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: P1045776

Luminaire Tested: **FFX-CLB-20-750-U-FR-T5-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:	P1045776
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-750-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2216.3 lumens
Efficiency:	N/A
Efficacy:	111.9 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

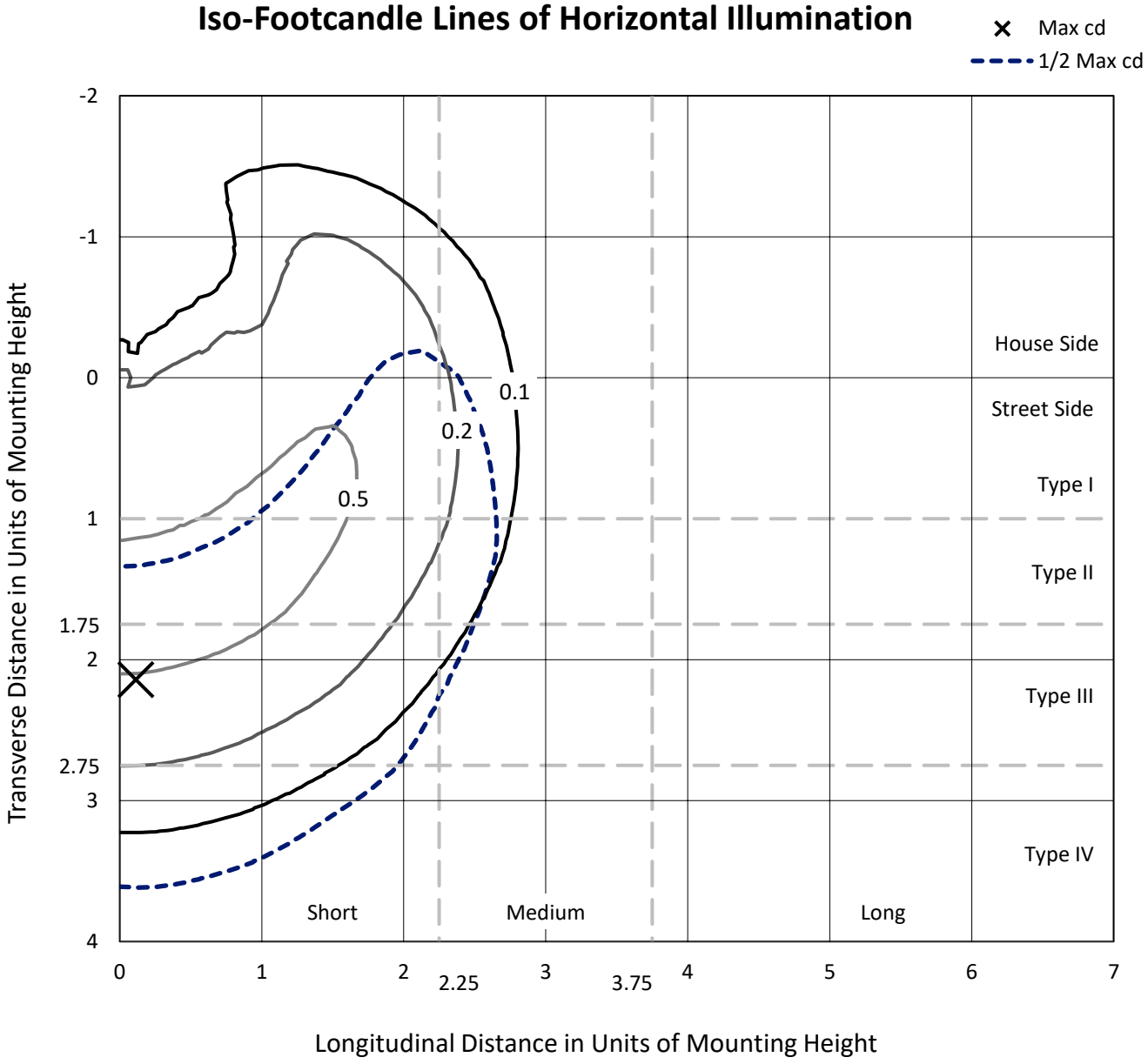


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Iso-Footcandle Lines of Horizontal Illumination



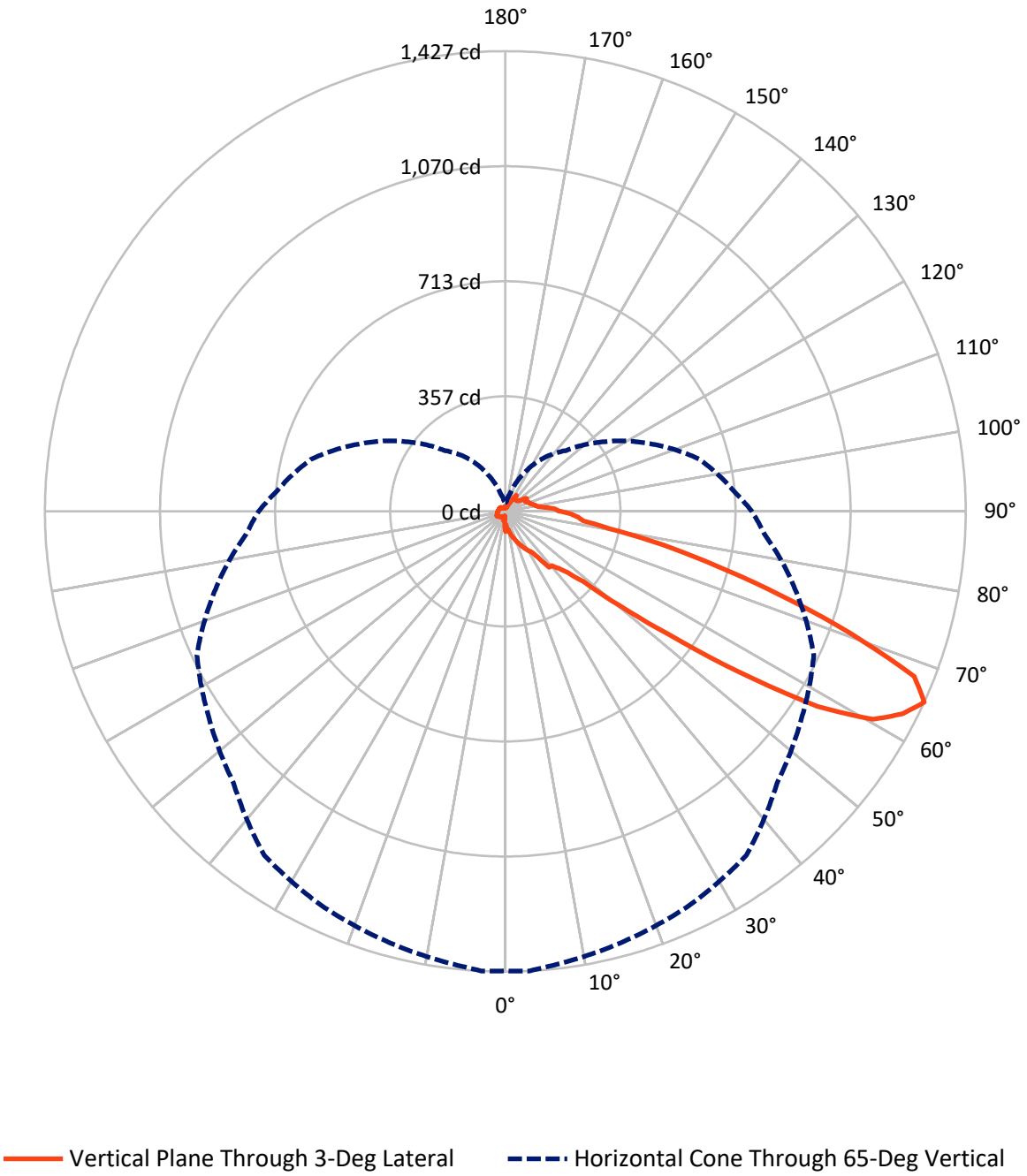
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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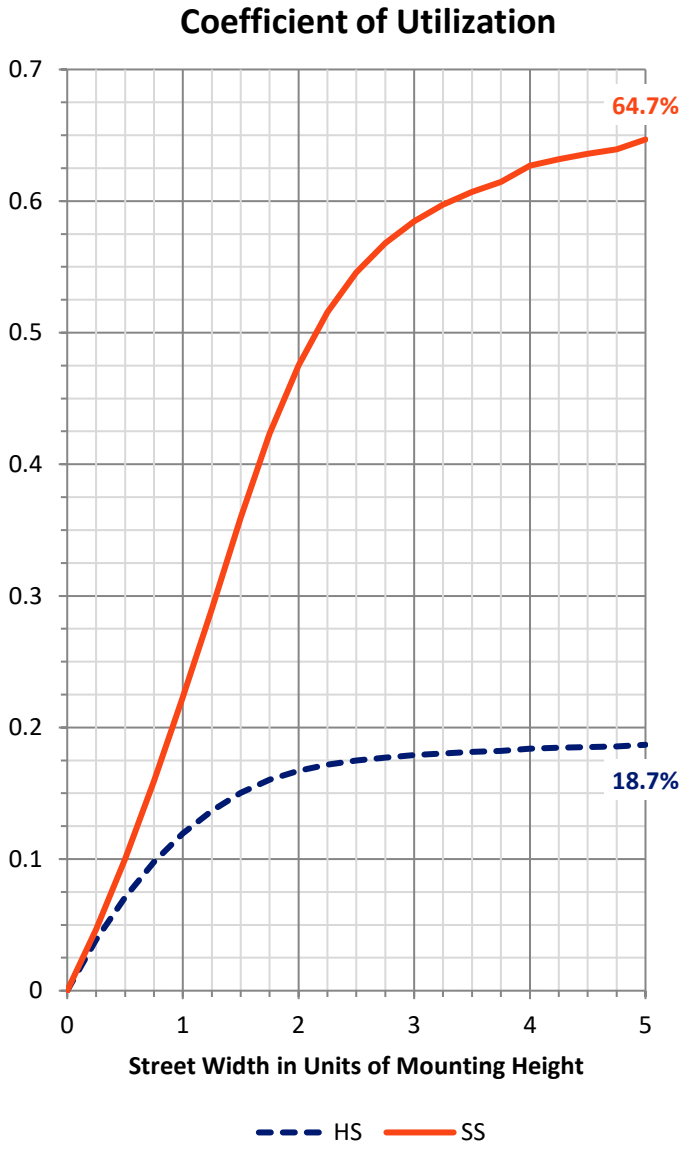
REPORT NUMBER: P1045776
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.8	93.2	522.0
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	1495.2	199.1	1694.3
	% Fixture	67.5	9.0	76.4
Total	Lumens	1923.9	292.3	2216.3
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.2
10°-20°	15.1	0.7
20°-30°	33.7	1.5
30°-40°	68.1	3.1
40°-50°	136.8	6.2
50°-60°	439.0	19.8
60°-70°	700.1	31.6
70°-80°	380.9	17.2
80°-90°	146.3	6.6
90°-100°	87.2	3.9
100°-110°	57.9	2.6
110°-120°	46.1	2.1
120°-130°	38.4	1.7
130°-140°	26.5	1.2
140°-150°	21.4	1.0
150°-160°	9.6	0.4
160°-170°	3.9	0.2
170°-180°	1.3	0.1
0°-90°	1923.9	86.8
0°-180°	2216.3	100.0



