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: P1046556

Luminaire Tested: **FFX-CLB-50-727-U-FR-T3-UPLR-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:	P1046556
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6681.5 lumens
Efficiency:	N/A
Efficacy:	132.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

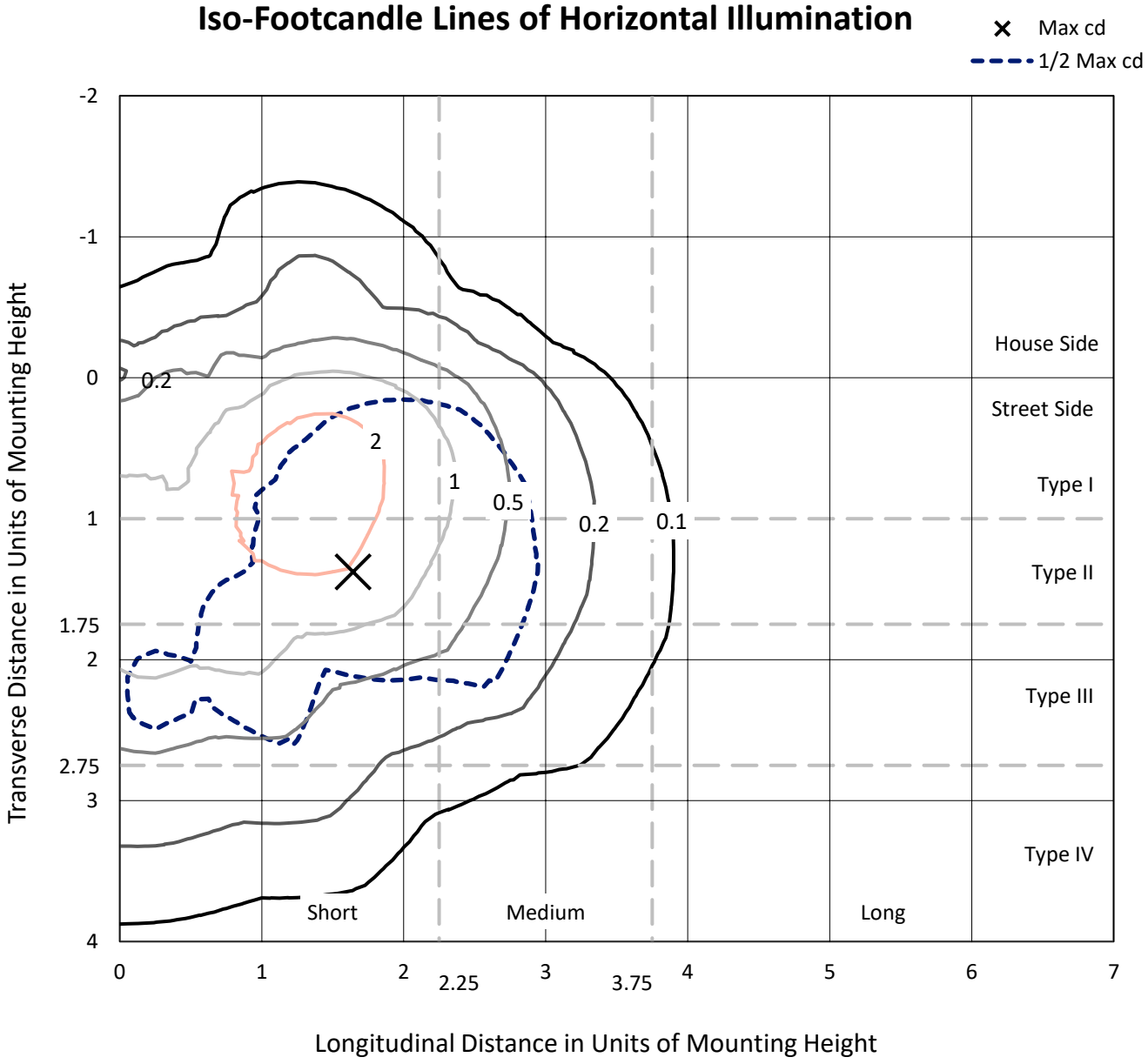


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



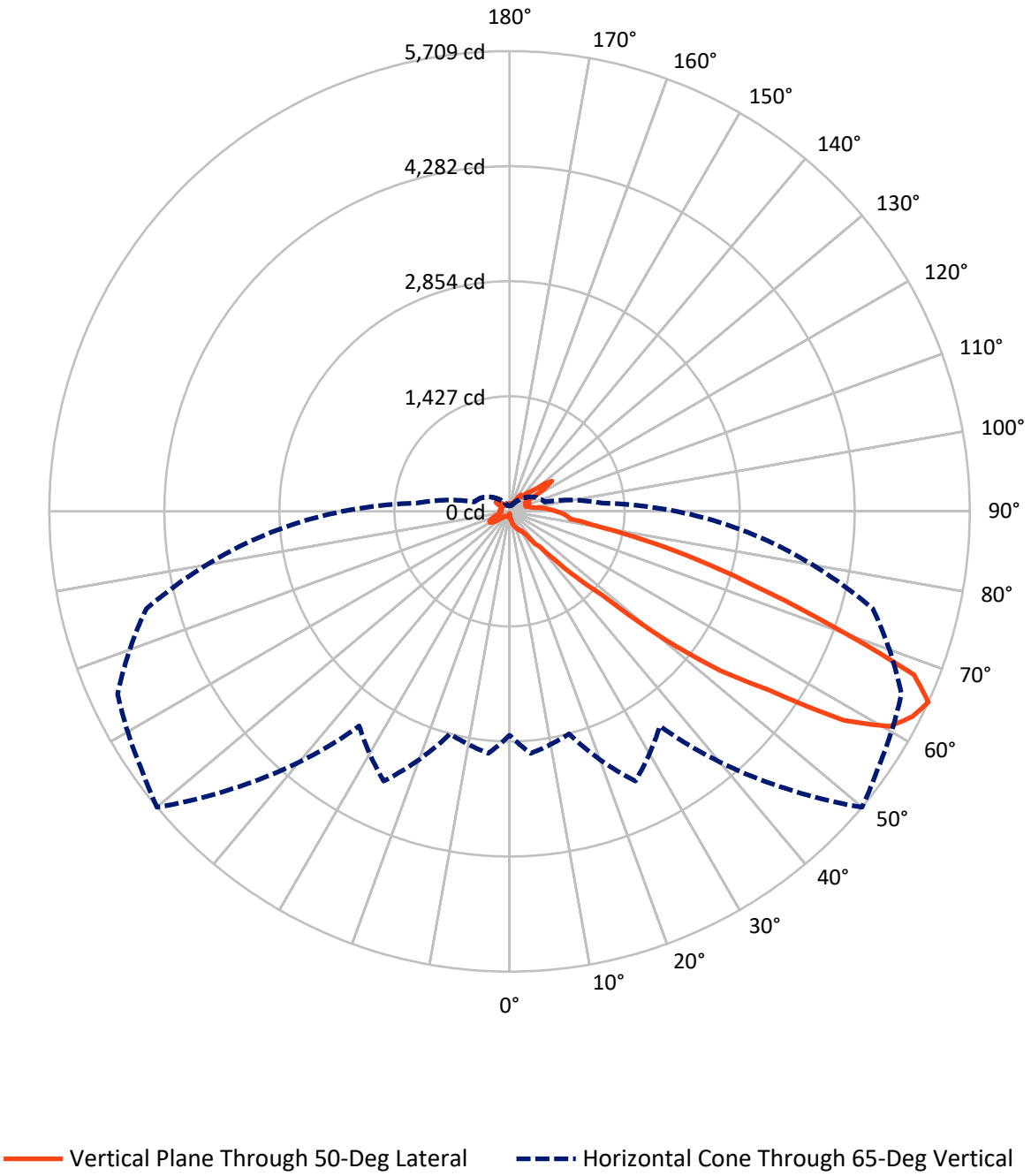
Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

