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: P1046271

Luminaire Tested: **FFX-CLB-20-750-U-FR-T4-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046271
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-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, 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:	3034.4 lumens
Efficiency:	N/A
Efficacy:	153.3 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

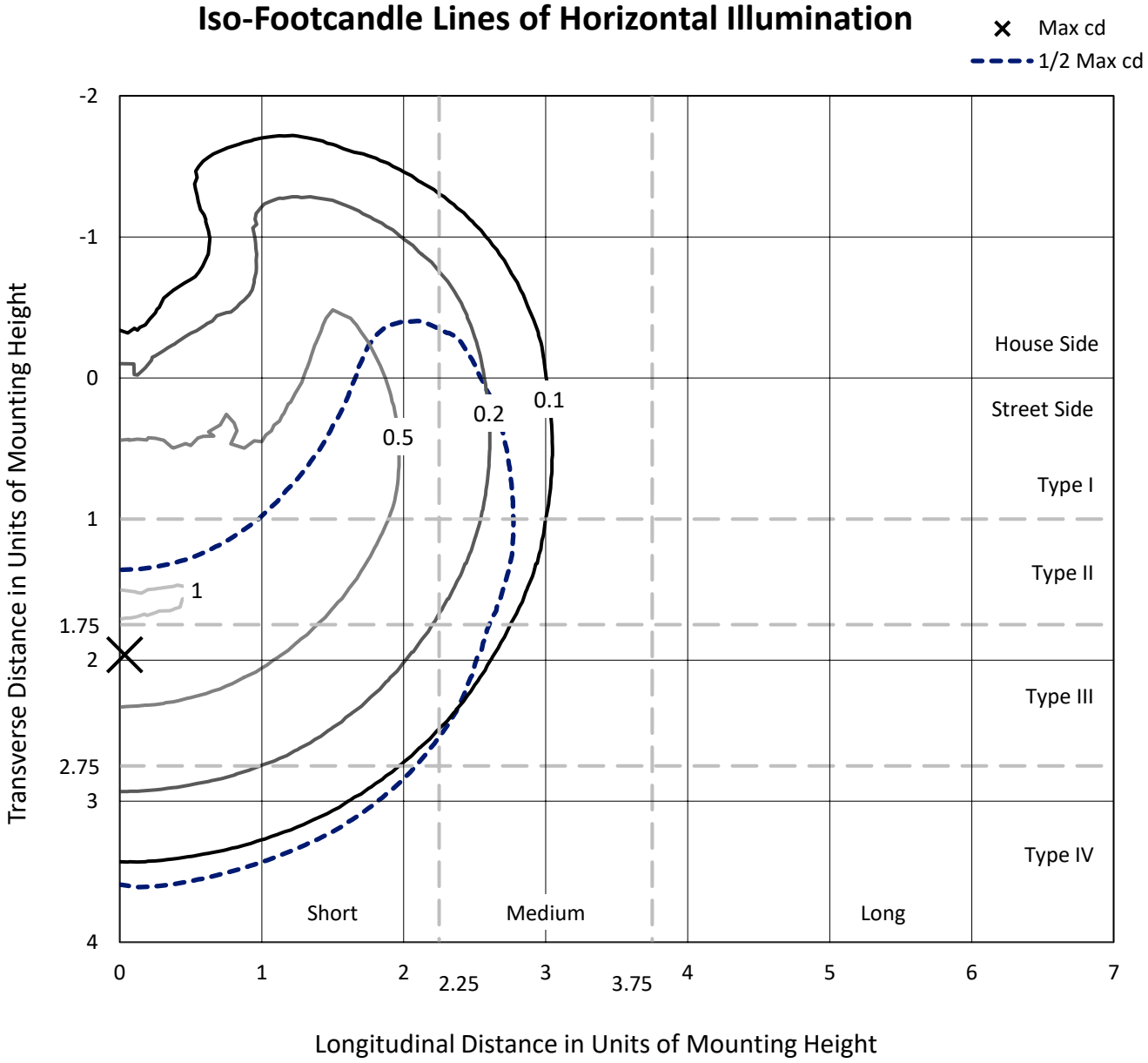


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Iso-Footcandle Lines of Horizontal Illumination



