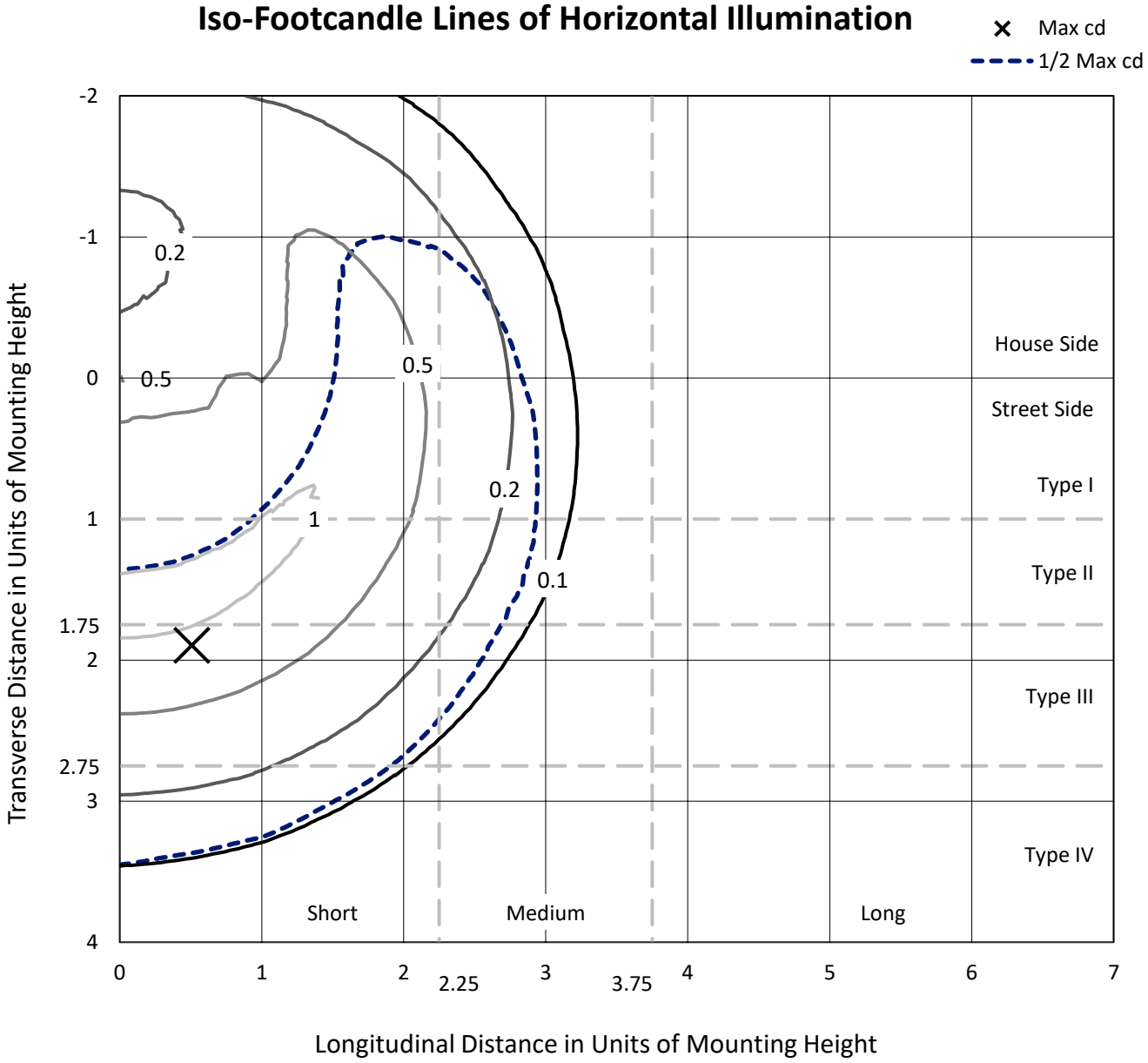


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

Iso-Footcandle Lines of Horizontal Illumination



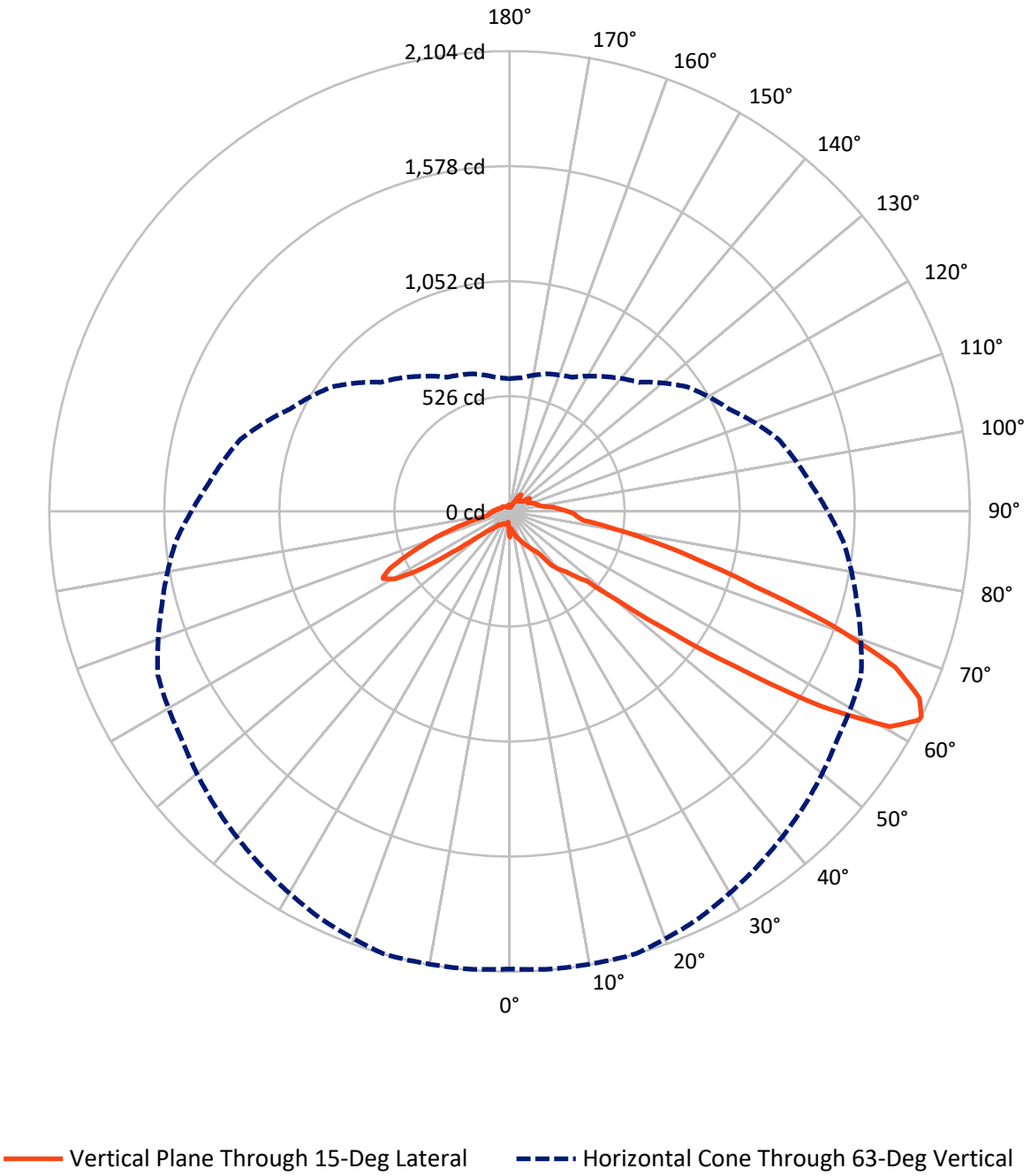
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

