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: P1046622

Luminaire Tested: **FFX-CLB-20-740-U-FR-T3-HSS**

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:	P1046622
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-740-U-FR-T3-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3021 lumens
Efficiency:	N/A
Efficacy:	152.6 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

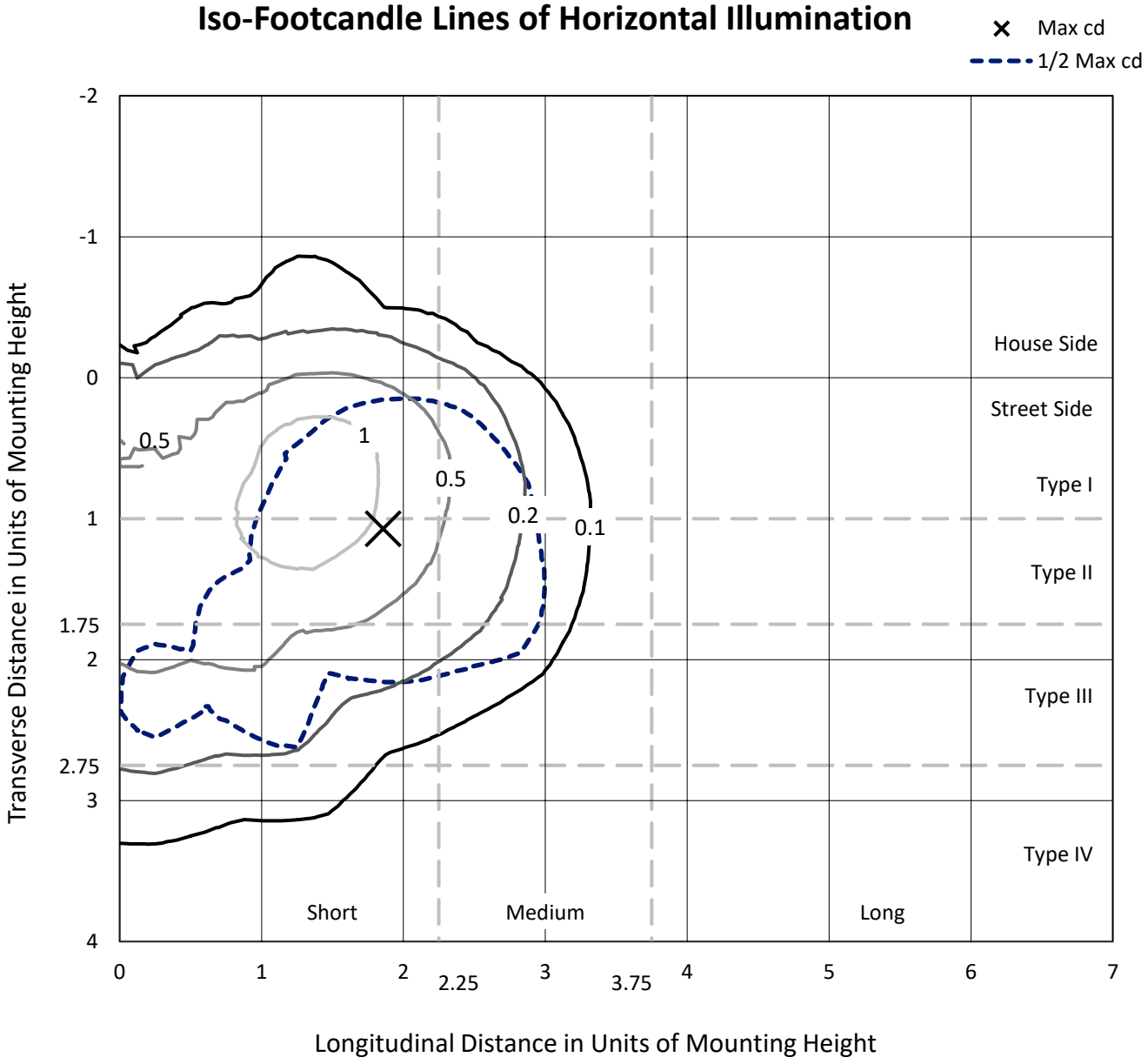


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Iso-Footcandle Lines of Horizontal Illumination



