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: P981477

Luminaire Tested: **FFX-CLB-20-730-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981477
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-730-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3096.2 lumens
Efficiency:	N/A
Efficacy:	156.4 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

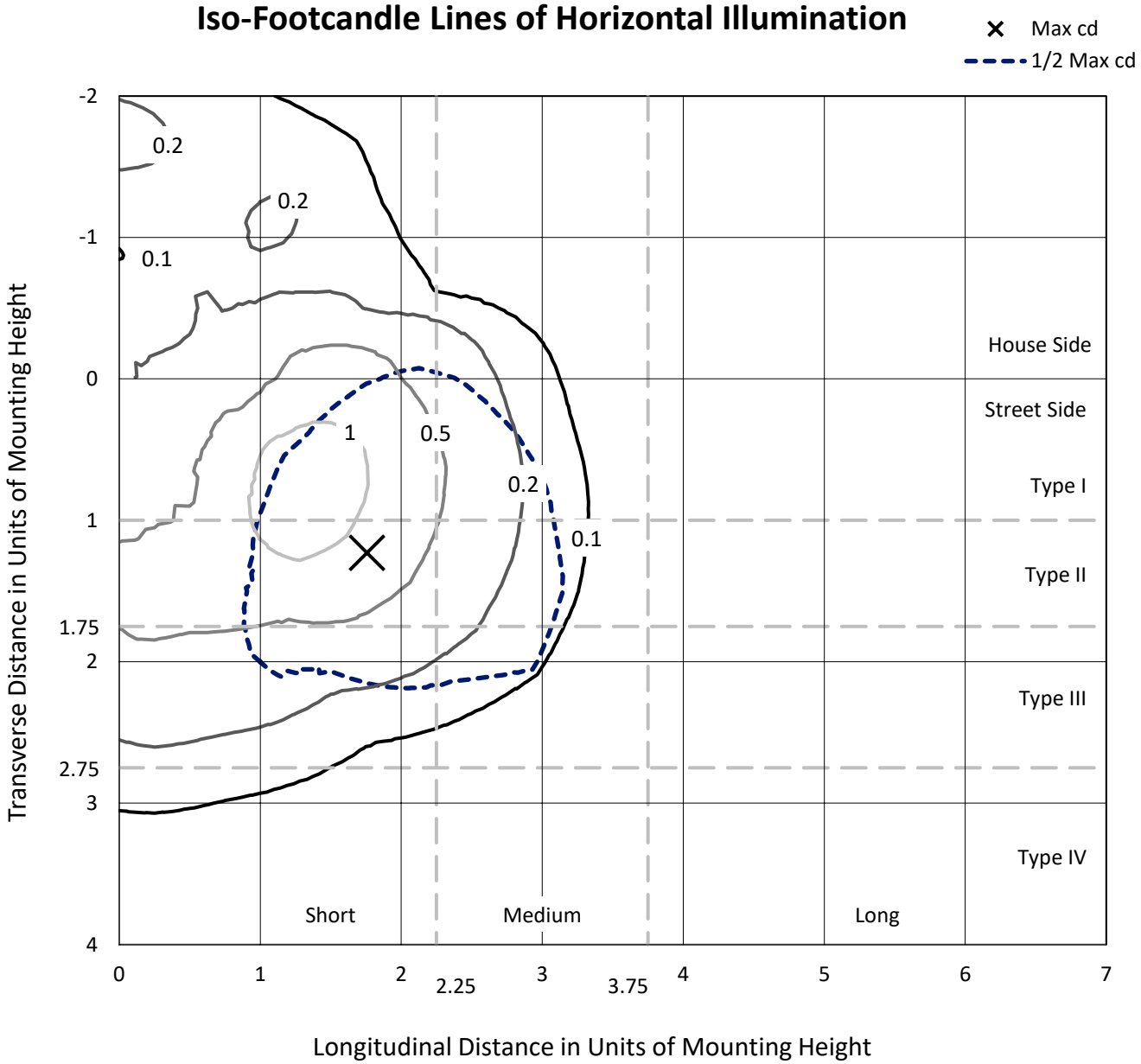


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Iso-Footcandle Lines of Horizontal Illumination



