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: P1046550

Luminaire Tested: **FFX-CLB-20-722-U-FR-T3-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046550
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2414.1 lumens
Efficiency:	N/A
Efficacy:	121.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B0 - U3 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

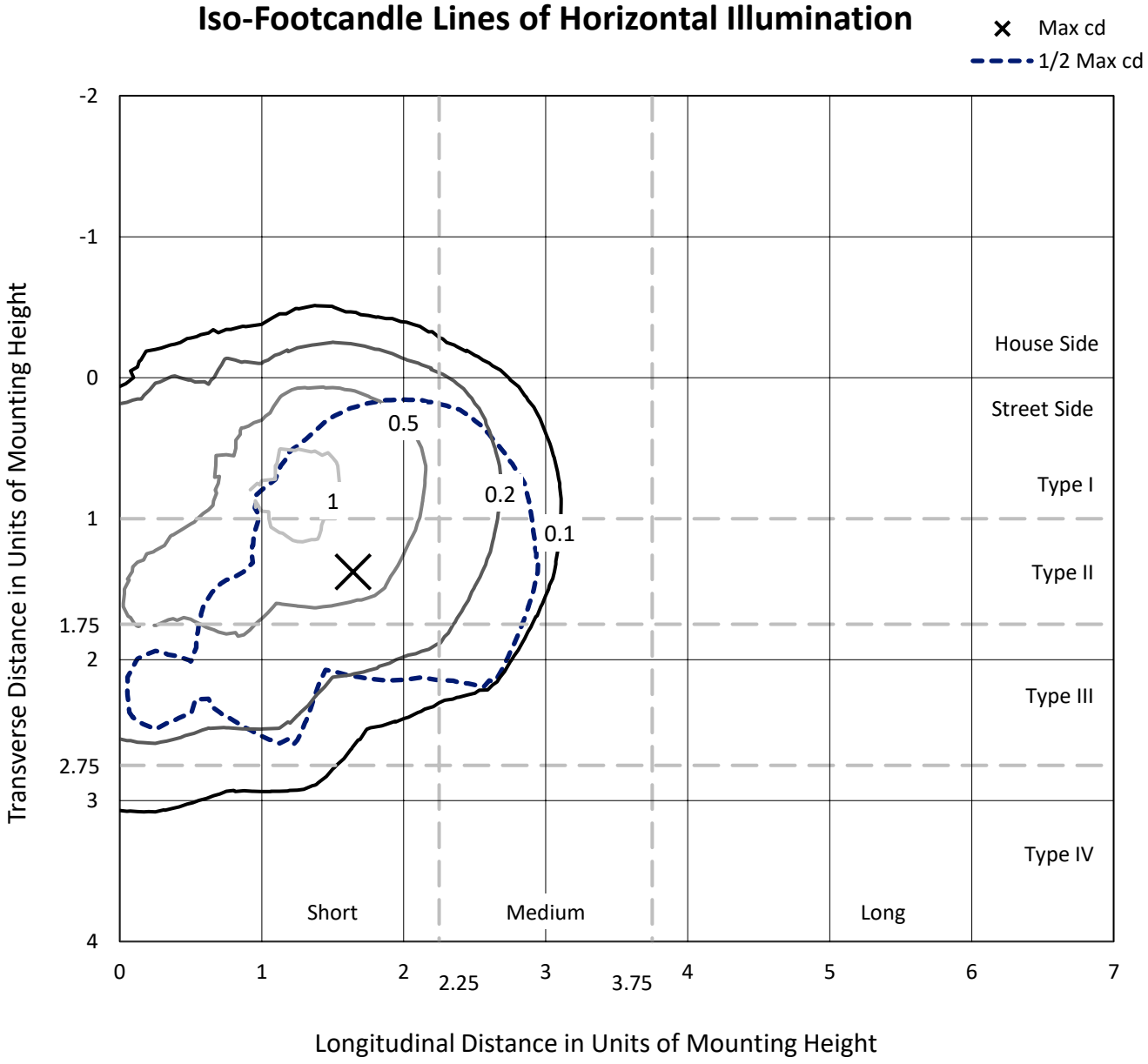


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Iso-Footcandle Lines of Horizontal Illumination