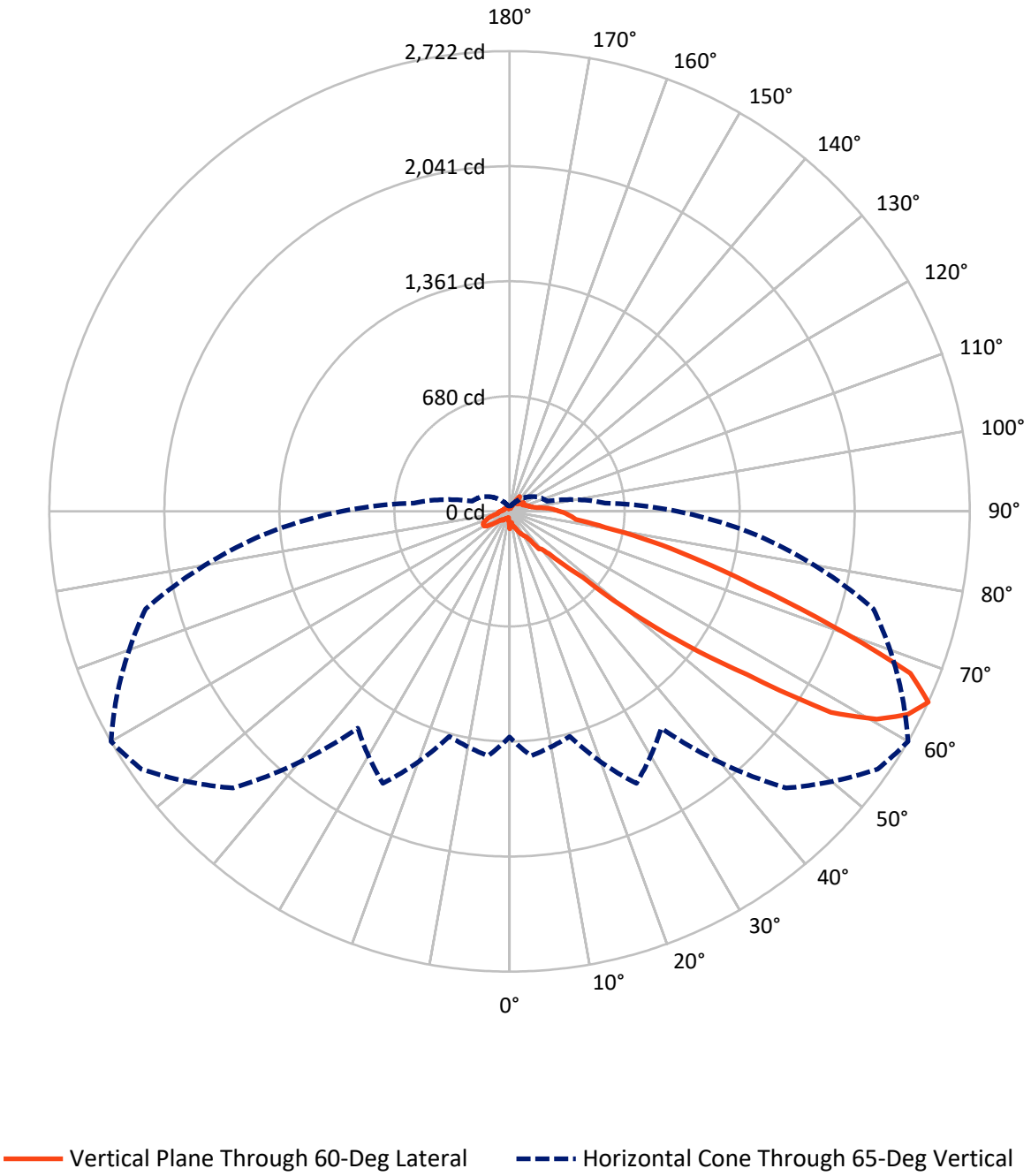
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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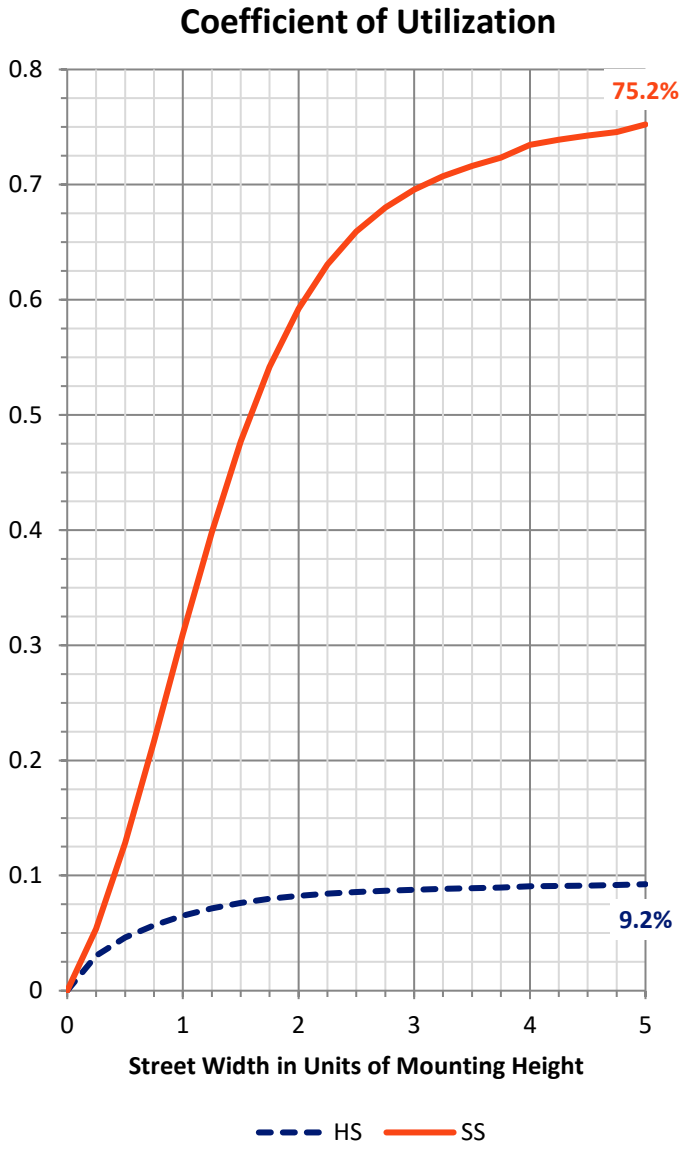
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	292.9	94.5	387.5
	% Fixture	9.7	3.1	12.8
Street Side	Lumens	2354.1	279.4	2633.6
	% Fixture	77.9	9.2	87.2
Total	Lumens	2647.0	374.0	3021.0
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.2
10°-20°	19.3	0.6
20°-30°	41.3	1.4
30°-40°	84.8	2.8
40°-50°	198.8	6.6
50°-60°	621.9	20.6
60°-70°	973.7	32.2
70°-80°	515.1	17.1
80°-90°	186.5	6.2
90°-100°	112.5	3.7
100°-110°	70.4	2.3
110°-120°	56.9	1.9
120°-130°	47.5	1.6
130°-140°	34.6	1.1
140°-150°	31.8	1.1
150°-160°	13.2	0.4
160°-170°	5.3	0.2
170°-180°	1.7	0.1
0°-90°	2647.0	87.6
0°-180°	3021.0	100.0