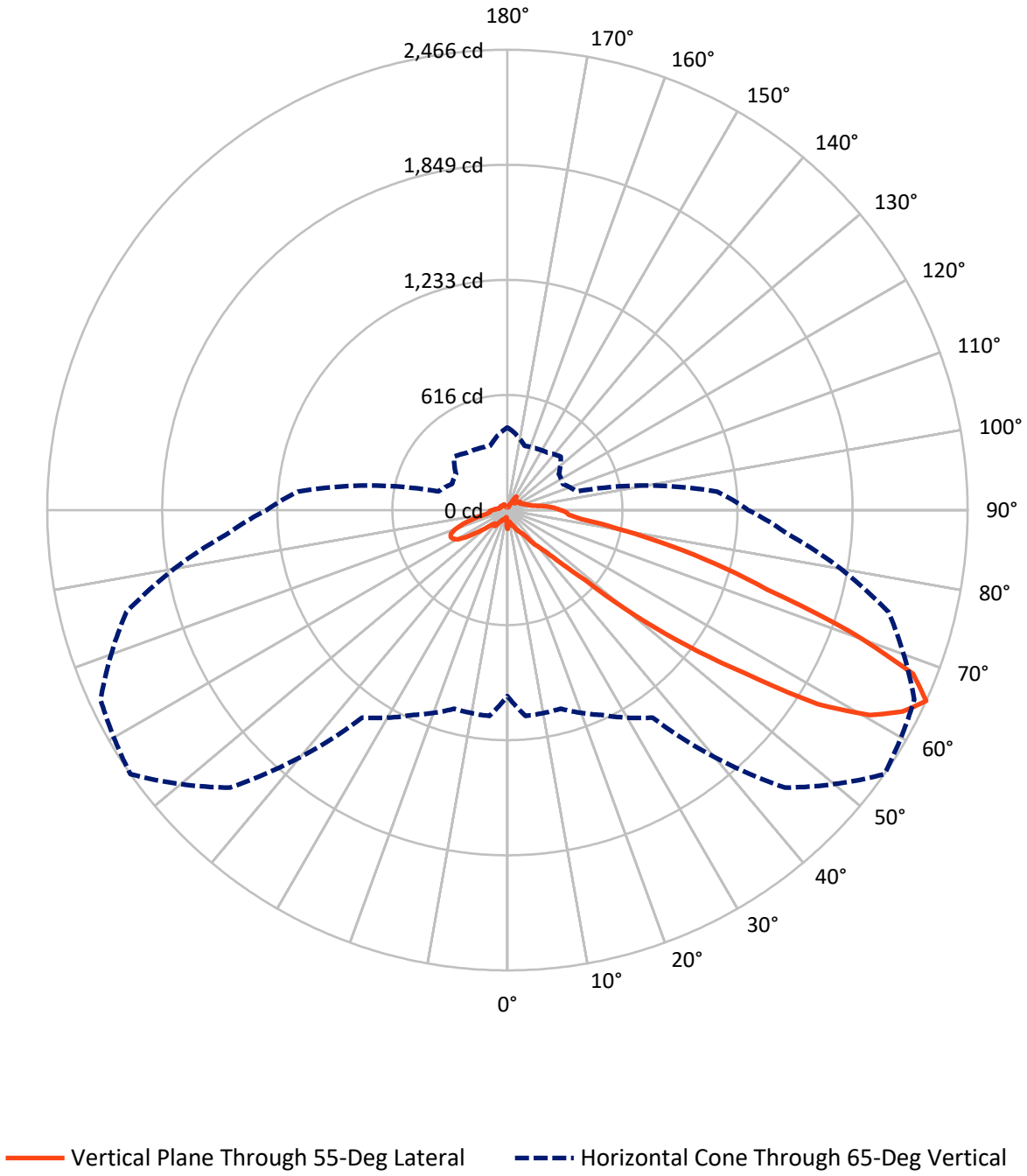
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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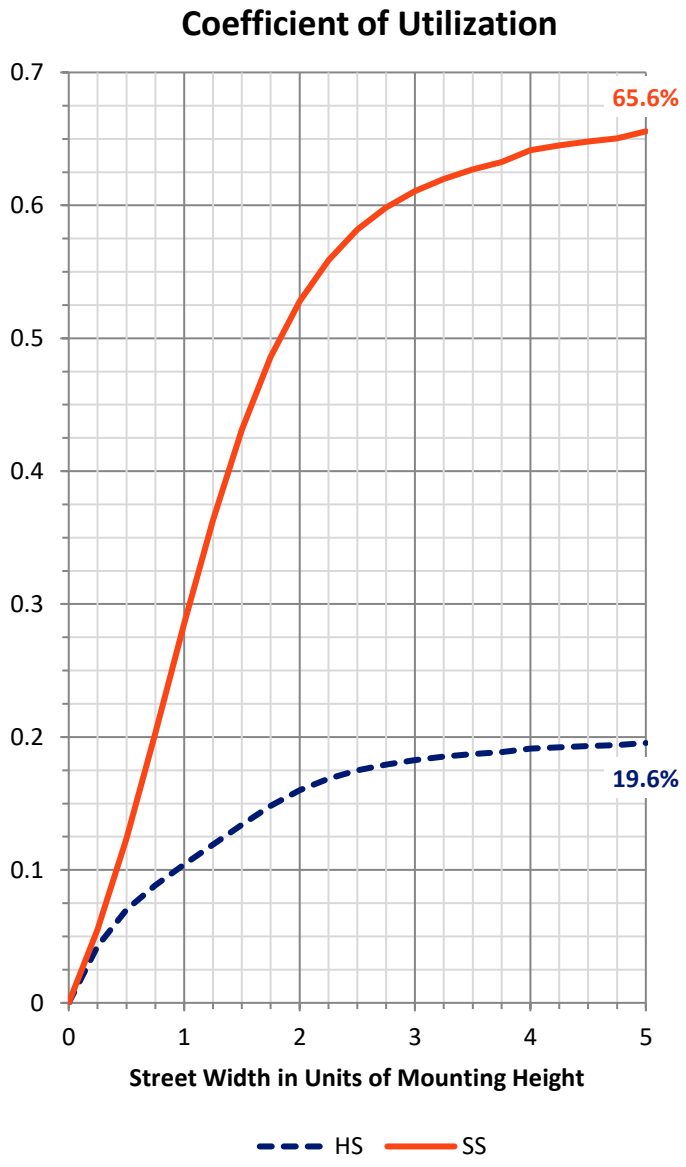
REPORT NUMBER: P981477
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.0	122.7	751.7
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	2098.9	245.6	2344.5
	% Fixture	67.8	7.9	75.7
Total	Lumens	2727.9	368.4	3096.2
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.2
10°-20°	18.9	0.6
20°-30°	38.7	1.3
30°-40°	83.9	2.7
40°-50°	203.7	6.6
50°-60°	635.9	20.5
60°-70°	1010.5	32.6
70°-80°	538.5	17.4
80°-90°	191.9	6.2
90°-100°	116.7	3.8
100°-110°	69.1	2.2
110°-120°	54.0	1.7
120°-130°	45.0	1.5
130°-140°	32.9	1.1
140°-150°	30.2	1.0
150°-160°	13.7	0.4
160°-170°	5.2	0.2
170°-180°	1.5	0.0
0°-90°	2727.9	88.1
0°-180°	3096.2	100.0