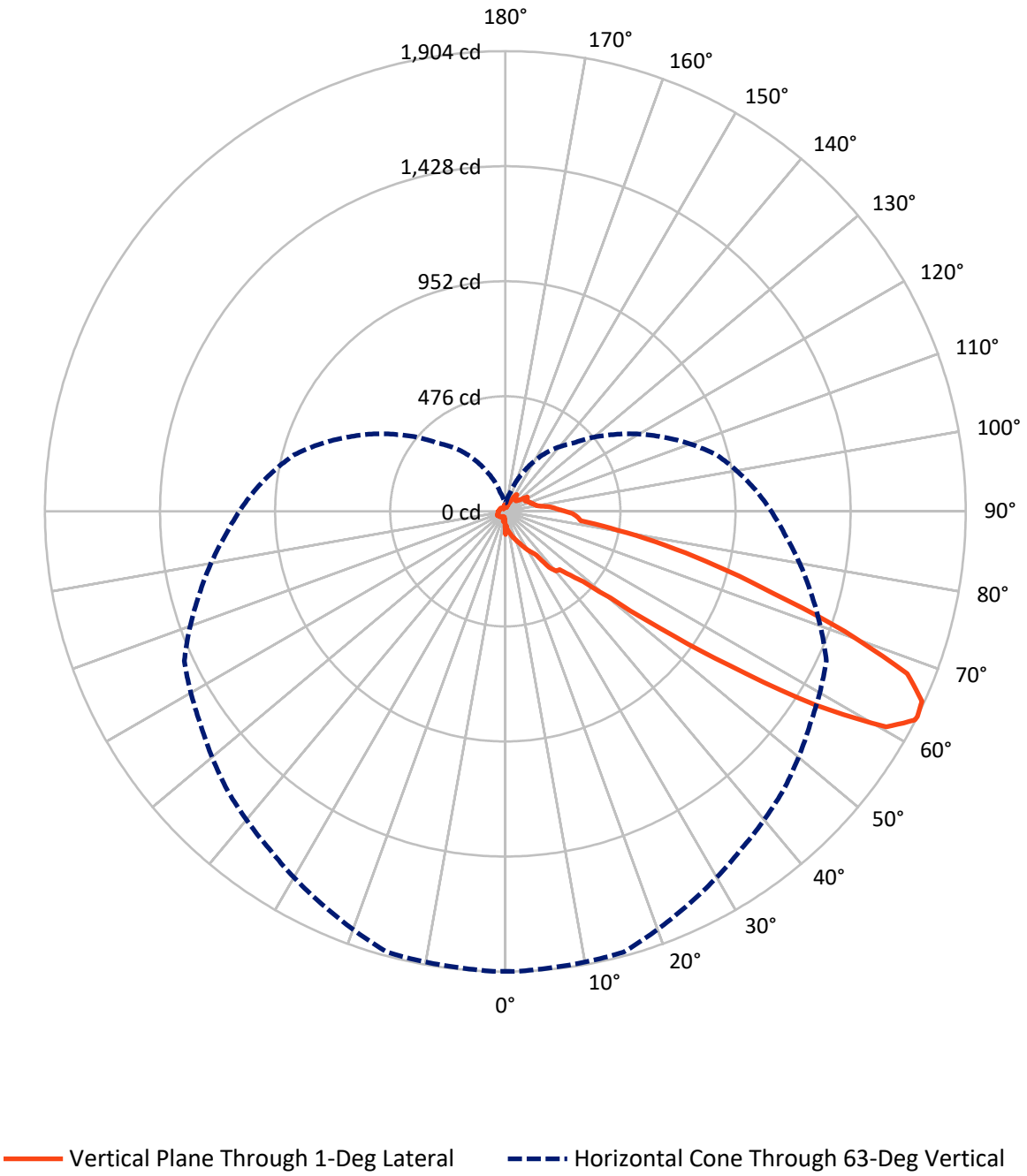
Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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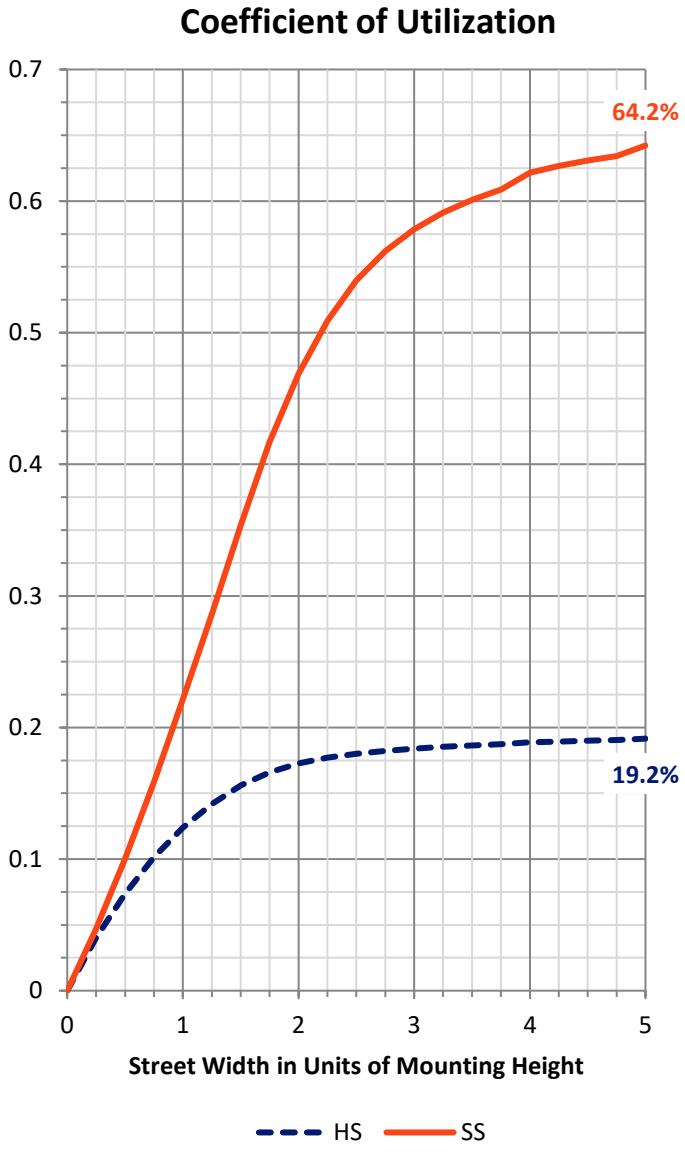
REPORT NUMBER: P1046271
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	600.8	120.4	721.2
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	2035.4	277.9	2313.3
	% Fixture	67.1	9.2	76.2
Total	Lumens	2636.2	398.2	3034.4
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.2
10°-20°	20.0	0.7
20°-30°	44.0	1.5
30°-40°	90.1	3.0
40°-50°	182.0	6.0
50°-60°	587.3	19.4
60°-70°	967.7	31.9
70°-80°	533.4	17.6
80°-90°	206.1	6.8
90°-100°	123.6	4.1
100°-110°	78.7	2.6
110°-120°	60.2	2.0
120°-130°	51.4	1.7
130°-140°	34.4	1.1
140°-150°	29.3	1.0
150°-160°	13.4	0.4
160°-170°	5.4	0.2
170°-180°	1.8	0.1
0°-90°	2636.2	86.9
0°-180°	3034.4	100.0



