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: P1046604

Luminaire Tested: **FFX-CLB-20-727-U-FR-T3-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:	P1046604
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2718.9 lumens
Efficiency:	N/A
Efficacy:	137.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - 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

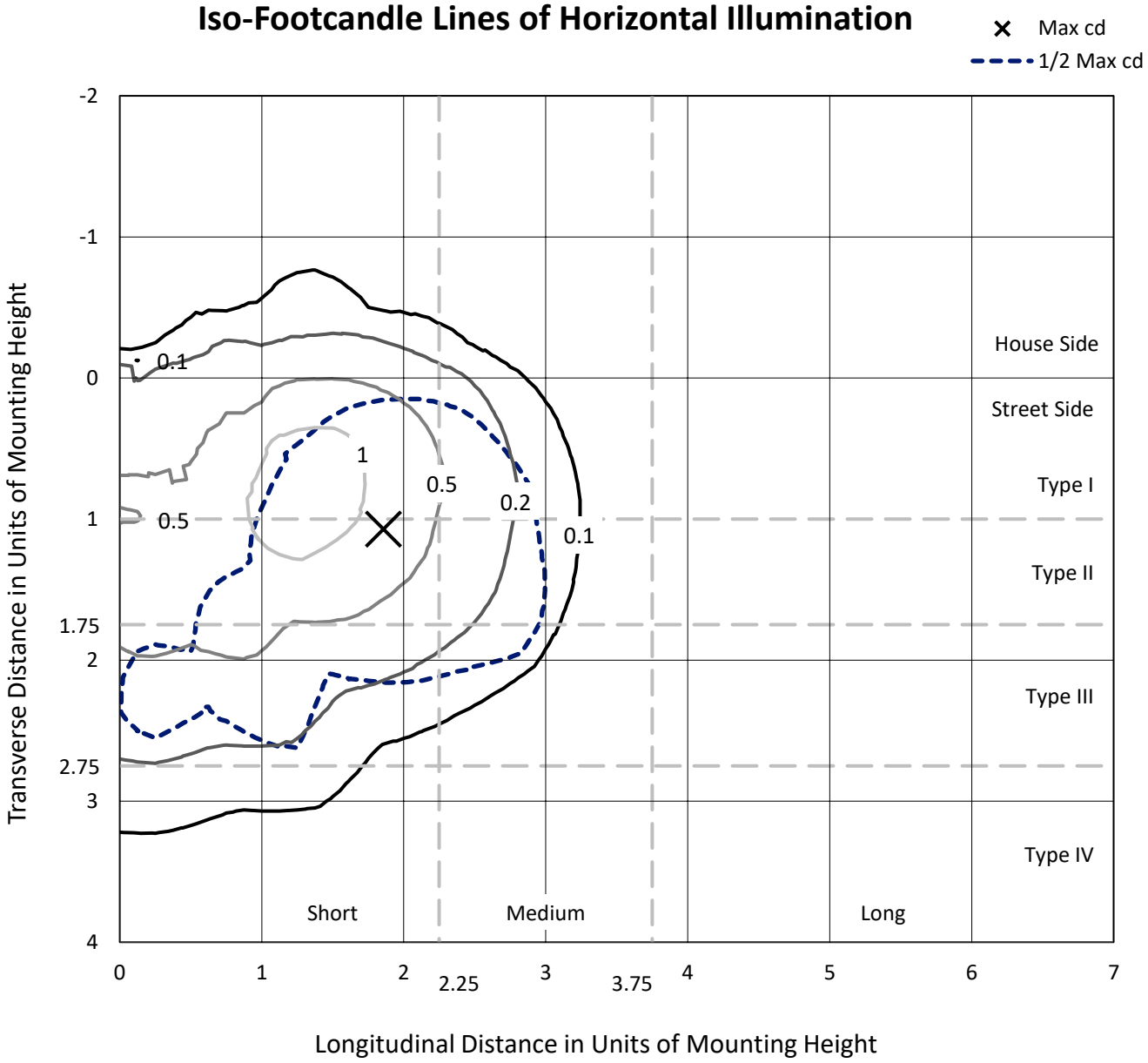


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



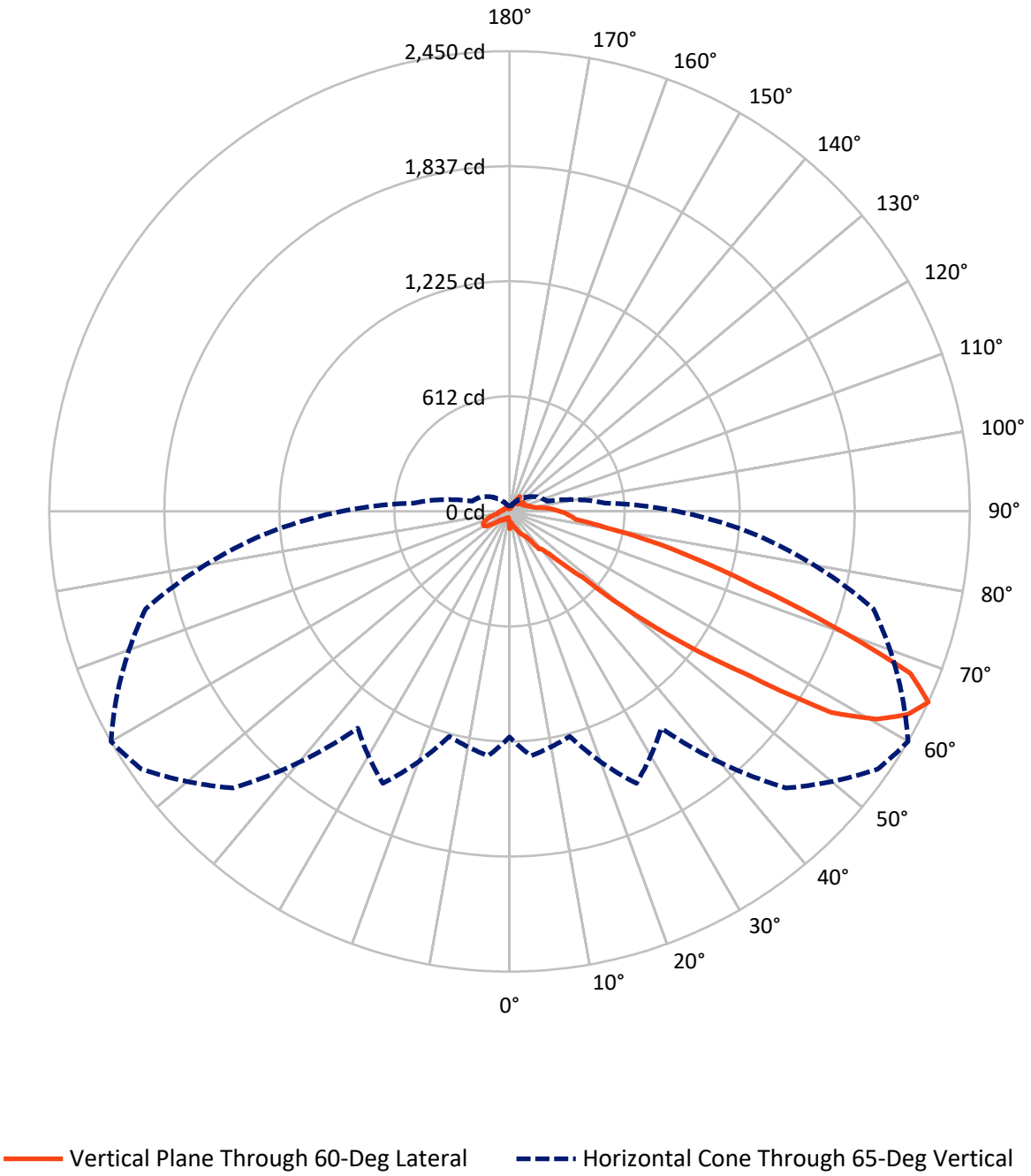
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

