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: P1045809

Luminaire Tested: **FFX-CLB-50-740-U-FR-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045809
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5592.9 lumens
Efficiency:	N/A
Efficacy:	110.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

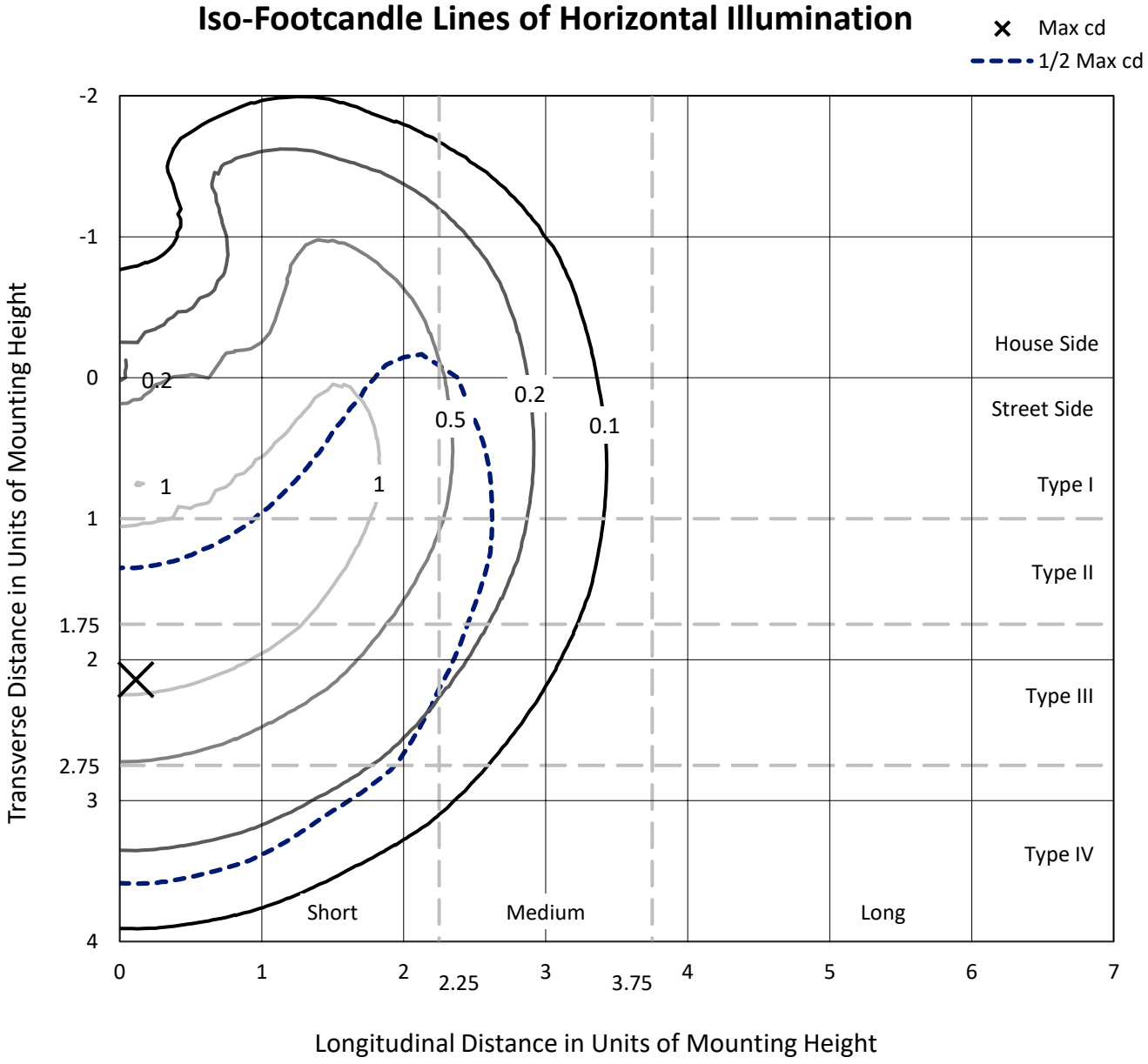


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Iso-Footcandle Lines of Horizontal Illumination



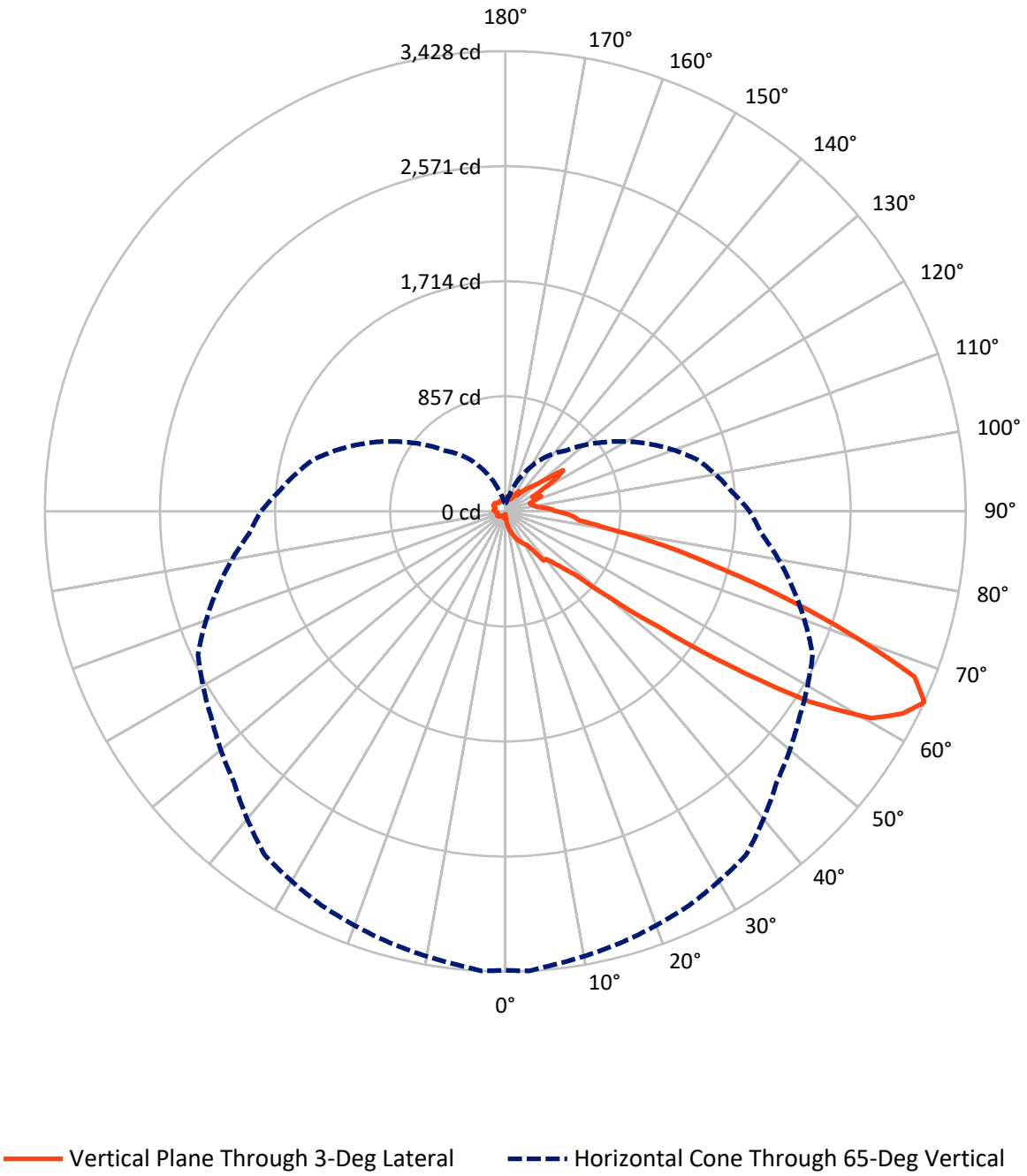
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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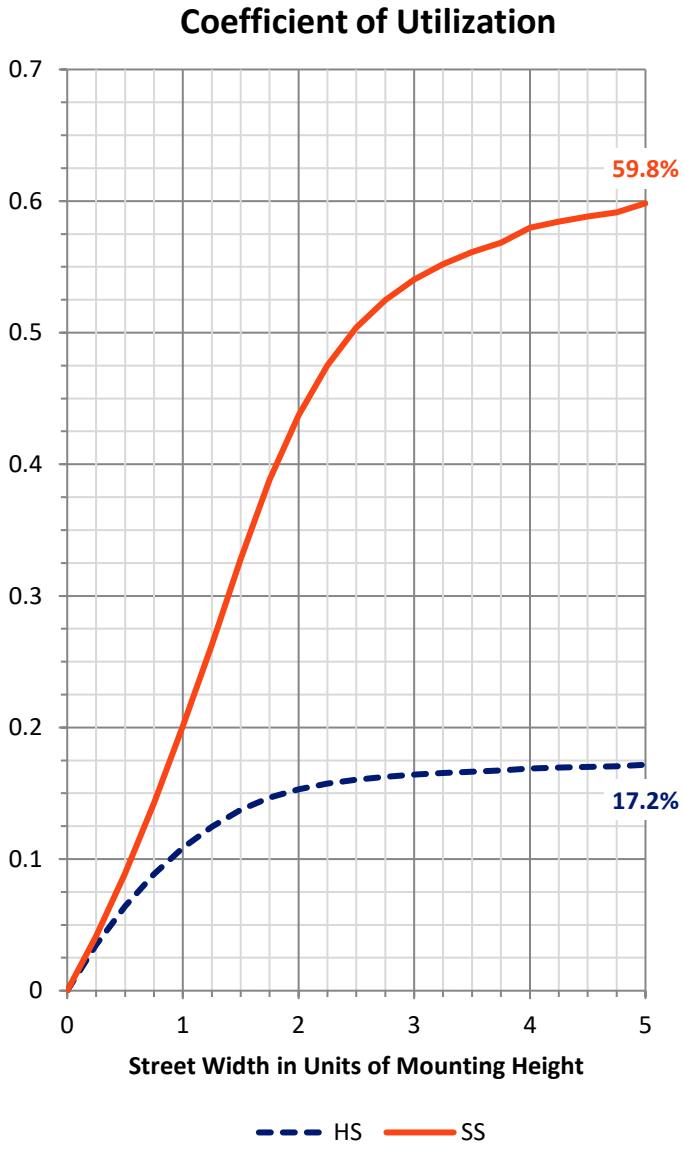
REPORT NUMBER: P1045809
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.1	388.1	1385.2
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	3485.4	722.3	4207.7
	% Fixture	62.3	12.9	75.2
Total	Lumens	4482.5	1110.4	5592.9
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	31.7	0.6
20°-30°	69.8	1.2
30°-40°	139.3	2.5
40°-50°	300.6	5.4
50°-60°	1027.8	18.4
60°-70°	1670.2	29.9
70°-80°	898.7	16.1
80°-90°	338.6	6.1
90°-100°	213.6	3.8
100°-110°	151.8	2.7
110°-120°	167.6	3.0
120°-130°	256.0	4.6
130°-140°	153.6	2.7
140°-150°	84.8	1.5
150°-160°	47.2	0.8
160°-170°	26.1	0.5
170°-180°	9.6	0.2
0°-90°	4482.5	80.1
0°-180°	5592.9	100.0