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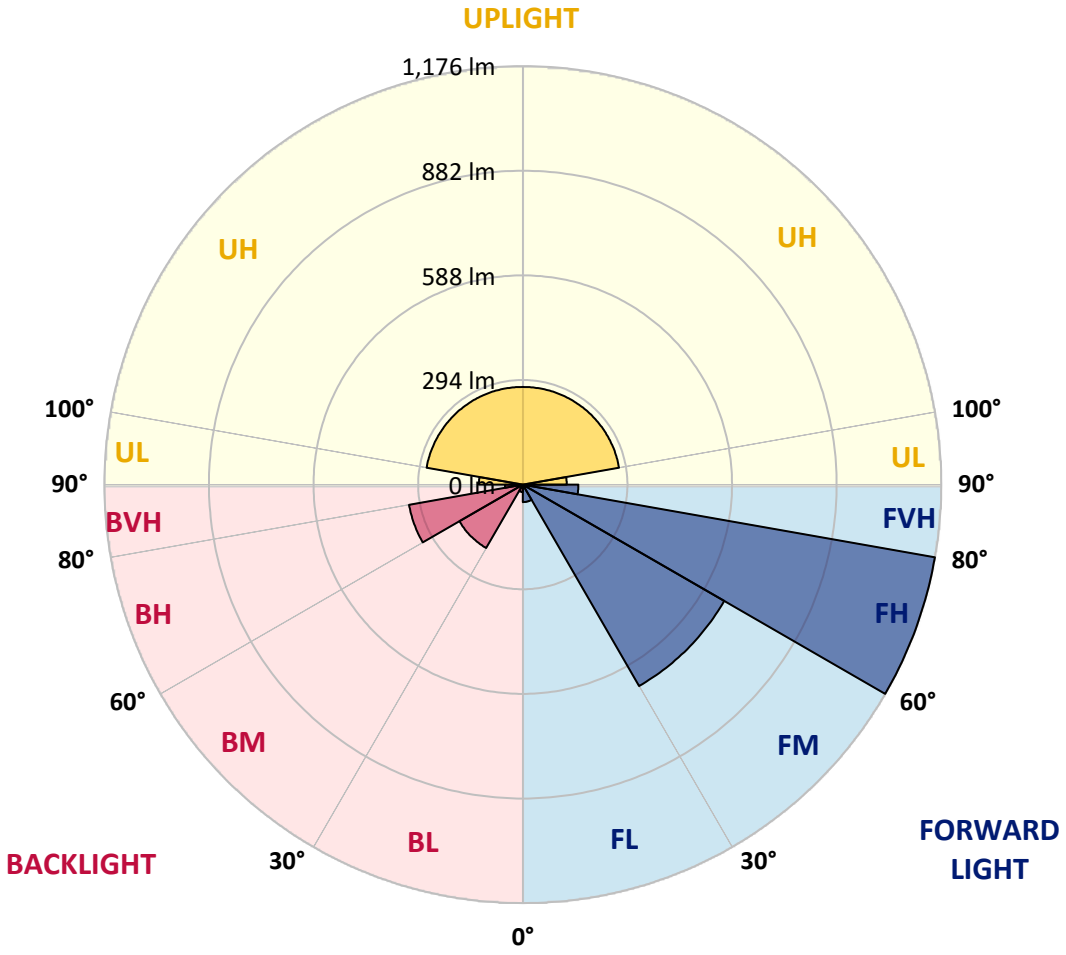
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	49.2	1.6			
FM	(30°-60°)	653.7	21.5			
FH	(60°-80°)	1176.4	38.8			G1/1800
FVH	(80°-90°)	156.1	5.1			G2/225
BL	(0°-30°)	20.5	0.7	B0/110		
BM	(30°-60°)	205.7	6.8	B0/220		
BH	(60°-80°)	324.7	10.7	B1/500		G1/500
BVH	(80°-90°)	49.9	1.6			G1/100
UL	(90°-100°)	123.6	4.1		U3/500	
UH	(100°-180°)	274.6	9.1		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	96.1	*96.1*	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2.5°	59.4	*58.7*	61.5	70.2	79.6	82.7	76.4	74.0	80.9	96.9	98.6
5°	68.4	*69.5*	68.9	69.9	70.8	77.5	83.5	77.3	62.6	51.2	52.0
7.5°	80.7	*80.5*	80.5	79.6	75.3	68.4	66.5	71.4	71.7	60.0	50.9
10°	86.1	*85.9*	85.9	85.0	84.2	84.8	82.7	73.6	66.3	61.5	58.5
12.5°	97.6	*97.1*	96.9	96.5	95.0	93.2	91.7	92.2	85.9	74.0	66.3
15°	107.1	*106.6*	107.1	107.5	106.4	103.4	99.1	93.0	87.4	82.5	75.5
17.5°	117.4	*117.2*	117.0	116.6	115.0	110.9	105.8	100.2	93.9	87.0	80.5
20°	127.4	*126.9*	127.1	127.4	126.7	121.7	116.6	109.7	103.0	96.3	88.7
22.5°	139.2	*139.2*	138.6	138.6	137.9	134.9	128.4	120.4	113.5	105.1	96.7
25°	154.6	*153.9*	153.9	153.3	150.7	147.4	142.9	133.8	125.6	117.6	106.4
27.5°	169.7	*169.0*	169.0	168.8	165.6	161.2	153.7	145.1	137.3	127.1	113.5
30°	186.9	*186.5*	186.7	184.3	181.7	175.7	166.2	156.3	146.1	134.3	121.1
32.5°	204.4	*203.1*	202.9	200.3	196.9	189.5	178.9	169.4	158.9	145.1	134.0
35°	224.9	*222.1*	225.1	224.5	224.1	216.3	204.2	193.2	180.7	168.1	156.3
37.5°	292.7	*294.0*	293.3	284.7	277.8	267.2	261.8	248.9	231.6	216.3	193.8
40°	324.6	*324.2*	323.1	313.6	307.4	296.4	287.7	278.0	267.9	243.9	216.1
42.5°	331.6	*329.2*	330.9	339.8	348.0	340.6	313.2	281.9	267.7	250.8	236.4
45°	382.1	*376.0*	378.6	381.0	373.0	362.4	350.5	330.3	306.3	282.1	255.6
47.5°	436.0	*432.8*	432.6	431.7	432.6	422.4	406.7	387.9	354.0	327.9	298.3
50°	567.5	*563.2*	564.5	565.5	561.0	550.6	533.6	521.3	480.7	430.6	392.2
52.5°	808.6	*806.0*	800.0	800.4	759.6	757.4	734.3	723.3	663.5	606.3	528.8
55°	1106.2	*1123.1*	1104.5	1100.9	1084.0	1068.9	1011.1	963.1	877.4	795.2	704.3
57.5°	1509.5	*1512.3*	1488.7	1489.4	1429.6	1391.6	1338.3	1264.9	1137.3	1018.6	916.7
60°	1803.2	*1810.4*	1799.4	1776.5	1660.8	1592.8	1534.1	1476.2	1378.9	1202.5	1060.7
62.5°	1898.9	*1901.0*	1894.1	1882.0	1779.9	1693.2	1617.6	1533.6	1459.0	1300.1	1157.6
63°	*1902.3*	*1903.8*	*1898.4*	*1888.1*	*1793.3*	*1703.3*	*1627.7*	*1538.0*	*1464.8*	*1308.7*	*1163.4*
65°	1893.0	*1893.7*	1891.3	1877.5	1801.7	1706.5	1623.4	1534.9	1467.8	1312.2	1163.4
67.5°	1809.5	*1793.1*	1800.0	1776.7	1713.7	1618.9	1539.5	1449.2	1388.8	1238.4	1095.9
70°	1488.7	*1489.8*	1488.7	1476.0	1458.1	1383.2	1290.4	1209.2	1132.8	1014.7	902.9
72.5°	1151.8	*1156.3*	1146.4	1153.7	1139.3	1077.3	1017.3	935.1	881.3	781.2	682.5
75°	892.1	*901.4*	904.4	883.5	871.0	857.8	825.0	765.8	712.1	634.6	548.5
77.5°	674.1	*675.8*	678.4	664.2	647.8	653.0	648.2	620.1	575.0	518.0	449.6
80°	465.8	*470.8*	479.2	471.0	472.9	469.9	469.3	446.8	414.2	378.4	341.7
82.5°	313.0	*312.8*	314.9	328.1	340.2	339.8	320.5	289.0	272.4	262.0	241.3
85°	299.6	*299.6*	302.6	293.1	287.1	281.0	279.7	269.0	256.2	232.9	204.2
87.5°	279.3	*278.7*	279.5	271.3	263.3	261.4	259.5	250.2	244.6	224.3	197.9
90°	238.9	*240.7*	240.7	240.0	235.1	233.1	225.4	217.6	214.1	195.8	175.1
92.5°	210.9	*210.9*	213.3	209.2	203.8	206.8	193.4	183.3	178.5	166.2	149.8
95°	190.6	*190.0*	193.0	187.1	183.3	177.6	172.0	161.5	158.0	147.4	130.8
97.5°	152.2	*151.5*	153.3	150.4	144.4	141.8	135.8	127.4	124.1	114.2	104.0
100°	131.0	*130.8*	131.5	129.9	126.5	123.3	118.1	111.4	108.4	100.2	91.1
102.5°	124.3	*123.7*	123.9	124.1	119.2	116.1	111.2	106.0	103.0	96.3	86.3
105°	118.3	*117.9*	117.4	117.4	111.8	108.8	105.6	102.1	99.5	92.2	82.7
107.5°	112.7	*112.0*	110.5	110.3	106.6	103.4	99.5	96.5	93.9	87.2	78.1