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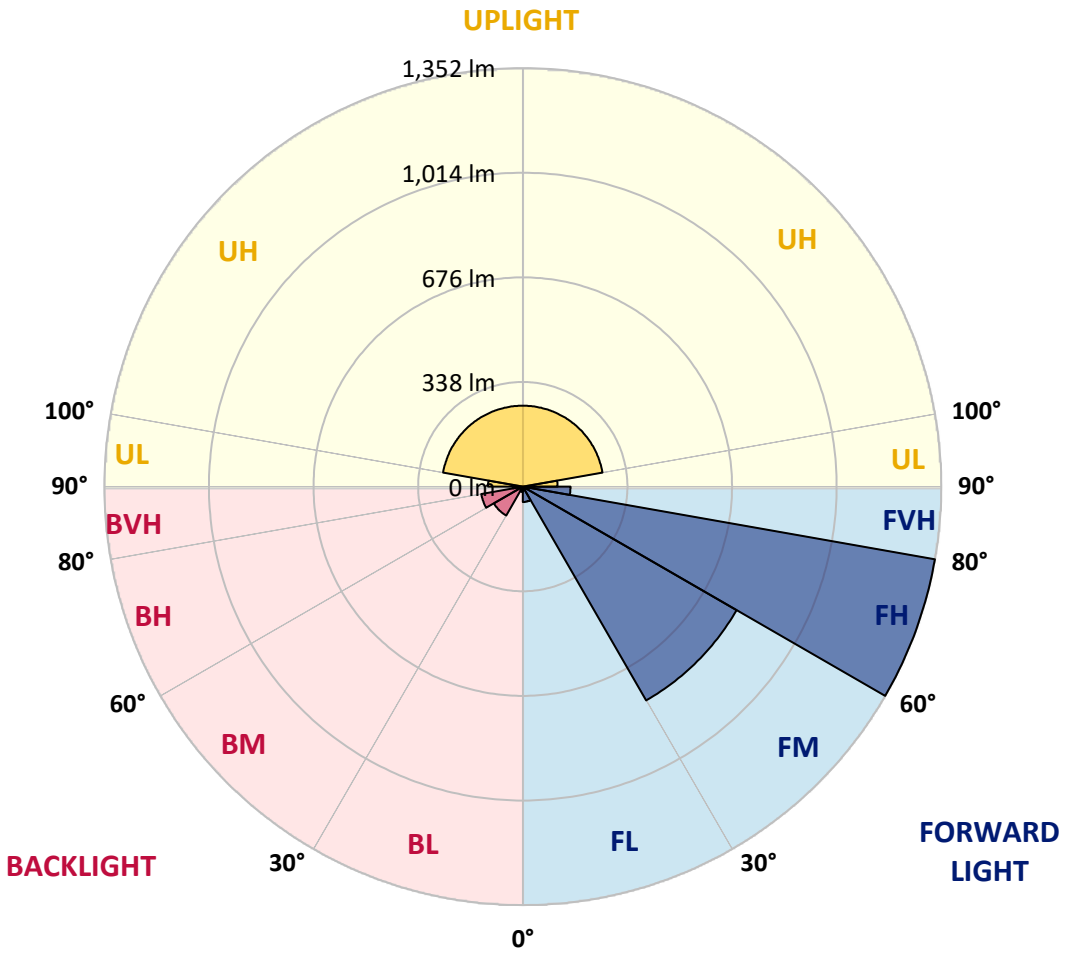
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	49.8	1.6			
FM	(30°-60°)	797.8	26.4			
FH	(60°-80°)	1352.4	44.8			G1/1800
FVH	(80°-90°)	154.1	5.1			G2/225
BL	(0°-30°)	16.4	0.5	B0/110		
BM	(30°-60°)	107.7	3.6	B0/220		
BH	(60°-80°)	136.4	4.5	B1/500		G1/500
BVH	(80°-90°)	32.4	1.1			G1/100
UL	(90°-100°)	112.5	3.7		U3/500	
UH	(100°-180°)	261.5	8.7		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	*103.4*	103.4	103.4	103.4
2.5°	56.6	58.8	71.6	84.8	88.6	80.4	69.6	*70.9*	76.9	105.4	118.0
5°	66.3	66.9	65.8	67.4	76.7	88.4	81.5	*73.6*	63.0	45.5	45.1
7.5°	76.2	76.2	75.8	70.3	63.9	61.9	67.8	*68.9*	67.8	56.6	48.8
10°	83.1	83.1	82.9	83.3	83.7	81.5	71.8	*68.1*	64.1	59.2	57.0
12.5°	100.8	101.2	104.1	102.5	96.8	90.8	91.9	*90.8*	84.8	74.5	65.8
15°	123.3	124.2	124.6	118.9	109.6	98.5	91.5	*89.7*	88.6	82.6	74.0
17.5°	135.0	134.6	129.3	123.3	117.3	109.4	102.7	*100.1*	96.1	88.6	79.3
20°	133.7	133.7	128.4	127.0	127.5	122.6	114.2	*110.9*	106.5	99.4	86.6
22.5°	137.4	137.7	134.3	135.4	140.3	135.4	127.3	*125.1*	120.9	110.7	97.7
25°	151.8	151.8	148.0	146.5	150.7	148.9	144.3	*141.6*	135.7	123.3	100.3
27.5°	164.8	163.9	160.4	160.9	156.9	156.0	154.9	*153.8*	148.5	128.8	101.6
30°	175.0	175.0	171.9	173.9	165.5	166.8	162.8	*165.9*	159.1	136.3	106.7
32.5°	184.3	185.6	184.5	187.1	177.2	182.9	176.1	*179.4*	175.2	149.8	121.1
35°	205.7	207.3	212.3	219.0	206.8	212.8	201.9	*206.6*	202.4	180.3	148.7
37.5°	290.8	288.3	277.3	266.5	254.8	279.3	276.6	*281.0*	274.4	238.8	187.8
40°	292.5	291.2	289.0	282.2	260.1	284.4	285.5	*293.4*	313.3	256.3	203.1
42.5°	300.1	301.6	327.9	331.2	314.6	352.4	342.0	*342.5*	410.5	303.6	262.0
45°	347.1	347.1	355.5	359.7	354.8	463.3	461.8	*448.5*	534.3	378.7	308.2
47.5°	397.9	399.5	414.9	456.5	483.7	586.4	616.9	*585.1*	697.5	496.9	424.7
50°	546.6	549.7	597.9	634.3	685.4	858.4	1008.4	*960.0*	1136.6	758.1	639.9
52.5°	654.2	692.7	719.2	856.4	876.3	1142.1	1335.6	*1319.1*	1437.5	1049.3	776.6
55°	778.6	838.5	856.2	1069.0	1104.5	1473.7	1674.6	*1704.0*	1711.3	1356.4	913.0
57.5°	983.4	1076.2	1079.6	1304.5	1310.7	1857.7	2177.5	*2242.2*	2168.4	1713.9	1128.0
60°	1152.3	1261.0	1224.5	1530.7	1469.3	2168.4	2422.1	*2495.4*	2358.4	2019.5	1278.2
62.5°	1256.8	1361.7	1313.8	1689.8	1564.8	2301.6	2568.1	*2643.4*	2492.8	2181.9	1393.8
65°	*1334.8*	*1451.2*	*1377.4*	*1774.7*	*1564.5*	*2313.6*	*2658.3*	*2721.9*	*2560.6*	*2228.5*	*1427.8*
67.5°	1336.3	1440.8	1348.7	1744.4	1460.5	2124.7	2517.5	*2557.7*	2378.8	2063.0	1326.6
70°	1168.2	1243.3	1141.0	1472.2	1178.1	1612.5	1966.0	*2013.7*	1833.7	1586.0	1027.9
72.5°	977.5	1006.9	905.5	1177.4	922.7	1220.3	1502.9	*1520.8*	1425.6	1188.0	794.5
75°	767.6	756.3	703.7	877.8	701.5	864.6	1180.3	*1163.1*	1110.7	874.3	606.3
77.5°	512.2	491.2	493.8	602.3	490.1	572.0	859.5	*860.2*	841.8	648.3	432.4
80°	312.4	313.1	304.5	382.0	323.5	380.3	592.4	*572.9*	573.4	427.5	302.7
82.5°	244.4	248.3	237.5	275.3	254.8	302.5	387.1	*397.9*	386.2	314.0	222.9
85°	240.0	243.5	232.2	255.6	242.2	289.0	364.1	*363.2*	357.1	291.2	210.8
87.5°	219.8	224.0	215.6	232.0	221.6	267.6	335.2	*330.8*	324.8	274.0	201.1
90°	185.6	193.3	187.6	207.9	193.6	230.2	291.4	*289.7*	286.6	242.2	179.0
92.5°	168.8	170.4	166.2	184.5	168.6	201.7	258.7	*253.2*	246.4	210.1	152.5
95°	151.1	150.5	146.5	161.3	147.2	168.8	219.8	*211.4*	207.9	177.4	127.3
97.5°	121.1	121.3	119.3	129.5	119.3	134.8	165.0	*162.0*	154.9	132.6	97.4
100°	106.1	106.7	105.4	113.3	104.7	114.7	137.4	*136.8*	131.0	113.1	85.1
102.5°	100.3	100.5	102.3	107.2	99.0	106.3	125.3	*125.5*	121.7	105.4	80.0
105°	96.3	96.1	97.4	101.4	94.3	99.6	117.1	*117.1*	111.8	99.4	75.8
107.5°	93.2	92.8	95.0	98.3	93.5	95.0	108.5	*109.4*	104.3	92.6	72.0
110°	89.7	89.5	93.2	95.7	91.0	91.3	103.0	*102.3*	97.7	90.1	70.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	91.0	92.4	96.6	89.7	82.9	83.3	92.4	*93.5*	90.1	82.4	67.4
115°	89.9	91.3	96.8	87.1	76.9	79.5	87.1	*87.9*	83.1	76.7	63.4
117.5°	85.9	86.4	89.7	87.3	76.7	79.8	83.5	*85.1*	81.5	76.7	64.1
120°	101.6	98.3	98.3	94.6	82.6	88.2	95.2	*96.6*	93.2	84.2	63.9
122.5°	93.5	92.4	92.6	87.7	81.8	86.4	94.8	*97.0*	94.1	85.1	63.9
125°	73.6	73.8	72.7	74.2	71.8	73.4	77.8	*81.3*	78.7	73.8	60.8