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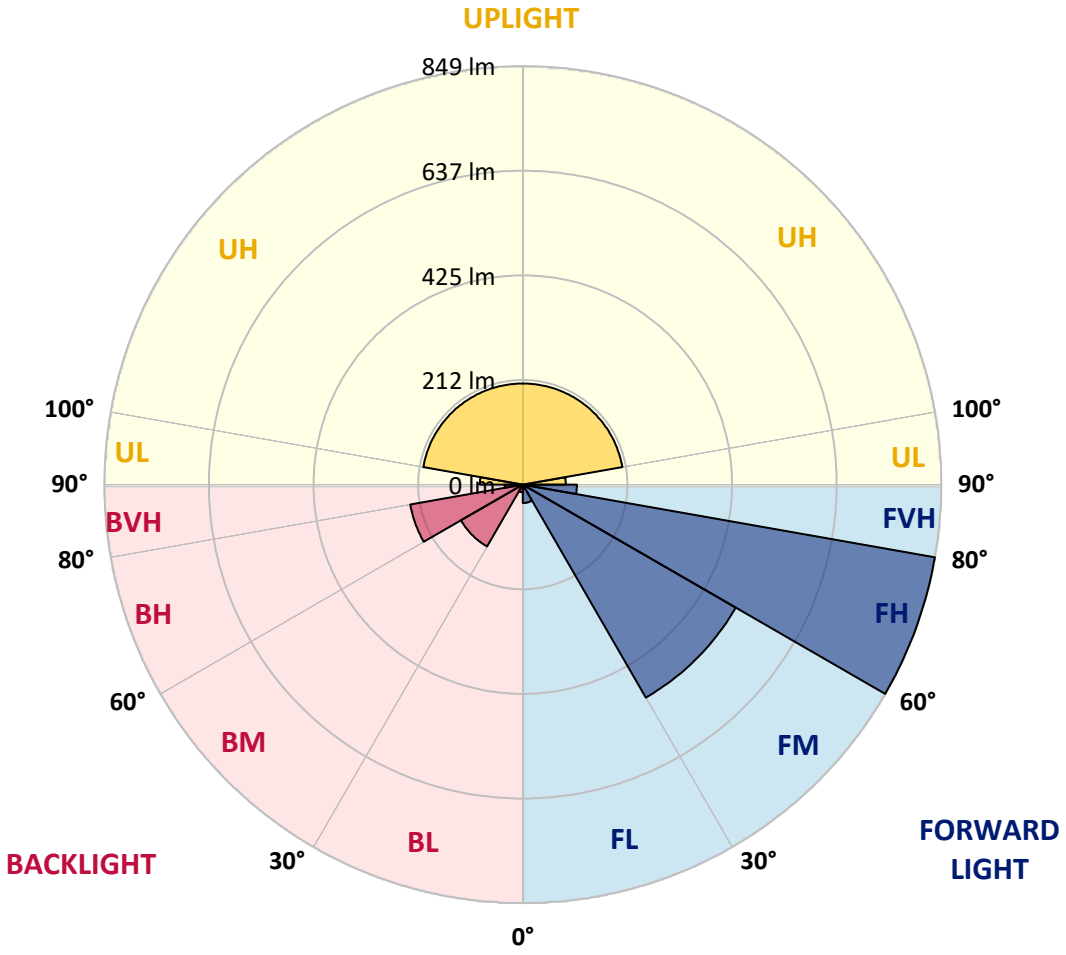
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	37.4	1.7			
FM	(30°-60°)	498.9	22.5			
FH	(60°-80°)	849.1	38.3			G1/1800
FVH	(80°-90°)	109.7	5.0			G2/225
BL	(0°-30°)	15.4	0.7	B0/110		
BM	(30°-60°)	144.9	6.5	B0/220		
BH	(60°-80°)	231.9	10.5	B1/500		G1/500
BVH	(80°-90°)	36.6	1.7			G1/100
UL	(90°-100°)	87.2	3.9		U3/500	
UH	(100°-180°)	205.1	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	40.5	40.2	41.0	44.6	53.7	56.8	54.2	49.9	49.1	53.7	57.3
5°	55.3	54.7	54.2	50.7	47.1	48.9	54.0	55.3	50.2	40.7	34.6
7.5°	56.0	55.5	55.8	55.8	55.0	51.7	47.9	49.7	54.0	48.1	37.9
10°	62.4	62.1	62.1	61.9	61.1	60.1	59.8	56.0	49.4	44.3	42.3
12.5°	72.8	72.8	72.6	72.3	71.6	69.8	67.5	64.4	62.4	56.3	49.9
15°	81.2	80.5	81.0	80.2	78.9	77.9	75.1	71.8	65.7	61.6	56.0
17.5°	89.4	89.4	89.6	88.4	86.8	86.1	83.0	78.7	72.8	65.7	60.3
20°	99.6	98.8	98.8	97.5	95.7	93.2	90.4	86.6	81.7	72.1	64.9
22.5°	109.2	109.5	109.5	107.5	104.7	102.4	98.5	94.0	89.4	79.4	70.3
25°	120.2	119.9	119.7	119.4	116.6	112.5	107.7	102.9	99.6	89.9	77.2
27.5°	130.4	129.9	129.6	130.9	128.3	124.3	117.1	111.3	107.7	97.8	83.5
30°	141.6	141.3	141.3	141.8	140.8	134.4	126.8	119.9	114.8	104.9	89.6
32.5°	151.5	151.0	151.3	153.3	153.0	144.9	138.0	129.6	123.2	115.3	98.5
35°	176.0	174.9	176.5	179.5	181.8	173.2	163.7	150.7	141.1	132.9	115.6
37.5°	220.0	220.3	220.8	216.7	208.0	201.7	197.1	186.6	174.7	160.9	140.6
40°	221.8	221.5	222.8	228.9	232.5	221.5	210.8	198.6	195.6	183.8	157.9
42.5°	242.4	240.9	242.2	248.0	252.9	246.2	236.8	216.2	205.0	194.5	173.2
45°	271.9	270.2	272.5	273.5	272.5	265.3	266.9	250.1	239.6	218.5	188.7
47.5°	317.0	325.2	326.4	326.7	336.9	327.2	321.1	305.1	281.4	256.2	222.3
50°	445.1	458.3	453.8	449.4	450.2	442.8	434.4	412.3	380.4	337.9	289.5
52.5°	635.3	630.2	631.0	633.8	640.9	608.1	593.8	560.4	509.0	458.1	388.3
55°	868.0	876.7	876.2	885.4	884.1	848.7	803.6	747.6	672.7	598.1	515.6
57.5°	1155.8	1140.5	1130.3	1113.5	1099.0	1050.9	1021.1	960.5	861.4	749.4	643.5
60°	1317.2	1308.8	1306.3	1283.1	1263.2	1204.2	1142.8	1077.1	999.7	867.3	747.1
62.5°	1377.8	1381.9	1378.3	1363.3	1350.1	1298.4	1195.3	1123.7	1054.4	927.1	800.6
65°	1424.4	1426.7	1418.6	1384.4	1348.3	1301.9	1190.9	1120.4	1054.7	929.4	805.7
67.5°	1367.4	1366.9	1360.5	1311.4	1250.3	1204.4	1103.6	1027.7	971.9	867.3	747.9
70°	1135.4	1136.9	1138.2	1102.1	1035.1	1001.0	898.9	833.7	785.5	695.2	609.3
72.5°	888.9	893.5	895.5	867.3	817.6	782.5	714.2	665.4	620.5	548.7	481.3
75°	668.7	673.3	672.0	654.4	619.5	609.8	576.7	535.0	497.6	441.8	384.8
77.5°	501.6	497.8	496.8	479.7	445.4	447.9	438.5	414.5	385.5	352.7	312.9
80°	332.3	329.0	322.4	328.2	325.4	317.3	301.7	289.5	278.1	258.5	236.8
82.5°	244.4	243.4	242.2	238.3	235.8	233.8	226.9	207.3	193.5	182.3	169.3
85°	228.7	225.6	226.1	219.5	211.6	204.5	199.1	190.7	180.0	162.5	143.6
87.5°	199.6	199.6	198.1	193.5	185.6	183.8	180.0	174.2	167.8	154.3	137.5
90°	166.0	165.0	165.0	164.7	163.0	161.7	154.3	149.0	146.2	132.7	121.0
92.5°	153.3	152.8	151.8	150.5	145.4	144.4	137.0	130.1	124.0	115.6	106.4
95°	124.5	125.5	123.2	123.0	120.4	118.9	113.1	109.7	105.7	98.8	90.4
97.5°	105.2	103.6	103.9	101.6	99.1	98.0	94.5	89.6	85.8	80.5	74.4
100°	96.5	96.3	95.7	94.0	90.4	88.1	84.3	79.7	75.9	71.0	66.0
102.5°	90.9	90.6	90.4	88.9	84.8	83.5	80.0	76.4	73.1	68.8	62.1
105°	85.3	85.0	84.5	82.8	80.2	78.9	75.6	73.6	70.3	66.5	60.1
107.5°	80.2	80.2	80.0	77.9	76.4	75.4	72.1	70.3	66.7	63.4	57.3
110°	77.7	77.7	77.4	75.9	72.8	71.3	68.2	66.0	62.6	59.3	54.5

