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: P1046415

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

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046415
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
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2631.4 lumens
Efficiency:	N/A
Efficacy:	132.9 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

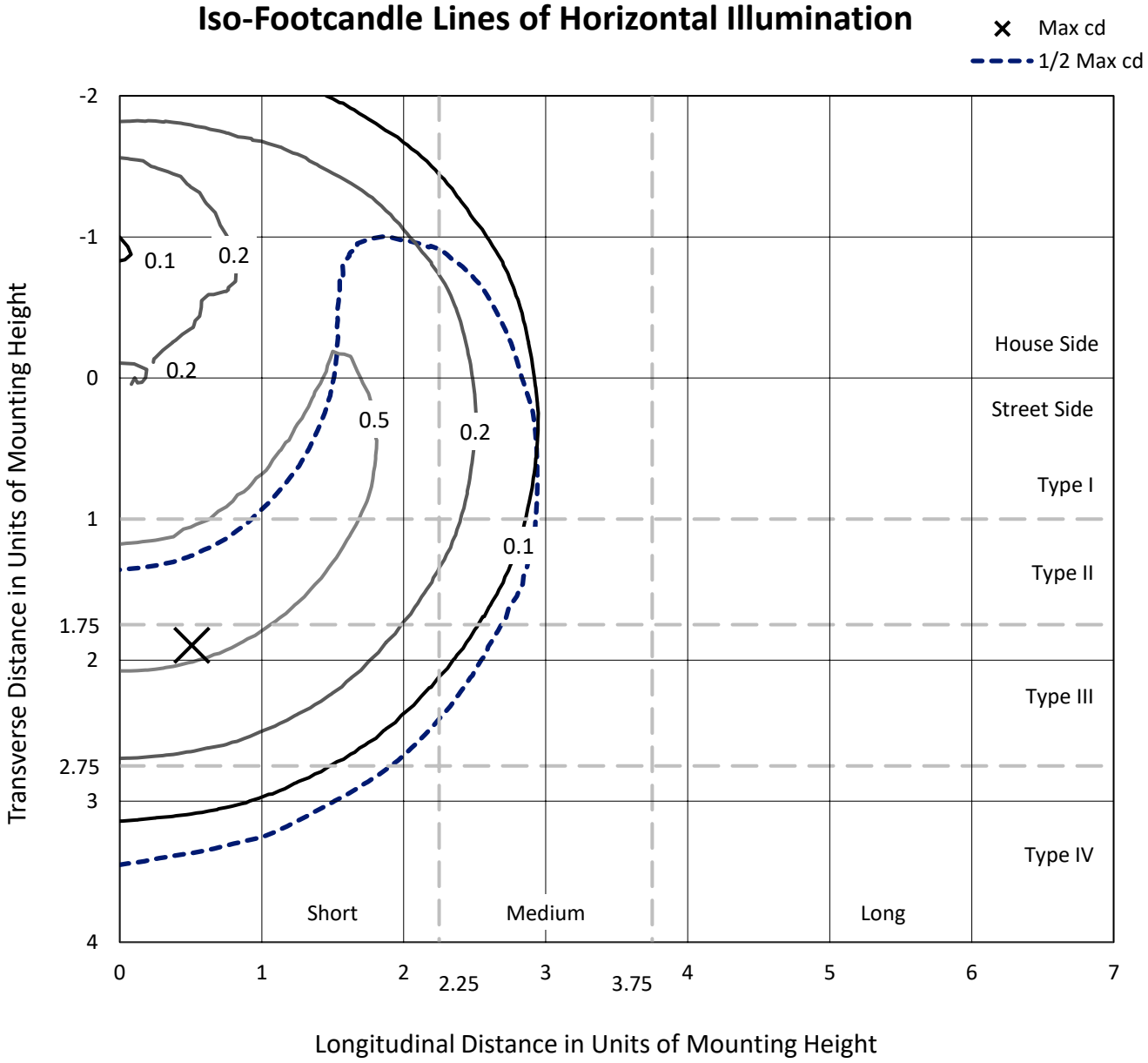


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Iso-Footcandle Lines of Horizontal Illumination