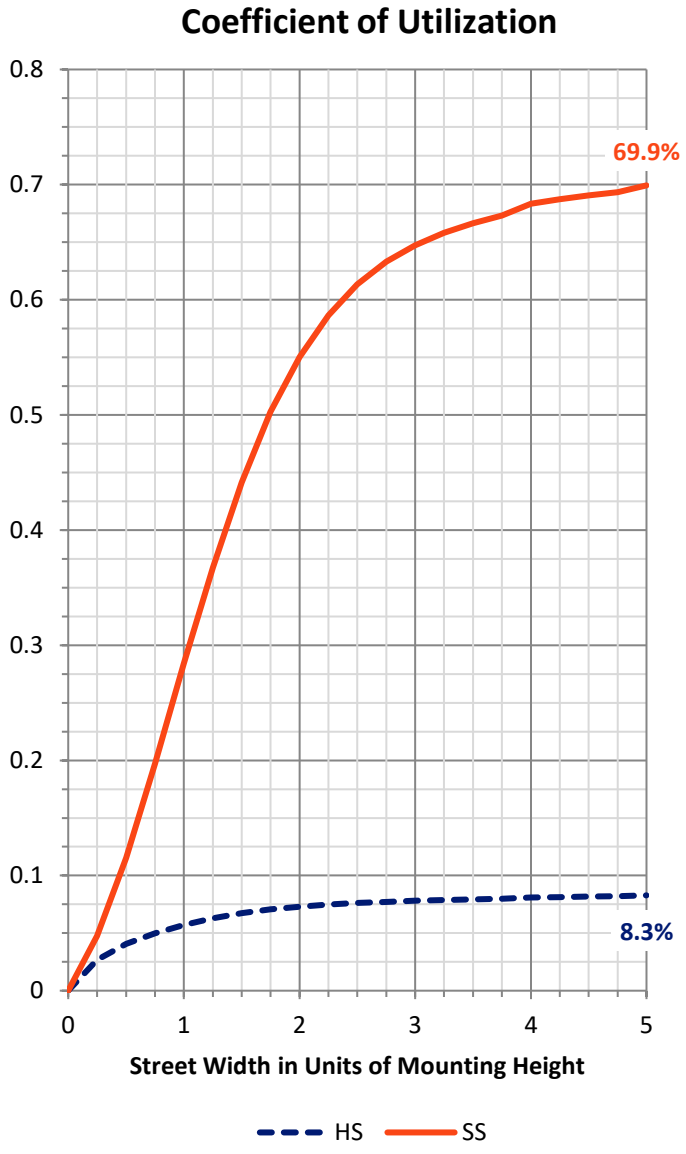
REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.1	385.8	971.9
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	4833.2	876.4	5709.6
	% Fixture	72.3	13.1	85.5
Total	Lumens	5419.3	1262.2	6681.5
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	34.9	0.5
20°-30°	74.5	1.1
30°-40°	148.7	2.2
40°-50°	389.5	5.8
50°-60°	1290.4	19.3
60°-70°	2035.1	30.5
70°-80°	1062.6	15.9
80°-90°	377.3	5.6
90°-100°	243.5	3.6
100°-110°	164.3	2.5
110°-120°	187.4	2.8
120°-130°	310.6	4.6
130°-140°	177.4	2.7
140°-150°	97.2	1.5
150°-160°	47.6	0.7
160°-170°	25.2	0.4
170°-180°	9.1	0.1
0°-90°	5419.3	81.1
0°-180°	6681.5	100.0



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

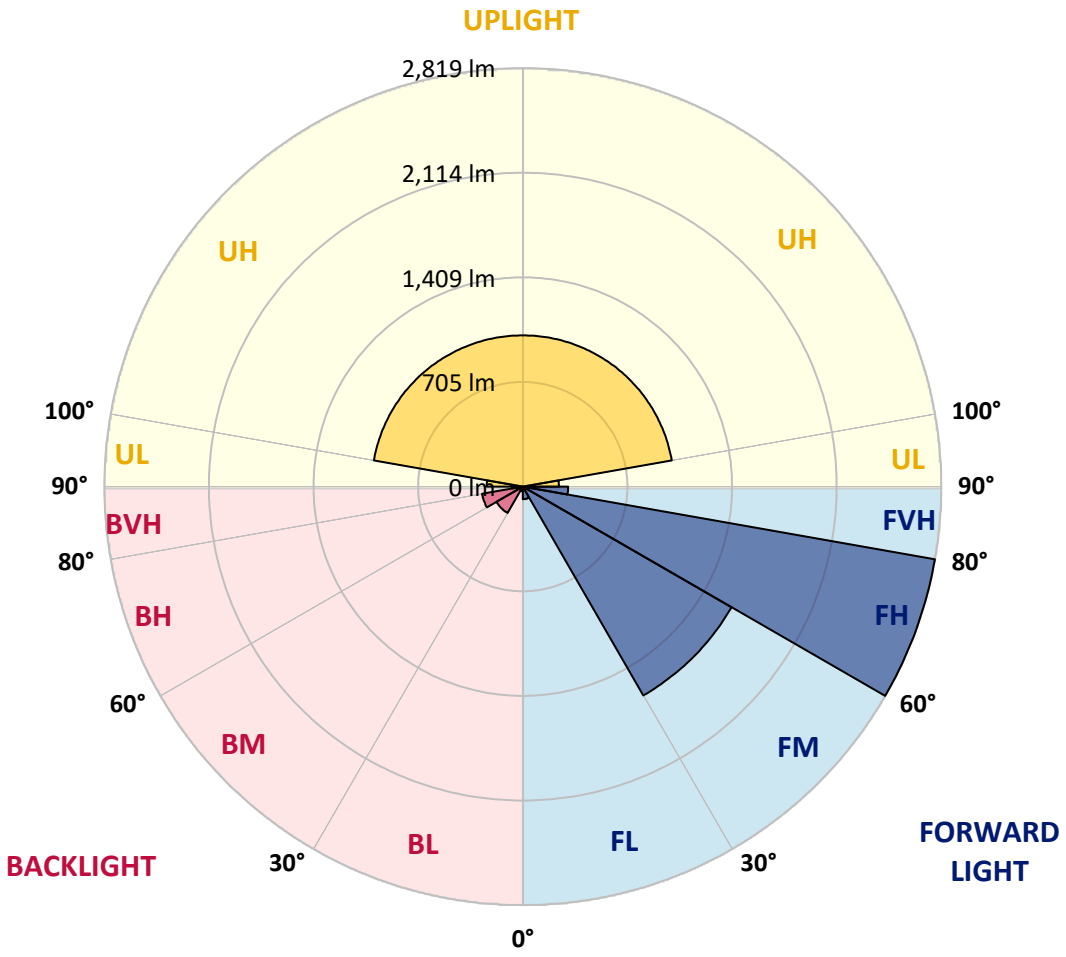
Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	85.0	1.3			
FM	(30°-60°)	1623.7	24.3			
FH	(60°-80°)	2819.0	42.2			G2/5000
FVH	(80°-90°)	305.5	4.6			G3/500
BL	(0°-30°)	30.7	0.5	B0/110		
BM	(30°-60°)	204.8	3.1	B0/220		
BH	(60°-80°)	278.7	4.2	B1/500		G1/500
BVH	(80°-90°)	71.8	1.1			G1/100
UL	(90°-100°)	243.5	3.6		U3/500	
UH	(100°-180°)	1018.7	15.2		U5	