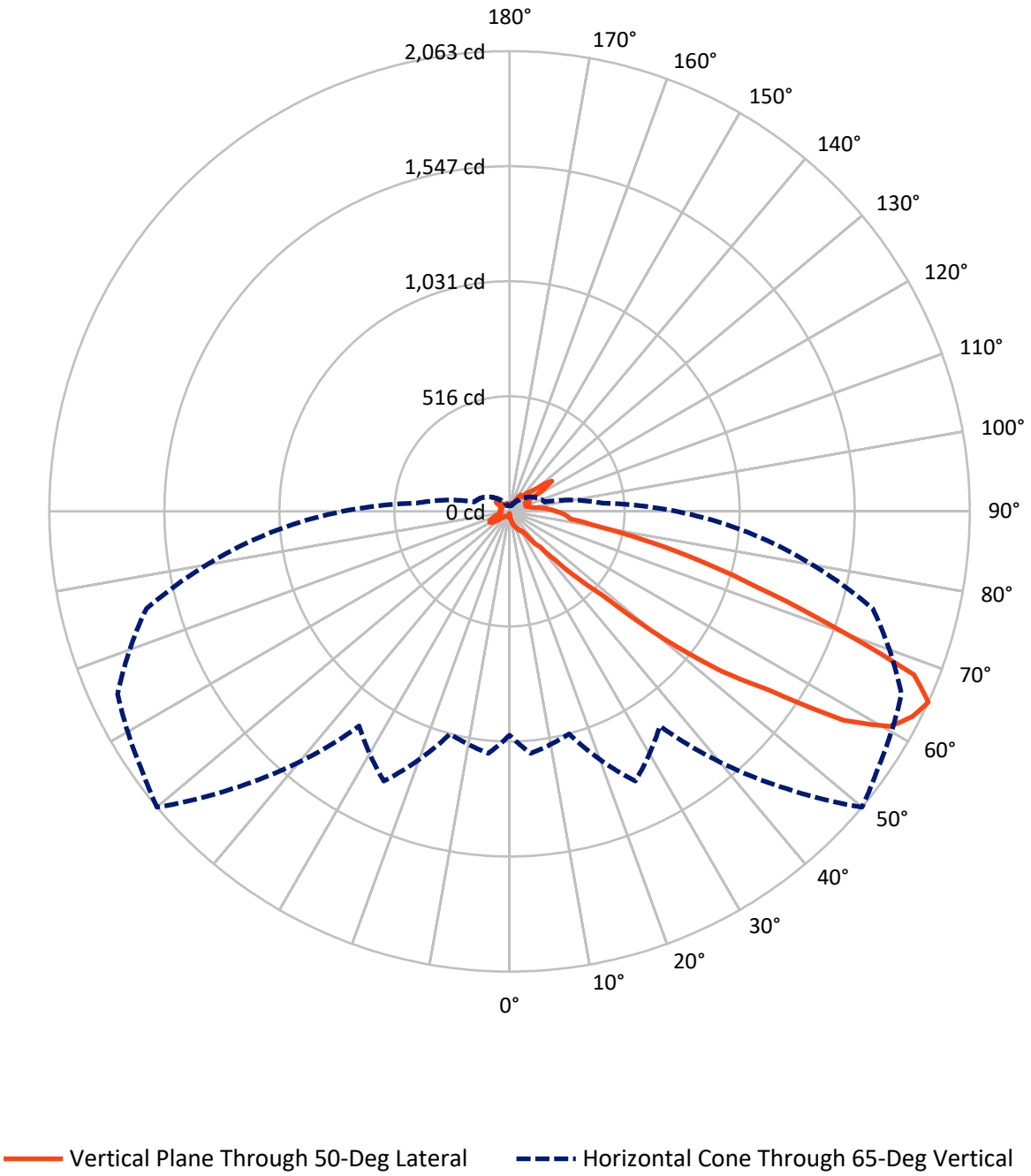
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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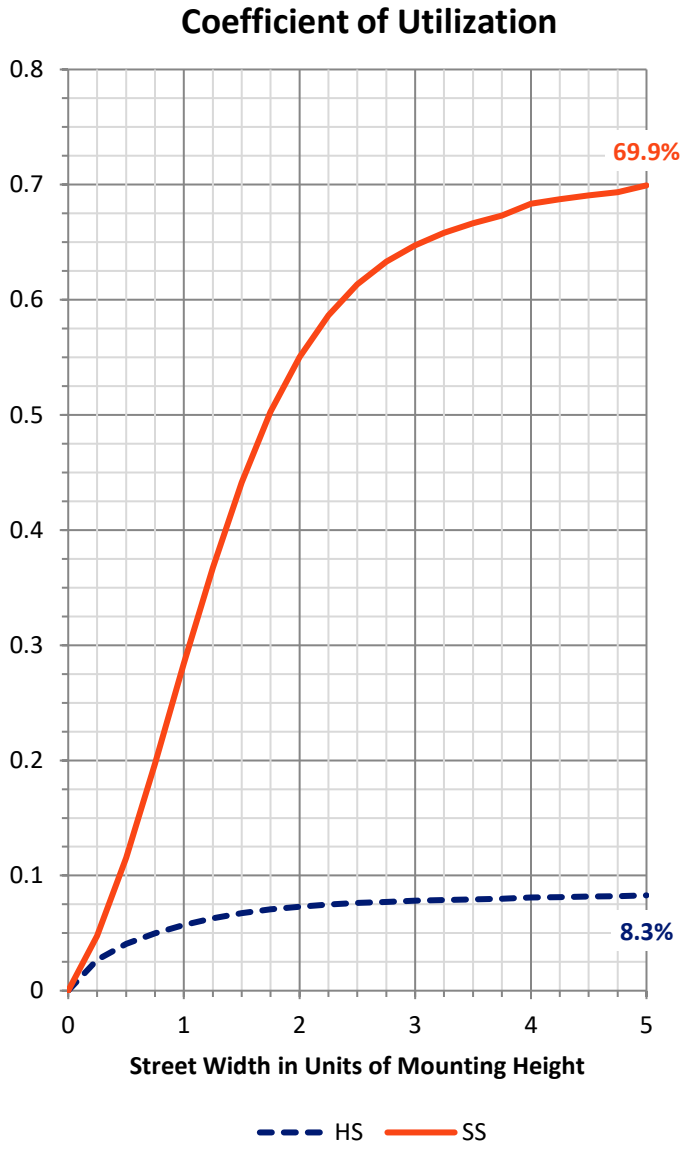
REPORT NUMBER: P1046550
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.8	139.4	351.2
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	1746.3	316.7	2063.0
	% Fixture	72.3	13.1	85.5
Total	Lumens	1958.1	456.1	2414.1
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.1
10°-20°	12.6	0.5
20°-30°	26.9	1.1
30°-40°	53.7	2.2
40°-50°	140.7	5.8
50°-60°	466.2	19.3
60°-70°	735.3	30.5
70°-80°	383.9	15.9
80°-90°	136.3	5.6
90°-100°	88.0	3.6
100°-110°	59.4	2.5
110°-120°	67.7	2.8
120°-130°	112.2	4.6
130°-140°	64.1	2.7
140°-150°	35.1	1.5
150°-160°	17.2	0.7
160°-170°	9.1	0.4
170°-180°	3.3	0.1
0°-90°	1958.1	81.1
0°-180°	2414.1	100.0



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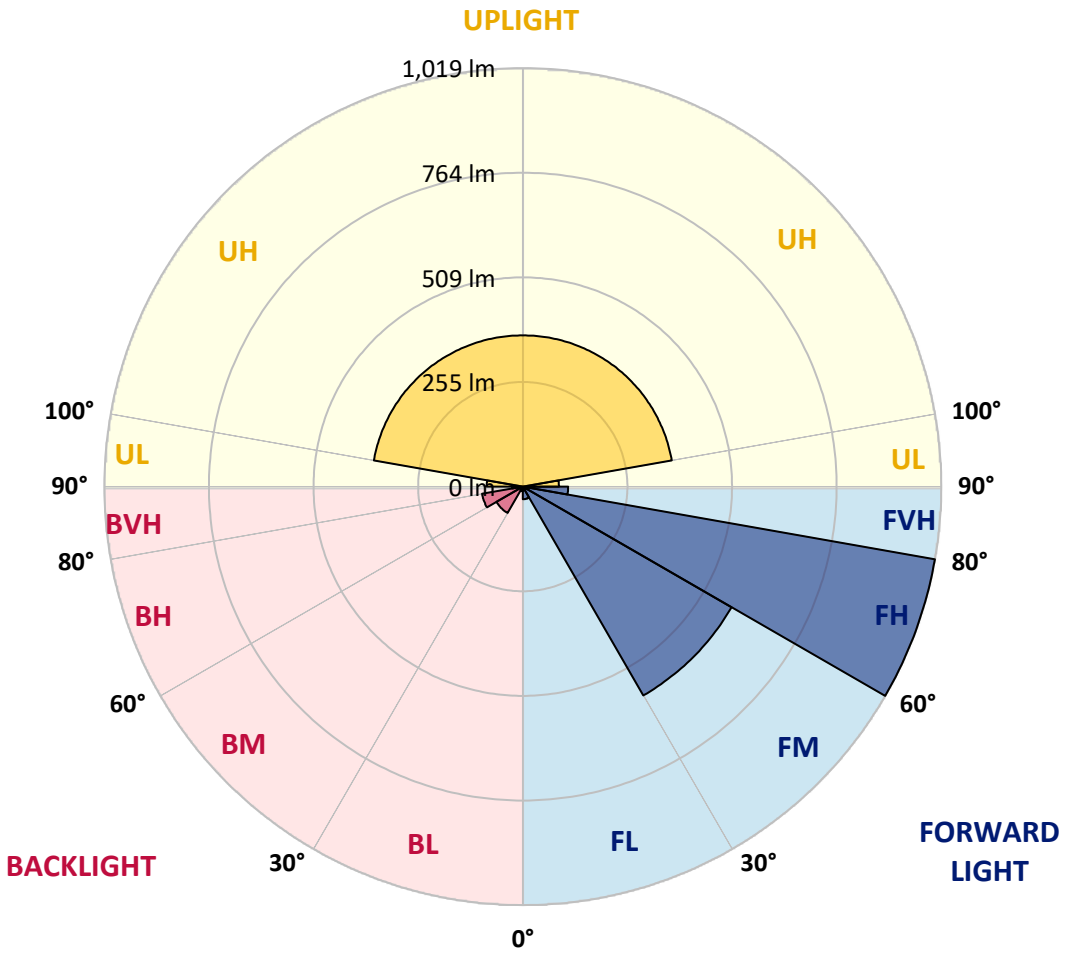
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	30.7	1.3			
FM	(30°-60°)	586.7	24.3			
FH	(60°-80°)	1018.5	42.2			G1/1800
FVH	(80°-90°)	110.4	4.6			G2/225
BL	(0°-30°)	11.1	0.5	B0/110		
BM	(30°-60°)	74.0	3.1	B0/220		
BH	(60°-80°)	100.7	4.2	B0/110		G0/110
BVH	(80°-90°)	25.9	1.1			G1/100
UL	(90°-100°)	88.0	3.6		U3/500	
UH	(100°-180°)	368.1	15.2		U3/500	

