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: P1045820

Luminaire Tested: **FFX-CLB-30-750-U-FR-T5-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:	P1045820
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-750-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3425.3 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 - U4 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

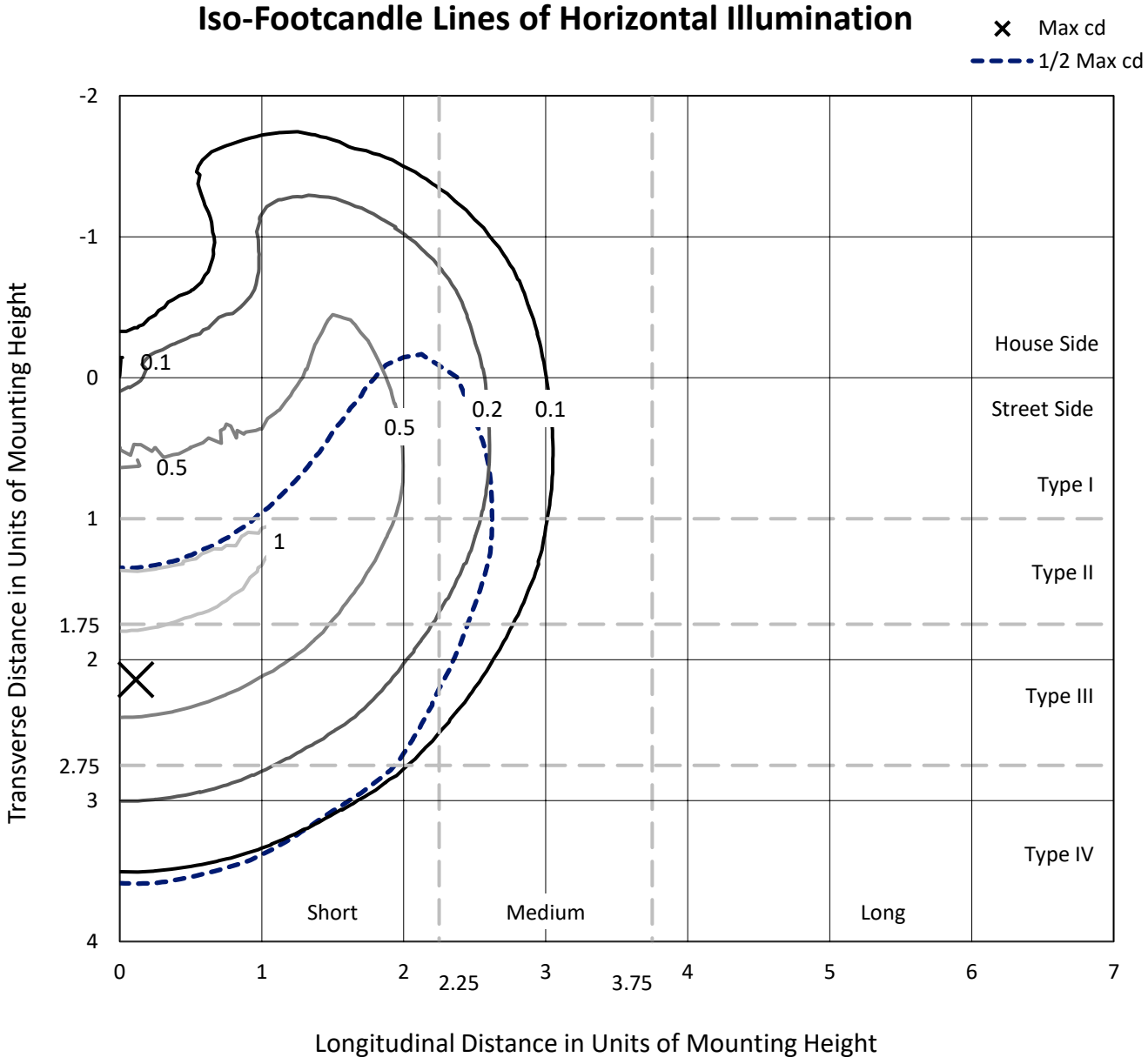


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Iso-Footcandle Lines of Horizontal Illumination