BUG Rating: B1-U5-G3
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	45.3	44.9	45.8	47.2	46.7	45.3	44.4	43.9	42.5	42.0	40.6
5°	67.1	66.6	65.6	66.6	67.1	65.2	64.2	61.9	59.5	55.2	52.9
7.5°	94.0	94.4	95.4	93.0	92.1	87.8	86.9	84.5	80.7	75.6	74.1
10°	127.5	128.0	130.3	126.6	120.4	115.2	114.3	115.2	119.5	106.2	98.2
12.5°	160.5	159.1	166.2	164.3	156.3	148.7	145.0	145.4	143.6	133.6	120.4
15°	191.2	191.2	196.4	198.3	189.8	172.4	166.7	165.3	164.3	153.9	135.5
17.5°	210.6	211.5	212.0	212.0	209.2	194.5	187.9	185.1	176.6	167.2	150.2
20°	226.7	227.1	222.9	223.4	227.6	214.9	208.2	202.6	193.6	183.7	162.4
22.5°	248.9	247.9	241.3	238.5	247.9	237.0	230.0	223.8	213.0	201.6	182.3
25°	273.4	272.5	265.9	258.8	265.4	255.5	247.9	242.2	232.3	224.8	185.1
27.5°	297.0	296.1	284.7	283.8	278.1	273.4	265.4	264.0	256.4	234.2	183.7
30°	314.5	313.5	301.3	301.7	287.1	290.9	279.1	278.1	269.2	239.9	187.0
32.5°	321.1	322.0	316.8	314.5	294.7	309.8	298.9	295.1	292.8	255.0	203.5
35°	345.2	352.7	360.8	363.6	345.7	374.0	351.8	349.0	354.6	310.2	254.0
37.5°	530.8	527.0	497.2	455.2	445.8	508.1	504.8	507.1	503.4	441.5	336.2
40°	531.2	533.6	514.7	489.2	459.5	523.2	571.8	528.9	591.7	481.2	368.8
42.5°	558.1	550.6	595.4	605.4	572.3	667.2	810.8	648.8	784.3	586.5	502.0
45°	660.6	660.6	668.6	673.4	661.6	900.0	1177.7	905.2	1048.3	733.8	602.5
47.5°	766.4	757.4	803.2	880.2	926.0	1158.3	1554.5	1196.1	1421.8	986.4	836.3
50°	1068.6	1081.3	1169.2	1258.9	1327.4	1724.5	2502.7	2049.4	2322.3	1516.7	1276.8
52.5°	1303.3	1377.9	1445.4	1697.1	1727.8	2356.3	3289.8	2749.6	2975.4	2131.1	1580.9
55°	1545.5	1693.3	1733.5	2177.8	2212.7	3027.8	3916.5	3483.0	3546.7	2809.6	1877.0
57.5°	1989.4	2195.7	2209.4	2683.5	2682.1	3900.9	4889.7	4535.5	4487.4	3577.9	2330.8
60°	2371.4	2606.6	2522.5	3179.4	3032.0	4544.5	5417.1	5060.1	4954.8	4194.1	2650.0
62.5°	2603.3	2832.8	2729.3	3506.1	3255.4	4852.4	5607.9	5399.7	5220.2	4567.2	2910.2
65°	2776.1	3012.7	2857.8	3691.7	3251.1	4867.5	5708.9	5574.4	5364.2	4664.4	2967.3
67.5°	2753.4	2984.3	2798.8	3618.0	3024.0	4432.6	5411.9	5244.3	4984.6	4289.0	2775.1
70°	2387.5	2526.8	2322.8	3081.6	2417.7	3428.7	4215.8	4119.0	3869.2	3283.2	2146.6
72.5°	2009.7	2044.2	1852.9	2412.0	1885.0	2498.0	3203.4	3100.0	2936.2	2436.6	1622.5
75°	1552.1	1552.1	1442.6	1808.5	1400.6	1772.7	2424.8	2398.3	2297.3	1828.4	1232.0
77.5°	1048.3	993.5	977.0	1221.6	967.5	1169.6	1688.1	1750.5	1724.0	1309.0	898.1
80°	611.0	624.3	601.1	754.1	636.5	765.0	1083.2	1165.4	1163.0	869.3	589.3
82.5°	476.5	485.9	461.8	543.0	485.9	602.1	759.3	754.1	772.1	629.9	443.4
85°	469.4	476.5	451.4	502.0	466.5	571.8	713.5	712.1	708.3	583.2	416.5
87.5°	426.9	436.3	414.6	455.2	423.1	522.3	648.3	655.9	645.0	546.8	400.4
90°	357.0	366.9	357.5	404.7	371.6	450.5	563.8	569.5	560.0	487.3	361.2
92.5°	321.1	327.7	316.4	357.5	322.5	395.7	498.2	501.5	486.8	428.8	312.6
95°	296.1	302.7	288.5	318.7	284.7	349.0	424.0	434.9	413.2	361.7	266.3
97.5°	246.0	241.8	236.1	262.1	235.6	274.8	324.4	332.4	318.7	280.5	212.0
100°	213.0	214.4	212.0	230.9	206.8	236.1	274.8	278.1	272.5	244.6	191.7
102.5°	206.4	206.8	211.1	223.8	196.0	217.2	250.3	252.2	250.7	224.3	177.1
105°	204.5	204.0	206.4	220.0	191.2	198.8	230.4	231.4	226.7	208.7	165.7
107.5°	193.1	194.5	194.1	206.4	187.9	188.9	209.2	208.7	207.8	191.2	156.8
110°	221.5	219.1	209.2	209.7	191.7	196.4	216.7	214.4	209.7	199.7	170.9