127.5°	66.9	66.7	65.4	72.0	64.5	67.6	71.8	*73.8*	71.1	65.6	55.0
130°	65.2	65.2	68.9	75.8	71.4	70.0	68.5	*70.5*	70.0	66.5	55.0
132.5°	61.0	61.2	66.7	75.6	73.8	67.6	62.1	*63.2*	65.2	66.1	58.1
135°	61.0	60.3	58.6	60.5	59.4	61.0	59.4	*61.0*	61.4	61.0	50.8
137.5°	65.0	64.5	60.1	57.4	57.7	62.5	62.7	*63.4*	62.7	59.2	49.3
140°	63.6	62.1	59.0	57.9	58.1	63.2	65.2	*65.6*	65.0	58.1	46.4
142.5°	61.4	61.4	62.3	63.6	65.6	89.3	83.1	*88.8*	89.0	82.0	47.7
145°	88.2	89.0	86.4	83.5	90.6	107.4	101.0	*107.2*	111.4	103.6	65.8
147.5°	79.5	80.9	79.3	76.9	86.2	86.4	82.4	*83.1*	84.2	85.9	66.5
150°	56.3	54.8	57.2	55.5	64.7	64.3	58.8	*60.1*	62.5	62.7	53.0
152.5°	41.8	41.1	40.7	40.4	46.6	42.9	40.9	*40.2*	40.7	40.4	38.0
155°	36.9	36.9	36.7	37.8	41.1	38.4	36.5	*36.7*	35.6	34.9	33.6
157.5°	28.7	28.1	28.7	30.7	32.0	29.6	28.9	*28.5*	28.3	27.2	27.6
160°	23.6	23.6	24.1	25.6	26.5	24.7	23.4	*23.0*	23.0	22.5	24.1
162.5°	20.1	20.1	20.5	21.0	21.4	20.5	20.1	*20.1*	19.9	19.9	21.4
165°	16.8	16.8	17.0	17.9	18.1	17.7	17.5	*17.7*	17.7	18.6	19.9
167.5°	15.5	15.5	15.7	16.1	16.4	16.1	16.8	*17.5*	18.1	19.0	19.4
170°	14.8	14.8	15.0	15.2	15.7	16.1	17.5	*17.9*	18.1	17.9	17.9
172.5°	15.2	15.2	15.2	15.7	16.1	17.2	18.3	*18.3*	17.9	17.5	17.5
175°	15.5	15.2	15.5	15.9	16.6	17.2	17.7	*18.1*	18.1	17.9	17.9
177.5°	15.2	15.2	15.5	15.7	15.7	15.7	15.9	*16.1*	16.1	16.4	16.6
180°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	*15.0*	15.0	15.0	15.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4
2.5°	115.6	109.1	80.9	53.7	65.8	96.1	112.0	105.0	78.2	45.1	38.2
5°	47.3	53.0	61.9	59.2	53.2	43.7	32.9	32.7	45.3	55.0	55.9
7.5°	45.5	41.8	39.6	43.7	40.9	28.3	23.9	19.9	21.2	31.2	29.8
10°	56.1	54.8	51.0	41.8	30.7	25.4	23.9	24.3	26.1	23.4	23.2
12.5°	62.5	59.2	51.0	48.4	41.1	29.2	24.1	22.3	23.9	29.8	32.3
15°	68.5	63.6	53.5	44.9	36.9	30.3	25.9	22.5	20.1	17.5	17.2
17.5°	73.8	67.6	56.3	46.6	36.7	30.3	25.0	19.7	17.0	16.1	16.1
20°	80.2	74.5	60.1	48.6	36.9	29.6	24.1	19.4	17.0	16.1	16.1
22.5°	88.8	79.3	64.1	49.5	37.3	29.4	23.6	19.9	17.7	16.4	16.4
25°	91.3	84.0	66.7	52.4	39.1	30.5	24.7	20.5	18.1	17.0	16.8
27.5°	93.0	87.5	71.8	54.8	41.1	32.7	26.5	21.4	18.6	17.5	17.2
30°	99.9	95.0	77.3	58.3	43.7	34.9	28.1	22.8	19.4	17.7	17.2
32.5°	114.5	107.6	85.5	61.9	47.1	37.3	30.0	24.1	20.3	18.1	17.7
35°	142.3	136.8	107.2	69.2	50.6	40.4	32.5	25.9	21.4	18.8	18.6
37.5°	174.6	165.9	130.1	80.4	53.0	43.1	34.9	27.6	22.5	19.9	19.4
40°	180.1	155.5	115.3	73.4	53.5	44.4	37.1	29.6	23.9	20.8	20.1
42.5°	225.8	190.9	133.7	75.8	54.6	44.4	37.6	30.9	25.2	21.4	21.0
45°	238.8	190.2	133.0	84.6	59.9	45.7	37.8	31.6	26.3	22.5	21.9
47.5°	304.5	233.3	135.0	89.9	65.4	50.4	39.3	32.0	26.5	23.2	23.0
50°	435.3	312.0	162.4	108.5	78.4	58.8	44.2	33.6	27.0	23.9	23.6
52.5°	537.6	370.5	174.3	129.9	99.9	74.7	52.8	37.6	27.8	24.1	23.6
55°	639.0	441.9	196.4	153.3	118.9	89.9	65.6	44.0	30.0	24.5	24.1
57.5°	793.7	530.5	223.8	176.3	141.0	104.3	73.4	49.7	32.7	25.0	24.3
60°	887.6	561.9	226.7	188.0	153.6	114.5	76.0	51.9	36.0	26.7	25.6
62.5°	972.0	590.2	228.7	193.3	155.8	115.6	76.2	50.2	36.7	29.4	28.1
65°	*993.8*	*567.2*	*230.7*	*195.1*	*151.8*	*109.1*	*73.4*	*48.4*	*34.9*	*31.8*	*31.6*
67.5°	944.3	508.6	217.0	188.5	141.2	98.1	66.1	46.0	34.0	30.9	31.6
70°	735.8	403.9	198.9	173.7	122.0	82.9	58.8	42.9	33.6	29.4	28.7
72.5°	579.8	343.6	200.8	165.5	103.0	73.4	51.9	39.1	31.8	28.7	28.3
75°	451.6	287.9	193.3	142.5	83.5	62.5	45.5	34.9	29.6	27.6	27.4
77.5°	331.2	228.5	159.5	109.8	68.9	52.1	39.8	32.0	28.1	26.3	26.1
80°	217.2	161.5	111.1	87.7	59.4	47.1	36.2	30.0	27.0	25.4	25.2
82.5°	184.7	143.4	98.8	80.6	55.0	45.3	35.6	29.4	26.7	25.0	24.7
85°	178.1	146.9	101.0	83.5	52.4	43.3	34.5	28.9	26.1	24.5	24.3
87.5°	167.3	133.0	97.7	74.9	48.4	39.6	32.3	27.8	25.0	23.6	23.2
90°	148.9	113.8	84.0	64.3	46.0	37.1	30.5	26.5	24.3	23.0	22.5
92.5°	120.2	86.4	66.1	56.8	44.9	36.9	30.3	26.5	24.3	23.0	22.5
95°	101.0	74.0	59.2	51.9	41.8	34.9	28.9	25.6	23.6	22.3	22.3
97.5°	80.0	61.9	52.8	46.6	37.6	31.8	27.4	24.5	22.8	21.4	21.4
100°	70.9	57.4	50.2	43.7	35.6	30.0	26.7	23.9	22.3	20.8	20.8
102.5°	67.4	55.7	49.5	41.5	34.0	28.9	25.6	23.0	21.7	20.1	20.1
105°	65.2	55.0	49.1	40.4	32.5	27.6	24.5	21.9	20.8	19.7	19.4
107.5°	63.0	54.1	49.7	39.8	31.2	26.7	24.5	21.7	20.3	19.4	19.4
110°	61.9	54.6	49.5	39.1	30.7	26.5	24.3	21.9	20.8	19.9	19.7