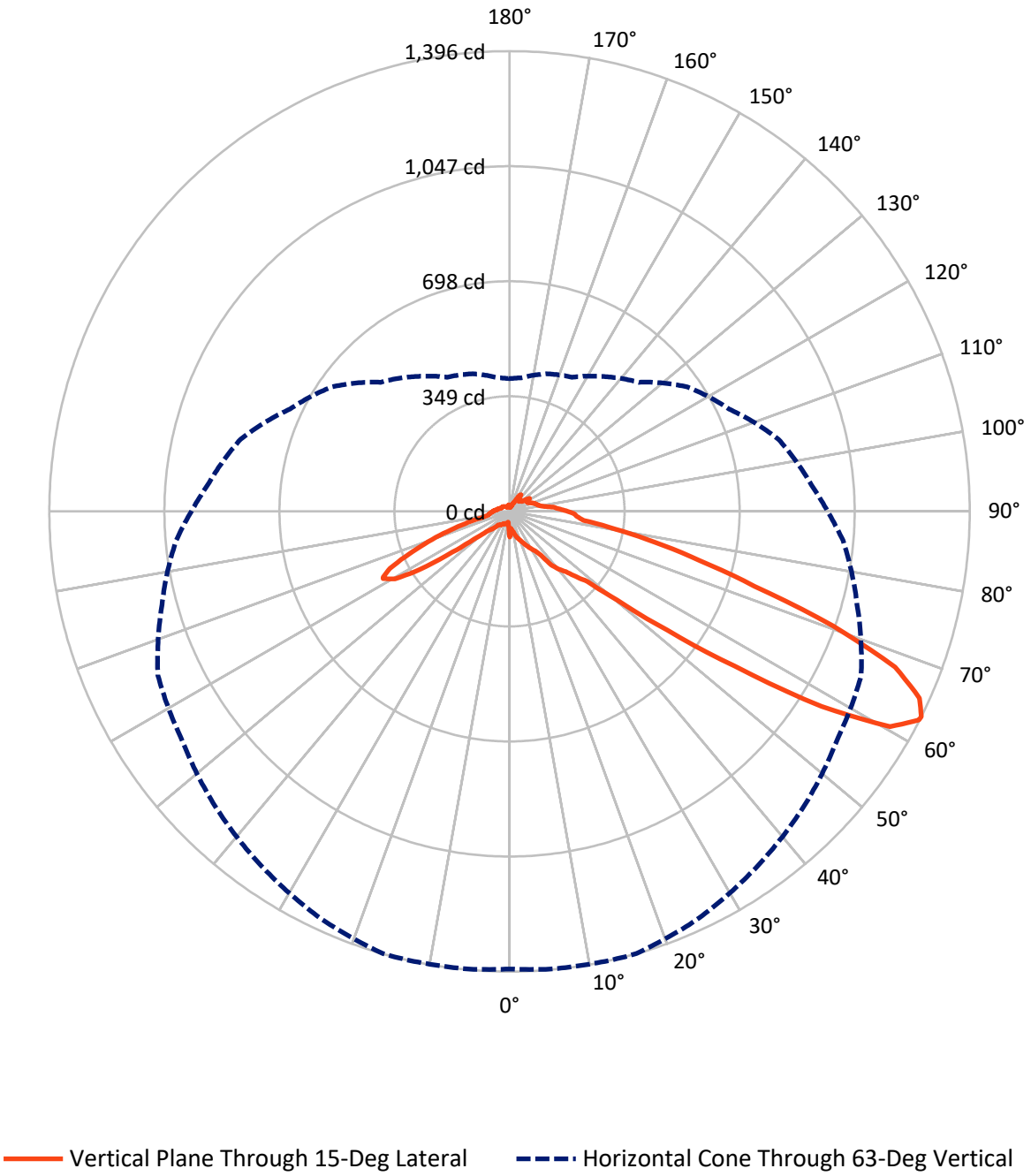
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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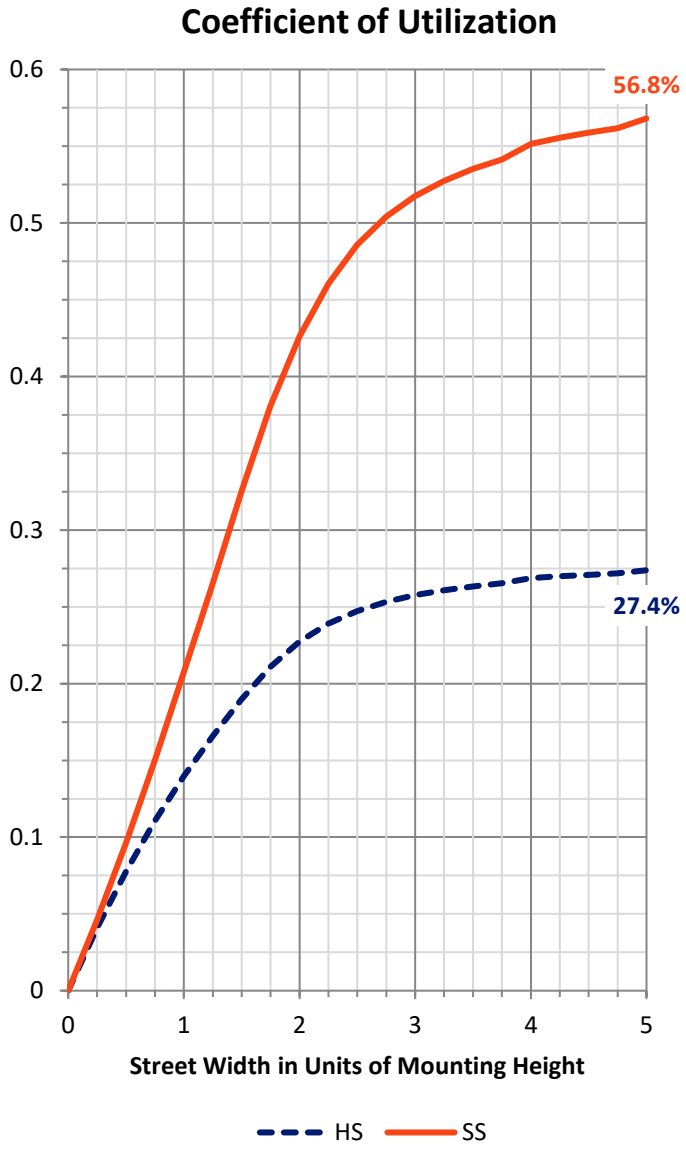
REPORT NUMBER: P1046415
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.2	121.3	865.5
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	1558.2	207.7	1765.9
	% Fixture	59.2	7.9	67.1
Total	Lumens	2302.4	329.0	2631.4
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.2
10°-20°	17.2	0.7
20°-30°	37.3	1.4
30°-40°	76.7	2.9
40°-50°	158.2	6.0
50°-60°	520.6	19.8
60°-70°	861.9	32.8
70°-80°	452.1	17.2
80°-90°	173.6	6.6
90°-100°	104.9	4.0
100°-110°	66.1	2.5
110°-120°	48.9	1.9
120°-130°	41.6	1.6
130°-140°	27.2	1.0
140°-150°	23.6	0.9
150°-160°	10.8	0.4
160°-170°	4.4	0.2
170°-180°	1.5	0.1
0°-90°	2302.4	87.5
0°-180°	2631.4	100.0



