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: P1046586

Luminaire Tested: **FFX-CLB-20-750-U-FR-T3-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:	P1046586
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-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3017.6 lumens
Efficiency:	N/A
Efficacy:	152.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

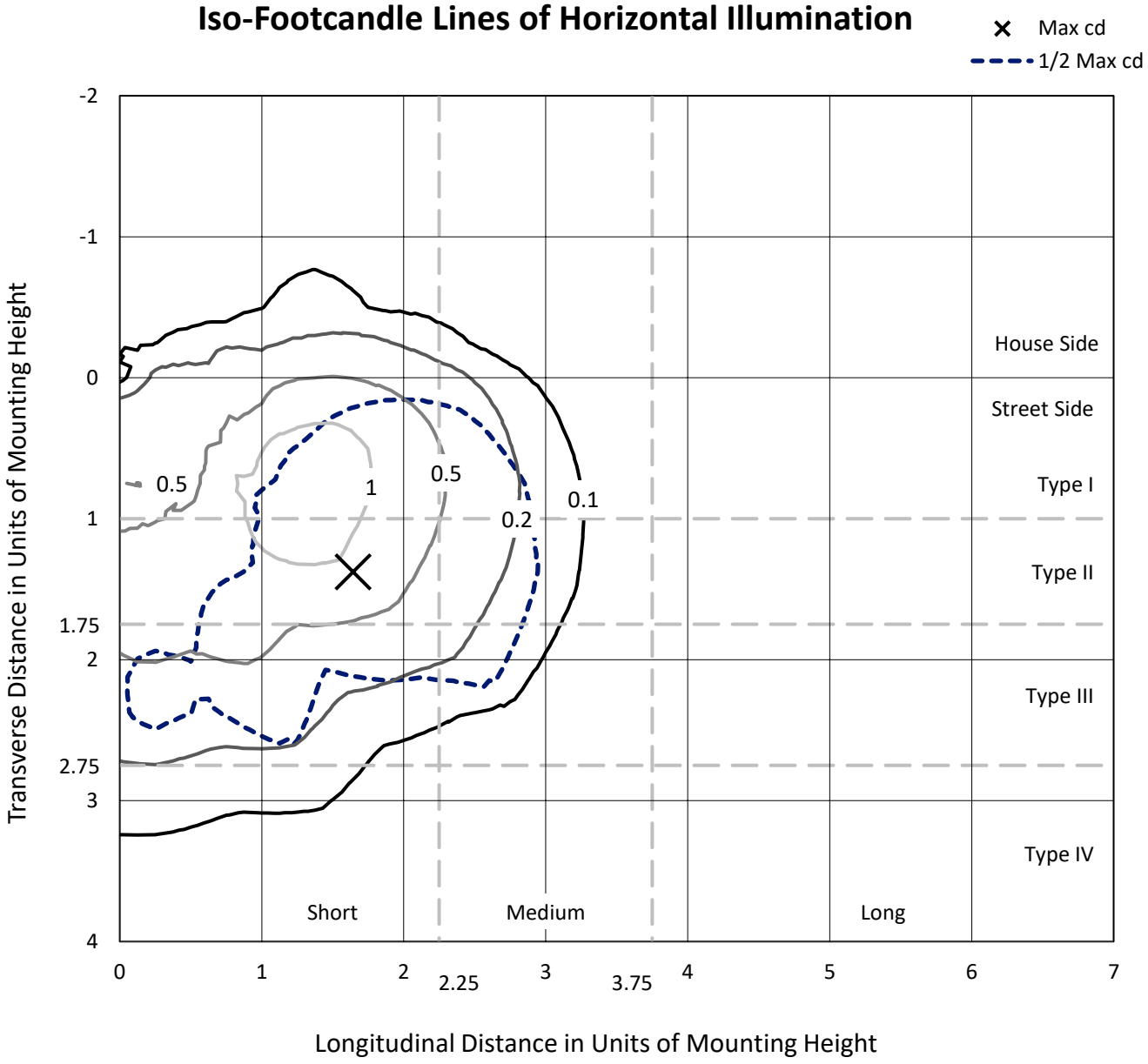


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Iso-Footcandle Lines of Horizontal Illumination



