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: P1046235

Luminaire Tested: **FFX-CLB-20-722-U-FR-T4-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046235
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2427.5 lumens
Efficiency:	N/A
Efficacy:	122.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - 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

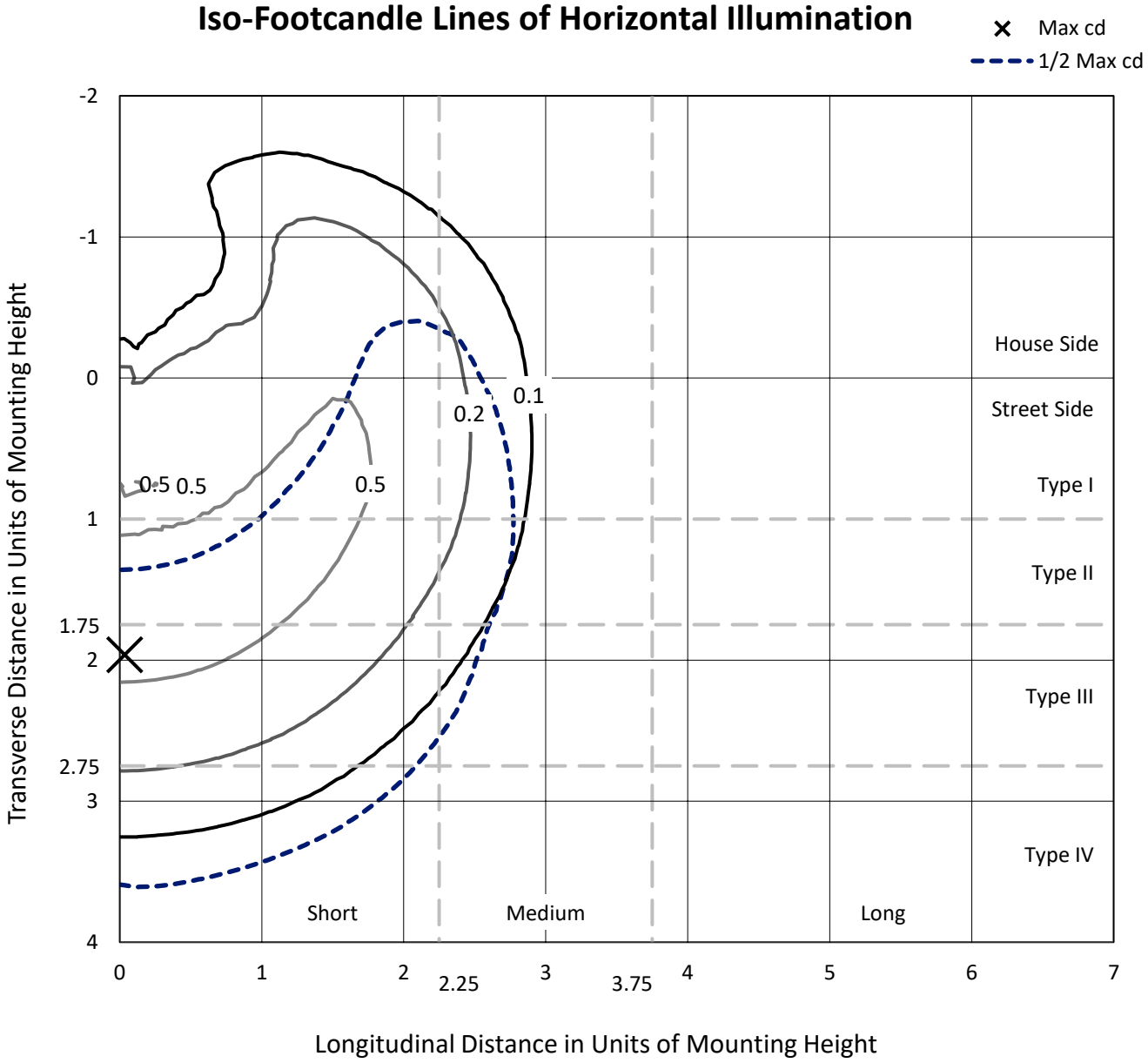


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Iso-Footcandle Lines of Horizontal Illumination



