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: P1046603

Luminaire Tested: **FFX-CLB-30-727-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:	P1046603
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-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:	4096.7 lumens
Efficiency:	N/A
Efficacy:	133.9 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):	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

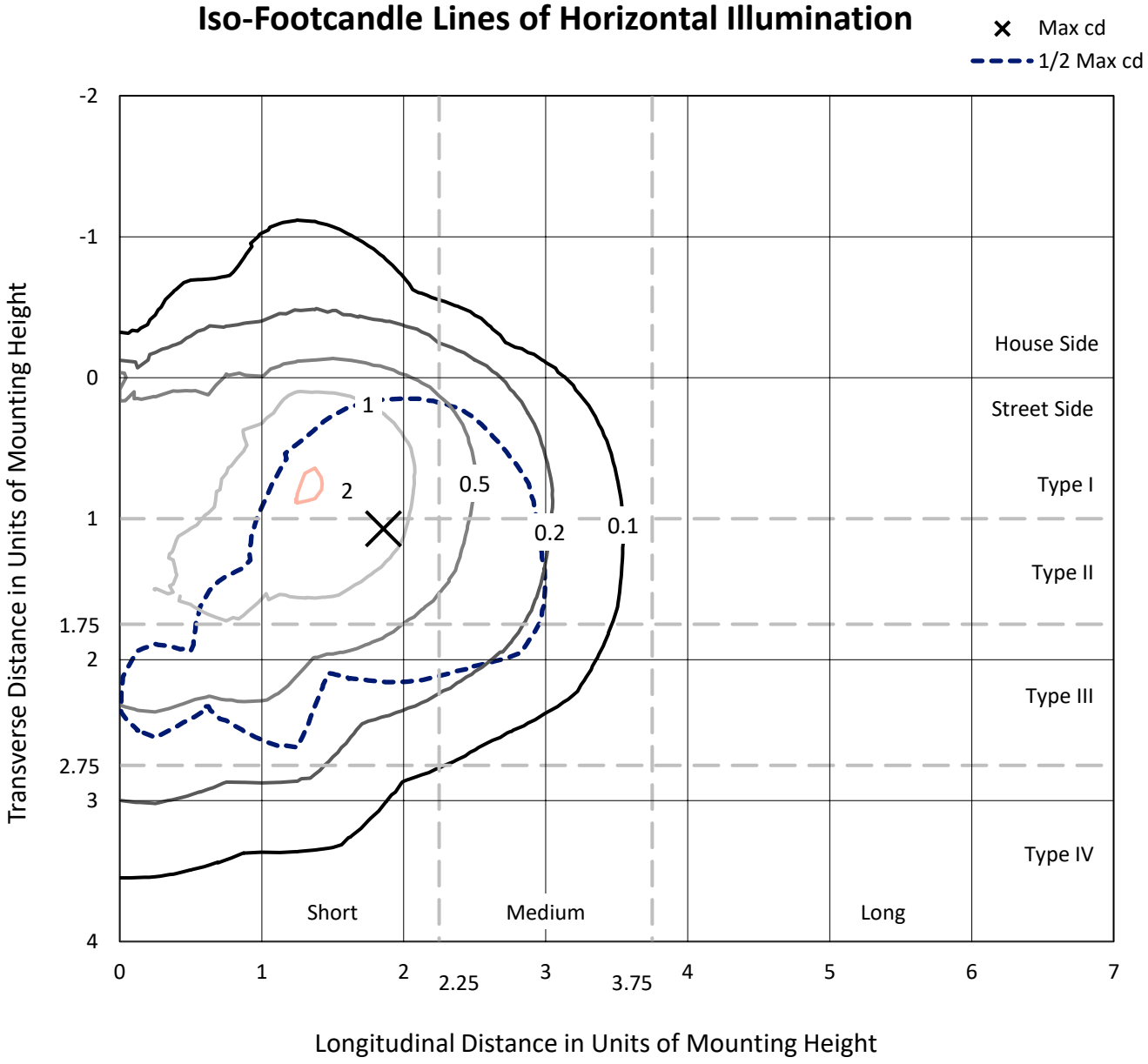


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



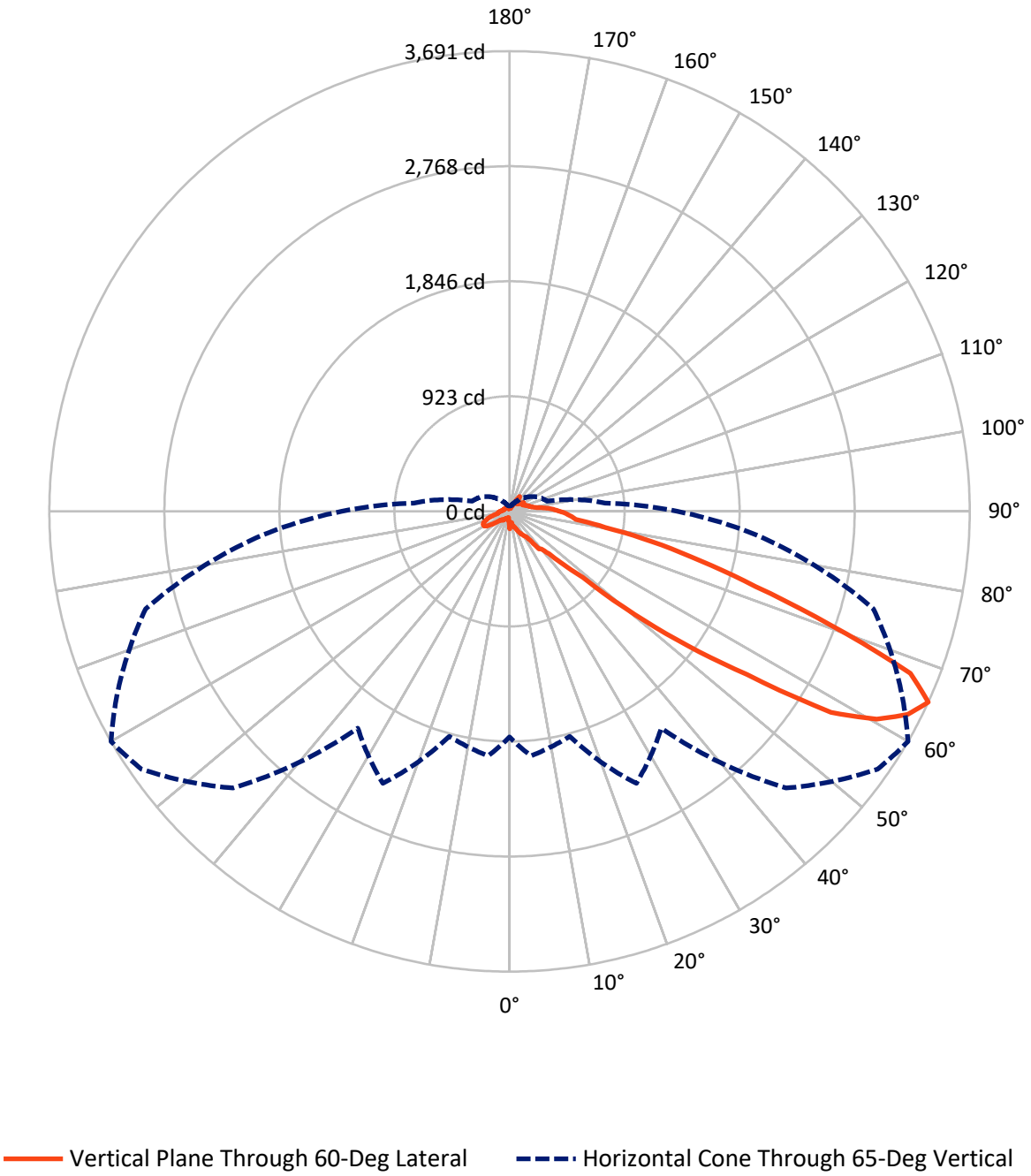
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