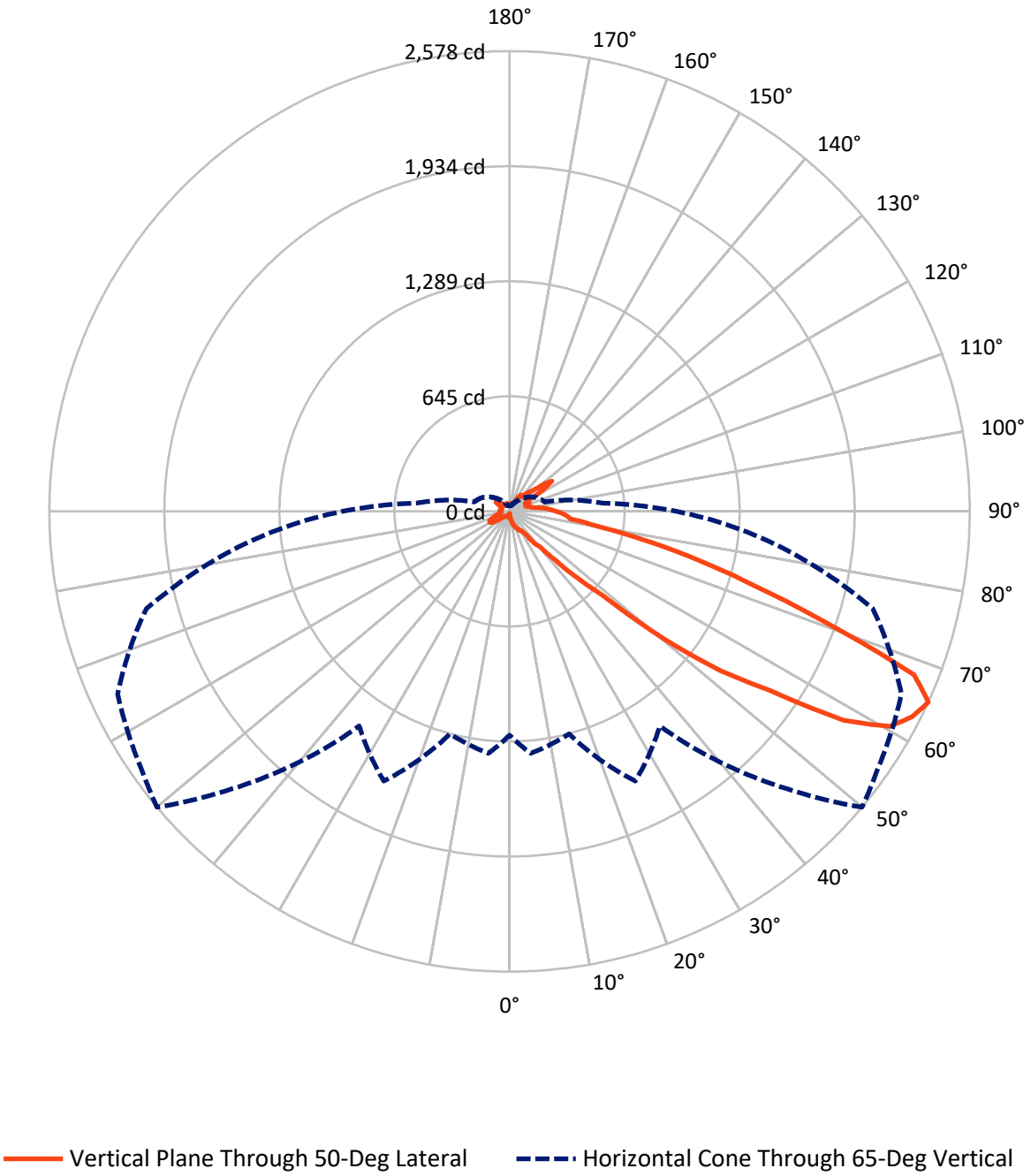
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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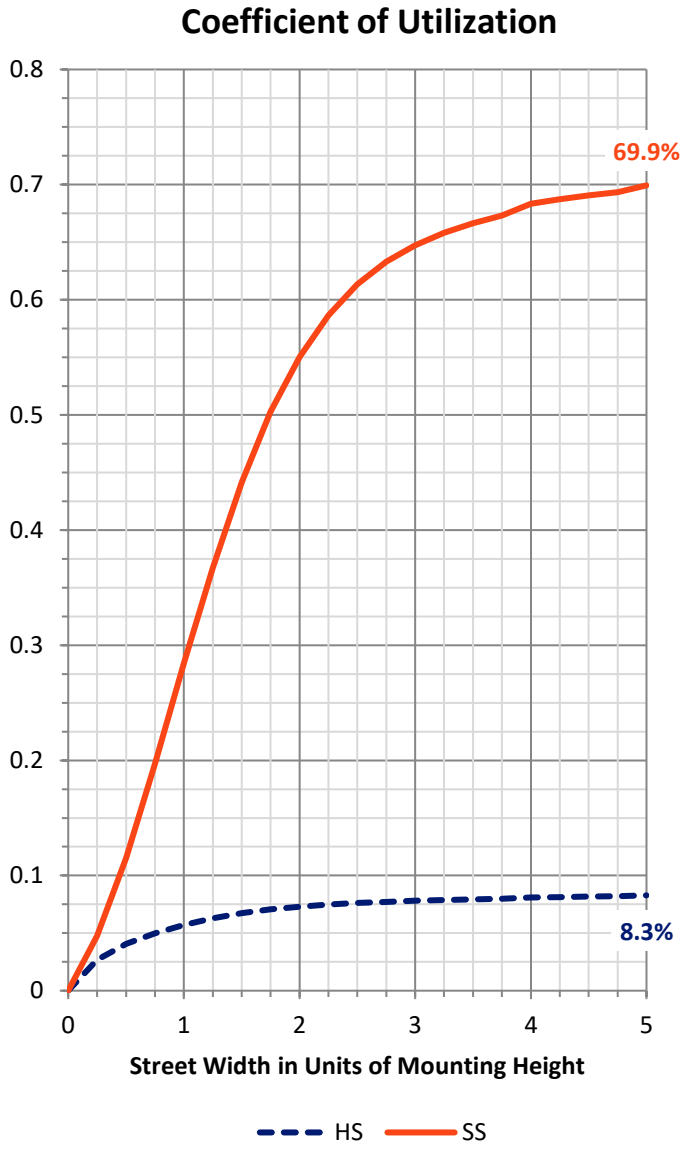
REPORT NUMBER: P1046586
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.7	174.3	438.9
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	2182.9	395.8	2578.7
	% Fixture	72.3	13.1	85.5
Total	Lumens	2447.6	570.1	3017.6
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	15.7	0.5
20°-30°	33.6	1.1
30°-40°	67.1	2.2
40°-50°	175.9	5.8
50°-60°	582.8	19.3
60°-70°	919.1	30.5
70°-80°	479.9	15.9
80°-90°	170.4	5.6
90°-100°	110.0	3.6
100°-110°	74.2	2.5
110°-120°	84.7	2.8
120°-130°	140.3	4.6
130°-140°	80.1	2.7
140°-150°	43.9	1.5
150°-160°	21.5	0.7
160°-170°	11.4	0.4
170°-180°	4.1	0.1
0°-90°	2447.6	81.1
0°-180°	3017.6	100.0