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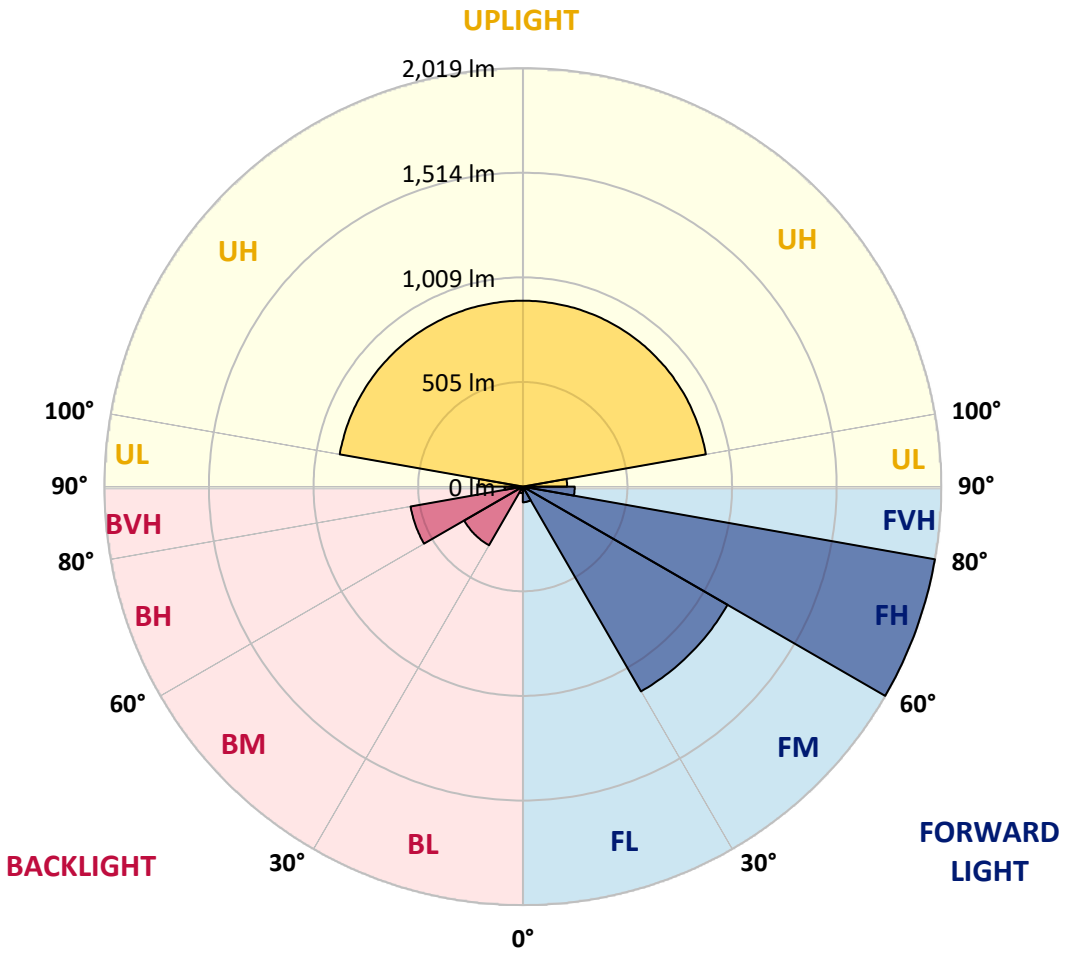
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	75.4	1.3			
FM	(30°-60°)	1140.8	20.4			
FH	(60°-80°)	2019.0	36.1			G2/5000
FVH	(80°-90°)	250.3	4.5			G3/500
BL	(0°-30°)	31.9	0.6	B0/110		
BM	(30°-60°)	326.9	5.8	B1/1000		
BH	(60°-80°)	549.9	9.8	B2/1000		G2/1000
BVH	(80°-90°)	88.4	1.6			G1/100
UL	(90°-100°)	213.6	3.8		U3/500	
UH	(100°-180°)	896.8	16.0		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
2.5°	44.5	45.1	45.1	45.1	46.4	47.0	46.4	44.5	42.0	40.7	39.5
5°	64.5	65.8	65.2	65.2	63.9	63.9	62.0	60.8	59.5	55.1	50.7
7.5°	89.6	88.3	87.7	86.5	87.1	84.0	81.4	81.4	79.6	75.2	68.3
10°	115.9	115.9	114.0	113.4	112.1	110.9	106.5	104.0	104.0	96.5	88.3
12.5°	144.7	144.1	144.7	143.5	141.6	138.5	133.4	127.8	124.7	117.8	105.9
15°	163.5	162.9	162.9	162.3	161.0	157.9	154.1	148.5	140.3	133.4	122.2
17.5°	183.6	182.3	182.3	179.2	176.7	172.9	169.8	164.1	154.1	141.6	130.9
20°	205.5	205.5	205.5	201.1	196.1	191.1	186.7	181.7	174.2	155.4	140.3
22.5°	226.2	226.8	226.2	221.8	217.4	209.3	202.4	196.1	188.6	169.8	151.6
25°	246.2	247.5	246.8	246.8	241.2	230.6	221.2	211.8	206.7	188.0	162.9
27.5°	263.8	264.4	265.0	268.1	265.0	253.1	238.1	226.8	223.0	202.4	172.3
30°	280.7	282.6	282.6	285.7	285.1	271.9	253.7	241.2	233.7	213.6	181.7