BUG Rating: B0-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	16.4	16.2	16.5	17.1	16.9	16.4	16.0	15.9	15.4	15.2	14.7
5°	24.2	24.1	23.7	24.1	24.2	23.5	23.2	22.4	21.5	20.0	19.1
7.5°	34.0	34.1	34.5	33.6	33.3	31.7	31.4	30.5	29.2	27.3	26.8
10°	46.1	46.2	47.1	45.7	43.5	41.6	41.3	41.6	43.2	38.4	35.5
12.5°	58.0	57.5	60.1	59.4	56.5	53.7	52.4	52.5	51.9	48.3	43.5
15°	69.1	69.1	71.0	71.7	68.6	62.3	60.2	59.7	59.4	55.6	49.0
17.5°	76.1	76.4	76.6	76.6	75.6	70.3	67.9	66.9	63.8	60.4	54.3
20°	81.9	82.1	80.5	80.7	82.2	77.6	75.2	73.2	70.0	66.4	58.7
22.5°	89.9	89.6	87.2	86.2	89.6	85.6	83.1	80.9	76.9	72.9	65.9
25°	98.8	98.4	96.1	93.5	95.9	92.3	89.6	87.5	83.9	81.2	66.9
27.5°	107.3	107.0	102.9	102.5	100.5	98.8	95.9	95.4	92.6	84.6	66.4
30°	113.6	113.3	108.9	109.0	103.7	105.1	100.8	100.5	97.2	86.7	67.6
32.5°	116.0	116.4	114.5	113.6	106.5	111.9	108.0	106.6	105.8	92.1	73.5
35°	124.7	127.4	130.3	131.4	124.9	135.1	127.1	126.1	128.1	112.1	91.8
37.5°	191.8	190.4	179.7	164.5	161.1	183.6	182.4	183.2	181.9	159.5	121.5
40°	191.9	192.8	186.0	176.8	166.0	189.0	206.6	191.1	213.8	173.9	133.2
42.5°	201.7	198.9	215.1	218.7	206.8	241.1	292.9	234.4	283.4	211.9	181.4
45°	238.7	238.7	241.6	243.3	239.0	325.2	425.5	327.1	378.8	265.1	217.7
47.5°	276.9	273.7	290.2	318.0	334.6	418.5	561.7	432.2	513.7	356.4	302.2
50°	386.1	390.7	422.4	454.9	479.6	623.1	904.2	740.5	839.1	548.0	461.3
52.5°	470.9	497.8	522.2	613.2	624.3	851.4	1188.7	993.5	1075.0	770.0	571.2
55°	558.4	611.8	626.3	786.9	799.5	1094.0	1415.1	1258.4	1281.5	1015.1	678.2
57.5°	718.8	793.3	798.3	969.6	969.1	1409.4	1766.7	1638.7	1621.3	1292.7	842.1
60°	856.8	941.8	911.4	1148.7	1095.5	1642.0	1957.3	1828.3	1790.2	1515.4	957.5
62.5°	940.6	1023.5	986.1	1266.8	1176.2	1753.2	2026.2	1950.9	1886.1	1650.2	1051.5
65°	1003.0	1088.5	1032.5	1333.8	1174.7	1758.7	2062.7	2014.1	1938.2	1685.3	1072.1
67.5°	994.8	1078.3	1011.2	1307.2	1092.6	1601.5	1955.4	1894.8	1801.0	1549.7	1002.7
70°	862.6	912.9	839.2	1113.4	873.5	1238.8	1523.2	1488.2	1398.0	1186.3	775.6
72.5°	726.1	738.6	669.5	871.5	681.1	902.5	1157.4	1120.1	1060.9	880.4	586.2
75°	560.8	560.8	521.2	653.4	506.0	640.5	876.1	866.5	830.0	660.6	445.1
77.5°	378.8	359.0	353.0	441.4	349.6	422.6	609.9	632.5	622.9	472.9	324.5
80°	220.8	225.5	217.2	272.5	230.0	276.4	391.4	421.1	420.2	314.1	212.9
82.5°	172.1	175.6	166.9	196.2	175.6	217.5	274.3	272.5	279.0	227.6	160.2
85°	169.6	172.1	163.1	181.4	168.6	206.6	257.8	257.3	255.9	210.7	150.5
87.5°	154.2	157.6	149.8	164.5	152.9	188.7	234.3	237.0	233.1	197.6	144.7
90°	129.0	132.6	129.2	146.2	134.3	162.8	203.7	205.8	202.3	176.1	130.5
92.5°	116.0	118.4	114.3	129.2	116.5	143.0	180.0	181.2	175.9	154.9	112.9
95°	107.0	109.4	104.2	115.2	102.9	126.1	153.2	157.1	149.3	130.7	96.2
97.5°	88.9	87.4	85.3	94.7	85.1	99.3	117.2	120.1	115.2	101.3	76.6
100°	76.9	77.5	76.6	83.4	74.7	85.3	99.3	100.5	98.4	88.4	69.3
102.5°	74.6	74.7	76.3	80.9	70.8	78.5	90.4	91.1	90.6	81.0	64.0
105°	73.9	73.7	74.6	79.5	69.1	71.8	83.3	83.6	81.9	75.4	59.9
107.5°	69.8	70.3	70.1	74.6	67.9	68.2	75.6	75.4	75.1	69.1	56.6
110°	80.0	79.2	75.6	75.8	69.3	71.0	78.3	77.5	75.8	72.2	61.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	113.8	111.4	107.3	93.8	87.0	91.8	*96.7*	97.6	95.7	92.5	78.1
115°	126.3	125.9	121.3	112.4	89.9	91.6	*94.9*	96.2	98.4	92.1	80.0
117.5°	103.6	109.2	102.0	103.2	90.4	79.5	*79.0*	76.3	77.5	76.8	74.0
120°	130.7	131.7	117.2	114.5	105.6	109.2	*109.4*	109.7	106.1	88.9	78.3
122.5°	183.7	183.7	187.8	195.4	190.7	184.3	*180.5*	176.8	171.8	155.4	132.9
125°	233.1	232.7	230.5	234.3	229.6	232.2	*233.4*	234.4	229.1	209.2	178.5
127.5°	187.8	192.6	200.6	220.9	208.1	204.6	*201.2*	203.5	199.6	195.9	176.8
130°	145.5	146.0	159.2	172.1	171.1	159.7	*155.8*	148.9	150.5	150.0	138.5
132.5°	124.4	125.1	132.7	140.1	146.2	137.9	*130.2*	126.6	127.8	126.9	119.6
135°	108.7	108.7	106.0	105.1	110.2	117.9	*117.0*	112.4	110.2	107.7	96.7
137.5°	94.0	93.7	88.7	86.0	90.1	100.0	*100.7*	100.7	98.4	92.3	84.5