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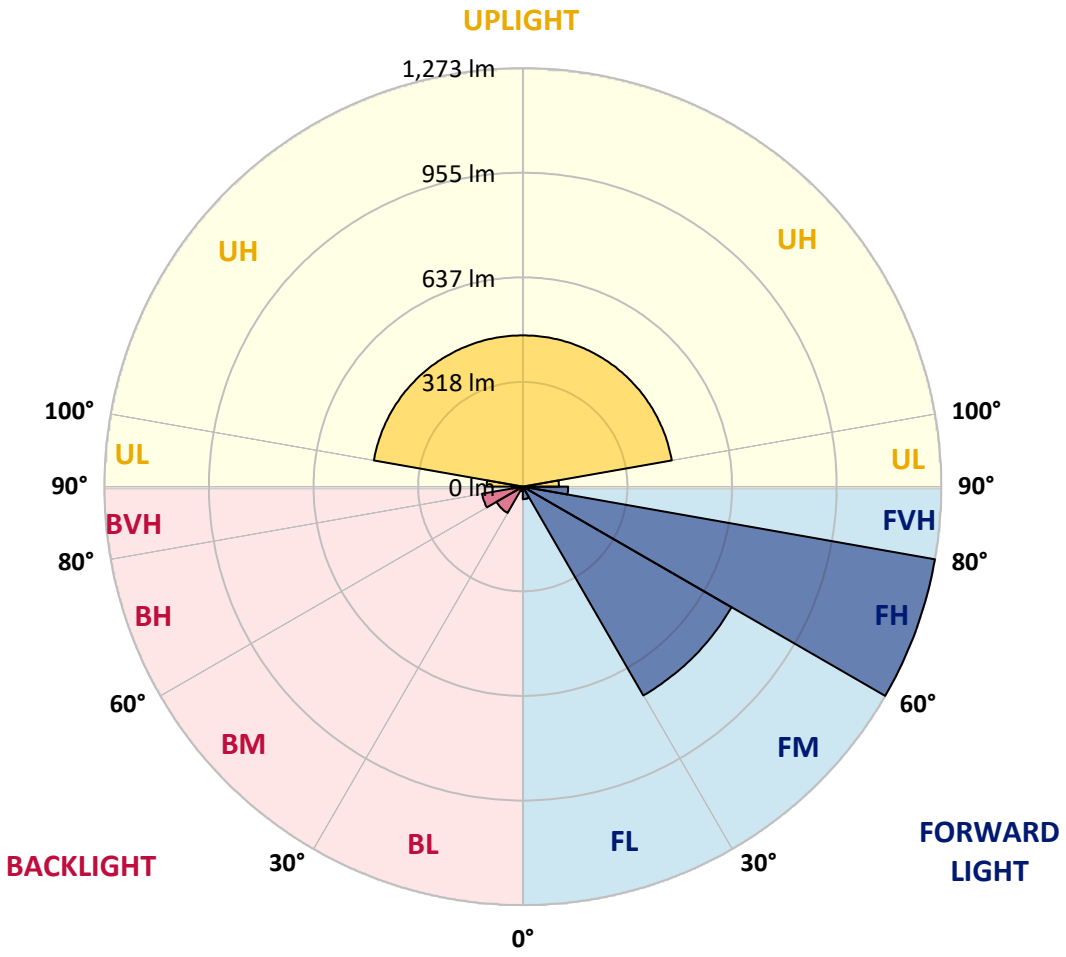
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	38.4	1.3			
FM	(30°-60°)	733.3	24.3			
FH	(60°-80°)	1273.2	42.2			G1/1800
FVH	(80°-90°)	138.0	4.6			G2/225
BL	(0°-30°)	13.9	0.5	B0/110		
BM	(30°-60°)	92.5	3.1	B0/220		
BH	(60°-80°)	125.9	4.2	B1/500		G1/500
BVH	(80°-90°)	32.4	1.1			G1/100
UL	(90°-100°)	110.0	3.6		U3/500	
UH	(100°-180°)	460.1	15.2		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	16.8	16.8	16.8	16.8	16.8	16.8	*16.8*	16.8	16.8	16.8	16.8
2.5°	20.5	20.3	20.7	21.3	21.1	20.5	*20.0*	19.8	19.2	19.0	18.3
5°	30.3	30.1	29.6	30.1	30.3	29.4	*29.0*	27.9	26.9	25.0	23.9
7.5°	42.4	42.7	43.1	42.0	41.6	39.7	*39.2*	38.2	36.5	34.1	33.5
10°	57.6	57.8	58.9	57.2	54.4	52.0	*51.6*	52.0	54.0	48.0	44.4
12.5°	72.5	71.9	75.1	74.2	70.6	67.2	*65.5*	65.7	64.8	60.4	54.4
15°	86.4	86.4	88.7	89.6	85.7	77.8	*75.3*	74.6	74.2	69.5	61.2
17.5°	95.1	95.5	95.8	95.8	94.5	87.9	*84.9*	83.6	79.8	75.5	67.8
20°	102.4	102.6	100.7	100.9	102.8	97.0	*94.0*	91.5	87.4	83.0	73.4
22.5°	112.4	112.0	109.0	107.7	112.0	107.1	*103.9*	101.1	96.2	91.1	82.3
25°	123.5	123.1	120.1	116.9	119.9	115.4	*112.0*	109.4	104.9	101.5	83.6
27.5°	134.1	133.7	128.6	128.2	125.6	123.5	*119.9*	119.2	115.8	105.8	83.0
30°	142.0	141.6	136.1	136.3	129.7	131.4	*126.0*	125.6	121.6	108.3	84.5
32.5°	145.0	145.4	143.1	142.0	133.1	139.9	*135.0*	133.3	132.2	115.2	91.9
35°	155.9	159.3	162.9	164.2	156.1	168.9	*158.9*	157.6	160.2	140.1	114.7
37.5°	239.7	238.0	224.6	205.6	201.3	229.5	*228.0*	229.0	227.3	199.4	151.8
40°	239.9	241.0	232.5	220.9	207.5	236.3	*258.3*	238.9	267.2	217.3	166.6
42.5°	252.1	248.7	268.9	273.4	258.5	301.3	*366.2*	293.0	354.2	264.9	226.7
45°	298.4	298.4	302.0	304.1	298.8	406.5	*531.9*	408.8	473.4	331.4	272.1
47.5°	346.1	342.1	362.8	397.5	418.2	523.1	*702.1*	540.2	642.1	445.5	377.7
50°	482.6	488.4	528.0	568.6	599.5	778.8	*1130.3*	925.6	1048.8	685.0	576.7
52.5°	588.6	622.3	652.8	766.5	780.3	1064.2	*1485.8*	1241.8	1343.8	962.5	714.0
55°	698.0	764.8	782.9	983.6	999.4	1367.5	*1768.8*	1573.0	1601.8	1268.9	847.7
57.5°	898.5	991.7	997.9	1212.0	1211.3	1761.8	*2208.4*	2048.4	2026.7	1615.9	1052.7
60°	1071.0	1177.2	1139.3	1435.9	1369.4	2052.5	*2446.6*	2285.3	2237.8	1894.2	1196.8
62.5°	1175.7	1279.4	1232.7	1583.5	1470.2	2191.5	*2532.7*	2438.7	2357.6	2062.7	1314.4
65°	*1253.8*	*1360.6*	*1290.7*	*1667.3*	*1468.3*	*2198.3*	*2578.4*	*2517.6*	*2422.7*	*2106.6*	*1340.2*
67.5°	1243.5	1347.8	1264.0	1634.0	1365.7	2001.9	*2444.2*	2368.5	2251.2	1937.1	1253.4
70°	1078.3	1141.2	1049.1	1391.8	1091.9	1548.5	*1904.0*	1860.3	1747.5	1482.8	969.5
72.5°	907.7	923.2	836.9	1089.4	851.4	1128.2	*1446.8*	1400.1	1326.1	1100.4	732.8
75°	701.0	701.0	651.5	816.8	632.5	800.6	*1095.1*	1083.2	1037.5	825.8	556.4
77.5°	473.4	448.7	441.2	551.7	437.0	528.3	*762.4*	790.6	778.6	591.2	405.6
80°	276.0	281.9	271.5	340.6	287.5	345.5	*489.2*	526.3	525.3	392.6	266.2
82.5°	215.2	219.4	208.6	245.3	219.4	271.9	*342.9*	340.6	348.7	284.5	200.3
85°	212.0	215.2	203.9	226.7	210.7	258.3	*322.2*	321.6	319.9	263.4	188.1
87.5°	192.8	197.1	187.2	205.6	191.1	235.9	*292.8*	296.2	291.3	247.0	180.8
90°	161.2	165.7	161.4	182.8	167.8	203.5	*254.6*	257.2	252.9	220.1	163.1
92.5°	145.0	148.0	142.9	161.4	145.7	178.7	*225.0*	226.5	219.9	193.6	141.2
95°	133.7	136.7	130.3	144.0	128.6	157.6	*191.5*	196.4	186.6	163.4	120.3
97.5°	111.1	109.2	106.6	118.4	106.4	124.1	*146.5*	150.1	144.0	126.7	95.8
100°	96.2	96.8	95.8	104.3	93.4	106.6	*124.1*	125.6	123.1	110.5	86.6
102.5°	93.2	93.4	95.3	101.1	88.5	98.1	*113.0*	113.9	113.2	101.3	80.0
105°	92.3	92.1	93.2	99.4	86.4	89.8	*104.1*	104.5	102.4	94.3	74.9
107.5°	87.2	87.9	87.7	93.2	84.9	85.3	*94.5*	94.3	93.8	86.4	70.8
110°	100.0	99.0	94.5	94.7	86.6	88.7	*97.9*	96.8	94.7	90.2	77.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	142.2	139.3	134.1	117.3	108.8	114.7	*120.9*	122.0	119.6	115.6	97.7
115°	157.8	157.4	151.6	140.5	112.4	114.5	*118.6*	120.3	123.1	115.2	100.0
117.5°	129.5	136.5	127.5	129.0	113.0	99.4	*98.7*	95.3	96.8	96.0	92.6
120°	163.4	164.6	146.5	143.1	132.0	136.5	*136.7*	137.1	132.7	111.1	97.9
122.5°	229.7	229.7	234.8	244.2	238.4	230.3	*225.6*	220.9	214.8	194.3	166.1
125°	291.3	290.9	288.1	292.8	287.1	290.3	*291.7*	293.0	286.4	261.5	223.1