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	106.4	*106.2*	105.3	105.6	103.2	98.2	95.0	91.3	88.1	82.2	74.3
112.5°	103.2	*103.2*	102.5	103.6	94.5	89.6	86.1	82.9	80.7	75.1	69.1
115°	99.7	*98.0*	97.3	99.5	89.1	82.2	78.8	75.3	73.2	67.6	62.6
117.5°	92.4	*92.0*	92.2	93.9	90.9	83.3	77.7	73.4	71.2	67.1	62.6
120°	105.3	*104.9*	102.3	101.9	96.7	90.7	87.0	84.6	81.4	74.7	66.1
122.5°	110.1	*109.2*	105.1	106.4	99.5	96.5	95.0	94.1	91.1	82.2	69.1
125°	95.8	*94.5*	93.5	93.9	90.0	86.1	84.6	83.3	80.3	75.3	65.8
127.5°	76.8	*77.5*	76.6	74.3	73.6	67.8	65.8	64.3	61.5	57.4	55.9
130°	72.1	*71.7*	71.4	71.0	70.6	66.3	63.2	59.6	57.2	53.7	49.6
132.5°	64.1	*64.5*	65.2	68.9	72.3	68.6	60.9	55.3	53.7	54.4	52.7
135°	60.9	*61.1*	61.1	63.9	66.9	63.2	57.4	52.0	51.4	53.7	51.6
137.5°	62.4	*63.5*	63.2	62.6	60.9	58.3	57.0	54.0	52.2	50.7	47.1
140°	65.8	*67.1*	66.5	62.8	61.5	60.2	61.1	60.0	55.7	50.5	45.1
142.5°	65.4	*66.5*	66.1	65.6	68.0	65.0	60.9	56.8	53.3	50.5	47.1
145°	84.8	*84.4*	82.7	82.7	79.9	75.3	72.5	68.2	64.1	60.4	54.8
147.5°	78.4	*79.4*	79.9	77.9	76.6	73.6	73.2	70.8	69.5	66.3	60.4
150°	62.2	*63.0*	61.7	60.2	59.6	59.8	58.7	57.0	55.7	53.3	50.7
152.5°	43.0	*43.4*	43.0	41.7	41.2	40.6	40.8	39.5	38.6	37.1	34.8
155°	39.1	*39.3*	39.5	37.3	36.9	37.1	37.3	36.5	34.8	33.5	30.7
157.5°	30.7	*30.2*	30.2	29.8	30.0	29.4	29.4	29.1	28.5	27.6	26.8
160°	24.4	*24.6*	24.6	24.6	25.0	24.6	24.6	24.0	24.0	23.5	23.1
162.5°	20.7	*20.7*	20.7	20.7	20.5	20.5	20.9	20.7	20.7	20.9	21.4
165°	17.5	*17.7*	17.7	17.7	17.7	17.7	18.1	18.1	18.6	19.4	20.5
167.5°	16.4	*16.2*	16.2	16.4	16.4	16.8	16.8	17.7	19.2	20.7	20.7
170°	15.5	*15.5*	15.5	15.8	15.8	16.0	16.6	18.1	19.9	20.5	19.6
172.5°	16.2	*16.0*	16.0	16.2	16.2	16.8	17.7	19.0	19.6	19.6	18.8
175°	16.6	*16.4*	16.4	16.6	16.6	17.1	17.9	18.8	19.2	19.4	19.4
177.5°	16.2	*16.2*	16.2	16.2	16.2	16.4	16.4	17.1	17.5	17.9	18.3
180°	15.5	*15.5*	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2.5°	98.6	90.0	77.3	61.7	71.9	84.4	82.7	73.0	58.3	43.8	43.8
5°	54.6	57.8	61.1	53.5	47.9	47.5	46.2	41.4	40.8	33.7	31.7
7.5°	47.7	44.7	44.0	52.0	51.4	33.9	26.8	23.7	25.0	33.9	35.0
10°	57.2	55.9	51.8	43.2	36.0	32.8	32.6	33.0	30.2	24.4	22.9
12.5°	64.5	62.4	58.7	56.1	47.9	38.2	32.8	30.4	32.2	40.8	42.7
15°	71.7	68.6	62.4	55.3	47.1	39.9	34.3	29.4	29.4	28.1	27.4
17.5°	77.3	73.4	65.8	58.1	48.8	39.9	32.6	27.6	25.3	24.8	24.8
20°	84.4	80.7	72.5	63.0	51.4	40.4	32.4	27.6	24.8	23.7	23.5
22.5°	93.2	88.5	77.9	66.7	52.9	40.8	32.8	27.8	25.0	23.5	23.1
25°	101.5	96.1	83.5	71.9	56.3	41.9	33.2	28.5	25.5	23.7	23.5
27.5°	108.1	102.3	90.7	77.3	60.0	44.5	35.4	29.8	26.1	24.4	24.0
30°	115.7	110.3	98.0	82.9	63.5	47.7	38.4	32.2	28.1	25.7	25.5
32.5°	126.9	120.2	106.0	88.7	67.6	51.2	41.4	34.3	29.4	28.1	28.1
35°	147.2	140.3	121.5	98.2	71.4	54.6	44.5	36.7	31.3	28.3	28.1
37.5°	185.2	175.7	152.2	119.8	78.1	57.4	47.1	38.6	32.4	28.1	27.4
40°	202.7	186.5	161.5	131.2	87.9	60.7	49.2	40.1	32.6	28.7	28.3
42.5°	223.4	209.8	174.4	134.0	95.0	68.6	52.9	41.9	33.9	29.6	29.1
45°	243.3	230.1	200.3	158.4	110.9	80.5	59.4	45.3	36.0	30.9	30.0
47.5°	279.3	265.5	224.1	183.5	133.0	99.1	72.3	50.7	39.1	32.2	31.1
50°	373.0	353.4	304.6	243.1	170.1	125.8	92.6	61.9	43.2	32.8	31.5
52.5°	493.9	463.9	411.0	332.4	243.3	178.1	129.7	90.0	50.3	33.0	31.1
55°	689.9	653.0	567.9	453.1	340.6	265.7	196.4	138.4	74.0	34.5	30.9
57.5°	875.7	848.3	774.0	619.9	451.8	337.6	258.4	194.7	100.8	38.0	32.4
60°	1012.4	960.1	873.3	715.3	545.7	391.8	287.5	202.5	103.6	38.6	33.5
62.5°	1093.9	1029.4	900.8	729.2	559.1	403.0	299.2	186.3	83.8	37.8	35.0
63°	*1100.0*	*1037.4*	*904.2*	*724.4*	*554.7*	*400.0*	*297.4*	*182.4*	*81.4*	*37.6*	*35.4*
65°	1092.4	1038.0	892.1	699.6	518.0	373.2	276.9	163.8	66.1	36.9	35.8
67.5°	1017.3	973.1	828.9	632.5	461.3	322.3	229.2	125.0	51.6	35.2	34.8
70°	851.5	800.8	670.0	522.8	365.7	260.3	182.8	96.9	42.5	33.5	33.0
72.5°	633.7	612.6	509.0	397.8	281.3	200.7	137.3	73.6	37.8	32.2	31.7
75°	512.4	480.7	403.6	314.3	213.9	149.2	101.9	55.3	34.5	31.1	30.7
77.5°	423.7	402.6	335.9	237.2	152.6	107.5	74.9	43.8	33.0	30.4	30.2
80°	328.1	314.9	262.0	175.5	109.2	80.1	59.4	40.1	32.4	30.2	30.0
82.5°	231.4	227.3	190.8	131.2	92.8	71.7	55.3	39.5	32.6	30.7	30.2
85°	191.7	182.8	160.6	124.8	88.1	68.6	53.3	38.9	32.6	30.4	30.2
87.5°	186.7	179.4	155.4	116.8	80.7	63.5	50.1	37.3	31.5	29.6	29.4
90°	168.8	161.5	139.2	104.3	76.0	59.6	46.8	35.4	30.2	28.7	28.3
92.5°	144.0	137.3	120.9	94.8	72.7	57.2	45.5	34.8	30.0	28.3	28.1
95°	125.0	119.4	106.0	87.2	67.1	53.3	43.2	33.5	29.1	27.6	27.4
97.5°	99.5	96.1	85.7	71.0	56.8	46.6	38.6	31.5	28.1	26.8	26.5
100°	87.6	84.6	76.4	64.3	52.7	44.0	37.3	30.9	27.2	26.1	25.9
102.5°	82.2	79.9	72.5	60.4	49.4	41.9	35.6	29.8	26.5	25.5	25.3
105°	78.1	76.0	69.3	57.6	46.6	39.1	33.5	28.5	25.5	24.6	24.4
107.5°	73.2	71.4	65.0	53.5	43.8	36.7	31.7	27.4	24.8	24.0	24.0