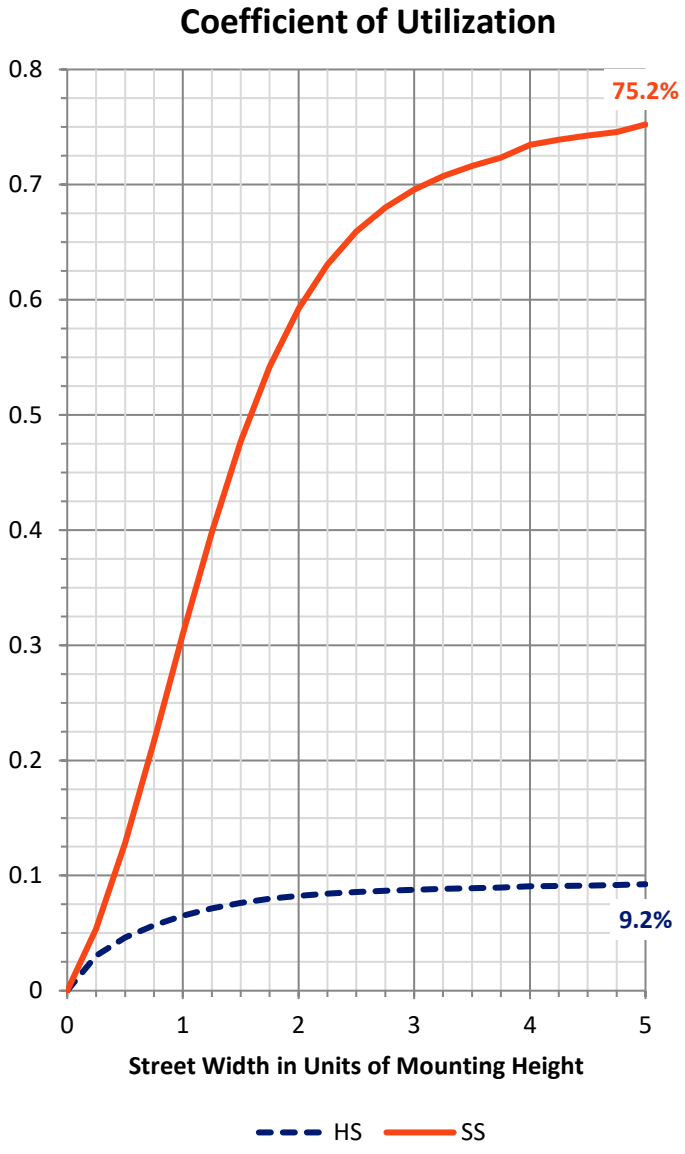
REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	397.2	128.2	525.5
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	3192.3	378.9	3571.2
	% Fixture	77.9	9.2	87.2
Total	Lumens	3589.5	507.2	4096.7
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.2
10°-20°	26.2	0.6
20°-30°	56.1	1.4
30°-40°	115.0	2.8
40°-50°	269.6	6.6
50°-60°	843.3	20.6
60°-70°	1320.4	32.2
70°-80°	698.5	17.1
80°-90°	252.9	6.2
90°-100°	152.5	3.7
100°-110°	95.5	2.3
110°-120°	77.2	1.9
120°-130°	64.4	1.6
130°-140°	46.9	1.1
140°-150°	43.1	1.1
150°-160°	18.0	0.4
160°-170°	7.2	0.2
170°-180°	2.3	0.1
0°-90°	3589.5	87.6
0°-180°	4096.7	100.0