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

Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	315.0	308.3	297.0	259.7	240.8	254.0	*267.7*	270.1	264.9	255.9	216.3
115°	349.4	348.5	335.7	311.2	248.9	253.6	*262.5*	266.3	272.5	255.0	221.5
117.5°	286.6	302.2	282.4	285.7	250.3	220.0	*218.6*	211.1	214.4	212.5	204.9
120°	361.7	364.5	324.4	316.8	292.3	302.2	*302.7*	303.6	293.7	246.0	216.7
122.5°	508.6	508.6	519.9	540.7	527.9	510.0	*499.6*	489.2	475.5	430.2	367.8
125°	645.0	644.1	637.9	648.3	635.6	642.7	*646.0*	648.8	634.2	578.9	493.9
127.5°	519.9	533.1	555.3	611.5	576.1	566.2	*556.7*	563.3	552.5	542.1	489.2
130°	402.8	404.2	440.6	476.5	473.6	442.0	*431.1*	412.2	416.5	415.1	383.4
132.5°	344.2	346.1	367.4	387.7	404.7	381.5	*360.3*	350.4	353.7	351.3	331.0
135°	300.8	300.8	293.2	290.9	305.0	326.3	*323.9*	311.2	305.0	298.0	267.7
137.5°	260.2	259.2	245.5	238.0	249.3	276.7	*278.6*	278.6	272.5	255.5	233.7
140°	214.4	213.0	205.9	207.3	210.1	228.5	*230.0*	234.2	233.3	219.6	193.1
142.5°	162.4	162.9	173.3	185.1	191.7	231.4	*225.2*	220.5	235.6	234.7	168.6
145°	216.7	212.0	212.0	206.8	222.4	261.6	*249.3*	253.1	272.9	254.5	182.3
147.5°	198.8	201.2	201.6	200.7	220.5	222.9	*213.9*	214.4	221.5	221.5	186.5
150°	153.9	150.2	151.1	153.0	173.8	172.4	*164.3*	163.9	169.5	168.1	152.5
152.5°	121.8	121.4	120.9	122.8	139.8	132.7	*129.4*	128.0	127.0	125.6	121.8
155°	114.7	114.3	113.3	115.7	125.6	122.3	*120.4*	120.4	118.1	115.7	113.3
157.5°	102.0	101.5	102.0	106.7	112.4	108.6	*108.1*	107.7	106.7	103.9	102.9
160°	95.4	94.9	95.9	99.6	102.0	98.7	*97.7*	98.2	97.7	96.3	98.2
162.5°	90.2	90.2	90.2	92.6	93.5	91.1	*90.7*	91.1	91.6	91.6	94.0
165°	87.4	87.4	87.8	89.2	89.2	88.3	*87.4*	87.4	89.7	90.7	92.6
167.5°	89.2	89.2	89.7	90.2	90.2	89.2	*89.2*	89.7	91.1	92.1	92.1
170°	92.1	92.1	92.1	92.6	92.1	90.7	*90.7*	90.7	91.1	91.1	91.6
172.5°	95.4	95.4	95.4	94.9	94.0	93.5	*92.6*	92.6	93.0	92.6	93.0
175°	100.1	99.6	99.6	99.2	98.7	98.2	*97.7*	97.3	97.3	95.9	95.9
177.5°	102.5	102.0	102.5	102.5	102.0	101.1	*100.1*	100.1	99.6	98.7	98.2
180°	98.7	98.7	98.7	98.7	98.7	98.7	*98.7*	98.7	98.7	98.7	98.7

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

Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	39.7	38.2	34.5	31.2	28.8	27.9	27.9	26.4	24.6	23.1	22.7
5°	52.4	51.5	50.1	48.2	43.9	38.2	33.5	31.6	30.7	30.2	29.7
7.5°	74.1	75.1	77.0	76.5	68.5	53.4	44.4	43.9	49.1	54.8	56.7
10°	95.9	94.9	101.1	106.2	86.4	60.4	45.8	44.4	51.5	61.4	62.8
12.5°	114.7	110.0	106.7	101.1	82.6	60.4	49.1	46.3	49.6	57.1	57.1
15°	128.9	122.8	109.1	95.9	79.3	62.3	51.0	49.1	49.1	46.7	47.2
17.5°	139.8	128.4	108.6	91.6	73.7	59.5	50.5	45.3	42.5	38.7	37.8
20°	152.5	144.5	118.1	94.4	72.7	57.6	49.1	43.0	39.7	38.2	37.8
22.5°	166.2	149.7	124.2	95.4	72.7	58.6	48.6	42.0	39.2	38.2	38.2
25°	167.6	153.5	127.5	99.2	75.1	60.4	49.6	42.5	39.7	38.7	38.2
27.5°	165.7	155.8	133.2	103.4	77.4	62.3	51.5	43.4	39.7	38.2	37.8
30°	172.8	164.8	139.8	106.2	79.8	64.7	53.4	45.3	40.6	37.8	37.3
32.5°	190.8	179.4	148.7	108.1	80.7	65.2	55.2	47.2	41.6	38.2	37.8
35°	238.0	227.6	183.2	114.7	80.7	66.1	56.7	48.6	42.5	38.7	38.2
37.5°	306.5	287.1	225.2	136.9	81.7	68.0	58.1	50.5	43.9	39.7	38.7
40°	324.9	274.4	191.2	122.8	83.6	69.9	60.4	52.4	45.8	41.1	40.6
42.5°	421.7	350.8	236.1	129.9	89.2	71.3	61.9	54.3	47.2	42.5	41.6
45°	451.4	351.3	239.9	150.2	104.8	77.4	64.2	55.7	48.2	43.4	43.0
47.5°	591.7	435.8	244.6	161.0	117.6	89.2	69.9	57.6	49.1	44.4	43.9
50°	867.4	614.8	303.6	201.2	145.4	109.1	82.2	61.4	50.1	45.8	44.9
52.5°	1082.3	737.6	329.1	246.0	193.1	144.0	103.4	71.3	52.9	46.7	45.8
55°	1319.3	906.2	374.0	296.5	234.2	180.4	131.3	85.9	58.6	48.2	47.2
57.5°	1645.6	1081.8	439.1	349.9	284.3	210.6	149.7	100.6	66.1	51.5	49.6
60°	1844.0	1156.4	449.5	378.7	314.0	234.7	157.7	106.7	74.1	56.2	53.4
62.5°	2033.8	1207.9	452.4	390.0	321.1	239.4	158.7	103.9	77.0	62.8	59.0
65°	*2072.5*	*1156.9*	*453.3*	*392.4*	*312.6*	*227.1*	*153.5*	*101.1*	*73.7*	*68.5*	*68.9*
67.5°	1941.7	1027.5	420.3	375.4	289.9	202.6	137.9	96.8	72.7	67.5	68.9
70°	1526.6	805.1	383.9	348.0	246.0	172.4	122.8	91.1	72.7	65.2	63.7
72.5°	1185.2	688.0	393.3	330.5	210.6	153.9	111.0	85.0	70.4	64.7	63.7
75°	919.9	574.2	387.7	290.9	171.9	132.2	99.6	77.9	67.1	63.7	63.3
77.5°	672.4	452.8	320.6	222.9	142.6	112.4	87.8	73.2	65.2	62.3	61.9
80°	432.5	316.8	223.4	178.0	125.1	102.5	82.2	69.9	64.2	62.3	61.9
82.5°	364.5	287.6	201.2	168.6	120.9	104.4	85.9	73.2	67.5	65.6	65.2
85°	350.8	296.1	206.8	175.7	115.7	99.6	84.1	73.2	68.0	65.6	65.2
87.5°	333.4	267.7	204.0	161.5	111.4	95.9	82.6	75.1	69.9	68.5	68.0
90°	301.7	236.1	187.0	150.2	117.6	102.0	91.1	83.1	77.9	74.6	73.7
92.5°	254.5	189.8	160.5	148.3	128.9	115.7	104.8	97.7	92.1	88.8	87.4
95°	214.4	165.7	139.8	131.3	113.8	103.9	93.5	88.3	84.1	81.2	81.2
97.5°	174.7	142.1	129.9	123.2	109.1	98.2	89.7	84.5	83.1	82.2	81.7
100°	164.3	139.3	130.8	125.1	113.8	103.9	97.3	92.6	92.1	91.6	91.6
102.5°	152.5	131.7	122.3	116.6	105.3	96.8	92.1	88.3	86.9	85.5	84.1
105°	144.0	124.7	117.6	110.0	101.1	92.6	87.8	82.2	81.2	80.7	80.7
107.5°	139.8	123.7	119.9	108.1	99.6	95.9	90.2	83.1	81.7	79.8	79.8
110°	154.4	137.4	126.6	111.9	102.9	99.6	98.2	92.1	87.4	81.7	81.2

