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: P1045757

Luminaire Tested: **FFX-CLB-30-730-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:	P1045757
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-730-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3172.3 lumens
Efficiency:	N/A
Efficacy:	103.7 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):	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

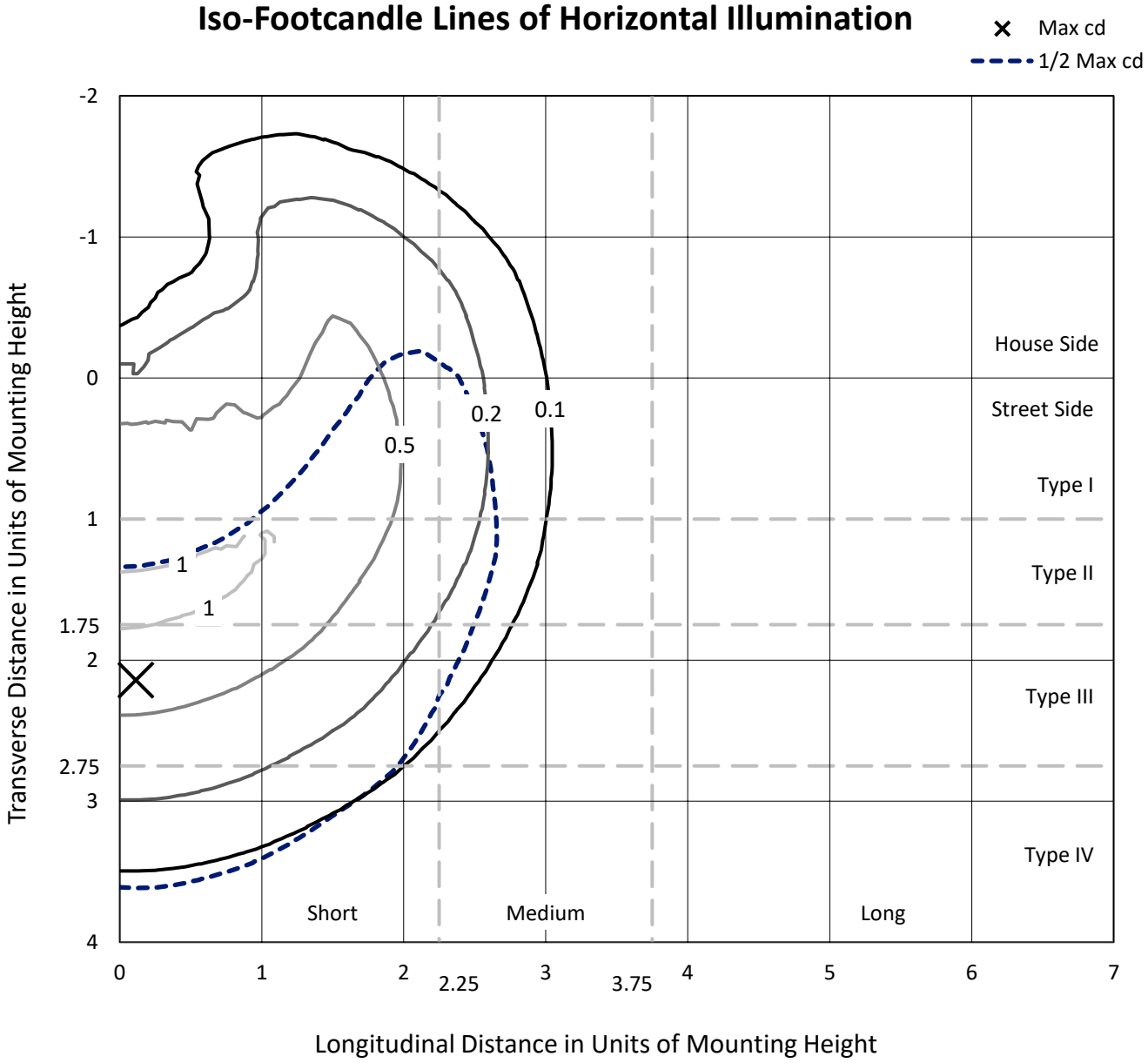


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Iso-Footcandle Lines of Horizontal Illumination