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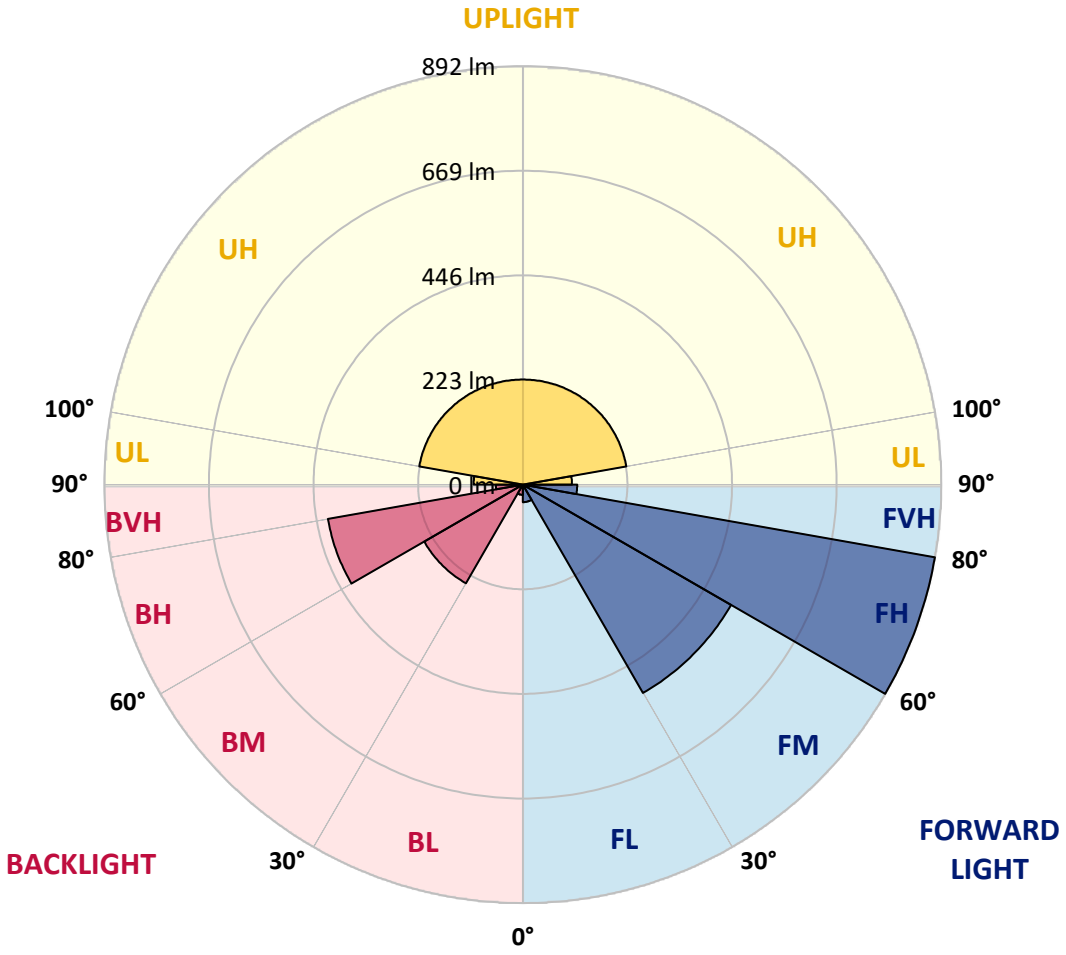
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	37.4	1.4			
FM	(30°-60°)	512.7	19.5			
FH	(60°-80°)	892.1	33.9			G1/1800
FVH	(80°-90°)	116.0	4.4			G2/225
BL	(0°-30°)	21.9	0.8	B0/110		
BM	(30°-60°)	242.8	9.2	B1/1000		
BH	(60°-80°)	421.9	16.0	B1/500		G1/500
BVH	(80°-90°)	57.6	2.2			G1/100
UL	(90°-100°)	104.9	4.0		U3/500	
UH	(100°-180°)	224.1	8.5		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2.5°	47.8	47.8	54.7	56.0	62.5	64.6	61.0	58.2	64.9	78.8	81.0
5°	52.0	53.0	52.8	52.7	53.0	59.2	65.6	62.7	51.5	40.9	40.9
7.5°	58.9	59.2	59.1	58.9	56.6	53.0	51.5	56.1	59.1	50.3	42.1
10°	63.7	63.4	63.2	63.0	63.4	64.8	64.2	58.5	52.8	49.9	48.2
12.5°	72.9	73.1	72.5	72.2	71.8	71.3	70.8	72.0	68.9	60.4	54.7
15°	79.8	79.8	81.2	80.8	80.8	79.1	76.7	73.2	69.1	66.8	61.8
17.5°	87.0	87.2	87.0	87.0	86.4	84.1	81.5	78.4	74.1	70.3	66.0
20°	94.1	94.1	93.9	93.8	93.6	91.9	88.6	84.5	80.5	76.9	72.4
22.5°	101.5	102.1	102.4	102.1	101.5	99.8	96.2	92.2	88.4	83.2	78.4
25°	112.1	112.3	111.9	111.6	110.9	108.6	105.9	101.7	97.1	91.5	85.1
27.5°	122.1	122.4	122.3	122.3	120.9	119.0	116.2	110.7	105.5	99.1	92.6
30°	133.5	133.2	132.3	132.5	131.6	130.0	126.9	122.1	115.5	107.9	100.7
32.5°	144.7	144.7	143.5	143.0	143.0	140.9	137.5	132.5	126.2	118.1	111.0
35°	157.0	160.1	163.2	164.4	164.4	161.5	157.3	150.8	145.4	137.0	128.1
37.5°	215.9	214.0	206.4	207.2	204.6	203.4	200.7	195.2	187.7	174.8	161.3
40°	236.6	236.3	230.6	229.9	228.7	224.7	221.7	217.9	215.4	199.8	179.6
42.5°	240.2	242.1	249.7	251.6	261.5	255.4	243.7	222.3	216.9	205.2	196.7
45°	281.0	281.7	281.7	282.0	279.4	274.9	273.4	259.7	249.0	232.1	216.2
47.5°	321.6	323.1	317.1	321.9	328.6	319.5	315.4	304.1	289.4	276.3	250.2
50°	415.9	421.9	423.1	423.3	426.2	425.5	419.3	403.8	389.1	359.0	330.0
52.5°	590.5	596.3	598.9	592.7	583.6	579.4	581.0	574.6	540.6	508.3	449.4
55°	818.4	828.6	828.6	835.2	832.4	812.7	811.5	769.7	714.8	678.9	627.6
57.5°	1123.4	1108.0	1116.7	1126.0	1107.0	1086.3	1055.4	1011.7	931.4	869.4	795.1
60°	1349.5	1343.3	1326.2	1315.6	1268.1	1227.0	1202.7	1170.7	1109.8	1028.3	929.0
62.5°	1390.9	1395.4	1394.2	1394.2	1356.2	1307.0	1257.8	1211.0	1173.2	1089.2	1010.6
63°	1388.3	1393.9	1396.1	1395.4	1361.2	1312.7	1263.8	1212.2	1177.1	1091.5	1015.5
65°	1366.2	1370.9	1366.9	1365.5	1344.0	1311.1	1256.2	1205.1	1173.2	1081.4	1016.2
67.5°	1277.5	1276.4	1261.6	1268.3	1254.7	1236.4	1185.1	1134.6	1112.5	1012.4	952.3
70°	1031.7	1024.5	1040.7	1050.4	1035.5	1028.3	967.3	934.1	905.6	829.5	781.0
72.5°	788.7	773.7	776.5	785.3	766.6	761.6	735.5	708.2	694.6	647.1	593.2
75°	618.4	610.3	595.3	597.7	582.3	577.3	574.6	566.6	561.3	521.7	468.4
77.5°	462.5	462.1	449.5	447.6	436.6	444.9	441.6	453.5	450.9	419.5	378.9
80°	323.6	321.7	325.0	323.8	321.2	326.1	320.9	327.4	327.4	306.9	289.8
82.5°	211.2	215.0	225.4	227.8	231.6	243.0	224.7	215.0	212.4	210.2	201.9
85°	209.7	210.7	206.2	206.7	205.0	200.7	204.0	205.5	202.9	190.5	172.2
87.5°	197.6	199.0	195.3	196.4	190.0	191.4	193.4	194.6	193.4	182.4	167.2
90°	166.5	168.0	171.3	171.3	171.8	172.2	168.9	170.8	169.6	159.1	148.0
92.5°	147.7	149.0	149.2	149.4	148.0	152.5	147.1	143.9	143.0	134.5	126.6
95°	135.1	133.5	133.2	133.5	132.8	132.6	129.2	126.8	125.7	119.0	111.2
97.5°	105.7	106.6	106.2	107.1	105.3	105.2	102.2	99.1	98.1	92.6	87.4
100°	92.7	92.6	92.9	93.1	92.0	90.8	88.8	86.5	85.3	81.2	76.2
102.5°	87.0	86.9	87.6	87.7	86.9	86.0	84.3	82.9	81.9	78.1	72.5
105°	83.4	82.9	83.8	83.8	81.9	81.3	80.1	80.0	79.3	74.8	69.4
107.5°	78.4	77.5	78.6	78.4	77.7	77.2	76.2	75.5	75.0	71.2	65.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	73.7	72.5	*73.1*	73.4	73.9	73.6	72.7	71.3	69.9	66.8	61.8
112.5°	65.1	65.8	*65.6*	65.6	66.1	66.3	64.8	63.9	63.0	60.6	57.3
115°	61.8	61.8	*61.8*	61.8	60.4	59.9	58.4	57.3	57.2	54.2	52.2
117.5°	59.2	59.6	*60.4*	61.0	62.7	61.7	58.2	56.0	55.1	53.9	51.6
120°	69.8	68.6	*67.4*	67.2	67.4	66.7	66.0	64.4	62.3	59.1	52.8
122.5°	74.8	71.7	*72.2*	72.0	70.8	71.3	71.5	71.7	70.3	65.1	55.4
125°	62.7	61.8	*62.3*	62.9	63.0	62.9	62.5	64.1	62.2	60.4	53.2
127.5°	50.1	49.7	*48.7*	48.5	48.2	48.4	48.4	48.9	47.1	45.4	45.1
130°	47.7	47.0	*47.1*	47.3	47.1	46.1	45.4	44.6	44.4	42.7	40.2