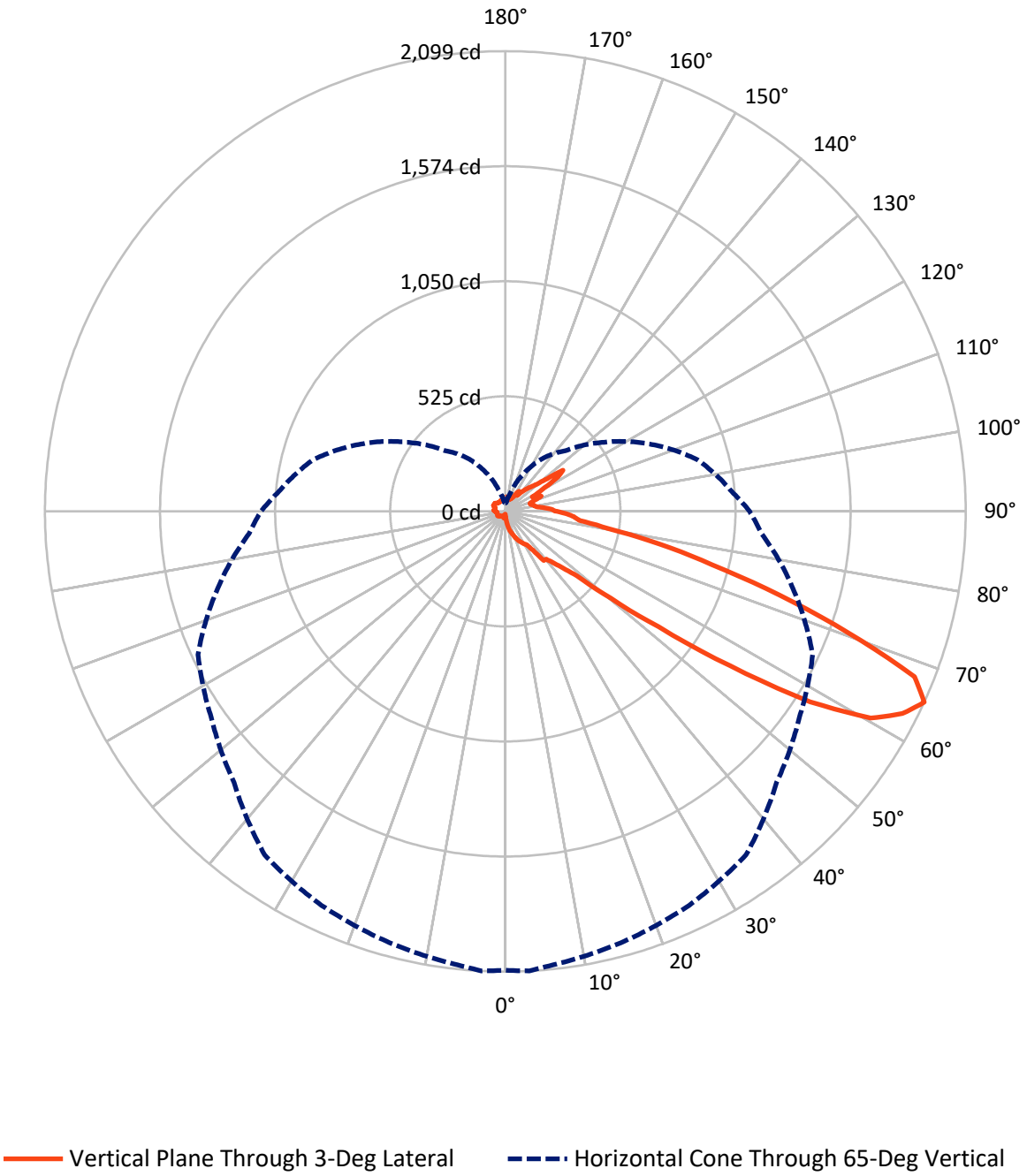
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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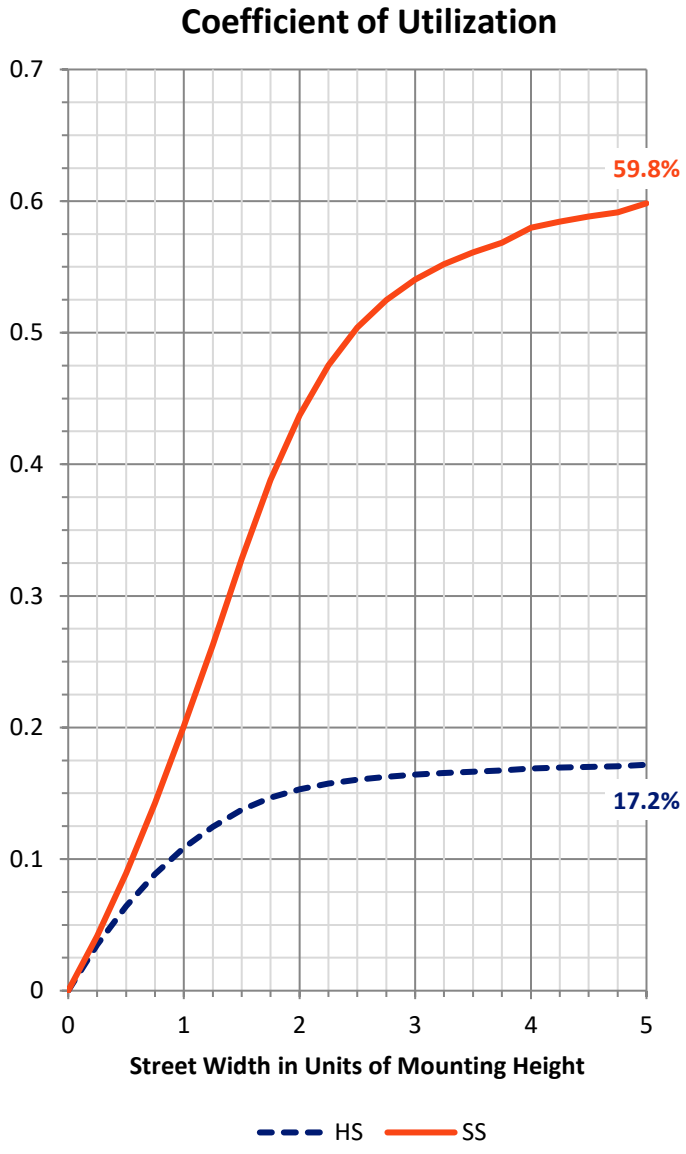
REPORT NUMBER: P1045820
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	610.6	237.7	848.3
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	2134.6	442.4	2577.0
	% Fixture	62.3	12.9	75.2
Total	Lumens	2745.2	680.1	3425.3
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	19.4	0.6
20°-30°	42.8	1.2
30°-40°	85.3	2.5
40°-50°	184.1	5.4
50°-60°	629.5	18.4
60°-70°	1022.9	29.9
70°-80°	550.4	16.1
80°-90°	207.4	6.1
90°-100°	130.8	3.8
100°-110°	93.0	2.7
110°-120°	102.6	3.0
120°-130°	156.8	4.6
130°-140°	94.1	2.7
140°-150°	51.9	1.5
150°-160°	28.9	0.8
160°-170°	16.0	0.5
170°-180°	5.9	0.2
0°-90°	2745.2	80.1
0°-180°	3425.3	100.0



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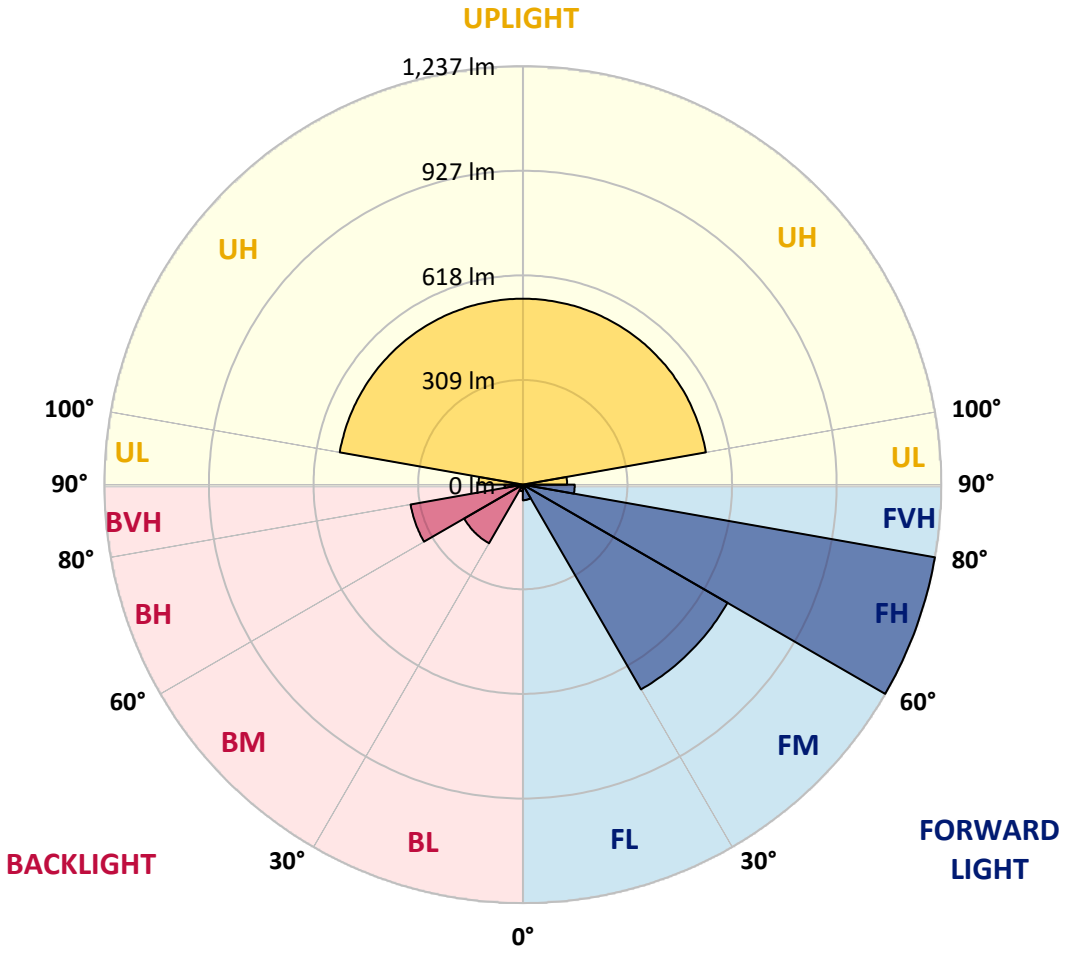
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	46.2	1.3			
FM	(30°-60°)	698.6	20.4			
FH	(60°-80°)	1236.5	36.1			G1/1800
FVH	(80°-90°)	153.3	4.5			G2/225
BL	(0°-30°)	19.5	0.6	B0/110		
BM	(30°-60°)	200.2	5.8	B0/220		
BH	(60°-80°)	336.8	9.8	B1/500		G1/500
BVH	(80°-90°)	54.1	1.6			G1/100
UL	(90°-100°)	130.8	3.8		U3/500	
UH	(100°-180°)	549.2	16.0		U4/1000	