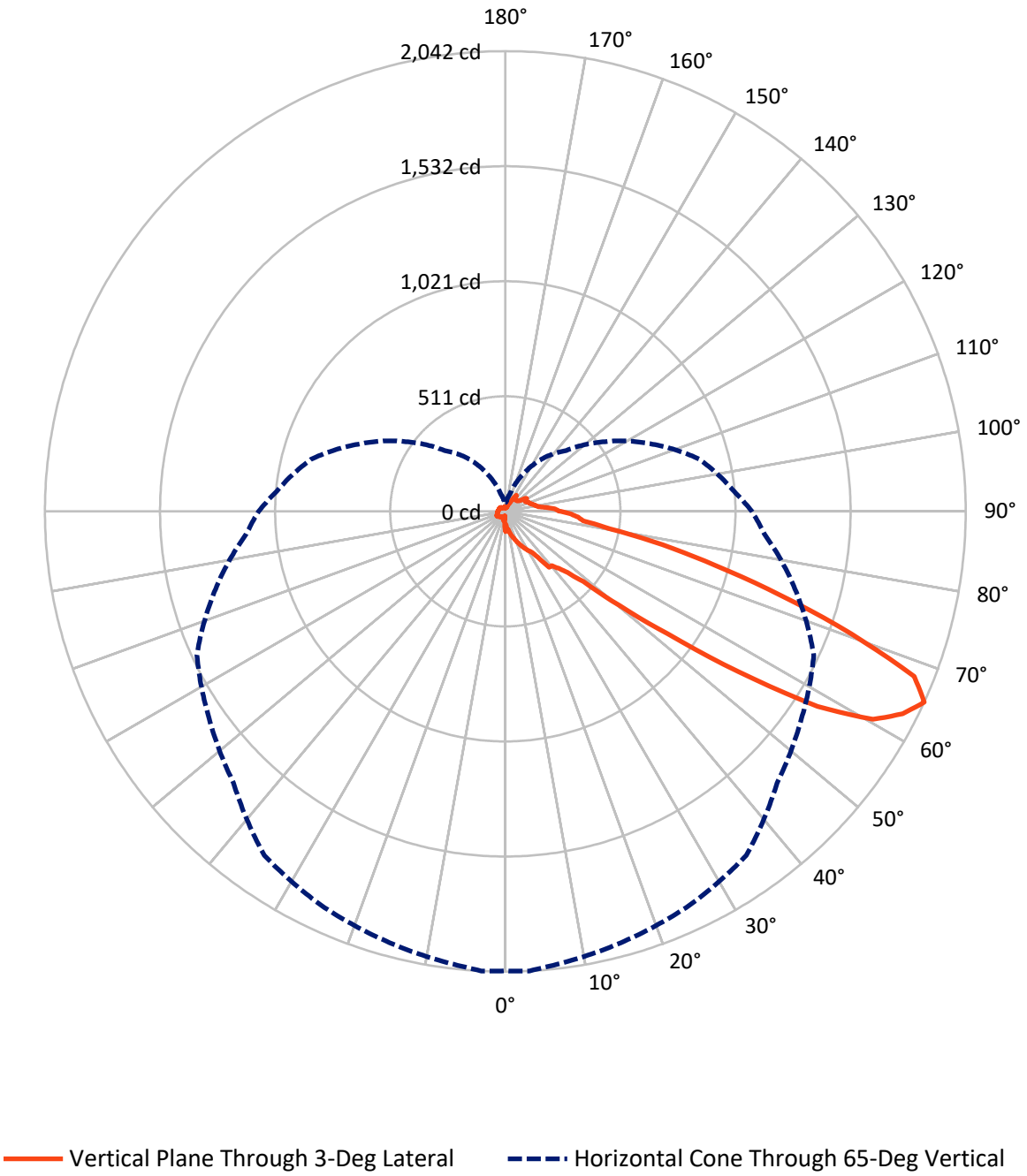
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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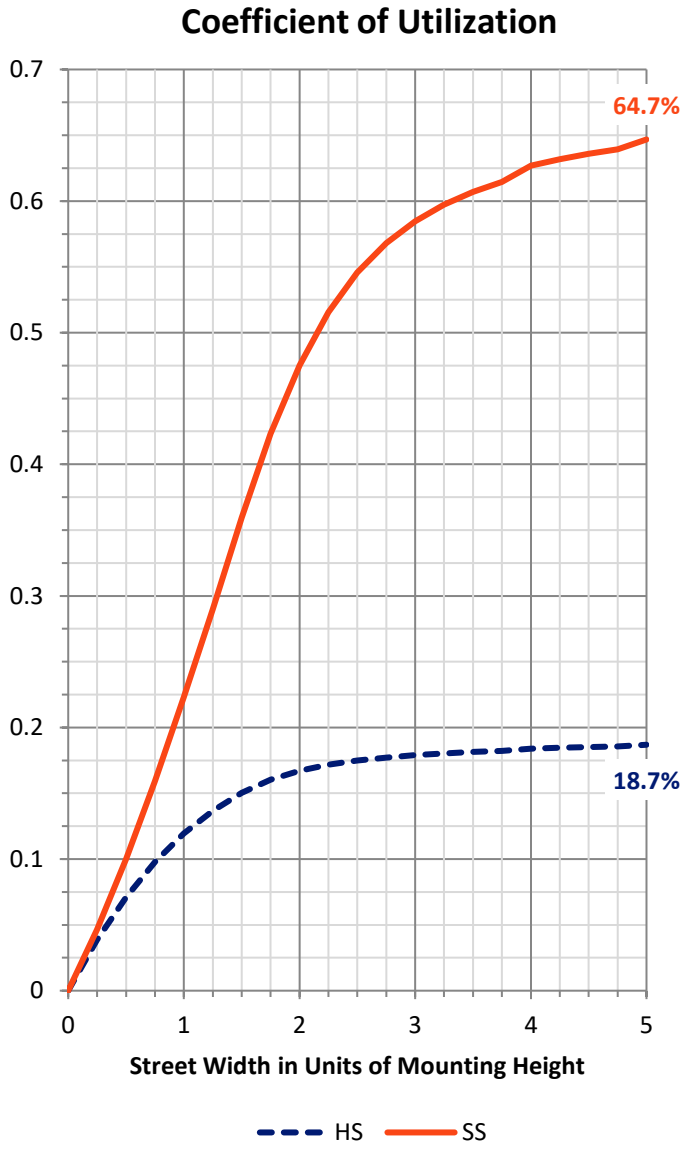
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.7	133.4	747.2
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	2140.2	285.0	2425.1
	% Fixture	67.5	9.0	76.4
Total	Lumens	2753.9	418.4	3172.3
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.2
10°-20°	21.6	0.7
20°-30°	48.2	1.5
30°-40°	97.5	3.1
40°-50°	195.8	6.2
50°-60°	628.3	19.8
60°-70°	1002.2	31.6
70°-80°	545.2	17.2
80°-90°	209.5	6.6
90°-100°	124.9	3.9
100°-110°	82.9	2.6
110°-120°	66.0	2.1
120°-130°	55.0	1.7
130°-140°	37.9	1.2
140°-150°	30.6	1.0
150°-160°	13.7	0.4
160°-170°	5.6	0.2
170°-180°	1.9	0.1
0°-90°	2753.9	86.8
0°-180°	3172.3	100.0