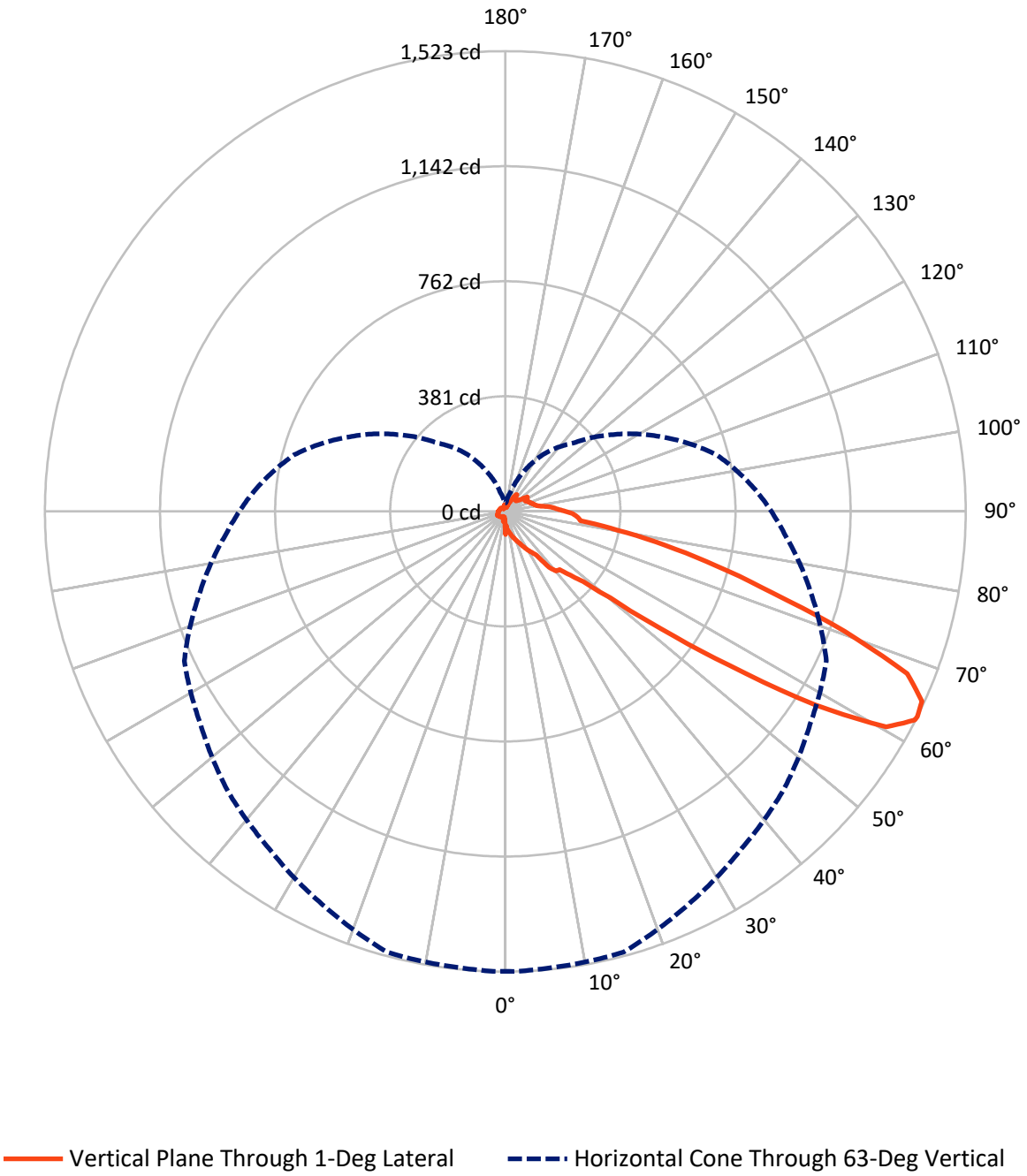
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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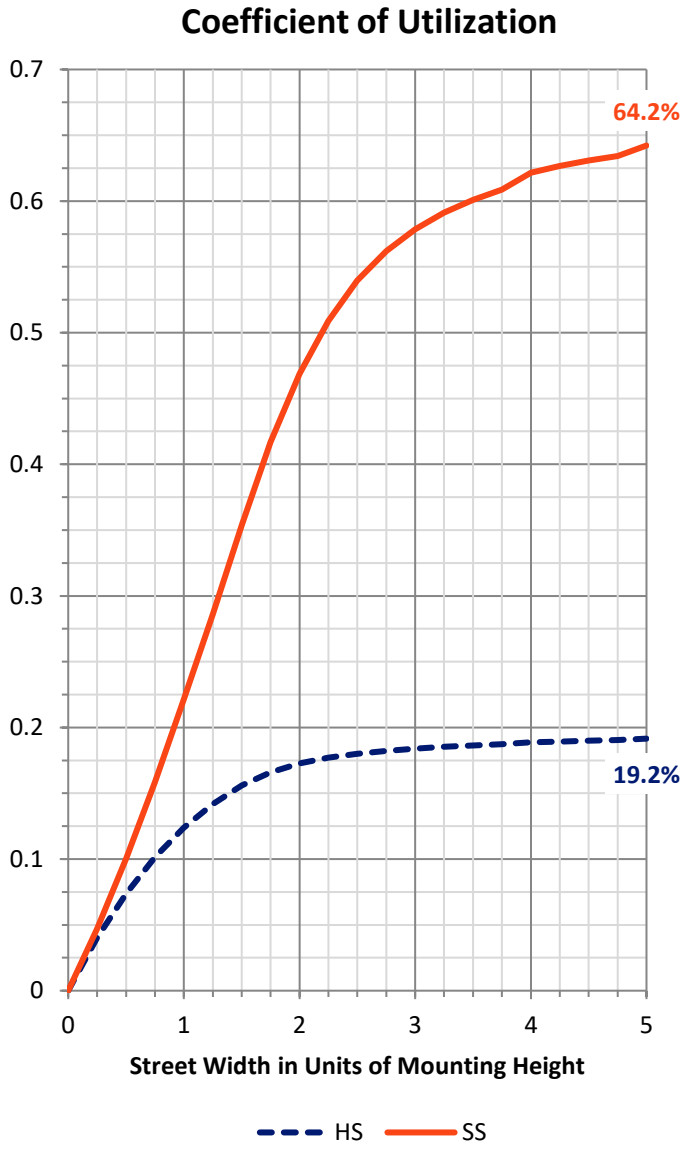
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.6	96.3	576.9
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	1628.3	222.3	1850.6
	% Fixture	67.1	9.2	76.2
Total	Lumens	2109.0	318.6	2427.5
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.2
10°-20°	16.0	0.7
20°-30°	35.2	1.5
30°-40°	72.1	3.0
40°-50°	145.6	6.0
50°-60°	469.9	19.4
60°-70°	774.1	31.9
70°-80°	426.7	17.6
80°-90°	164.9	6.8
90°-100°	98.8	4.1
100°-110°	63.0	2.6
110°-120°	48.1	2.0
120°-130°	41.1	1.7
130°-140°	27.5	1.1
140°-150°	23.5	1.0
150°-160°	10.7	0.4
160°-170°	4.3	0.2
170°-180°	1.5	0.1
0°-90°	2109.0	86.9
0°-180°	2427.5	100.0