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	74.9	*75.1*	75.1	75.6	68.2	65.4	62.9	61.1	58.3	55.3	51.2
115°	68.5	*68.8*	68.5	71.0	68.5	64.7	63.1	60.1	56.5	51.7	47.4
117.5°	69.0	*69.0*	69.5	70.8	69.5	66.0	62.6	58.8	55.8	50.9	47.1
120°	78.2	*77.7*	77.7	75.1	74.6	71.3	69.0	64.9	59.8	55.0	49.7
122.5°	75.1	*74.9*	75.1	71.0	70.8	70.0	69.3	68.5	61.9	59.1	52.2
125°	60.1	*59.6*	59.3	57.8	60.3	58.6	58.1	59.8	55.5	53.0	49.1
127.5°	53.7	*53.2*	53.0	52.5	54.0	50.9	50.4	50.9	47.6	44.6	42.3
130°	51.4	*50.7*	50.7	52.5	54.7	52.2	49.4	47.4	46.1	44.1	40.2
132.5°	48.6	*48.6*	48.9	51.2	55.3	52.5	47.4	43.3	42.8	43.0	41.3
135°	47.9	*47.6*	47.9	47.1	46.9	45.3	43.0	39.7	39.0	41.0	39.0
137.5°	49.1	*48.9*	48.6	46.6	44.3	43.0	42.5	40.5	38.4	37.2	35.1
140°	48.6	*48.6*	48.4	47.9	46.3	43.8	43.3	41.3	39.2	36.9	34.4
142.5°	49.4	*50.2*	50.7	51.2	50.7	47.9	45.1	41.8	39.5	38.2	35.4
145°	60.9	*60.9*	60.9	59.8	58.1	55.8	53.7	51.4	49.7	45.6	41.8
147.5°	50.4	*50.4*	50.2	50.4	50.4	49.4	49.1	48.4	48.6	46.6	42.8
150°	34.9	*35.6*	35.6	36.9	37.4	36.9	36.9	37.4	36.7	36.4	34.4
152.5°	28.3	*28.0*	27.5	28.0	28.0	28.3	28.3	27.8	27.5	27.5	26.2
155°	25.0	*25.0*	25.0	24.7	24.2	24.4	24.7	24.7	23.9	23.4	22.4
157.5°	19.9	*19.6*	19.6	20.1	20.1	20.1	20.1	20.1	20.1	20.4	20.6
160°	16.8	*16.3*	16.6	16.6	16.8	17.1	16.8	17.1	17.1	17.3	17.1
162.5°	13.8	*13.5*	13.5	13.8	14.0	14.3	14.5	14.5	14.8	15.3	15.5
165°	12.2	*12.2*	12.2	12.5	12.5	12.7	13.0	13.2	13.8	14.5	14.8
167.5°	11.5	*11.5*	11.5	11.5	11.7	12.0	12.5	13.2	13.8	14.5	14.5
170°	11.2	*11.2*	11.5	11.5	11.5	11.7	12.7	13.5	13.8	14.0	14.0
172.5°	11.7	*11.7*	11.7	11.7	11.7	12.2	13.5	13.8	13.8	13.8	14.0
175°	12.2	*12.2*	12.0	12.0	12.2	12.5	12.7	14.0	14.5	14.8	15.3
177.5°	11.5	*11.5*	11.5	11.7	11.7	12.0	12.2	12.7	12.7	13.2	14.0
180°	12.7	*12.7*	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	59.8	64.2	58.8	53.2	49.1	51.4	54.0	51.9	49.7	49.9	45.6
5°	35.9	36.9	37.4	32.6	27.0	30.0	36.7	34.4	26.5	14.8	12.7
7.5°	34.6	33.1	32.6	36.2	32.8	21.9	17.1	15.5	20.6	24.7	26.0
10°	41.0	39.2	35.4	29.0	25.7	24.2	23.7	22.7	19.6	15.3	14.5
12.5°	47.1	45.1	41.5	38.4	34.1	28.5	25.0	23.9	25.7	28.8	28.8
15°	53.2	50.4	45.8	41.8	38.4	32.3	27.8	23.7	23.2	23.9	23.9
17.5°	57.5	54.5	49.1	43.5	37.7	31.8	26.5	22.4	20.6	20.1	20.1
20°	61.9	59.1	52.7	46.6	39.5	32.6	26.5	22.2	20.1	19.4	19.1
22.5°	67.5	63.9	56.8	50.2	41.5	33.1	26.2	22.4	20.1	18.8	18.6
25°	73.8	69.8	61.6	53.7	43.5	33.6	26.5	22.7	20.4	18.8	18.6
27.5°	78.9	74.6	66.7	57.8	46.1	34.9	27.5	23.2	20.6	19.1	18.8
30°	84.8	80.2	71.3	62.1	49.1	36.9	29.5	24.7	21.6	19.6	19.6
32.5°	93.7	87.6	77.7	66.2	52.2	39.2	31.8	26.5	22.7	21.1	21.1
35°	108.2	102.1	88.9	74.1	55.5	41.5	33.6	28.3	23.9	21.9	21.9
37.5°	131.4	122.2	107.5	87.1	60.9	43.3	35.6	29.5	24.7	21.9	21.4
40°	144.9	134.7	116.1	96.8	67.5	45.6	37.2	30.6	25.2	22.2	21.9
42.5°	159.9	148.2	124.3	99.3	71.8	50.9	39.5	31.6	25.7	22.9	22.4
45°	175.7	164.5	142.8	112.8	82.0	58.3	43.3	33.6	27.2	23.9	23.4
47.5°	204.5	190.7	162.7	131.9	97.0	70.0	51.7	36.9	29.0	25.0	24.4
50°	269.1	256.4	217.5	171.4	121.0	86.8	64.7	43.8	31.8	25.7	25.0
52.5°	356.7	334.1	290.0	232.2	168.8	121.7	86.3	59.1	36.2	26.5	25.2
55°	484.1	458.9	393.7	318.3	231.2	176.7	130.6	88.9	51.4	27.2	25.0
57.5°	610.6	580.1	525.3	422.2	310.7	225.4	174.7	130.1	74.9	30.6	25.7
60°	701.3	664.1	596.4	501.9	376.9	265.1	197.3	141.8	83.3	31.3	26.5
62.5°	754.7	708.1	623.1	510.3	392.6	281.6	206.5	133.9	71.6	30.6	27.5
65°	*764.4*	*711.4*	*623.1*	*495.8*	*376.3*	*267.1*	*199.6*	*123.8*	*56.5*	*29.3*	*28.3*
67.5°	708.9	659.5	584.9	455.3	333.8	229.4	171.9	101.9	43.0	28.3	28.0
70°	581.8	544.7	483.8	372.0	270.9	186.6	136.7	78.4	34.9	27.0	26.5
72.5°	454.0	419.6	374.1	291.8	209.6	147.9	104.4	61.4	31.1	26.0	25.7
75°	357.3	331.5	293.8	230.4	157.6	112.0	79.2	46.3	28.0	25.5	25.0
77.5°	292.3	275.5	236.6	176.0	117.6	83.3	59.1	36.9	26.7	25.0	24.7
80°	227.4	213.4	188.9	131.6	84.3	62.6	46.6	32.6	26.0	24.7	24.4
82.5°	162.2	157.4	136.7	102.4	70.3	53.7	42.0	31.3	25.7	24.4	24.2
85°	135.5	128.6	113.3	88.9	64.7	51.2	40.2	30.8	25.7	24.4	24.2
87.5°	130.9	124.8	110.8	84.8	60.9	48.1	38.4	29.8	25.2	23.9	23.9
90°	115.6	109.5	98.8	76.4	56.0	44.8	35.9	28.3	24.2	22.9	22.9
92.5°	102.4	98.8	88.6	70.0	53.7	43.0	34.6	27.5	23.7	22.7	22.4
95°	86.6	83.5	75.6	63.1	50.4	41.0	33.6	26.7	23.2	22.2	22.2
97.5°	71.8	69.3	63.1	53.5	43.5	36.4	30.3	25.2	22.4	21.6	21.6
100°	63.4	61.4	56.0	48.1	40.2	34.1	29.3	25.0	22.2	21.1	21.1
102.5°	60.1	58.1	52.7	45.6	38.2	32.6	28.5	24.4	21.9	20.9	20.6
105°	57.5	55.5	50.7	43.3	36.2	31.1	27.0	23.9	21.4	20.6	20.4
107.5°	55.0	52.7	48.1	40.7	34.4	29.5	26.0	23.2	21.1	20.4	20.4
110°	52.2	50.2	45.8	38.7	33.1	28.5	25.5	22.9	21.1	20.4	20.4