140°	77.5	76.9	74.4	74.9	75.9	82.6	*83.1*	84.6	84.3	79.3	69.8
142.5°	58.7	58.9	62.6	66.9	69.3	83.6	*81.4*	79.7	85.1	84.8	60.9
145°	78.3	76.6	76.6	74.7	80.4	94.5	*90.1*	91.4	98.6	92.0	65.9
147.5°	71.8	72.7	72.9	72.5	79.7	80.5	*77.3*	77.5	80.0	80.0	67.4
150°	55.6	54.3	54.6	55.3	62.8	62.3	*59.4*	59.2	61.2	60.7	55.1
152.5°	44.0	43.8	43.7	44.4	50.5	47.9	*46.7*	46.2	45.9	45.4	44.0
155°	41.5	41.3	40.9	41.8	45.4	44.2	*43.5*	43.5	42.7	41.8	40.9
157.5°	36.9	36.7	36.9	38.6	40.6	39.2	*39.1*	38.9	38.6	37.5	37.2
160°	34.5	34.3	34.6	36.0	36.9	35.7	*35.3*	35.5	35.3	34.8	35.5
162.5°	32.6	32.6	32.6	33.4	33.8	32.9	*32.8*	32.9	33.1	33.1	34.0
165°	31.6	31.6	31.7	32.2	32.2	31.9	*31.6*	31.6	32.4	32.8	33.4
167.5°	32.2	32.2	32.4	32.6	32.6	32.2	*32.2*	32.4	32.9	33.3	33.3
170°	33.3	33.3	33.3	33.4	33.3	32.8	*32.8*	32.8	32.9	32.9	33.1
172.5°	34.5	34.5	34.5	34.3	34.0	33.8	*33.4*	33.4	33.6	33.4	33.6
175°	36.2	36.0	36.0	35.8	35.7	35.5	*35.3*	35.1	35.1	34.6	34.6
177.5°	37.0	36.9	37.0	37.0	36.9	36.5	*36.2*	36.2	36.0	35.7	35.5
180°	35.7	35.7	35.7	35.7	35.7	35.7	*35.7*	35.7	35.7	35.7	35.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	14.3	13.8	12.5	11.3	10.4	10.1	10.1	9.6	8.9	8.4	8.2
5°	18.9	18.6	18.1	17.4	15.9	13.8	12.1	11.4	11.1	10.9	10.7
7.5°	26.8	27.1	27.8	27.6	24.7	19.3	16.0	15.9	17.7	19.8	20.5
10°	34.6	34.3	36.5	38.4	31.2	21.8	16.5	16.0	18.6	22.2	22.7
12.5°	41.5	39.8	38.6	36.5	29.9	21.8	17.7	16.7	17.9	20.6	20.6
15°	46.6	44.4	39.4	34.6	28.7	22.5	18.4	17.7	17.7	16.9	17.1
17.5°	50.5	46.4	39.2	33.1	26.6	21.5	18.3	16.4	15.4	14.0	13.6
20°	55.1	52.2	42.7	34.1	26.3	20.8	17.7	15.5	14.3	13.8	13.6
22.5°	60.1	54.1	44.9	34.5	26.3	21.2	17.6	15.2	14.2	13.8	13.8
25°	60.6	55.4	46.1	35.8	27.1	21.8	17.9	15.4	14.3	14.0	13.8
27.5°	59.9	56.3	48.1	37.4	28.0	22.5	18.6	15.7	14.3	13.8	13.6
30°	62.4	59.5	50.5	38.4	28.8	23.4	19.3	16.4	14.7	13.6	13.5
32.5°	68.9	64.8	53.7	39.1	29.2	23.5	20.0	17.1	15.0	13.8	13.6
35°	86.0	82.2	66.2	41.5	29.2	23.9	20.5	17.6	15.4	14.0	13.8
37.5°	110.7	103.7	81.4	49.5	29.5	24.6	21.0	18.3	15.9	14.3	14.0
40°	117.4	99.1	69.1	44.4	30.2	25.3	21.8	18.9	16.5	14.8	14.7
42.5°	152.4	126.8	85.3	46.9	32.2	25.8	22.4	19.6	17.1	15.4	15.0
45°	163.1	126.9	86.7	54.3	37.9	28.0	23.2	20.1	17.4	15.7	15.5
47.5°	213.8	157.5	88.4	58.2	42.5	32.2	25.3	20.8	17.7	16.0	15.9
50°	313.4	222.1	109.7	72.7	52.5	39.4	29.7	22.2	18.1	16.5	16.2
52.5°	391.0	266.5	118.9	88.9	69.8	52.0	37.4	25.8	19.1	16.9	16.5
55°	476.7	327.4	135.1	107.1	84.6	65.2	47.4	31.1	21.2	17.4	17.1
57.5°	594.6	390.9	158.7	126.4	102.7	76.1	54.1	36.3	23.9	18.6	17.9
60°	666.2	417.8	162.4	136.8	113.5	84.8	57.0	38.6	26.8	20.3	19.3
62.5°	734.8	436.4	163.4	140.9	116.0	86.5	57.3	37.5	27.8	22.7	21.3
65°	*748.8*	*418.0*	*163.8*	*141.8*	*112.9*	*82.1*	*55.4*	*36.5*	*26.6*	*24.7*	*24.9*
67.5°	701.6	371.3	151.8	135.6	104.8	73.2	49.8	35.0	26.3	24.4	24.9
70°	551.6	290.9	138.7	125.7	88.9	62.3	44.4	32.9	26.3	23.5	23.0
72.5°	428.2	248.6	142.1	119.4	76.1	55.6	40.1	30.7	25.4	23.4	23.0
75°	332.4	207.5	140.1	105.1	62.1	47.8	36.0	28.2	24.2	23.0	22.9
77.5°	243.0	163.6	115.8	80.5	51.5	40.6	31.7	26.4	23.5	22.5	22.4
80°	156.3	114.5	80.7	64.3	45.2	37.0	29.7	25.3	23.2	22.5	22.4
82.5°	131.7	103.9	72.7	60.9	43.7	37.7	31.1	26.4	24.4	23.7	23.5
85°	126.8	107.0	74.7	63.5	41.8	36.0	30.4	26.4	24.6	23.7	23.5
87.5°	120.5	96.7	73.7	58.3	40.3	34.6	29.9	27.1	25.3	24.7	24.6
90°	109.0	85.3	67.6	54.3	42.5	36.9	32.9	30.0	28.2	27.0	26.6
92.5°	92.0	68.6	58.0	53.6	46.6	41.8	37.9	35.3	33.3	32.1	31.6
95°	77.5	59.9	50.5	47.4	41.1	37.5	33.8	31.9	30.4	29.3	29.3
97.5°	63.1	51.4	46.9	44.5	39.4	35.5	32.4	30.5	30.0	29.7	29.5
100°	59.4	50.3	47.3	45.2	41.1	37.5	35.1	33.4	33.3	33.1	33.1
102.5°	55.1	47.6	44.2	42.1	38.0	35.0	33.3	31.9	31.4	30.9	30.4
105°	52.0	45.0	42.5	39.8	36.5	33.4	31.7	29.7	29.3	29.2	29.2
107.5°	50.5	44.7	43.3	39.1	36.0	34.6	32.6	30.0	29.5	28.8	28.8
110°	55.8	49.6	45.7	40.4	37.2	36.0	35.5	33.3	31.6	29.5	29.3