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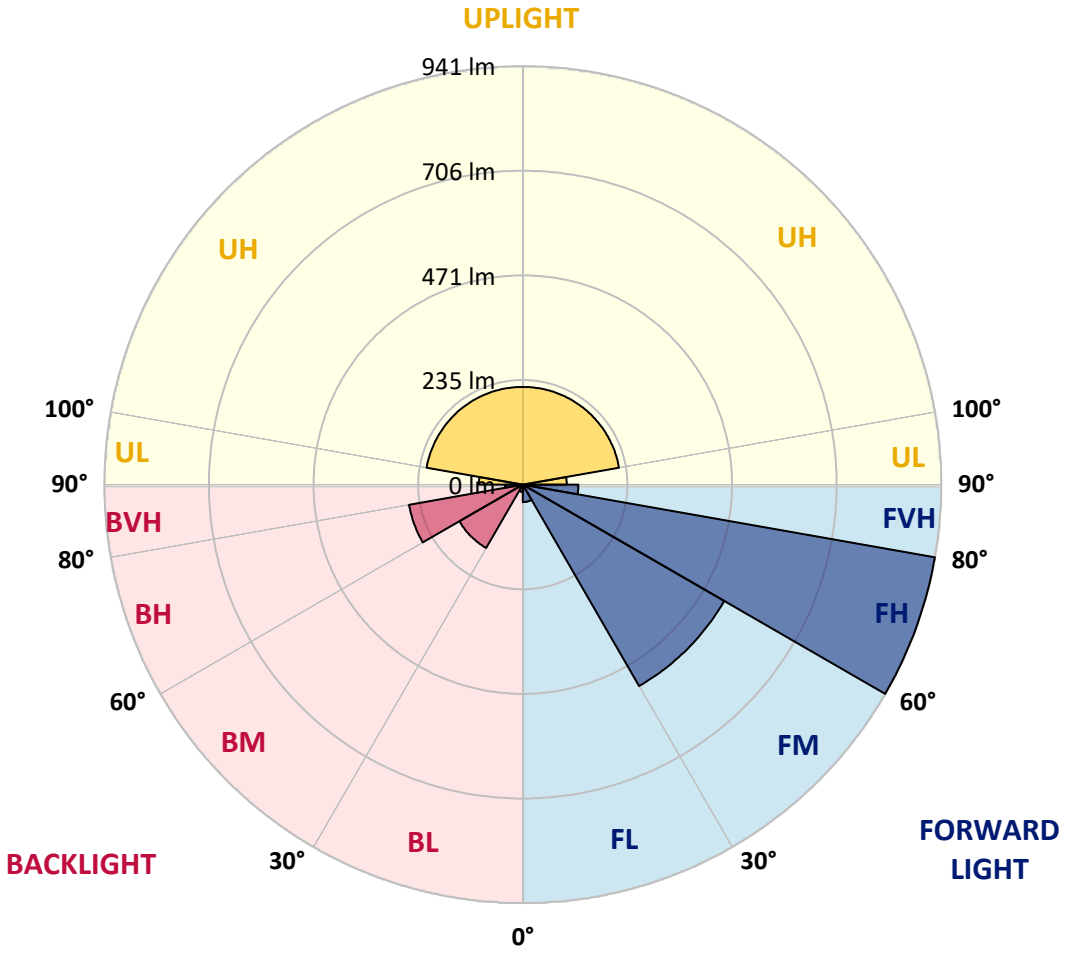
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	39.3	1.6			
FM	(30°-60°)	523.0	21.5			
FH	(60°-80°)	941.1	38.8			G1/1800
FVH	(80°-90°)	124.9	5.1			G2/225
BL	(0°-30°)	16.4	0.7	B0/110		
BM	(30°-60°)	164.5	6.8	B0/220		
BH	(60°-80°)	259.8	10.7	B1/500		G1/500
BVH	(80°-90°)	39.9	1.6			G1/100
UL	(90°-100°)	98.8	4.1		U3/500	
UH	(100°-180°)	219.7	9.1		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
2.5°	47.5	47.0	49.2	56.1	63.7	66.1	61.1	59.2	64.8	77.5	78.9
5°	54.7	55.6	55.1	55.9	56.6	62.0	66.8	61.8	50.1	40.9	41.6
7.5°	64.6	64.4	64.4	63.7	60.3	54.7	53.2	57.2	57.3	48.0	40.8
10°	68.9	68.7	68.7	68.0	67.3	67.9	66.1	58.9	53.0	49.2	46.8
12.5°	78.1	77.7	77.5	77.2	76.0	74.6	73.4	73.7	68.7	59.2	53.0
15°	85.7	85.3	85.7	86.0	85.1	82.7	79.3	74.4	69.9	66.0	60.4
17.5°	93.9	93.8	93.6	93.2	92.0	88.8	84.6	80.1	75.1	69.6	64.4
20°	101.9	101.5	101.7	101.9	101.4	97.4	93.2	87.7	82.4	77.0	71.0
22.5°	111.4	111.4	110.9	110.9	110.3	107.9	102.7	96.4	90.8	84.1	77.4
25°	123.6	123.1	123.1	122.6	120.5	117.9	114.3	107.1	100.5	94.1	85.1
27.5°	135.7	135.2	135.2	135.0	132.4	129.0	123.0	116.0	109.8	101.7	90.8
30°	149.5	149.2	149.4	147.5	145.4	140.6	133.0	125.0	116.9	107.4	96.9
32.5°	163.5	162.5	162.3	160.2	157.5	151.6	143.2	135.6	127.1	116.0	107.2
35°	179.9	177.7	180.1	179.6	179.2	173.0	163.4	154.6	144.5	134.5	125.0
37.5°	234.2	235.2	234.7	227.8	222.2	213.8	209.5	199.1	185.3	173.0	155.1
40°	259.7	259.4	258.5	250.9	245.9	237.1	230.2	222.4	214.3	195.1	172.9
42.5°	265.2	263.3	264.7	271.8	278.4	272.5	250.6	225.5	214.1	200.7	189.1
45°	305.6	300.8	302.9	304.8	298.4	289.9	280.4	264.2	245.0	225.7	204.5
47.5°	348.8	346.2	346.1	345.4	346.1	337.9	325.3	310.3	283.2	262.3	238.6
50°	454.0	450.5	451.6	452.4	448.8	440.5	426.9	417.0	384.6	344.5	313.8
52.5°	646.9	644.8	640.0	640.3	607.7	605.9	587.5	578.7	530.8	485.1	423.1
55°	885.0	898.5	883.6	880.7	867.2	855.1	808.8	770.5	702.0	636.2	563.5
57.5°	1207.6	1209.8	1191.0	1191.5	1143.7	1113.3	1070.6	1011.9	909.9	814.9	733.4
60°	1442.6	1448.3	1439.5	1421.2	1328.6	1274.2	1227.3	1181.0	1103.1	962.0	848.6
62.5°	1519.1	1520.8	1515.3	1505.6	1423.9	1354.5	1294.1	1226.9	1167.2	1040.1	926.1
63°	1521.9	1523.1	1518.7	1510.5	1434.6	1362.6	1302.2	1230.4	1171.8	1047.0	930.8
65°	1514.4	1514.9	1513.0	1502.0	1441.4	1365.2	1298.7	1227.9	1174.2	1049.7	930.8
67.5°	1447.6	1434.5	1440.0	1421.4	1370.9	1295.1	1231.6	1159.4	1111.0	990.7	876.7
70°	1191.0	1191.9	1191.0	1180.8	1166.5	1106.6	1032.3	967.4	906.2	811.8	722.3
72.5°	921.4	925.1	917.1	923.0	911.4	861.9	813.9	748.1	705.1	624.9	546.0
75°	713.7	721.1	723.5	706.8	696.8	686.2	660.0	612.7	569.7	507.7	438.8
77.5°	539.3	540.7	542.7	531.3	518.2	522.4	518.6	496.1	460.0	414.4	359.7
80°	372.6	376.6	383.4	376.8	378.3	375.9	375.4	357.5	331.4	302.7	273.4
82.5°	250.4	250.2	251.9	262.5	272.1	271.8	256.4	231.2	217.9	209.6	193.1
85°	239.7	239.7	242.1	234.5	229.7	224.8	223.8	215.2	205.0	186.3	163.4
87.5°	223.5	222.9	223.6	217.1	210.7	209.1	207.6	200.1	195.6	179.4	158.3
90°	191.2	192.5	192.5	192.0	188.1	186.5	180.3	174.1	171.3	156.6	140.0
92.5°	168.7	168.7	170.6	167.3	163.0	165.4	154.7	146.6	142.8	133.0	119.8
95°	152.5	152.0	154.4	149.7	146.6	142.1	137.6	129.2	126.4	117.9	104.6
97.5°	121.7	121.2	122.6	120.4	115.5	113.5	108.6	101.9	99.3	91.3	83.2
100°	104.8	104.6	105.2	104.0	101.2	98.6	94.5	89.1	86.7	80.1	72.9
102.5°	99.5	98.9	99.1	99.3	95.3	92.9	88.9	84.8	82.4	77.0	69.1
105°	94.6	94.3	93.9	93.9	89.4	87.0	84.4	81.7	79.6	73.7	66.1
107.5°	90.1	89.6	88.4	88.2	85.3	82.7	79.6	77.2	75.1	69.8	62.5