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

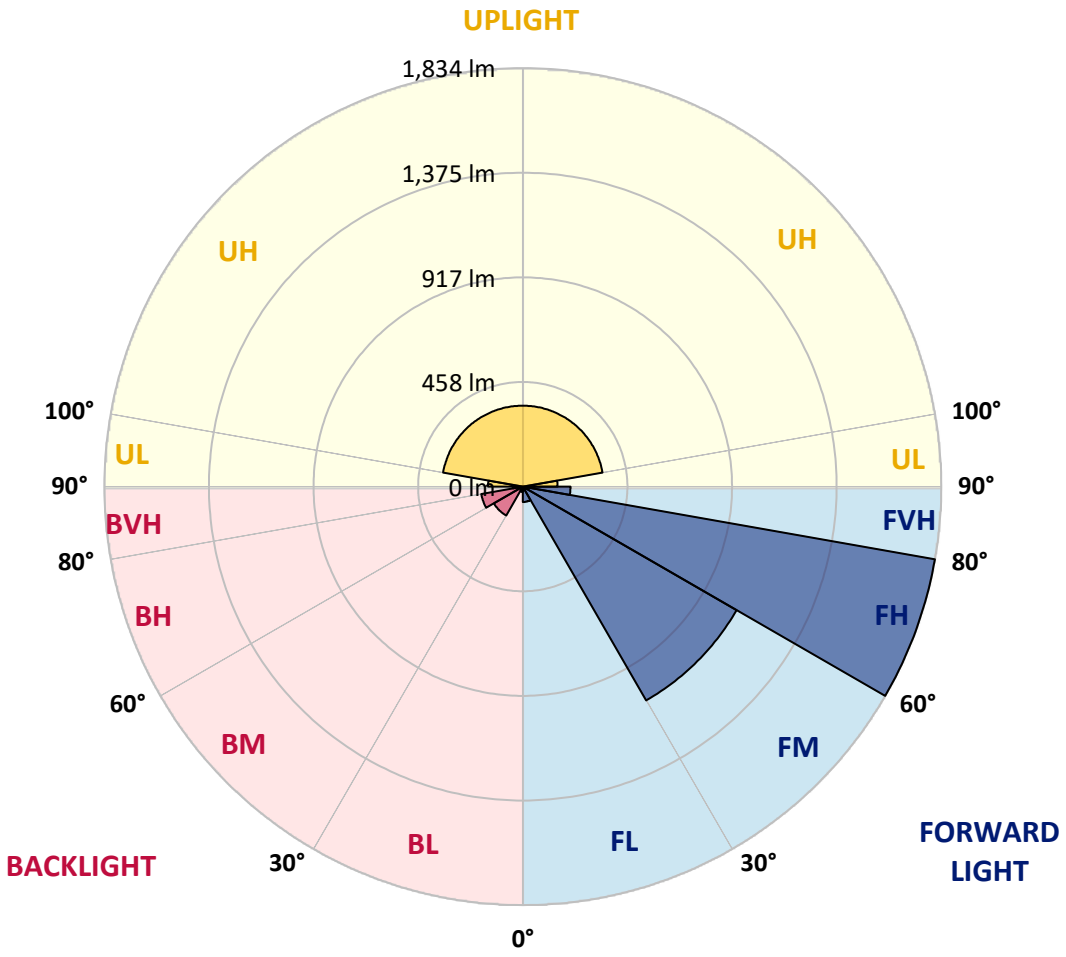
Scaled Data Report

REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-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°)	67.5	1.6			
FM	(30°-60°)	1081.8	26.4			
FH	(60°-80°)	1834.0	44.8			G2/5000
FVH	(80°-90°)	209.0	5.1			G2/225
BL	(0°-30°)	22.3	0.5	B0/110		
BM	(30°-60°)	146.1	3.6	B0/220		
BH	(60°-80°)	184.9	4.5	B1/500		G1/500
BVH	(80°-90°)	43.9	1.1			G1/100
UL	(90°-100°)	152.5	3.7		U3/500	
UH	(100°-180°)	354.7	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: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2
2.5°	76.7	79.7	97.1	115.1	120.1	109.1	94.4	96.2	104.3	142.9	160.0
5°	89.9	90.8	89.3	91.4	104.0	119.8	110.6	99.8	85.4	61.7	61.1
7.5°	103.4	103.4	102.8	95.3	86.6	83.9	92.0	93.5	92.0	76.7	66.2
10°	112.7	112.7	112.4	113.0	113.6	110.6	97.4	92.3	86.9	80.3	77.3
12.5°	136.6	137.2	141.1	139.0	131.2	123.1	124.6	123.1	115.1	101.0	89.3
15°	167.2	168.4	169.0	161.2	148.6	133.6	124.0	121.6	120.1	112.1	100.4
17.5°	183.1	182.5	175.3	167.2	159.1	148.3	139.3	135.7	130.3	120.1	107.6
20°	181.3	181.3	174.1	172.3	172.9	166.3	154.9	150.4	144.4	134.8	117.4
22.5°	186.4	186.7	182.2	183.7	190.3	183.7	172.6	169.6	163.9	150.1	132.4
25°	205.8	205.8	200.7	198.6	204.3	201.9	195.7	192.1	184.0	167.2	136.0
27.5°	223.5	222.3	217.5	218.1	212.7	211.5	210.0	208.5	201.3	174.7	137.8
30°	237.3	237.3	233.1	235.8	224.4	226.2	220.8	225.0	215.7	184.9	144.7
32.5°	249.9	251.7	250.2	253.8	240.3	248.1	238.8	243.3	237.6	203.1	164.2
35°	278.9	281.0	287.9	296.9	280.4	288.5	273.9	280.1	274.4	244.5	201.6
37.5°	394.3	391.0	376.0	361.3	345.5	378.7	375.1	381.1	372.1	323.9	254.7
40°	396.7	394.9	391.9	382.6	352.6	385.6	387.1	397.9	424.9	347.6	275.3
42.5°	406.9	409.0	444.6	449.1	426.7	477.9	463.8	464.4	556.7	411.7	355.3
45°	470.7	470.7	482.1	487.8	481.2	628.3	626.2	608.2	724.5	513.5	418.0
47.5°	539.6	541.7	562.7	619.0	655.9	795.2	836.5	793.4	945.9	673.8	575.9
50°	741.3	745.4	810.8	860.2	929.4	1164.0	1367.5	1301.8	1541.2	1028.0	867.7
52.5°	887.2	939.3	975.3	1161.3	1188.3	1548.7	1811.2	1788.7	1949.3	1422.9	1053.2
55°	1055.9	1137.0	1161.0	1449.5	1497.8	1998.4	2270.8	2310.6	2320.5	1839.4	1238.0
57.5°	1333.6	1459.4	1463.9	1768.9	1777.3	2519.2	2952.7	3040.5	2940.4	2324.1	1529.5
60°	1562.5	1709.9	1660.5	2075.7	1992.5	2940.4	3284.4	3383.9	3198.1	2738.5	1733.3
62.5°	1704.2	1846.5	1781.5	2291.5	2121.9	3121.1	3482.5	3584.6	3380.3	2958.7	1890.0
65°	1810.0	1967.9	1867.8	2406.5	2121.6	3137.3	3604.7	3691.0	3472.3	3021.9	1936.1
67.5°	1812.1	1953.8	1828.9	2365.5	1980.5	2881.1	3413.8	3468.4	3225.7	2797.5	1798.9
70°	1584.1	1685.9	1547.2	1996.3	1597.6	2186.6	2666.0	2730.7	2486.5	2150.7	1393.8
72.5°	1325.5	1365.4	1227.8	1596.7	1251.2	1654.8	2038.0	2062.3	1933.1	1611.0	1077.4
75°	1040.9	1025.6	954.3	1190.4	951.3	1172.4	1600.6	1577.2	1506.2	1185.6	822.1
77.5°	694.5	666.0	669.6	816.8	664.6	775.7	1165.5	1166.4	1141.5	879.1	586.4
80°	423.7	424.6	412.9	518.0	438.6	515.6	803.3	776.9	777.5	579.8	410.5
82.5°	331.4	336.8	322.1	373.3	345.5	410.2	524.9	539.6	523.7	425.8	302.3
85°	325.4	330.2	314.9	346.7	328.4	391.9	493.8	492.6	484.2	394.9	285.8
87.5°	298.1	303.8	292.4	314.6	300.5	362.8	454.5	448.5	440.4	371.5	272.7
90°	251.7	262.2	254.4	281.9	262.5	312.2	395.2	392.8	388.6	328.4	242.7
92.5°	228.9	231.0	225.3	250.2	228.6	273.6	350.9	343.4	334.1	284.9	206.7
95°	204.9	204.0	198.6	218.7	199.5	228.9	298.1	286.7	281.9	240.6	172.6
97.5°	164.2	164.5	161.8	175.6	161.8	182.8	223.8	219.6	210.0	179.8	132.1
100°	143.8	144.7	142.9	153.7	142.0	155.5	186.4	185.5	177.7	153.4	115.4
102.5°	136.0	136.3	138.7	145.3	134.2	144.1	169.9	170.2	165.1	142.9	108.5
105°	130.6	130.3	132.1	137.5	127.9	135.1	158.8	158.8	151.6	134.8	102.8
107.5°	126.4	125.8	128.8	133.3	126.7	128.8	147.1	148.3	141.4	125.5	97.7
110°	121.6	121.3	126.4	129.7	123.4	123.7	139.6	138.7	132.4	122.2	96.2