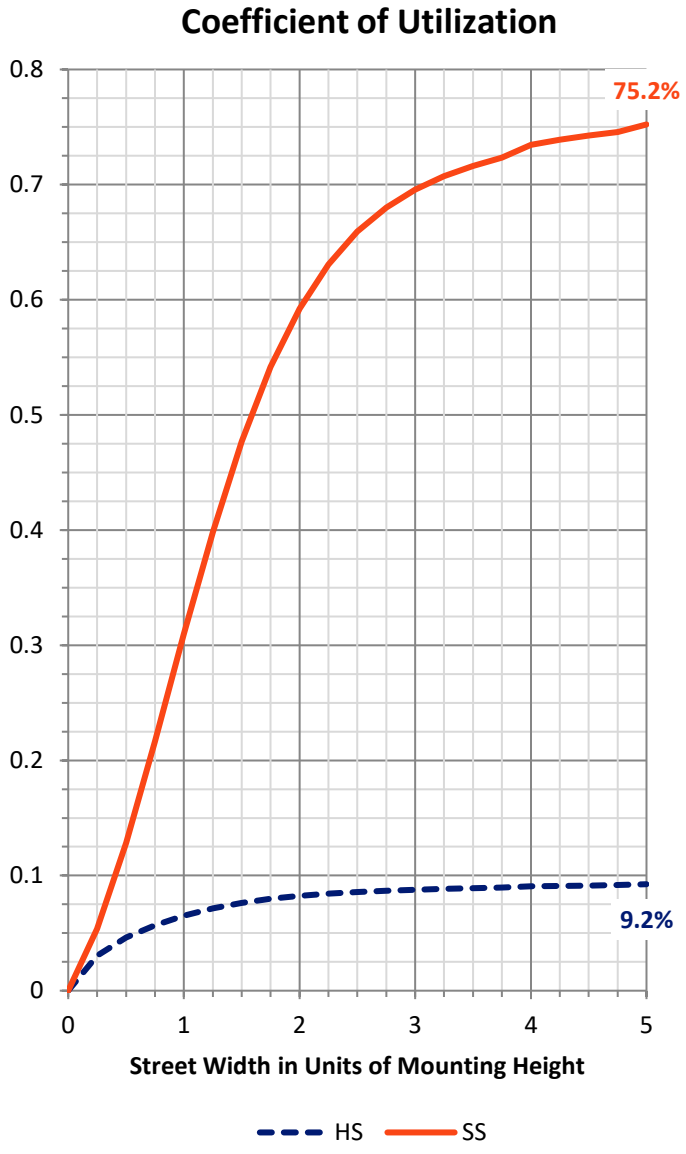
REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	263.6	85.1	348.7
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	2118.7	251.5	2370.2
	% Fixture	77.9	9.2	87.2
Total	Lumens	2382.3	336.6	2718.9
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.2
10°-20°	17.4	0.6
20°-30°	37.2	1.4
30°-40°	76.4	2.8
40°-50°	178.9	6.6
50°-60°	559.7	20.6
60°-70°	876.3	32.2
70°-80°	463.6	17.1
80°-90°	167.9	6.2
90°-100°	101.2	3.7
100°-110°	63.4	2.3
110°-120°	51.2	1.9
120°-130°	42.8	1.6
130°-140°	31.1	1.1
140°-150°	28.6	1.1
150°-160°	11.9	0.4
160°-170°	4.8	0.2
170°-180°	1.5	0.1
0°-90°	2382.3	87.6
0°-180°	2718.9	100.0