BUG Rating: B1-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
2.5°	27.2	27.6	27.6	27.6	28.4	28.8	28.4	27.2	25.7	24.9	24.2
5°	39.5	40.3	39.9	39.9	39.1	39.1	38.0	37.2	36.5	33.8	31.1
7.5°	54.9	54.1	53.7	53.0	53.3	51.4	49.9	49.9	48.7	46.0	41.8
10°	71.0	71.0	69.8	69.4	68.7	67.9	65.2	63.7	63.7	59.1	54.1
12.5°	88.6	88.3	88.6	87.9	86.7	84.8	81.7	78.3	76.4	72.1	64.8
15°	100.1	99.8	99.8	99.4	98.6	96.7	94.4	90.9	85.9	81.7	74.8
17.5°	112.4	111.7	111.7	109.7	108.2	105.9	104.0	100.5	94.4	86.7	80.2
20°	125.9	125.9	125.9	123.2	120.1	117.0	114.3	111.3	106.7	95.2	85.9
22.5°	138.5	138.9	138.5	135.8	133.1	128.2	123.9	120.1	115.5	104.0	92.9
25°	150.8	151.6	151.2	151.2	147.7	141.2	135.4	129.7	126.6	115.1	99.8
27.5°	161.5	161.9	162.3	164.2	162.3	155.0	145.8	138.9	136.6	123.9	105.5
30°	171.9	173.0	173.0	175.0	174.6	166.5	155.4	147.7	143.1	130.8	111.3
32.5°	181.9	182.6	183.0	187.6	187.2	176.5	166.9	158.5	150.8	141.6	121.2
35°	217.9	216.8	222.5	226.0	223.3	213.7	202.2	186.5	175.7	165.0	143.1
37.5°	285.1	284.3	284.3	276.6	265.9	254.8	251.7	235.2	222.2	208.3	178.4
40°	287.0	287.0	288.2	296.6	302.0	287.8	274.3	258.2	255.5	241.3	204.9
42.5°	315.0	318.1	321.2	326.9	336.5	327.3	311.9	286.2	274.0	259.4	228.3
45°	362.6	367.2	365.7	368.0	365.7	357.6	356.5	342.3	323.8	295.8	254.0
47.5°	441.3	438.6	437.0	446.2	461.2	446.2	442.8	420.1	384.8	349.2	301.6
50°	634.6	623.1	635.0	633.1	630.4	616.6	606.2	583.6	526.0	468.1	399.4
52.5°	893.6	874.8	885.6	892.9	885.2	865.6	834.5	790.4	712.9	638.1	547.5
55°	1270.0	1243.9	1247.4	1256.6	1262.0	1217.5	1173.0	1075.5	959.2	843.7	745.5
57.5°	1685.6	1638.8	1669.5	1618.0	1596.9	1517.5	1479.9	1381.3	1244.7	1090.5	932.0
60°	1919.6	1914.6	1908.9	1869.0	1846.7	1757.7	1669.5	1577.0	1454.6	1272.3	1087.0
62.5°	2021.3	2032.1	2023.6	2002.9	1982.9	1904.7	1751.2	1641.5	1542.1	1354.8	1169.9
65°	2093.1	2099.2	2085.0	2037.0	1982.9	1913.1	1749.3	1637.2	1546.3	1357.5	1173.3
67.5°	2011.0	2012.1	1994.8	1932.7	1822.9	1761.5	1602.7	1504.9	1415.8	1254.7	1082.4
70°	1656.4	1659.9	1649.1	1593.9	1501.8	1448.5	1295.4	1194.8	1127.7	1016.4	889.4
72.5°	1291.1	1306.1	1290.8	1268.9	1181.4	1141.9	1039.0	957.7	895.9	791.2	688.7
75°	970.8	974.2	974.6	950.0	904.0	895.2	824.6	770.8	717.1	631.2	556.0
77.5°	704.1	719.4	714.1	709.8	649.6	653.1	625.0	593.2	559.4	502.3	448.5
80°	467.3	475.4	465.8	468.1	460.1	458.1	432.0	410.6	389.8	363.4	342.3
82.5°	340.7	339.2	338.4	334.2	328.1	329.2	316.2	289.7	264.8	259.4	239.8
85°	315.0	313.9	312.7	305.0	292.0	283.9	276.6	265.9	250.6	226.4	201.1
87.5°	275.5	275.9	273.2	265.1	256.7	254.4	248.6	241.7	234.1	216.0	193.8
90°	226.8	225.6	226.0	221.4	222.9	222.2	213.3	204.9	201.8	186.5	173.4
92.5°	209.5	208.3	208.7	205.3	199.9	198.8	189.2	178.8	174.2	164.6	154.6
95°	175.0	175.0	173.4	171.9	169.2	165.4	160.4	153.5	150.0	142.4	132.4
97.5°	147.0	145.4	146.6	143.9	141.6	140.0	136.2	129.3	125.9	120.1	112.4
100°	136.6	136.6	136.2	135.1	129.3	126.2	122.0	115.5	112.8	107.8	102.1
102.5°	130.8	130.5	130.1	128.9	123.6	118.2	112.8	109.0	105.9	101.7	95.5
105°	119.7	119.7	120.5	120.1	116.3	112.8	107.1	103.6	100.5	96.3	90.6
107.5°	118.6	118.2	118.2	113.6	108.6	106.7	102.4	99.4	96.7	92.5	85.9
110°	135.8	136.6	137.7	130.1	118.2	113.2	107.1	103.6	100.5	95.2	88.3