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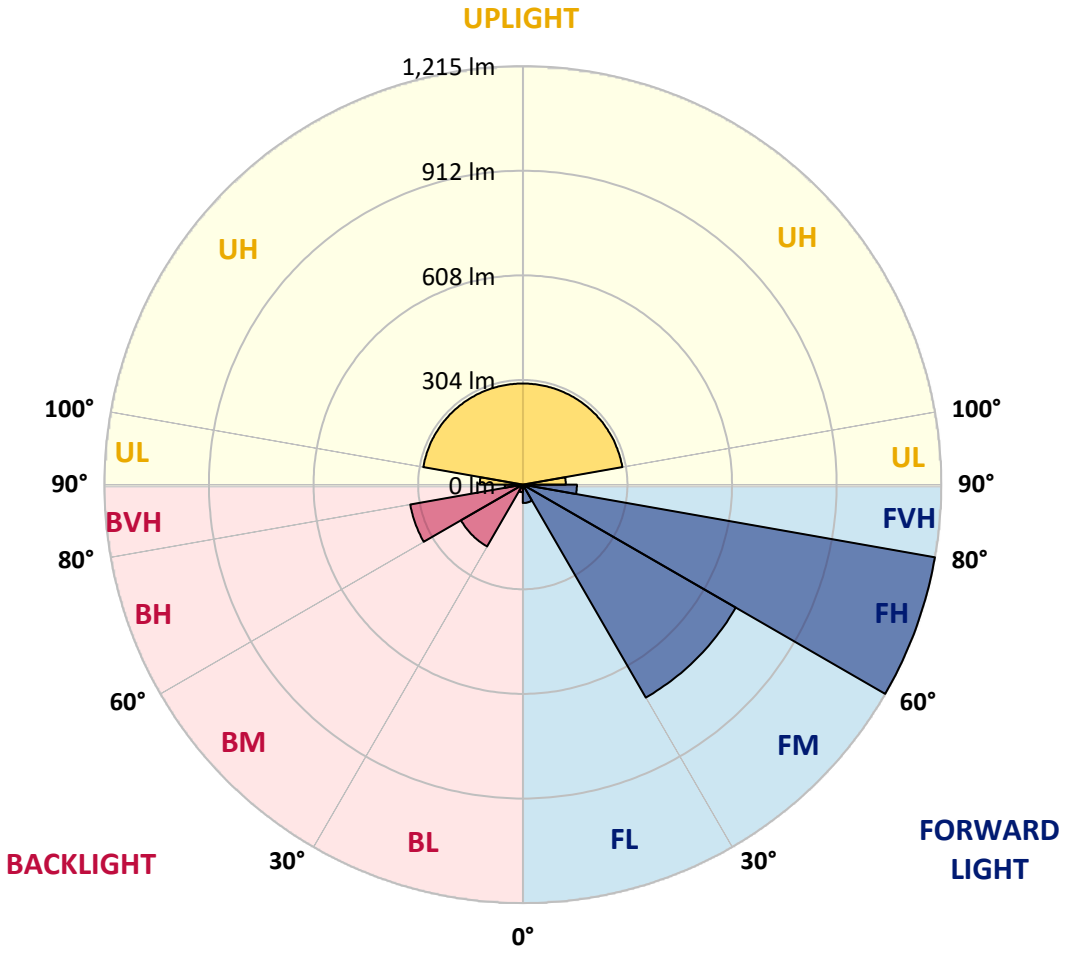
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	53.5	1.7			
FM	(30°-60°)	714.2	22.5			
FH	(60°-80°)	1215.4	38.3			G1/1800
FVH	(80°-90°)	157.0	5.0			G2/225
BL	(0°-30°)	22.0	0.7	B0/110		
BM	(30°-60°)	207.4	6.5	B0/220		
BH	(60°-80°)	331.9	10.5	B1/500		G1/500
BVH	(80°-90°)	52.4	1.7			G1/100
UL	(90°-100°)	124.9	3.9		U3/500	
UH	(100°-180°)	293.5	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°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
2.5°	58.0	57.6	58.7	63.8	76.9	81.3	77.6	71.4	70.3	76.9	82.0
5°	79.1	78.4	77.6	72.5	67.4	70.0	77.3	79.1	71.8	58.3	49.6
7.5°	80.2	79.5	79.8	79.8	78.7	74.0	68.5	71.1	77.3	68.9	54.3
10°	89.3	88.9	88.9	88.6	87.5	86.0	85.7	80.2	70.7	63.4	60.5
12.5°	104.2	104.2	103.9	103.5	102.4	99.9	96.6	92.2	89.3	80.5	71.4
15°	116.3	115.2	115.9	114.8	113.0	111.5	107.5	102.8	94.0	88.2	80.2
17.5°	127.9	127.9	128.3	126.5	124.3	123.2	118.8	112.6	104.2	94.0	86.4
20°	142.5	141.4	141.4	139.6	137.0	133.4	129.4	123.9	117.0	103.1	92.9
22.5°	156.4	156.7	156.7	153.8	149.8	146.5	141.1	134.5	127.9	113.7	100.6
25°	172.0	171.7	171.3	170.9	166.9	161.1	154.2	147.2	142.5	128.7	110.4
27.5°	186.6	185.9	185.5	187.3	183.7	177.9	167.7	159.3	154.2	140.0	119.5
30°	202.6	202.3	202.3	203.0	201.6	192.4	181.5	171.7	164.4	150.2	128.3
32.5°	216.9	216.1	216.5	219.4	219.1	207.4	197.5	185.5	176.4	165.1	141.1
35°	251.9	250.4	252.6	257.0	260.2	247.8	234.4	215.8	201.9	190.3	165.5
37.5°	314.9	315.3	316.0	310.2	297.8	288.7	282.1	267.2	250.0	230.3	201.2
40°	317.5	317.1	318.9	327.7	332.8	317.1	301.8	284.3	279.9	263.2	226.0
42.5°	347.0	344.8	346.6	355.0	361.9	352.4	339.0	309.4	293.4	278.5	247.8
45°	389.3	386.7	390.0	391.4	390.0	379.8	382.0	357.9	343.0	312.7	270.1
47.5°	453.8	465.4	467.3	467.6	482.2	468.4	459.6	436.6	402.7	366.7	318.2
50°	637.1	656.1	649.5	643.3	644.4	633.8	621.8	590.1	544.5	483.7	414.4
52.5°	909.4	902.1	903.2	907.2	917.4	870.4	850.0	802.2	728.6	655.7	555.8
55°	1242.5	1254.9	1254.2	1267.3	1265.5	1214.8	1150.3	1070.1	962.9	856.2	738.1
57.5°	1654.4	1632.5	1617.9	1593.9	1573.1	1504.2	1461.6	1374.8	1233.0	1072.7	921.0
60°	1885.4	1873.4	1869.8	1836.6	1808.2	1723.6	1635.8	1541.7	1430.9	1241.4	1069.4
62.5°	1972.2	1978.0	1972.9	1951.4	1932.5	1858.5	1710.9	1608.4	1509.3	1327.1	1145.9
65°	2038.9	2042.2	2030.5	1981.7	1929.9	1863.6	1704.7	1603.7	1509.7	1330.3	1153.2
67.5°	1957.2	1956.5	1947.4	1877.1	1789.6	1724.0	1579.6	1471.0	1391.2	1241.4	1070.5
70°	1625.2	1627.4	1629.2	1577.5	1481.6	1432.8	1286.6	1193.3	1124.4	995.0	872.2
72.5°	1272.4	1278.9	1281.9	1241.4	1170.3	1120.0	1022.4	952.4	888.2	785.4	688.9
75°	957.1	963.7	961.9	936.7	886.8	872.9	825.5	765.8	712.2	632.4	550.7
77.5°	718.0	712.6	711.1	686.7	637.5	641.1	627.6	593.4	551.8	504.8	447.9
80°	475.6	470.9	461.4	469.8	465.8	454.1	431.9	414.4	398.0	369.9	339.0
82.5°	349.9	348.4	346.6	341.1	337.5	334.6	324.7	296.7	277.0	261.0	242.4
85°	327.3	322.9	323.7	314.2	302.9	292.7	285.0	273.0	257.7	232.5	205.6
87.5°	285.7	285.7	283.6	277.0	265.7	263.2	257.7	249.3	240.2	220.9	196.8
90°	237.6	236.2	236.2	235.8	233.3	231.4	220.9	213.2	209.2	189.9	173.1
92.5°	219.4	218.7	217.2	215.4	208.1	206.7	196.1	186.2	177.5	165.5	152.4
95°	178.2	179.7	176.4	176.0	172.4	170.2	161.8	157.1	151.3	141.4	129.4
97.5°	150.5	148.3	148.7	145.4	141.8	140.3	135.2	128.3	122.8	115.2	106.4
100°	138.1	137.8	137.0	134.5	129.4	126.1	120.6	114.1	108.6	101.7	94.4
102.5°	130.1	129.8	129.4	127.2	121.4	119.5	114.4	109.3	104.6	98.4	88.9
105°	122.1	121.7	121.0	118.5	114.8	113.0	108.2	105.3	100.6	95.1	86.0
107.5°	114.8	114.8	114.4	111.5	109.3	107.9	103.1	100.6	95.5	90.8	82.0
110°	111.2	111.2	110.8	108.6	104.2	102.1	97.7	94.4	89.7	84.9	78.0