Luminous Intensity Polar Plot



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

Scaled Data Report

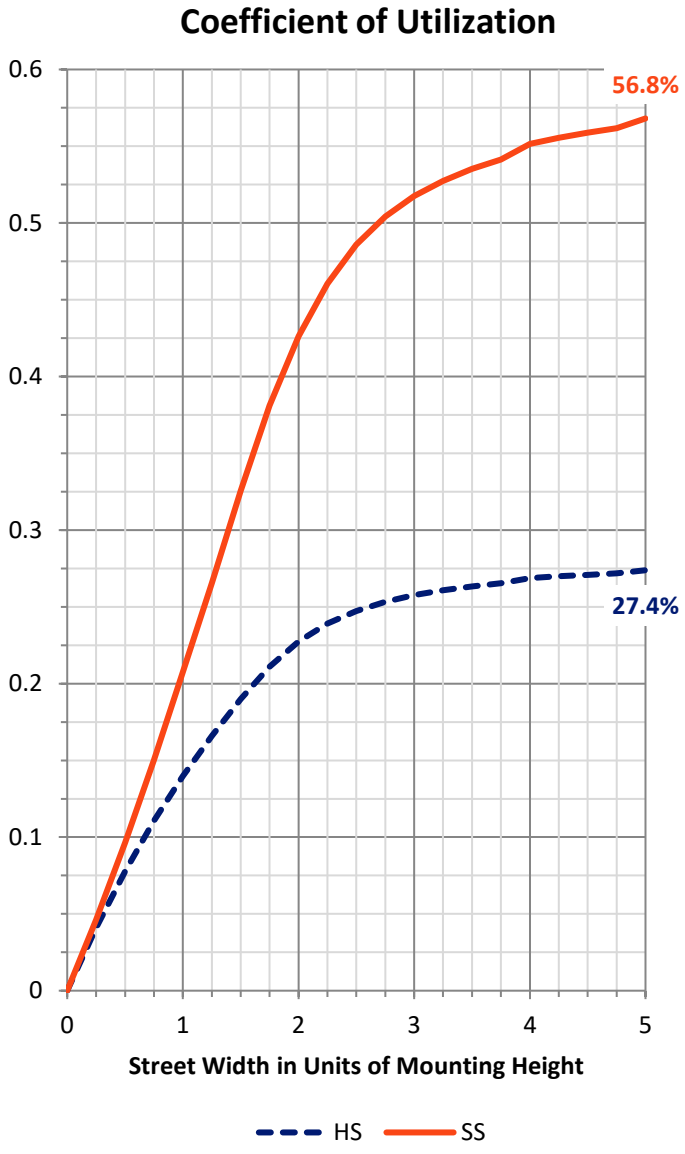
REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.3	182.7	1304.0
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	2347.8	312.9	2660.8
	% Fixture	59.2	7.9	67.1
Total	Lumens	3469.1	495.6	3964.8
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.2
10°-20°	26.0	0.7
20°-30°	56.2	1.4
30°-40°	115.6	2.9
40°-50°	238.4	6.0
50°-60°	784.3	19.8
60°-70°	1298.6	32.8
70°-80°	681.1	17.2
80°-90°	261.6	6.6
90°-100°	158.0	4.0
100°-110°	99.5	2.5
110°-120°	73.7	1.9
120°-130°	62.7	1.6
130°-140°	40.9	1.0
140°-150°	35.6	0.9
150°-160°	16.3	0.4
160°-170°	6.7	0.2
170°-180°	2.3	0.1
0°-90°	3469.1	87.5
0°-180°	3964.8	100.0



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

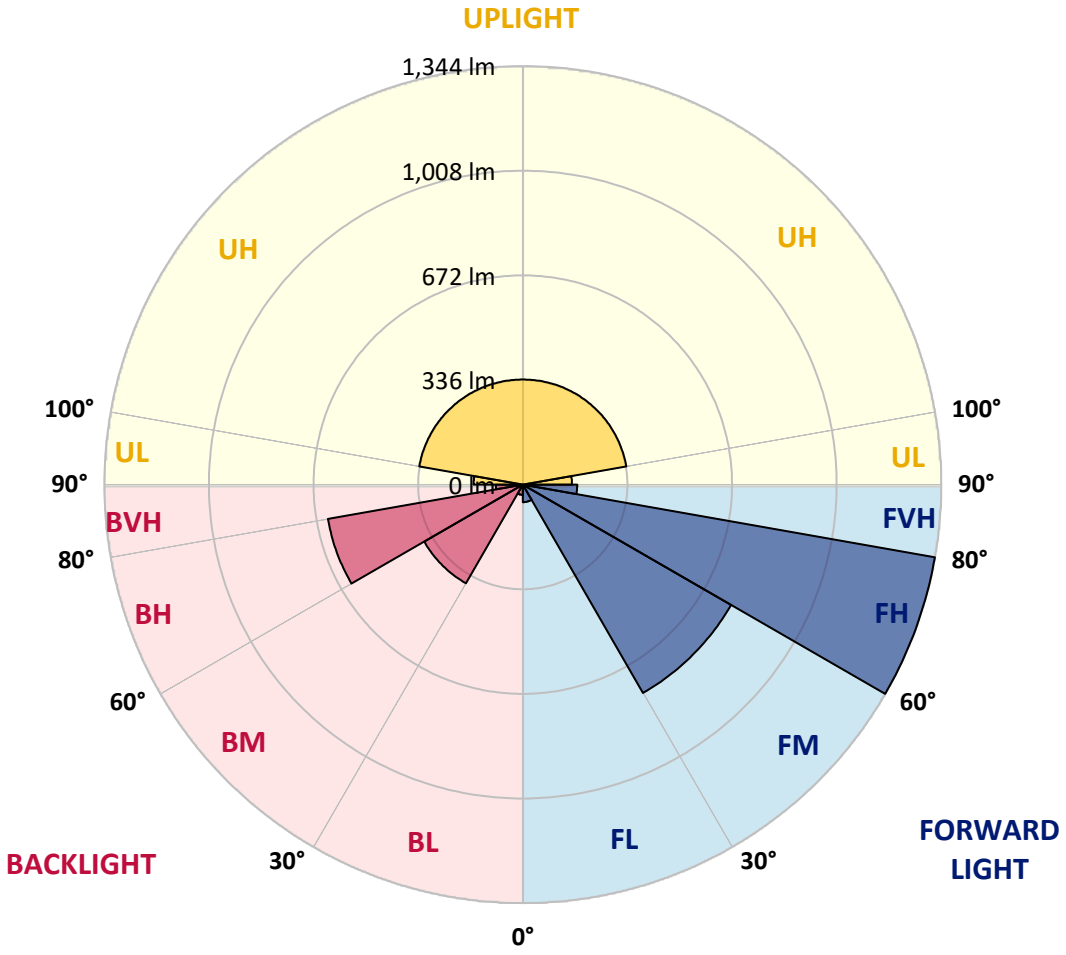
Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-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°)	56.4	1.4			
FM	(30°-60°)	772.6	19.5			
FH	(60°-80°)	1344.1	33.9			G1/1800
FVH	(80°-90°)	174.7	4.4			G2/225
BL	(0°-30°)	33.0	0.8	B0/110		
BM	(30°-60°)	365.8	9.2	B1/1000		
BH	(60°-80°)	635.7	16.0	B2/1000		G2/1000
BVH	(80°-90°)	86.8	2.2			G1/100
UL	(90°-100°)	158.0	4.0		U3/500	
UH	(100°-180°)	337.7	8.5		U3/500	