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

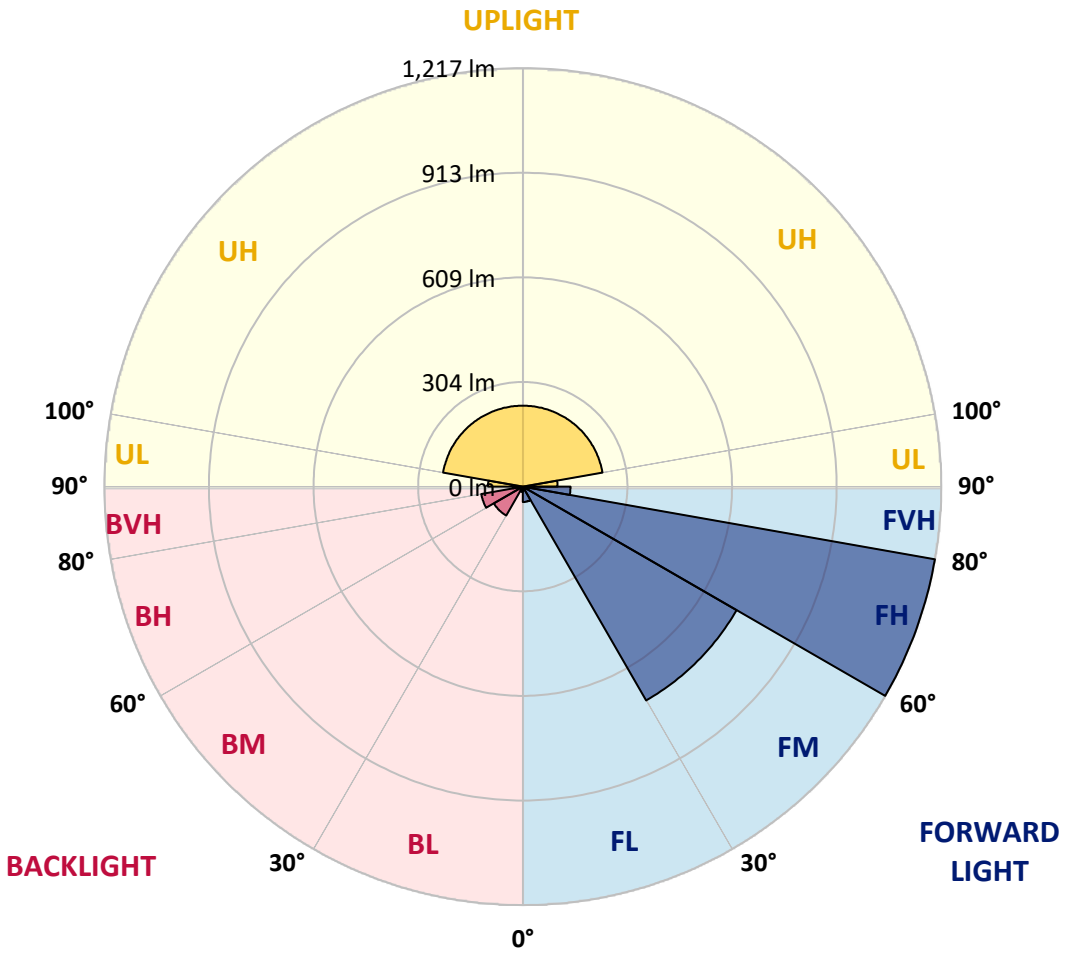
Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	44.8	1.6			
FM	(30°-60°)	718.0	26.4			
FH	(60°-80°)	1217.2	44.8			G1/1800
FVH	(80°-90°)	138.7	5.1			G2/225
BL	(0°-30°)	14.8	0.5	B0/110		
BM	(30°-60°)	97.0	3.6	B0/220		
BH	(60°-80°)	122.7	4.5	B1/500		G1/500
BVH	(80°-90°)	29.2	1.1			G1/100
UL	(90°-100°)	101.2	3.7		U3/500	
UH	(100°-180°)	235.4	8.7		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
2.5°	50.9	52.9	64.4	76.4	79.7	72.4	62.6	63.8	69.2	94.9	106.2
5°	59.7	60.3	59.3	60.7	69.0	79.5	73.4	66.2	56.7	41.0	40.6
7.5°	68.6	68.6	68.2	63.2	57.5	55.7	61.0	62.0	61.0	50.9	43.9
10°	74.8	74.8	74.6	75.0	75.4	73.4	64.6	61.2	57.7	53.3	51.3
12.5°	90.7	91.1	93.7	92.3	87.1	81.7	82.7	81.7	76.4	67.0	59.3
15°	111.0	111.8	112.2	107.0	98.6	88.7	82.3	80.7	79.7	74.4	66.6
17.5°	121.5	121.1	116.3	111.0	105.6	98.4	92.5	90.1	86.5	79.7	71.4
20°	120.3	120.3	115.5	114.3	114.7	110.4	102.8	99.8	95.8	89.5	78.0
22.5°	123.7	123.9	120.9	121.9	126.3	121.9	114.5	112.6	108.8	99.6	87.9
25°	136.6	136.6	133.2	131.8	135.6	134.0	129.9	127.5	122.1	111.0	90.3
27.5°	148.3	147.6	144.4	144.8	141.2	140.4	139.4	138.4	133.6	115.9	91.5
30°	157.5	157.5	154.7	156.5	148.9	150.1	146.6	149.3	143.2	122.7	96.0
32.5°	165.8	167.0	166.0	168.4	159.5	164.7	158.5	161.5	157.7	134.8	109.0
35°	185.1	186.5	191.1	197.1	186.1	191.5	181.8	185.9	182.2	162.3	133.8
37.5°	261.7	259.5	249.6	239.8	229.3	251.4	249.0	252.9	247.0	215.0	169.0
40°	263.3	262.1	260.1	253.9	234.1	255.9	256.9	264.1	282.0	230.7	182.7
42.5°	270.0	271.4	295.1	298.1	283.2	317.2	307.8	308.2	369.5	273.2	235.8
45°	312.4	312.4	320.0	323.7	319.4	417.0	415.6	403.7	480.8	340.8	277.4
47.5°	358.1	359.5	373.5	410.8	435.3	527.8	555.2	526.6	627.8	447.2	382.2
50°	492.0	494.8	538.1	570.9	616.8	772.6	907.6	864.0	1022.9	682.3	575.9
52.5°	588.8	623.4	647.3	770.8	788.7	1027.9	1202.1	1187.2	1293.8	944.4	699.0
55°	700.8	754.7	770.6	962.1	994.1	1326.4	1507.1	1533.6	1540.1	1220.8	821.7
57.5°	885.1	968.6	971.6	1174.0	1179.6	1672.0	1959.7	2018.0	1951.6	1542.5	1015.2
60°	1037.0	1134.9	1102.1	1377.7	1322.4	1951.6	2179.9	2245.9	2122.6	1817.5	1150.4
62.5°	1131.1	1225.5	1182.4	1520.8	1408.3	2071.5	2311.3	2379.1	2243.5	1963.7	1254.4
65°	1201.3	1306.1	1239.7	1597.2	1408.1	2082.2	2392.4	2449.7	2304.5	2005.7	1285.0
67.5°	1202.7	1296.7	1213.8	1570.0	1314.4	1912.2	2265.8	2301.9	2140.9	1856.7	1193.9
70°	1051.3	1119.0	1026.9	1325.0	1060.3	1451.2	1769.4	1812.4	1650.3	1427.4	925.1
72.5°	879.7	906.2	814.9	1059.7	830.4	1098.3	1352.6	1368.7	1283.0	1069.2	715.1
75°	690.8	680.7	633.4	790.1	631.4	778.1	1062.3	1046.8	999.6	786.9	545.7
77.5°	460.9	442.1	444.4	542.1	441.1	514.8	773.5	774.1	757.6	583.4	389.2
80°	281.2	281.8	274.0	343.8	291.1	342.2	533.1	515.6	516.0	384.8	272.4
82.5°	219.9	223.5	213.8	247.8	229.3	272.2	348.4	358.1	347.6	282.6	200.6
85°	216.0	219.1	209.0	230.1	217.9	260.1	327.7	326.9	321.4	262.1	189.7
87.5°	197.9	201.6	194.1	208.8	199.5	240.8	301.7	297.7	292.3	246.6	181.0
90°	167.0	174.0	168.8	187.1	174.2	207.2	262.3	260.7	257.9	217.9	161.1
92.5°	151.9	153.3	149.5	166.0	151.7	181.6	232.9	227.9	221.7	189.1	137.2
95°	136.0	135.4	131.8	145.2	132.4	151.9	197.9	190.3	187.1	159.7	114.5
97.5°	109.0	109.2	107.4	116.5	107.4	121.3	148.5	145.8	139.4	119.3	87.7
100°	95.5	96.0	94.9	102.0	94.3	103.2	123.7	123.1	117.9	101.8	76.6
102.5°	90.3	90.5	92.1	96.4	89.1	95.6	112.8	112.9	109.6	94.9	72.0
105°	86.7	86.5	87.7	91.3	84.9	89.7	105.4	105.4	100.6	89.5	68.2
107.5°	83.9	83.5	85.5	88.5	84.1	85.5	97.6	98.4	93.9	83.3	64.8
110°	80.7	80.5	83.9	86.1	81.9	82.1	92.7	92.1	87.9	81.1	63.8