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

Scaled Data Report

REPORT NUMBER: P1046622
CATALOG NUMBER: FFX-CLB-20-740-U-FR-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	59.0	52.1	47.3	37.1	30.0	25.9	23.4	21.7	20.1	19.2	19.0
115°	56.1	47.9	43.3	35.4	28.5	25.0	22.8	21.0	19.4	18.8	18.8
117.5°	57.2	46.8	39.8	34.7	28.1	24.3	22.3	20.5	19.2	18.8	18.6
120°	56.6	49.3	44.6	37.1	27.8	23.6	21.9	20.1	19.0	18.8	18.8
122.5°	54.1	53.2	49.1	37.8	27.0	23.9	22.3	20.8	19.7	19.0	19.0
125°	52.1	51.7	45.7	34.0	27.6	24.7	23.4	21.9	21.2	20.5	20.3
127.5°	48.2	43.3	38.0	32.7	28.1	25.2	23.9	23.0	22.3	21.2	21.0
130°	48.4	44.4	39.1	32.9	27.0	24.7	24.1	23.2	22.1	20.3	20.1
132.5°	52.6	48.4	38.9	30.5	25.9	24.7	24.3	23.2	20.8	18.8	18.6
135°	43.7	40.9	34.5	29.2	26.3	25.6	25.4	23.0	19.4	18.1	17.9
137.5°	42.6	38.4	33.1	29.4	27.4	26.1	25.2	22.1	18.1	16.8	16.4
140°	40.2	36.2	32.5	29.8	26.5	22.1	20.1	18.6	16.8	15.7	15.5
142.5°	40.2	36.5	30.7	26.3	23.0	20.5	19.4	18.1	16.1	14.6	14.1
145°	47.5	43.1	37.1	33.4	29.8	26.1	22.3	18.3	15.0	13.0	12.8
147.5°	53.9	48.6	44.0	37.8	32.0	25.9	20.5	16.1	13.7	12.8	12.8
150°	44.2	39.3	36.9	31.6	26.5	21.2	17.5	15.0	13.7	13.3	13.3
152.5°	33.1	27.8	26.1	23.2	20.1	17.5	15.7	14.4	13.9	13.7	13.7
155°	30.9	26.5	24.3	21.7	18.6	16.4	15.2	14.6	14.1	13.9	13.9
157.5°	27.0	24.5	21.7	19.7	17.5	15.9	15.2	14.8	14.4	14.1	14.1
160°	24.1	22.3	19.7	18.1	16.6	15.9	15.9	15.7	15.0	14.8	14.8
162.5°	21.7	21.0	18.6	17.2	16.6	16.8	17.9	17.7	16.6	15.7	15.5
165°	20.1	19.4	17.7	17.0	16.6	17.5	19.7	19.2	17.5	16.4	16.4
167.5°	19.2	18.8	17.5	16.8	17.0	18.8	20.8	21.0	19.4	17.9	17.7
170°	17.7	17.7	17.5	17.7	17.7	18.6	19.7	20.3	20.3	20.8	20.5
172.5°	17.5	17.7	18.3	18.3	18.1	18.3	19.2	20.3	21.0	21.7	21.9
175°	17.9	18.1	18.6	18.8	18.8	19.2	20.5	21.4	21.9	21.7	21.7
177.5°	16.6	16.8	17.0	17.9	18.3	18.8	20.1	20.5	21.0	21.4	21.4
180°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

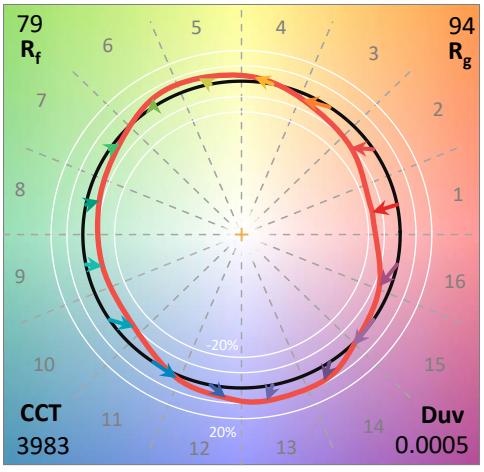
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-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):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

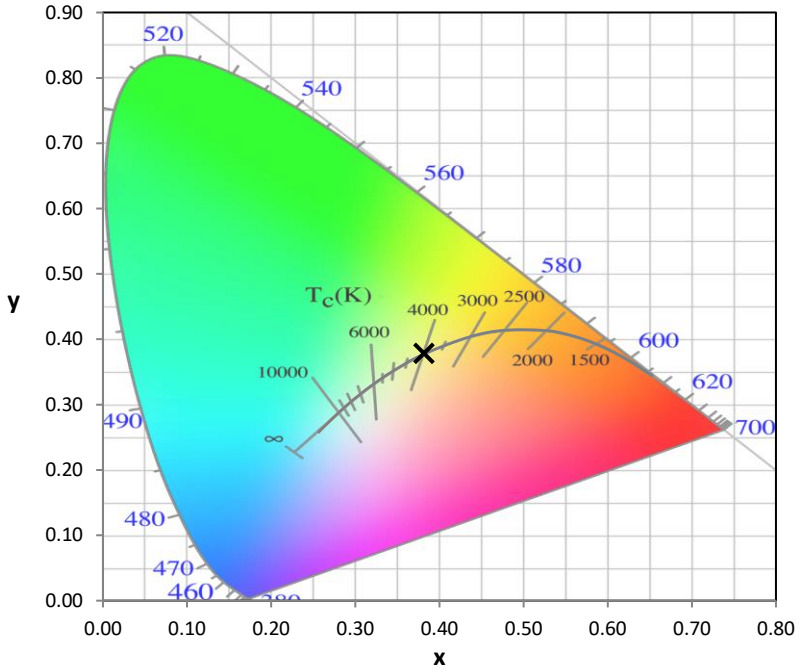
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

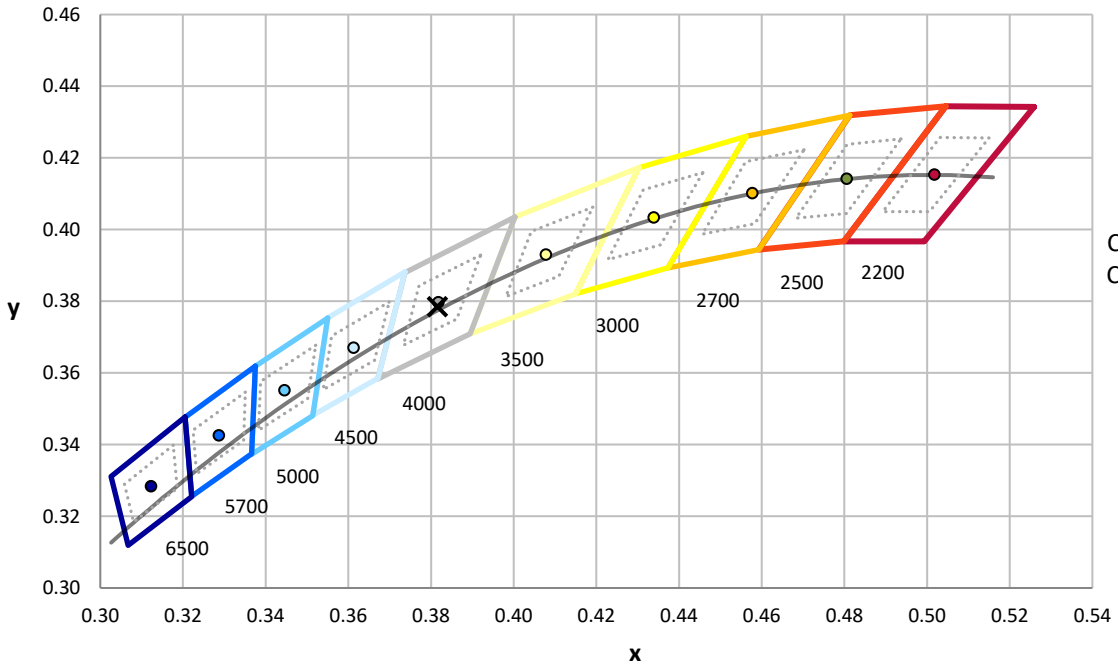
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