BUG Rating: B2-U3-G2
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1
2.5°	72.1	72.1	82.5	84.3	94.2	97.3	91.9	87.7	97.8	118.7	122.0
5°	78.3	79.9	79.6	79.4	79.9	89.3	98.9	94.5	77.5	61.7	61.7
7.5°	88.7	89.3	89.0	88.7	85.3	79.9	77.5	84.6	89.0	75.7	63.5
10°	96.0	95.5	95.2	95.0	95.5	97.6	96.8	88.2	79.6	75.2	72.6
12.5°	109.8	110.1	109.3	108.8	108.2	107.5	106.7	108.5	103.8	91.1	82.5
15°	120.2	120.2	122.3	121.8	121.8	119.2	115.5	110.3	104.1	100.7	93.2
17.5°	131.1	131.4	131.1	131.1	130.1	126.7	122.8	118.1	111.6	105.9	99.4
20°	141.8	141.8	141.6	141.3	141.0	138.4	133.5	127.2	121.3	115.8	109.0
22.5°	153.0	153.8	154.3	153.8	153.0	150.4	144.9	139.0	133.2	125.4	118.1
25°	168.9	169.1	168.6	168.1	167.1	163.7	159.5	153.3	146.2	137.9	128.3
27.5°	184.0	184.5	184.2	184.2	182.1	179.3	175.1	166.8	159.0	149.4	139.5
30°	201.1	200.6	199.3	199.6	198.3	195.9	191.3	184.0	174.1	162.6	151.7
32.5°	218.1	218.1	216.2	215.5	215.5	212.3	207.1	199.6	190.2	178.0	167.3
35°	236.5	241.2	245.9	247.7	247.7	243.3	237.1	227.2	219.1	206.3	193.1
37.5°	325.3	322.4	311.0	312.3	308.3	306.5	302.4	294.0	282.8	263.3	243.0
40°	356.5	356.0	347.4	346.3	344.5	338.5	334.1	328.4	324.5	301.1	270.6
42.5°	362.0	364.8	376.3	379.1	394.0	384.8	367.2	334.9	326.8	309.1	296.4
45°	423.4	424.4	424.4	424.9	421.0	414.3	411.9	391.4	375.2	349.7	325.8
47.5°	484.5	486.9	477.7	485.0	495.2	481.4	475.1	458.2	436.1	416.3	377.0
50°	626.6	635.7	637.5	637.8	642.2	641.2	631.8	608.4	586.3	541.0	497.3
52.5°	889.7	898.5	902.4	893.0	879.2	873.0	875.3	865.7	814.5	765.8	677.1
55°	1233.1	1248.5	1248.5	1258.4	1254.2	1224.5	1222.7	1159.8	1077.0	1022.9	945.6
57.5°	1692.7	1669.5	1682.5	1696.6	1667.9	1636.7	1590.1	1524.3	1403.3	1309.9	1198.0
60°	2033.3	2023.9	1998.1	1982.3	1910.7	1848.8	1812.1	1764.0	1672.1	1549.3	1399.7
62.5°	2095.7	2102.5	2100.7	2100.7	2043.4	1969.3	1895.1	1824.6	1767.6	1641.1	1522.7
63°	2091.8	2100.1	2103.5	2102.5	2051.0	1977.9	1904.2	1826.4	1773.6	1644.5	1530.0
65°	2058.5	2065.5	2059.6	2057.5	2024.9	1975.5	1892.8	1815.7	1767.6	1629.4	1531.1
67.5°	1924.8	1923.2	1900.8	1911.0	1890.4	1862.8	1785.6	1709.6	1676.3	1525.3	1434.8
70°	1554.5	1543.6	1568.0	1582.6	1560.2	1549.3	1457.4	1407.5	1364.5	1249.8	1176.7
72.5°	1188.4	1165.7	1169.9	1183.2	1155.1	1147.5	1108.2	1067.1	1046.6	975.0	893.8
75°	931.8	919.6	896.9	900.6	877.4	869.9	865.7	853.7	845.7	786.1	705.7
77.5°	696.8	696.3	677.3	674.5	657.8	670.3	665.4	683.3	679.4	632.0	570.9
80°	487.6	484.8	489.7	487.9	484.0	491.3	483.5	493.4	493.4	462.4	436.6
82.5°	318.2	324.0	339.6	343.2	348.9	366.1	338.5	324.0	320.1	316.7	304.2
85°	315.9	317.5	310.7	311.5	308.9	302.4	307.3	309.6	305.7	287.0	259.4
87.5°	297.7	299.8	294.3	295.9	286.2	288.3	291.4	293.3	291.4	274.8	251.9
90°	250.8	253.2	258.1	258.1	258.9	259.4	254.5	257.3	255.5	239.7	223.0
92.5°	222.5	224.6	224.8	225.1	223.0	229.8	221.7	216.8	215.5	202.7	190.7
95°	203.5	201.1	200.6	201.1	200.1	199.8	194.6	191.0	189.4	179.3	167.6
97.5°	159.2	160.5	160.0	161.3	158.7	158.5	154.0	149.4	147.8	139.5	131.7
100°	139.7	139.5	140.0	140.3	138.7	136.9	133.7	130.4	128.5	122.3	114.8
102.5°	131.1	130.9	131.9	132.2	130.9	129.6	127.0	124.9	123.3	117.6	109.3
105°	125.7	124.9	126.2	126.2	123.3	122.6	120.7	120.5	119.4	112.7	104.6
107.5°	118.1	116.8	118.4	118.1	117.1	116.3	114.8	113.7	112.9	107.2	98.1