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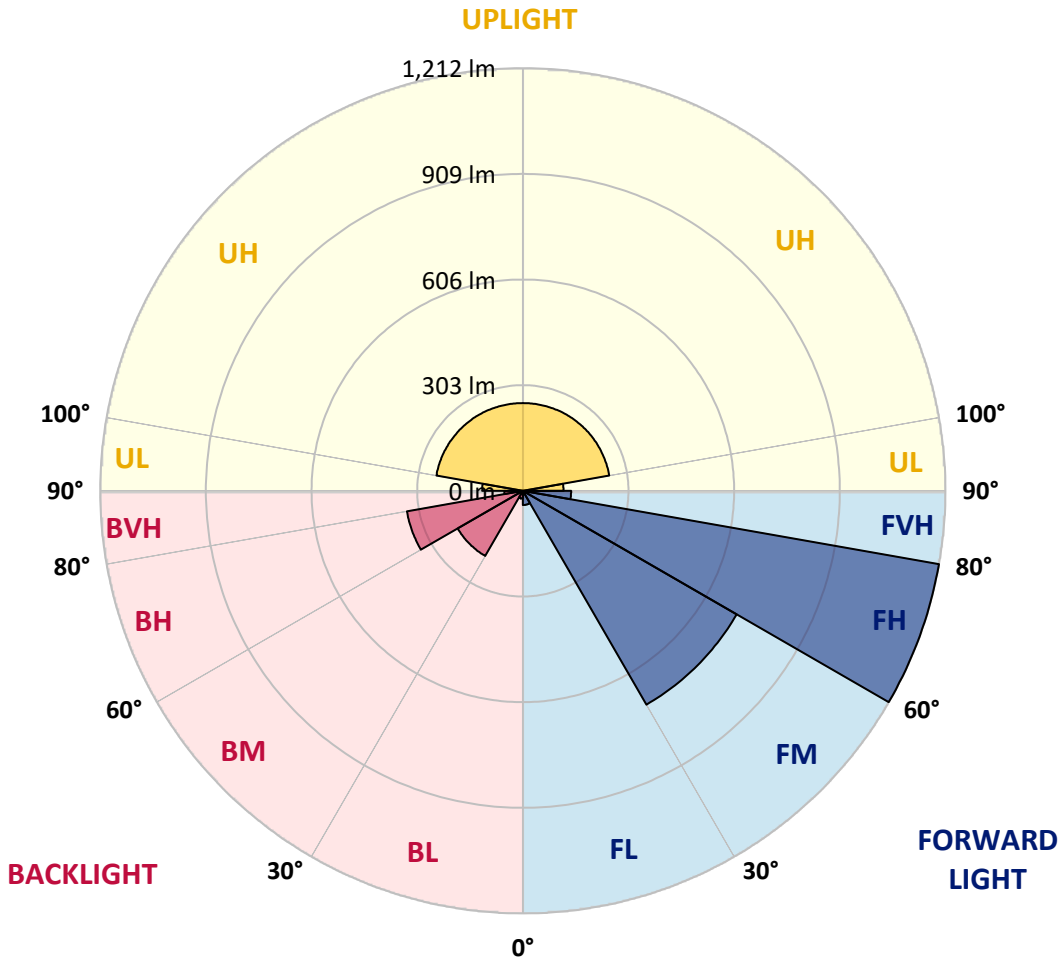
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	40.9	1.3			
FM	(30°-60°)	708.0	22.9			
FH	(60°-80°)	1211.5	39.1			G1/1800
FVH	(80°-90°)	138.5	4.5			G2/225
BL	(0°-30°)	22.5	0.7	B0/110		
BM	(30°-60°)	215.6	7.0	B0/220		
BH	(60°-80°)	337.4	10.9	B1/500		G1/500
BVH	(80°-90°)	53.4	1.7			G1/100
UL	(90°-100°)	116.7	3.8		U3/500	
UH	(100°-180°)	251.6	8.1		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	100.5	100.5	100.5	100.5	100.5	100.5	*100.5*	100.5	100.5	100.5	100.5
2.5°	60.0	60.4	67.1	72.4	78.9	77.0	*77.0*	91.2	100.7	114.5	113.3
5°	64.2	61.4	62.7	67.3	76.1	80.3	*75.7*	60.0	49.7	53.9	58.9
7.5°	70.3	69.6	68.2	63.8	60.4	69.4	*82.0*	73.0	55.2	46.3	44.5
10°	71.9	72.1	71.7	72.1	73.8	69.8	*62.7*	57.0	55.4	54.5	53.9
12.5°	87.0	86.8	87.7	86.6	82.6	77.8	*79.3*	75.1	66.9	61.2	59.8
15°	101.5	101.1	100.9	96.9	90.4	82.6	*78.9*	80.7	75.5	69.0	66.1
17.5°	107.4	107.4	103.2	97.5	93.5	88.1	*85.1*	83.1	79.1	74.9	71.3
20°	105.1	104.9	100.7	98.4	98.8	96.3	*93.7*	90.6	86.6	79.9	75.5
22.5°	103.8	103.8	102.3	101.7	105.3	104.4	*103.8*	99.8	94.6	84.7	79.1
25°	112.0	111.4	109.5	109.5	112.8	115.6	*116.6*	113.5	104.9	90.0	84.7
27.5°	120.0	119.8	117.2	117.9	120.0	125.4	*127.1*	125.6	113.9	94.4	89.8
30°	129.6	128.1	126.0	129.8	129.4	136.9	*139.3*	140.9	126.0	103.4	97.9
32.5°	139.9	139.0	137.4	142.2	143.9	150.8	*152.7*	161.1	142.6	119.5	113.9
35°	157.3	156.7	161.1	170.5	170.3	183.3	*178.3*	190.8	173.4	148.7	143.0
37.5°	235.7	232.2	227.1	218.1	217.5	235.5	*229.9*	239.7	215.2	180.4	174.1
40°	245.4	244.7	242.4	232.2	226.3	257.1	*260.9*	290.0	249.6	209.7	197.6
42.5°	239.7	240.6	271.4	277.9	265.9	303.9	*310.2*	361.4	288.4	254.4	232.2
45°	289.0	290.3	300.3	304.9	304.1	399.5	*415.0*	477.8	356.3	317.1	276.0
47.5°	330.9	326.5	344.8	380.0	404.1	511.9	*561.9*	658.1	478.8	420.9	344.8
50°	454.7	453.6	497.7	536.3	560.2	736.6	*890.3*	996.0	701.7	610.3	481.1
52.5°	538.6	574.2	616.4	705.7	727.3	1002.3	*1210.3*	1295.0	969.8	801.6	656.9
55°	623.7	675.1	722.3	861.3	933.1	1302.2	*1539.0*	1562.2	1273.7	974.6	828.8
57.5°	782.1	868.7	899.1	1010.0	1114.9	1647.8	*1961.8*	1937.0	1587.0	1175.3	1020.9
60°	925.3	1029.5	1020.7	1129.4	1264.2	1929.5	*2230.2*	2204.2	1873.7	1353.6	1168.6
62.5°	973.3	1078.4	1066.4	1184.7	1357.1	2080.5	*2376.6*	2332.1	2061.4	1467.9	1250.4
65°	*995.8*	*1107.3*	*1101.5*	*1211.8*	*1357.1*	*2102.3*	*2465.7*	*2404.9*	*2113.8*	*1511.9*	*1289.8*
67.5°	976.1	1083.6	1087.4	1185.4	1277.2	1944.8	*2344.1*	2261.5	1982.5	1406.2	1219.3
70°	853.2	928.4	919.0	1007.7	1016.7	1556.8	*1945.4*	1855.4	1610.7	1172.6	1009.0
72.5°	704.9	723.1	715.4	771.4	781.9	1140.3	*1454.0*	1403.1	1202.8	872.5	770.9
75°	562.1	559.1	575.1	588.1	577.2	837.0	*1151.4*	1093.5	889.9	657.1	593.3
77.5°	388.8	366.4	408.3	412.3	395.1	556.6	*849.4*	827.4	637.8	484.3	437.3
80°	218.5	221.0	251.0	268.9	262.6	354.2	*591.0*	576.5	435.6	338.5	300.7
82.5°	168.6	176.2	190.2	203.6	194.8	271.0	*399.7*	400.8	318.6	247.3	225.9
85°	185.4	189.4	191.3	191.7	184.8	251.9	*331.4*	327.0	270.5	207.0	200.3
87.5°	180.8	185.0	185.6	185.8	179.7	239.9	*313.7*	306.8	258.0	198.8	188.5
90°	155.0	162.1	163.0	168.4	161.3	214.3	*276.2*	269.3	232.6	179.3	169.7
92.5°	133.2	136.9	140.9	147.4	139.9	186.7	*247.3*	238.7	208.3	162.1	148.9
95°	121.8	123.9	127.3	129.8	121.0	158.6	*206.8*	197.8	169.0	130.4	118.7
97.5°	97.9	99.8	101.3	104.4	98.4	125.6	*160.4*	152.1	132.5	103.8	95.0
100°	83.7	84.9	86.6	88.7	83.7	105.3	*131.7*	127.9	110.3	87.7	82.0
102.5°	76.5	77.6	80.5	80.5	77.4	96.3	*117.7*	114.7	99.2	79.5	75.7
105°	73.8	74.0	76.5	75.5	73.4	89.8	*109.7*	105.9	92.9	75.5	71.1
107.5°	70.3	70.5	73.6	71.9	70.3	83.3	*99.4*	97.7	86.0	70.5	66.7
110°	66.7	67.3	71.3	69.8	68.8	78.2	*93.1*	90.0	82.2	68.2	65.0