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

Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	81.9	83.1	86.9	80.7	74.6	75.0	83.1	*84.1*	81.1	74.2	60.7
115°	80.9	82.1	87.1	78.3	69.2	71.6	78.3	*79.1*	74.8	69.0	57.1
117.5°	77.4	77.8	80.7	78.5	69.0	71.8	75.2	*76.6*	73.4	69.0	57.7
120°	91.5	88.5	88.5	85.1	74.4	79.3	85.7	*86.9*	83.9	75.8	57.5
122.5°	84.1	83.1	83.3	78.9	73.6	77.8	85.3	*87.3*	84.7	76.6	57.5
125°	66.2	66.4	65.4	66.8	64.6	66.0	70.0	*73.2*	70.8	66.4	54.7
127.5°	60.3	60.1	58.9	64.8	58.1	60.8	64.6	*66.4*	64.0	59.1	49.5
130°	58.7	58.7	62.0	68.2	64.2	63.0	61.6	*63.4*	63.0	59.9	49.5
132.5°	54.9	55.1	60.1	68.0	66.4	60.8	55.9	*56.9*	58.7	59.5	52.3
135°	54.9	54.3	52.7	54.5	53.5	54.9	53.5	*54.9*	55.3	54.9	45.7
137.5°	58.5	58.1	54.1	51.7	51.9	56.3	56.5	*57.1*	56.5	53.3	44.3
140°	57.3	55.9	53.1	52.1	52.3	56.9	58.7	*59.1*	58.5	52.3	41.8
142.5°	55.3	55.3	56.1	57.3	59.1	80.3	74.8	*79.9*	80.1	73.8	43.0
145°	79.3	80.1	77.8	75.2	81.5	96.6	90.9	*96.4*	100.2	93.3	59.3
147.5°	71.6	72.8	71.4	69.2	77.6	77.8	74.2	*74.8*	75.8	77.4	59.9
150°	50.7	49.3	51.5	49.9	58.3	57.9	52.9	*54.1*	56.3	56.5	47.7
152.5°	37.6	37.0	36.6	36.4	42.0	38.6	36.8	*36.2*	36.6	36.4	34.2
155°	33.2	33.2	33.0	34.0	37.0	34.6	32.8	*33.0*	32.0	31.4	30.2
157.5°	25.9	25.3	25.9	27.6	28.8	26.6	26.1	*25.7*	25.5	24.5	24.9
160°	21.3	21.3	21.7	23.1	23.9	22.3	21.1	*20.7*	20.7	20.3	21.7
162.5°	18.1	18.1	18.5	18.9	19.3	18.5	18.1	*18.1*	17.9	17.9	19.3
165°	15.1	15.1	15.3	16.1	16.3	15.9	15.7	*15.9*	15.9	16.7	17.9
167.5°	13.9	13.9	14.1	14.5	14.7	14.5	15.1	*15.7*	16.3	17.1	17.5
170°	13.3	13.3	13.5	13.7	14.1	14.5	15.7	*16.1*	16.3	16.1	16.1
172.5°	13.7	13.7	13.7	14.1	14.5	15.5	16.5	*16.5*	16.1	15.7	15.7
175°	13.9	13.7	13.9	14.3	14.9	15.5	15.9	*16.3*	16.3	16.1	16.1
177.5°	13.7	13.7	13.9	14.1	14.1	14.1	14.3	*14.5*	14.5	14.7	14.9
180°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	*13.5*	13.5	13.5	13.5

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

Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
2.5°	104.0	98.2	72.8	48.3	59.3	86.5	100.8	94.5	70.4	40.6	34.4
5°	42.6	47.7	55.7	53.3	47.9	39.4	29.6	29.4	40.8	49.5	50.3
7.5°	41.0	37.6	35.6	39.4	36.8	25.5	21.5	17.9	19.1	28.0	26.8
10°	50.5	49.3	45.9	37.6	27.6	22.9	21.5	21.9	23.5	21.1	20.9
12.5°	56.3	53.3	45.9	43.5	37.0	26.2	21.7	20.1	21.5	26.8	29.0
15°	61.6	57.3	48.1	40.4	33.2	27.2	23.3	20.3	18.1	15.7	15.5
17.5°	66.4	60.8	50.7	42.0	33.0	27.2	22.5	17.7	15.3	14.5	14.5
20°	72.2	67.0	54.1	43.7	33.2	26.6	21.7	17.5	15.3	14.5	14.5
22.5°	79.9	71.4	57.7	44.5	33.6	26.4	21.3	17.9	15.9	14.7	14.7
25°	82.1	75.6	60.1	47.1	35.2	27.4	22.3	18.5	16.3	15.3	15.1
27.5°	83.7	78.7	64.6	49.3	37.0	29.4	23.9	19.3	16.7	15.7	15.5
30°	89.9	85.5	69.6	52.5	39.4	31.4	25.3	20.5	17.5	15.9	15.5
32.5°	103.0	96.8	77.0	55.7	42.4	33.6	27.0	21.7	18.3	16.3	15.9
35°	128.1	123.1	96.4	62.2	45.5	36.4	29.2	23.3	19.3	16.9	16.7
37.5°	157.1	149.3	117.1	72.4	47.7	38.8	31.4	24.9	20.3	17.9	17.5
40°	162.1	140.0	103.8	66.0	48.1	40.0	33.4	26.6	21.5	18.7	18.1
42.5°	203.2	171.8	120.3	68.2	49.1	40.0	33.8	27.8	22.7	19.3	18.9
45°	215.0	171.2	119.7	76.2	53.9	41.2	34.0	28.4	23.7	20.3	19.7
47.5°	274.0	210.0	121.5	80.9	58.9	45.3	35.4	28.8	23.9	20.9	20.7
50°	391.7	280.8	146.2	97.6	70.6	52.9	39.8	30.2	24.3	21.5	21.3
52.5°	483.8	333.5	156.9	116.9	89.9	67.2	47.5	33.8	25.1	21.7	21.3
55°	575.1	397.7	176.8	138.0	107.0	80.9	59.1	39.6	27.0	22.1	21.7
57.5°	714.3	477.5	201.4	158.7	126.9	93.9	66.0	44.7	29.4	22.5	21.9
60°	798.8	505.7	204.0	169.2	138.2	103.0	68.4	46.7	32.4	24.1	23.1
62.5°	874.8	531.1	205.8	174.0	140.2	104.0	68.6	45.1	33.0	26.4	25.3
65°	*894.5*	*510.5*	*207.6*	*175.6*	*136.6*	*98.2*	*66.0*	*43.5*	*31.4*	*28.6*	*28.4*
67.5°	849.9	457.8	195.3	169.6	127.1	88.3	59.5	41.4	30.6	27.8	28.4
70°	662.2	363.5	179.0	156.3	109.8	74.6	52.9	38.6	30.2	26.4	25.9
72.5°	521.8	309.2	180.8	148.9	92.7	66.0	46.7	35.2	28.6	25.9	25.5
75°	406.5	259.1	174.0	128.3	75.2	56.3	41.0	31.4	26.6	24.9	24.7
77.5°	298.1	205.6	143.6	98.8	62.0	46.9	35.8	28.8	25.3	23.7	23.5
80°	195.5	145.4	100.0	78.9	53.5	42.4	32.6	27.0	24.3	22.9	22.7
82.5°	166.2	129.1	88.9	72.6	49.5	40.8	32.0	26.4	24.1	22.5	22.3
85°	160.3	132.2	90.9	75.2	47.1	39.0	31.0	26.1	23.5	22.1	21.9
87.5°	150.5	119.7	87.9	67.4	43.5	35.6	29.0	25.1	22.5	21.3	20.9
90°	134.0	102.4	75.6	57.9	41.4	33.4	27.4	23.9	21.9	20.7	20.3
92.5°	108.2	77.8	59.5	51.1	40.4	33.2	27.2	23.9	21.9	20.7	20.3
95°	90.9	66.6	53.3	46.7	37.6	31.4	26.1	23.1	21.3	20.1	20.1
97.5°	72.0	55.7	47.5	42.0	33.8	28.6	24.7	22.1	20.5	19.3	19.3
100°	63.8	51.7	45.1	39.4	32.0	27.0	24.1	21.5	20.1	18.7	18.7
102.5°	60.7	50.1	44.5	37.4	30.6	26.1	23.1	20.7	19.5	18.1	18.1
105°	58.7	49.5	44.1	36.4	29.2	24.9	22.1	19.7	18.7	17.7	17.5
107.5°	56.7	48.7	44.7	35.8	28.0	24.1	22.1	19.5	18.3	17.5	17.5
110°	55.7	49.1	44.5	35.2	27.6	23.9	21.9	19.7	18.7	17.9	17.7