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	107.2	*107.5*	107.5	108.2	97.7	93.7	90.0	87.5	83.5	79.1	73.3
115°	98.0	*98.4*	98.0	101.7	98.0	92.6	90.4	86.0	80.9	74.0	67.8
117.5°	98.8	*98.8*	99.5	101.3	99.5	94.4	89.7	84.2	79.8	72.9	67.4
120°	111.9	*111.2*	111.2	107.5	106.8	102.1	98.8	92.9	85.7	78.7	71.1
122.5°	107.5	*107.2*	107.5	101.7	101.3	100.2	99.1	98.0	88.6	84.6	74.7
125°	86.0	*85.3*	84.9	82.7	86.4	83.8	83.1	85.7	79.5	75.8	70.3
127.5°	76.9	*76.2*	75.8	75.1	77.3	72.9	72.2	72.9	68.2	63.8	60.5
130°	73.6	*72.5*	72.5	75.1	78.4	74.7	70.7	67.8	66.0	63.1	57.6
132.5°	69.6	*69.6*	70.0	73.3	79.1	75.1	67.8	62.0	61.2	61.6	59.0
135°	68.5	*68.2*	68.5	67.4	67.1	64.9	61.6	56.9	55.8	58.7	55.8
137.5°	70.3	*70.0*	69.6	66.7	63.4	61.6	60.9	58.0	55.0	53.2	50.3
140°	69.6	*69.6*	69.3	68.5	66.3	62.7	62.0	59.0	56.1	52.8	49.2
142.5°	70.7	*71.8*	72.5	73.3	72.5	68.5	64.5	59.8	56.5	54.7	50.7
145°	87.1	*87.1*	87.1	85.7	83.1	79.8	76.9	73.6	71.1	65.2	59.8
147.5°	72.2	*72.2*	71.8	72.2	72.2	70.7	70.3	69.3	69.6	66.7	61.2
150°	49.9	*51.0*	51.0	52.8	53.6	52.8	52.8	53.6	52.5	52.1	49.2
152.5°	40.5	*40.1*	39.4	40.1	40.1	40.5	40.5	39.7	39.4	39.4	37.5
155°	35.7	*35.7*	35.7	35.4	34.6	35.0	35.4	35.4	34.3	33.5	32.1
157.5°	28.4	*28.1*	28.1	28.8	28.8	28.8	28.8	28.8	28.8	29.2	29.5
160°	24.1	*23.3*	23.7	23.7	24.1	24.4	24.1	24.4	24.4	24.8	24.4
162.5°	19.7	*19.3*	19.3	19.7	20.0	20.4	20.8	20.8	21.1	21.9	22.2
165°	17.5	*17.5*	17.5	17.9	17.9	18.2	18.6	19.0	19.7	20.8	21.1
167.5°	16.4	*16.4*	16.4	16.4	16.8	17.1	17.9	19.0	19.7	20.8	20.8
170°	16.0	*16.0*	16.4	16.4	16.4	16.8	18.2	19.3	19.7	20.0	20.0
172.5°	16.8	*16.8*	16.8	16.8	16.8	17.5	19.3	19.7	19.7	19.7	20.0
175°	17.5	*17.5*	17.1	17.1	17.5	17.9	18.2	20.0	20.8	21.1	21.9
177.5°	16.4	*16.4*	16.4	16.8	16.8	17.1	17.5	18.2	18.2	19.0	20.0
180°	18.2	*18.2*	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
2.5°	85.7	91.8	84.2	76.2	70.3	73.6	77.3	74.4	71.1	71.4	65.2
5°	51.4	52.8	53.6	46.7	38.6	43.0	52.5	49.2	37.9	21.1	18.2
7.5°	49.6	47.4	46.7	51.8	47.0	31.3	24.4	22.2	29.5	35.4	37.2
10°	58.7	56.1	50.7	41.6	36.8	34.6	33.9	32.4	28.1	21.9	20.8
12.5°	67.4	64.5	59.4	55.0	48.8	40.8	35.7	34.3	36.8	41.2	41.2
15°	76.2	72.2	65.6	59.8	55.0	46.3	39.7	33.9	33.2	34.3	34.3
17.5°	82.4	78.0	70.3	62.3	53.9	45.6	37.9	32.1	29.5	28.8	28.8
20°	88.6	84.6	75.4	66.7	56.5	46.7	37.9	31.7	28.8	27.7	27.3
22.5°	96.6	91.5	81.3	71.8	59.4	47.4	37.5	32.1	28.8	27.0	26.6
25°	105.7	99.9	88.2	76.9	62.3	48.1	37.9	32.4	29.2	27.0	26.6
27.5°	113.0	106.8	95.5	82.7	66.0	49.9	39.4	33.2	29.5	27.3	27.0
30°	121.4	114.8	102.1	88.9	70.3	52.8	42.3	35.4	31.0	28.1	28.1
32.5°	134.1	125.4	111.2	94.8	74.7	56.1	45.6	37.9	32.4	30.3	30.3
35°	154.9	146.2	127.2	106.1	79.5	59.4	48.1	40.5	34.3	31.3	31.3
37.5°	188.1	174.9	153.8	124.7	87.1	62.0	51.0	42.3	35.4	31.3	30.6
40°	207.4	192.8	166.2	138.5	96.6	65.2	53.2	43.7	36.1	31.7	31.3
42.5°	228.9	212.1	177.9	142.1	102.8	72.9	56.5	45.2	36.8	32.8	32.1
45°	251.5	235.5	204.5	161.5	117.4	83.5	62.0	48.1	39.0	34.3	33.5
47.5°	292.7	273.0	232.9	188.8	138.9	100.2	74.0	52.8	41.6	35.7	35.0
50°	385.3	367.0	311.3	245.3	173.1	124.3	92.6	62.7	45.6	36.8	35.7
52.5°	510.6	478.2	415.1	332.4	241.6	174.2	123.6	84.6	51.8	37.9	36.1
55°	692.9	656.8	563.5	455.6	330.9	252.9	187.0	127.2	73.6	39.0	35.7
57.5°	874.0	830.3	751.9	604.3	444.7	322.6	250.0	186.2	107.2	43.7	36.8
60°	1003.8	950.6	853.6	718.4	539.4	379.4	282.5	203.0	119.2	44.8	37.9
62.5°	1080.3	1013.6	891.9	730.4	562.0	403.1	295.6	191.7	102.4	43.7	39.4
65°	*1094.2*	*1018.3*	*891.9*	*709.6*	*538.7*	*382.3*	*285.7*	*177.1*	*80.9*	*41.9*	*40.5*
67.5°	1014.7	944.0	837.2	651.7	477.8	328.4	246.0	145.8	61.6	40.5	40.1
70°	832.8	779.6	692.5	532.5	387.8	267.2	195.7	112.3	49.9	38.6	37.9
72.5°	649.9	600.7	535.4	417.7	300.0	211.8	149.4	87.8	44.5	37.2	36.8
75°	511.4	474.5	420.6	329.9	225.6	160.4	113.4	66.3	40.1	36.4	35.7
77.5°	418.4	394.4	338.6	251.9	168.4	119.2	84.6	52.8	38.3	35.7	35.4
80°	325.5	305.4	270.4	188.4	120.6	89.7	66.7	46.7	37.2	35.4	35.0
82.5°	232.2	225.2	195.7	146.5	100.6	76.9	60.1	44.8	36.8	35.0	34.6
85°	193.9	184.1	162.2	127.2	92.6	73.3	57.6	44.1	36.8	35.0	34.6
87.5°	187.3	178.6	158.5	121.4	87.1	68.9	55.0	42.6	36.1	34.3	34.3
90°	165.5	156.7	141.4	109.3	80.2	64.1	51.4	40.5	34.6	32.8	32.8
92.5°	146.5	141.4	126.8	100.2	76.9	61.6	49.6	39.4	33.9	32.4	32.1
95°	123.9	119.5	108.2	90.4	72.2	58.7	48.1	38.3	33.2	31.7	31.7
97.5°	102.8	99.1	90.4	76.5	62.3	52.1	43.4	36.1	32.1	31.0	31.0
100°	90.8	87.8	80.2	68.9	57.6	48.8	41.9	35.7	31.7	30.3	30.3
102.5°	86.0	83.1	75.4	65.2	54.7	46.7	40.8	35.0	31.3	29.9	29.5
105°	82.4	79.5	72.5	62.0	51.8	44.5	38.6	34.3	30.6	29.5	29.2
107.5°	78.7	75.4	68.9	58.3	49.2	42.3	37.2	33.2	30.3	29.2	29.2
110°	74.7	71.8	65.6	55.4	47.4	40.8	36.4	32.8	30.3	29.2	29.2