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REPORT NUMBER: P981477
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	64.0	64.4	68.2	67.1	66.3	74.9	*86.4*	86.4	80.3	68.2	64.0
115°	61.7	62.5	65.6	63.5	62.1	70.5	*79.7*	80.1	75.1	65.0	60.8
117.5°	57.7	59.6	61.2	62.1	60.4	67.5	*75.7*	75.3	72.6	62.7	59.8
120°	65.6	64.2	65.4	66.9	64.2	69.8	*76.8*	76.8	74.0	61.7	59.1
122.5°	68.6	66.5	67.7	66.3	66.1	73.4	*82.0*	82.6	77.0	63.5	57.3
125°	60.8	60.0	58.5	58.1	59.8	66.7	*74.5*	77.2	71.1	60.8	53.5
127.5°	52.0	51.0	49.1	50.1	53.3	60.2	*64.2*	65.6	63.1	56.4	51.0
130°	48.0	47.8	49.3	51.2	53.7	59.6	*60.8*	62.9	62.9	54.9	51.8
132.5°	43.8	44.0	48.7	55.2	57.0	58.3	*55.6*	59.6	61.4	56.0	52.4
135°	43.2	43.4	45.9	51.2	51.4	52.2	*52.4*	57.5	58.7	53.5	49.5
137.5°	47.2	47.2	45.3	46.3	48.7	54.9	*57.0*	61.0	60.0	50.5	44.7
140°	52.0	51.0	45.1	45.3	49.3	57.0	*59.8*	62.3	61.0	49.5	42.6
142.5°	43.0	43.4	44.5	48.4	53.1	70.7	*68.4*	74.7	72.1	52.4	41.5
145°	67.1	67.3	66.1	67.7	70.7	94.0	*86.8*	96.9	99.8	68.6	49.3
147.5°	73.4	74.2	71.9	70.5	78.9	86.0	*78.0*	86.4	92.1	71.9	52.9
150°	57.3	57.0	55.6	57.7	63.3	62.9	*58.7*	61.7	64.0	54.9	45.3
152.5°	40.7	40.1	39.2	39.4	46.1	44.5	*43.2*	45.7	45.7	42.2	36.3
155°	33.8	33.8	33.3	34.4	38.2	35.2	*34.2*	33.8	33.3	32.3	30.0
157.5°	28.5	29.2	28.5	29.8	32.3	29.6	*28.9*	28.3	28.5	28.5	27.9
160°	23.7	23.7	23.3	25.4	26.2	24.1	*23.1*	22.7	22.7	23.9	23.9
162.5°	19.9	19.9	20.1	21.0	21.6	20.1	*19.5*	19.5	20.1	22.0	22.0
165°	17.2	17.2	17.4	18.0	18.5	17.6	*17.2*	17.4	19.1	20.8	20.8
167.5°	15.7	15.7	15.7	15.9	16.1	15.7	*15.7*	16.6	18.0	19.1	19.1
170°	14.9	14.9	14.7	14.9	14.9	14.9	*15.7*	16.6	17.2	17.2	17.2
172.5°	15.1	15.1	14.9	15.1	15.1	14.9	*15.9*	17.0	16.6	16.4	16.4
175°	15.5	15.5	15.5	15.7	15.7	15.3	*15.1*	15.5	15.9	15.9	15.7
177.5°	15.5	15.5	15.3	15.5	15.3	14.9	*14.7*	14.5	14.5	14.3	14.3
180°	14.5	14.5	14.5	14.5	14.5	14.5	*14.5*	14.5	14.5	14.5	14.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	102.6	88.5	78.0	86.2	104.2	113.3	104.2	79.3	55.8	48.9
5°	61.4	59.8	53.9	52.6	54.9	52.9	58.7	55.6	44.0	44.5
7.5°	45.9	55.6	53.7	38.4	35.9	33.6	35.4	40.5	41.7	39.0
10°	53.3	48.0	41.9	39.0	42.6	45.9	43.6	38.0	32.7	31.2
12.5°	58.7	58.3	58.9	52.9	43.4	40.1	38.8	41.7	50.8	52.9
15°	63.1	58.3	53.9	52.6	46.3	43.0	41.3	40.5	38.8	37.5
17.5°	67.5	59.6	54.7	49.9	46.8	43.6	40.1	38.2	38.0	38.2
20°	70.5	63.1	57.5	52.0	48.0	43.8	40.3	38.6	38.6	38.6
22.5°	74.0	66.9	60.8	53.9	49.3	44.7	41.7	40.1	39.8	39.8
25°	79.9	71.9	64.8	57.3	52.2	48.0	44.0	41.9	41.3	41.1
27.5°	86.6	77.8	69.2	61.4	56.2	51.6	46.3	43.2	42.4	42.2
30°	95.2	85.1	74.2	66.1	59.6	55.2	48.9	45.1	43.4	43.2
32.5°	109.3	96.1	81.8	72.8	65.0	59.1	52.2	47.6	44.9	44.3
35°	136.3	120.2	98.8	85.8	73.4	64.2	55.2	49.1	46.3	45.9
37.5°	166.5	142.0	121.2	106.1	91.0	75.5	59.8	51.4	48.0	47.4
40°	179.5	156.2	134.2	110.5	107.2	95.0	73.4	57.0	50.3	49.3
42.5°	208.0	174.9	145.1	97.7	105.5	104.9	90.6	69.8	56.6	54.1
45°	245.0	199.0	161.5	104.4	106.3	102.6	92.9	80.7	68.8	66.1
47.5°	305.1	222.5	166.7	117.4	119.5	110.5	97.3	85.1	76.5	75.5
50°	435.8	291.5	186.0	142.2	148.9	128.1	111.8	101.3	91.0	89.1
52.5°	592.5	345.4	205.9	177.4	201.5	171.8	147.0	127.7	127.1	124.6
55°	757.5	366.2	232.4	216.2	253.8	228.0	203.9	186.2	195.3	196.1
57.5°	942.9	388.4	270.5	267.0	317.1	276.0	255.7	260.5	324.4	349.4
60°	1066.4	406.7	303.5	308.9	375.0	334.9	319.6	330.3	439.0	484.5
62.5°	1121.4	397.4	319.6	329.1	399.9	370.8	368.3	373.9	466.0	508.6
65°	*1128.9*	*383.8*	*328.4*	*336.6*	*404.3*	*374.6*	*363.9*	*355.9*	*417.1*	*442.1*
67.5°	1036.2	354.9	321.5	330.1	384.4	348.8	322.1	304.1	339.5	342.1
70°	843.3	316.9	298.0	301.2	328.4	291.9	266.8	251.2	259.4	256.1
72.5°	653.9	279.4	265.5	258.2	266.3	235.1	205.3	197.4	205.1	201.5
75°	496.8	249.6	234.3	209.5	222.9	181.0	147.9	140.7	144.1	139.3
77.5°	365.3	201.1	183.3	155.0	173.4	131.3	99.8	92.5	93.7	89.1
80°	266.6	148.7	134.0	111.2	125.0	93.3	72.1	70.9	70.7	67.7
82.5°	205.9	118.1	107.2	95.6	97.9	82.4	68.4	66.3	66.3	61.9
85°	191.1	114.3	103.2	95.0	95.6	79.9	65.0	63.8	64.4	59.8
87.5°	178.5	111.8	102.8	92.9	88.1	72.4	58.5	60.0	60.4	56.4
90°	153.1	99.4	91.2	81.8	76.1	61.4	52.4	55.2	55.6	52.0
92.5°	134.2	85.4	78.4	71.1	68.6	57.7	50.3	52.4	52.4	49.3
95°	107.0	69.8	66.7	63.1	62.5	53.9	47.0	48.0	47.6	44.9
97.5°	87.0	60.6	57.9	54.5	52.4	46.1	41.3	42.4	42.6	40.7
100°	76.5	56.0	52.2	48.4	46.3	41.5	37.8	39.6	40.9	39.2
102.5°	71.5	53.5	49.3	45.3	43.6	39.2	35.7	37.3	39.0	37.5
105°	68.0	51.6	47.2	43.6	41.5	37.1	33.6	34.0	36.1	35.2
107.5°	63.3	51.6	45.9	42.4	39.8	35.9	31.7	31.2	32.5	32.3
110°	61.7	51.6	45.1	41.5	38.8	35.2	31.5	29.8	30.4	30.4