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	85.1	*85.0*	84.3	84.4	82.5	78.6	76.0	73.0	70.5	65.8	59.4
112.5°	82.5	*82.5*	82.0	82.9	75.6	71.7	68.9	66.3	64.6	60.1	55.3
115°	79.8	*78.4*	77.9	79.6	71.3	65.8	63.0	60.3	58.5	54.0	50.1
117.5°	73.9	*73.6*	73.7	75.1	72.7	66.7	62.2	58.7	57.0	53.7	50.1
120°	84.3	*83.9*	81.9	81.5	77.4	72.5	69.6	67.7	65.1	59.7	52.8
122.5°	88.1	*87.4*	84.1	85.1	79.6	77.2	76.0	75.3	72.9	65.8	55.3
125°	76.7	*75.6*	74.8	75.1	72.0	68.9	67.7	66.7	64.2	60.3	52.7
127.5°	61.5	*62.0*	61.3	59.4	58.9	54.2	52.7	51.5	49.2	45.9	44.7
130°	57.7	*57.3*	57.2	56.8	56.5	53.0	50.6	47.7	45.8	43.0	39.7
132.5°	51.3	*51.6*	52.2	55.1	57.8	54.9	48.7	44.2	43.0	43.5	42.1
135°	48.7	*48.9*	48.9	51.1	53.5	50.6	45.9	41.6	41.1	43.0	41.3
137.5°	49.9	*50.8*	50.6	50.1	48.7	46.6	45.6	43.2	41.8	40.6	37.6
140°	52.7	*53.7*	53.2	50.3	49.2	48.2	48.9	48.0	44.6	40.4	36.1
142.5°	52.3	*53.2*	52.8	52.5	54.4	52.0	48.7	45.4	42.7	40.4	37.6
145°	67.9	*67.5*	66.1	66.1	63.9	60.3	58.0	54.6	51.3	48.4	43.9
147.5°	62.7	*63.5*	63.9	62.3	61.3	58.9	58.5	56.6	55.6	53.0	48.4
150°	49.7	*50.4*	49.4	48.2	47.7	47.8	47.0	45.6	44.6	42.7	40.6
152.5°	34.4	*34.7*	34.4	33.3	33.0	32.5	32.6	31.6	30.9	29.7	27.8
155°	31.3	*31.4*	31.6	29.9	29.5	29.7	29.9	29.2	27.8	26.8	24.5
157.5°	24.5	*24.2*	24.2	23.8	24.0	23.5	23.5	23.3	22.8	22.1	21.4
160°	19.5	*19.7*	19.7	19.7	20.0	19.7	19.7	19.2	19.2	18.8	18.5
162.5°	16.6	*16.6*	16.6	16.6	16.4	16.4	16.8	16.6	16.6	16.8	17.1
165°	14.0	*14.2*	14.2	14.2	14.2	14.2	14.5	14.5	14.9	15.5	16.4
167.5°	13.1	*13.0*	13.0	13.1	13.1	13.5	13.5	14.2	15.4	16.6	16.6
170°	12.4	*12.4*	12.4	12.6	12.6	12.8	13.3	14.5	15.9	16.4	15.7
172.5°	13.0	*12.8*	12.8	13.0	13.0	13.5	14.2	15.2	15.7	15.7	15.0
175°	13.3	*13.1*	13.1	13.3	13.3	13.6	14.3	15.0	15.4	15.5	15.5
177.5°	13.0	*13.0*	13.0	13.0	13.0	13.1	13.1	13.6	14.0	14.3	14.7
180°	12.4	*12.4*	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
2.5°	78.9	72.0	61.8	49.4	57.5	67.5	66.1	58.4	46.6	35.1	35.1
5°	43.7	46.3	48.9	42.8	38.3	38.0	37.0	33.2	32.6	26.9	25.4
7.5°	38.2	35.7	35.2	41.6	41.1	27.1	21.4	19.0	20.0	27.1	28.0
10°	45.8	44.7	41.4	34.5	28.8	26.2	26.1	26.4	24.2	19.5	18.3
12.5°	51.6	49.9	47.0	44.9	38.3	30.6	26.2	24.3	25.7	32.6	34.2
15°	57.3	54.9	49.9	44.2	37.6	31.9	27.5	23.5	23.5	22.4	21.9
17.5°	61.8	58.7	52.7	46.5	39.0	31.9	26.1	22.1	20.2	19.9	19.9
20°	67.5	64.6	58.0	50.4	41.1	32.3	25.9	22.1	19.9	19.0	18.8
22.5°	74.6	70.8	62.3	53.4	42.3	32.6	26.2	22.3	20.0	18.8	18.5
25°	81.2	76.8	66.8	57.5	45.1	33.5	26.6	22.8	20.4	19.0	18.8
27.5°	86.5	81.9	72.5	61.8	48.0	35.6	28.3	23.8	20.9	19.5	19.2
30°	92.6	88.2	78.4	66.3	50.8	38.2	30.7	25.7	22.4	20.5	20.4
32.5°	101.5	96.2	84.8	71.0	54.0	40.9	33.2	27.5	23.5	22.4	22.4
35°	117.8	112.2	97.2	78.6	57.2	43.7	35.6	29.4	25.0	22.6	22.4
37.5°	148.2	140.6	121.7	95.8	62.5	45.9	37.6	30.9	25.9	22.4	21.9
40°	162.1	149.2	129.2	105.0	70.3	48.5	39.4	32.1	26.1	23.0	22.6
42.5°	178.7	167.8	139.5	107.2	76.0	54.9	42.3	33.5	27.1	23.7	23.3
45°	194.6	184.1	160.2	126.7	88.8	64.4	47.5	36.3	28.8	24.7	24.0
47.5°	223.5	212.4	179.2	146.8	106.4	79.3	57.8	40.6	31.3	25.7	24.9
50°	298.4	282.7	243.7	194.4	136.1	100.7	74.1	49.6	34.5	26.2	25.2
52.5°	395.1	371.1	328.8	265.9	194.6	142.5	103.8	72.0	40.2	26.4	24.9
55°	551.9	522.4	454.3	362.5	272.5	212.6	157.1	110.7	59.2	27.6	24.7
57.5°	700.6	678.6	619.2	495.9	361.4	270.1	206.7	155.8	80.6	30.4	25.9
60°	809.9	768.1	698.7	572.3	436.5	313.4	230.0	162.0	82.9	30.9	26.8
62.5°	875.2	823.5	720.6	583.3	447.2	322.4	239.3	149.0	67.0	30.2	28.0
63°	*880.0*	*829.9*	*723.4*	*579.5*	*443.8*	*320.0*	*238.0*	*145.9*	*65.1*	*30.0*	*28.3*
65°	873.9	830.4	713.7	559.7	414.4	298.6	221.6	131.1	52.8	29.5	28.7
67.5°	813.9	778.5	663.1	506.0	369.0	257.8	183.4	100.0	41.3	28.1	27.8
70°	681.2	640.7	536.0	418.2	292.5	208.3	146.3	77.5	34.0	26.8	26.4
72.5°	507.0	490.1	407.2	318.3	225.0	160.6	109.8	58.9	30.2	25.7	25.4
75°	409.9	384.6	322.9	251.4	171.1	119.3	81.5	44.2	27.6	24.9	24.5
77.5°	339.0	322.1	268.7	189.8	122.1	86.0	59.9	35.1	26.4	24.3	24.2
80°	262.5	251.9	209.6	140.4	87.4	64.1	47.5	32.1	25.9	24.2	24.0
82.5°	185.1	181.8	152.7	105.0	74.3	57.3	44.2	31.6	26.1	24.5	24.2
85°	153.3	146.3	128.5	99.8	70.5	54.9	42.7	31.1	26.1	24.3	24.2
87.5°	149.4	143.5	124.3	93.4	64.6	50.8	40.1	29.9	25.2	23.7	23.5
90°	135.0	129.2	111.4	83.4	60.8	47.7	37.5	28.3	24.2	23.0	22.6
92.5°	115.2	109.8	96.7	75.8	58.2	45.8	36.4	27.8	24.0	22.6	22.4
95°	100.0	95.5	84.8	69.8	53.7	42.7	34.5	26.8	23.3	22.1	21.9
97.5°	79.6	76.8	68.6	56.8	45.4	37.3	30.9	25.2	22.4	21.4	21.2
100°	70.1	67.7	61.1	51.5	42.1	35.2	29.9	24.7	21.8	20.9	20.7
102.5°	65.8	63.9	58.0	48.4	39.5	33.5	28.5	23.8	21.2	20.4	20.2
105°	62.5	60.8	55.4	46.1	37.3	31.3	26.8	22.8	20.4	19.7	19.5
107.5°	58.5	57.2	52.0	42.8	35.1	29.4	25.4	21.9	19.9	19.2	19.2