32.5°	297.0	298.2	298.8	306.4	305.7	288.2	272.5	258.7	246.2	231.2	198.0
35°	355.9	354.0	363.4	369.0	364.6	349.0	330.2	304.5	286.9	269.4	233.7
37.5°	465.5	464.2	464.2	451.7	434.2	416.0	411.0	384.0	362.7	340.2	291.3
40°	468.6	468.6	470.5	484.3	493.1	469.9	448.0	421.6	417.3	394.1	334.6
42.5°	514.4	519.4	524.4	533.8	549.4	534.4	509.3	467.4	447.3	423.5	372.8
45°	592.0	599.6	597.1	600.8	597.1	583.9	582.0	558.8	528.8	483.0	414.7
47.5°	720.5	716.1	713.6	728.6	753.1	728.6	723.0	686.0	628.4	570.1	492.4
50°	1036.2	1017.4	1036.9	1033.7	1029.3	1006.8	989.9	952.9	858.9	764.3	652.2
52.5°	1459.1	1428.4	1446.0	1457.9	1445.4	1413.4	1362.7	1290.6	1164.0	1041.9	894.0
55°	2073.7	2031.1	2036.8	2051.8	2060.6	1987.9	1915.2	1756.1	1566.3	1377.7	1217.3
57.5°	2752.2	2675.8	2725.9	2642.0	2607.5	2477.8	2416.4	2255.4	2032.4	1780.5	1521.8
60°	3134.4	3126.3	3116.9	3051.7	3015.4	2870.0	2725.9	2574.9	2375.1	2077.5	1774.9
62.5°	3300.4	3318.0	3304.2	3270.4	3237.8	3110.0	2859.4	2680.2	2517.9	2212.2	1910.2
65°	3417.6	3427.6	3404.4	3326.1	3237.8	3123.8	2856.2	2673.3	2524.8	2216.6	1915.9
67.5°	3283.5	3285.4	3257.2	3155.7	2976.5	2876.3	2616.9	2457.2	2311.8	2048.7	1767.4
70°	2704.6	2710.3	2692.7	2602.5	2452.1	2365.1	2115.1	1950.9	1841.3	1659.6	1452.2
72.5°	2108.2	2132.6	2107.6	2071.9	1929.0	1864.5	1696.6	1563.8	1462.9	1291.9	1124.6