127.5°	234.8	240.8	250.8	276.2	260.2	255.7	*251.4*	254.4	249.5	244.8	220.9
130°	181.9	182.6	199.0	215.2	213.9	199.6	*194.7*	186.2	188.1	187.5	173.2
132.5°	155.5	156.3	165.9	175.1	182.8	172.3	*162.7*	158.2	159.7	158.7	149.5
135°	135.8	135.8	132.4	131.4	137.8	147.4	*146.3*	140.5	137.8	134.6	120.9
137.5°	117.5	117.1	110.9	107.5	112.6	125.0	*125.8*	125.8	123.1	115.4	105.6
140°	96.8	96.2	93.0	93.6	94.9	103.2	*103.9*	105.8	105.4	99.2	87.2
142.5°	73.4	73.6	78.3	83.6	86.6	104.5	*101.7*	99.6	106.4	106.0	76.1
145°	97.9	95.8	95.8	93.4	100.4	118.1	*112.6*	114.3	123.3	114.9	82.3
147.5°	89.8	90.9	91.1	90.6	99.6	100.7	*96.6*	96.8	100.0	100.0	84.2
150°	69.5	67.8	68.2	69.1	78.5	77.8	*74.2*	74.0	76.6	75.9	68.9
152.5°	55.0	54.8	54.6	55.4	63.1	59.9	*58.4*	57.8	57.4	56.7	55.0
155°	51.8	51.6	51.2	52.2	56.7	55.2	*54.4*	54.4	53.3	52.2	51.2
157.5°	46.1	45.9	46.1	48.2	50.8	49.1	*48.8*	48.6	48.2	46.9	46.5
160°	43.1	42.9	43.3	45.0	46.1	44.6	*44.1*	44.4	44.1	43.5	44.4
162.5°	40.7	40.7	40.7	41.8	42.2	41.2	*40.9*	41.2	41.4	41.4	42.4
165°	39.5	39.5	39.7	40.3	40.3	39.9	*39.5*	39.5	40.5	40.9	41.8
167.5°	40.3	40.3	40.5	40.7	40.7	40.3	*40.3*	40.5	41.2	41.6	41.6
170°	41.6	41.6	41.6	41.8	41.6	40.9	*40.9*	40.9	41.2	41.2	41.4
172.5°	43.1	43.1	43.1	42.9	42.4	42.2	*41.8*	41.8	42.0	41.8	42.0
175°	45.2	45.0	45.0	44.8	44.6	44.4	*44.1*	43.9	43.9	43.3	43.3
177.5°	46.3	46.1	46.3	46.3	46.1	45.6	*45.2*	45.2	45.0	44.6	44.4
180°	44.6	44.6	44.6	44.6	44.6	44.6	*44.6*	44.6	44.6	44.6	44.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	17.9	17.3	15.6	14.1	13.0	12.6	12.6	11.9	11.1	10.4	10.2
5°	23.7	23.2	22.6	21.8	19.8	17.3	15.1	14.3	13.9	13.6	13.4
7.5°	33.5	33.9	34.8	34.5	30.9	24.1	20.0	19.8	22.2	24.7	25.6
10°	43.3	42.9	45.6	48.0	39.0	27.3	20.7	20.0	23.2	27.7	28.4
12.5°	51.8	49.7	48.2	45.6	37.3	27.3	22.2	20.9	22.4	25.8	25.8
15°	58.2	55.4	49.3	43.3	35.8	28.2	23.0	22.2	22.2	21.1	21.3
17.5°	63.1	58.0	49.1	41.4	33.3	26.9	22.8	20.5	19.2	17.5	17.1
20°	68.9	65.3	53.3	42.7	32.8	26.0	22.2	19.4	17.9	17.3	17.1
22.5°	75.1	67.6	56.1	43.1	32.8	26.4	22.0	19.0	17.7	17.3	17.3
25°	75.7	69.3	57.6	44.8	33.9	27.3	22.4	19.2	17.9	17.5	17.3
27.5°	74.9	70.4	60.1	46.7	35.0	28.2	23.2	19.6	17.9	17.3	17.1
30°	78.1	74.4	63.1	48.0	36.0	29.2	24.1	20.5	18.3	17.1	16.8
32.5°	86.2	81.0	67.2	48.8	36.5	29.4	25.0	21.3	18.8	17.3	17.1
35°	107.5	102.8	82.7	51.8	36.5	29.9	25.6	22.0	19.2	17.5	17.3
37.5°	138.4	129.7	101.7	61.8	36.9	30.7	26.2	22.8	19.8	17.9	17.5
40°	146.7	123.9	86.4	55.4	37.7	31.6	27.3	23.7	20.7	18.6	18.3
42.5°	190.4	158.5	106.6	58.6	40.3	32.2	27.9	24.5	21.3	19.2	18.8
45°	203.9	158.7	108.3	67.8	47.3	35.0	29.0	25.2	21.8	19.6	19.4
47.5°	267.2	196.8	110.5	72.7	53.1	40.3	31.6	26.0	22.2	20.0	19.8
50°	391.8	277.7	137.1	90.9	65.7	49.3	37.1	27.7	22.6	20.7	20.3
52.5°	488.8	333.1	148.6	111.1	87.2	65.0	46.7	32.2	23.9	21.1	20.7
55°	595.9	409.3	168.9	133.9	105.8	81.5	59.3	38.8	26.4	21.8	21.3
57.5°	743.2	488.6	198.3	158.0	128.4	95.1	67.6	45.4	29.9	23.2	22.4
60°	832.8	522.3	203.0	171.0	141.8	106.0	71.2	48.2	33.5	25.4	24.1
62.5°	918.5	545.5	204.3	176.2	145.0	108.1	71.7	46.9	34.8	28.4	26.7
65°	*936.0*	*522.5*	*204.7*	*177.2*	*141.2*	*102.6*	*69.3*	*45.6*	*33.3*	*30.9*	*31.1*
67.5°	876.9	464.1	189.8	169.5	130.9	91.5	62.3	43.7	32.8	30.5	31.1
70°	689.5	363.6	173.4	157.2	111.1	77.8	55.4	41.2	32.8	29.4	28.8
72.5°	535.3	310.7	177.6	149.3	95.1	69.5	50.1	38.4	31.8	29.2	28.8
75°	415.4	259.3	175.1	131.4	77.6	59.7	45.0	35.2	30.3	28.8	28.6
77.5°	303.7	204.5	144.8	100.7	64.4	50.8	39.7	33.1	29.4	28.2	27.9
80°	195.4	143.1	100.9	80.4	56.5	46.3	37.1	31.6	29.0	28.2	27.9
82.5°	164.6	129.9	90.9	76.1	54.6	47.1	38.8	33.1	30.5	29.6	29.4
85°	158.5	133.7	93.4	79.3	52.2	45.0	38.0	33.1	30.7	29.6	29.4
87.5°	150.6	120.9	92.1	72.9	50.3	43.3	37.3	33.9	31.6	30.9	30.7
90°	136.3	106.6	84.5	67.8	53.1	46.1	41.2	37.5	35.2	33.7	33.3
92.5°	114.9	85.7	72.5	67.0	58.2	52.2	47.3	44.1	41.6	40.1	39.5
95°	96.8	74.9	63.1	59.3	51.4	46.9	42.2	39.9	38.0	36.7	36.7
97.5°	78.9	64.2	58.6	55.7	49.3	44.4	40.5	38.2	37.5	37.1	36.9
100°	74.2	62.9	59.1	56.5	51.4	46.9	43.9	41.8	41.6	41.4	41.4
102.5°	68.9	59.5	55.2	52.7	47.6	43.7	41.6	39.9	39.2	38.6	38.0
105°	65.0	56.3	53.1	49.7	45.6	41.8	39.7	37.1	36.7	36.5	36.5
107.5°	63.1	55.9	54.2	48.8	45.0	43.3	40.7	37.5	36.9	36.0	36.0
110°	69.7	62.1	57.2	50.5	46.5	45.0	44.4	41.6	39.5	36.9	36.7