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

Scaled Data Report

REPORT NUMBER: P1046604
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	53.1	46.9	42.6	33.4	27.0	23.3	21.1	19.5	18.1	17.3	17.1
115°	50.5	43.2	39.0	31.8	25.7	22.5	20.5	18.9	17.5	16.9	16.9
117.5°	51.5	42.2	35.8	31.2	25.3	21.9	20.1	18.5	17.3	16.9	16.7
120°	50.9	44.3	40.2	33.4	25.1	21.3	19.7	18.1	17.1	16.9	16.9
122.5°	48.7	47.9	44.1	34.0	24.3	21.5	20.1	18.7	17.7	17.1	17.1
125°	46.9	46.5	41.2	30.6	24.9	22.3	21.1	19.7	19.1	18.5	18.3
127.5°	43.4	39.0	34.2	29.4	25.3	22.7	21.5	20.7	20.1	19.1	18.9
130°	43.5	40.0	35.2	29.6	24.3	22.3	21.7	20.9	19.9	18.3	18.1
132.5°	47.3	43.5	35.0	27.4	23.3	22.3	21.9	20.9	18.7	16.9	16.7
135°	39.4	36.8	31.0	26.2	23.7	23.1	22.9	20.7	17.5	16.3	16.1
137.5°	38.4	34.6	29.8	26.4	24.7	23.5	22.7	19.9	16.3	15.1	14.7
140°	36.2	32.6	29.2	26.8	23.9	19.9	18.1	16.7	15.1	14.1	13.9
142.5°	36.2	32.8	27.6	23.7	20.7	18.5	17.5	16.3	14.5	13.1	12.7
145°	42.8	38.8	33.4	30.0	26.8	23.5	20.1	16.5	13.5	11.7	11.5
147.5°	48.5	43.7	39.6	34.0	28.8	23.3	18.5	14.5	12.3	11.5	11.5
150°	39.8	35.4	33.2	28.4	23.9	19.1	15.7	13.5	12.3	11.9	11.9
152.5°	29.8	25.1	23.5	20.9	18.1	15.7	14.1	12.9	12.5	12.3	12.3
155°	27.8	23.9	21.9	19.5	16.7	14.7	13.7	13.1	12.7	12.5	12.5
157.5°	24.3	22.1	19.5	17.7	15.7	14.3	13.7	13.3	12.9	12.7	12.7
160°	21.7	20.1	17.7	16.3	14.9	14.3	14.3	14.1	13.5	13.3	13.3
162.5°	19.5	18.9	16.7	15.5	14.9	15.1	16.1	15.9	14.9	14.1	13.9
165°	18.1	17.5	15.9	15.3	14.9	15.7	17.7	17.3	15.7	14.7	14.7
167.5°	17.3	16.9	15.7	15.1	15.3	16.9	18.7	18.9	17.5	16.1	15.9
170°	15.9	15.9	15.7	15.9	15.9	16.7	17.7	18.3	18.3	18.7	18.5
172.5°	15.7	15.9	16.5	16.5	16.3	16.5	17.3	18.3	18.9	19.5	19.7
175°	16.1	16.3	16.7	16.9	16.9	17.3	18.5	19.3	19.7	19.5	19.5
177.5°	14.9	15.1	15.3	16.1	16.5	16.9	18.1	18.5	18.9	19.3	19.3
180°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5

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: SP1-2501-332-8

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

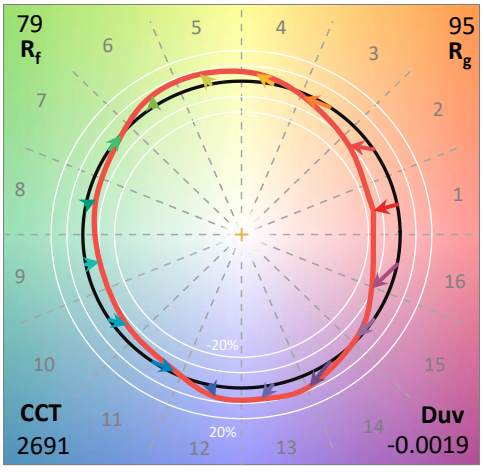
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

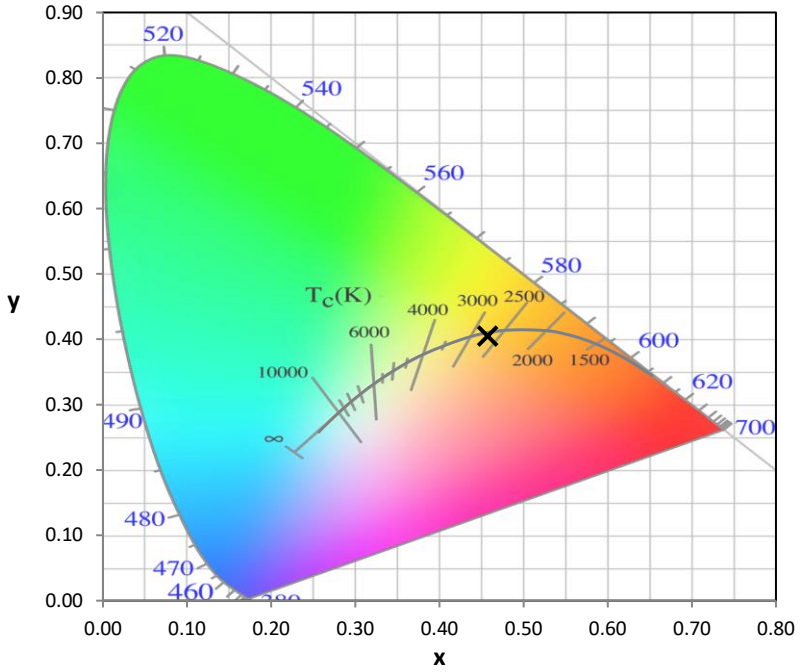
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

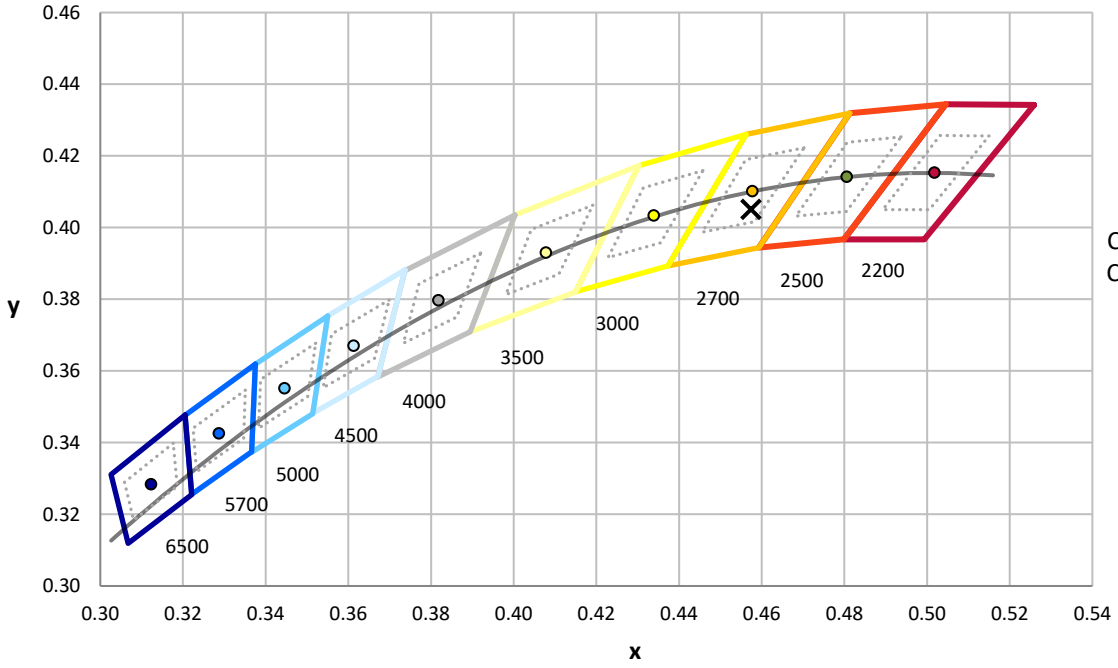
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