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

Scaled Data Report

REPORT NUMBER: P1045776
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	49.1	47.1	43.0	36.7	31.8	27.8	25.0	22.7	21.1	20.4	20.4
115°	45.6	43.8	40.0	34.6	30.3	26.7	24.2	22.2	20.6	20.1	20.1
117.5°	44.6	42.5	38.7	33.9	29.8	26.0	23.7	21.6	20.4	19.9	19.9
120°	46.9	44.1	40.0	35.4	29.8	25.5	23.2	21.4	20.1	19.6	19.6
122.5°	49.9	47.6	43.0	34.6	28.8	25.0	22.7	21.1	19.9	19.6	19.6
125°	47.1	45.6	41.3	32.1	27.8	24.4	22.4	21.1	20.1	19.6	19.6
127.5°	41.3	39.7	36.4	30.6	26.7	23.9	22.2	21.1	20.4	19.6	19.6
130°	39.0	36.9	33.9	29.3	25.7	23.2	21.9	21.1	20.4	19.4	19.1
132.5°	40.0	38.2	33.4	27.5	24.2	22.2	21.1	20.6	19.1	18.1	17.8
135°	37.7	35.9	31.1	26.2	23.4	21.9	20.9	19.4	17.8	16.6	16.6
137.5°	33.6	31.6	28.8	25.2	23.2	22.4	21.1	19.1	17.1	16.0	16.0
140°	33.4	31.1	28.5	25.0	22.7	20.6	19.1	17.1	15.5	15.0	14.8
142.5°	33.9	32.3	28.8	24.7	21.6	19.1	17.3	15.8	14.8	14.0	14.0
145°	39.2	36.9	32.3	27.0	23.4	20.4	17.8	15.8	14.3	13.0	12.7
147.5°	40.5	38.2	34.1	29.5	25.0	21.1	17.6	15.0	13.0	12.0	11.7
150°	33.9	32.3	30.0	26.5	22.4	18.6	15.5	13.2	12.0	11.5	11.2
152.5°	25.7	25.2	23.7	21.1	18.3	15.8	13.8	12.5	11.7	11.5	11.2
155°	21.9	21.6	20.1	18.1	15.8	14.0	12.7	12.0	11.5	11.5	11.2
157.5°	20.4	19.9	18.6	16.6	14.5	13.5	12.2	11.7	11.5	11.5	11.5
160°	17.1	16.6	15.5	14.8	13.5	12.7	12.0	11.7	11.5	11.5	11.2
162.5°	15.3	14.8	14.3	13.5	13.2	13.0	12.7	12.2	12.0	11.7	11.7
165°	14.5	14.3	13.5	13.2	13.2	13.5	13.5	13.0	12.5	12.0	12.0
167.5°	14.3	14.0	13.5	13.2	13.8	14.0	14.3	13.8	13.2	12.5	12.2
170°	14.3	14.3	14.0	13.8	14.0	14.3	14.5	14.5	14.3	13.8	13.8
172.5°	14.3	14.5	14.3	14.3	14.3	14.3	14.3	14.8	14.8	14.5	14.5
175°	15.3	15.3	14.5	14.3	14.5	14.8	15.0	14.8	14.8	15.0	15.0
177.5°	14.0	14.5	15.5	15.8	16.3	16.3	15.8	15.5	14.8	14.5	14.5
180°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