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

Scaled Data Report

REPORT NUMBER: P1046235
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	55.3	54.2	48.9	40.9	33.5	28.1	24.5	21.6	19.7	19.0	19.0
112.5°	51.8	50.6	45.6	38.5	32.1	27.3	23.8	21.1	19.3	18.6	18.6
115°	48.0	46.8	42.0	35.7	30.4	25.9	22.8	20.2	18.6	18.1	18.1
117.5°	48.7	45.6	39.7	34.2	29.0	24.9	22.1	19.9	18.1	17.8	17.6
120°	49.4	45.4	41.1	35.9	29.9	24.3	21.6	19.3	18.0	17.4	17.4
122.5°	48.2	48.7	44.9	37.0	28.5	23.8	21.4	19.5	18.1	17.6	17.8
125°	47.1	48.4	43.9	34.9	27.5	23.7	21.4	20.0	18.8	18.3	18.3
127.5°	43.3	43.5	37.3	31.3	26.8	23.1	21.2	20.2	19.2	18.5	18.1
130°	38.2	37.8	34.9	30.4	25.2	22.3	20.5	20.0	19.0	17.8	17.6
132.5°	40.9	39.9	35.1	28.8	23.8	21.4	20.4	19.7	18.0	16.6	16.4
135°	38.9	37.8	32.8	26.9	23.1	21.8	21.2	19.5	16.9	15.9	15.7
137.5°	35.4	33.7	29.5	25.7	23.5	22.6	21.4	19.2	16.6	15.4	15.2
140°	34.0	32.3	29.0	26.4	23.8	21.1	19.0	16.9	15.2	14.2	14.0
142.5°	35.7	34.4	31.1	26.4	22.3	19.3	17.4	16.1	14.5	13.0	12.8
145°	41.6	39.0	34.5	29.7	25.4	21.9	19.0	16.1	13.3	11.6	11.4
147.5°	46.1	44.0	39.2	33.7	27.6	22.1	17.8	14.2	11.9	10.9	10.7
150°	38.3	37.1	33.5	29.0	24.5	19.5	15.4	12.6	11.2	10.9	10.9
152.5°	26.8	25.9	24.7	21.8	18.3	15.4	13.1	11.7	11.2	11.1	11.1
155°	23.7	23.1	21.6	19.0	16.6	14.3	12.6	11.6	11.4	11.2	11.2
157.5°	20.4	20.2	19.2	17.1	15.2	13.5	12.3	11.7	11.4	11.2	11.2
160°	18.3	17.8	16.8	15.4	14.2	13.1	12.4	12.1	11.7	11.6	11.6
162.5°	17.1	16.8	15.5	14.5	13.8	13.6	13.8	13.6	12.8	12.3	12.1
165°	16.2	16.1	14.9	14.2	13.8	14.7	15.7	15.4	13.8	13.0	13.0
167.5°	16.2	15.9	14.7	14.2	15.0	16.2	17.1	16.9	15.5	14.7	14.2
170°	15.4	15.0	14.7	14.9	16.1	16.6	16.8	17.1	17.3	18.1	18.5
172.5°	14.9	14.9	15.2	15.9	16.9	17.1	16.6	16.8	18.3	20.2	20.4
175°	15.5	15.5	16.2	17.4	18.0	18.3	17.6	17.8	19.5	21.4	21.6
177.5°	14.9	15.0	15.4	15.5	15.4	14.9	14.7	15.4	14.9	14.7	15.2
180°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

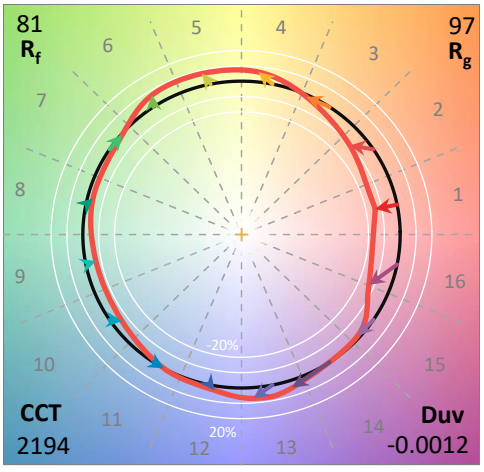
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

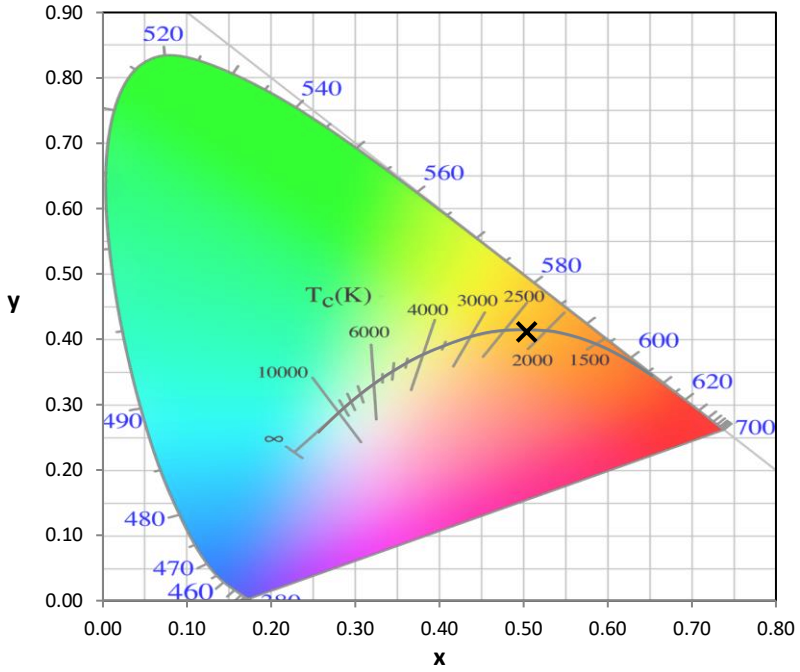
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

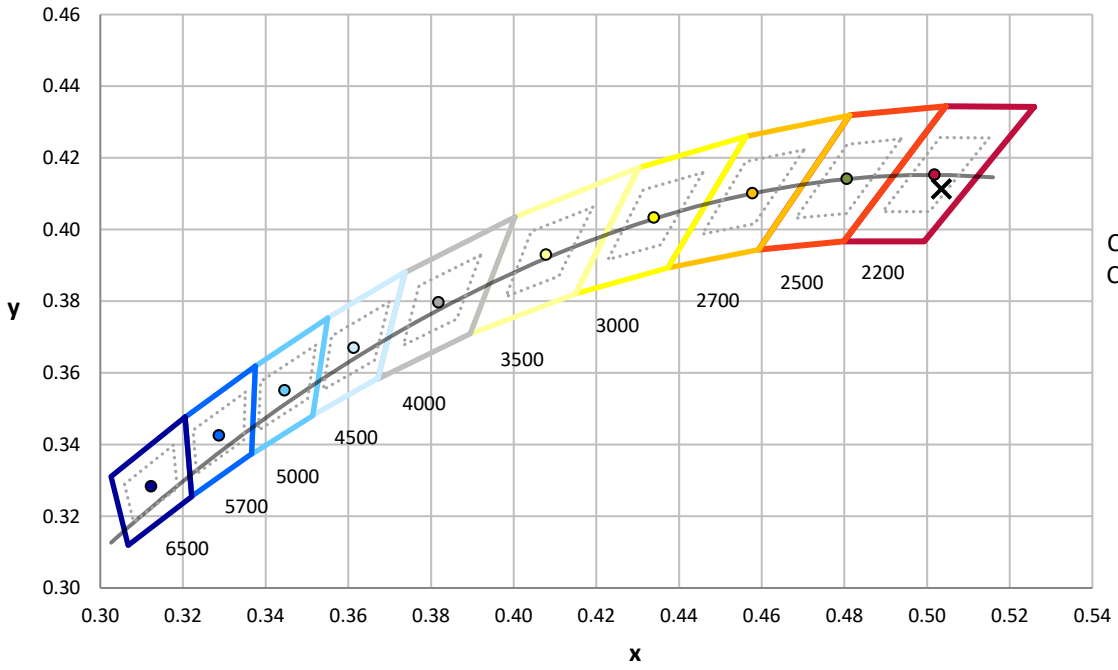
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