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

Scaled Data Report

REPORT NUMBER: P1046550
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	69.1	60.7	56.1	48.3	41.6	38.7	36.5	34.1	33.1	31.7	31.2
115°	74.4	65.9	60.1	52.2	44.5	39.4	36.2	35.8	34.8	34.0	34.8
117.5°	76.3	59.9	49.5	47.6	41.8	37.7	36.2	35.7	36.0	36.0	34.5
120°	82.2	64.7	60.7	58.3	47.4	40.8	37.4	39.1	38.7	36.7	36.7
122.5°	122.7	109.5	96.6	80.5	66.9	59.0	47.4	39.8	38.2	36.9	36.0
125°	161.6	149.8	129.5	108.2	84.6	62.6	47.1	41.6	38.7	37.0	37.4
127.5°	164.6	152.2	129.0	102.9	75.6	58.5	47.4	42.7	39.4	37.5	37.2
130°	128.6	119.8	102.4	83.3	64.2	52.4	43.8	39.1	36.2	34.5	34.1
132.5°	113.8	106.3	88.2	71.5	58.5	48.6	41.3	36.0	34.0	32.8	32.6
135°	90.9	84.6	72.5	63.5	54.4	46.2	38.9	34.0	32.1	31.9	31.6
137.5°	79.7	74.6	65.2	57.7	50.2	42.3	36.2	32.1	31.2	31.4	30.9
140°	65.0	62.8	57.5	51.0	43.0	34.8	30.5	29.2	30.5	31.2	31.2
142.5°	55.8	52.9	46.9	39.4	34.3	30.5	30.0	29.5	30.2	30.5	30.5
145°	51.4	47.9	43.0	40.3	37.9	34.6	31.9	29.5	28.8	29.0	29.0
147.5°	58.0	54.1	50.8	45.7	39.9	34.5	30.4	27.6	27.6	28.3	28.5
150°	48.1	44.7	42.5	39.6	35.1	30.7	27.8	26.4	27.0	28.3	28.5
152.5°	40.3	36.2	34.8	33.1	30.7	28.3	27.0	26.3	27.1	28.2	28.2
155°	39.2	35.7	34.0	32.2	30.0	28.0	26.8	26.4	27.3	28.0	28.2
157.5°	36.9	34.8	32.6	31.2	29.5	28.0	27.1	26.8	27.5	28.0	28.2
160°	35.5	34.3	31.7	30.5	29.0	28.0	27.8	27.8	28.2	28.3	28.3
162.5°	34.0	33.3	31.7	30.7	29.7	29.2	29.5	29.7	29.7	29.5	29.5
165°	33.4	33.1	31.7	30.9	30.4	30.5	31.2	31.4	30.9	30.5	30.5
167.5°	33.3	33.3	32.2	31.6	31.4	31.7	32.4	32.4	31.9	31.2	31.1
170°	33.3	33.4	33.1	33.1	32.8	32.9	33.1	33.1	32.8	32.4	32.2
172.5°	33.8	33.8	33.8	33.8	33.6	33.8	34.0	34.0	34.0	33.8	33.8
175°	34.6	34.6	34.6	34.5	34.3	34.3	34.5	34.6	34.8	34.8	34.8
177.5°	35.5	35.3	35.1	35.3	35.1	35.1	35.5	35.7	35.8	35.8	35.8
180°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7

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

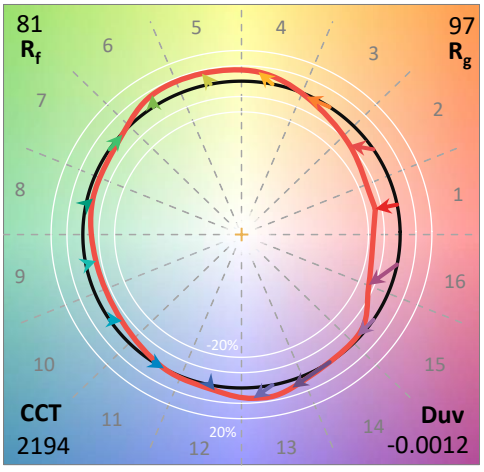
Test Information

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

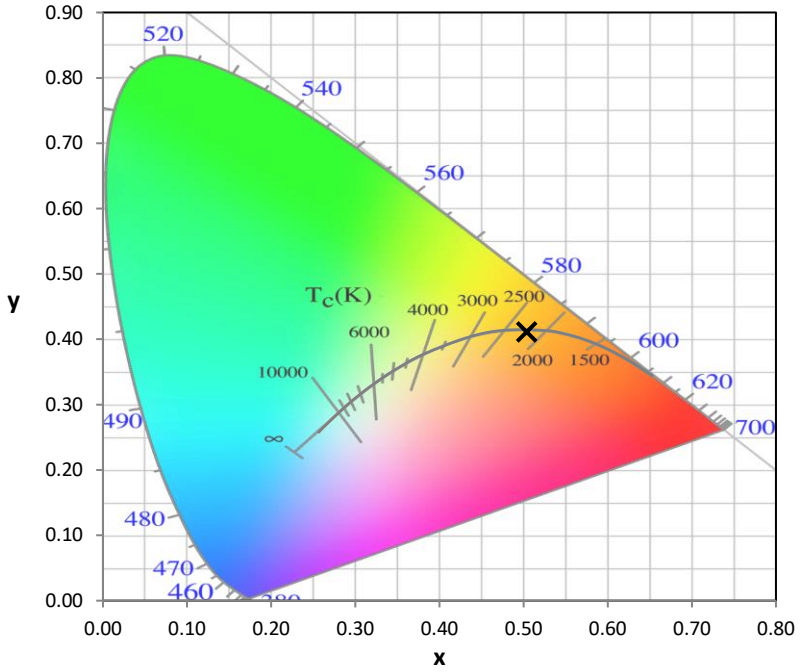
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

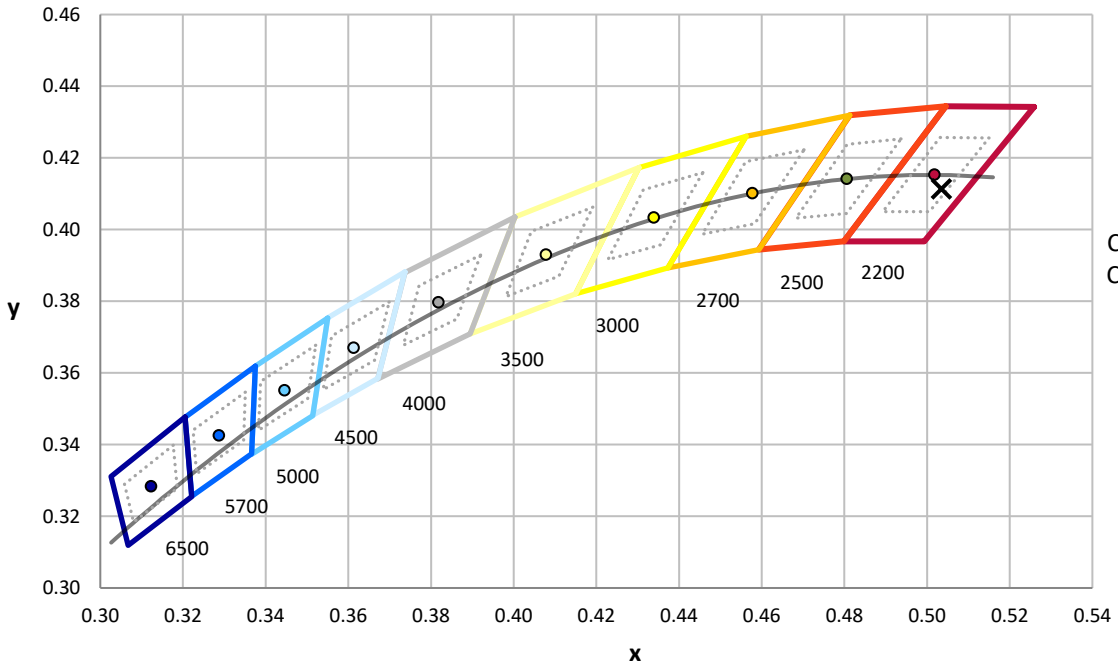
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