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

Scaled Data Report

REPORT NUMBER: P981477
CATALOG NUMBER: FFX-CLB-20-730-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	60.2	51.2	44.3	40.1	37.8	34.8	31.0	28.5	29.2	29.6
115°	56.8	47.2	41.7	37.3	35.0	31.9	29.4	27.5	27.7	28.1
117.5°	54.9	43.6	40.5	36.5	34.8	32.9	30.6	27.1	27.1	27.5
120°	54.9	43.0	41.5	40.1	39.2	36.1	32.3	27.1	26.4	26.4
122.5°	54.1	47.8	45.3	41.9	39.6	35.4	30.8	26.4	26.0	26.0
125°	49.7	45.7	41.7	37.8	35.0	31.7	28.9	26.6	25.8	25.8
127.5°	47.4	41.1	37.3	34.2	32.3	30.6	28.9	26.6	25.6	25.4
130°	48.0	41.5	36.7	34.2	32.7	31.0	29.2	26.2	24.5	24.3
132.5°	48.4	40.1	35.4	33.3	32.3	31.0	28.5	24.7	22.9	22.9
135°	43.8	36.1	34.0	32.5	31.9	30.8	27.1	23.5	22.0	21.8
137.5°	39.8	35.0	33.6	32.1	31.0	29.6	26.6	23.1	21.2	21.0
140°	38.2	34.2	32.1	29.4	28.1	25.2	23.1	21.0	20.3	20.1
142.5°	36.3	32.1	29.6	27.3	26.6	25.6	24.3	21.0	18.9	18.9
145°	43.4	38.6	35.7	33.3	30.4	28.3	24.3	20.1	17.4	17.0
147.5°	45.5	41.1	38.2	35.0	29.6	25.0	20.6	17.6	16.6	16.1
150°	39.8	36.1	32.9	29.6	24.7	21.6	18.7	16.8	16.4	16.4
152.5°	31.7	29.6	26.2	23.9	20.8	18.9	17.2	16.1	15.7	15.7
155°	26.2	24.5	22.7	20.8	19.1	17.8	16.8	15.9	15.5	15.5
157.5°	25.4	22.9	21.2	19.5	18.5	17.2	16.4	15.5	15.3	15.1
160°	23.1	20.1	18.7	17.6	17.4	17.0	16.4	15.7	15.5	15.3
162.5°	21.4	18.5	17.4	16.8	17.4	17.8	17.4	16.6	15.9	15.7
165°	20.1	17.4	16.6	16.6	17.8	18.5	17.4	16.6	16.6	16.4
167.5°	18.7	17.8	16.8	16.6	17.6	18.9	19.1	17.6	17.0	16.8
170°	17.4	17.6	17.6	17.0	17.2	18.2	18.7	18.2	17.4	17.2
172.5°	16.6	17.0	17.8	17.4	17.4	17.8	18.2	17.8	17.2	17.0
175°	15.7	15.9	15.5	15.7	16.4	17.0	16.8	16.6	16.4	16.4
177.5°	14.3	14.3	14.5	14.5	14.7	15.3	15.5	15.5	15.9	15.9
180°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

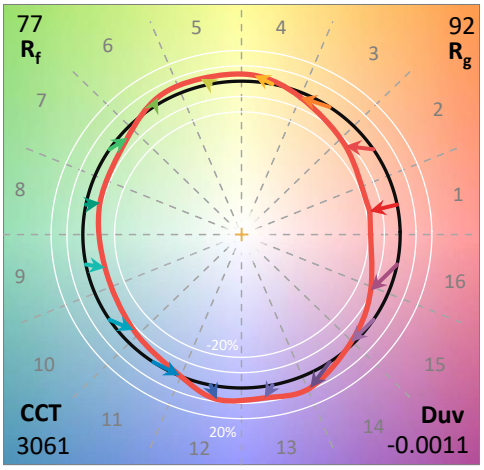
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

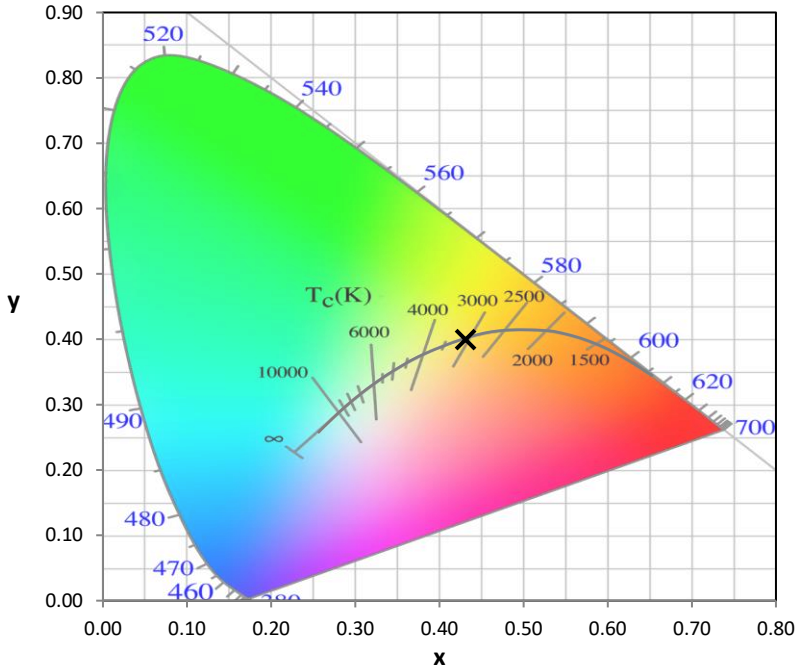
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

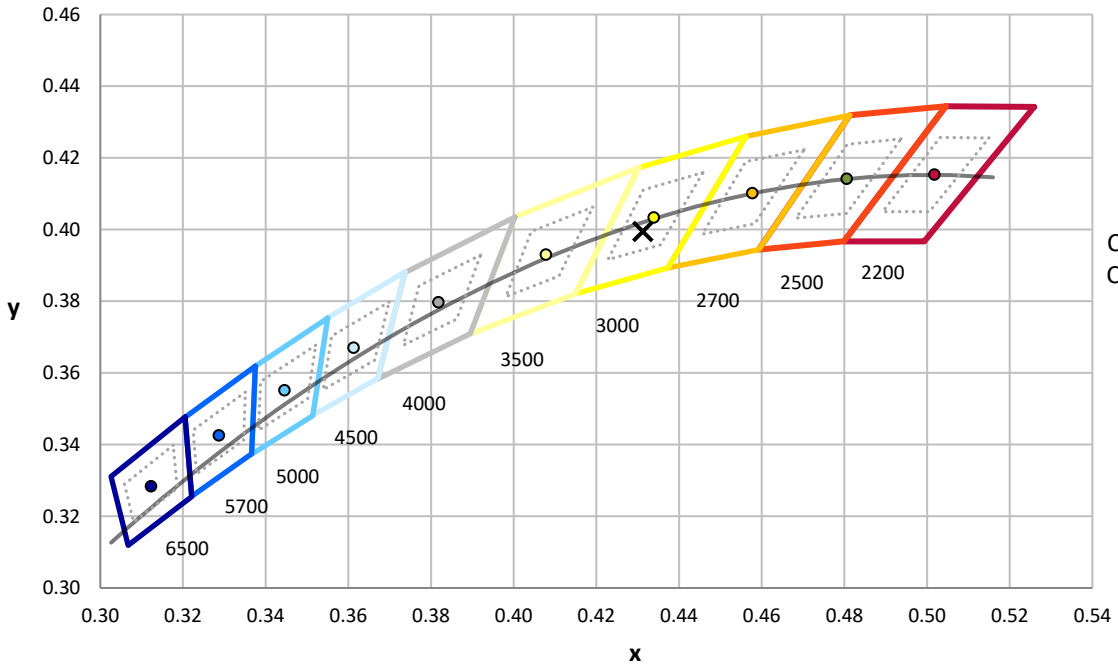
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