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

Scaled Data Report

REPORT NUMBER: P1046556
CATALOG NUMBER: FFX-CLB-50-727-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	191.2	168.1	155.4	133.6	115.2	107.2	101.1	94.4	91.6	87.8	86.4
115°	205.9	182.3	166.2	144.5	123.2	109.1	100.1	99.2	96.3	94.0	96.3
117.5°	211.1	165.7	136.9	131.7	115.7	104.4	100.1	98.7	99.6	99.6	95.4
120°	227.6	179.0	168.1	161.5	131.3	112.9	103.4	108.1	107.2	101.5	101.5
122.5°	339.5	303.2	267.3	222.9	185.1	163.4	131.3	110.0	105.8	102.0	99.6
125°	447.2	414.6	358.4	299.4	234.2	173.3	130.3	115.2	107.2	102.5	103.4
127.5°	455.7	421.2	357.0	284.7	209.2	162.0	131.3	118.1	109.1	103.9	102.9
130°	356.0	331.5	283.3	230.4	177.5	145.0	121.4	108.1	100.1	95.4	94.4
132.5°	315.0	294.2	244.1	197.9	162.0	134.6	114.3	99.6	94.0	90.7	90.2
135°	251.7	234.2	200.7	175.7	150.6	128.0	107.7	94.0	88.8	88.3	87.4
137.5°	220.5	206.4	180.4	159.6	138.8	117.1	100.1	88.8	86.4	86.9	85.5
140°	179.9	173.8	159.1	141.2	119.0	96.3	84.5	80.7	84.5	86.4	86.4
142.5°	154.4	146.4	129.9	109.1	94.9	84.5	83.1	81.7	83.6	84.5	84.5
145°	142.1	132.7	119.0	111.4	104.8	95.9	88.3	81.7	79.8	80.3	80.3
147.5°	160.5	149.7	140.7	126.6	110.5	95.4	84.1	76.5	76.5	78.4	78.9
150°	133.2	123.7	117.6	109.6	97.3	85.0	77.0	73.2	74.6	78.4	78.9
152.5°	111.4	100.1	96.3	91.6	85.0	78.4	74.6	72.7	75.1	77.9	77.9
155°	108.6	98.7	94.0	89.2	83.1	77.4	74.1	73.2	75.6	77.4	77.9
157.5°	102.0	96.3	90.2	86.4	81.7	77.4	75.1	74.1	76.0	77.4	77.9
160°	98.2	94.9	87.8	84.5	80.3	77.4	77.0	77.0	77.9	78.4	78.4
162.5°	94.0	92.1	87.8	85.0	82.2	80.7	81.7	82.2	82.2	81.7	81.7
165°	92.6	91.6	87.8	85.5	84.1	84.5	86.4	86.9	85.5	84.5	84.5
167.5°	92.1	92.1	89.2	87.4	86.9	87.8	89.7	89.7	88.3	86.4	85.9
170°	92.1	92.6	91.6	91.6	90.7	91.1	91.6	91.6	90.7	89.7	89.2
172.5°	93.5	93.5	93.5	93.5	93.0	93.5	94.0	94.0	94.0	93.5	93.5
175°	95.9	95.9	95.9	95.4	94.9	94.9	95.4	95.9	96.3	96.3	96.3
177.5°	98.2	97.7	97.3	97.7	97.3	97.3	98.2	98.7	99.2	99.2	99.2
180°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

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: SP1-2501-332-8

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

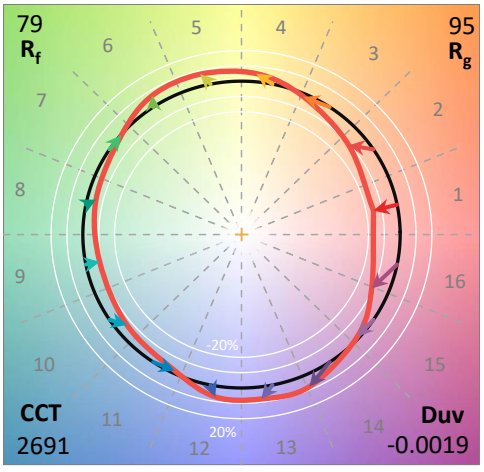
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

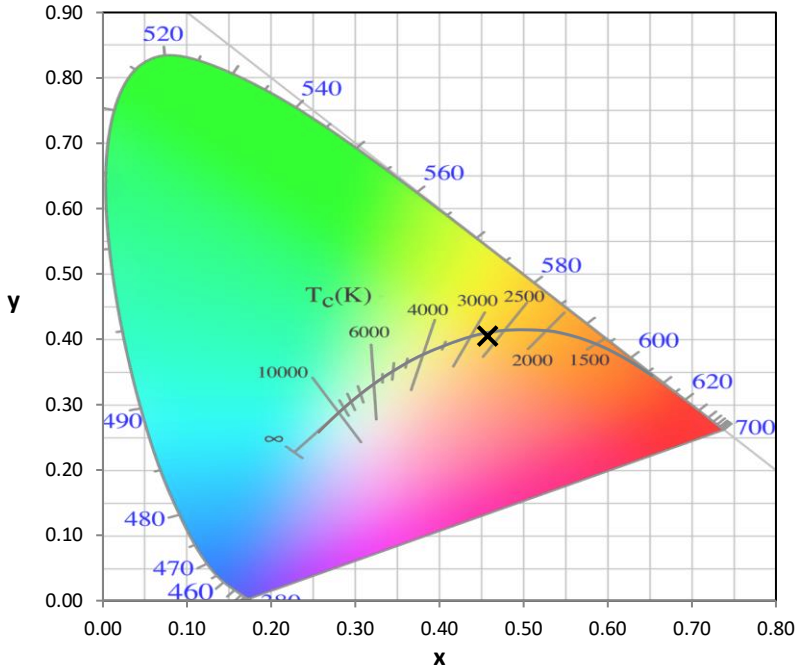
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

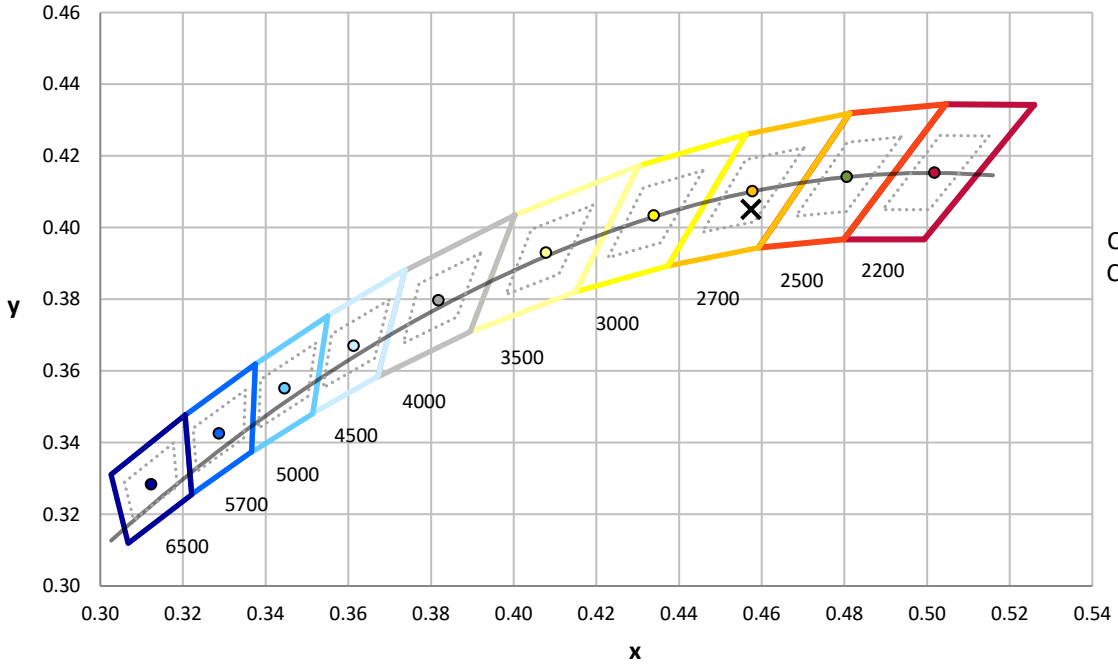
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