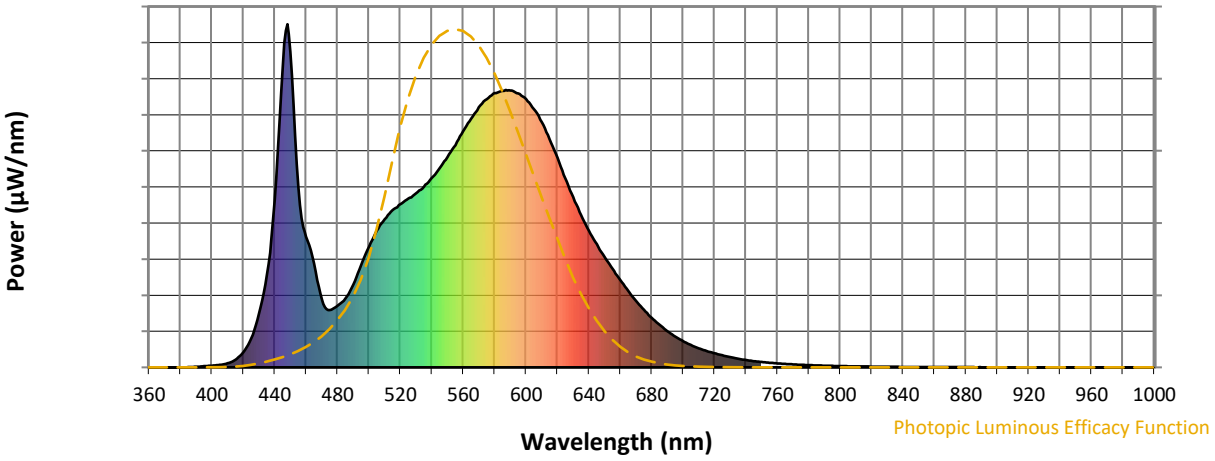


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

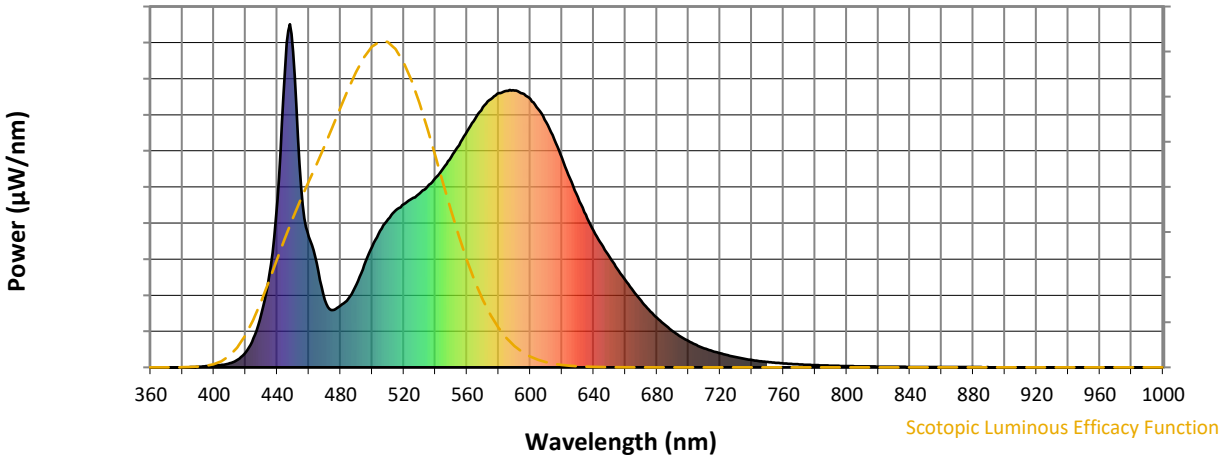


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

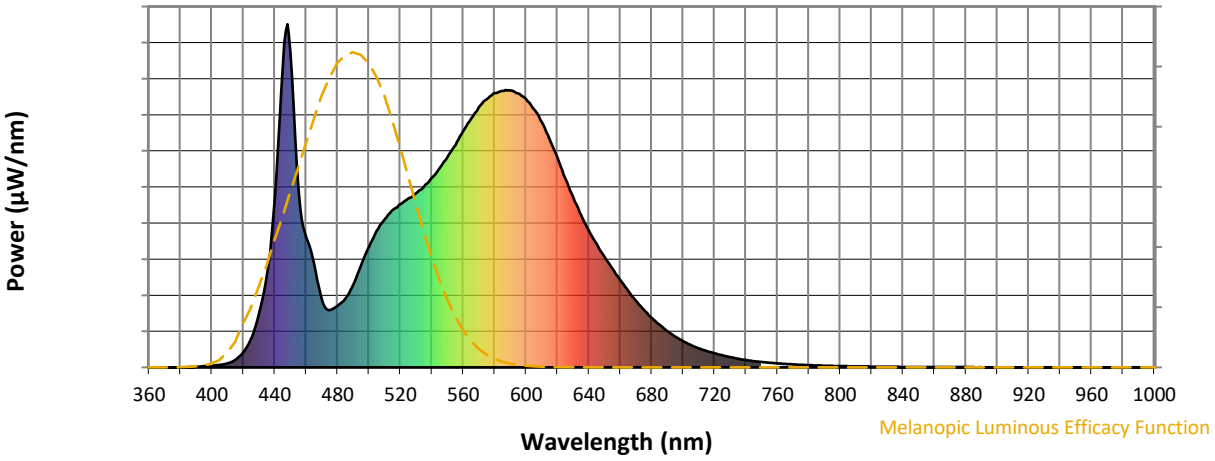


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

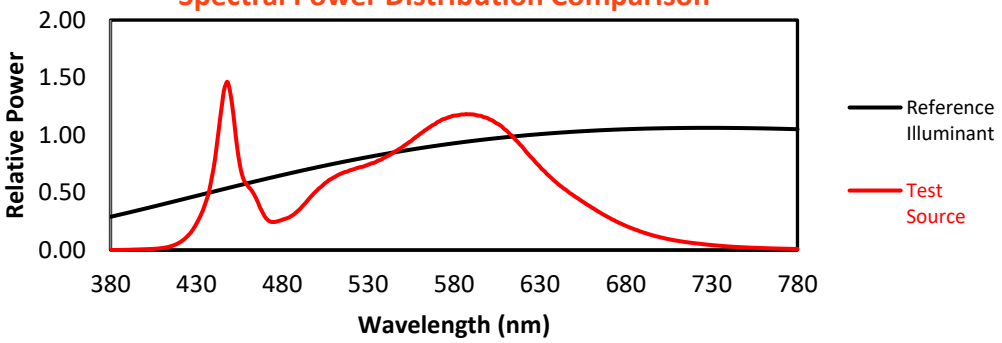
REPORT NUMBER: SP1-2501-332-11

TM-30-18

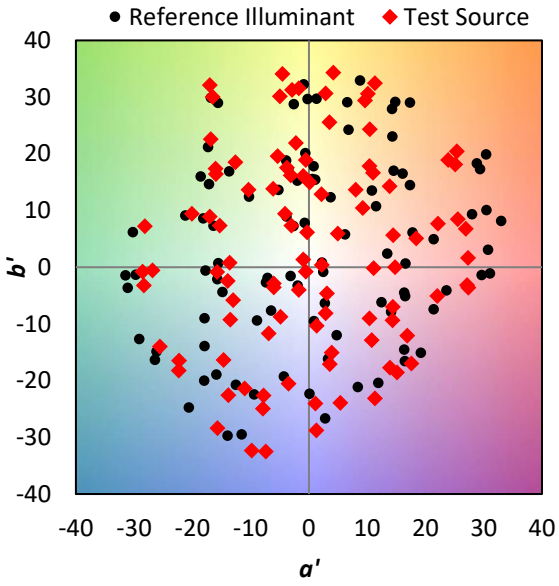
Summary