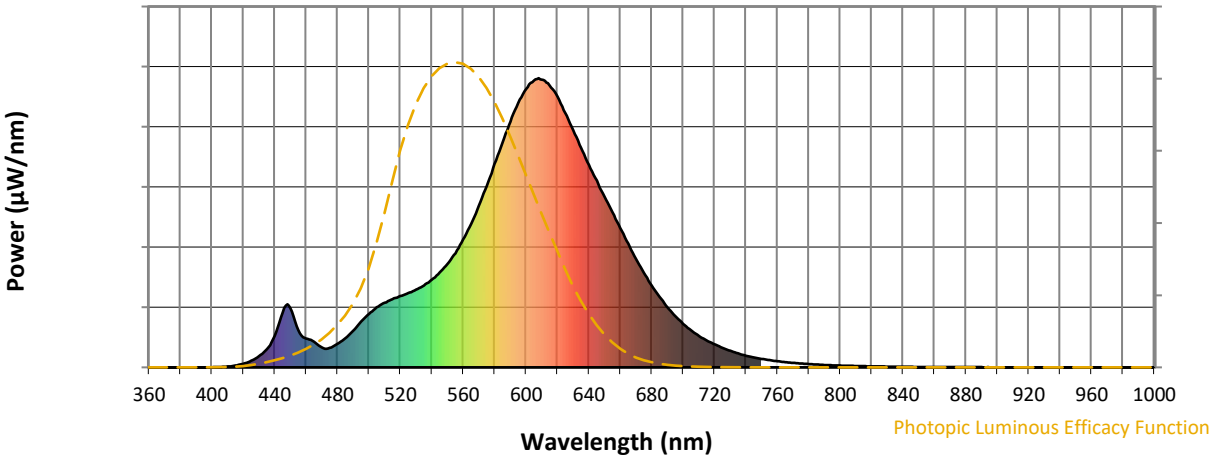


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

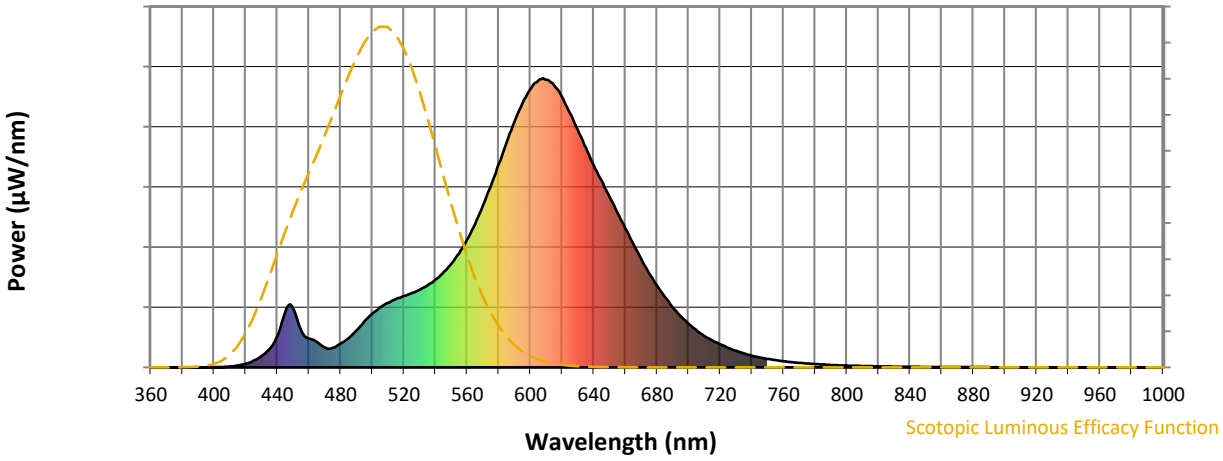


Photopic Lumens: NR

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

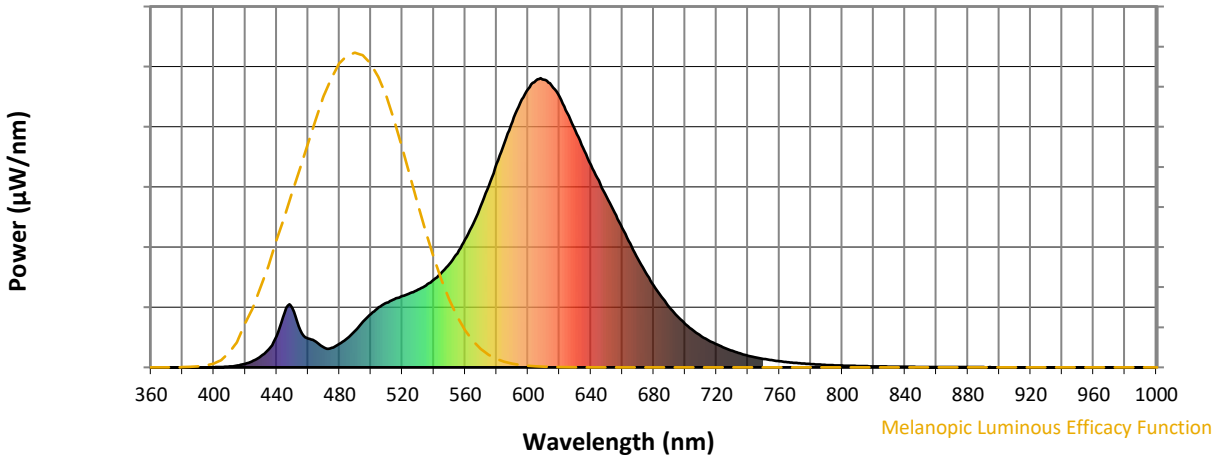


Scotopic Lumens: NR **S/P: 0.96**

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			

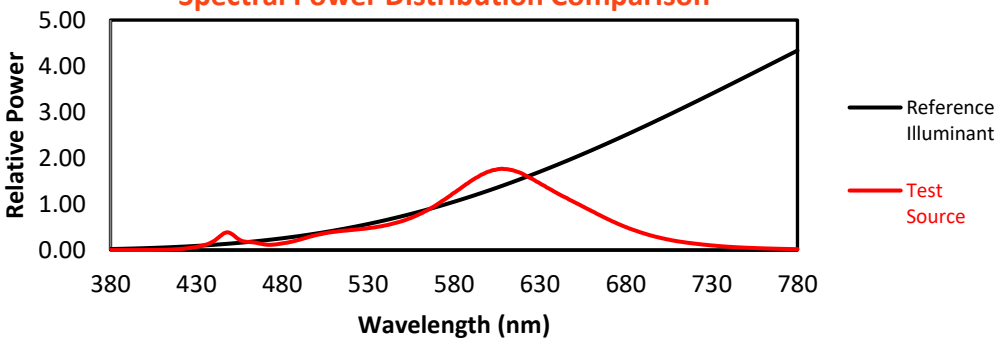
REPORT NUMBER: SP1-2501-332-7

TM-30-18

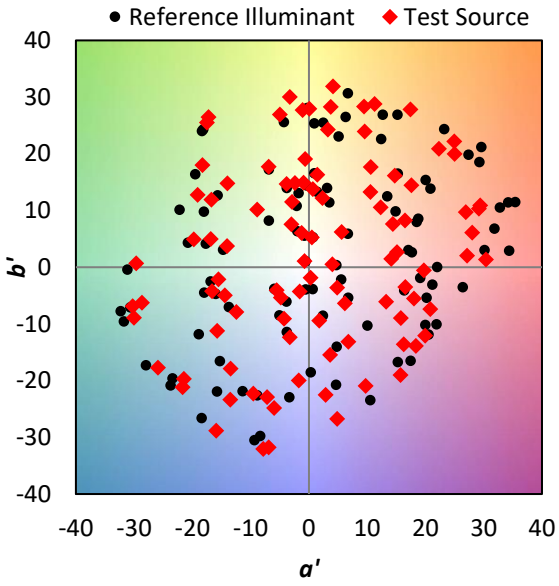