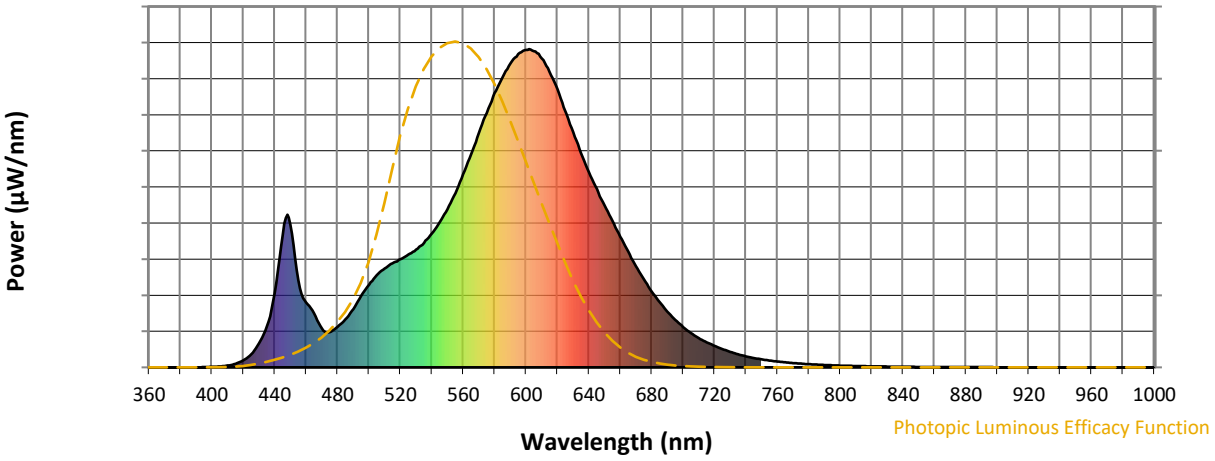


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

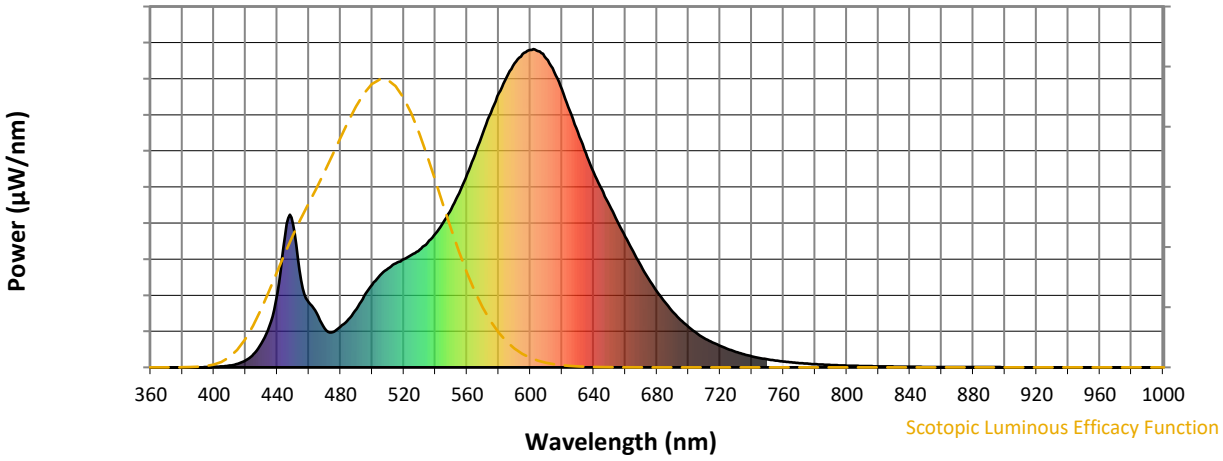


Photopic Lumens: NR

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

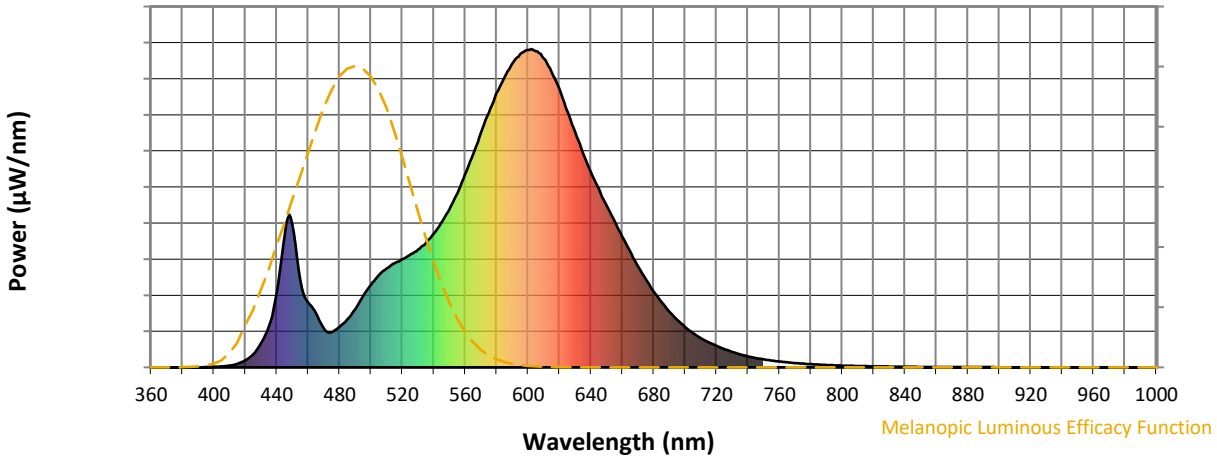


Scotopic Lumens: NR **S/P: 1.18**

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			

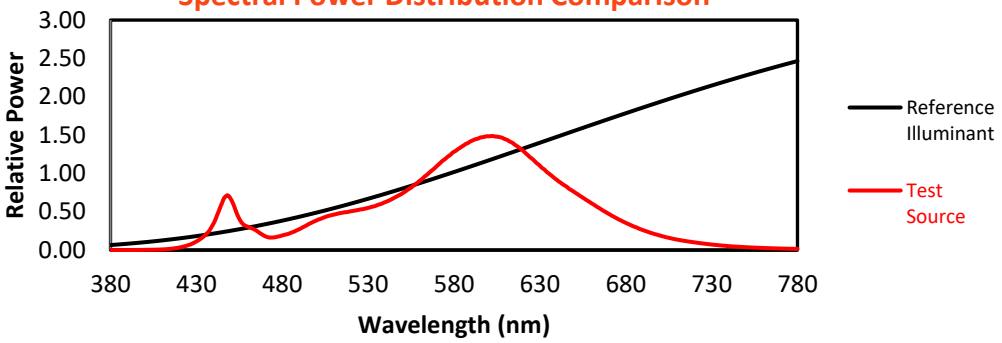
REPORT NUMBER: SP1-2501-332-8

TM-30-18

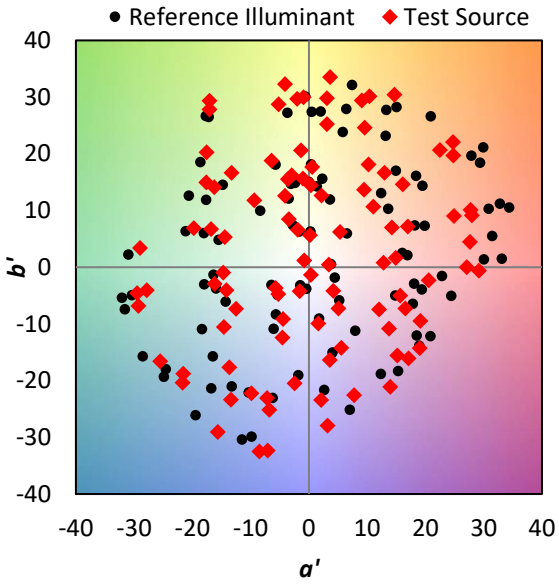
Summary

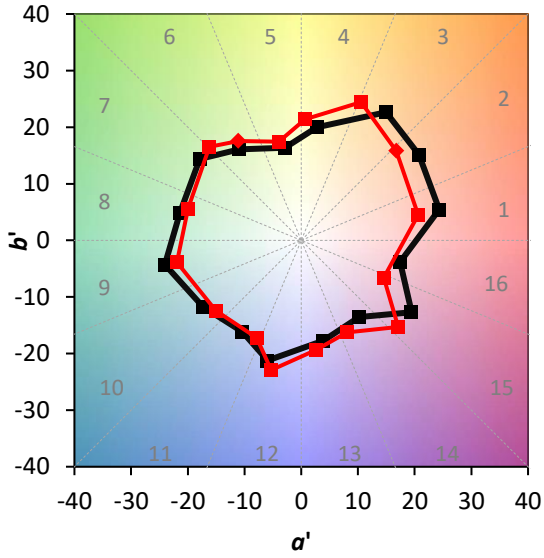