132.5°	43.2	43.5	*46.5*	46.8	48.9	47.7	44.0	41.6	42.0	42.8	42.0
135°	40.4	40.2	*42.5*	42.7	45.8	44.9	42.0	39.2	39.2	41.3	40.4
137.5°	41.3	41.6	*41.8*	42.0	41.8	41.6	41.4	40.2	39.4	39.2	37.1
140°	44.4	44.2	*42.5*	42.7	42.5	42.5	43.5	44.4	41.4	38.9	35.4
142.5°	46.5	47.0	*46.3*	47.1	48.7	47.3	45.6	43.3	41.6	39.9	37.8
145°	63.0	61.8	*61.3*	61.0	59.9	57.0	55.3	53.0	50.9	48.2	44.7
147.5°	57.2	57.5	*56.5*	56.8	55.4	54.4	54.1	54.2	53.5	52.0	48.4
150°	45.4	45.8	*44.7*	44.2	43.7	43.7	43.7	44.0	43.2	42.1	40.4
152.5°	31.8	31.4	*31.1*	30.9	30.6	30.2	30.2	30.4	29.5	29.2	27.8
155°	29.2	29.0	*27.6*	27.3	27.6	28.0	28.2	27.6	26.9	26.3	24.4
157.5°	22.8	22.3	*22.1*	22.5	22.5	22.3	21.9	22.3	21.6	21.4	21.1
160°	18.7	18.5	*18.7*	18.7	18.8	18.8	18.7	18.7	18.3	18.5	18.5
162.5°	15.9	15.9	*15.9*	15.7	16.1	16.2	16.1	16.1	16.2	16.8	17.1
165°	13.6	13.6	*13.8*	13.8	14.0	14.0	14.2	14.3	14.7	15.9	16.9
167.5°	12.8	12.8	*13.0*	13.0	13.1	13.3	13.6	14.3	15.4	16.8	17.3
170°	12.6	12.6	*12.6*	12.6	12.8	13.0	13.6	14.7	15.9	16.8	16.2
172.5°	13.1	13.1	*13.3*	13.3	13.3	14.0	14.5	15.4	16.1	16.2	15.7
175°	13.6	13.5	*13.6*	13.6	13.8	14.3	15.0	15.4	15.7	15.9	16.1
177.5°	13.3	13.3	*13.3*	13.5	13.5	13.6	14.0	14.2	14.5	14.9	15.4
180°	13.0	13.0	*13.0*	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2.5°	81.0	78.8	61.3	52.5	59.9	74.4	75.8	65.6	50.9	35.4	32.3
5°	43.2	45.6	50.9	50.8	47.3	44.2	40.4	38.0	42.0	40.2	41.3
7.5°	39.0	36.8	37.6	44.0	43.0	32.6	29.5	28.8	32.3	40.2	39.4
10°	47.5	46.8	44.2	39.0	37.3	38.7	39.9	39.0	35.9	31.3	30.6
12.5°	53.7	52.8	53.2	56.5	52.5	43.5	38.5	37.0	38.7	45.6	47.0
15°	59.8	58.2	56.0	51.3	47.5	45.1	42.1	39.0	40.1	38.2	37.5
17.5°	63.9	61.5	56.8	53.4	49.6	46.5	43.9	40.6	38.3	37.8	38.0
20°	69.4	66.8	61.8	57.9	53.2	49.0	44.6	41.1	38.9	38.0	38.0
22.5°	75.8	72.7	67.0	61.5	56.3	50.9	45.6	41.8	39.7	38.9	38.5
25°	82.6	79.4	72.4	66.5	59.9	54.1	48.5	43.7	41.4	40.4	39.5
27.5°	89.5	85.7	78.6	71.3	64.2	57.3	51.5	46.5	43.3	41.6	41.8
30°	97.1	93.9	86.0	77.7	68.9	60.8	55.1	49.4	45.6	43.7	43.9
32.5°	107.2	102.2	92.7	83.2	74.6	65.6	58.4	51.8	47.7	46.5	46.6
35°	124.2	117.8	106.2	93.3	81.7	71.2	62.0	54.2	49.4	47.5	47.3
37.5°	154.7	146.1	132.8	117.6	100.9	83.8	68.9	57.0	50.9	47.8	47.3
40°	169.6	157.8	141.1	128.0	116.6	101.9	85.0	67.0	53.5	49.6	49.0
42.5°	189.5	179.6	157.8	132.3	117.1	104.8	92.9	81.3	64.6	54.2	52.3
45°	208.6	199.8	182.7	157.7	135.1	115.9	98.1	85.5	75.1	64.6	63.7
47.5°	240.9	231.6	203.1	180.8	157.0	135.2	116.6	95.8	82.4	75.0	75.0
50°	321.9	304.8	276.7	242.5	204.1	168.9	142.5	117.1	100.9	89.6	89.1
52.5°	435.0	410.9	369.4	331.6	286.3	245.6	204.5	160.3	136.6	120.4	120.2
55°	598.4	573.7	518.3	445.6	390.1	341.4	298.8	250.2	212.9	186.7	184.6
57.5°	772.7	751.9	695.5	605.1	517.8	431.6	379.9	341.3	323.3	305.0	301.2
60°	885.6	850.0	798.6	712.4	627.8	517.9	453.9	409.5	403.4	399.5	394.4
62.5°	956.8	914.8	838.3	735.0	657.3	553.3	496.0	448.7	434.5	413.3	407.2
63°	*964.9*	*919.3*	*844.7*	*734.5*	*658.2*	*553.8*	*499.1*	*448.7*	*432.1*	*406.5*	*402.6*
65°	961.1	918.8	844.3	723.8	638.1	543.7	490.1	428.1	401.7	367.9	361.1
67.5°	903.0	858.0	787.9	669.4	592.0	495.6	436.8	371.0	330.9	297.7	290.0
70°	735.2	707.2	645.6	543.1	484.4	409.3	357.7	306.0	262.7	227.8	219.0
72.5°	560.2	530.9	484.6	418.1	374.8	323.1	274.2	234.5	198.8	175.6	176.3
75°	444.5	416.6	378.4	334.7	299.3	253.4	205.0	165.6	140.2	126.4	125.2
77.5°	358.0	338.7	305.3	265.1	234.5	186.5	143.5	109.1	90.3	82.4	80.1
80°	276.0	262.5	237.6	202.2	170.5	131.1	97.7	77.2	67.2	60.4	59.2
82.5°	196.4	188.2	167.5	142.8	121.2	100.7	85.7	72.2	61.8	56.1	54.4
85°	163.9	156.3	143.2	127.8	114.0	99.0	83.1	68.7	59.1	54.6	52.3
87.5°	159.1	152.0	139.4	123.0	107.9	91.7	75.6	62.2	55.3	50.9	49.6
90°	142.5	137.1	126.1	111.0	96.0	79.4	65.5	56.0	50.6	47.1	45.6
92.5°	122.8	118.1	109.0	96.4	83.8	71.8	61.1	53.2	47.8	44.4	43.2
95°	106.7	103.8	96.2	85.5	76.3	66.5	57.3	49.7	44.2	41.1	39.9
97.5°	85.1	81.7	76.2	68.7	61.8	54.9	48.2	43.0	39.0	37.0	35.9
100°	74.1	71.8	66.8	61.0	55.1	49.0	43.9	39.9	37.3	35.6	34.7
102.5°	69.8	68.2	63.6	57.7	52.2	46.3	41.1	37.5	35.6	34.0	33.3
105°	65.8	64.6	61.0	55.6	50.3	43.9	38.0	34.9	33.2	32.1	31.6
107.5°	61.7	60.3	56.8	51.6	47.0	41.4	36.3	32.5	30.2	29.0	28.8