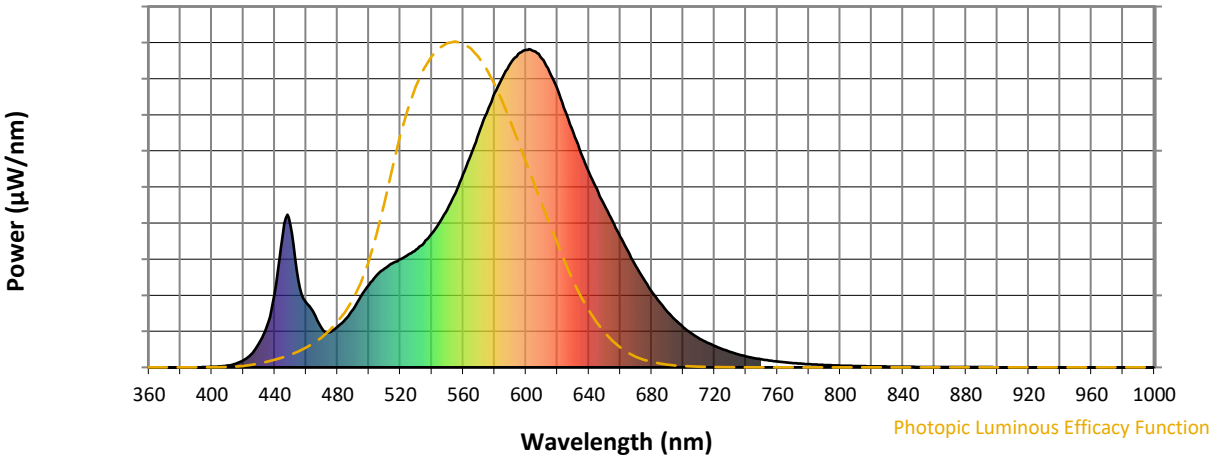


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

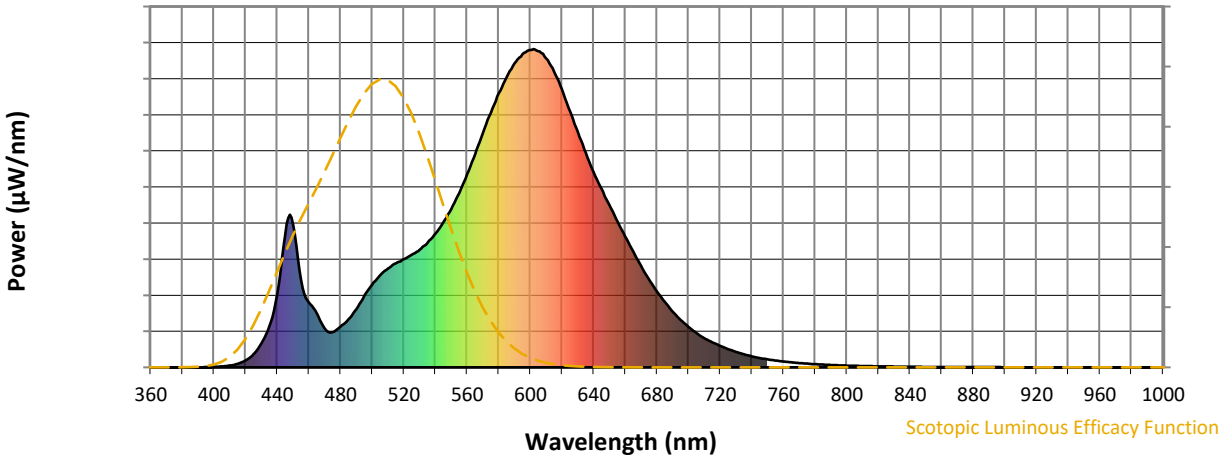


Photopic Lumens: NR

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

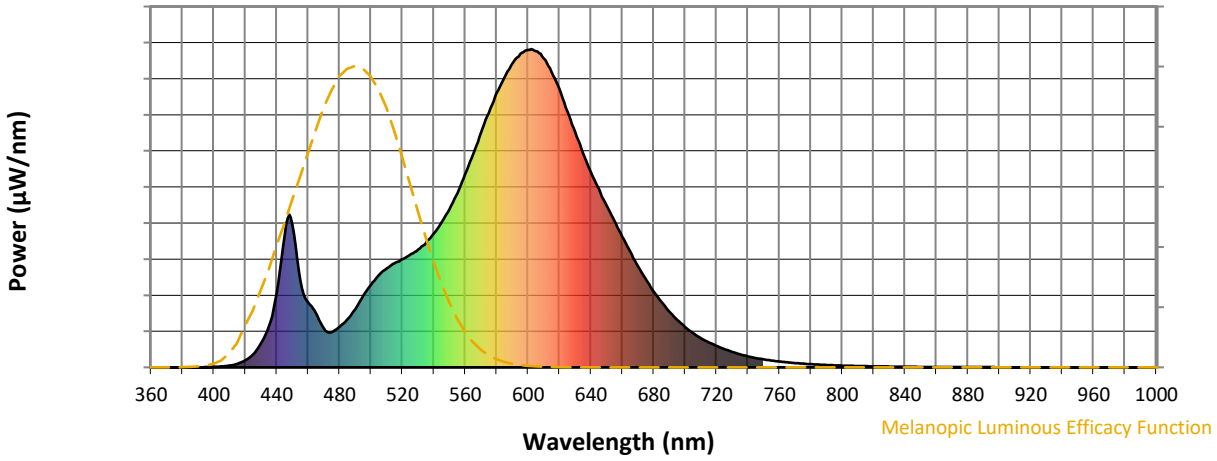


Scotopic Lumens: NR **S/P: 1.18**

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			

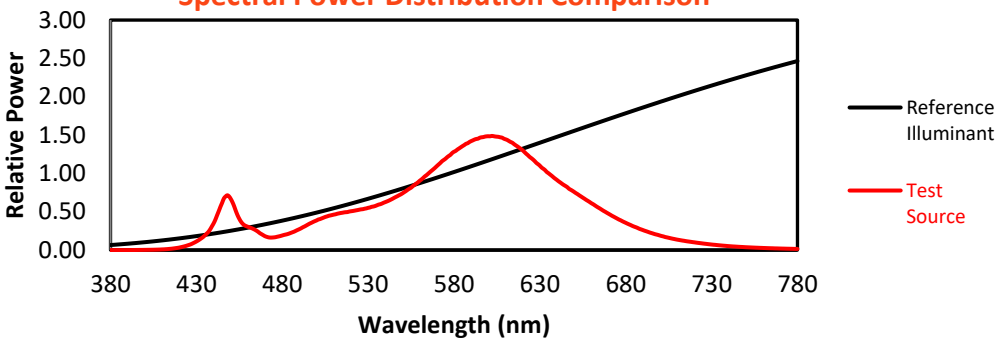
REPORT NUMBER: SP1-2501-332-8

TM-30-18

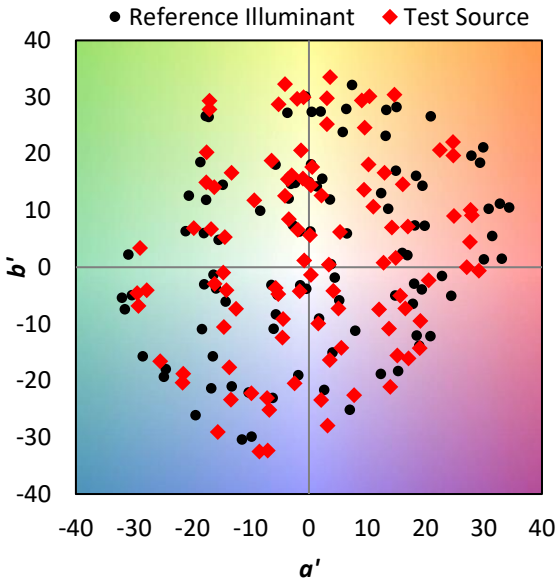
Summary

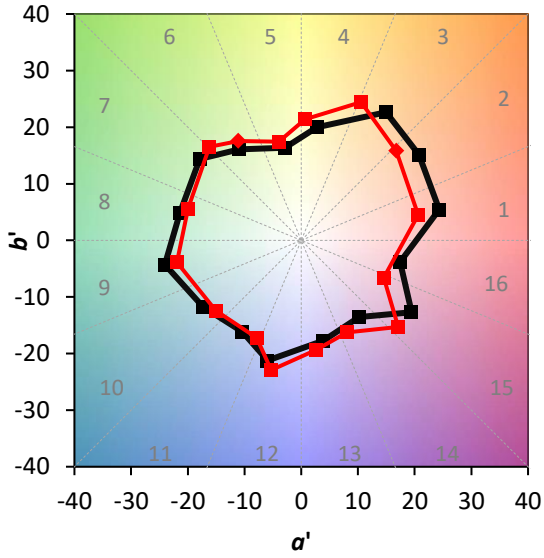