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

Scaled Data Report

REPORT NUMBER: P1046271
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	69.1	67.8	61.1	51.2	41.9	35.2	30.7	27.0	24.6	23.7	23.7
112.5°	64.8	63.2	57.0	48.1	40.1	34.1	29.8	26.3	24.2	23.3	23.3
115°	60.0	58.5	52.5	44.7	38.0	32.4	28.5	25.3	23.3	22.7	22.7
117.5°	60.9	57.0	49.6	42.7	36.3	31.1	27.6	24.8	22.7	22.2	22.0
120°	61.7	56.8	51.4	44.9	37.3	30.4	27.0	24.2	22.4	21.8	21.8
122.5°	60.2	60.9	56.1	46.2	35.6	29.8	26.8	24.4	22.7	22.0	22.2
125°	58.9	60.4	54.8	43.6	34.3	29.6	26.8	25.0	23.5	22.9	22.9
127.5°	54.2	54.4	46.6	39.1	33.5	28.9	26.5	25.3	24.0	23.1	22.7
130°	47.7	47.3	43.6	38.0	31.5	27.8	25.7	25.0	23.7	22.2	22.0
132.5°	51.2	49.9	43.8	36.0	29.8	26.8	25.5	24.6	22.4	20.7	20.5
135°	48.6	47.3	41.0	33.7	28.9	27.2	26.5	24.4	21.2	19.9	19.6
137.5°	44.2	42.1	36.9	32.2	29.4	28.3	26.8	24.0	20.7	19.2	19.0
140°	42.5	40.4	36.3	33.0	29.8	26.3	23.7	21.2	19.0	17.7	17.5
142.5°	44.7	43.0	38.9	33.0	27.8	24.2	21.8	20.1	18.1	16.2	16.0
145°	52.0	48.8	43.2	37.1	31.7	27.4	23.7	20.1	16.6	14.5	14.2
147.5°	57.6	55.0	49.0	42.1	34.5	27.6	22.2	17.7	14.9	13.6	13.4
150°	47.9	46.4	41.9	36.3	30.7	24.4	19.2	15.8	14.0	13.6	13.6
152.5°	33.5	32.4	30.9	27.2	22.9	19.2	16.4	14.7	14.0	13.8	13.8
155°	29.6	28.9	27.0	23.7	20.7	17.9	15.8	14.5	14.2	14.0	14.0
157.5°	25.5	25.3	24.0	21.4	19.0	16.8	15.3	14.7	14.2	14.0	14.0
160°	22.9	22.2	20.9	19.2	17.7	16.4	15.5	15.1	14.7	14.5	14.5
162.5°	21.4	20.9	19.4	18.1	17.3	17.1	17.3	17.1	16.0	15.3	15.1
165°	20.3	20.1	18.6	17.7	17.3	18.3	19.6	19.2	17.3	16.2	16.2
167.5°	20.3	19.9	18.3	17.7	18.8	20.3	21.4	21.2	19.4	18.3	17.7
170°	19.2	18.8	18.3	18.6	20.1	20.7	20.9	21.4	21.6	22.7	23.1
172.5°	18.6	18.6	19.0	19.9	21.2	21.4	20.7	20.9	22.9	25.3	25.5
175°	19.4	19.4	20.3	21.8	22.4	22.9	22.0	22.2	24.4	26.8	27.0
177.5°	18.6	18.8	19.2	19.4	19.2	18.6	18.3	19.2	18.6	18.3	19.0
180°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5

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

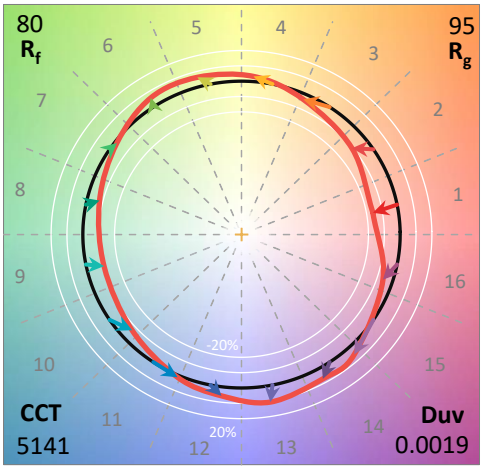
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

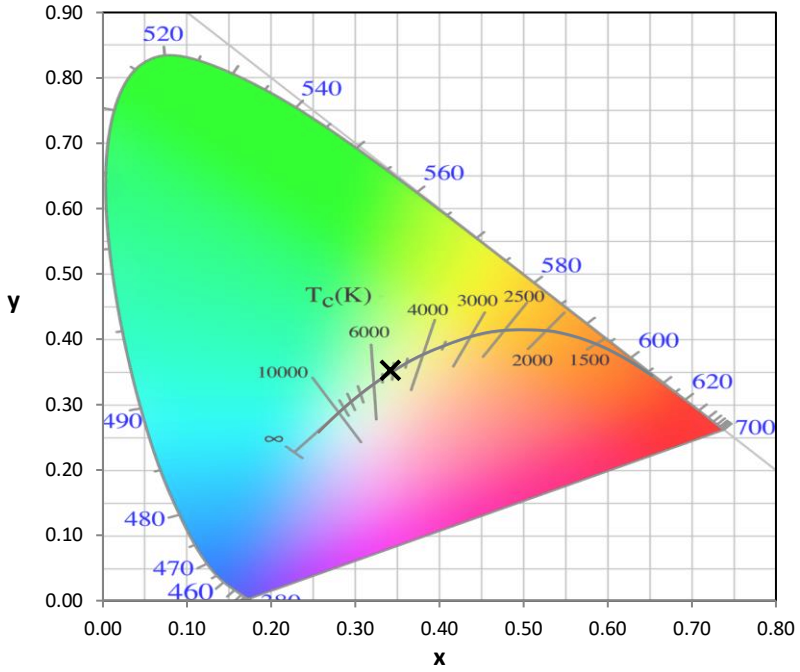
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

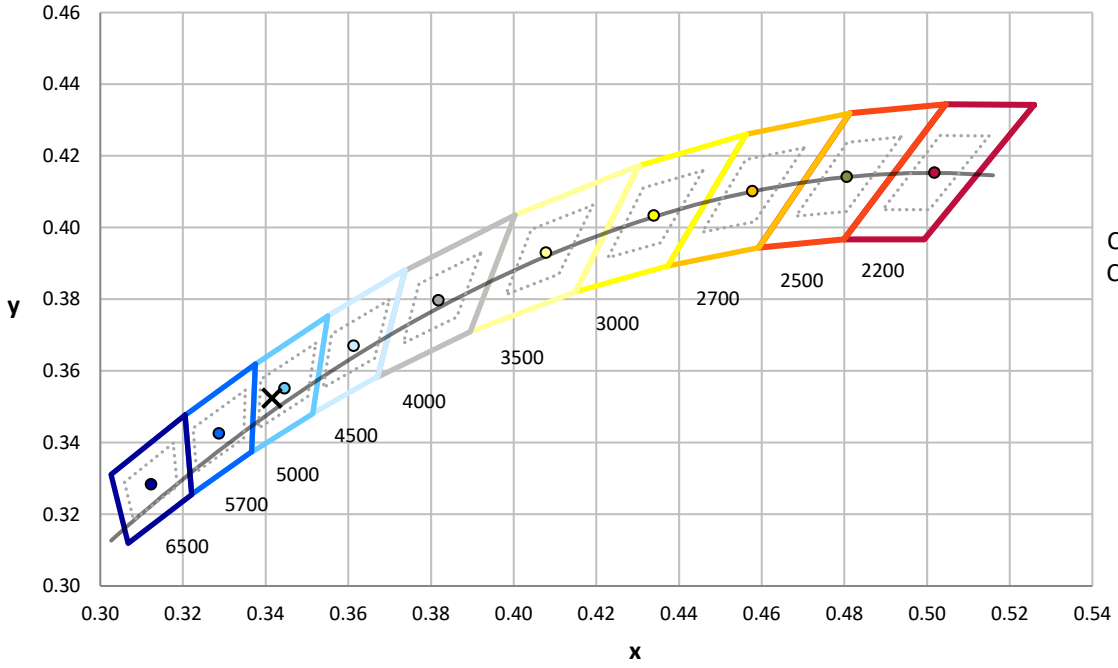
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