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

Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	111.1	109.3	*110.1*	110.6	111.4	110.8	109.5	107.5	105.4	100.7	93.2
112.5°	98.1	99.1	*98.9*	98.9	99.7	99.9	97.6	96.3	95.0	91.3	86.4
115°	93.2	93.2	*93.2*	93.2	91.1	90.3	88.0	86.4	86.1	81.7	78.6
117.5°	89.3	89.8	*91.1*	91.9	94.5	92.9	87.7	84.3	83.0	81.2	77.8
120°	105.1	103.3	*101.5*	101.2	101.5	100.4	99.4	97.1	93.9	89.0	79.6
122.5°	112.7	108.0	*108.8*	108.5	106.7	107.5	107.7	108.0	105.9	98.1	83.5
125°	94.5	93.2	*93.9*	94.7	95.0	94.7	94.2	96.5	93.7	91.1	80.1
127.5°	75.5	74.9	*73.4*	73.1	72.6	72.9	72.9	73.6	71.0	68.4	67.9
130°	71.8	70.8	*71.0*	71.3	71.0	69.5	68.4	67.1	66.9	64.3	60.6
132.5°	65.1	65.6	*70.0*	70.5	73.6	71.8	66.4	62.7	63.2	64.5	63.2
135°	60.9	60.6	*64.0*	64.3	69.0	67.7	63.2	59.1	59.1	62.2	60.9
137.5°	62.2	62.7	*63.0*	63.2	63.0	62.7	62.5	60.6	59.3	59.1	55.9
140°	66.9	66.6	*64.0*	64.3	64.0	64.0	65.6	66.9	62.5	58.5	53.3
142.5°	70.0	70.8	*69.7*	71.0	73.4	71.3	68.7	65.3	62.7	60.1	57.0
145°	95.0	93.2	*92.4*	91.9	90.3	85.9	83.3	79.9	76.8	72.6	67.4
147.5°	86.1	86.6	*85.1*	85.6	83.5	82.0	81.4	81.7	80.7	78.3	72.9
150°	68.4	69.0	*67.4*	66.6	65.8	65.8	65.8	66.4	65.1	63.5	60.9
152.5°	47.9	47.4	*46.8*	46.6	46.1	45.5	45.5	45.8	44.5	44.0	41.9
155°	44.0	43.7	*41.6*	41.1	41.6	42.2	42.4	41.6	40.6	39.6	36.7
157.5°	34.3	33.6	*33.3*	33.8	33.8	33.6	33.0	33.6	32.5	32.3	31.7
160°	28.1	27.8	*28.1*	28.1	28.4	28.4	28.1	28.1	27.6	27.8	27.8
162.5°	23.9	23.9	*23.9*	23.7	24.2	24.5	24.2	24.2	24.5	25.2	25.8
165°	20.6	20.6	*20.8*	20.8	21.1	21.1	21.3	21.6	22.1	23.9	25.5
167.5°	19.3	19.3	*19.5*	19.5	19.8	20.0	20.6	21.6	23.2	25.2	26.0
170°	19.0	19.0	*19.0*	19.0	19.3	19.5	20.6	22.1	23.9	25.2	24.5
172.5°	19.8	19.8	*20.0*	20.0	20.0	21.1	21.9	23.2	24.2	24.5	23.7
175°	20.6	20.3	*20.6*	20.6	20.8	21.6	22.6	23.2	23.7	23.9	24.2
177.5°	20.0	20.0	*20.0*	20.3	20.3	20.6	21.1	21.3	21.9	22.4	23.2
180°	19.5	19.5	*19.5*	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5

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

Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1
2.5°	122.0	118.7	92.4	79.1	90.3	112.2	114.2	98.9	76.8	53.3	48.7
5°	65.1	68.7	76.8	76.5	71.3	66.6	60.9	57.2	63.2	60.6	62.2
7.5°	58.8	55.4	56.7	66.4	64.8	49.2	44.5	43.5	48.7	60.6	59.3
10°	71.6	70.5	66.6	58.8	56.2	58.3	60.1	58.8	54.1	47.1	46.1
12.5°	80.9	79.6	80.1	85.1	79.1	65.6	58.0	55.7	58.3	68.7	70.8
15°	90.0	87.7	84.3	77.3	71.6	67.9	63.5	58.8	60.4	57.5	56.5
17.5°	96.3	92.6	85.6	80.4	74.7	70.0	66.1	61.1	57.8	57.0	57.2
20°	104.6	100.7	93.2	87.2	80.1	73.9	67.1	61.9	58.5	57.2	57.2
22.5°	114.2	109.5	101.0	92.6	84.8	76.8	68.7	63.0	59.8	58.5	58.0
25°	124.4	119.7	109.0	100.2	90.3	81.4	73.1	65.8	62.5	60.9	59.6
27.5°	134.8	129.1	118.4	107.5	96.8	86.4	77.5	70.0	65.3	62.7	63.0
30°	146.2	141.6	129.6	117.1	103.8	91.6	83.0	74.4	68.7	65.8	66.1
32.5°	161.6	154.0	139.7	125.4	112.4	98.9	88.0	78.1	71.8	70.0	70.3
35°	187.1	177.5	160.0	140.5	123.1	107.2	93.4	81.7	74.4	71.6	71.3
37.5°	233.1	220.1	200.1	177.2	152.0	126.2	103.8	85.9	76.8	72.1	71.3
40°	255.5	237.8	212.6	192.8	175.6	153.5	128.0	101.0	80.7	74.7	73.9
42.5°	285.4	270.6	237.8	199.3	176.4	157.9	140.0	122.6	97.3	81.7	78.8
45°	314.3	301.1	275.3	237.6	203.5	174.6	147.8	128.8	113.2	97.3	96.0
47.5°	363.0	348.9	306.0	272.4	236.5	203.7	175.6	144.4	124.1	112.9	112.9
50°	485.0	459.3	416.9	365.3	307.6	254.5	214.7	176.4	152.0	135.0	134.3
52.5°	655.5	619.0	556.6	499.6	431.4	370.0	308.1	241.5	205.8	181.4	181.1
55°	901.6	864.4	780.9	671.3	587.8	514.4	450.2	377.0	320.8	281.3	278.2
57.5°	1164.2	1133.0	1047.9	911.8	780.1	650.3	572.5	514.2	487.1	459.5	453.8
60°	1334.4	1280.8	1203.2	1073.4	945.9	780.4	683.8	617.0	607.8	601.9	594.3
62.5°	1441.6	1378.3	1263.1	1107.5	990.4	833.7	747.3	676.0	654.7	622.7	613.6
63°	*1453.8*	*1385.1*	*1272.7*	*1106.7*	*991.7*	*834.5*	*752.0*	*676.0*	*651.0*	*612.5*	*606.5*
65°	1448.1	1384.3	1272.2	1090.5	961.5	819.1	738.5	645.1	605.2	554.2	544.1
67.5°	1360.6	1292.7	1187.1	1008.6	892.0	746.8	658.1	558.9	498.6	448.6	436.9
70°	1107.7	1065.6	972.7	818.4	729.9	616.7	538.9	461.1	395.8	343.2	329.9
72.5°	844.1	799.9	730.1	630.0	564.7	486.9	413.2	353.4	299.5	264.6	265.7
75°	669.8	627.6	570.1	504.3	450.9	381.7	308.9	249.5	211.3	190.5	188.7
77.5°	539.4	510.3	460.1	399.4	353.4	281.0	216.2	164.5	136.1	124.1	120.7
80°	415.8	395.5	358.0	304.7	256.8	197.5	147.3	116.3	101.2	91.1	89.3
82.5°	295.9	283.6	252.4	215.2	182.7	151.7	129.1	108.8	93.2	84.6	82.0
85°	246.9	235.5	215.7	192.6	171.7	149.1	125.2	103.6	89.0	82.2	78.8
87.5°	239.7	229.0	210.0	185.3	162.6	138.2	114.0	93.7	83.3	76.8	74.7
90°	214.7	206.6	190.0	167.3	144.7	119.7	98.6	84.3	76.2	71.0	68.7
92.5°	185.0	178.0	164.2	145.2	126.2	108.2	92.1	80.1	72.1	66.9	65.1
95°	160.8	156.4	144.9	128.8	115.0	100.2	86.4	74.9	66.6	61.9	60.1
97.5°	128.3	123.1	114.8	103.6	93.2	82.7	72.6	64.8	58.8	55.7	54.1
100°	111.6	108.2	100.7	91.9	83.0	73.9	66.1	60.1	56.2	53.6	52.3
102.5°	105.1	102.8	95.8	86.9	78.6	69.7	61.9	56.5	53.6	51.3	50.2
105°	99.1	97.3	91.9	83.8	75.7	66.1	57.2	52.6	50.0	48.4	47.6
107.5°	92.9	90.8	85.6	77.8	70.8	62.5	54.6	48.9	45.5	43.7	43.5