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

Scaled Data Report

REPORT NUMBER: P1045757
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	70.3	67.4	61.6	52.5	45.6	39.7	35.7	32.4	30.3	29.2	29.2
115°	65.2	62.7	57.2	49.6	43.4	38.3	34.6	31.7	29.5	28.8	28.8
117.5°	63.8	60.9	55.4	48.5	42.6	37.2	33.9	31.0	29.2	28.4	28.4
120°	67.1	63.1	57.2	50.7	42.6	36.4	33.2	30.6	28.8	28.1	28.1
122.5°	71.4	68.2	61.6	49.6	41.2	35.7	32.4	30.3	28.4	28.1	28.1
125°	67.4	65.2	59.0	45.9	39.7	35.0	32.1	30.3	28.8	28.1	28.1
127.5°	59.0	56.9	52.1	43.7	38.3	34.3	31.7	30.3	29.2	28.1	28.1
130°	55.8	52.8	48.5	41.9	36.8	33.2	31.3	30.3	29.2	27.7	27.3
132.5°	57.2	54.7	47.7	39.4	34.6	31.7	30.3	29.5	27.3	25.9	25.5
135°	53.9	51.4	44.5	37.5	33.5	31.3	29.9	27.7	25.5	23.7	23.7
137.5°	48.1	45.2	41.2	36.1	33.2	32.1	30.3	27.3	24.4	23.0	23.0
140°	47.7	44.5	40.8	35.7	32.4	29.5	27.3	24.4	22.2	21.5	21.1
142.5°	48.5	46.3	41.2	35.4	31.0	27.3	24.8	22.6	21.1	20.0	20.0
145°	56.1	52.8	46.3	38.6	33.5	29.2	25.5	22.6	20.4	18.6	18.2
147.5°	58.0	54.7	48.8	42.3	35.7	30.3	25.1	21.5	18.6	17.1	16.8
150°	48.5	46.3	43.0	37.9	32.1	26.6	22.2	19.0	17.1	16.4	16.0
152.5°	36.8	36.1	33.9	30.3	26.2	22.6	19.7	17.9	16.8	16.4	16.0
155°	31.3	31.0	28.8	25.9	22.6	20.0	18.2	17.1	16.4	16.4	16.0
157.5°	29.2	28.4	26.6	23.7	20.8	19.3	17.5	16.8	16.4	16.4	16.4
160°	24.4	23.7	22.2	21.1	19.3	18.2	17.1	16.8	16.4	16.4	16.0
162.5°	21.9	21.1	20.4	19.3	19.0	18.6	18.2	17.5	17.1	16.8	16.8
165°	20.8	20.4	19.3	19.0	19.0	19.3	19.3	18.6	17.9	17.1	17.1
167.5°	20.4	20.0	19.3	19.0	19.7	20.0	20.4	19.7	19.0	17.9	17.5
170°	20.4	20.4	20.0	19.7	20.0	20.4	20.8	20.8	20.4	19.7	19.7
172.5°	20.4	20.8	20.4	20.4	20.4	20.4	20.4	21.1	21.1	20.8	20.8
175°	21.9	21.9	20.8	20.4	20.8	21.1	21.5	21.1	21.1	21.5	21.5
177.5°	20.0	20.8	22.2	22.6	23.3	23.3	22.6	22.2	21.1	20.8	20.8
180°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

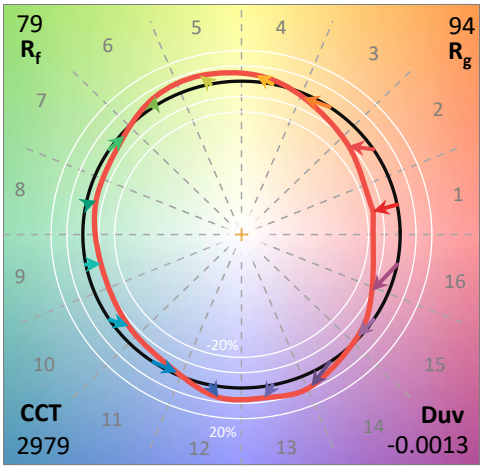
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

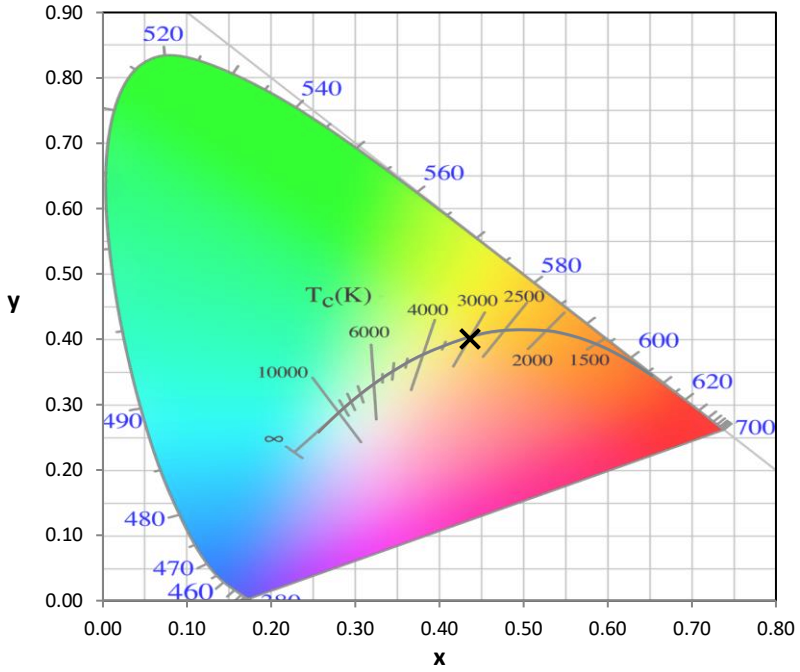
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

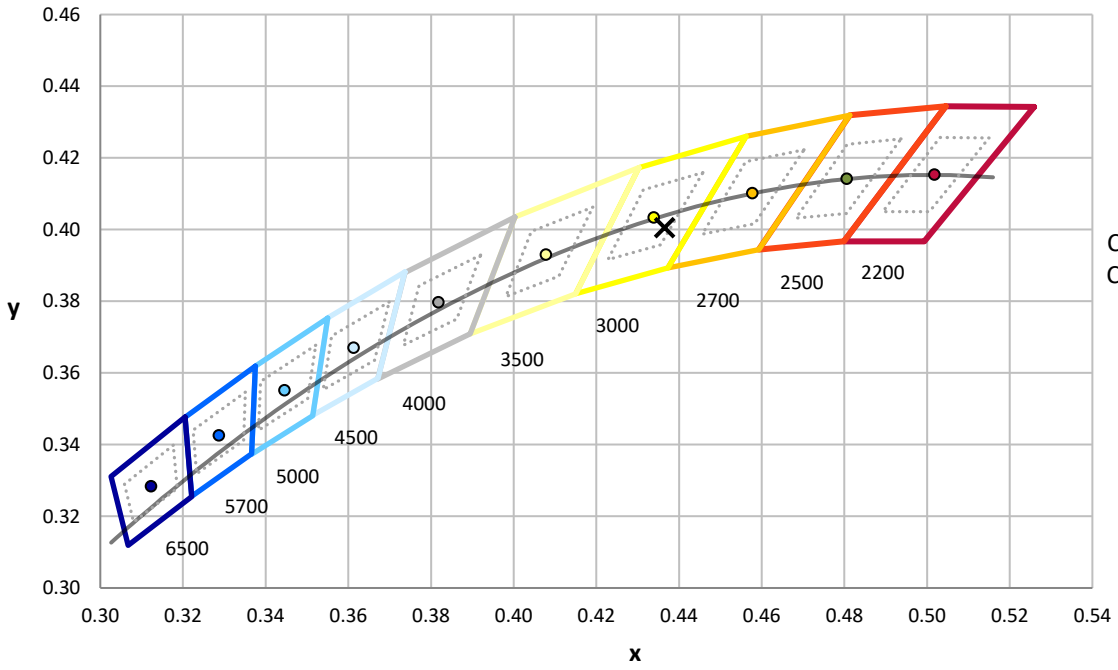
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