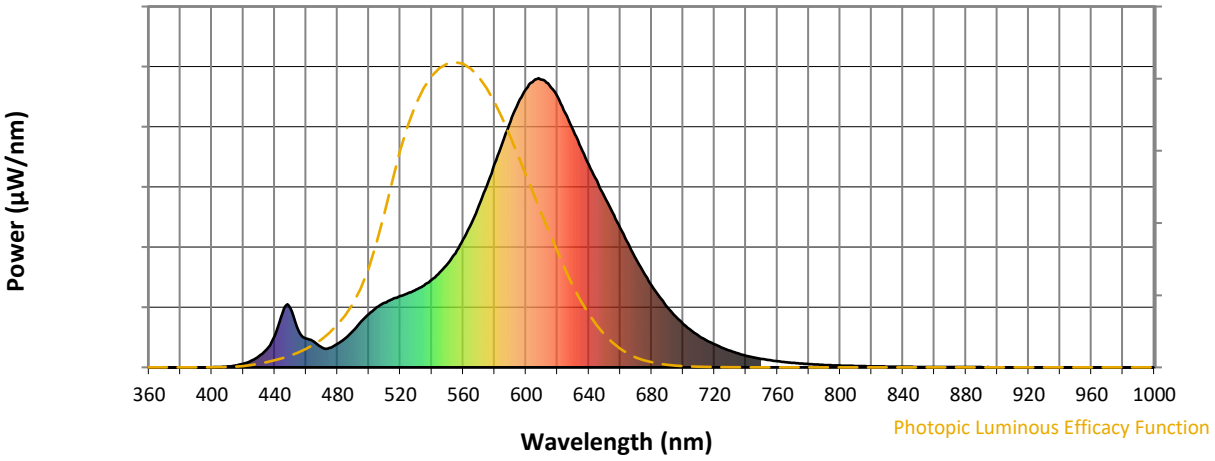


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

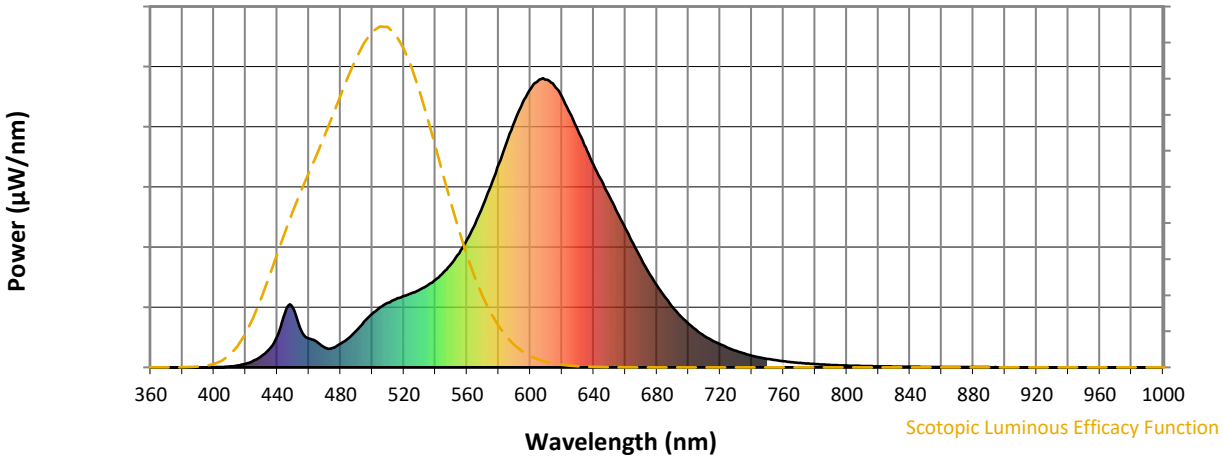


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

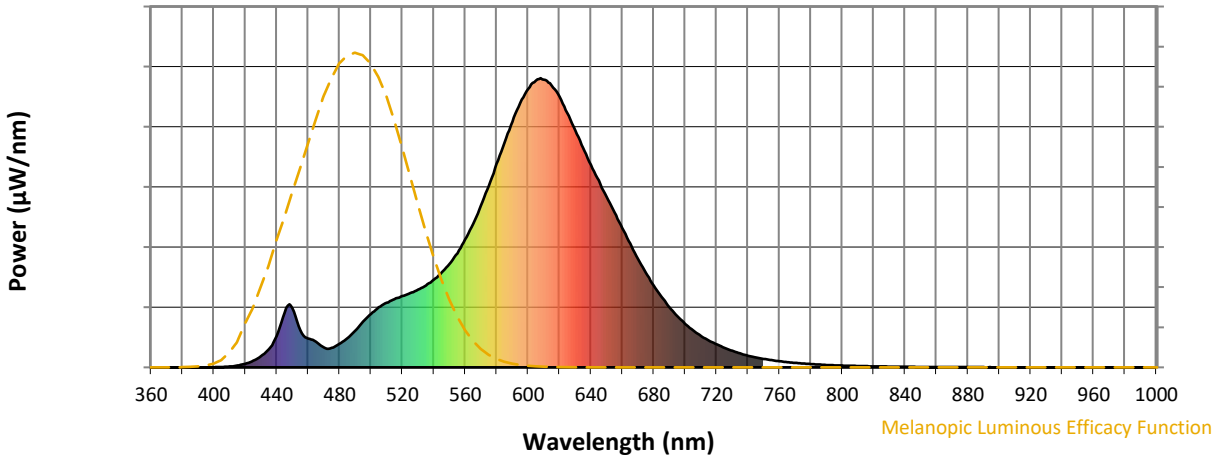


Scotopic Lumens: NR **S/P: 0.96**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