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

Scaled Data Report

REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	123.4	125.2	130.9	121.6	112.4	113.0	125.2	*126.7*	122.2	111.8	91.4
115°	121.9	123.7	131.2	118.0	104.3	107.9	118.0	*119.2*	112.7	104.0	86.0
117.5°	116.6	117.2	121.6	118.3	104.0	108.2	113.3	*115.4*	110.6	104.0	86.9
120°	137.8	133.3	133.3	128.2	112.1	119.5	129.1	*130.9*	126.4	114.2	86.6
122.5°	126.7	125.2	125.5	118.9	110.9	117.2	128.5	*131.5*	127.6	115.4	86.6
125°	99.8	100.1	98.6	100.7	97.4	99.5	105.5	*110.3*	106.7	100.1	82.4
127.5°	90.8	90.5	88.7	97.7	87.5	91.7	97.4	*100.1*	96.5	89.0	74.6
130°	88.4	88.4	93.5	102.8	96.8	95.0	92.9	*95.6*	95.0	90.2	74.6
132.5°	82.7	83.0	90.5	102.5	100.1	91.7	84.2	*85.7*	88.4	89.6	78.8
135°	82.7	81.8	79.4	82.1	80.6	82.7	80.6	*82.7*	83.3	82.7	68.9
137.5°	88.1	87.5	81.5	77.9	78.2	84.8	85.1	*86.0*	85.1	80.3	66.8
140°	86.3	84.2	80.0	78.5	78.8	85.7	88.4	*89.0*	88.1	78.8	62.9
142.5°	83.3	83.3	84.5	86.3	89.0	121.0	112.7	*120.4*	120.7	111.2	64.7
145°	119.5	120.7	117.2	113.3	122.8	145.6	136.9	*145.3*	151.0	140.5	89.3
147.5°	107.9	109.7	107.6	104.3	116.9	117.2	111.8	*112.7*	114.2	116.6	90.2
150°	76.4	74.3	77.6	75.2	87.8	87.2	79.7	*81.5*	84.8	85.1	71.9
152.5°	56.6	55.7	55.1	54.8	63.2	58.1	55.4	*54.5*	55.1	54.8	51.5
155°	50.0	50.0	49.7	51.2	55.7	52.1	49.4	*49.7*	48.2	47.3	45.5
157.5°	39.0	38.1	39.0	41.6	43.4	40.1	39.2	*38.7*	38.4	36.9	37.5
160°	32.1	32.1	32.7	34.8	36.0	33.6	31.8	*31.2*	31.2	30.6	32.7
162.5°	27.3	27.3	27.9	28.5	29.1	27.9	27.3	*27.3*	27.0	27.0	29.1
165°	22.8	22.8	23.1	24.3	24.6	24.0	23.7	*24.0*	24.0	25.2	27.0
167.5°	21.0	21.0	21.3	21.9	22.2	21.9	22.8	*23.7*	24.6	25.8	26.4
170°	20.1	20.1	20.4	20.7	21.3	21.9	23.7	*24.3*	24.6	24.3	24.3
172.5°	20.7	20.7	20.7	21.3	21.9	23.4	24.9	*24.9*	24.3	23.7	23.7
175°	21.0	20.7	21.0	21.6	22.5	23.4	24.0	*24.6*	24.6	24.3	24.3
177.5°	20.7	20.7	21.0	21.3	21.3	21.3	21.6	*21.9*	21.9	22.2	22.5
180°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	*20.4*	20.4	20.4	20.4

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

Scaled Data Report

REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2
2.5°	156.7	148.0	109.7	72.8	89.3	130.3	151.9	142.3	106.1	61.1	51.8
5°	64.1	71.9	83.9	80.3	72.2	59.3	44.6	44.3	61.4	74.6	75.8
7.5°	61.7	56.6	53.6	59.3	55.4	38.4	32.4	27.0	28.8	42.2	40.4
10°	76.1	74.3	69.2	56.6	41.6	34.5	32.4	33.0	35.4	31.8	31.5
12.5°	84.8	80.3	69.2	65.6	55.7	39.5	32.7	30.3	32.4	40.4	43.7
15°	92.9	86.3	72.5	60.8	50.0	41.0	35.1	30.6	27.3	23.7	23.4
17.5°	100.1	91.7	76.4	63.2	49.7	41.0	33.9	26.7	23.1	21.9	21.9
20°	108.8	101.0	81.5	65.9	50.0	40.1	32.7	26.4	23.1	21.9	21.9
22.5°	120.4	107.6	86.9	67.1	50.6	39.8	32.1	27.0	24.0	22.2	22.2
25°	123.7	113.9	90.5	71.0	53.0	41.3	33.6	27.9	24.6	23.1	22.8
27.5°	126.1	118.6	97.4	74.3	55.7	44.3	36.0	29.1	25.2	23.7	23.4
30°	135.4	128.8	104.9	79.1	59.3	47.3	38.1	30.9	26.4	24.0	23.4
32.5°	155.2	145.9	116.0	83.9	63.8	50.6	40.7	32.7	27.6	24.6	24.0
35°	193.0	185.5	145.3	93.8	68.6	54.8	44.0	35.1	29.1	25.5	25.2
37.5°	236.7	225.0	176.5	109.1	71.9	58.4	47.3	37.5	30.6	27.0	26.4
40°	244.2	210.9	156.4	99.5	72.5	60.2	50.3	40.1	32.4	28.2	27.3
42.5°	306.2	258.9	181.3	102.8	74.0	60.2	50.9	41.9	34.2	29.1	28.5
45°	323.9	258.0	180.4	114.8	81.2	62.0	51.2	42.8	35.7	30.6	29.7
47.5°	412.9	316.4	183.1	121.9	88.7	68.3	53.3	43.4	36.0	31.5	31.2
50°	590.2	423.1	220.2	147.1	106.4	79.7	59.9	45.5	36.6	32.4	32.1
52.5°	729.0	502.5	236.4	176.2	135.4	101.3	71.6	50.9	37.8	32.7	32.1
55°	866.5	599.2	266.4	207.9	161.2	121.9	89.0	59.6	40.7	33.3	32.7
57.5°	1076.2	719.4	303.5	239.1	191.2	141.4	99.5	67.4	44.3	33.9	33.0
60°	1203.6	761.9	307.4	255.0	208.2	155.2	103.1	70.4	48.8	36.3	34.8
62.5°	1318.0	800.3	310.1	262.2	211.2	156.7	103.4	68.0	49.7	39.8	38.1
65°	*1347.7*	*769.1*	*312.8*	*264.6*	*205.8*	*148.0*	*99.5*	*65.6*	*47.3*	*43.1*	*42.8*
67.5°	1280.6	689.7	294.2	255.6	191.5	133.0	89.6	62.3	46.1	41.9	42.8
70°	997.7	547.7	269.7	235.5	165.4	112.4	79.7	58.1	45.5	39.8	39.0
72.5°	786.2	465.9	272.4	224.4	139.6	99.5	70.4	53.0	43.1	39.0	38.4
75°	612.4	390.4	262.2	193.3	113.3	84.8	61.7	47.3	40.1	37.5	37.2
77.5°	449.1	309.8	216.3	148.9	93.5	70.7	53.9	43.4	38.1	35.7	35.4
80°	294.5	219.0	150.7	118.9	80.6	63.8	49.1	40.7	36.6	34.5	34.2
82.5°	250.5	194.5	133.9	109.4	74.6	61.4	48.2	39.8	36.3	33.9	33.6
85°	241.5	199.2	136.9	113.3	71.0	58.7	46.7	39.2	35.4	33.3	33.0
87.5°	226.8	180.4	132.4	101.6	65.6	53.6	43.7	37.8	33.9	32.1	31.5
90°	201.9	154.3	113.9	87.2	62.3	50.3	41.3	36.0	33.0	31.2	30.6
92.5°	163.0	117.2	89.6	77.0	60.8	50.0	41.0	36.0	33.0	31.2	30.6
95°	136.9	100.4	80.3	70.4	56.6	47.3	39.2	34.8	32.1	30.3	30.3
97.5°	108.5	83.9	71.6	63.2	50.9	43.1	37.2	33.3	30.9	29.1	29.1
100°	96.2	77.9	68.0	59.3	48.2	40.7	36.3	32.4	30.3	28.2	28.2
102.5°	91.4	75.5	67.1	56.3	46.1	39.2	34.8	31.2	29.4	27.3	27.3
105°	88.4	74.6	66.5	54.8	44.0	37.5	33.3	29.7	28.2	26.7	26.4
107.5°	85.4	73.4	67.4	53.9	42.2	36.3	33.3	29.4	27.6	26.4	26.4
110°	83.9	74.0	67.1	53.0	41.6	36.0	33.0	29.7	28.2	27.0	26.7