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	178.0	*178.0*	177.3	173.0	152.3	138.5	135.4	126.6	121.6	113.6	104.0
115°	160.0	*160.4*	160.0	161.2	159.6	142.4	145.4	130.8	139.3	120.5	114.0
117.5°	139.7	*139.3*	137.7	138.1	139.7	150.8	126.6	123.2	126.6	109.7	104.0
120°	194.9	*191.5*	194.9	180.7	178.4	180.3	166.5	163.8	149.3	128.9	113.6
122.5°	287.0	*281.6*	289.3	284.3	288.2	275.5	262.1	250.9	234.8	200.7	170.0
125°	324.2	*323.1*	321.2	314.2	308.1	302.7	305.0	309.3	300.4	272.8	237.1
127.5°	238.7	*241.7*	240.6	254.4	267.8	264.8	256.7	260.5	265.1	263.6	242.5
130°	190.3	*193.0*	194.5	208.0	219.5	219.5	206.4	203.0	206.8	214.9	206.8
132.5°	166.9	*167.7*	168.4	173.0	182.6	187.2	179.2	173.8	175.3	179.6	172.7
135°	150.4	*150.0*	148.9	145.8	146.6	151.2	154.6	153.9	152.7	152.7	148.9
137.5°	130.5	*130.1*	130.1	125.5	123.6	127.4	132.4	137.0	133.9	129.7	125.1
140°	108.6	*108.2*	108.6	111.3	112.0	112.4	115.1	115.1	115.1	114.7	112.8
142.5°	90.2	*90.6*	91.3	98.2	101.7	101.7	98.2	95.2	94.8	97.1	97.5
145°	110.9	*110.9*	111.3	110.9	108.6	106.3	104.0	104.0	101.7	96.3	93.6
147.5°	99.0	*100.5*	99.4	100.5	101.3	101.7	101.3	102.4	102.8	99.8	95.5
150°	77.9	*77.5*	76.7	77.9	79.8	82.1	82.9	83.6	84.0	84.0	84.0
152.5°	67.5	*67.9*	67.5	68.7	69.8	70.2	71.4	71.4	71.8	71.4	70.6
155°	65.6	*65.6*	65.6	65.6	66.0	66.8	68.3	69.1	68.3	67.1	65.2
157.5°	61.0	*61.0*	61.0	61.4	62.2	62.9	64.1	64.8	64.8	64.1	62.5
160°	58.3	*58.3*	58.3	58.3	59.1	59.9	60.6	61.4	61.4	61.0	59.9
162.5°	55.3	*55.3*	55.3	55.6	56.4	57.2	57.9	58.7	58.3	58.3	57.6
165°	54.9	*54.9*	54.9	55.3	56.0	57.2	57.6	57.6	57.9	57.9	57.9
167.5°	56.4	*56.4*	56.8	56.8	57.6	57.9	58.7	59.1	59.5	59.1	59.1
170°	58.7	*58.7*	58.7	59.1	59.5	59.5	59.9	59.9	60.2	60.2	60.2
172.5°	61.8	*61.8*	61.8	61.8	61.4	61.4	61.4	61.4	61.8	61.4	61.8
175°	65.2	*65.2*	65.2	64.8	64.5	64.5	64.1	64.1	63.7	63.3	63.3
177.5°	65.6	*65.6*	65.6	65.6	65.2	64.8	64.8	64.5	64.1	64.1	64.1
180°	64.1	*64.1*	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
2.5°	23.4	22.6	20.7	19.2	18.0	16.5	15.3	14.2	13.4	13.0	12.7
5°	30.7	29.2	26.9	24.6	22.6	20.0	18.4	15.7	13.8	13.0	12.7
7.5°	40.3	39.1	38.0	37.6	36.8	33.4	28.4	24.6	23.8	23.0	23.8
10°	51.4	49.1	45.7	47.6	47.6	41.1	34.1	30.3	29.9	31.5	31.8
12.5°	61.8	58.7	54.5	54.1	49.9	41.1	33.8	29.9	29.5	29.9	30.3
15°	71.4	67.9	63.3	59.5	53.0	43.7	35.3	30.3	29.2	30.3	30.3
17.5°	76.7	73.3	66.8	59.5	51.8	43.4	34.9	29.5	26.9	25.3	25.3
20°	83.3	80.6	71.8	62.5	52.2	43.0	34.5	28.8	25.7	24.2	23.8
22.5°	89.0	85.9	76.4	66.4	54.5	43.0	33.4	28.4	25.7	24.2	23.8
25°	95.9	91.3	81.7	70.6	56.4	43.0	33.4	28.8	26.1	24.6	24.2
27.5°	100.5	95.2	85.9	73.7	58.7	43.7	34.5	29.2	26.1	24.6	24.6
30°	105.1	100.1	89.4	77.9	61.4	45.7	36.5	30.7	27.2	25.3	25.3
32.5°	114.3	107.8	94.8	81.3	63.7	47.2	38.4	32.2	28.4	26.5	26.5
35°	135.1	125.9	110.1	91.3	66.8	48.7	40.3	34.1	29.2	26.9	26.9
37.5°	166.5	155.0	135.8	110.1	74.4	51.0	41.8	34.9	29.9	28.0	27.6
40°	187.2	173.0	150.0	125.1	85.6	54.9	43.7	36.1	30.7	28.4	28.0
42.5°	212.2	194.9	164.2	129.7	91.3	62.9	47.6	38.0	31.8	28.8	28.4
45°	234.8	220.2	191.5	151.6	107.8	74.8	54.5	41.4	33.8	29.9	29.5
47.5°	280.9	258.2	219.9	178.8	128.5	92.9	66.4	46.8	36.8	31.5	30.7
50°	370.7	347.2	300.8	237.1	166.1	118.2	85.6	56.8	40.7	33.0	31.8
52.5°	503.4	460.4	408.6	322.7	235.6	170.7	121.2	80.2	48.3	34.5	32.6
55°	681.1	656.5	564.8	455.4	335.7	255.5	186.5	124.7	72.1	36.5	33.0
57.5°	884.8	836.1	752.4	616.2	448.9	325.4	252.1	185.7	106.3	42.6	34.9
60°	1016.0	965.4	869.5	731.7	546.4	387.9	287.4	206.8	120.5	43.7	36.5
62.5°	1100.8	1029.8	908.2	747.1	574.8	413.6	303.5	196.5	102.8	42.6	37.6
65°	*1113.9*	*1036.7*	*908.2*	*726.0*	*549.1*	*392.5*	*293.5*	*181.5*	*81.0*	*40.7*	*39.1*
67.5°	1036.7	953.1	846.4	665.7	492.7	336.5	252.1	148.1	61.4	39.5	38.8
70°	839.5	787.0	689.9	542.5	393.3	275.5	200.7	113.6	49.9	38.4	38.0
72.5°	641.5	603.6	535.6	422.8	303.1	212.6	153.1	89.4	44.9	37.6	37.2
75°	510.7	476.2	420.9	325.8	231.4	163.8	114.3	68.7	41.1	37.6	36.8
77.5°	421.3	391.0	341.1	258.2	168.8	122.4	86.7	55.6	40.3	37.6	37.2
80°	324.2	302.4	265.1	187.6	120.9	91.7	69.1	49.5	40.3	38.4	38.0
82.5°	229.8	221.4	193.4	146.2	101.7	79.8	63.7	48.7	41.1	39.1	38.8
85°	191.1	181.1	161.2	127.4	94.8	77.1	62.9	49.9	43.0	41.4	41.1
87.5°	184.2	177.7	158.1	123.2	90.9	73.7	60.2	48.7	43.0	42.2	42.6
90°	166.5	159.2	144.3	114.7	87.1	73.3	61.4	50.6	44.5	43.7	43.4
92.5°	151.2	147.0	133.9	110.9	89.8	76.0	64.8	55.3	50.3	48.7	48.7
95°	129.3	125.1	117.8	101.7	85.6	74.4	64.8	56.4	52.2	51.4	51.0
97.5°	110.1	107.4	101.3	88.6	76.0	66.8	58.3	51.8	48.3	47.2	47.2
100°	100.5	98.2	93.2	84.8	75.2	67.5	60.6	54.9	51.8	51.0	51.0
102.5°	93.6	91.7	87.1	81.0	72.5	66.4	60.6	55.6	52.2	51.4	51.8
105°	87.9	85.9	81.3	75.2	68.3	61.8	57.6	53.7	49.9	48.7	48.7
107.5°	83.6	81.7	77.9	71.8	66.0	60.2	55.6	52.6	49.5	48.7	48.7
110°	85.6	82.9	77.1	70.6	65.6	60.6	56.8	53.7	51.4	50.3	50.3