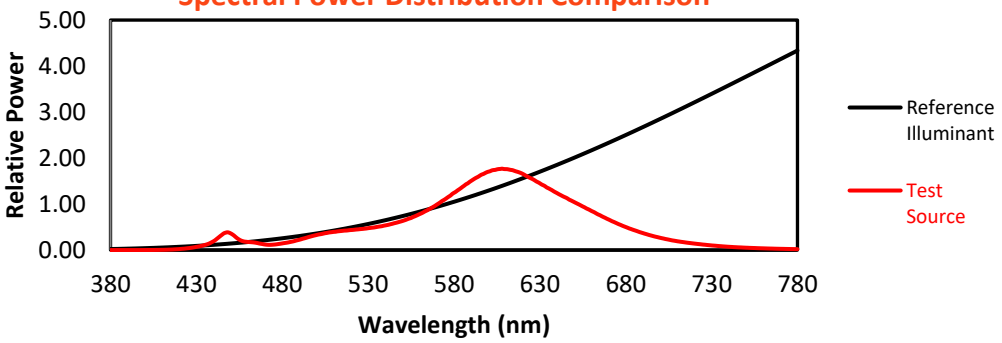
REPORT NUMBER: SP1-2501-332-7

TM-30-18

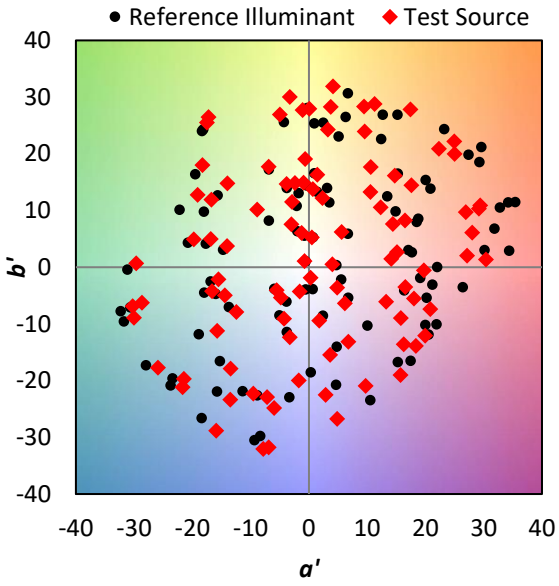
Summary

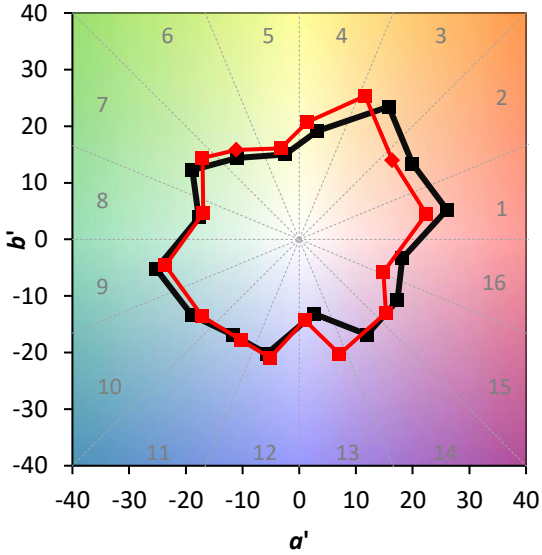
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

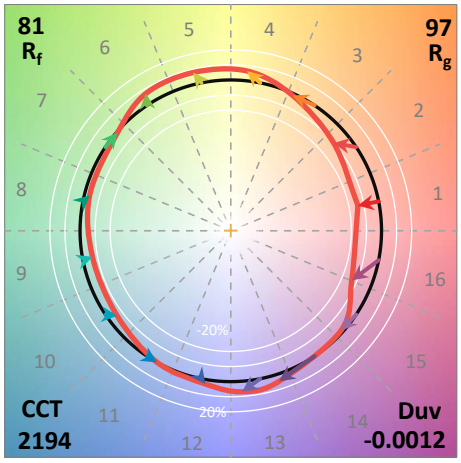
Spectral Power Distribution Comparison

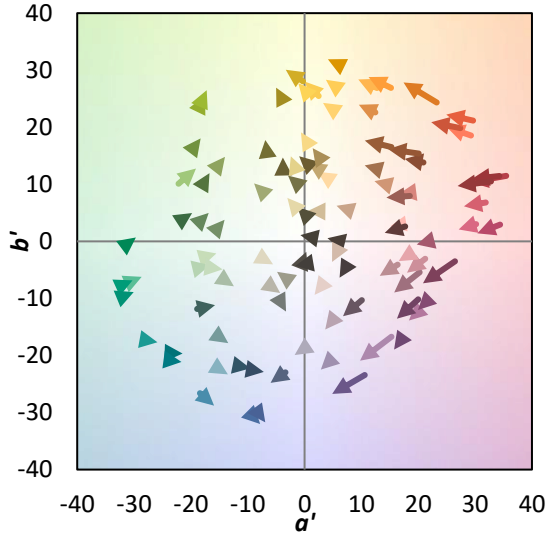


Color Vector Graphics







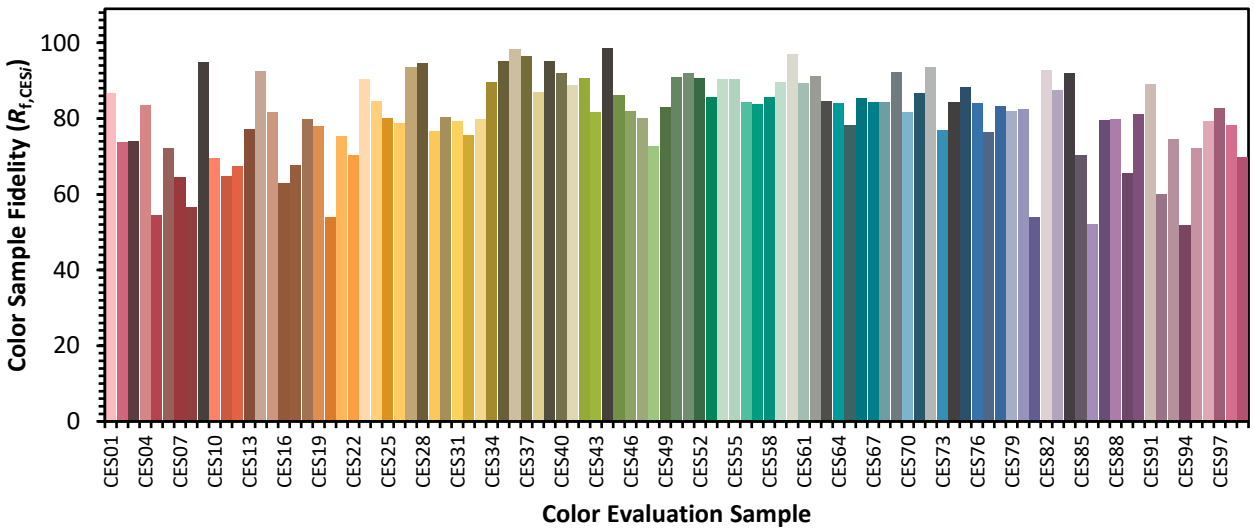


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

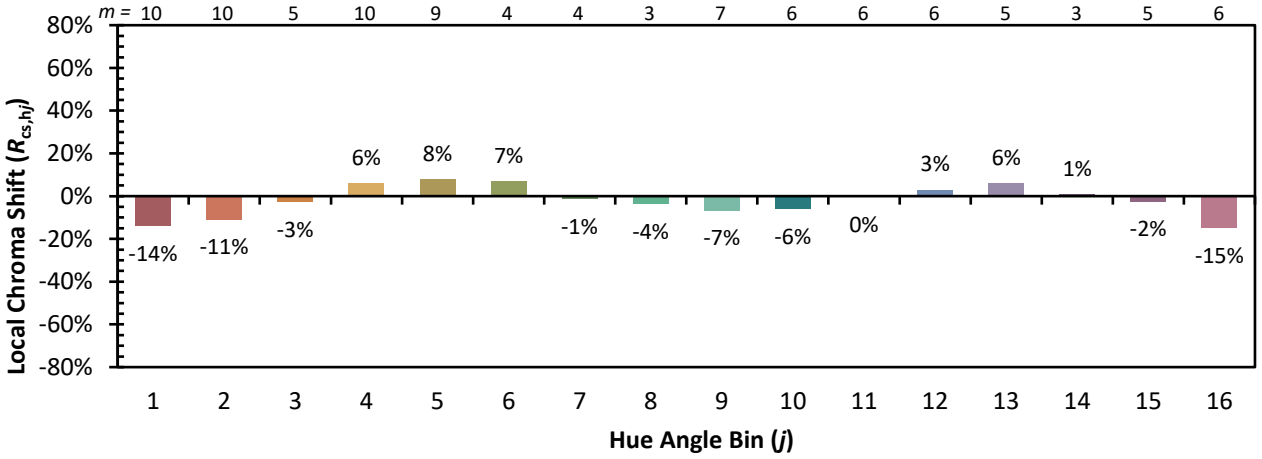
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