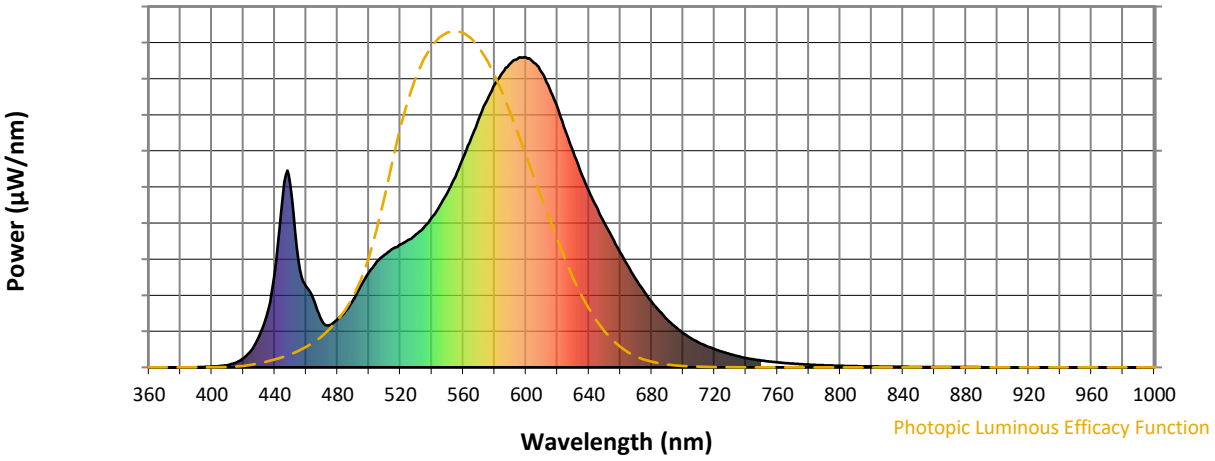


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

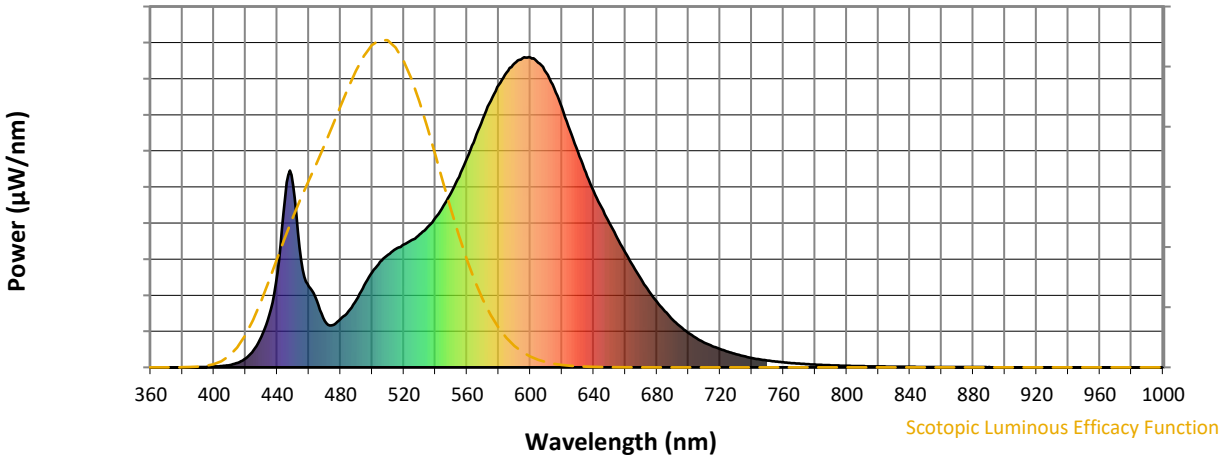


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

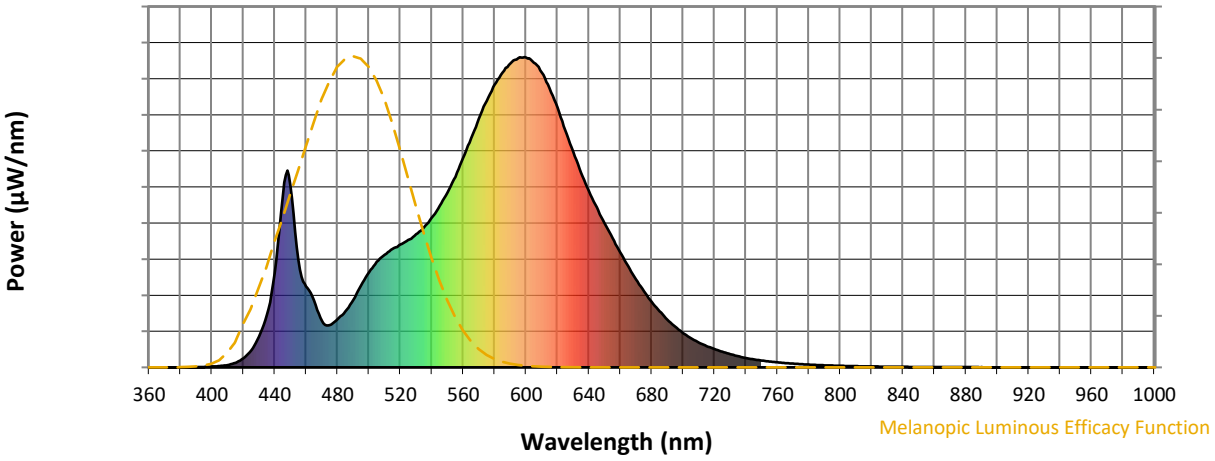


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

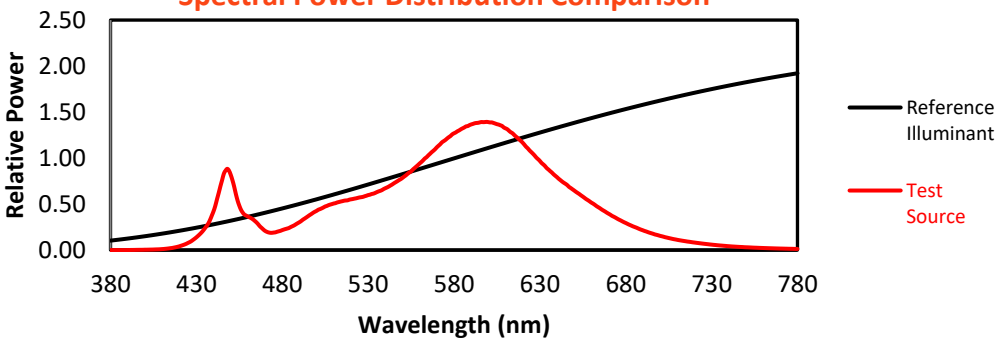
REPORT NUMBER: SP1-2501-332-9

TM-30-18

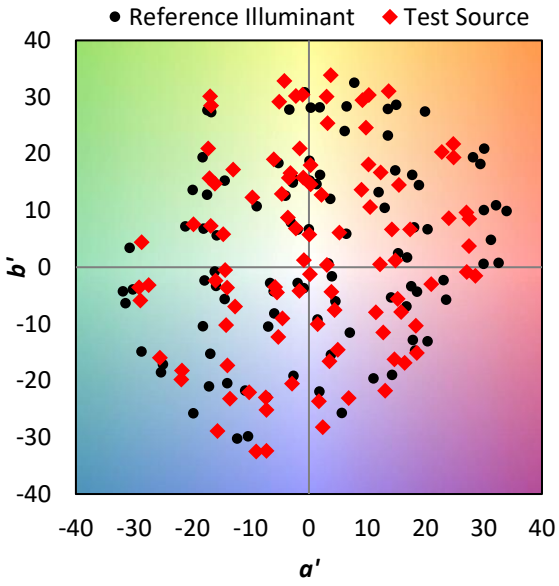
Summary

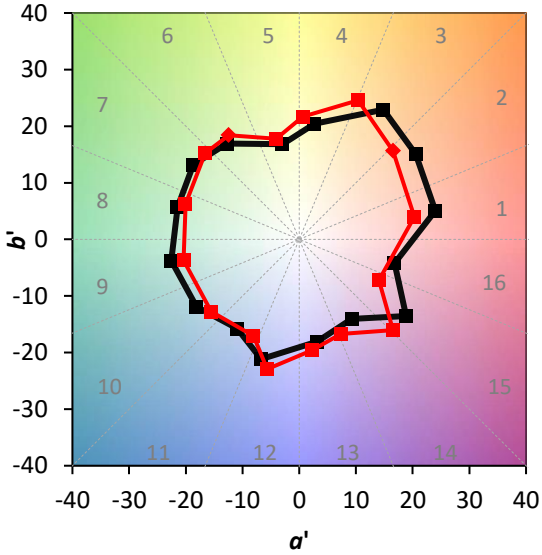