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

Scaled Data Report

REPORT NUMBER: P1046586
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	86.4	75.9	70.2	60.4	52.0	48.4	45.6	42.7	41.4	39.7	39.0
115°	93.0	82.3	75.1	65.3	55.7	49.3	45.2	44.8	43.5	42.4	43.5
117.5°	95.3	74.9	61.8	59.5	52.2	47.1	45.2	44.6	45.0	45.0	43.1
120°	102.8	80.8	75.9	72.9	59.3	51.0	46.7	48.8	48.4	45.9	45.9
122.5°	153.3	136.9	120.7	100.7	83.6	73.8	59.3	49.7	47.8	46.1	45.0
125°	202.0	187.2	161.9	135.2	105.8	78.3	58.9	52.0	48.4	46.3	46.7
127.5°	205.8	190.2	161.2	128.6	94.5	73.1	59.3	53.3	49.3	46.9	46.5
130°	160.8	149.7	128.0	104.1	80.2	65.5	54.8	48.8	45.2	43.1	42.7
132.5°	142.2	132.9	110.3	89.4	73.1	60.8	51.6	45.0	42.4	40.9	40.7
135°	113.7	105.8	90.6	79.3	68.0	57.8	48.6	42.4	40.1	39.9	39.5
137.5°	99.6	93.2	81.5	72.1	62.7	52.9	45.2	40.1	39.0	39.2	38.6
140°	81.3	78.5	71.9	63.8	53.7	43.5	38.2	36.5	38.2	39.0	39.0
142.5°	69.7	66.1	58.6	49.3	42.9	38.2	37.5	36.9	37.7	38.2	38.2
145°	64.2	59.9	53.7	50.3	47.3	43.3	39.9	36.9	36.0	36.3	36.3
147.5°	72.5	67.6	63.6	57.2	49.9	43.1	38.0	34.5	34.5	35.4	35.6
150°	60.1	55.9	53.1	49.5	43.9	38.4	34.8	33.1	33.7	35.4	35.6
152.5°	50.3	45.2	43.5	41.4	38.4	35.4	33.7	32.8	33.9	35.2	35.2
155°	49.1	44.6	42.4	40.3	37.5	35.0	33.5	33.1	34.1	35.0	35.2
157.5°	46.1	43.5	40.7	39.0	36.9	35.0	33.9	33.5	34.3	35.0	35.2
160°	44.4	42.9	39.7	38.2	36.3	35.0	34.8	34.8	35.2	35.4	35.4
162.5°	42.4	41.6	39.7	38.4	37.1	36.5	36.9	37.1	37.1	36.9	36.9
165°	41.8	41.4	39.7	38.6	38.0	38.2	39.0	39.2	38.6	38.2	38.2
167.5°	41.6	41.6	40.3	39.5	39.2	39.7	40.5	40.5	39.9	39.0	38.8
170°	41.6	41.8	41.4	41.4	40.9	41.2	41.4	41.4	40.9	40.5	40.3
172.5°	42.2	42.2	42.2	42.2	42.0	42.2	42.4	42.4	42.4	42.2	42.2
175°	43.3	43.3	43.3	43.1	42.9	42.9	43.1	43.3	43.5	43.5	43.5
177.5°	44.4	44.1	43.9	44.1	43.9	43.9	44.4	44.6	44.8	44.8	44.8
180°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6

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

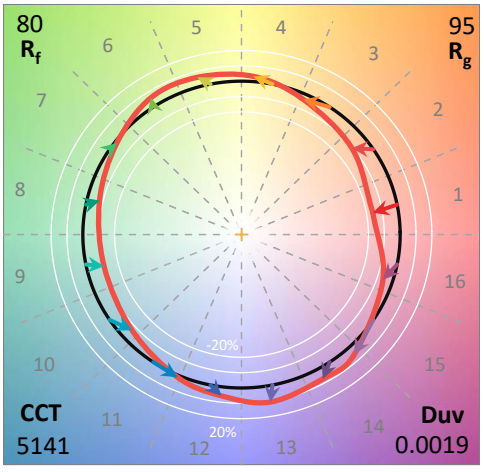
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

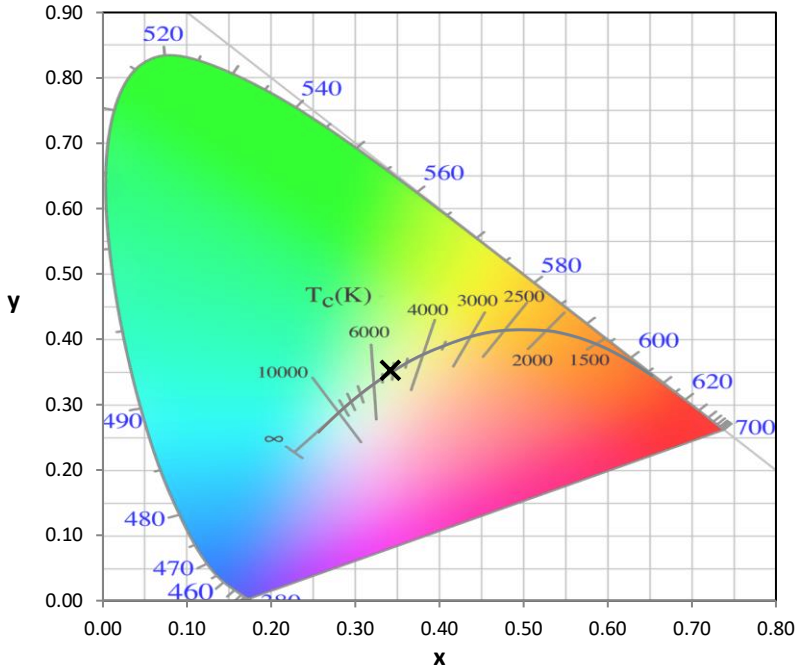
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

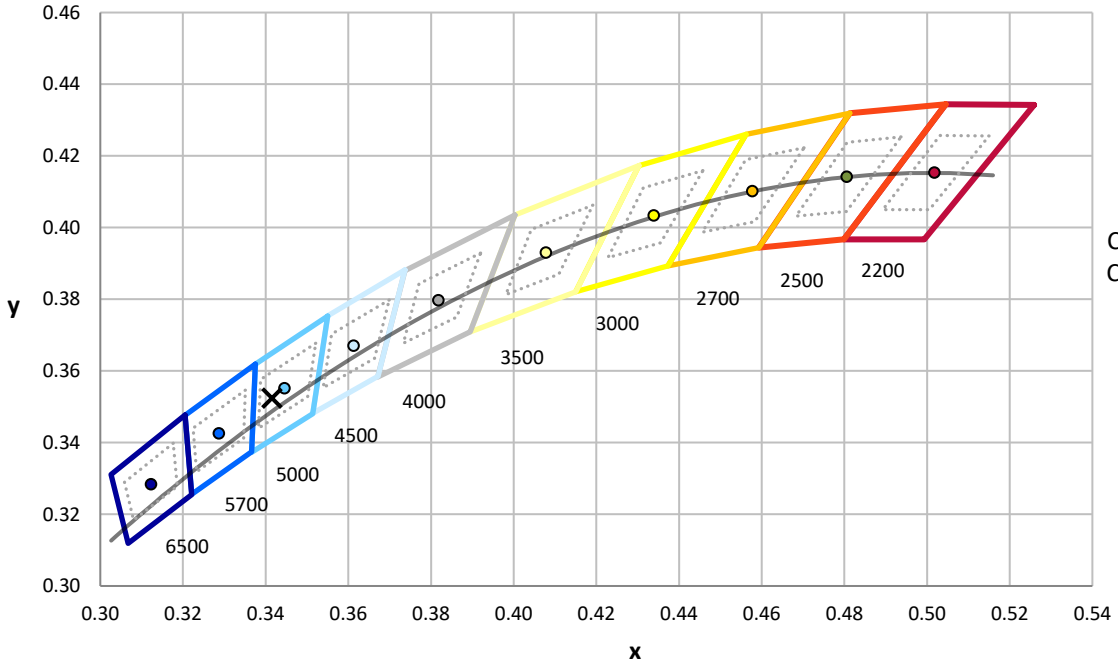
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