75°	1585.1	1590.7	1591.3	1551.2	1476.0	1461.6	1346.4	1258.7	1170.9	1030.6	907.8
77.5°	1149.6	1174.7	1165.9	1159.0	1060.7	1066.3	1020.6	968.6	913.4	820.1	732.4
80°	763.1	776.2	760.6	764.3	751.2	748.0	705.4	670.4	636.5	593.3	558.8
82.5°	556.3	553.8	552.6	545.7	535.7	537.5	516.2	473.0	432.3	423.5	391.6
85°	514.4	512.5	510.6	498.1	476.8	463.6	451.7	434.2	409.1	369.6	328.3
87.5°	449.8	450.5	446.1	432.9	419.1	415.4	406.0	394.7	382.2	352.7	316.4
90°	370.3	368.4	369.0	361.5	364.0	362.7	348.3	334.6	329.5	304.5	283.2
92.5°	342.1	340.2	340.8	335.2	326.4	324.5	308.9	292.0	284.4	268.8	252.5
95°	285.7	285.7	283.2	280.7	276.3	270.0	261.9	250.6	245.0	232.4	216.1
97.5°	240.0	237.4	239.3	234.9	231.2	228.7	222.4	211.1	205.5	196.1	183.6
100°	223.0	223.0	222.4	220.5	211.1	206.1	199.2	188.6	184.2	176.0	166.7
102.5°	213.6	213.0	212.4	210.5	201.7	193.0	184.2	177.9	172.9	166.0	156.0
105°	195.5	195.5	196.7	196.1	189.8	184.2	174.8	169.2	164.1	157.3	147.9
107.5°	193.6	193.0	193.0	185.4	177.3	174.2	167.3	162.3	157.9	151.0	140.3
110°	221.8	223.0	224.9	212.4	193.0	184.8	174.8	169.2	164.1	155.4	144.1

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	290.7	*290.7*	289.4	282.6	248.7	226.2	221.2	206.7	198.6	185.4	169.8
115°	261.3	*261.9*	261.3	263.1	260.6	232.4	237.4	213.6	227.4	196.7	186.1