Summary

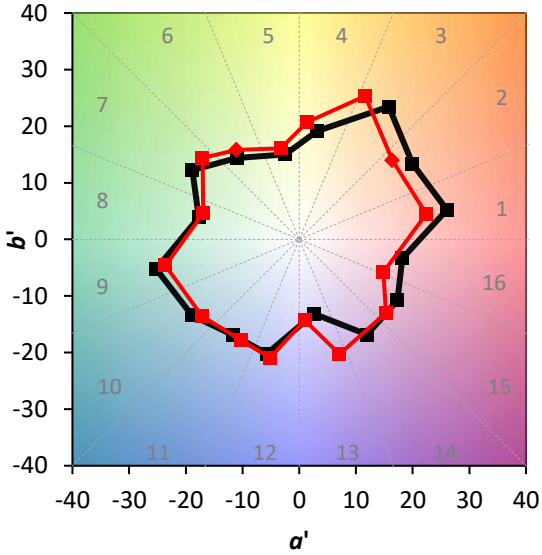
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

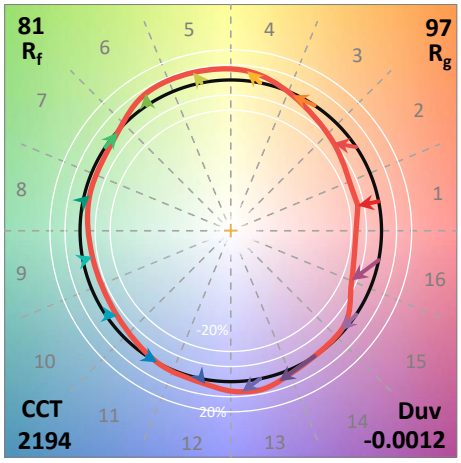
Spectral Power Distribution Comparison

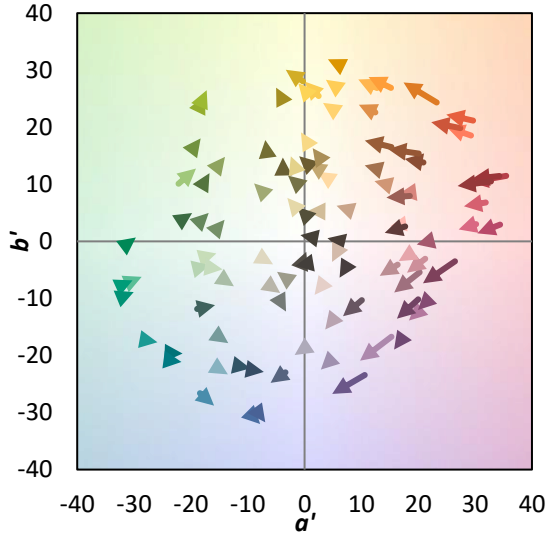


Color Vector Graphics







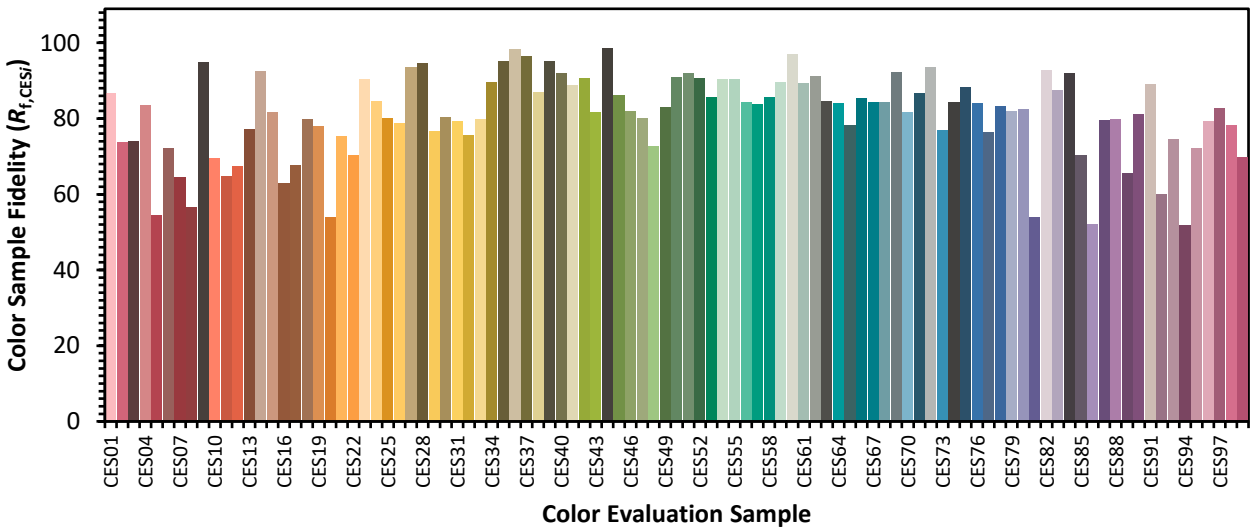


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

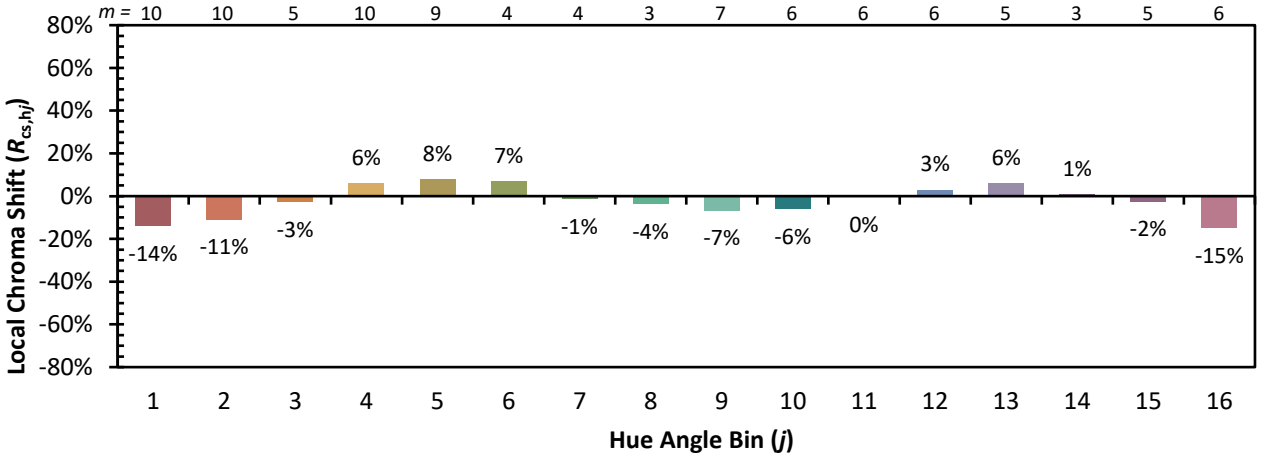
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