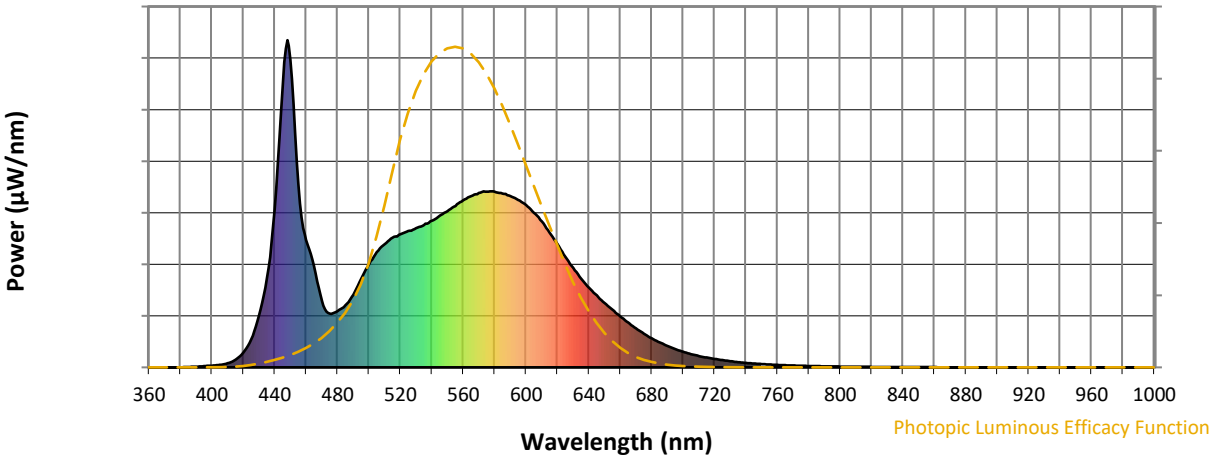


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

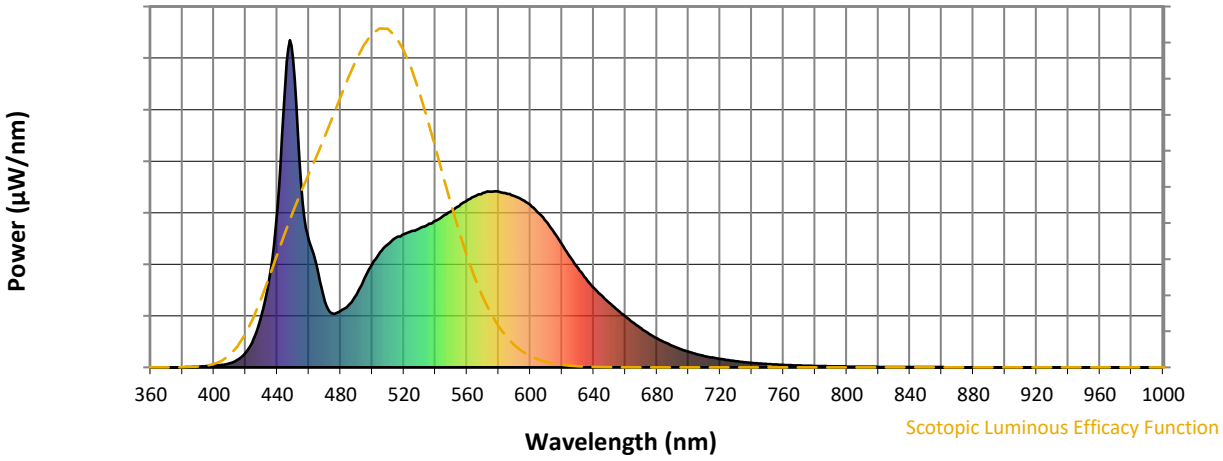


Photopic Lumens: NR

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

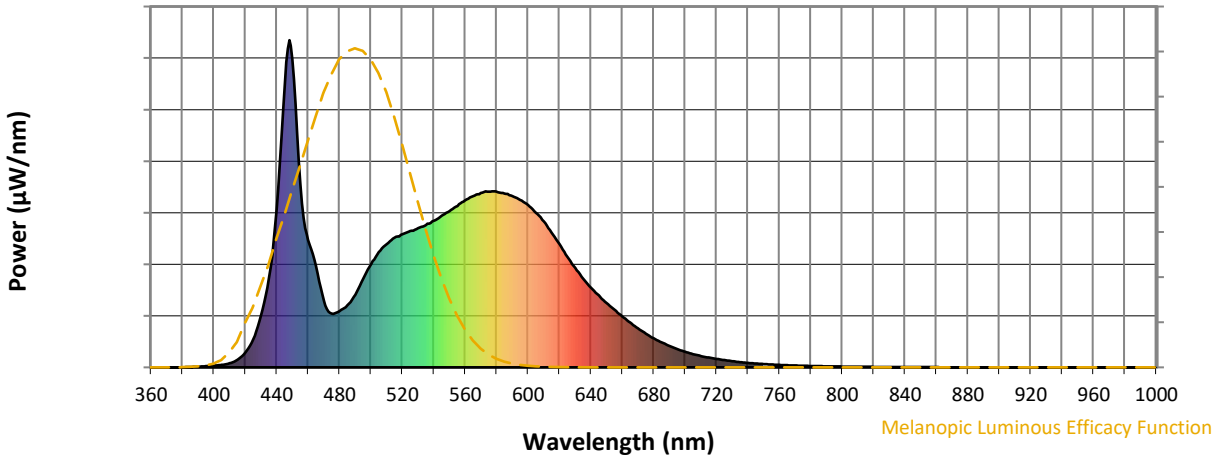


Scotopic Lumens: NR **S/P: 1.92**

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			

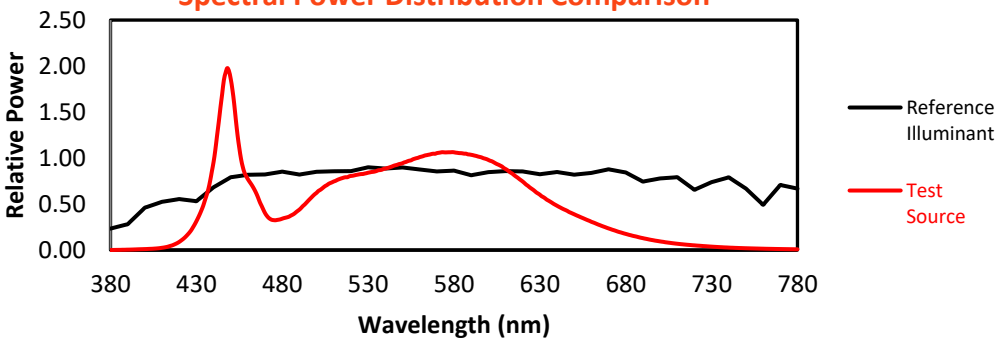
REPORT NUMBER: SP1-2501-332-10

TM-30-18

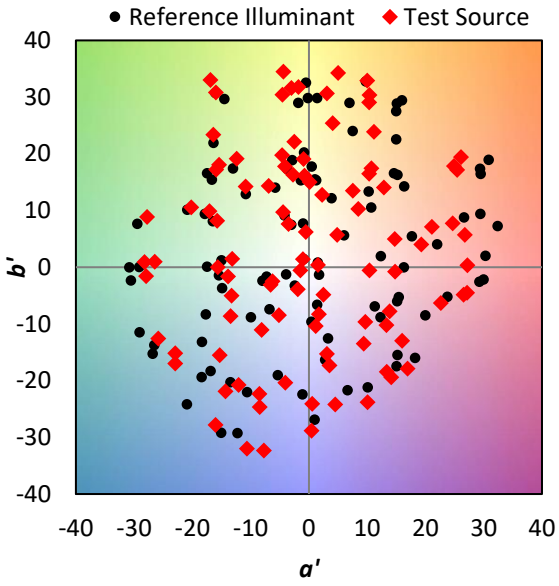
Summary