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

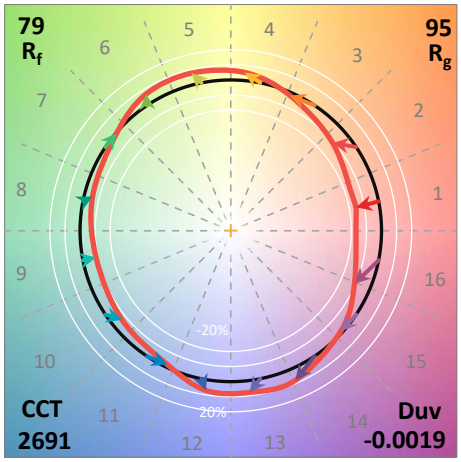
Spectral Power Distribution Comparison

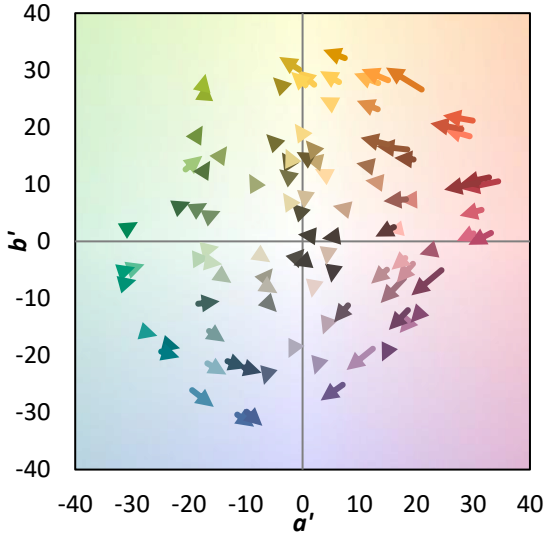


Color Vector Graphics







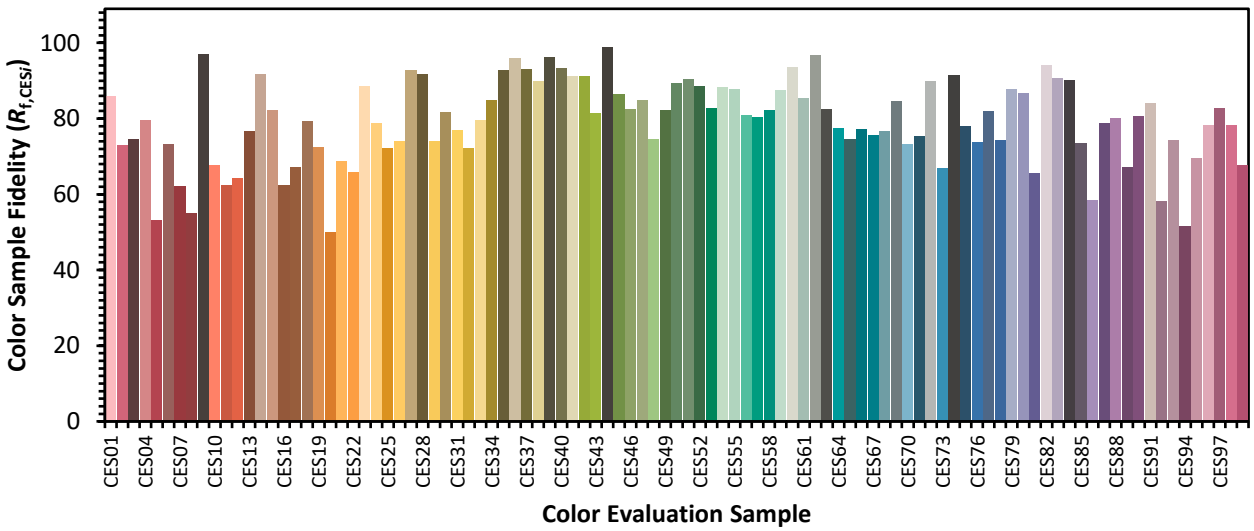


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

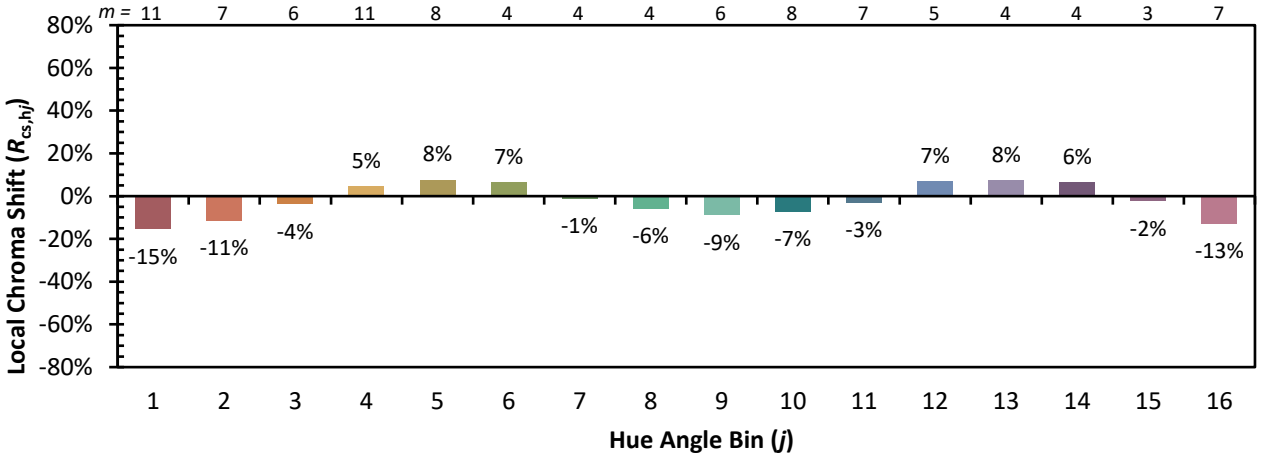
CES01 = 87	CES26 = 74	CES51 = 90	CES76 = 74
CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82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