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

Scaled Data Report

REPORT NUMBER: P1045820
CATALOG NUMBER: FFX-CLB-30-750-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	100.1	95.9	86.3	77.1	70.6	64.8	60.6	56.4	54.5	53.0	53.0
115°	109.7	105.5	95.9	84.8	75.2	67.1	61.4	57.9	55.6	57.2	56.4
117.5°	100.1	97.1	89.8	81.7	74.1	67.1	62.2	59.9	58.3	60.2	61.0
120°	110.1	104.4	98.6	89.4	75.2	65.6	62.2	61.4	61.4	59.9	59.9
122.5°	157.3	147.7	126.2	110.5	90.9	80.2	73.7	67.5	61.4	59.1	58.7
125°	220.2	202.2	175.0	147.3	120.5	97.8	79.0	67.5	61.8	58.3	57.6
127.5°	231.8	216.0	191.1	157.7	121.2	95.5	78.7	69.8	63.3	59.5	59.1
130°	195.7	188.0	165.8	137.0	109.0	89.0	77.9	69.8	63.7	60.2	59.5
132.5°	166.1	160.8	140.0	117.0	97.1	82.5	72.5	63.7	57.9	54.9	54.1
135°	142.7	139.3	121.2	104.7	89.8	77.9	67.5	59.1	54.5	52.6	52.2
137.5°	122.4	118.9	106.7	95.2	83.6	73.3	64.8	57.6	53.3	52.2	51.8
140°	109.7	106.7	99.0	86.7	75.6	64.8	58.7	54.1	51.8	51.0	50.6
142.5°	95.5	92.1	83.6	74.8	67.1	58.7	54.5	52.6	51.4	50.6	50.3
145°	90.6	88.3	78.7	70.6	63.3	59.1	56.8	54.1	51.8	50.3	49.9
147.5°	91.7	89.0	80.6	72.9	66.4	61.8	57.9	54.1	51.0	49.5	49.1
150°	82.1	81.3	76.4	70.2	64.1	59.1	55.3	52.2	50.3	49.9	49.9
152.5°	68.7	68.3	66.0	62.5	58.3	54.5	51.8	50.3	50.3	51.0	51.4
155°	64.5	63.3	61.8	59.5	56.0	53.3	51.4	50.6	51.0	51.8	51.8
157.5°	62.2	61.0	59.5	57.6	55.6	53.3	51.8	51.4	52.2	53.0	53.0
160°	59.1	58.3	57.2	55.3	53.7	52.6	51.8	51.8	52.2	52.6	52.6
162.5°	57.2	56.4	55.3	54.1	53.3	53.0	52.6	52.2	52.6	53.0	53.0
165°	57.2	56.8	55.3	54.1	53.7	53.7	53.7	53.7	53.7	53.3	53.3
167.5°	58.7	58.3	57.2	56.4	56.0	56.4	56.4	56.0	55.6	54.9	54.9
170°	60.2	59.9	59.5	59.1	58.7	59.1	59.1	59.1	58.7	58.7	58.3
172.5°	61.8	61.4	61.0	60.6	60.6	60.6	61.0	61.4	61.4	61.4	61.4
175°	63.3	63.3	62.5	62.2	62.2	62.2	62.5	62.5	62.9	62.9	62.9
177.5°	64.1	64.1	64.1	64.1	64.5	64.1	64.1	63.7	63.7	63.7	63.7
180°	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1

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

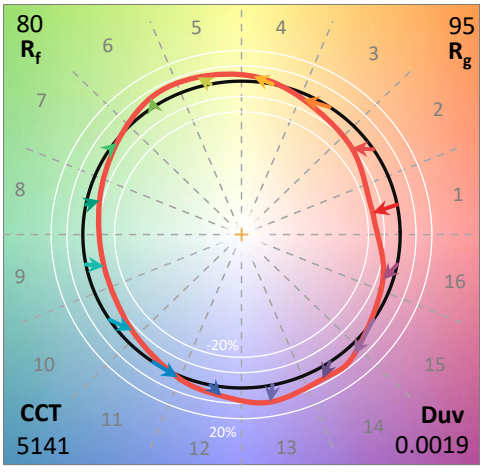
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

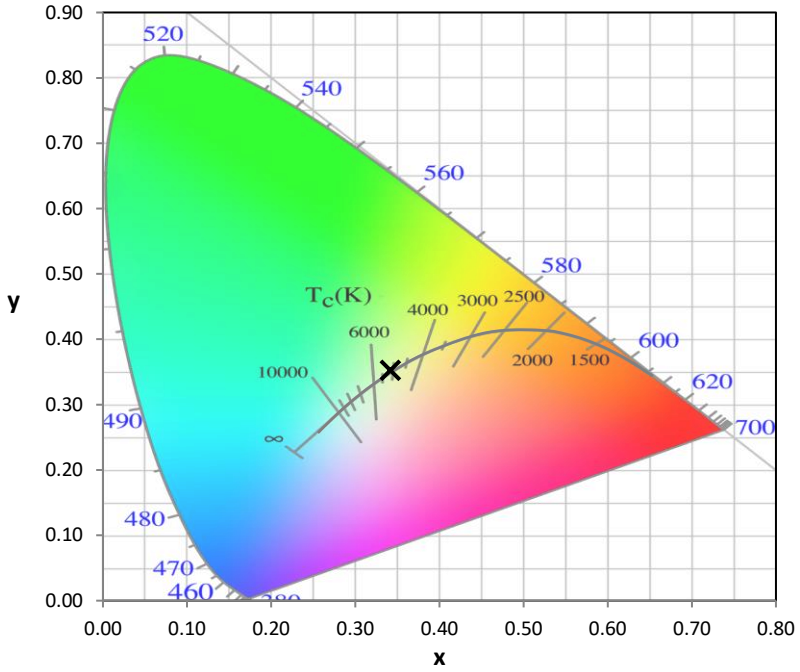
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-10

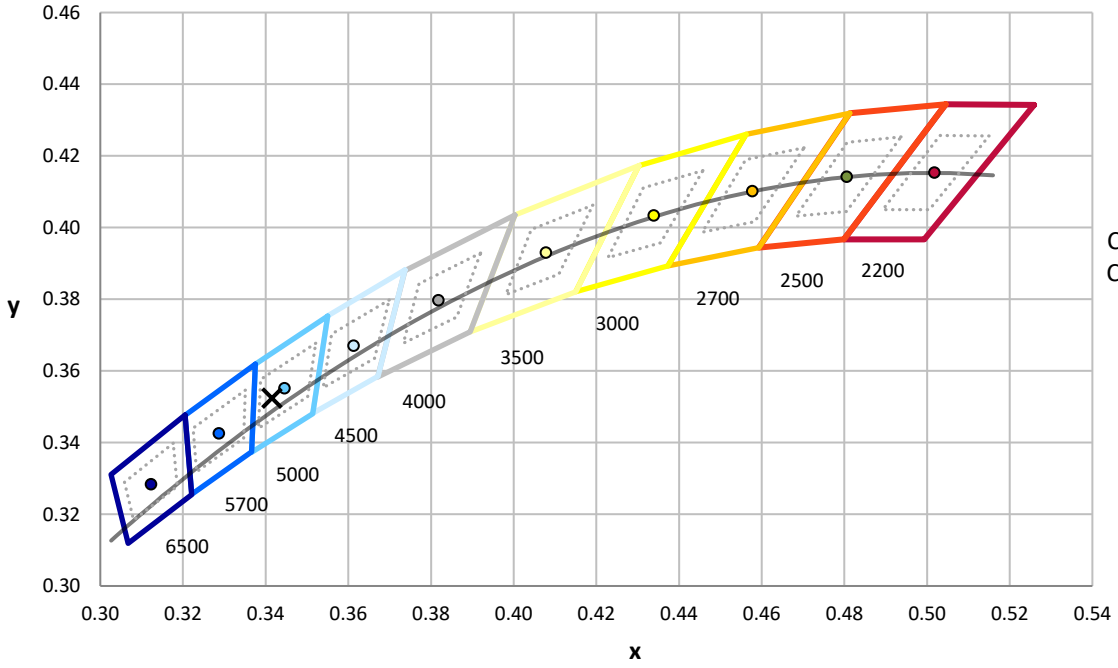
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