117.5°	228.0	*227.4*	224.9	225.5	228.0	246.2	206.7	201.1	206.7	179.2	169.8
120°	318.3	*312.6*	318.3	295.1	291.3	294.5	271.9	267.5	243.7	210.5	185.4
122.5°	468.6	*459.9*	472.4	464.2	470.5	449.8	427.9	409.7	383.4	327.7	277.5
125°	529.4	*527.5*	524.4	513.1	503.1	494.3	498.1	505.0	490.6	445.4	387.2
127.5°	389.7	*394.7*	392.8	415.4	437.3	432.3	419.1	425.4	432.9	430.4	396.0
130°	310.7	*315.1*	317.6	339.6	358.4	358.4	337.1	331.4	337.7	350.8	337.7
132.5°	272.5	*273.8*	275.0	282.6	298.2	305.7	292.6	283.8	286.3	293.2	281.9
135°	245.6	*245.0*	243.1	238.1	239.3	246.8	252.5	251.2	249.3	249.3	243.1
137.5°	213.0	*212.4*	212.4	204.9	201.7	208.0	216.1	223.7	218.7	211.8	204.2
140°	177.3	*176.7*	177.3	181.7	182.9	183.6	188.0	188.0	188.0	187.3	184.2
142.5°	147.2	*147.9*	149.1	160.4	166.0	166.0	160.4	155.4	154.7	158.5	159.1
145°	181.1	*181.1*	181.7	181.1	177.3	173.5	169.8	169.8	166.0	157.3	152.9
147.5°	161.6	*164.1*	162.3	164.1	165.4	166.0	165.4	167.3	167.9	162.9	156.0
150°	127.2	*126.6*	125.3	127.2	130.3	134.1	135.3	136.6	137.2	137.2	137.2
152.5°	110.3	*110.9*	110.3	112.1	114.0	114.7	116.5	116.5	117.2	116.5	115.3
155°	107.1	*107.1*	107.1	107.1	107.8	109.0	111.5	112.8	111.5	109.6	106.5
157.5°	99.6	*99.6*	99.6	100.2	101.5	102.7	104.6	105.9	105.9	104.6	102.1