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

Scaled Data Report

REPORT NUMBER: P1046415
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	58.2	57.2	53.4	49.2	44.7	39.5	35.1	31.1	28.5	27.1	26.9
112.5°	54.6	53.4	49.6	45.6	41.8	37.3	33.3	29.9	27.5	26.1	25.9
115°	49.7	48.7	45.9	42.1	39.0	34.7	31.4	28.3	26.4	25.0	24.9
117.5°	50.3	47.3	43.5	40.1	37.3	34.2	31.3	28.8	25.9	24.4	24.4
120°	50.9	48.2	44.4	41.4	39.9	37.5	33.0	29.5	25.6	24.0	23.8
122.5°	50.3	50.6	48.5	45.6	42.5	38.3	32.8	29.0	25.0	23.8	24.0
125°	48.7	50.3	47.3	43.3	39.2	35.2	30.6	27.1	24.7	23.8	23.7
127.5°	44.0	43.7	39.9	37.0	34.0	30.7	27.8	25.7	24.0	23.0	22.5
130°	38.9	38.7	37.1	34.7	31.8	28.8	26.3	24.9	23.1	21.8	21.4
132.5°	40.9	40.4	37.1	33.2	29.9	27.5	25.7	24.2	21.8	20.2	20.0
135°	38.7	38.3	35.1	31.1	28.2	26.9	25.7	23.5	20.6	19.3	19.2
137.5°	35.4	34.0	31.3	28.8	27.5	27.1	25.6	23.0	20.2	18.8	18.7
140°	33.7	32.6	30.6	29.0	27.5	25.6	23.3	20.9	19.0	18.0	17.8
142.5°	35.7	35.4	32.3	29.5	27.1	24.9	22.5	20.9	18.8	17.4	17.3
145°	42.3	40.6	36.8	33.0	30.9	28.0	24.9	21.6	17.8	15.7	15.2
147.5°	46.3	44.7	40.9	36.8	32.3	27.6	22.8	18.7	15.7	14.2	13.8
150°	38.3	37.6	35.2	31.4	27.6	23.3	19.3	16.4	14.5	13.5	13.5
152.5°	26.9	26.8	25.7	23.5	21.1	18.7	16.6	14.9	13.8	13.1	13.1
155°	23.8	23.5	22.8	20.7	19.0	16.9	15.4	14.3	13.6	13.1	13.1
157.5°	20.6	20.2	20.0	18.5	17.1	15.7	14.5	13.6	13.1	12.8	12.6
160°	18.3	17.8	17.3	16.4	15.5	14.9	14.3	13.6	13.1	12.8	12.8
162.5°	17.1	16.8	15.9	15.2	14.9	14.9	15.0	14.7	13.6	13.1	13.0
165°	17.1	16.6	15.4	14.7	14.7	15.5	16.4	15.7	14.9	13.8	13.6
167.5°	17.3	16.9	15.7	15.2	15.7	16.8	17.6	17.4	16.2	15.4	15.4
170°	16.1	15.9	16.1	16.6	17.1	17.3	17.6	17.4	17.8	19.0	19.0
172.5°	15.5	15.7	16.6	17.4	18.5	18.5	17.6	17.4	19.0	20.7	21.1
175°	16.2	16.6	17.4	18.5	19.3	19.3	18.5	18.7	20.2	21.8	22.1
177.5°	15.5	15.7	16.1	15.9	16.2	15.4	15.7	15.4	15.9	15.9	15.9
180°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

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

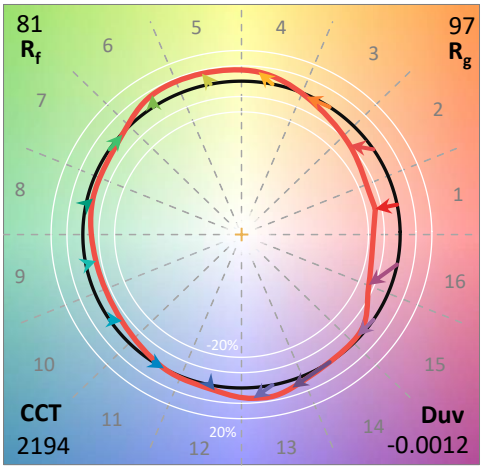
Test Information

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

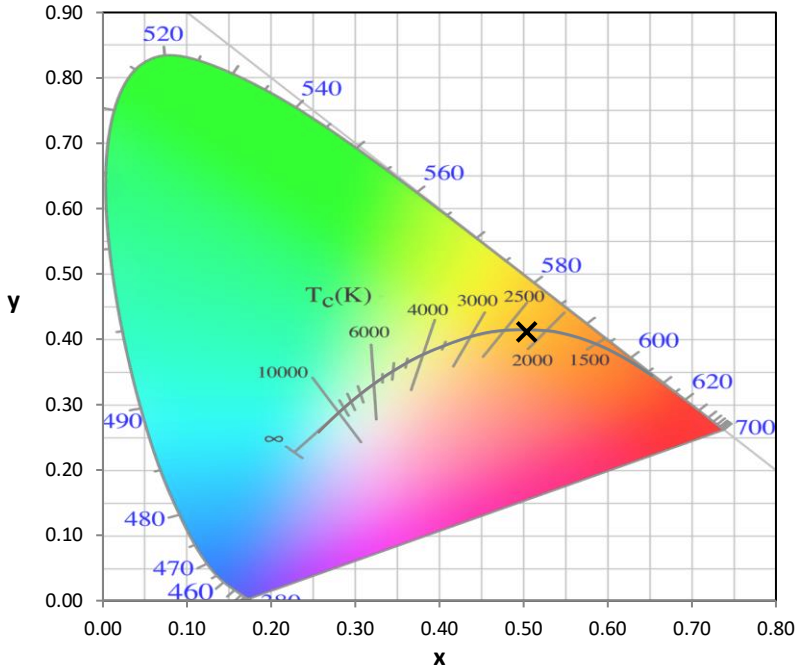
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

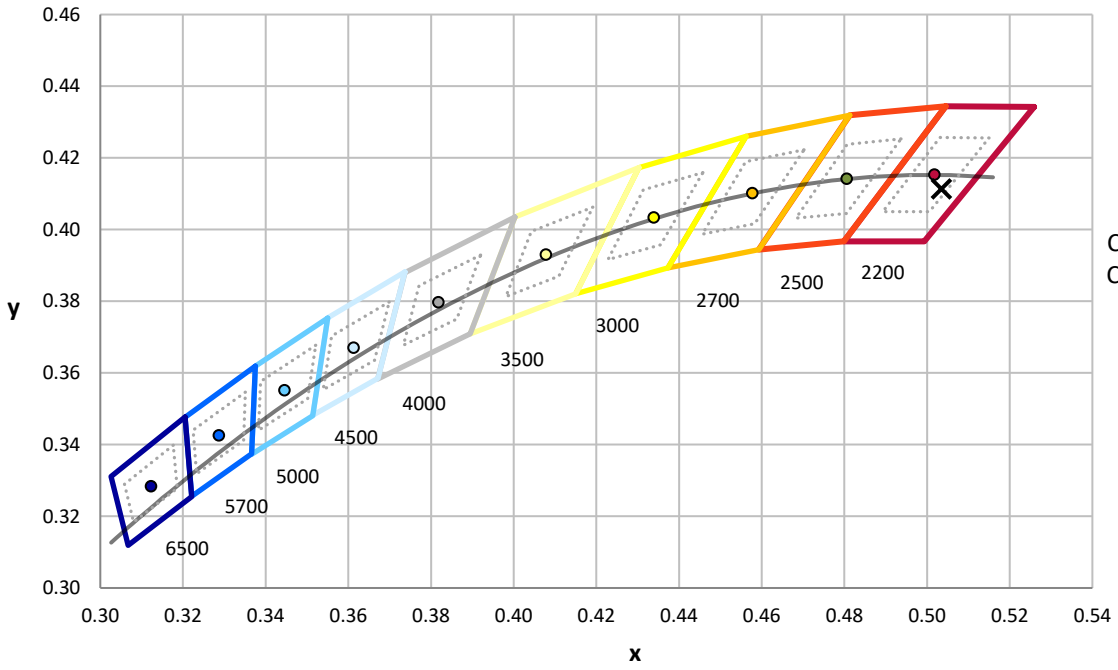
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