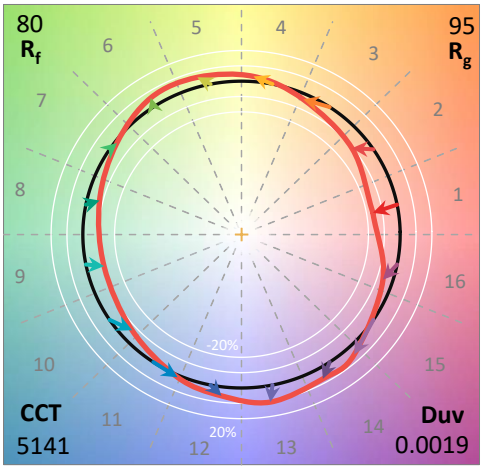
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-10
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-20-750-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):	5141	CRI (Ra):	78.0		
CIE u':	0.2087	R1:	75.1	R9:	-20.0
CIE v':	0.4845	R2:	83.7	R10:	62.4
Duv:	0.0019	R3:	90.5	R11:	77.7
CIE x:	0.3415	R4:	78.3	R12:	58.6
CIE y:	0.3524	R5:	77.1	R13:	76.9
CIE z:	0.3060	R6:	78.0	R14:	95.0
Peak Wavelength (nm):	448	R7:	82.9	R15:	67.8
Dominant Wavelength (nm):	568	R8:	58.7		
Purity:	8.219556				
Rf:	79.6				
Rg:	95.3				



Test Conditions

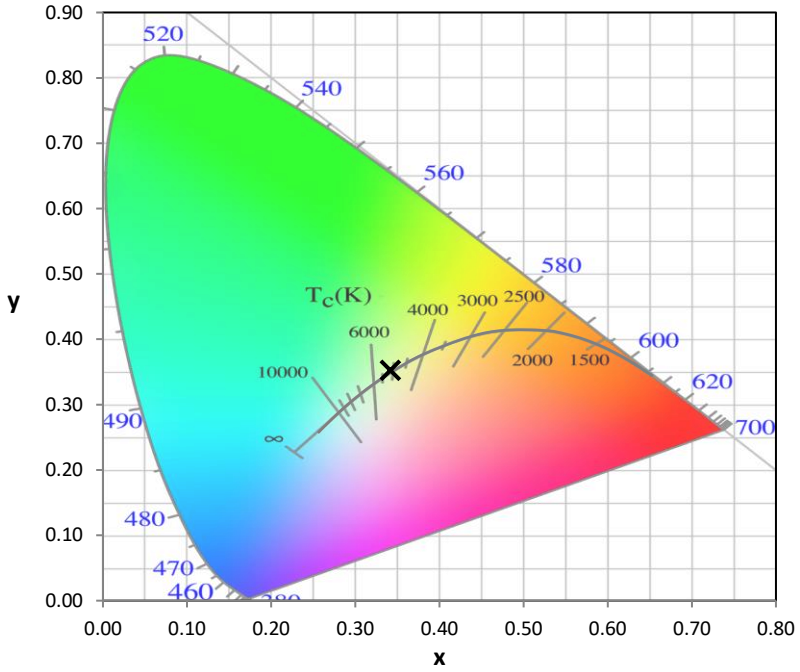
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

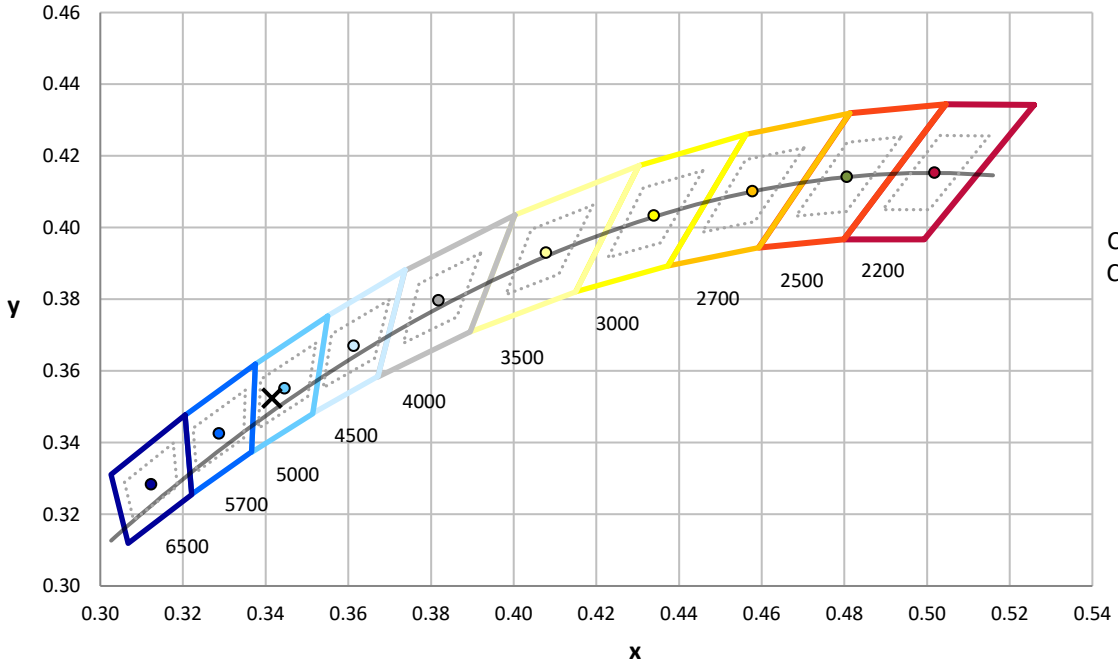
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-10