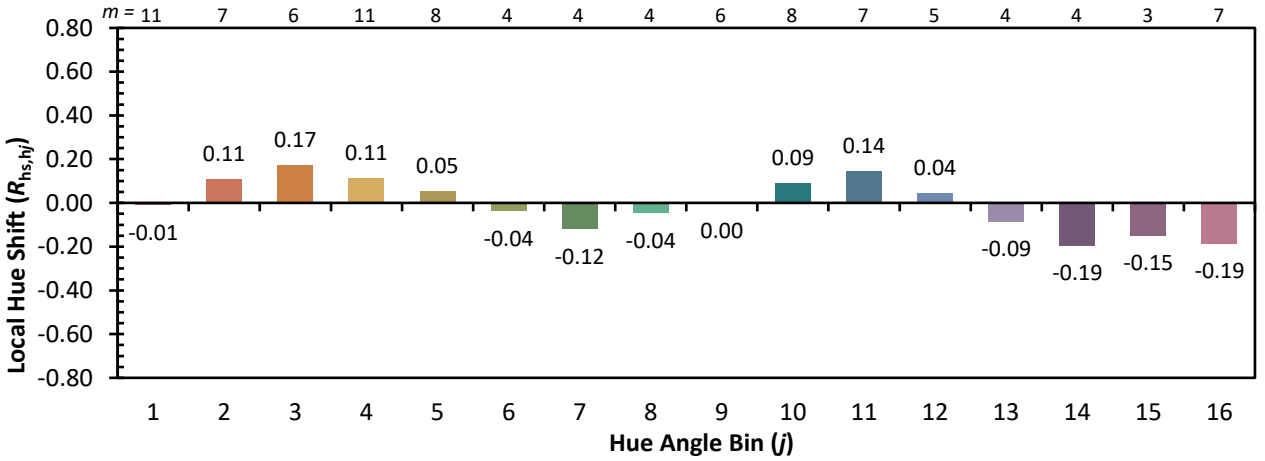


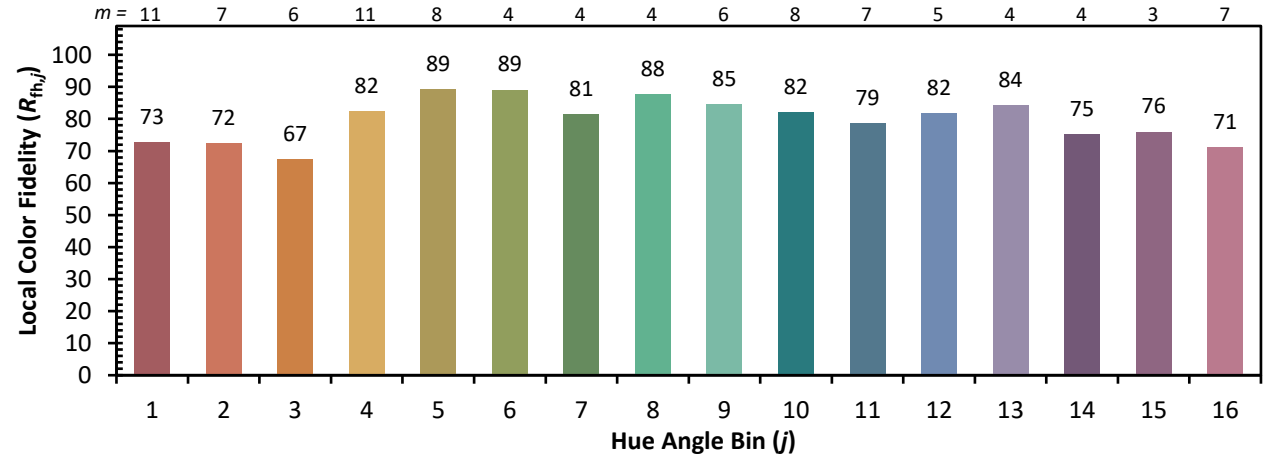
REPORT NUMBER: SP1-2501-332-8

TM-30-18

Color Rendition by Hue-Angle Bin



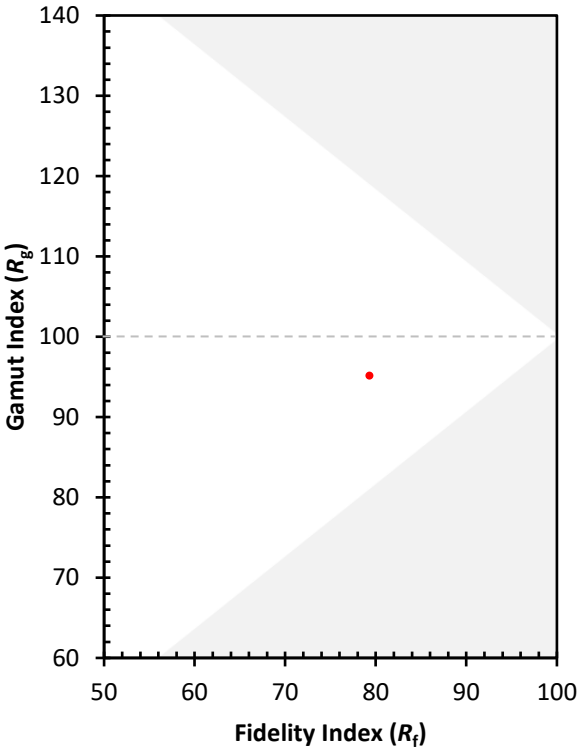


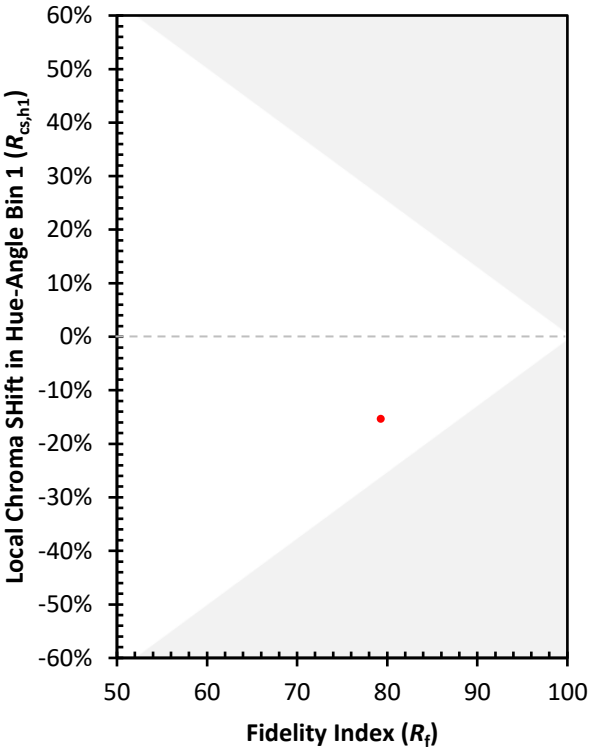


REPORT NUMBER: SP1-2501-332-8

TM-30-18

Measure Comparisons





(END OF REPORT)