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

Scaled Data Report

REPORT NUMBER: P1046603
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	80.0	70.7	64.1	50.3	40.7	35.1	31.8	29.4	27.3	26.1	25.8
115°	76.1	65.0	58.7	47.9	38.7	33.9	30.9	28.5	26.4	25.5	25.5
117.5°	77.6	63.5	53.9	47.0	38.1	33.0	30.3	27.9	26.1	25.5	25.2
120°	76.7	66.8	60.5	50.3	37.8	32.1	29.7	27.3	25.8	25.5	25.5
122.5°	73.4	72.2	66.5	51.2	36.6	32.4	30.3	28.2	26.7	25.8	25.8
125°	70.7	70.1	62.0	46.1	37.5	33.6	31.8	29.7	28.8	27.9	27.6
127.5°	65.3	58.7	51.5	44.3	38.1	34.2	32.4	31.2	30.3	28.8	28.5
130°	65.6	60.2	53.0	44.6	36.6	33.6	32.7	31.5	30.0	27.6	27.3
132.5°	71.3	65.6	52.7	41.3	35.1	33.6	33.0	31.5	28.2	25.5	25.2
135°	59.3	55.4	46.7	39.5	35.7	34.8	34.5	31.2	26.4	24.6	24.3
137.5°	57.8	52.1	44.9	39.8	37.2	35.4	34.2	30.0	24.6	22.8	22.2
140°	54.5	49.1	44.0	40.4	36.0	30.0	27.3	25.2	22.8	21.3	21.0
142.5°	54.5	49.4	41.6	35.7	31.2	27.9	26.4	24.6	21.9	19.8	19.2
145°	64.4	58.4	50.3	45.2	40.4	35.4	30.3	24.9	20.4	17.7	17.4
147.5°	73.1	65.9	59.6	51.2	43.4	35.1	27.9	21.9	18.6	17.4	17.4
150°	59.9	53.3	50.0	42.8	36.0	28.8	23.7	20.4	18.6	18.0	18.0
152.5°	44.9	37.8	35.4	31.5	27.3	23.7	21.3	19.5	18.9	18.6	18.6
155°	41.9	36.0	33.0	29.4	25.2	22.2	20.7	19.8	19.2	18.9	18.9
157.5°	36.6	33.3	29.4	26.7	23.7	21.6	20.7	20.1	19.5	19.2	19.2
160°	32.7	30.3	26.7	24.6	22.5	21.6	21.6	21.3	20.4	20.1	20.1
162.5°	29.4	28.5	25.2	23.4	22.5	22.8	24.3	24.0	22.5	21.3	21.0
165°	27.3	26.4	24.0	23.1	22.5	23.7	26.7	26.1	23.7	22.2	22.2
167.5°	26.1	25.5	23.7	22.8	23.1	25.5	28.2	28.5	26.4	24.3	24.0
170°	24.0	24.0	23.7	24.0	24.0	25.2	26.7	27.6	27.6	28.2	27.9
172.5°	23.7	24.0	24.9	24.9	24.6	24.9	26.1	27.6	28.5	29.4	29.7
175°	24.3	24.6	25.2	25.5	25.5	26.1	27.9	29.1	29.7	29.4	29.4
177.5°	22.5	22.8	23.1	24.3	24.9	25.5	27.3	27.9	28.5	29.1	29.1
180°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4

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

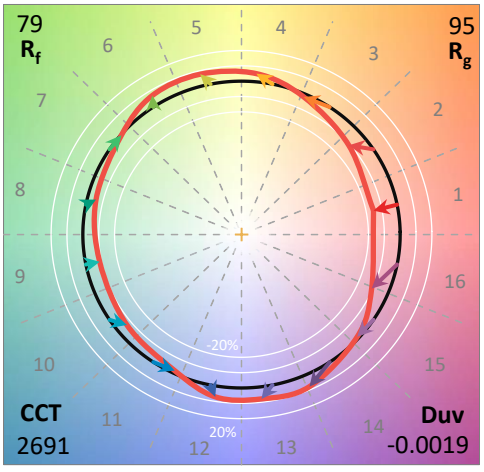
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

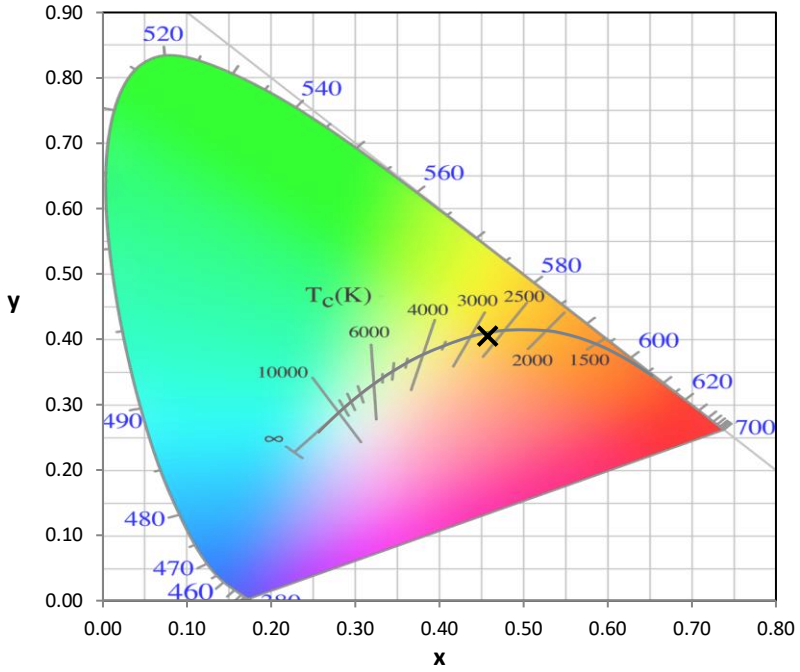
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

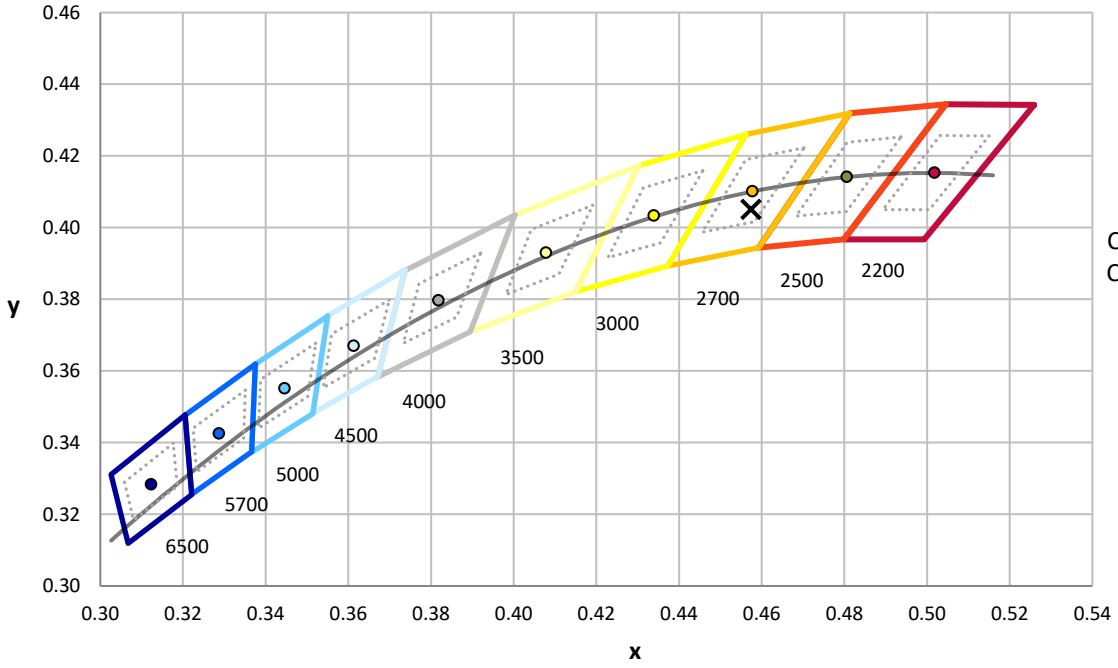
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