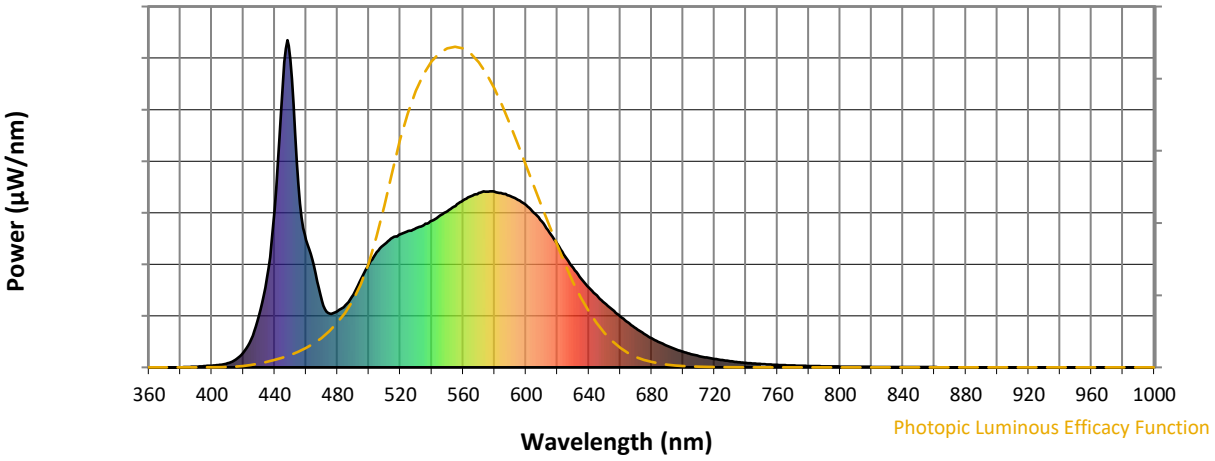


CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

Photopic Flux vs. Wavelength

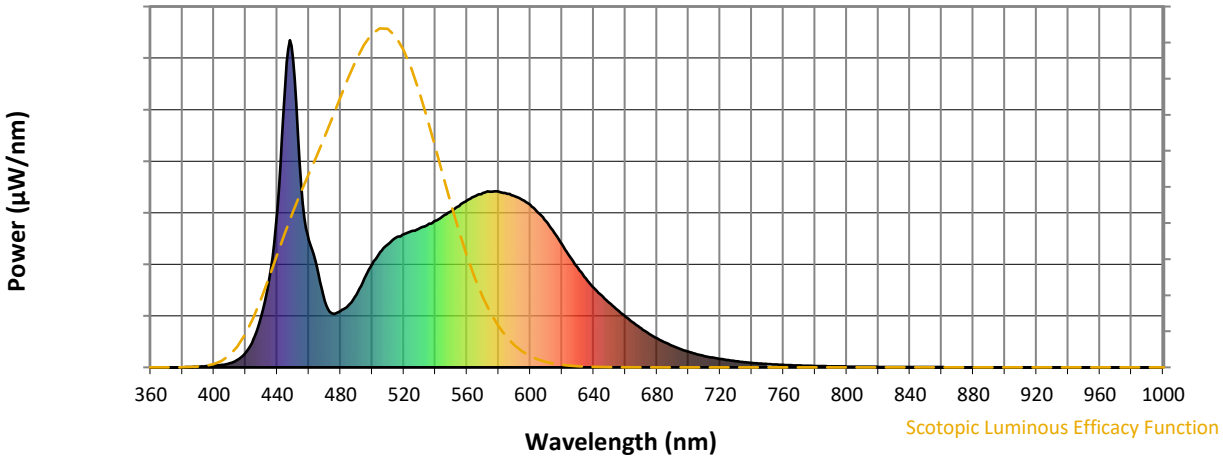


Photopic Lumens: NR

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

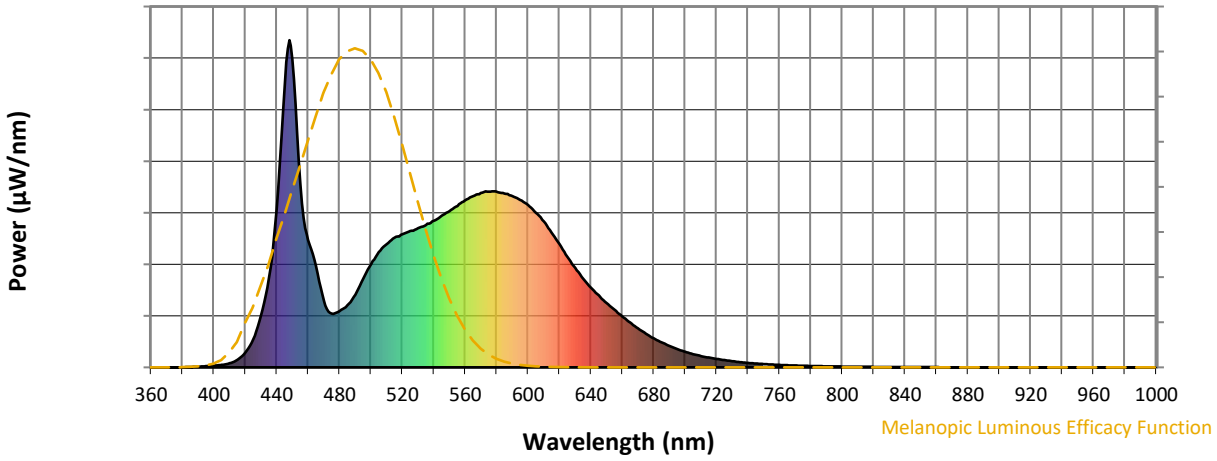


Scotopic Lumens: NR **S/P: 1.92**

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
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485	190	NR	615	412	NR	745	12	NR	875	0	NR			