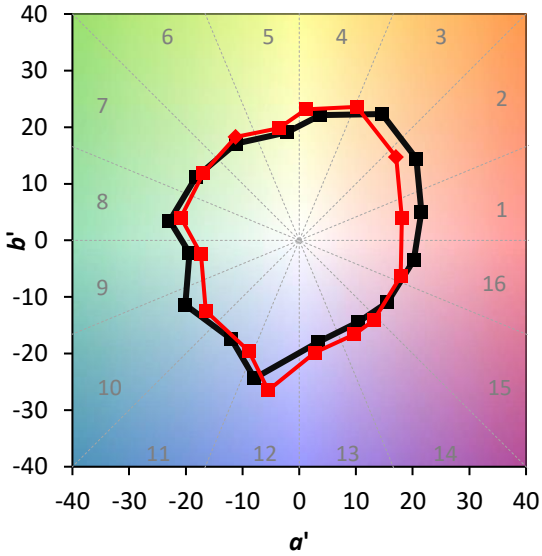
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

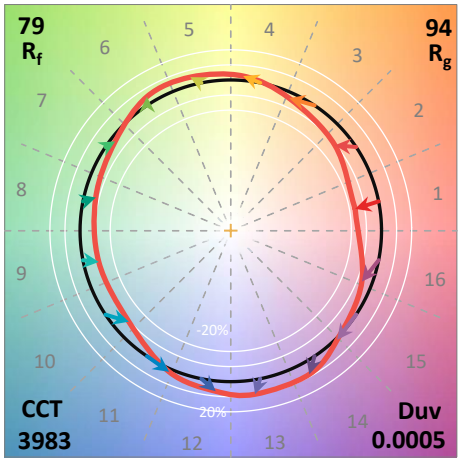
Spectral Power Distribution Comparison

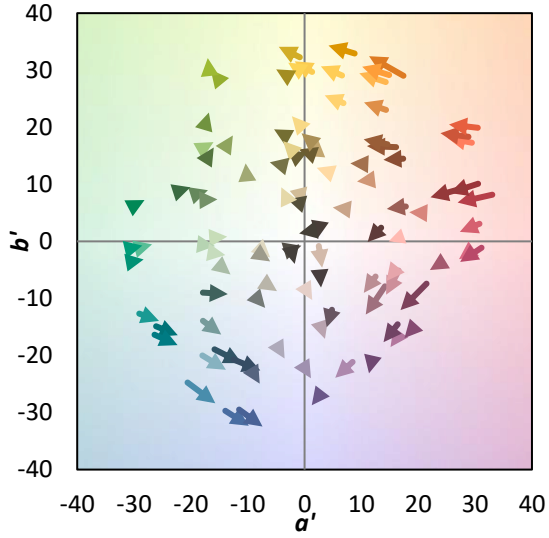


Color Vector Graphics







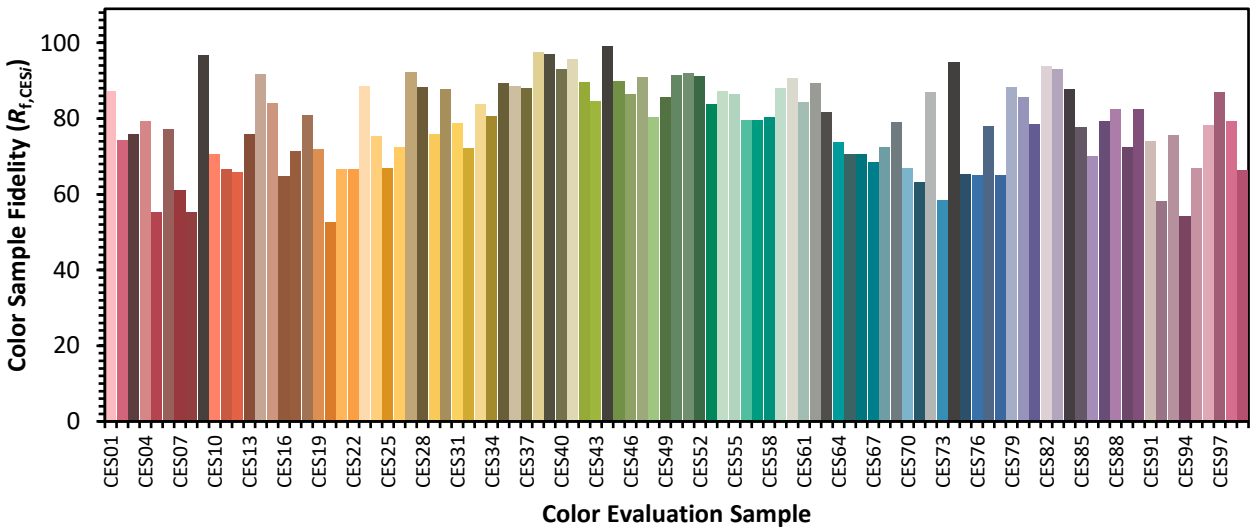


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

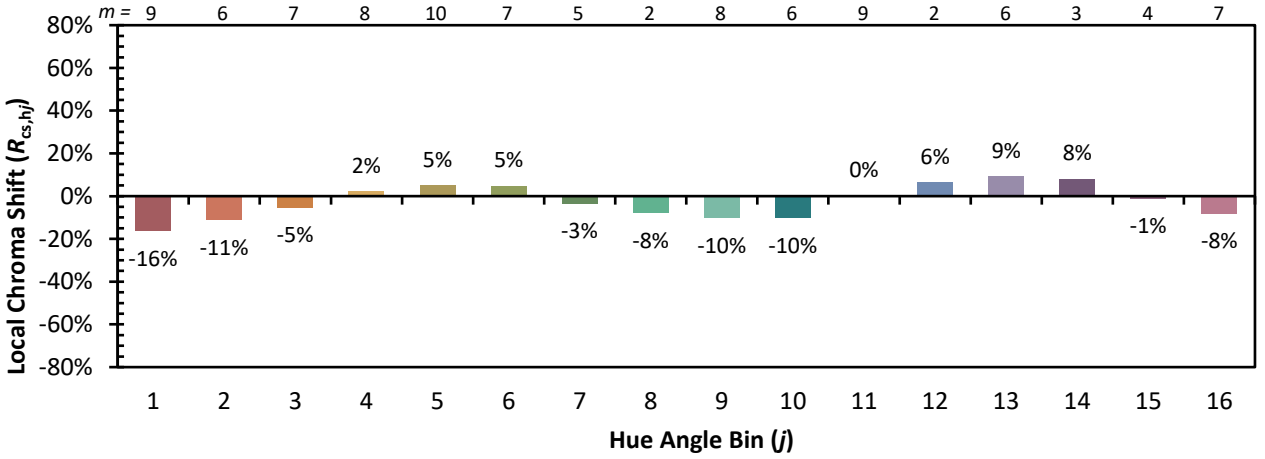
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