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

Scaled Data Report

REPORT NUMBER: P1046414
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	87.7	86.1	80.4	74.2	67.4	59.6	52.8	46.8	42.9	40.9	40.6
112.5°	82.2	80.4	74.7	68.7	63.0	56.2	50.2	45.0	41.4	39.3	39.0
115°	74.9	73.4	69.2	63.5	58.8	52.3	47.4	42.7	39.8	37.7	37.5
117.5°	75.7	71.3	65.6	60.4	56.2	51.5	47.1	43.5	39.0	36.7	36.7
120°	76.8	72.6	66.9	62.5	60.1	56.5	49.7	44.5	38.5	36.2	35.9
122.5°	75.7	76.2	73.1	68.7	64.0	57.8	49.4	43.7	37.7	35.9	36.2
125°	73.4	75.7	71.3	65.3	59.1	53.1	46.1	40.9	37.2	35.9	35.6
127.5°	66.4	65.8	60.1	55.7	51.3	46.3	41.9	38.8	36.2	34.6	33.8
130°	58.5	58.3	55.9	52.3	47.9	43.5	39.6	37.5	34.9	32.8	32.3
132.5°	61.7	60.9	55.9	50.0	45.0	41.4	38.8	36.4	32.8	30.4	30.2
135°	58.3	57.8	52.8	46.8	42.4	40.6	38.8	35.4	31.0	29.1	28.9
137.5°	53.3	51.3	47.1	43.5	41.4	40.9	38.5	34.6	30.4	28.4	28.1
140°	50.7	49.2	46.1	43.7	41.4	38.5	35.1	31.5	28.6	27.1	26.8
142.5°	53.9	53.3	48.7	44.5	40.9	37.5	33.8	31.5	28.4	26.3	26.0
145°	63.8	61.1	55.4	49.7	46.6	42.2	37.5	32.5	26.8	23.7	22.9
147.5°	69.7	67.4	61.7	55.4	48.7	41.6	34.3	28.1	23.7	21.3	20.8
150°	57.8	56.7	53.1	47.4	41.6	35.1	29.1	24.7	21.9	20.3	20.3
152.5°	40.6	40.3	38.8	35.4	31.7	28.1	25.0	22.4	20.8	19.8	19.8
155°	35.9	35.4	34.3	31.2	28.6	25.5	23.2	21.6	20.6	19.8	19.8
157.5°	31.0	30.4	30.2	27.8	25.8	23.7	21.9	20.6	19.8	19.3	19.0
160°	27.6	26.8	26.0	24.7	23.4	22.4	21.6	20.6	19.8	19.3	19.3
162.5°	25.8	25.2	23.9	22.9	22.4	22.4	22.6	22.1	20.6	19.8	19.5
165°	25.8	25.0	23.2	22.1	22.1	23.4	24.7	23.7	22.4	20.8	20.6
167.5°	26.0	25.5	23.7	22.9	23.7	25.2	26.5	26.3	24.5	23.2	23.2
170°	24.2	23.9	24.2	25.0	25.8	26.0	26.5	26.3	26.8	28.6	28.6
172.5°	23.4	23.7	25.0	26.3	27.8	27.8	26.5	26.3	28.6	31.2	31.7
175°	24.5	25.0	26.3	27.8	29.1	29.1	27.8	28.1	30.4	32.8	33.3
177.5°	23.4	23.7	24.2	23.9	24.5	23.2	23.7	23.2	23.9	23.9	23.9
180°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5

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

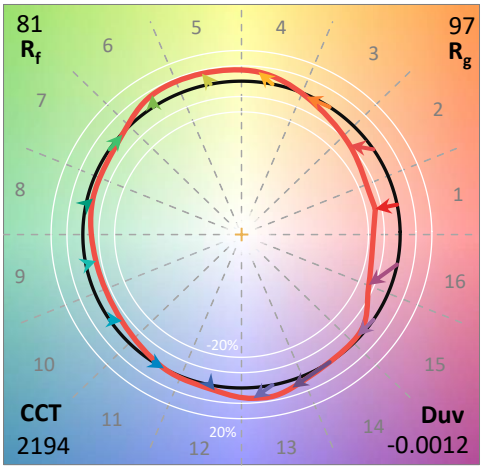
Test Information

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

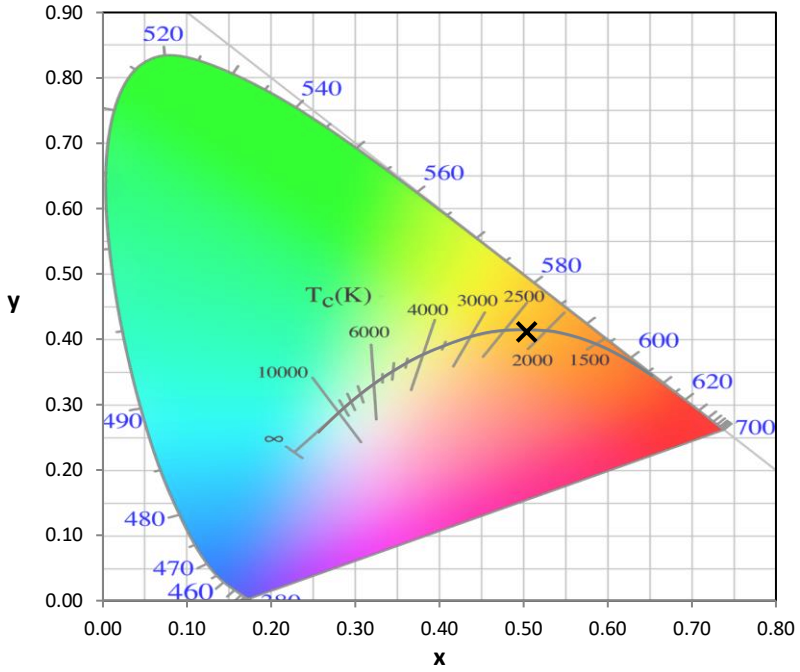
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

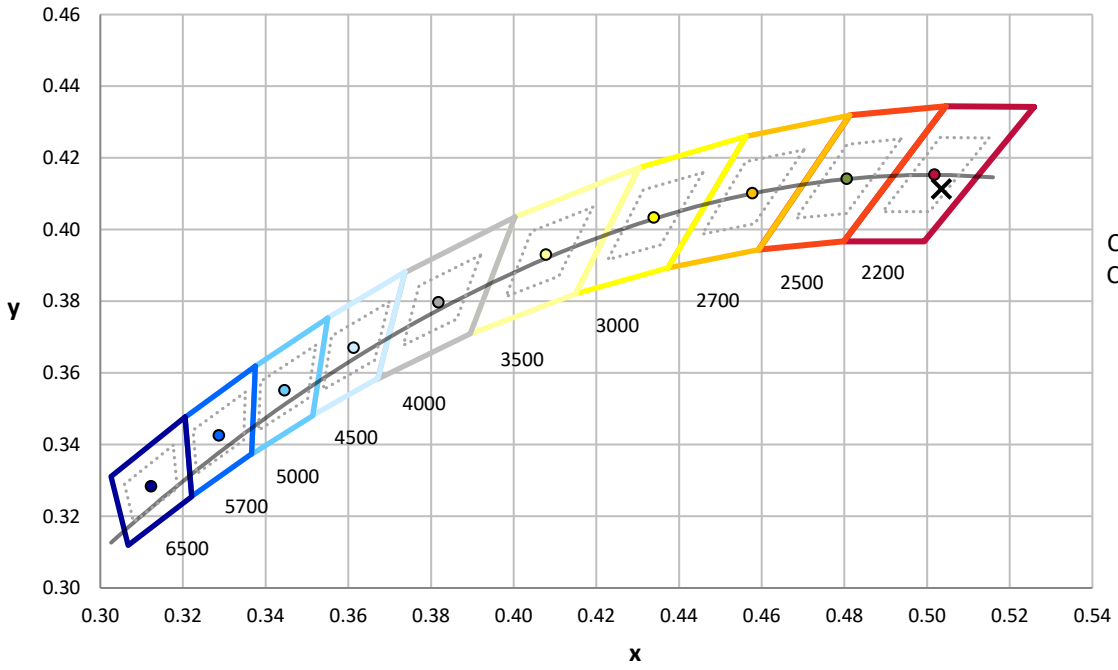
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