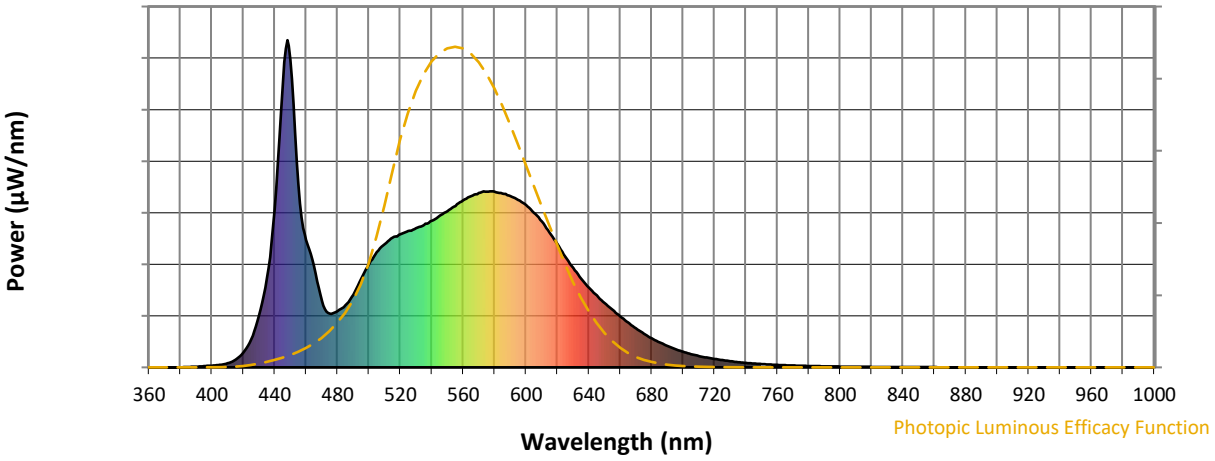


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

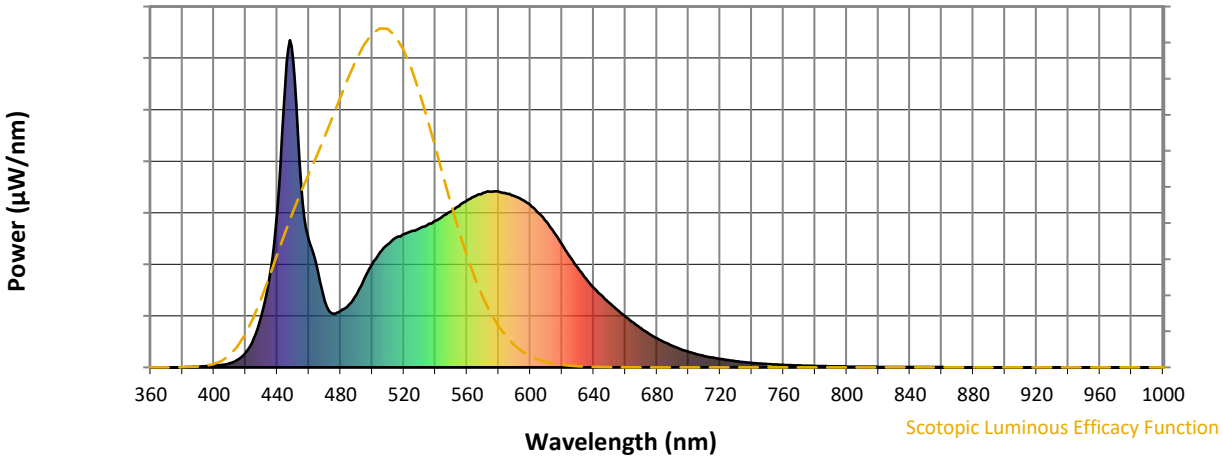


Photopic Lumens: NR

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

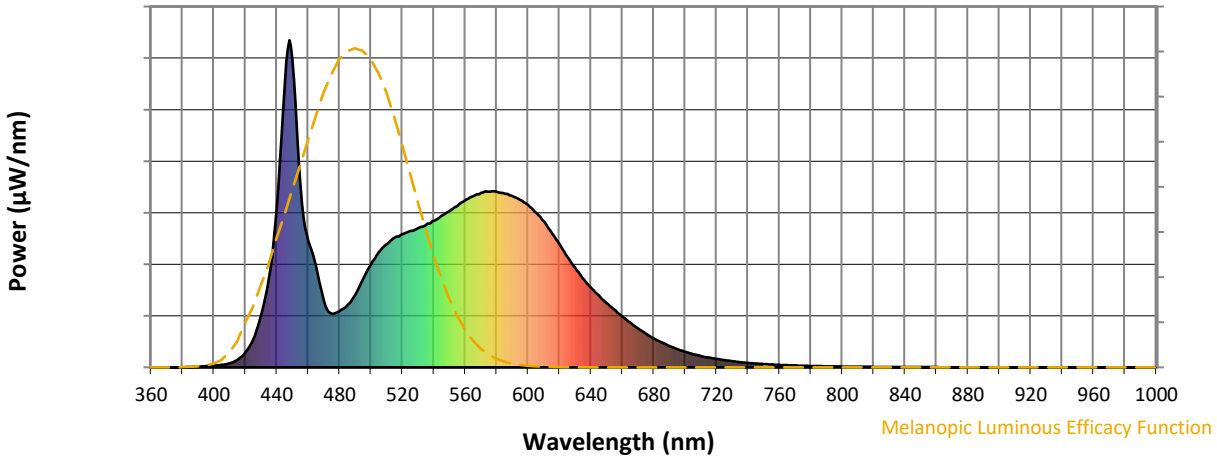


Scotopic Lumens: NR **S/P: 1.92**

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			

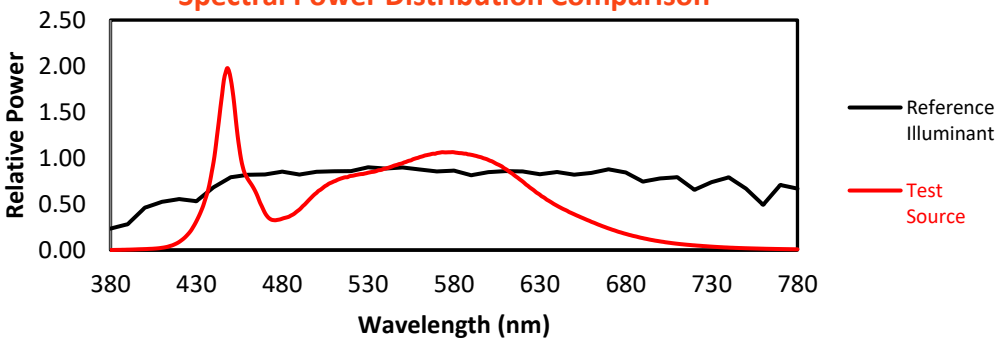
REPORT NUMBER: SP1-2501-332-10

TM-30-18

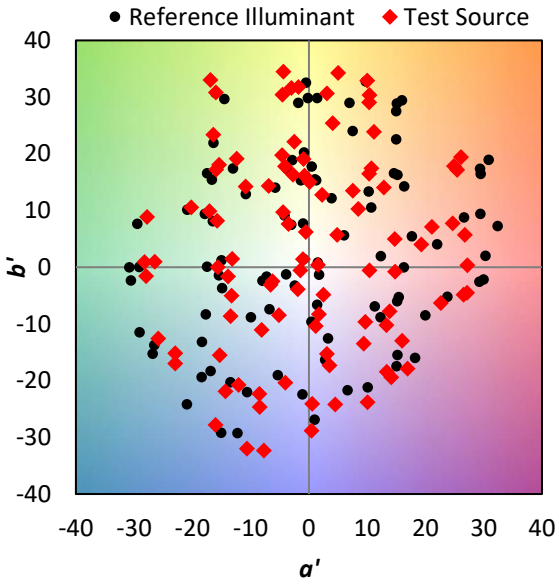
Summary