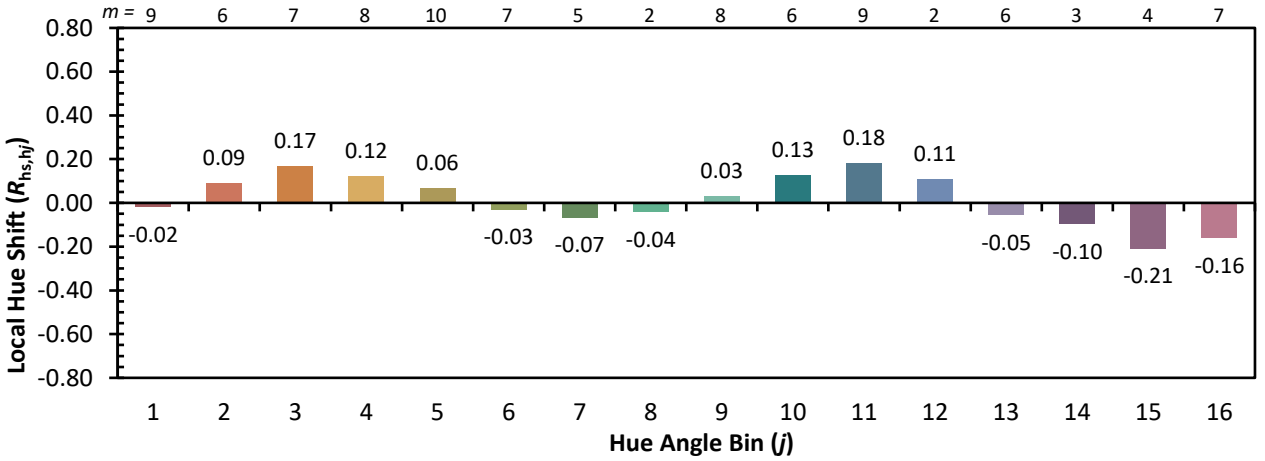


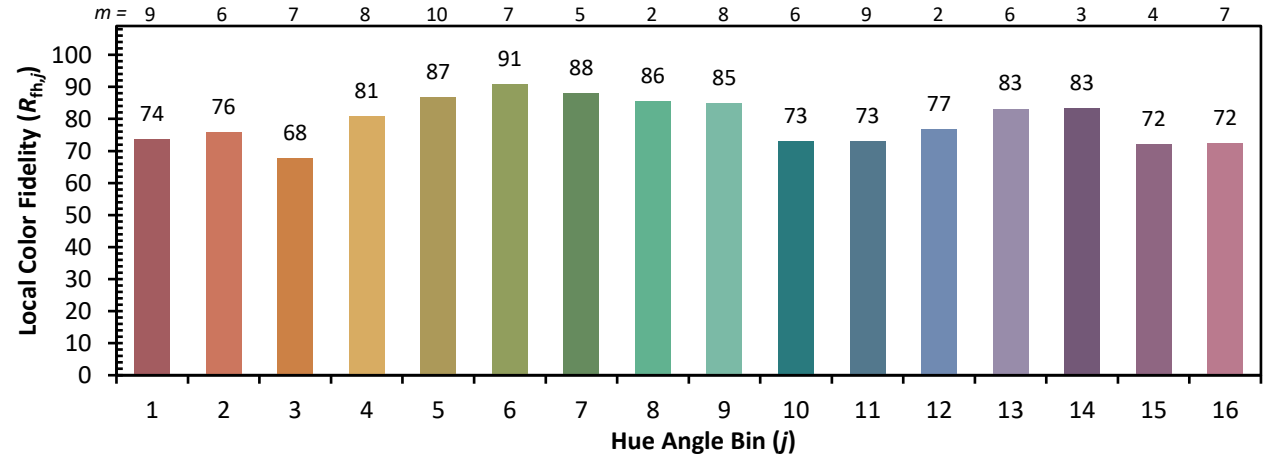
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Color Rendition by Hue-Angle Bin



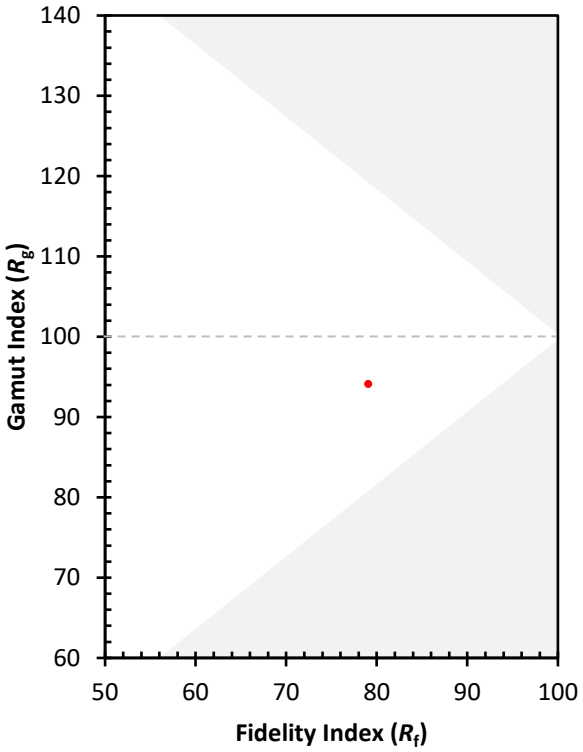


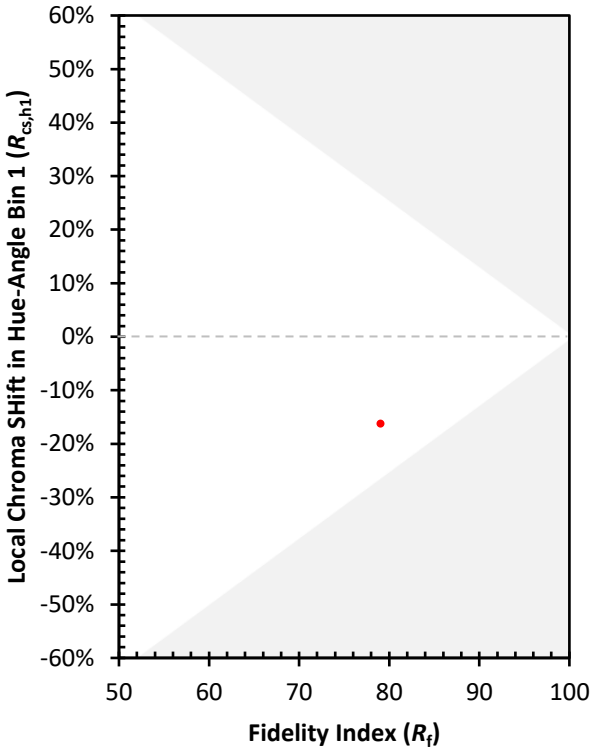


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Measure Comparisons





(END OF REPORT)