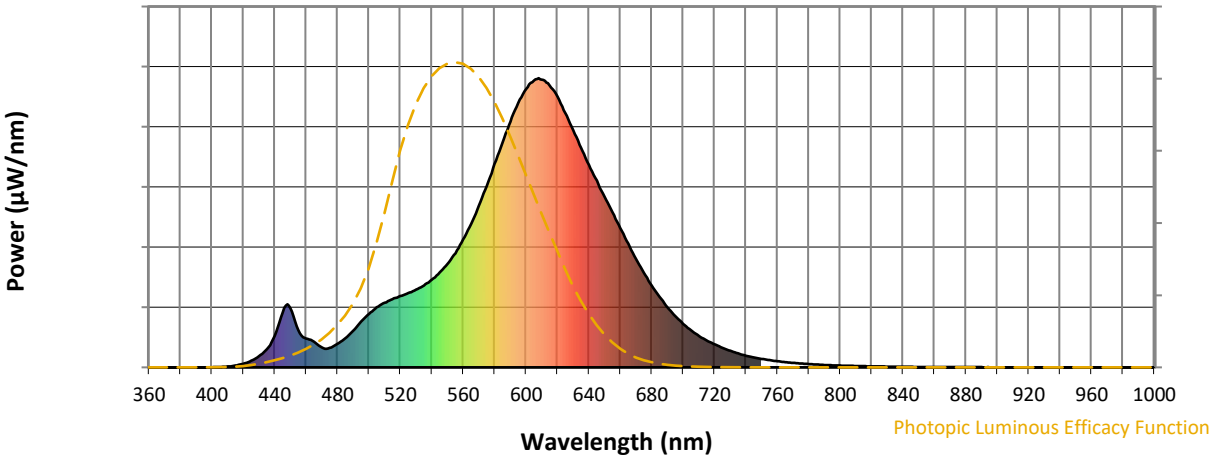


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

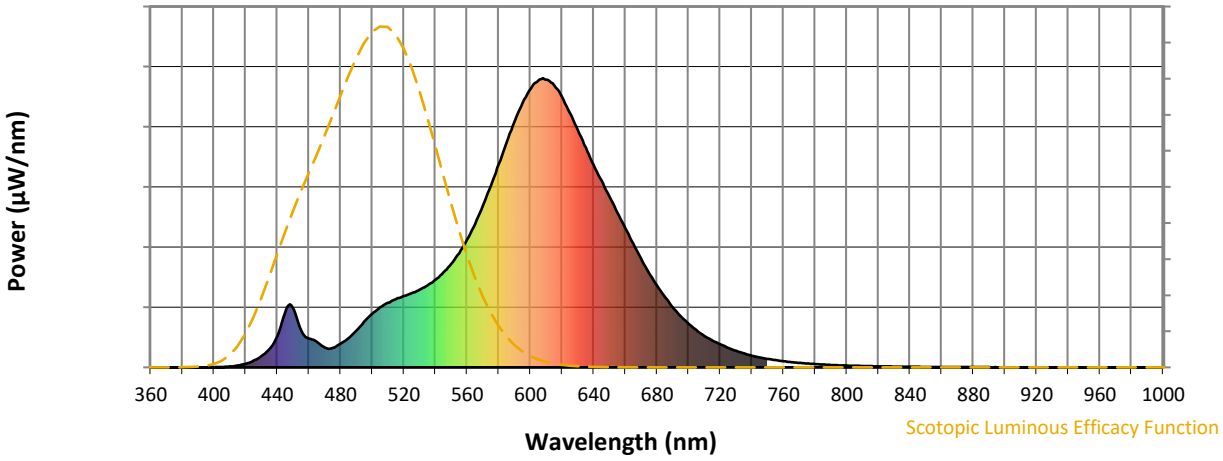


Photopic Lumens: NR

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

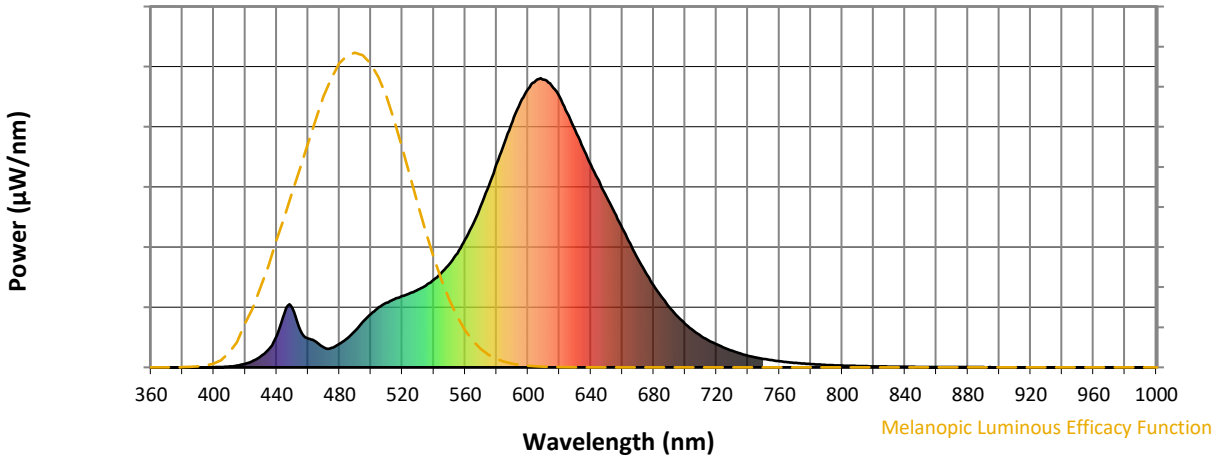


Scotopic Lumens: NR **S/P: 0.96**

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			

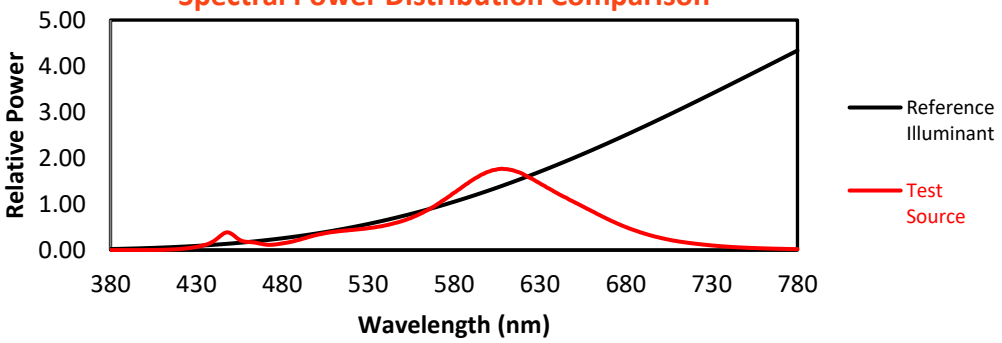
REPORT NUMBER: SP1-2501-332-7

TM-30-18

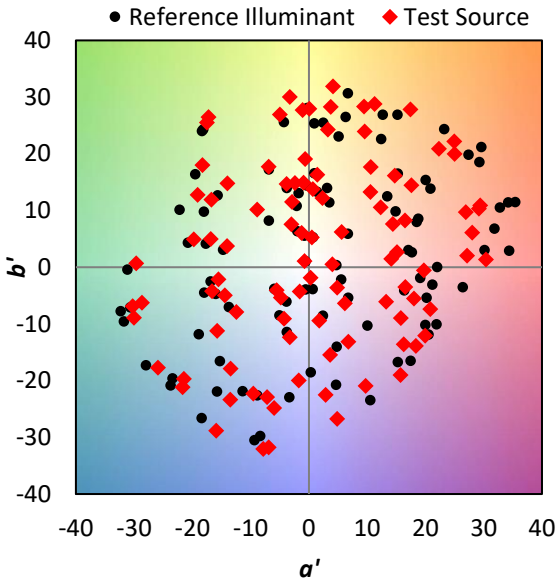
Summary

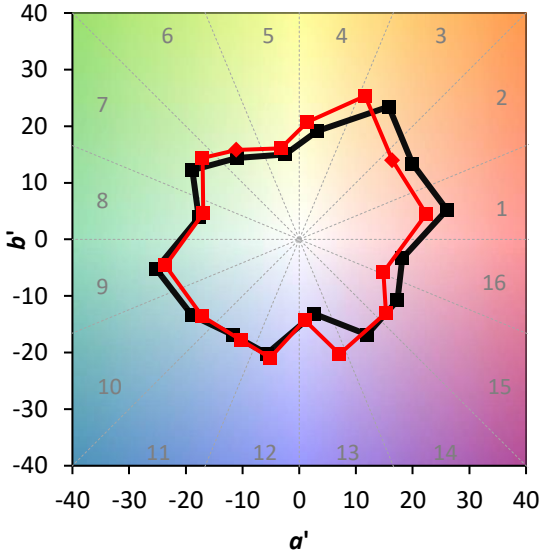