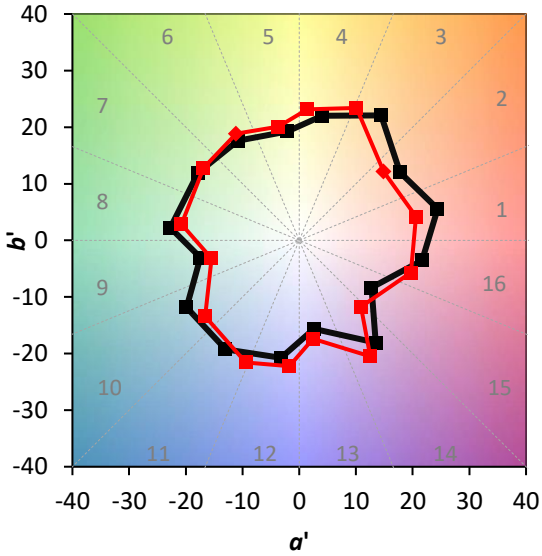
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

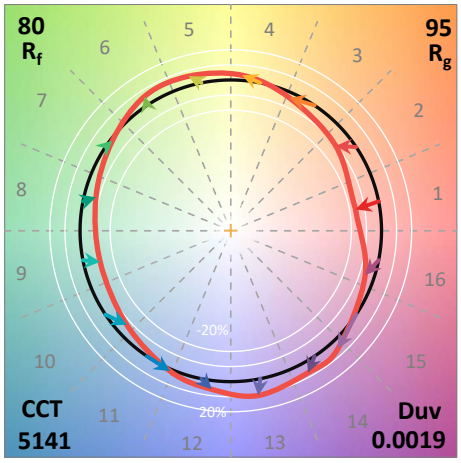
Spectral Power Distribution Comparison

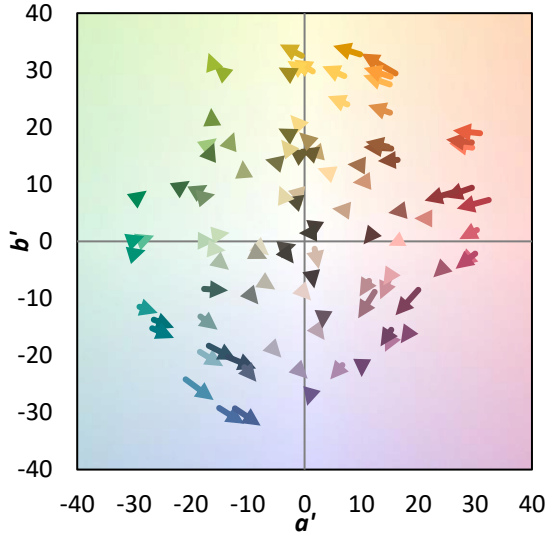


Color Vector Graphics







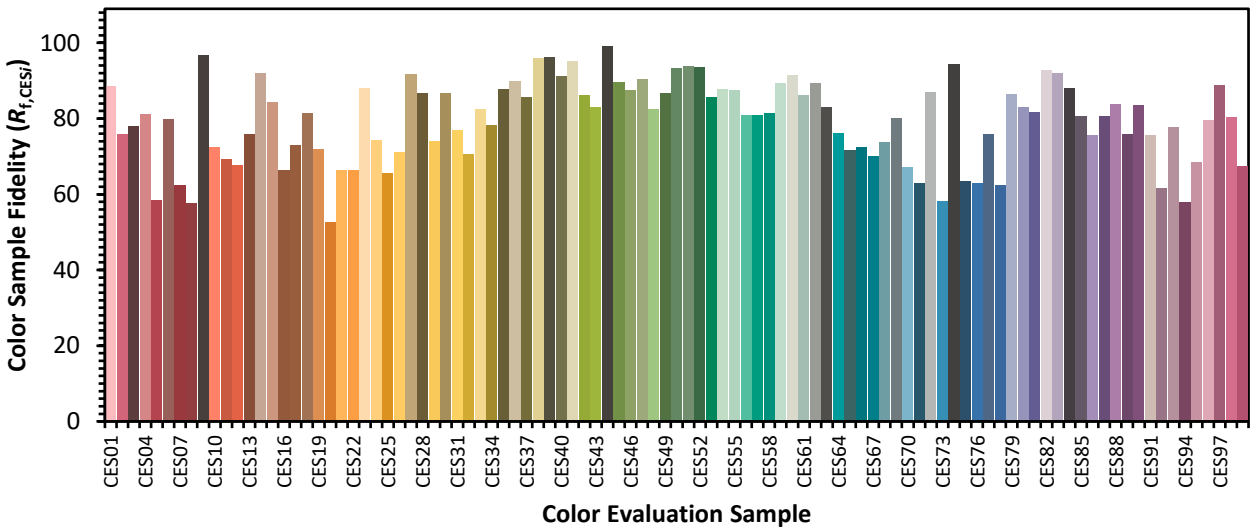


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

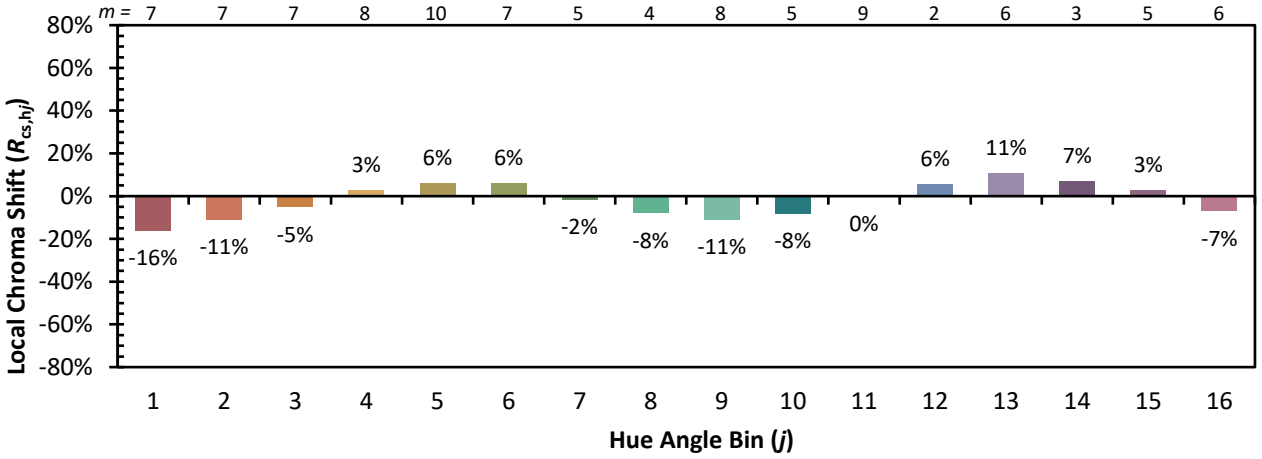
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57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