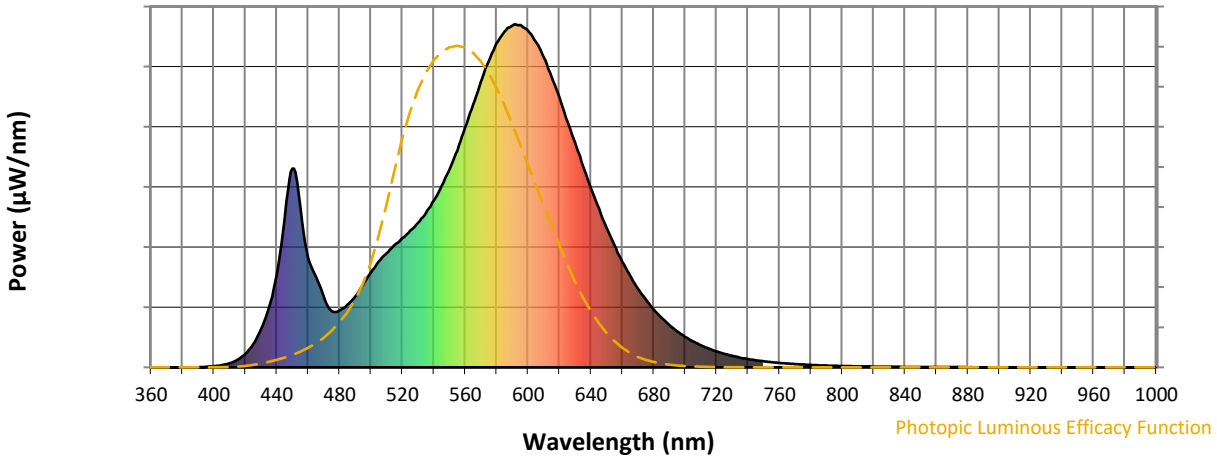


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

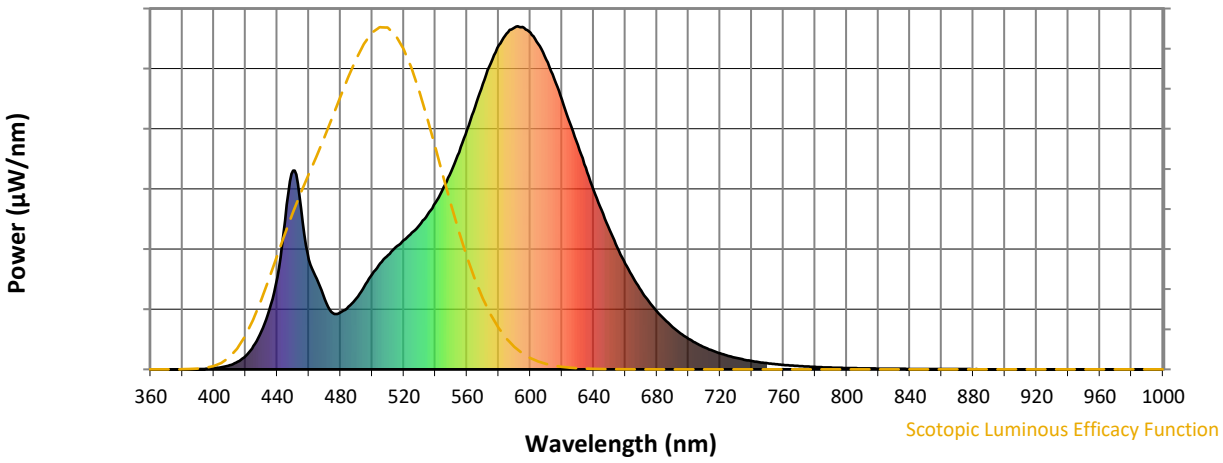


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

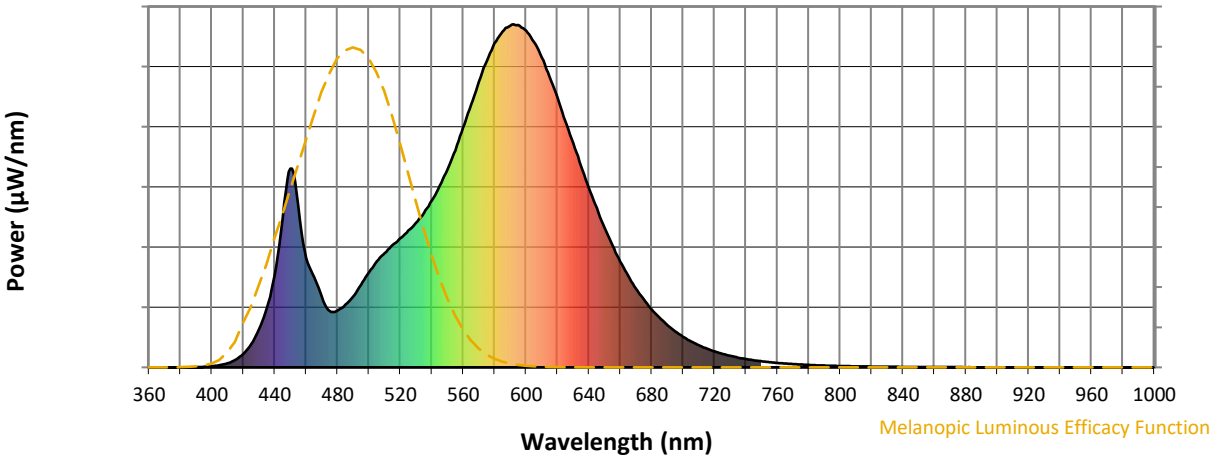


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

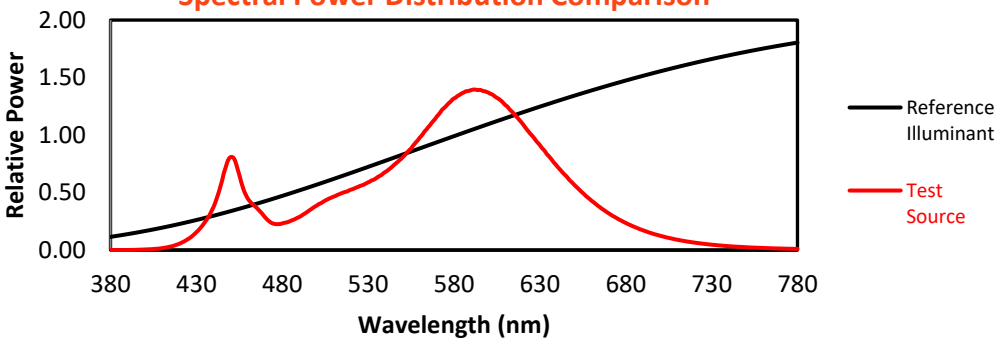
REPORT NUMBER: SP1-2501-332-4

TM-30-18

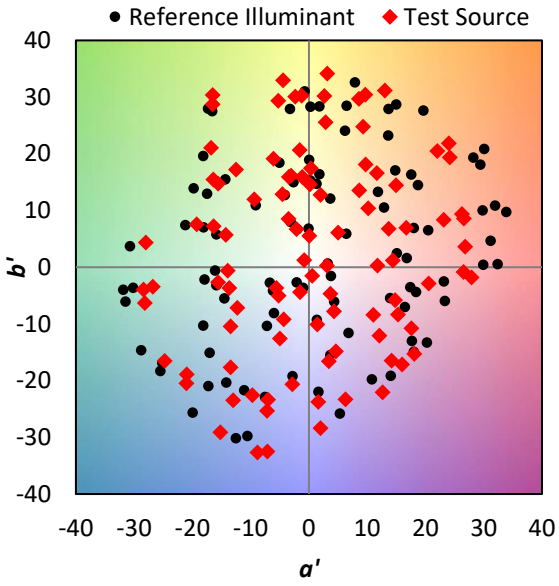
Summary