160°	95.2	*95.2*	95.2	95.2	96.5	97.7	99.0	100.2	100.2	99.6	97.7
162.5°	90.2	*90.2*	90.2	90.8	92.1	93.3	94.6	95.9	95.2	95.2	94.0
165°	89.6	*89.6*	89.6	90.2	91.5	93.3	94.0	94.0	94.6	94.6	94.6
167.5°	92.1	*92.1*	92.7	92.7	94.0	94.6	95.9	96.5	97.1	96.5	96.5
170°	95.9	*95.9*	95.9	96.5	97.1	97.1	97.7	97.7	98.4	98.4	98.4
172.5°	100.9	*100.9*	100.9	100.9	100.2	100.2	100.2	100.2	100.9	100.2	100.9
175°	106.5	*106.5*	106.5	105.9	105.3	105.3	104.6	104.6	104.0	103.4	103.4
177.5°	107.1	*107.1*	107.1	107.1	106.5	105.9	105.9	105.3	104.6	104.6	104.6
180°	104.6	*104.6*	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
2.5°	38.2	37.0	33.8	31.3	29.4	26.9	25.1	23.2	21.9	21.3	20.7
5°	50.1	47.6	43.9	40.1	37.0	32.6	30.1	25.7	22.6	21.3	20.7
7.5°	65.8	63.9	62.0	61.4	60.1	54.5	46.4	40.1	38.8	37.6	38.8
10°	84.0	80.2	74.6	77.7	77.7	67.0	55.8	49.5	48.9	51.4	52.0
12.5°	100.9	95.9	89.0	88.3	81.4	67.0	55.1	48.9	48.2	48.9	49.5
15°	116.5	110.9	103.4	97.1	86.5	71.4	57.6	49.5	47.6	49.5	49.5
17.5°	125.3	119.7	109.0	97.1	84.6	70.8	57.0	48.2	43.9	41.3	41.3
20°	136.0	131.6	117.2	102.1	85.2	70.2	56.4	47.0	42.0	39.5	38.8
22.5°	145.3	140.3	124.7	108.4	89.0	70.2	54.5	46.4	42.0	39.5	38.8
25°	156.6	149.1	133.4	115.3	92.1	70.2	54.5	47.0	42.6	40.1	39.5
27.5°	164.1	155.4	140.3	120.3	95.9	71.4	56.4	47.6	42.6	40.1	40.1
30°	171.7	163.5	146.0	127.2	100.2	74.6	59.5	50.1	44.5	41.3	41.3