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

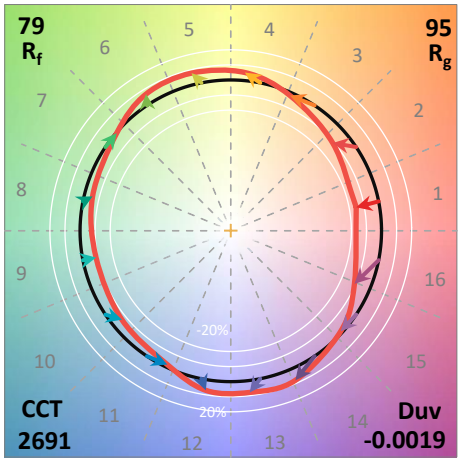
Spectral Power Distribution Comparison

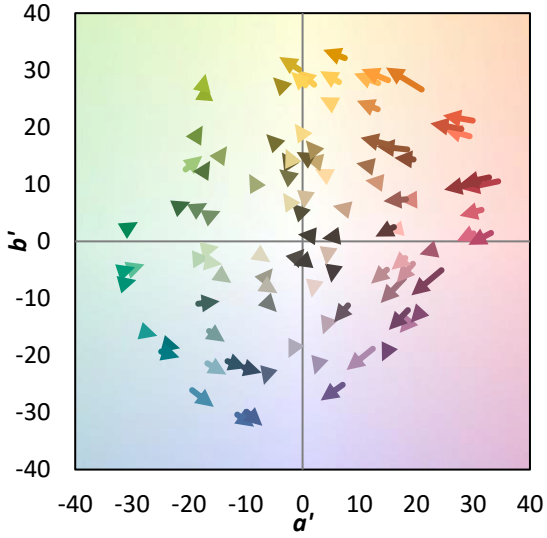


Color Vector Graphics







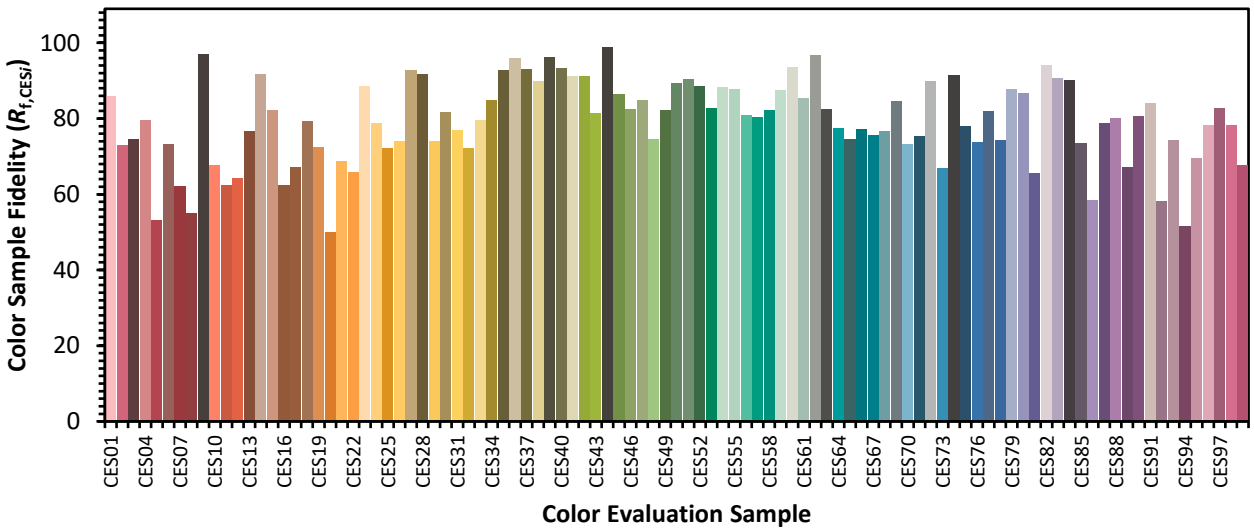


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

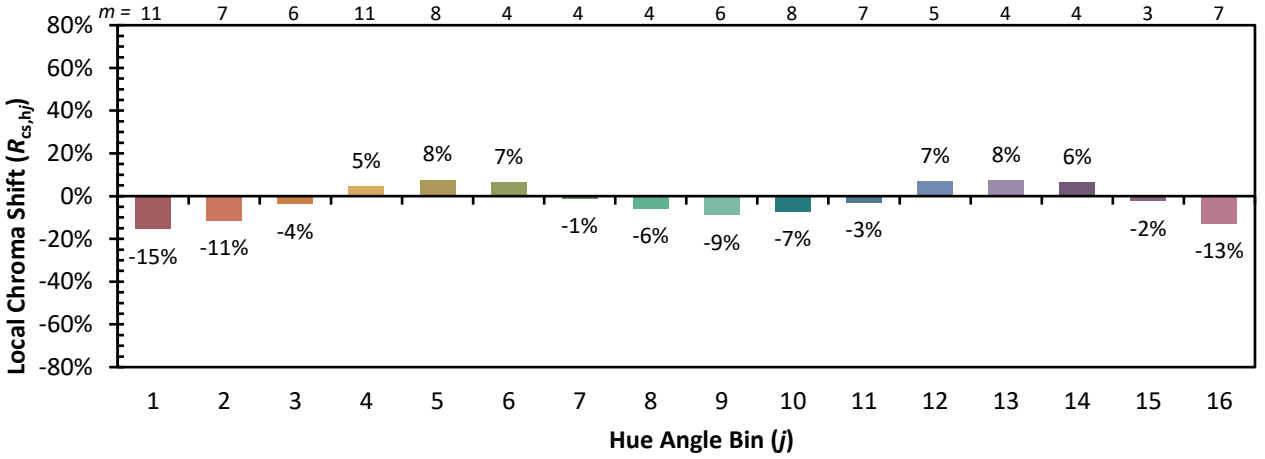
CES01 = 87	CES26 = 74	CES51 = 90	CES76 = 74
CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 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	