CIE 1931 Chromaticity Diagram



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

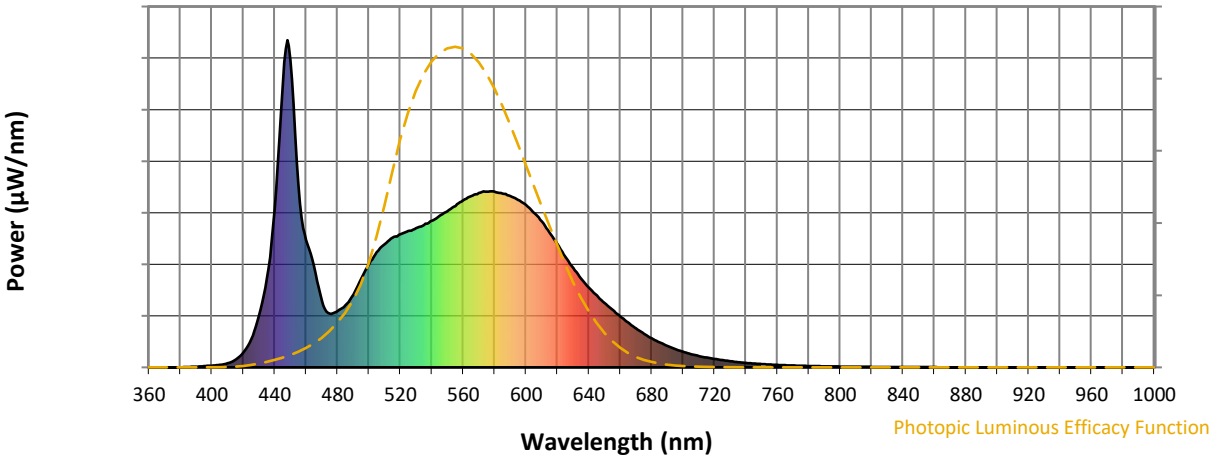


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

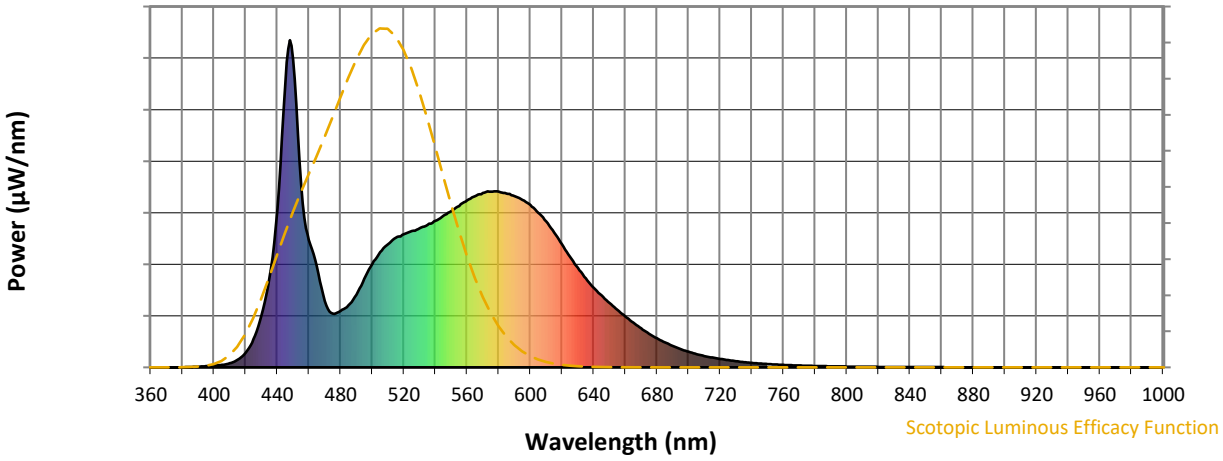


Photopic Lumens: NR

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Scotopic Flux vs. Wavelength

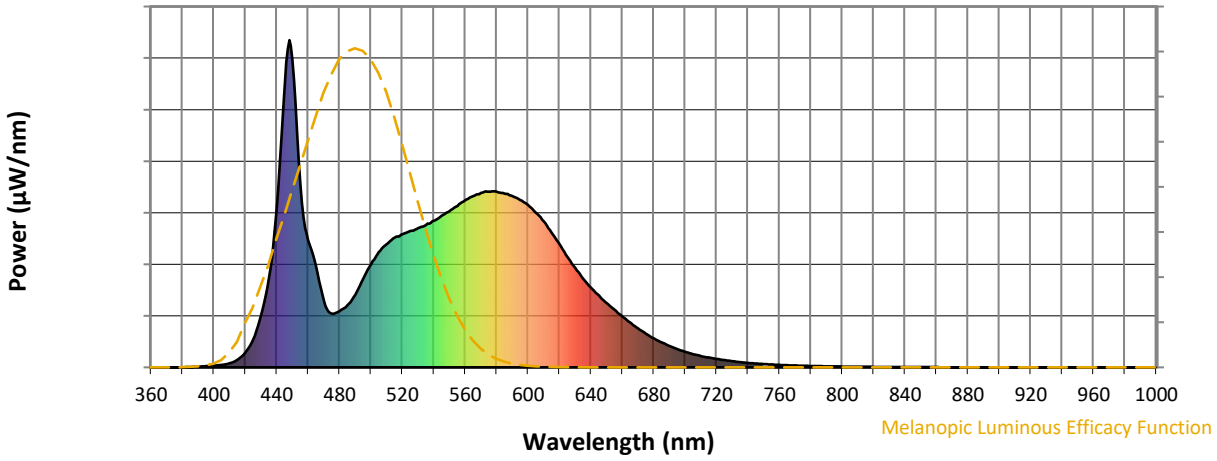


Scotopic Lumens: NR **S/P: 1.92**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.05**

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	222	NR	620	377	NR	750	10	NR	880	0	NR
365	0	NR	495	270	NR	625	338	NR	755	9	NR	885	0	NR
370	0	NR	500	315	NR	630	304	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	272	NR	765	7	NR	895	0	NR
380	0	NR	510	377	NR	640	244	NR	770	6	NR	900	0	NR
385	1	NR	515	396	NR	645	220	NR	775	5	NR	905	0	NR
390	2	NR	520	407	NR	650	197	NR	780	4	NR	910	0	NR
395	4	NR	525	416	NR	655	176	NR	785	4	NR	915	0	NR
400	5	NR	530	425	NR	660	155	NR	790	3	NR	920	0	NR
405	8	NR	535	435	NR	665	137	NR	795	3	NR	925	0	NR
410	13	NR	540	448	NR	670	119	NR	800	2	NR	930	0	NR
415	23	NR	545	464	NR	675	103	NR	805	2	NR	935	0	NR
420	45	NR	550	477	NR	680	89	NR	810	2	NR	940	0	NR
425	86	NR	555	493	NR	685	77	NR	815	2	NR	945	0	NR
430	158	NR	560	511	NR	690	65	NR	820	1	NR	950	0	NR
435	274	NR	565	524	NR	695	56	NR	825	1	NR	955	0	NR
440	483	NR	570	533	NR	700	48	NR	830	1	NR	960	0	NR
445	857	NR	575	537	NR	705	41	NR	835	1	NR	965	0	NR
450	941	NR	580	537	NR	710	35	NR	840	1	NR	970	0	NR
455	561	NR	585	532	NR	715	30	NR	845	1	NR	975	0	NR
460	389	NR	590	524	NR	720	26	NR	850	1	NR	980	0	NR
465	309	NR	595	512	NR	725	22	NR	855	1	NR	985	0	NR
470	203	NR	600	495	NR	730	19	NR	860	1	NR	990	0	NR
475	165	NR	605	473	NR	735	16	NR	865	0	NR	995	0	NR
480	173	NR	610	446	NR	740	14	NR	870	0	NR	1000	0	NR
485	190	NR	615	412	NR	745	12	NR	875	0	NR			