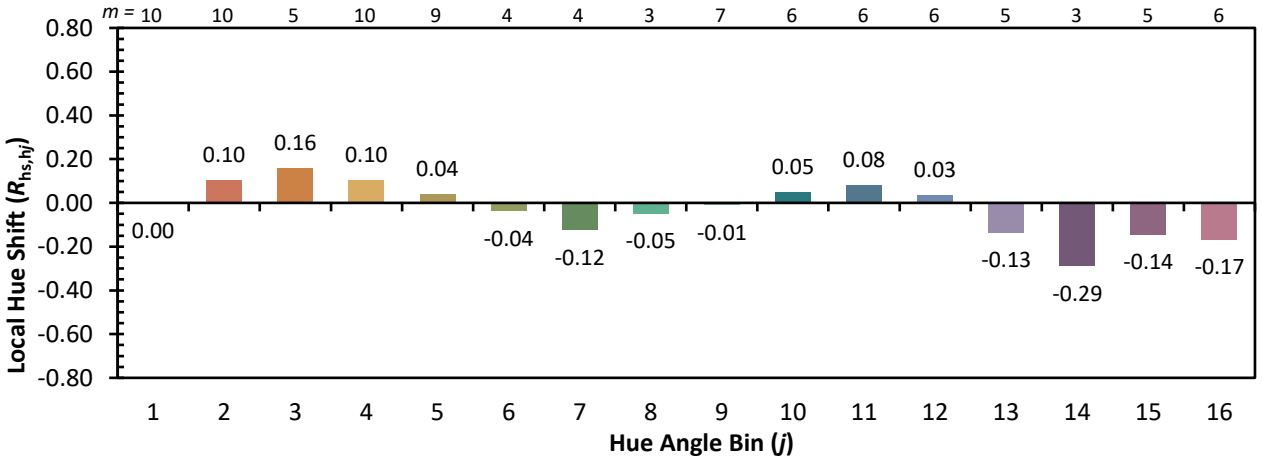


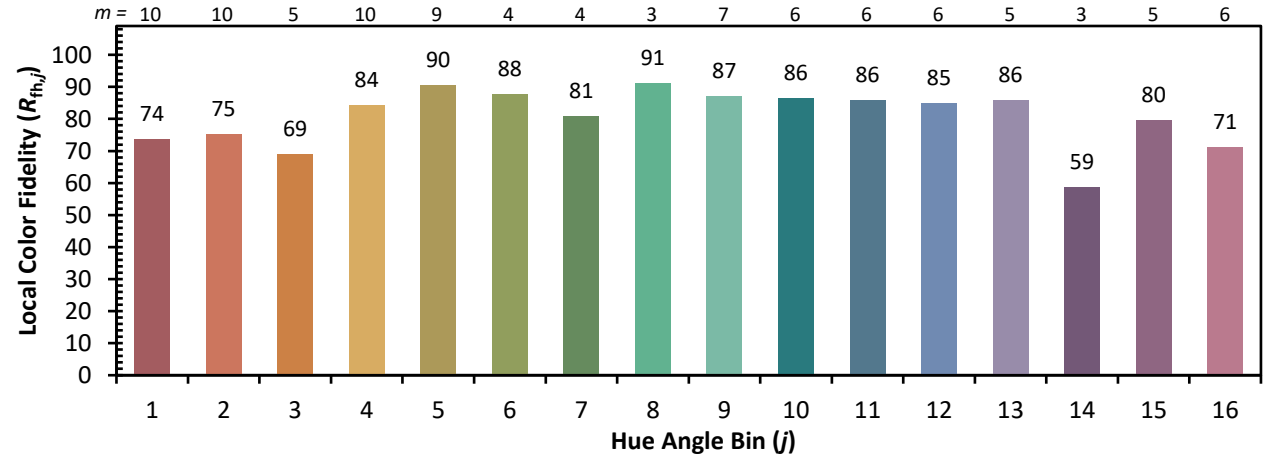
REPORT NUMBER: SP1-2501-332-7

TM-30-18

Color Rendition by Hue-Angle Bin



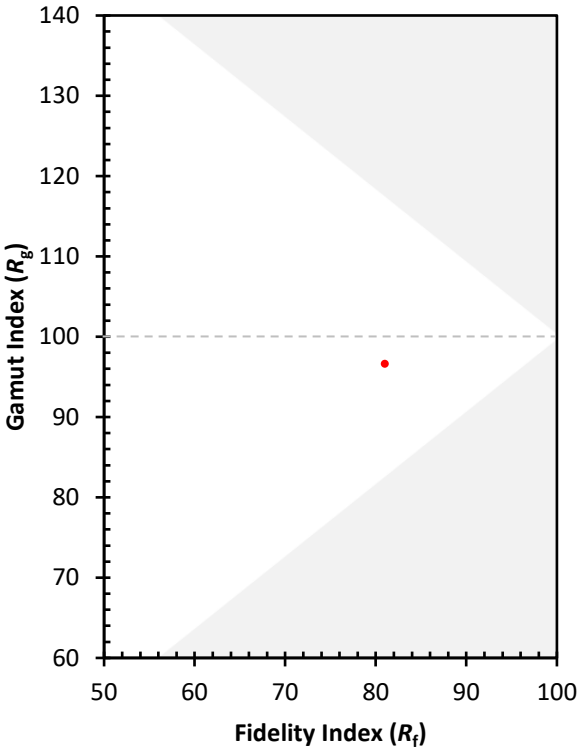


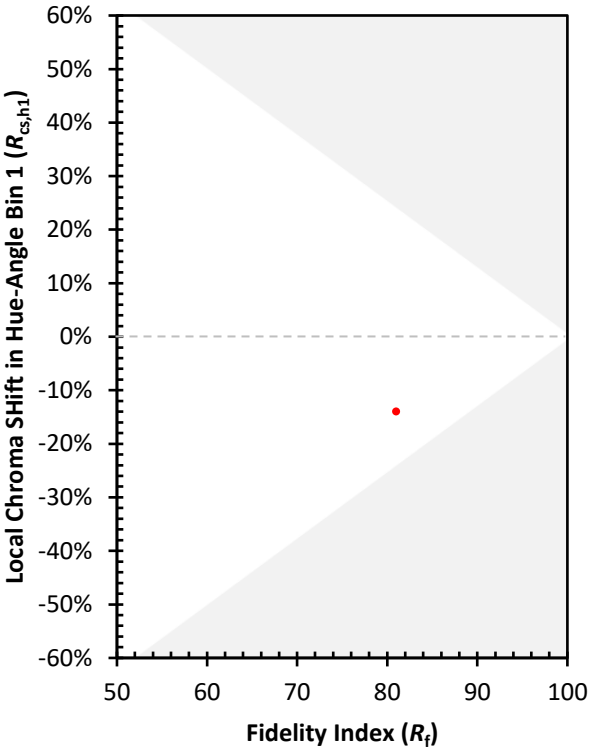


REPORT NUMBER: SP1-2501-332-7

TM-30-18

Measure Comparisons





(END OF REPORT)