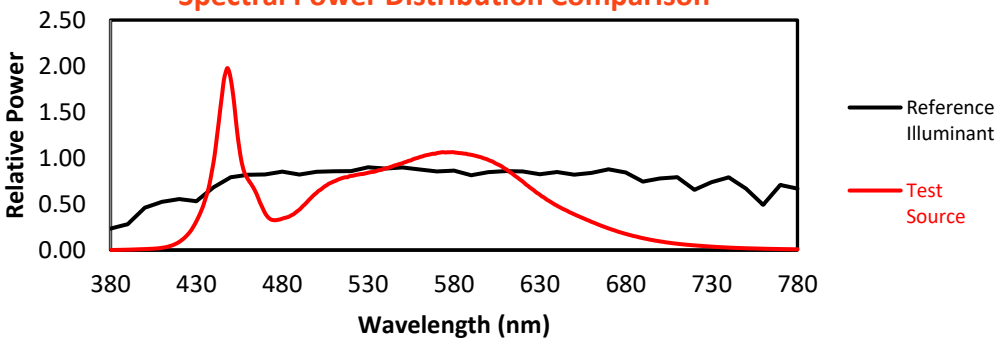
REPORT NUMBER: SP1-2501-332-10

TM-30-18

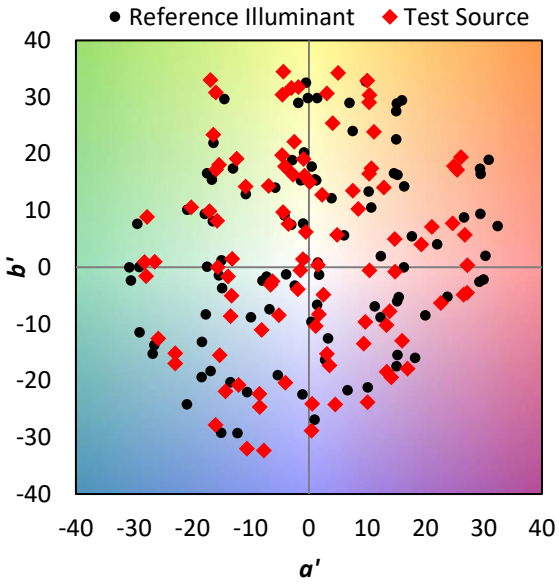
Summary

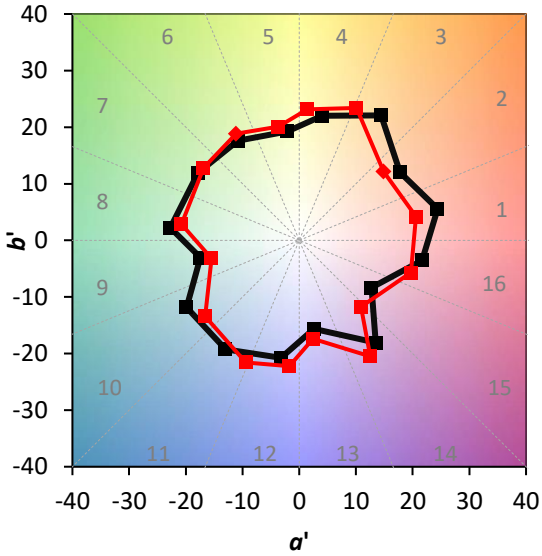
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R_g = 95.3
CIE R_a = 78.0
R_9 = -20.0

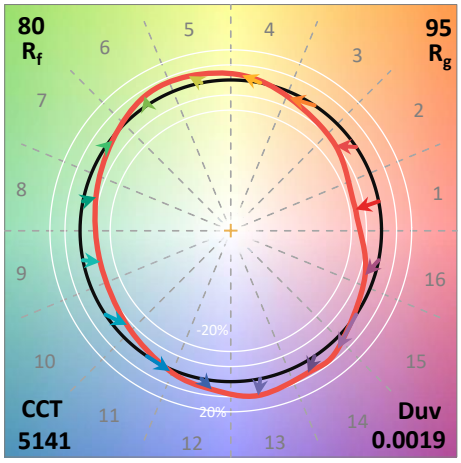
Spectral Power Distribution Comparison

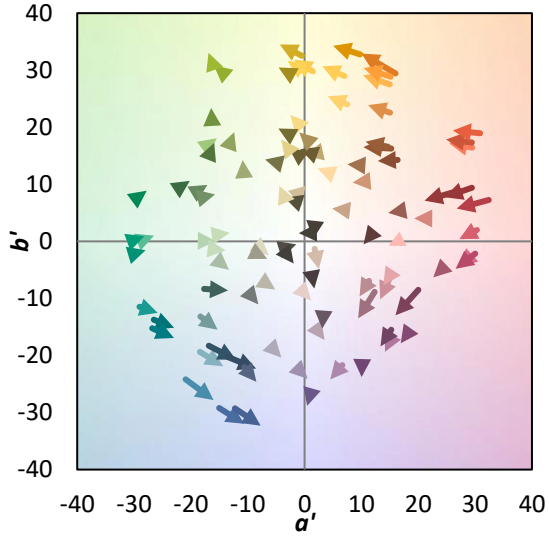


Color Vector Graphics







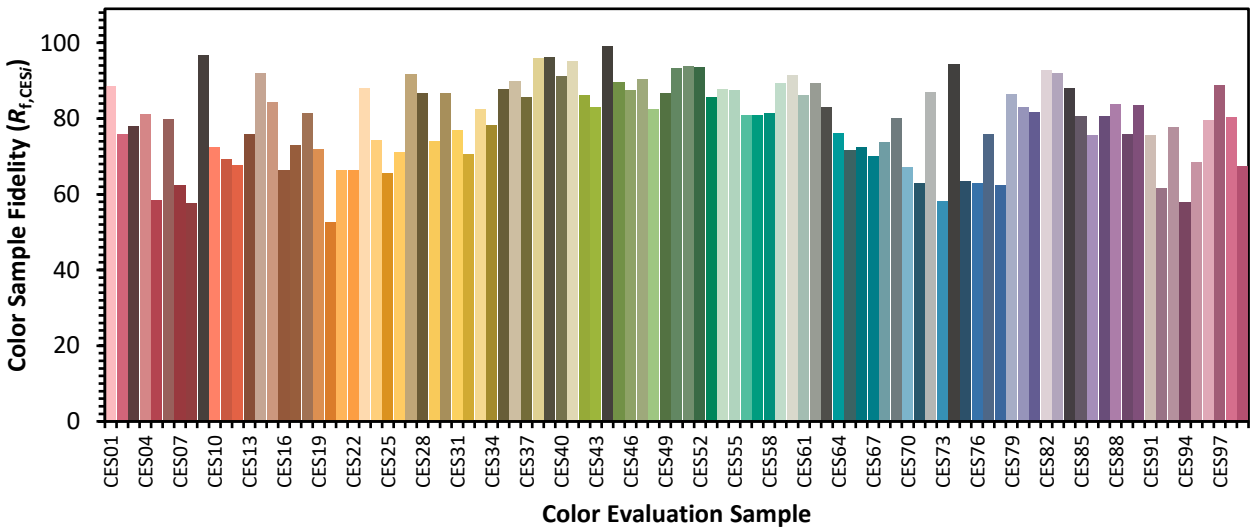


REPORT NUMBER: SP1-2501-332-10

TM-30-18

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

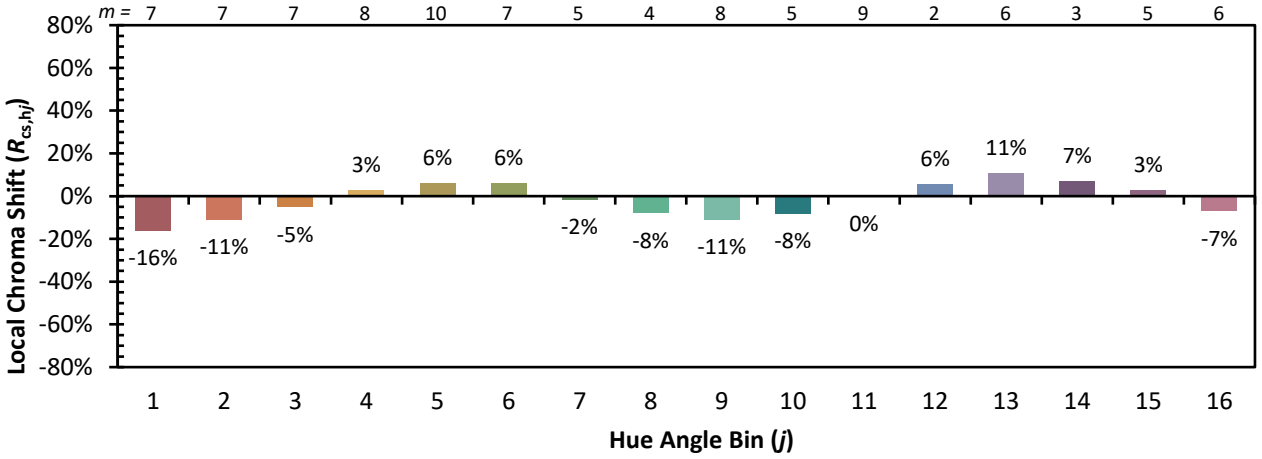
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CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 76
CES03 = 30	CES28 = 87	CES53 = 86	CES78 = 63
CES04 = 69	CES29 = 74	CES54 = 88	CES79 = 86
CES05 = 46	CES30 = 87	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 77	CES56 = 81	CES81 = 82
CES07 = 39	CES32 = 70	CES57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