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

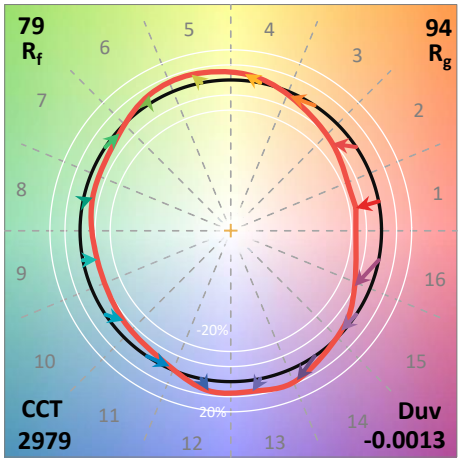
Spectral Power Distribution Comparison

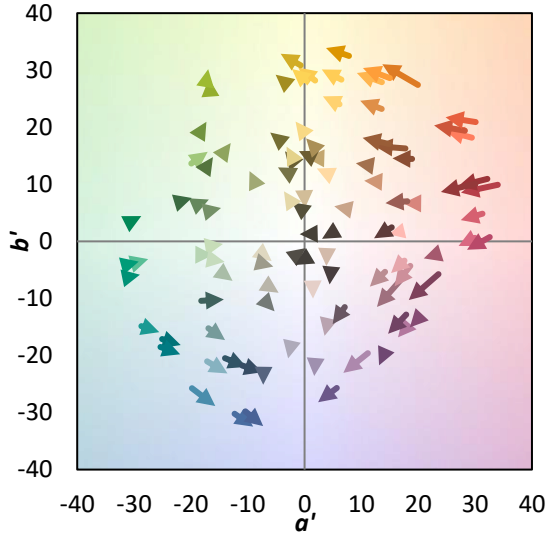


Color Vector Graphics







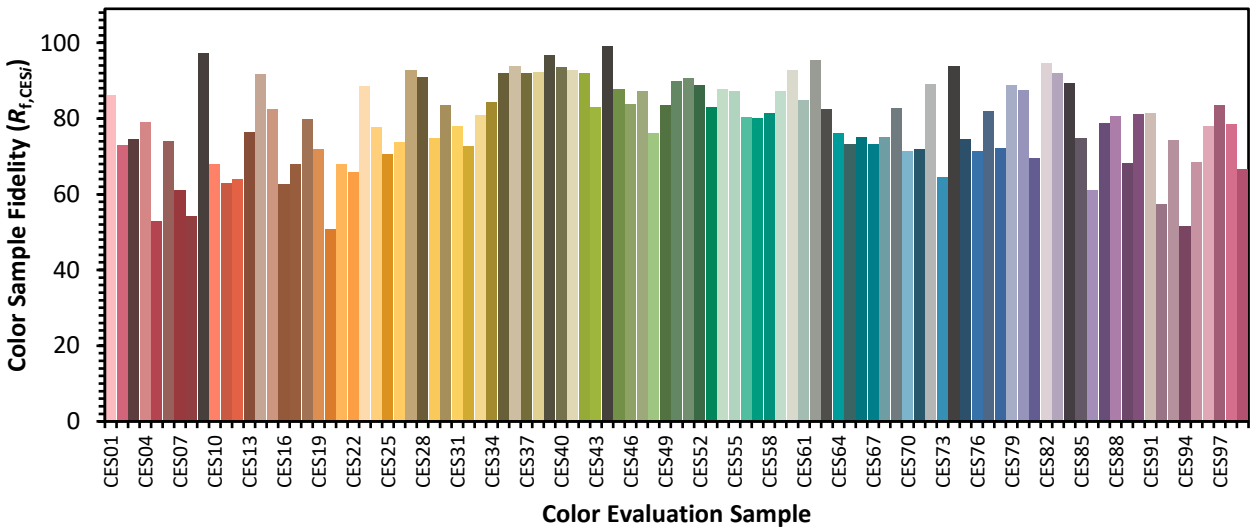


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

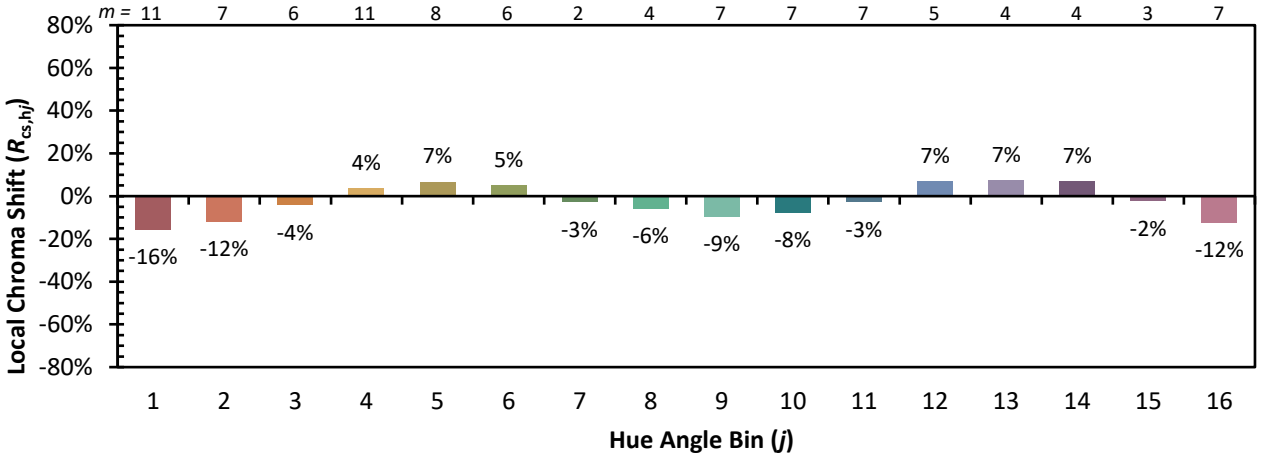
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
CES25 = 72	CES50 = 90	CES75 = 75	