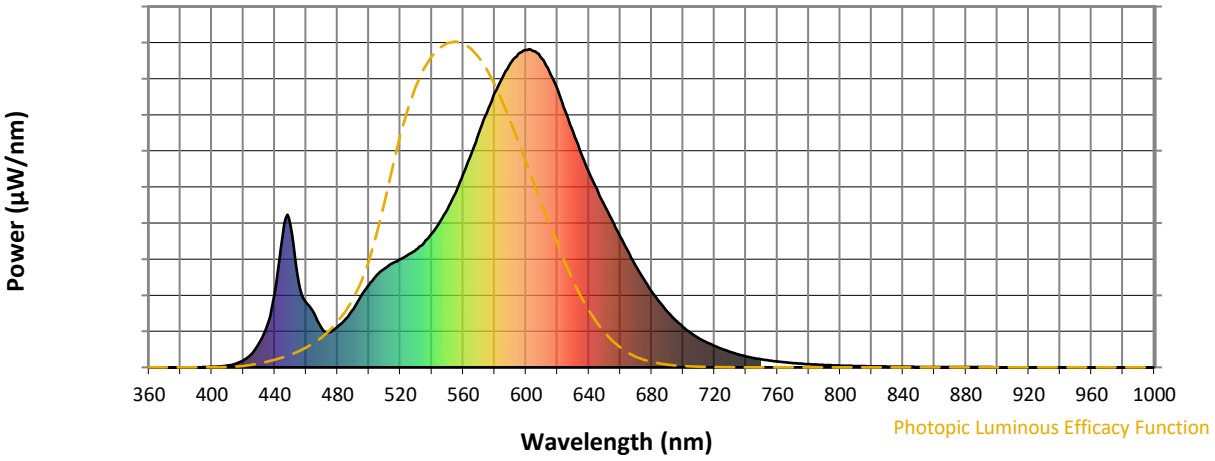


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

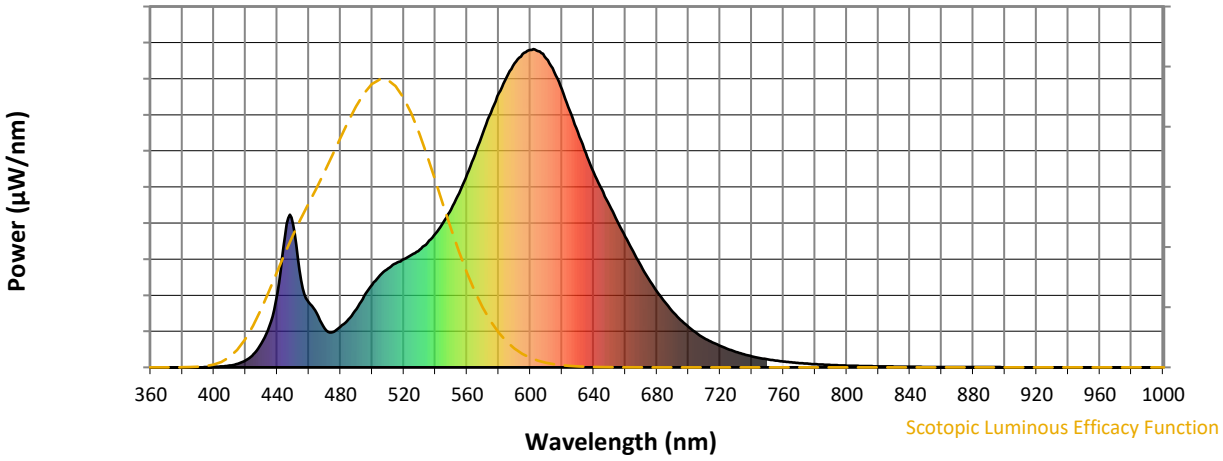


Photopic Lumens: NR

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

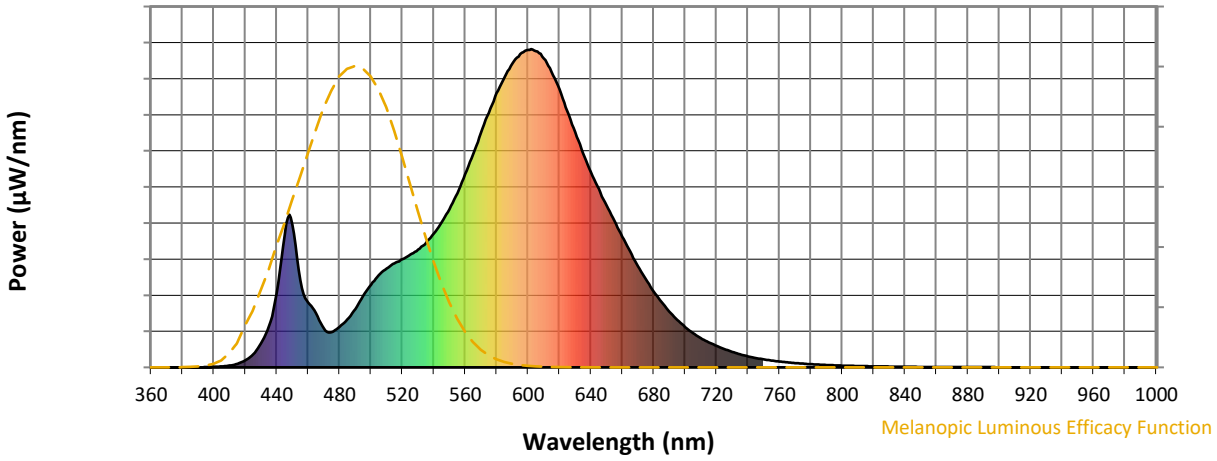


Scotopic Lumens: NR **S/P: 1.18**

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			

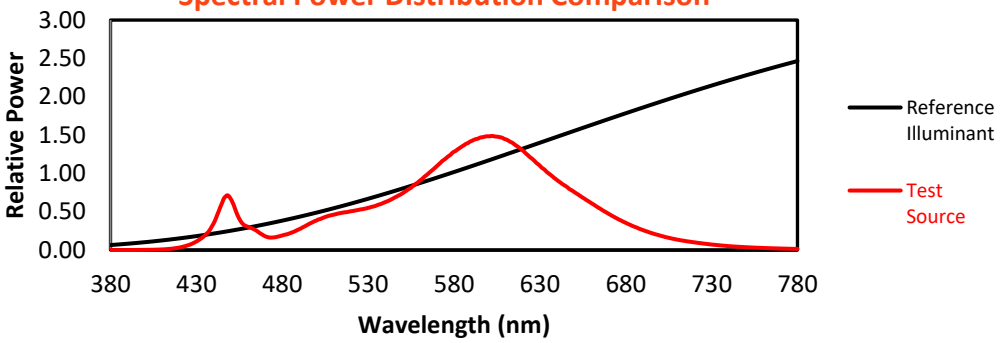
REPORT NUMBER: SP1-2501-332-8

TM-30-18

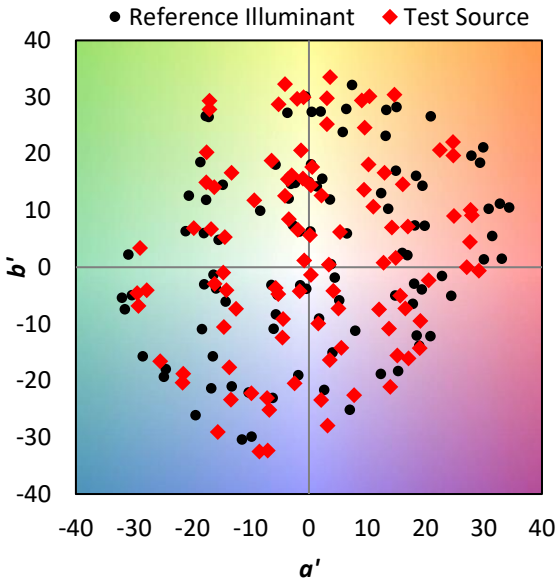
Summary

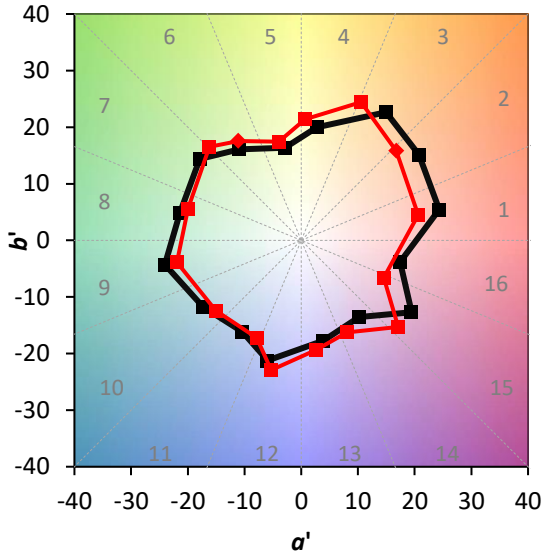