R_f = 81
R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

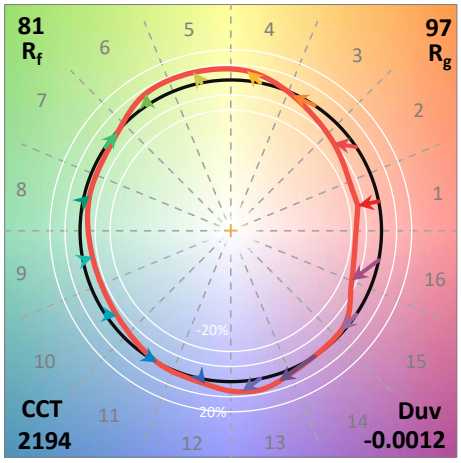
Spectral Power Distribution Comparison

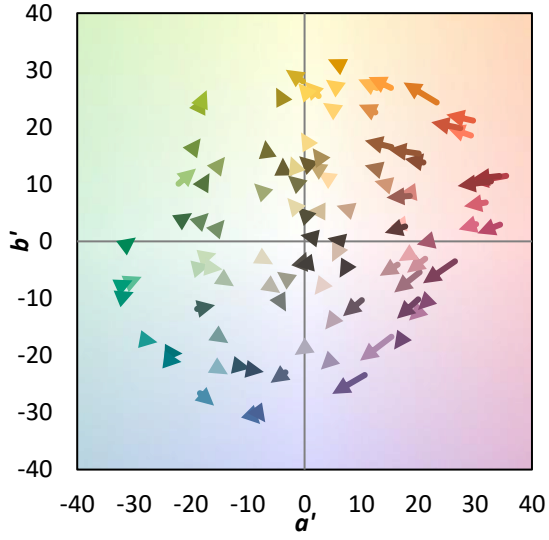


Color Vector Graphics







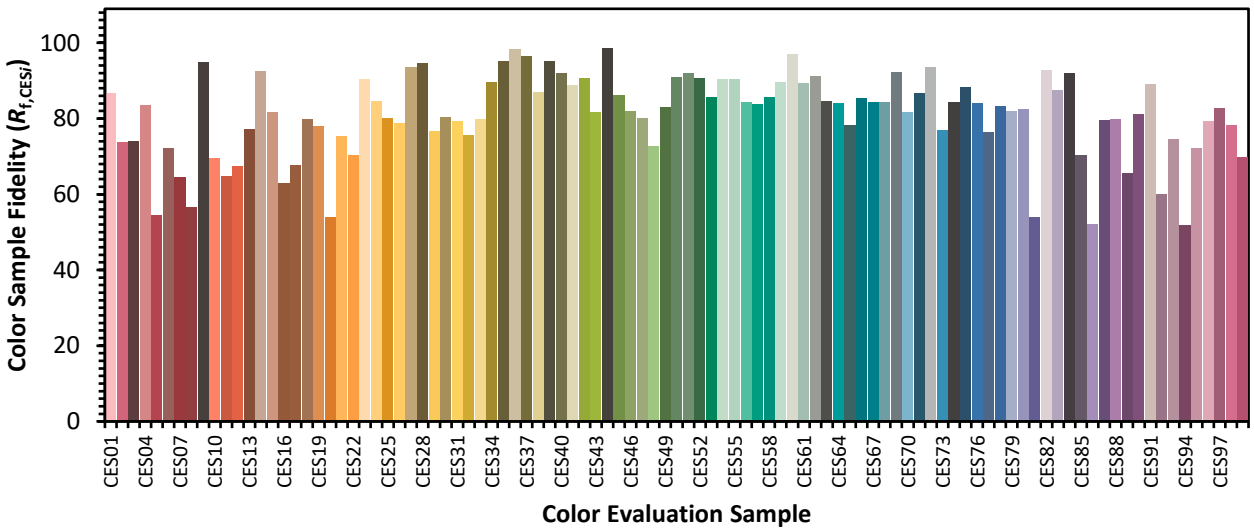


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

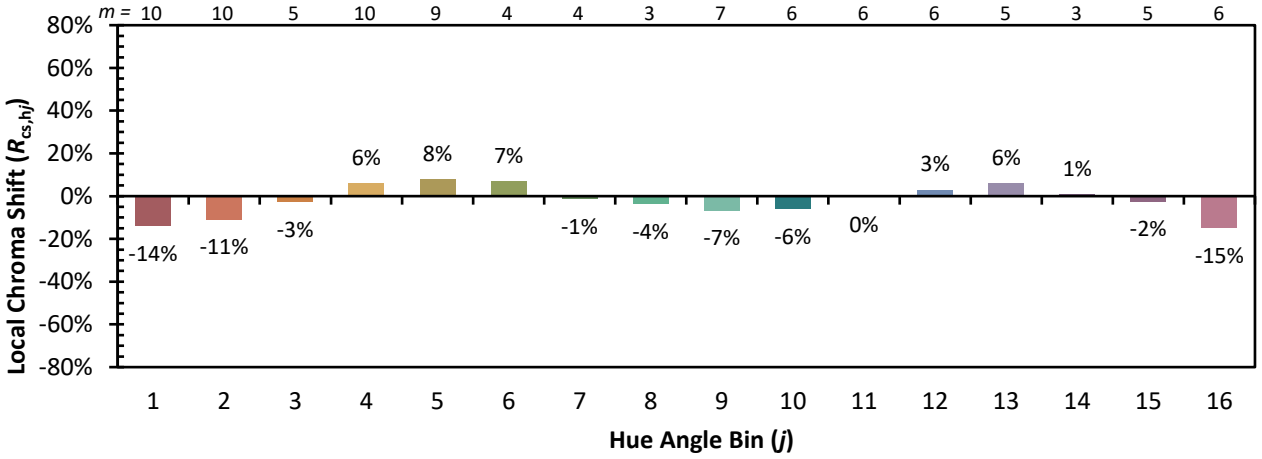
CES01 = 87	CES26 = 79	CES51 = 92	CES76 = 84
CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 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	