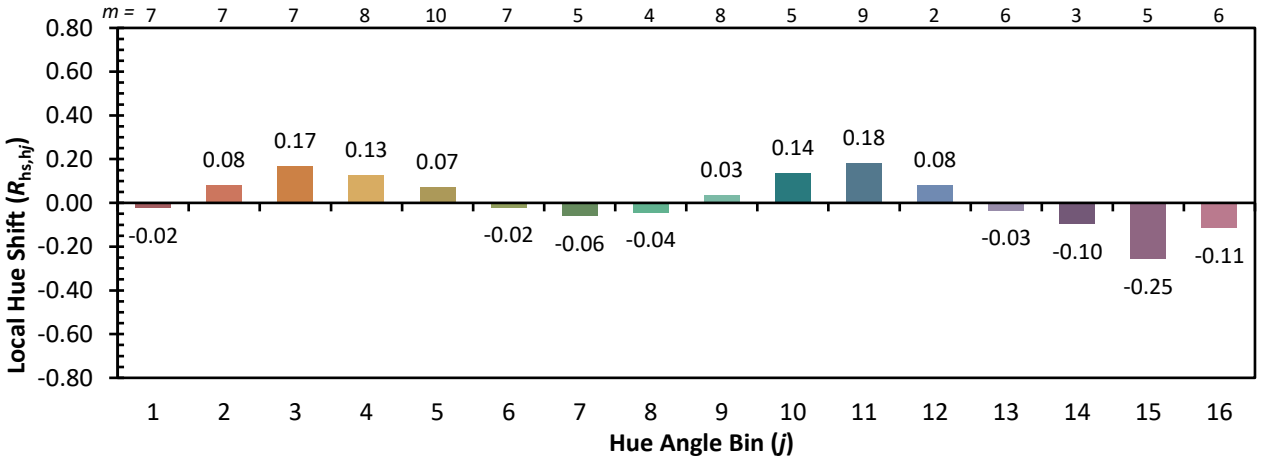


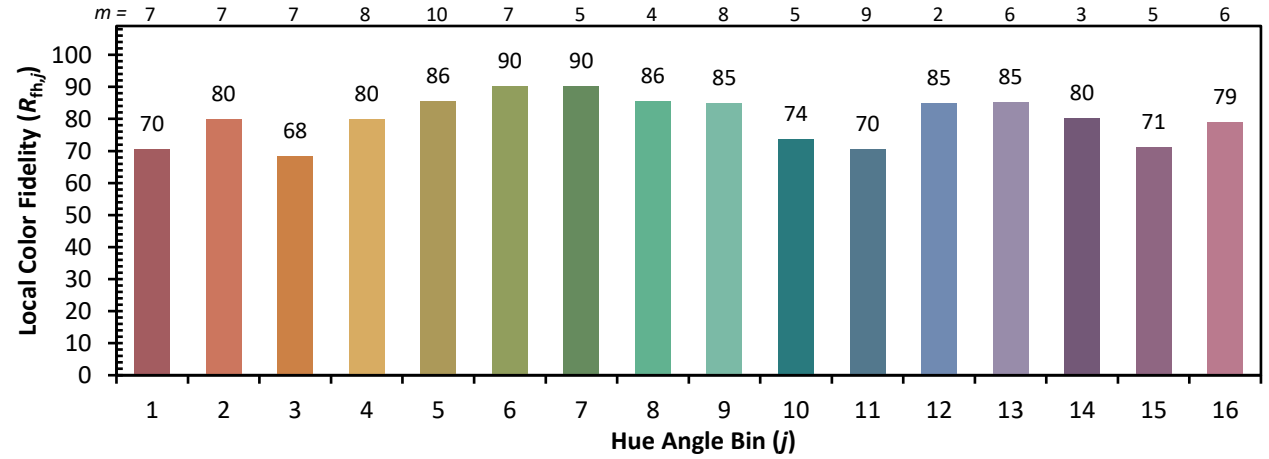
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Color Rendition by Hue-Angle Bin



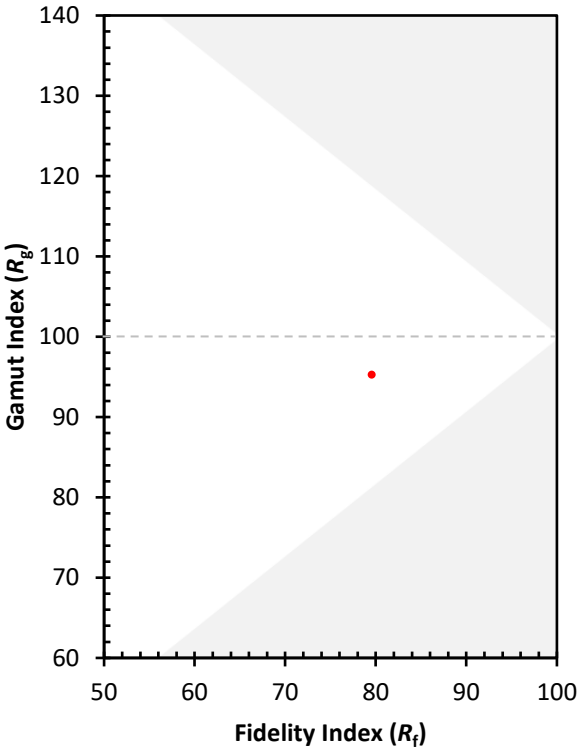


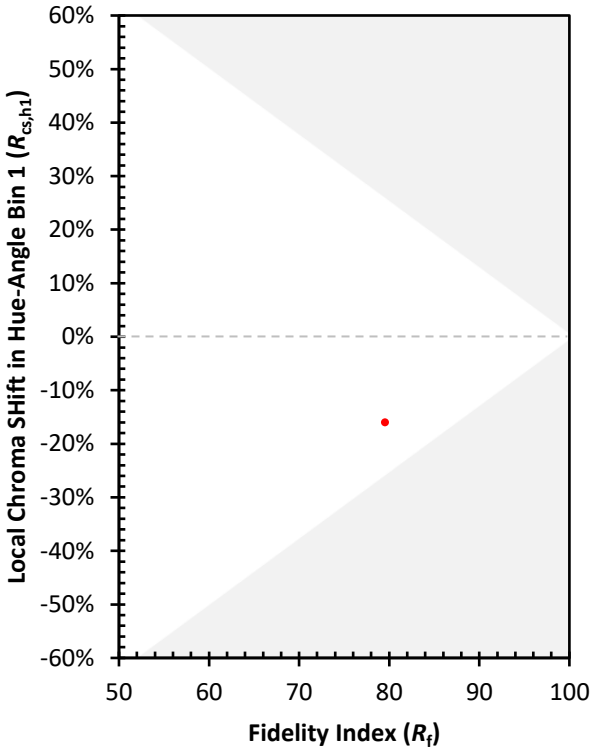


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Measure Comparisons





(END OF REPORT)