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

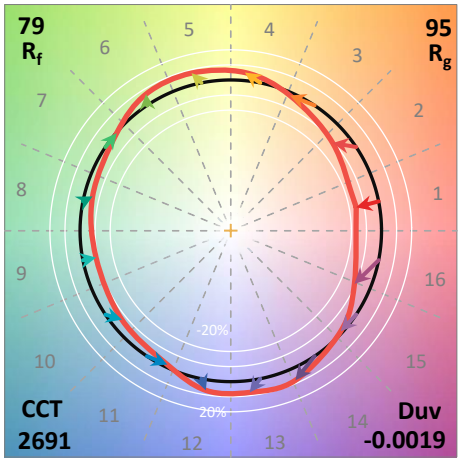
Spectral Power Distribution Comparison

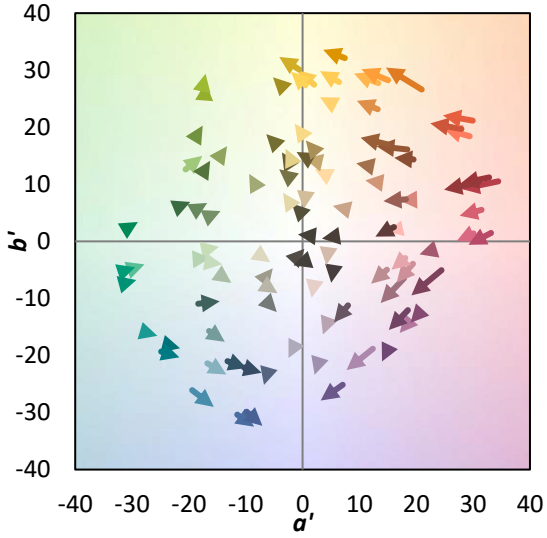


Color Vector Graphics







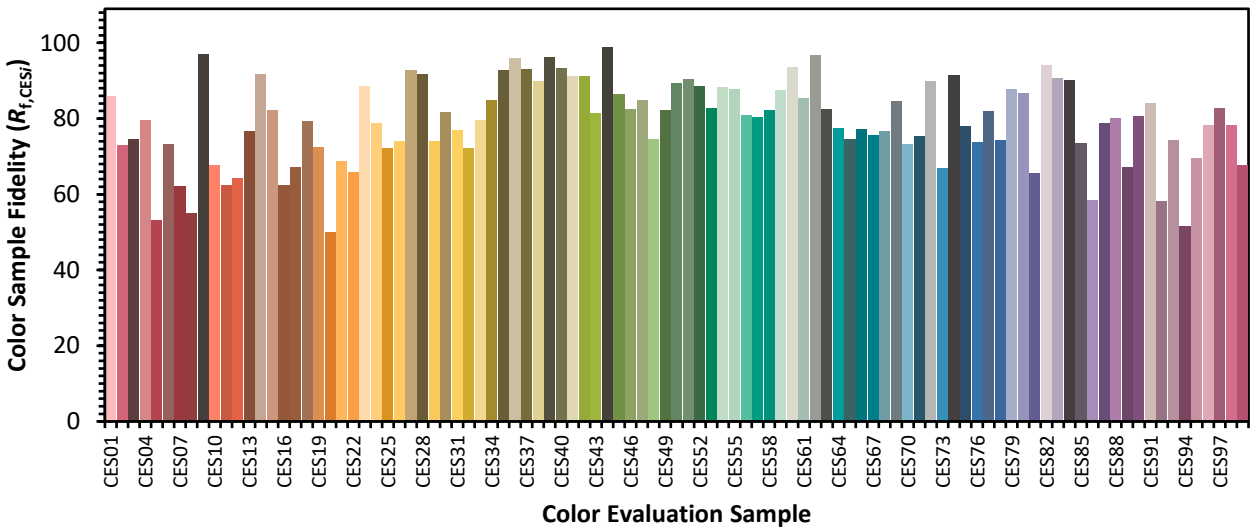


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

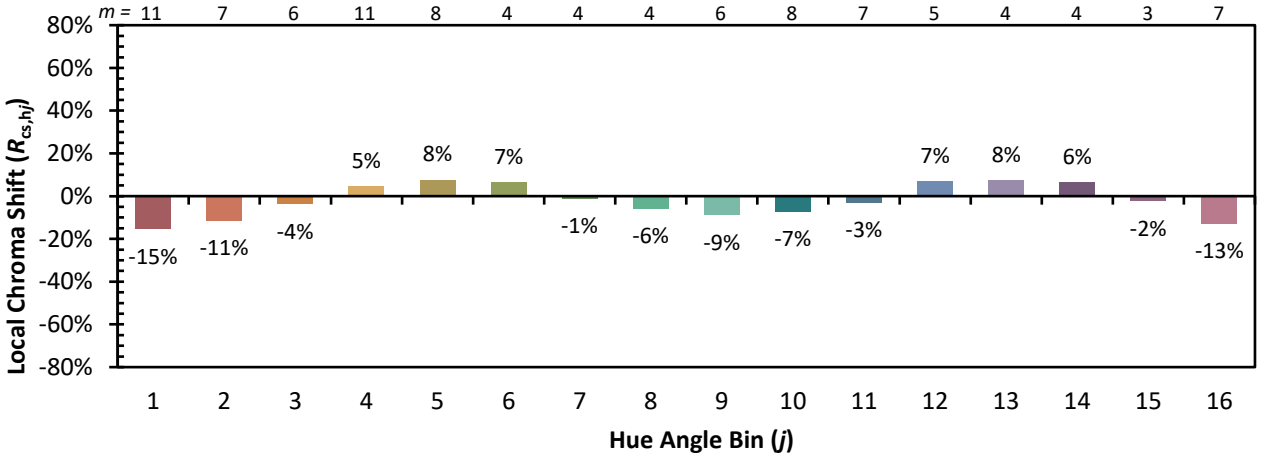
CES01 = 87	CES26 = 74	CES51 = 90	CES76 = 74
CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82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