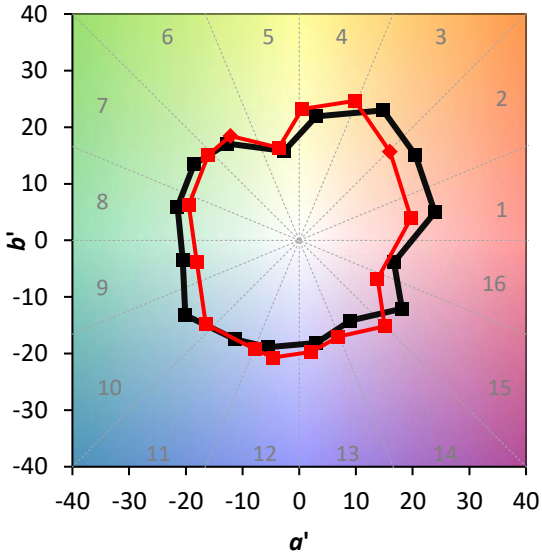
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

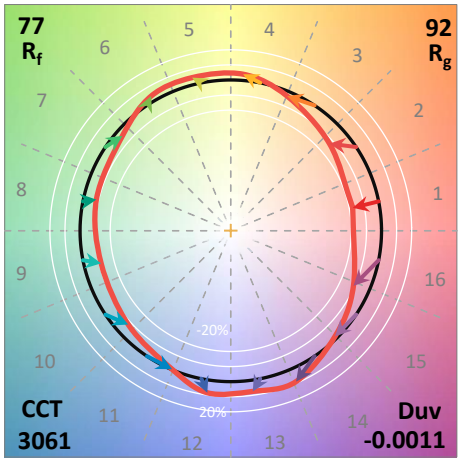
Spectral Power Distribution Comparison

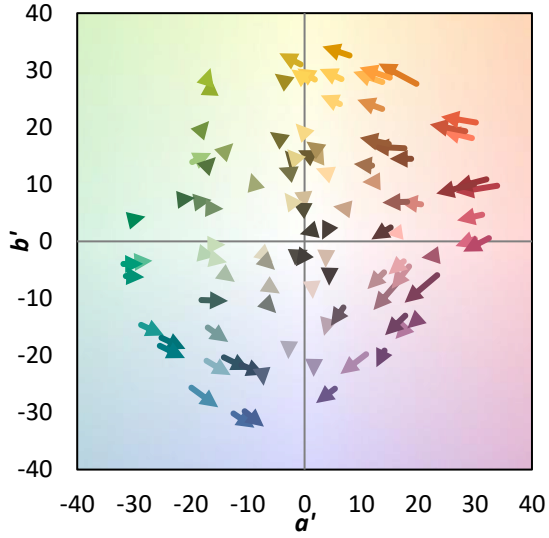


Color Vector Graphics







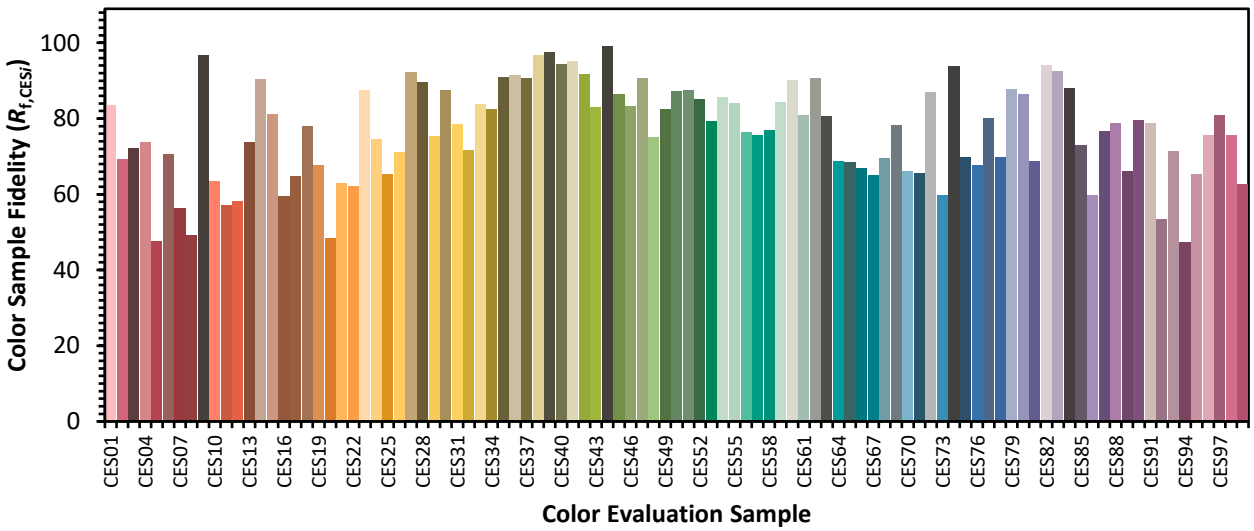


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

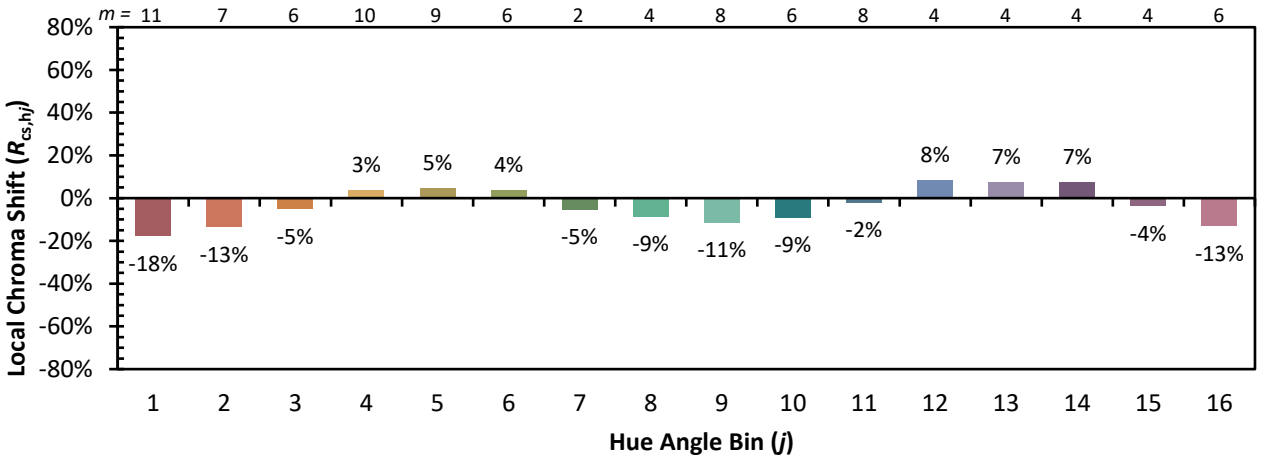
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