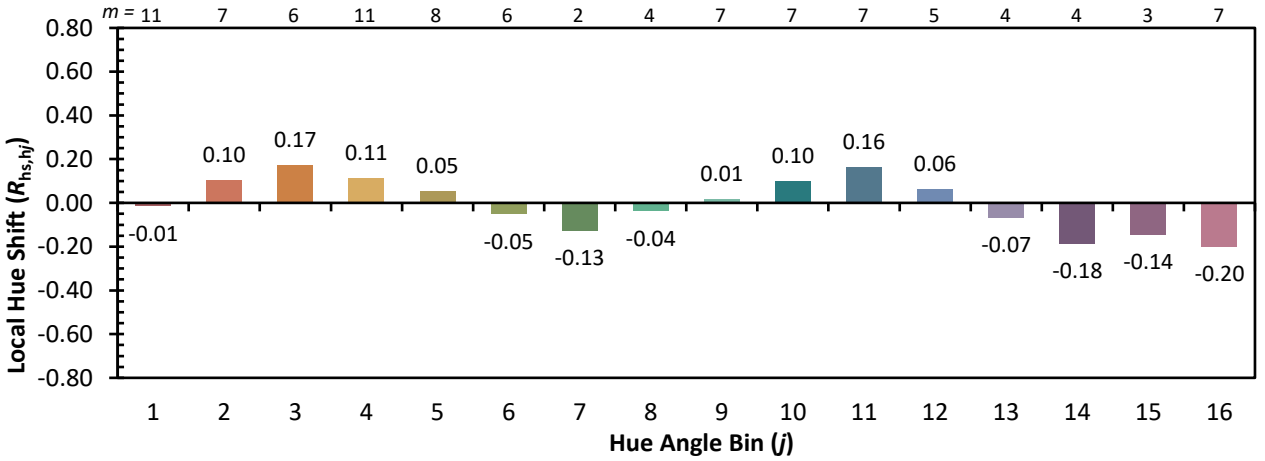


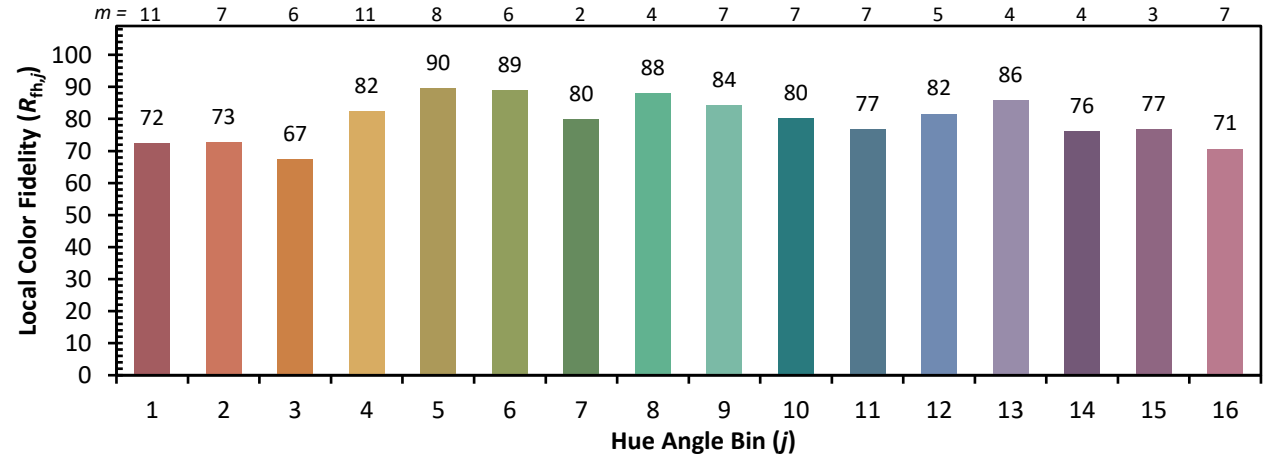
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Color Rendition by Hue-Angle Bin



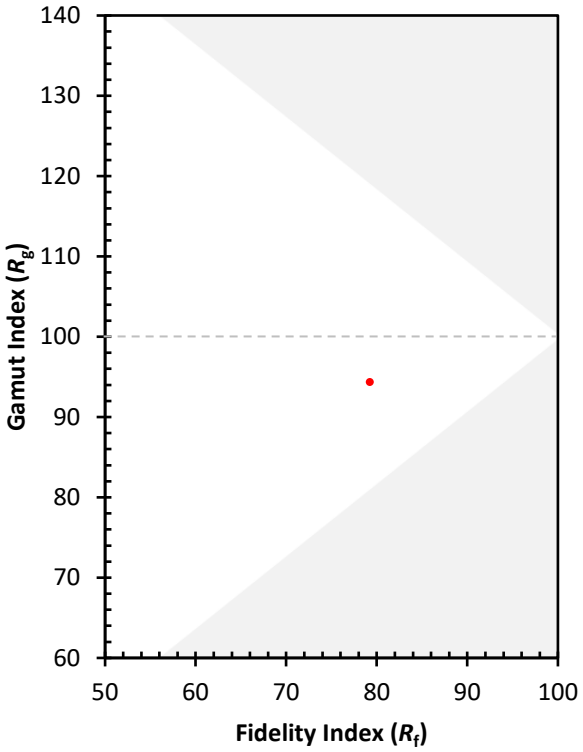


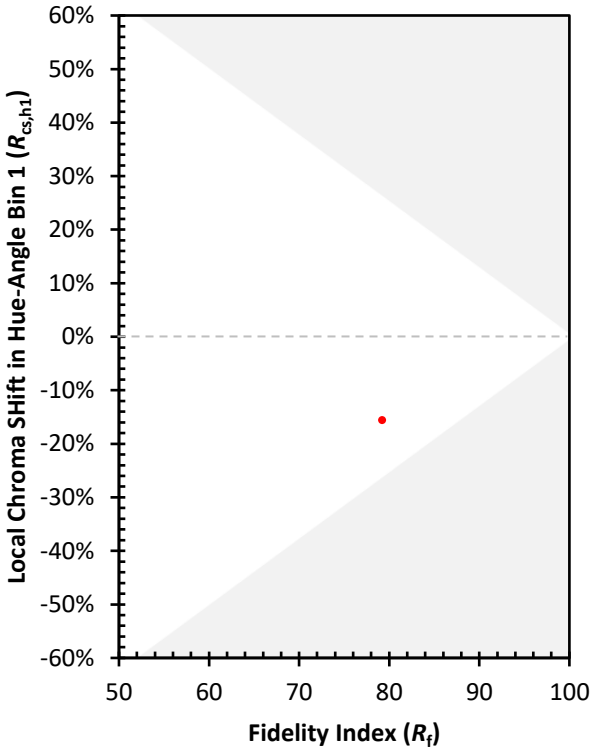


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Measure Comparisons





(END OF REPORT)