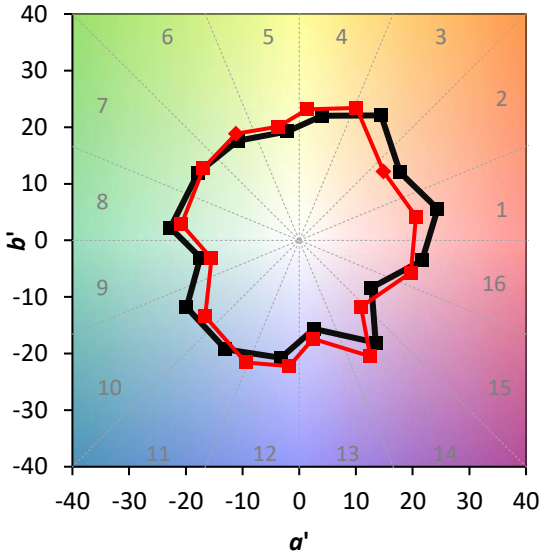
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

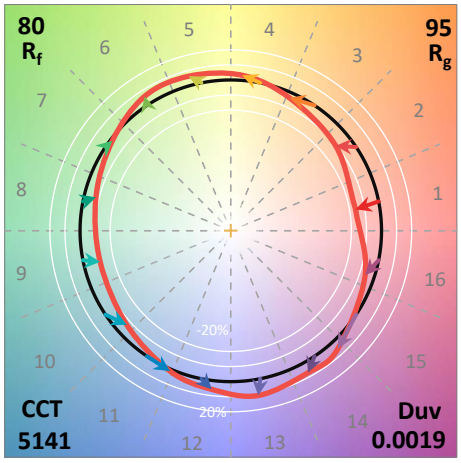
Spectral Power Distribution Comparison

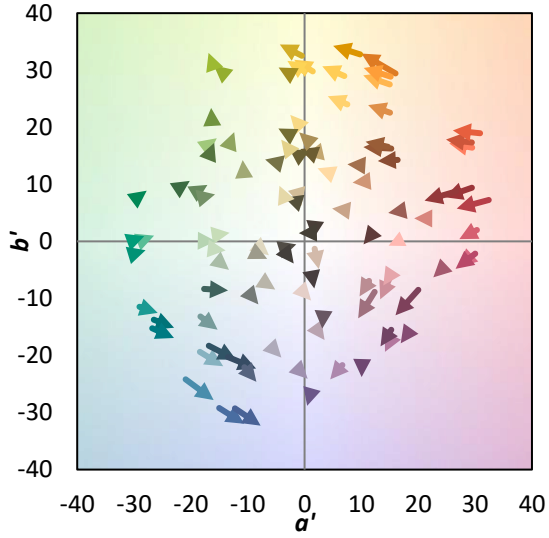


Color Vector Graphics







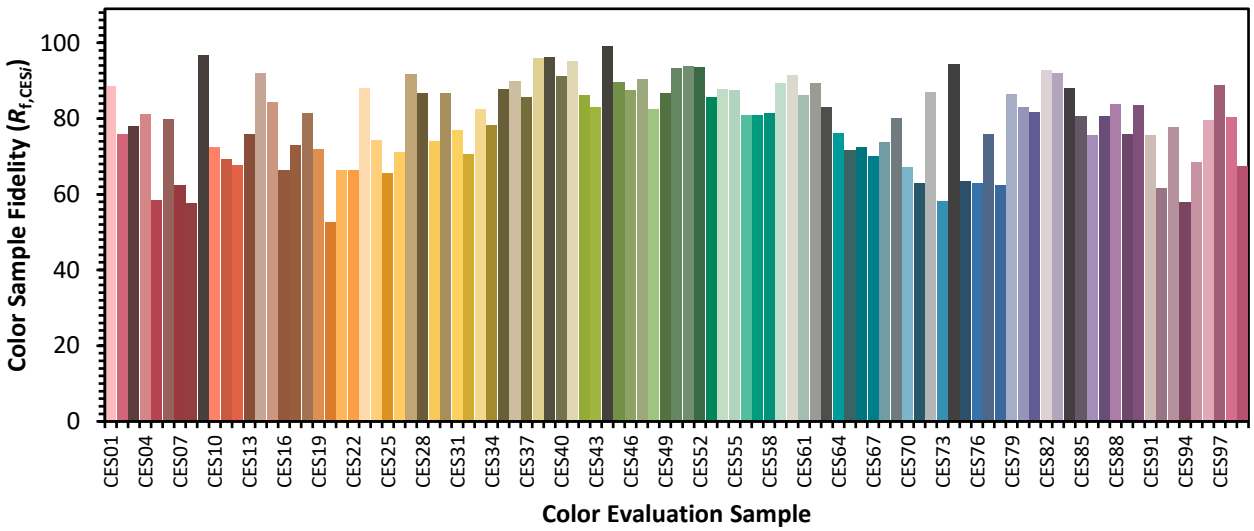


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

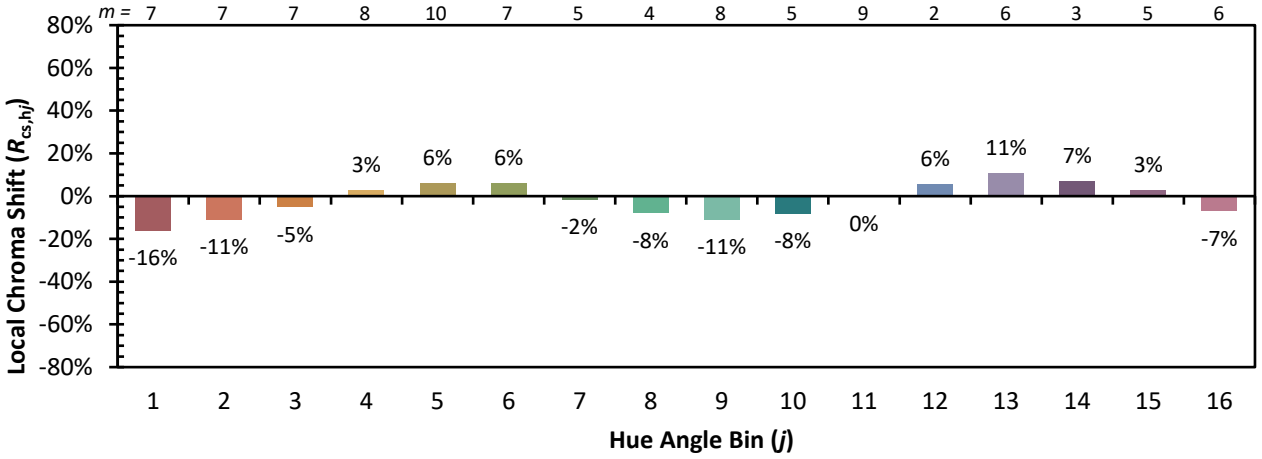
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57 = 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	