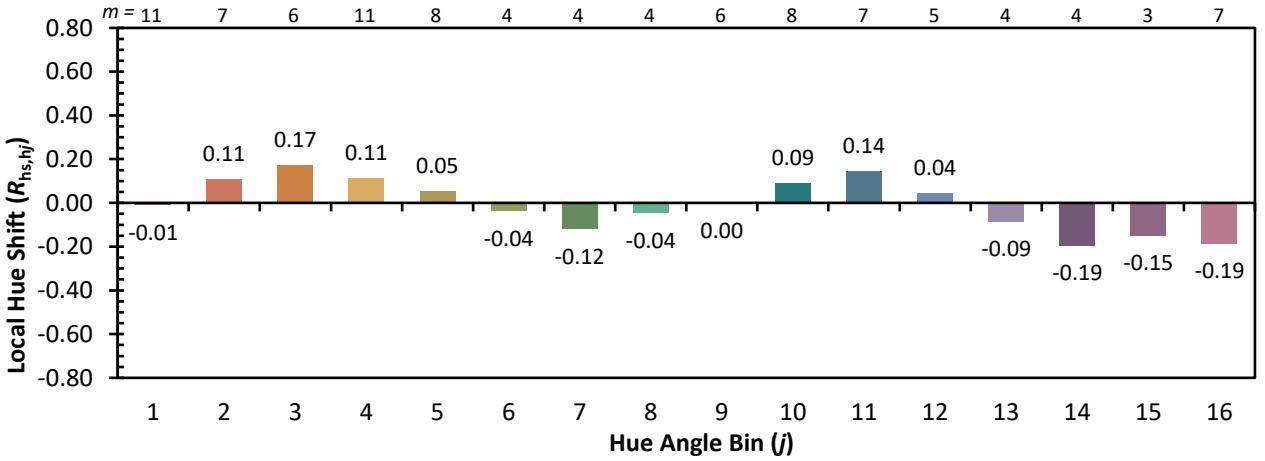


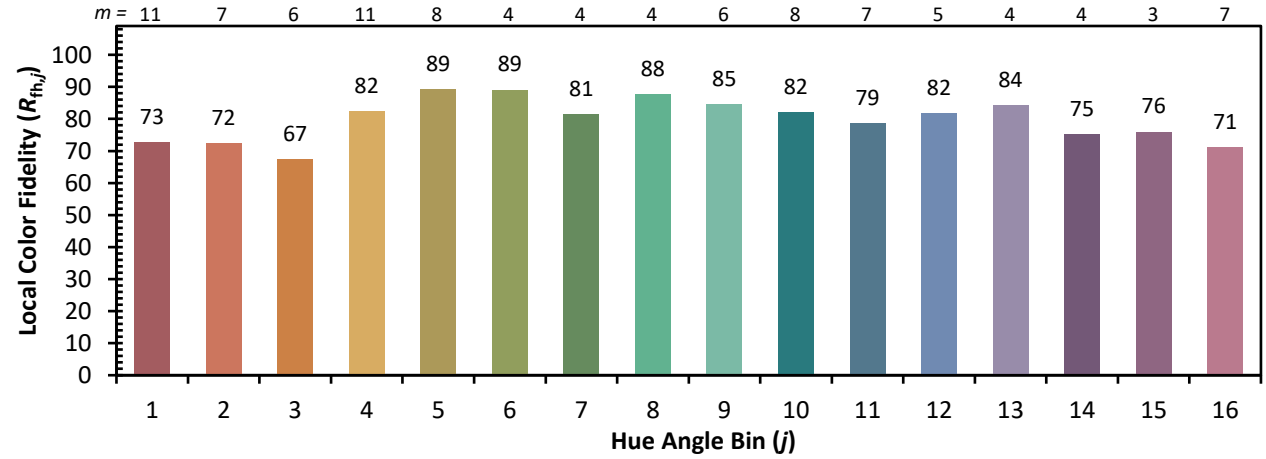
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



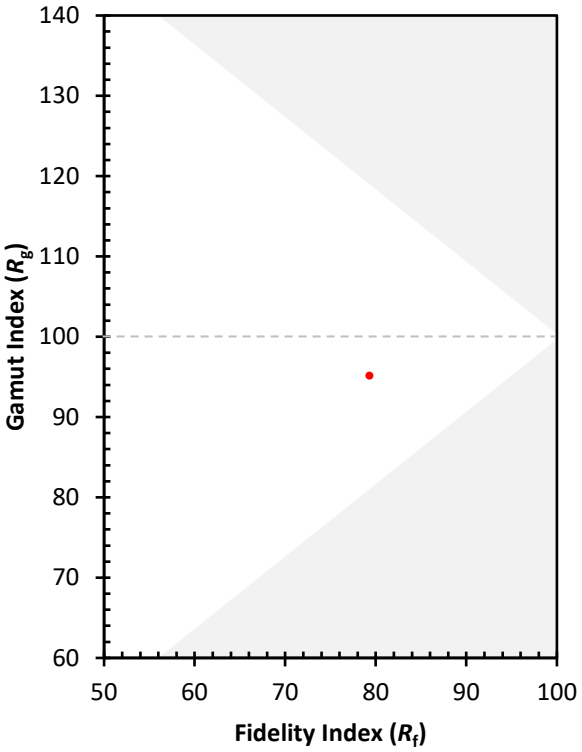


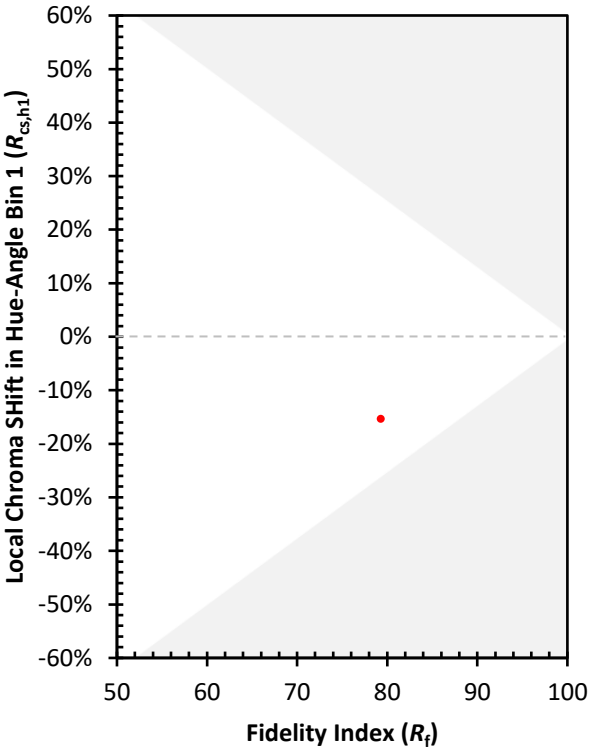


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)