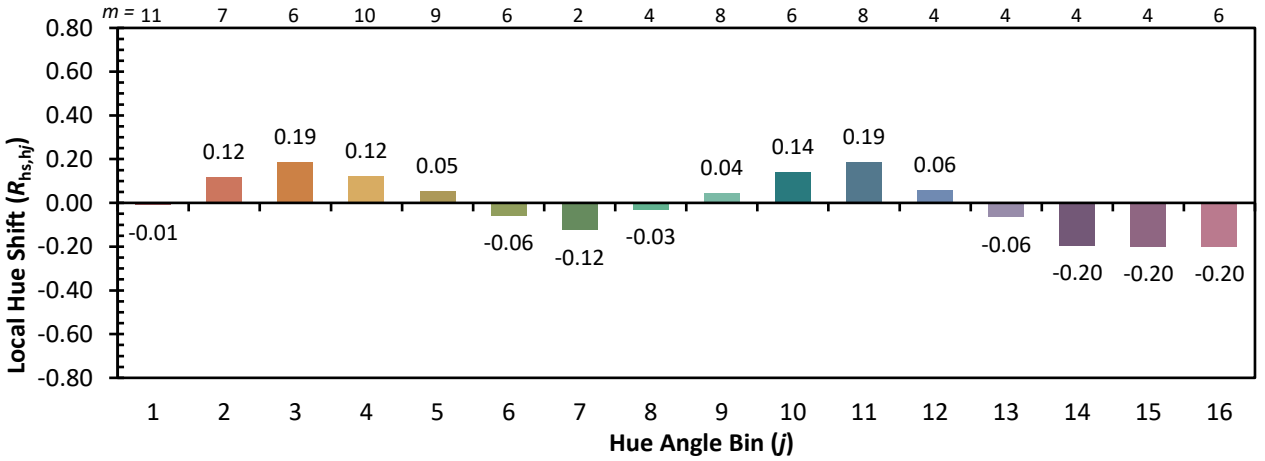


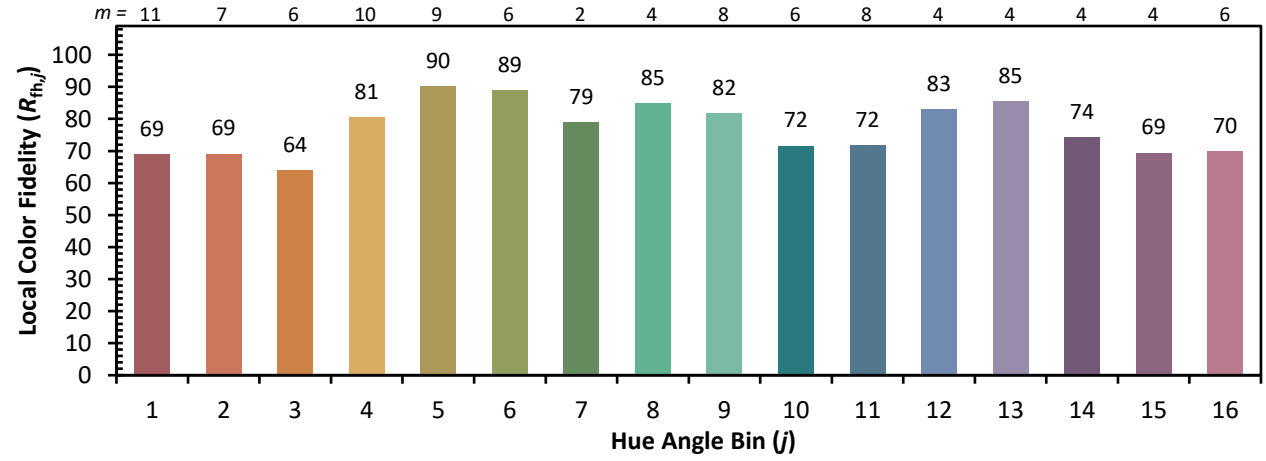
REPORT NUMBER: SP1-2501-332-4

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Color Rendition by Hue-Angle Bin



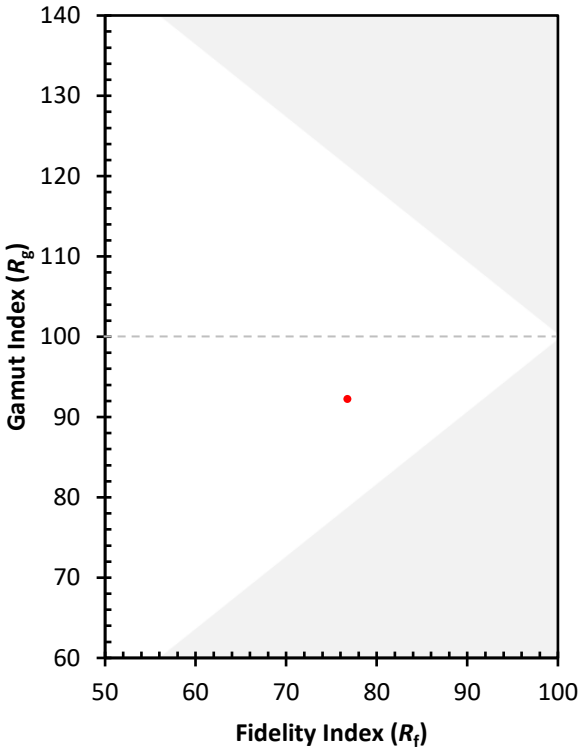


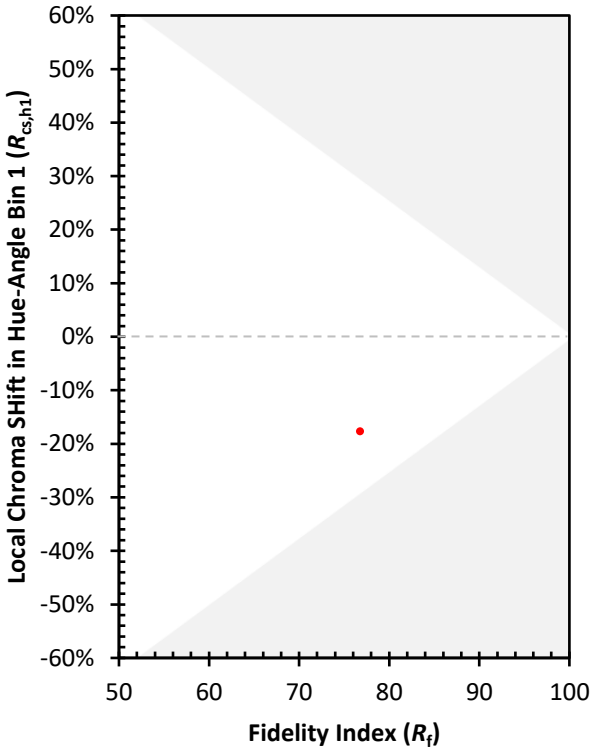


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Measure Comparisons





(END OF REPORT)