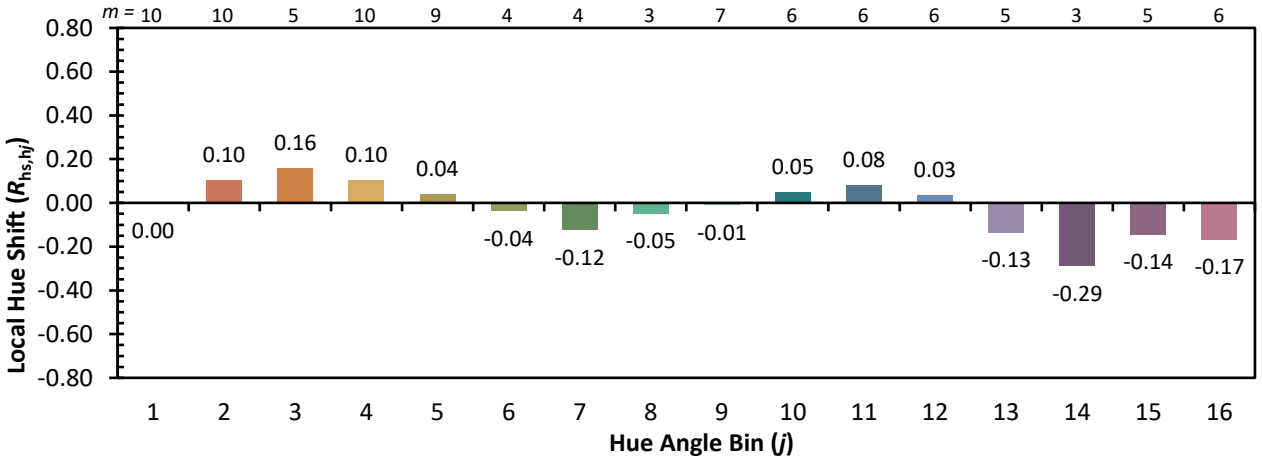


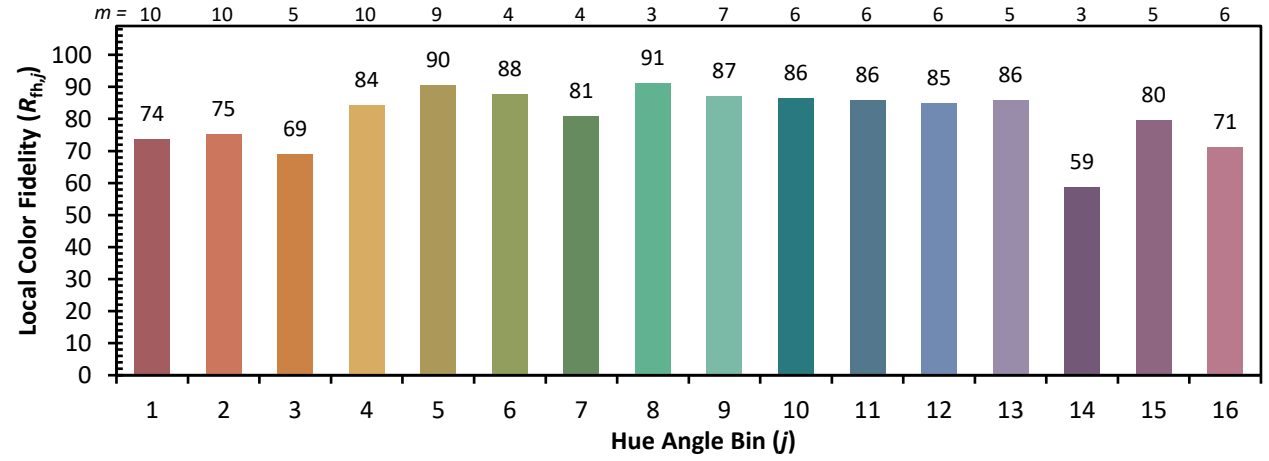
REPORT NUMBER: SP1-2501-332-7

TM-30-18

Color Rendition by Hue-Angle Bin



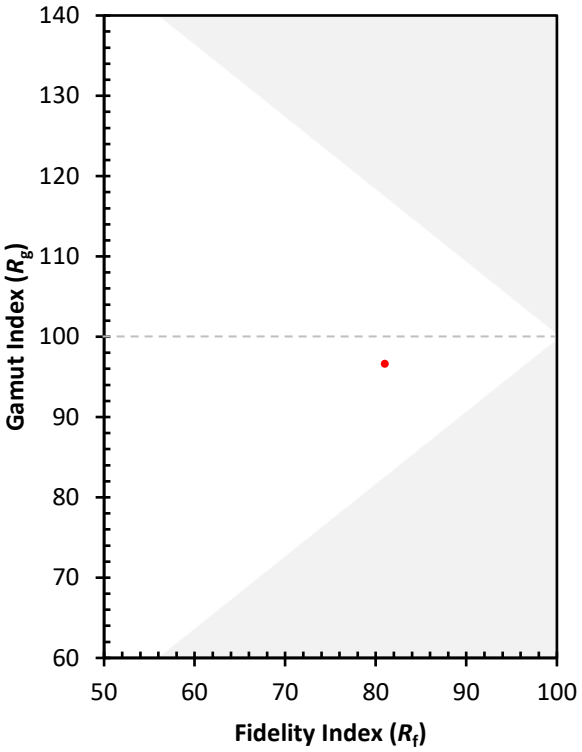


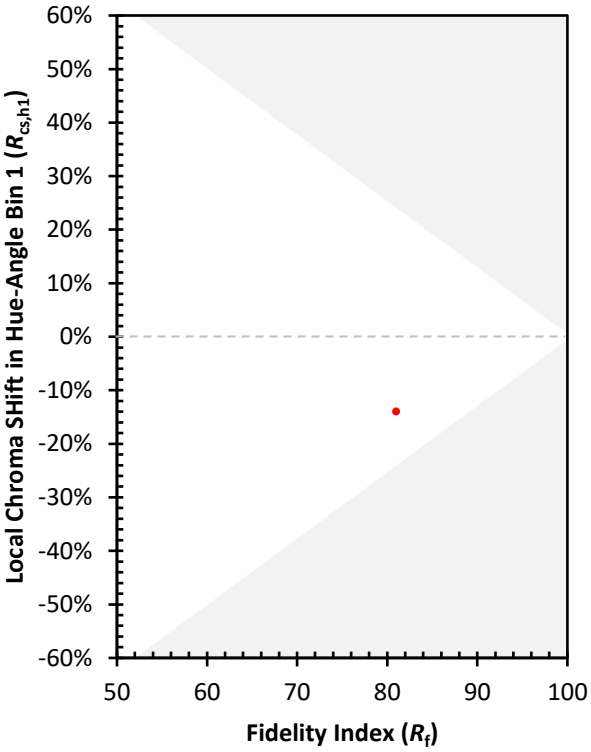


REPORT NUMBER: SP1-2501-332-7

TM-30-18

Measure Comparisons





(END OF REPORT)