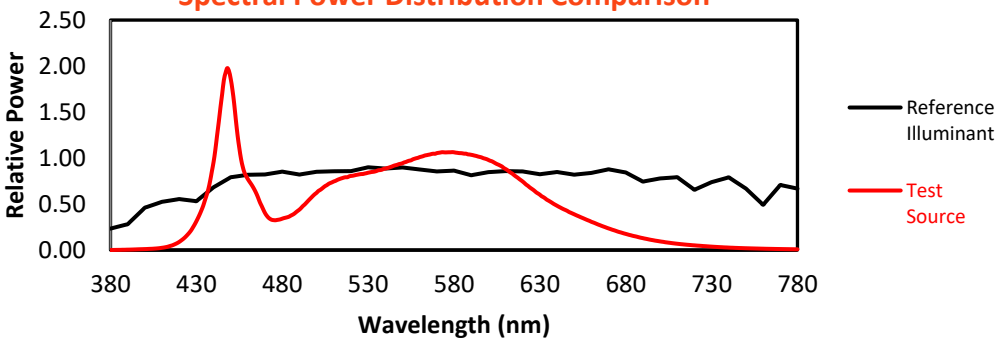
REPORT NUMBER: SP1-2501-332-10

TM-30-18

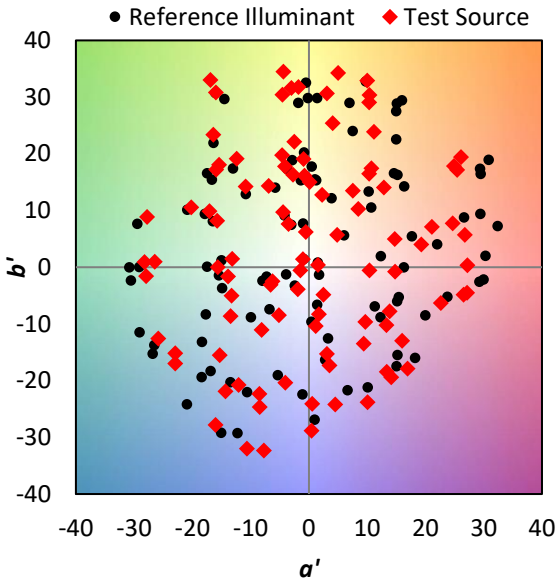
Summary

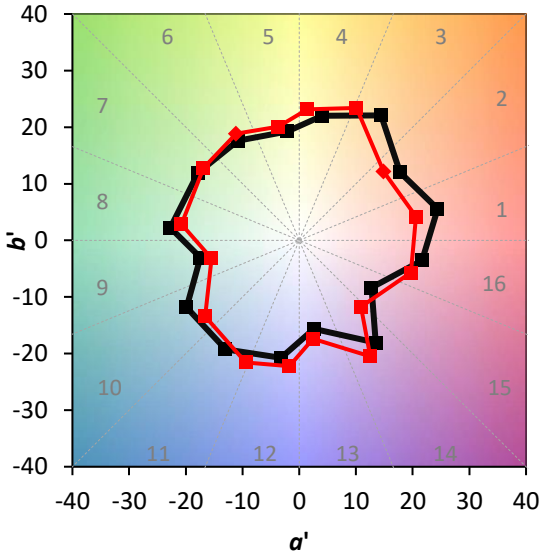
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

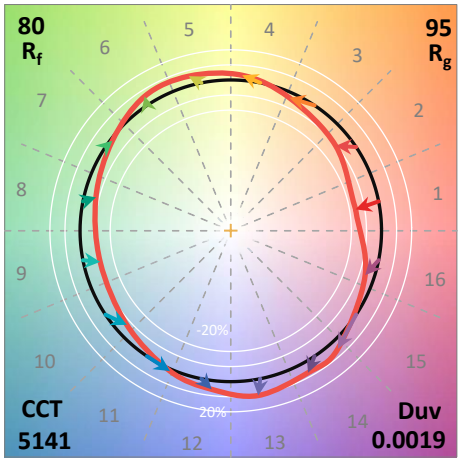
Spectral Power Distribution Comparison

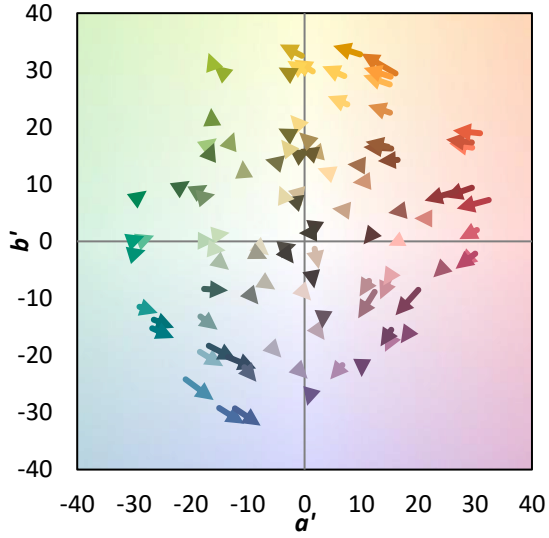


Color Vector Graphics







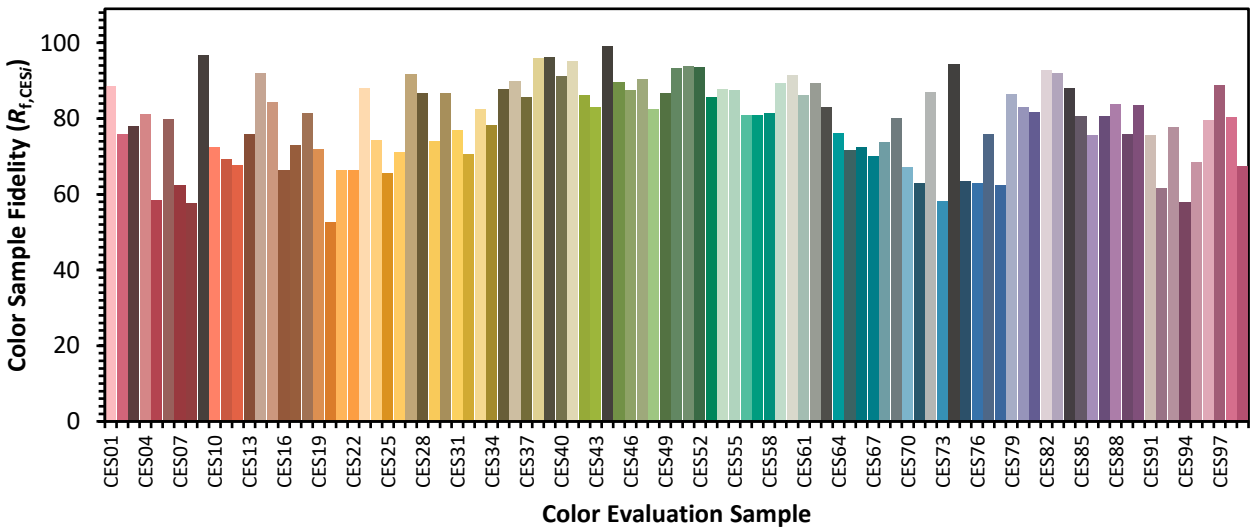


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

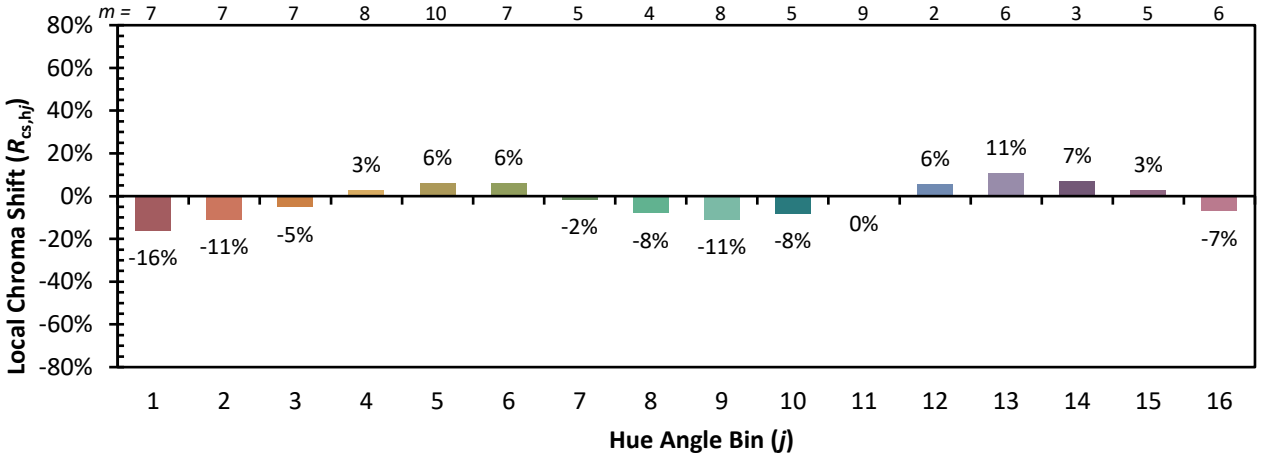
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 81	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 82	CES83 = 92
CES09 = 29	CES34 = 78	CES59 = 89	CES84 = 88
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 90	CES61 = 86	CES86 = 76
CES12 = 61	CES37 = 86	CES62 = 89	CES87 = 81
CES13 = 42	CES38 = 96	CES63 = 83	CES88 = 84
CES14 = 74	CES39 = 96	CES64 = 76	CES89 = 76
CES15 = 70	CES40 = 91	CES65 = 72	CES90 = 83
CES16 = 46	CES41 = 95	CES66 = 72	CES91 = 76
CES17 = 49	CES42 = 86	CES67 = 70	CES92 = 62
CES18 = 55	CES43 = 83	CES68 = 74	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 58
CES20 = 64	CES45 = 90	CES70 = 67	CES95 = 68
CES21 = 85	CES46 = 88	CES71 = 63	CES96 = 79
CES22 = 77	CES47 = 90	CES72 = 87	CES97 = 89
CES23 = 91	CES48 = 83	CES73 = 58	CES98 = 80
CES24 = 90	CES49 = 87	CES74 = 94	CES99 = 67
CES25 = 71	CES50 = 93	CES75 = 64	