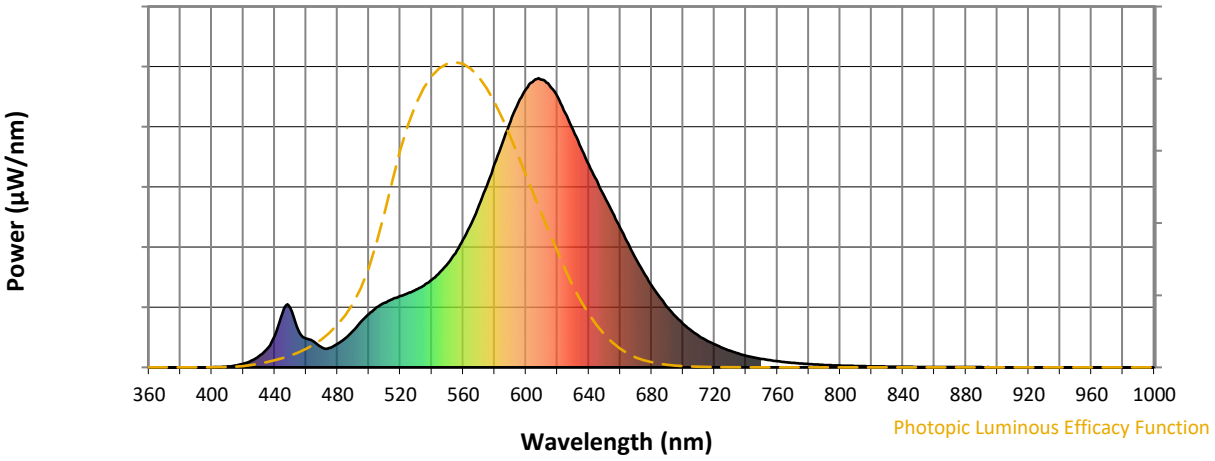


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

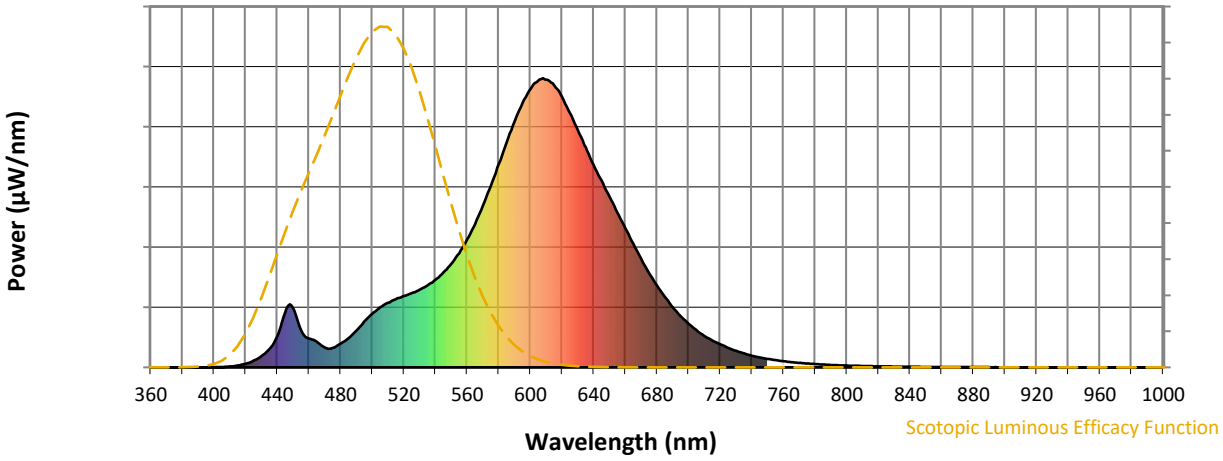


Photopic Lumens: NR

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

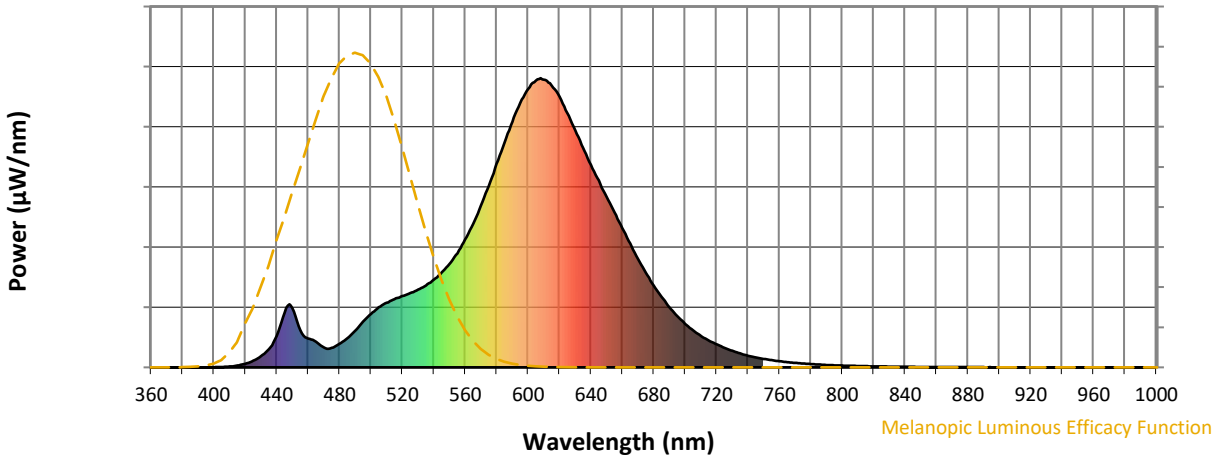


Scotopic Lumens: NR **S/P: 0.96**

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			

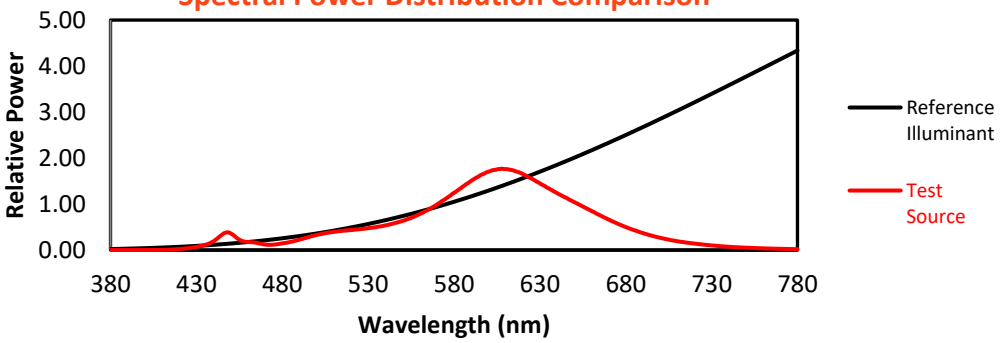
REPORT NUMBER: SP1-2501-332-7

TM-30-18

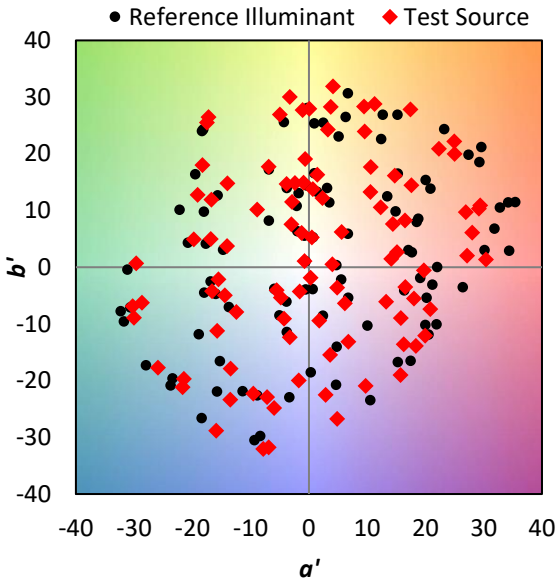
Summary