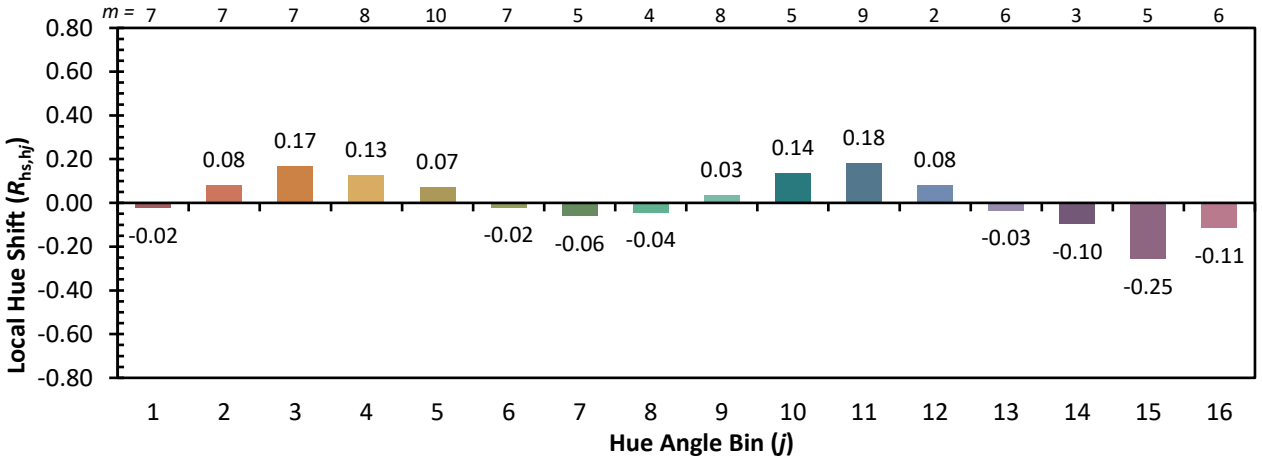


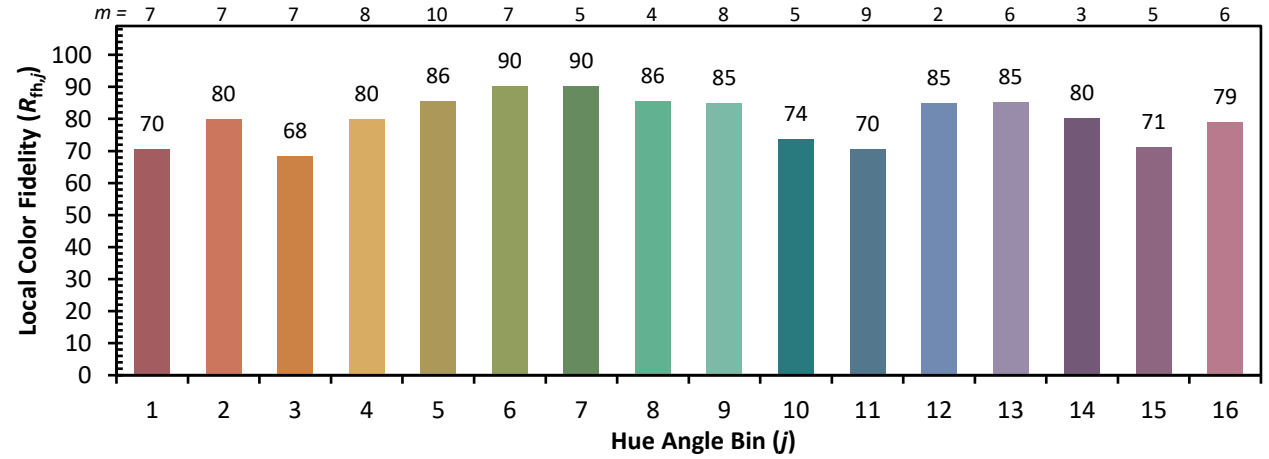
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Color Rendition by Hue-Angle Bin



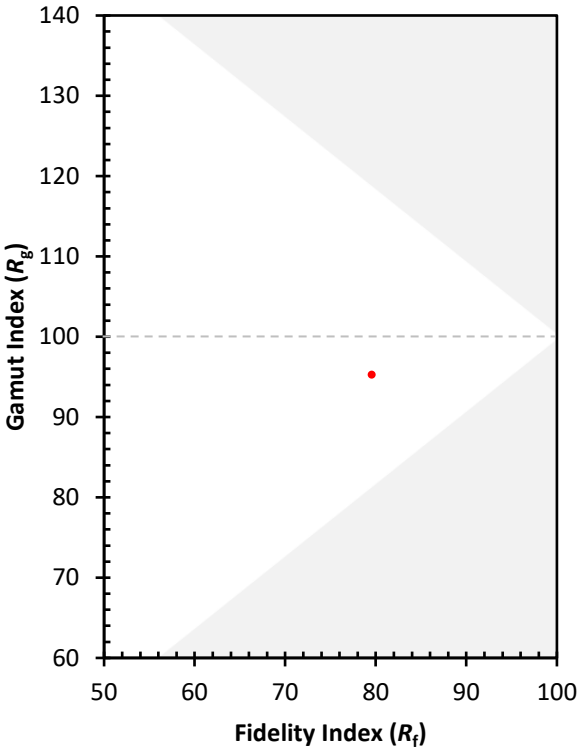


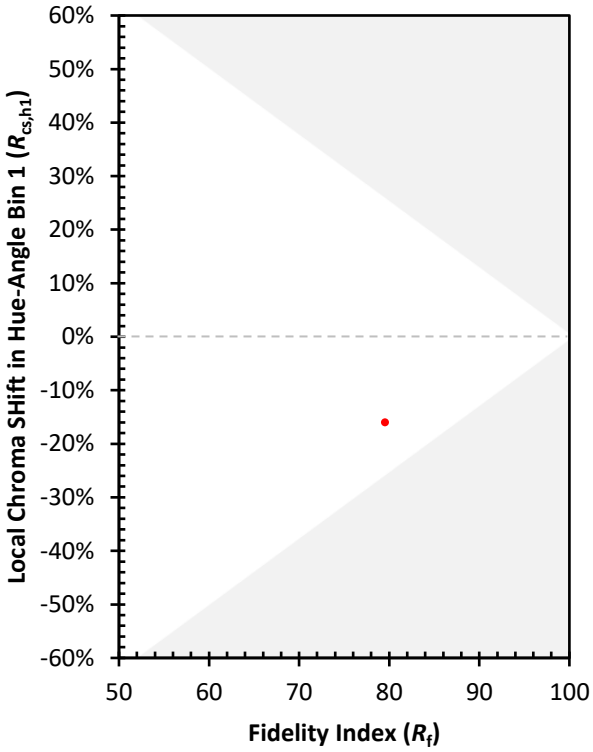


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Measure Comparisons





(END OF REPORT)