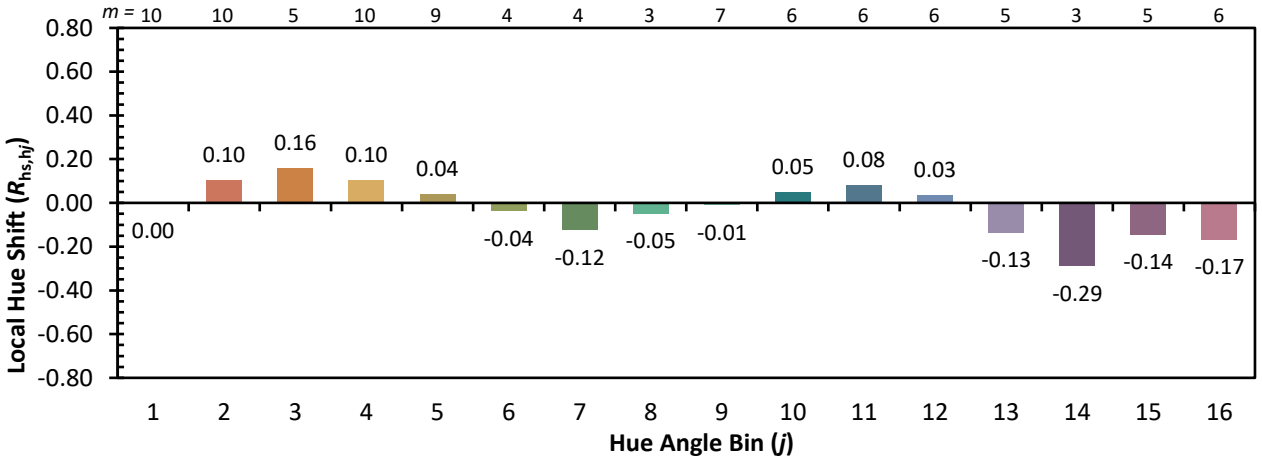


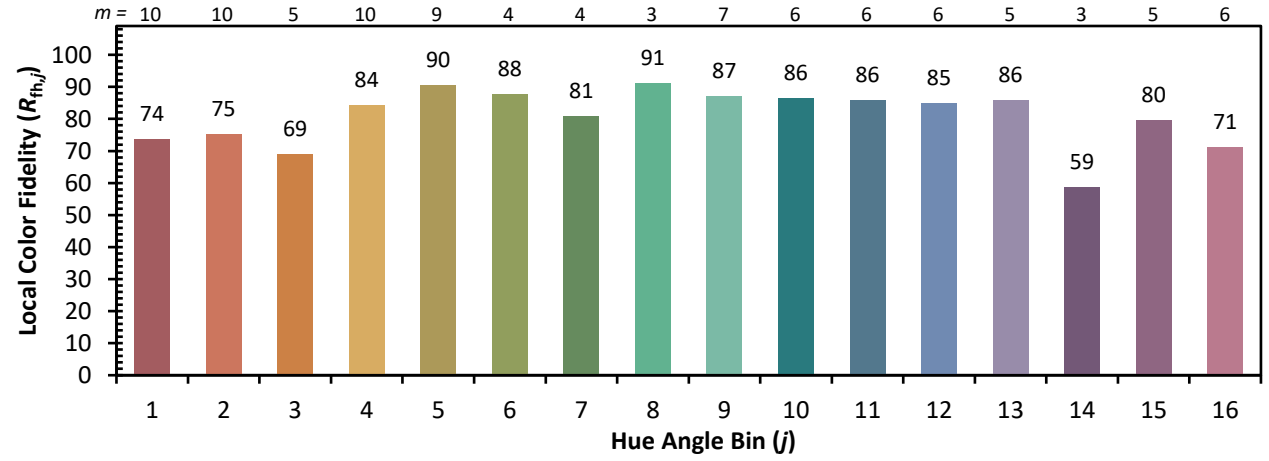
REPORT NUMBER: SP1-2501-332-7

TM-30-18

Color Rendition by Hue-Angle Bin



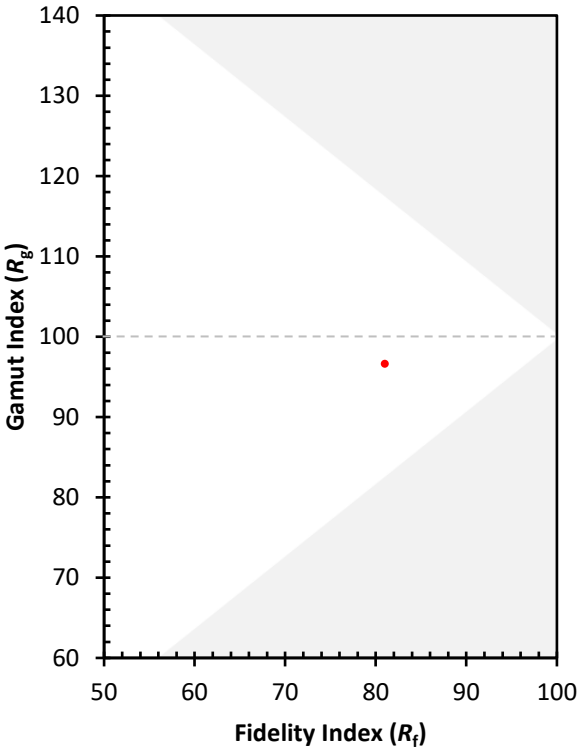


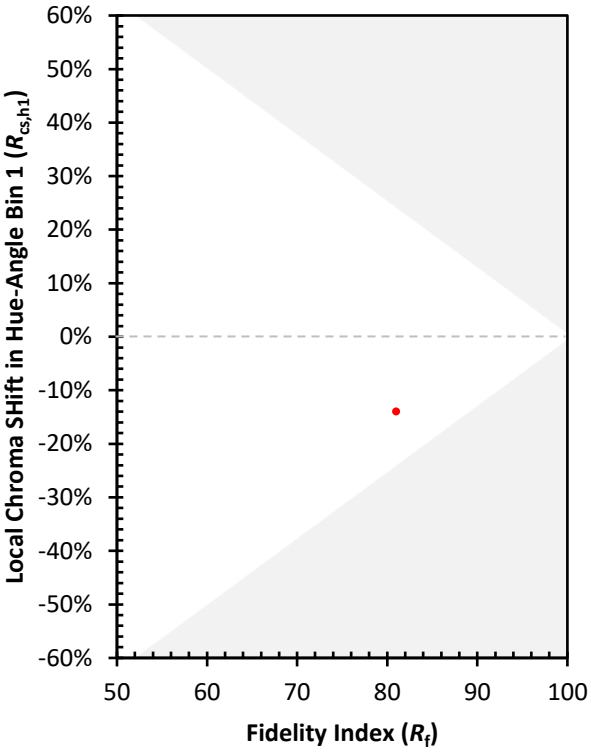


REPORT NUMBER: SP1-2501-332-7

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Measure Comparisons





(END OF REPORT)