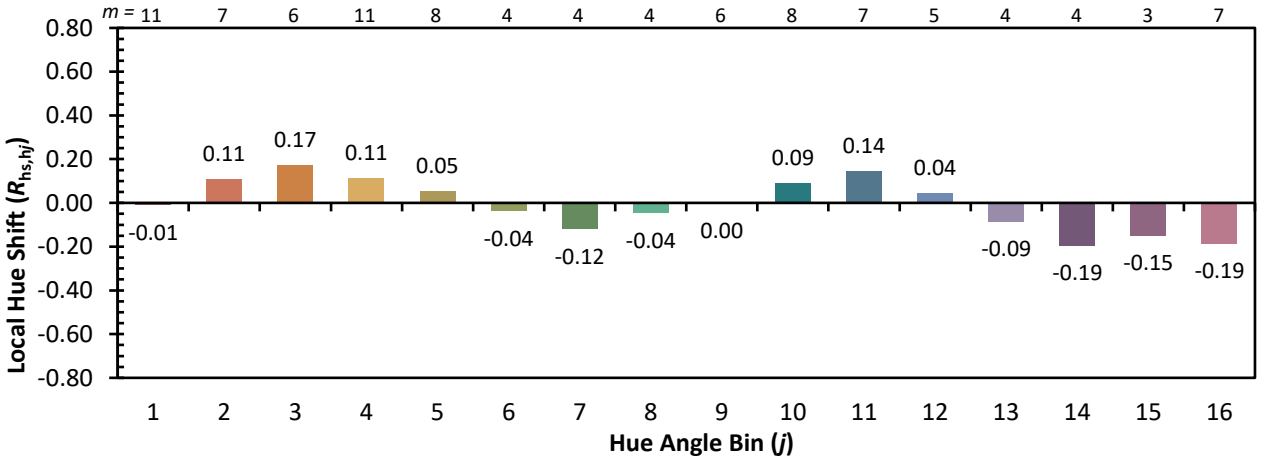


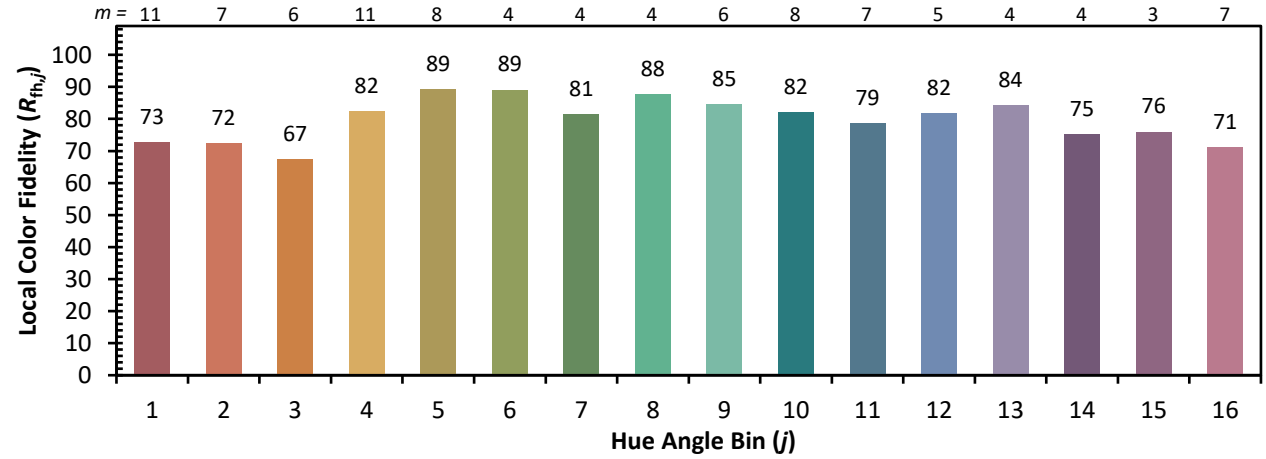
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



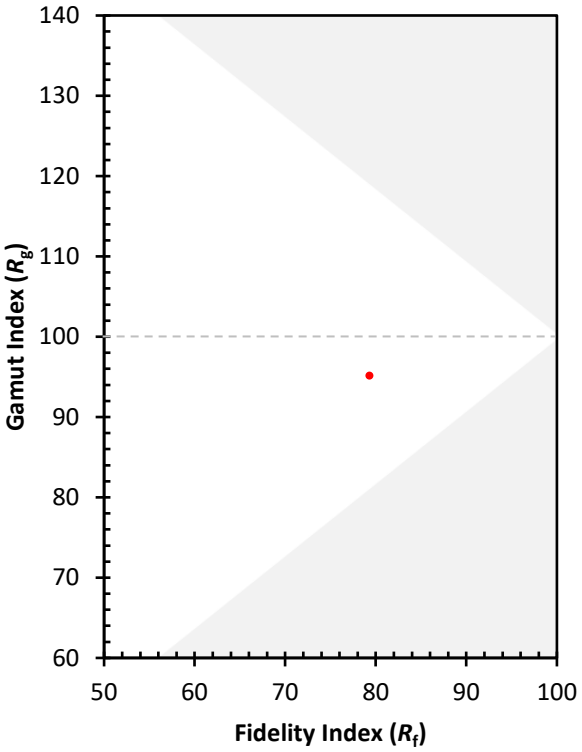


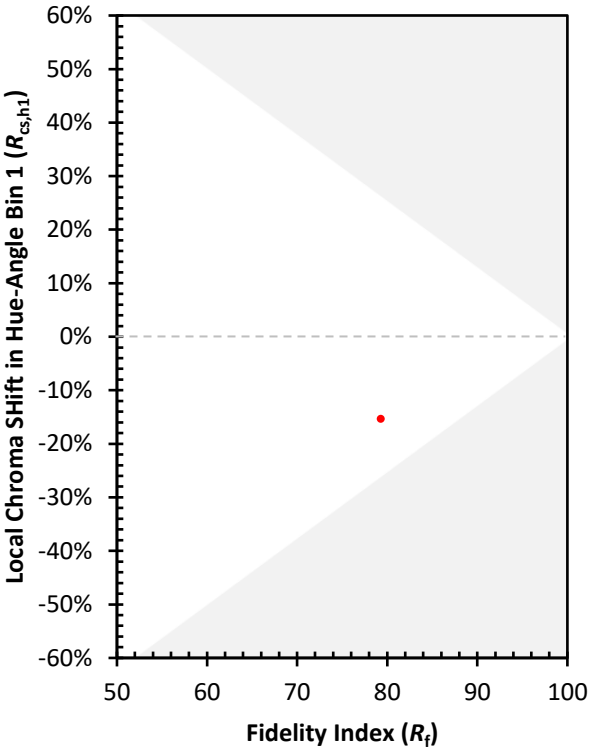


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)