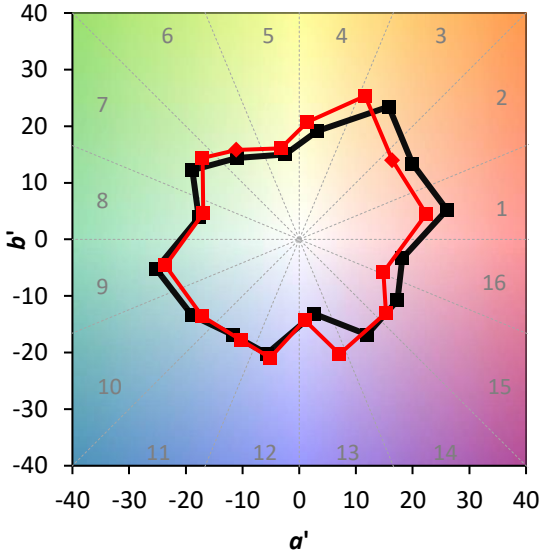
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

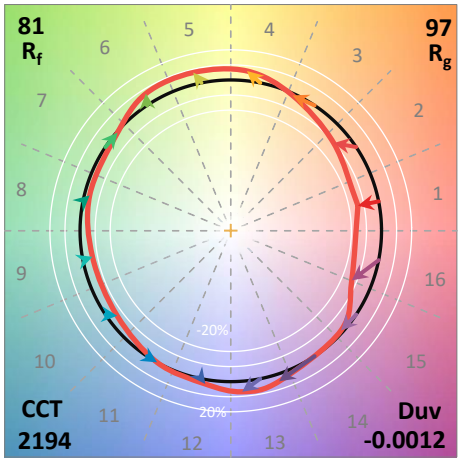
Spectral Power Distribution Comparison

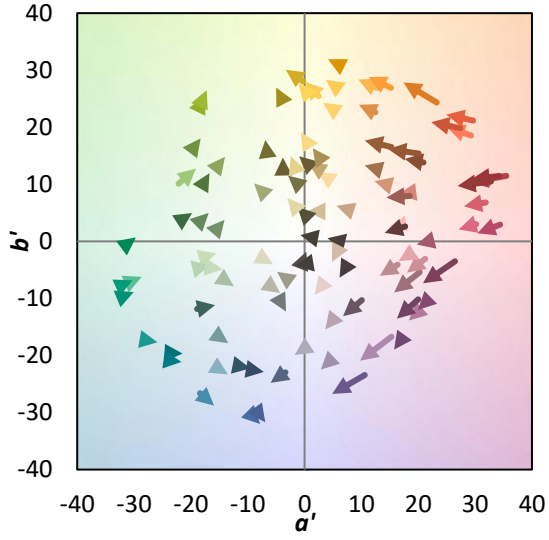


Color Vector Graphics







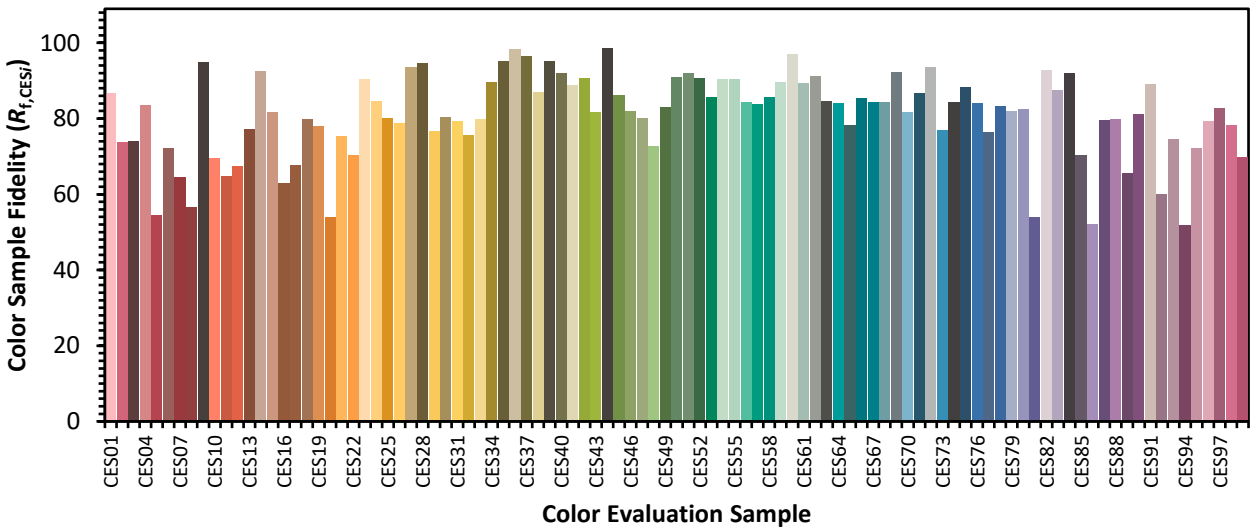


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

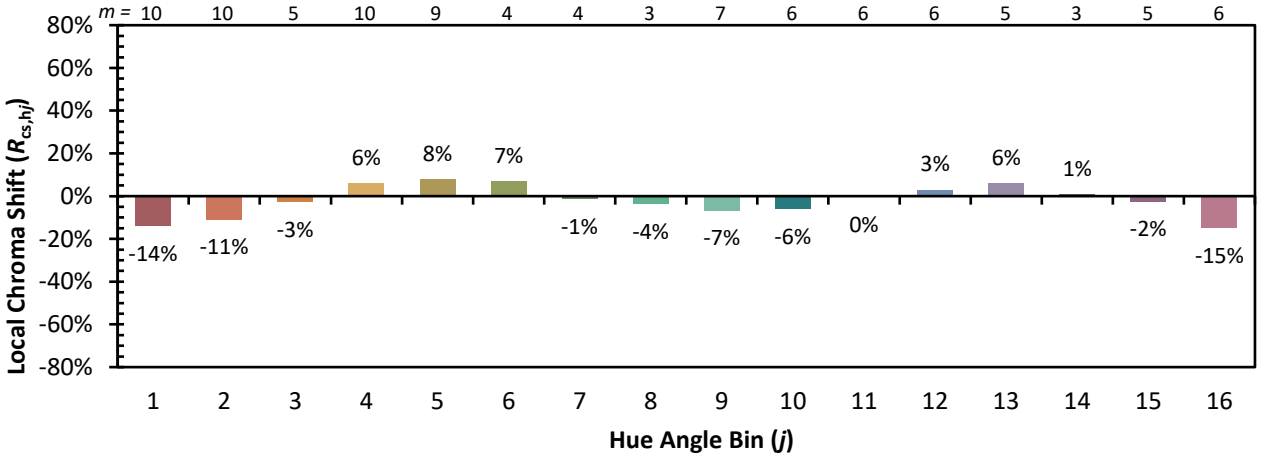
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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	