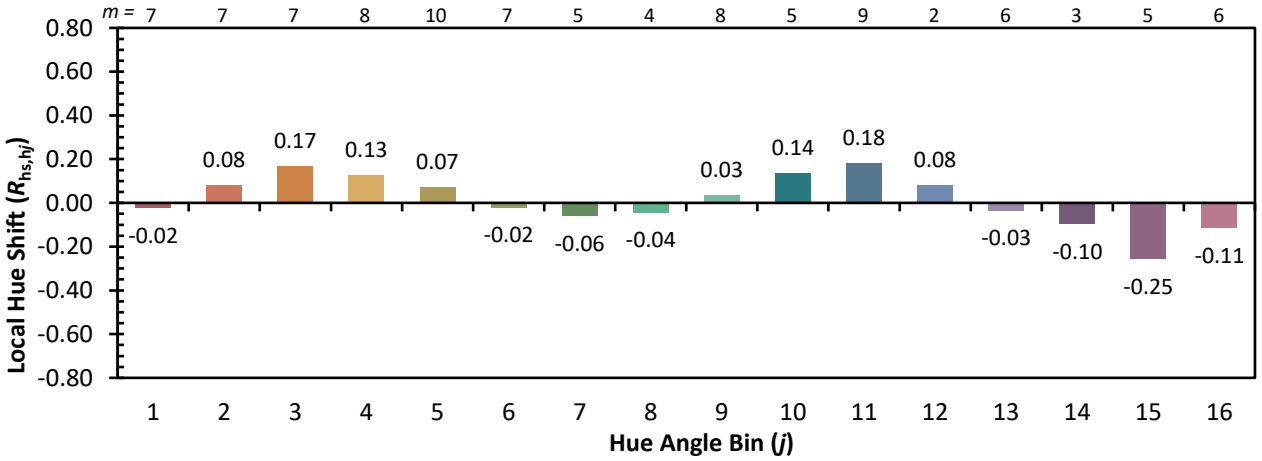


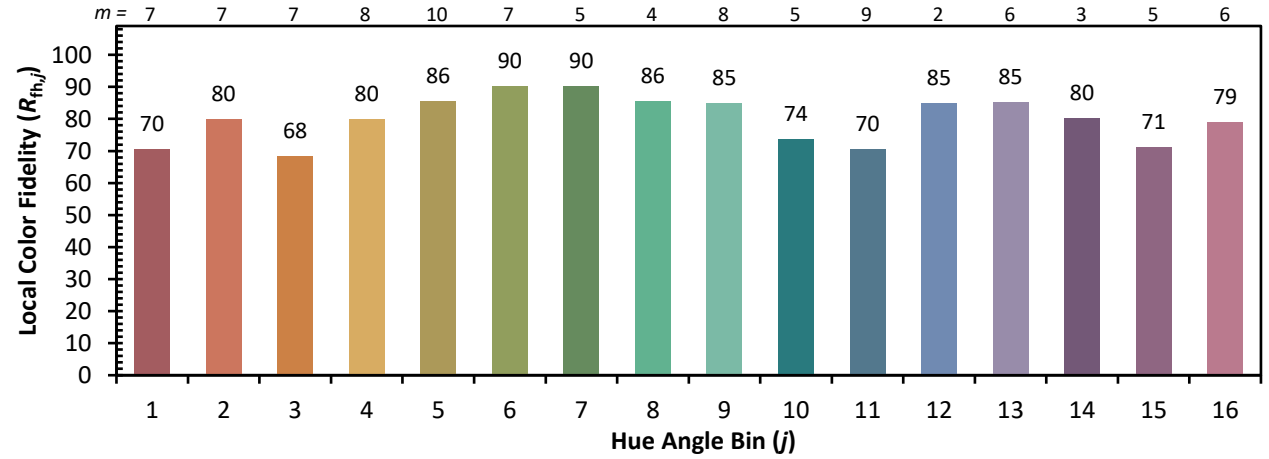
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Color Rendition by Hue-Angle Bin



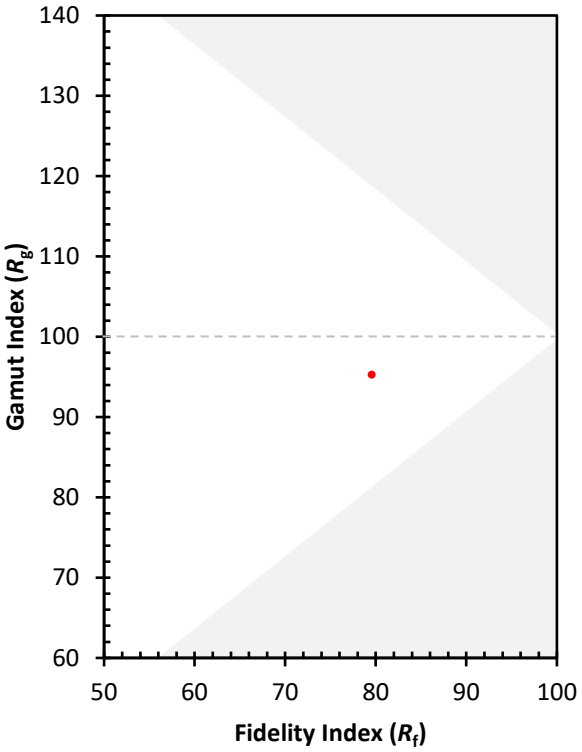


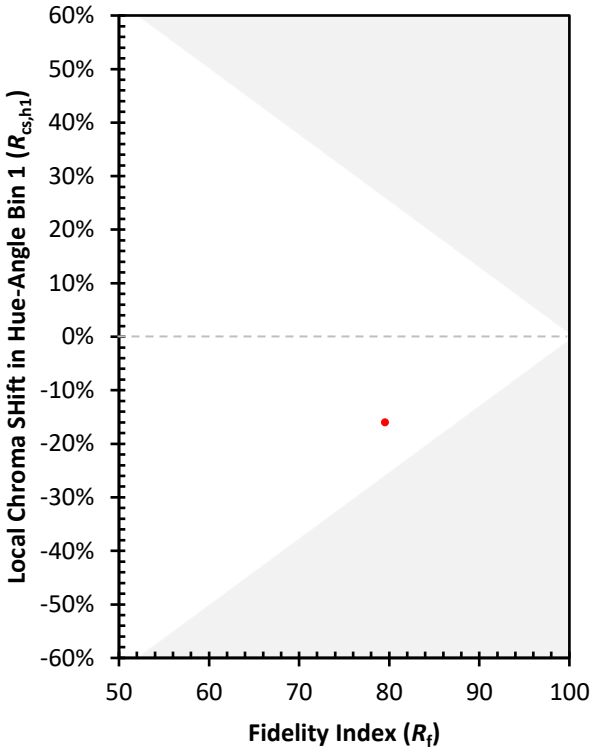


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Measure Comparisons





(END OF REPORT)