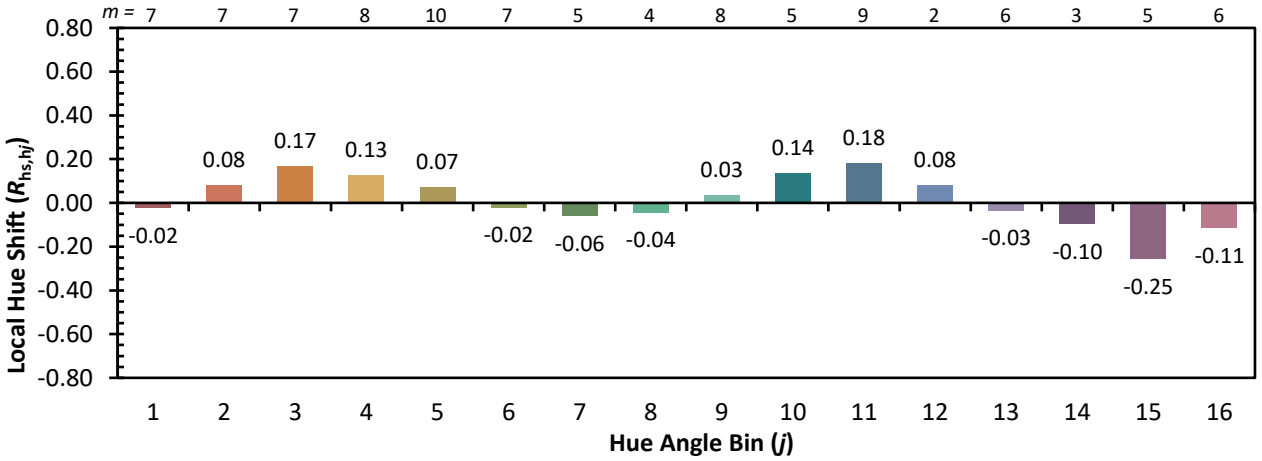


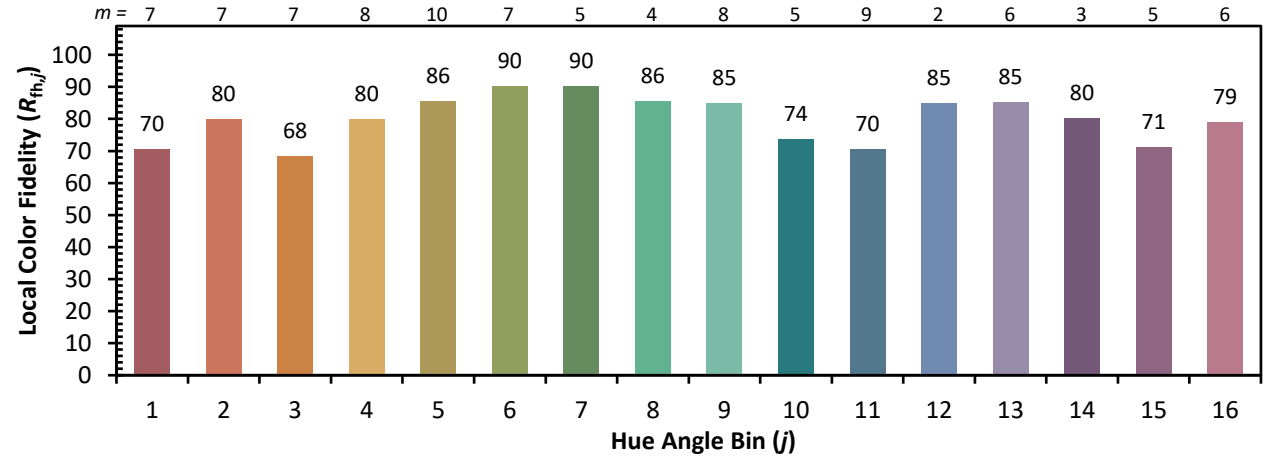
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Color Rendition by Hue-Angle Bin



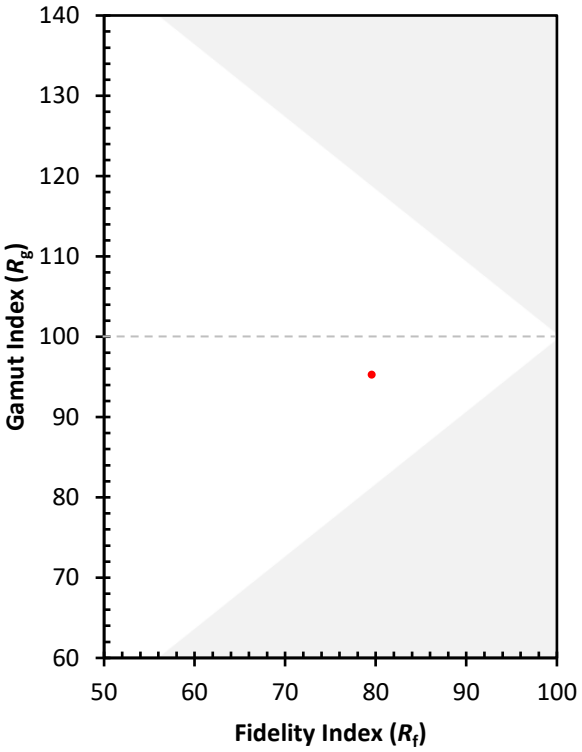


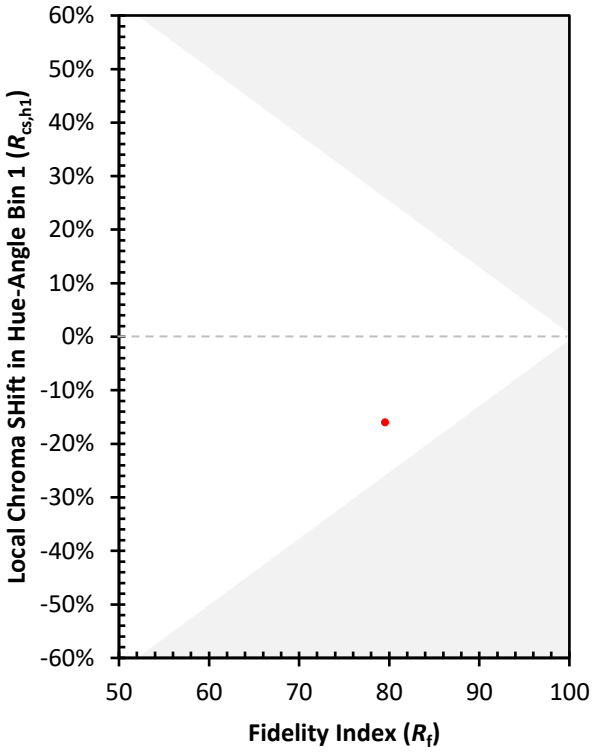


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Measure Comparisons





(END OF REPORT)