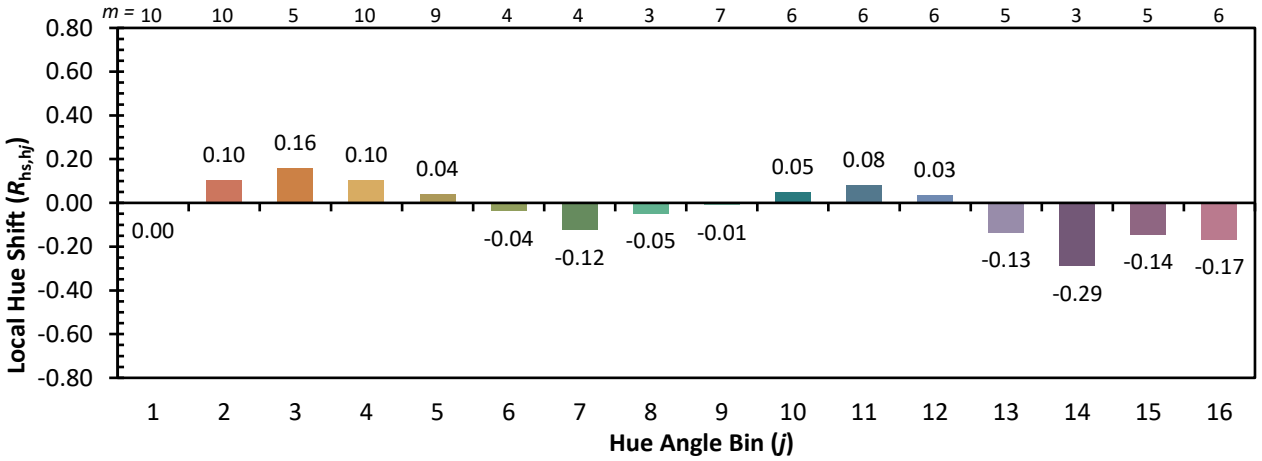


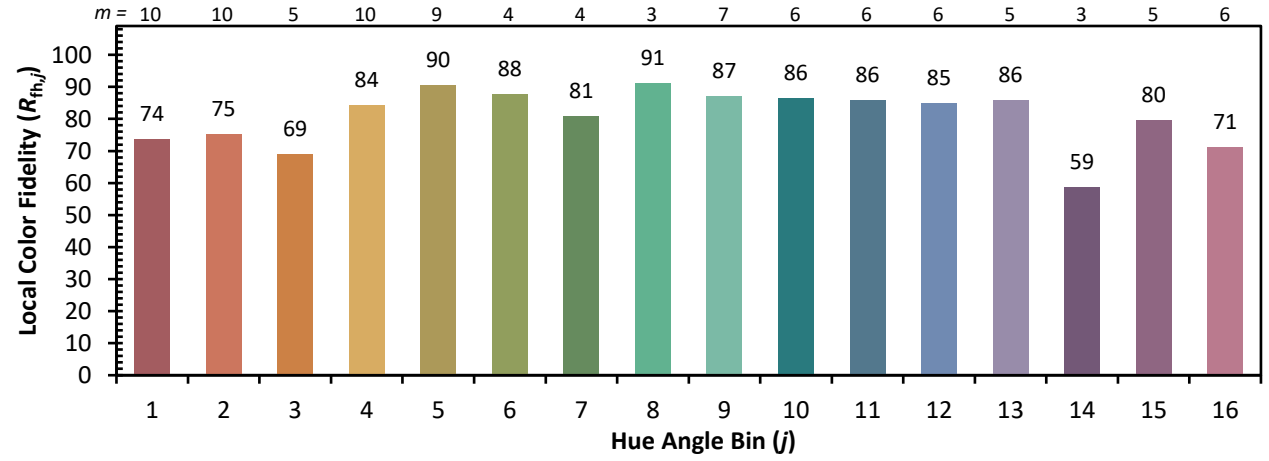
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Color Rendition by Hue-Angle Bin



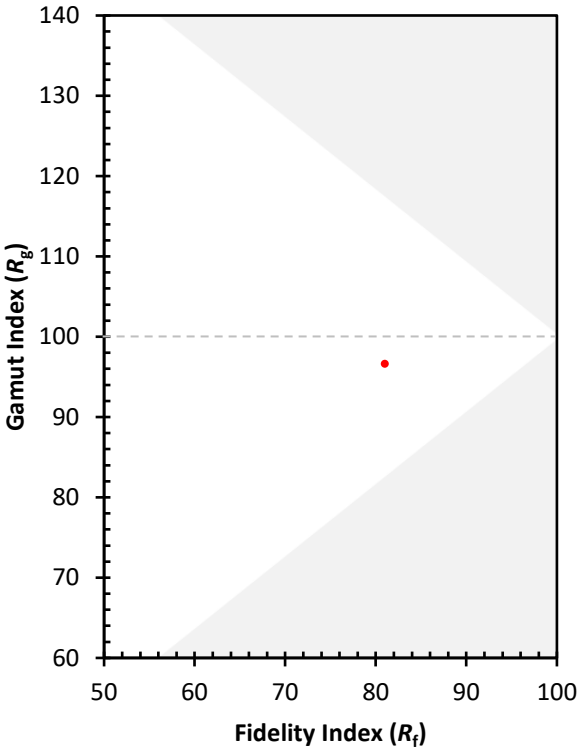


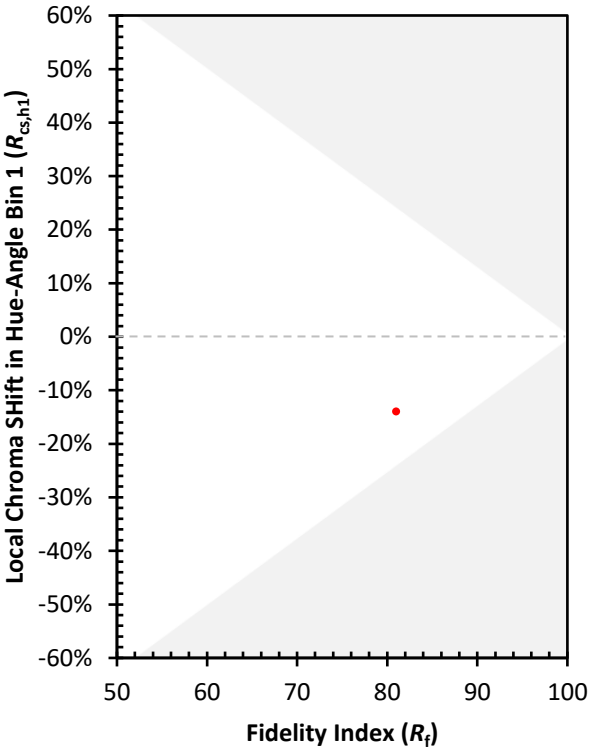


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Measure Comparisons





(END OF REPORT)