32.5°	186.7	176.0	154.7	132.8	104.0	77.1	62.7	52.6	46.4	43.2	43.2
35°	220.5	205.5	179.8	149.1	109.0	79.6	65.8	55.8	47.6	43.9	43.9
37.5°	271.9	253.1	221.8	179.8	121.5	83.3	68.3	57.0	48.9	45.7	45.1
40°	305.7	282.6	245.0	204.2	139.7	89.6	71.4	58.9	50.1	46.4	45.7
42.5°	346.5	318.3	268.1	211.8	149.1	102.7	77.7	62.0	52.0	47.0	46.4
45°	383.4	359.6	312.6	247.5	176.0	122.2	89.0	67.7	55.1	48.9	48.2
47.5°	458.6	421.6	359.0	292.0	209.9	151.6	108.4	76.4	60.1	51.4	50.1
50°	605.2	567.0	491.2	387.2	271.3	193.0	139.7	92.7	66.4	53.9	52.0
52.5°	822.0	751.8	667.2	526.9	384.7	278.8	198.0	130.9	78.9	56.4	53.3
55°	1112.0	1072.0	922.2	743.7	548.2	417.3	304.5	203.6	117.8	59.5	53.9
57.5°	1444.7	1365.2	1228.6	1006.2	733.0	531.3	411.6	303.2	173.5	69.5	57.0
60°	1659.0	1576.3	1419.7	1194.7	892.1	633.4	469.3	337.7	196.7	71.4	59.5
62.5°	1797.4	1681.5	1482.9	1219.8	938.5	675.4	495.6	320.8	167.9	69.5	61.4
65°	*1818.7*	*1692.8*	*1482.9*	*1185.3*	*896.5*	*640.9*	*479.3*	*296.3*	*132.2*	*66.4*	*63.9*
67.5°	1692.8	1556.2	1382.1	1087.0	804.4	549.4	411.6	241.8	100.2	64.5	63.3
70°	1370.8	1285.0	1126.5	885.9	642.2	449.8	327.7	185.4	81.4	62.7	62.0
72.5°	1047.5	985.5	874.6	690.4	494.9	347.1	250.0	146.0	73.3	61.4	60.8
75°	833.9	777.5	687.3	531.9	377.8	267.5	186.7	112.1	67.0	61.4	60.1
77.5°	687.9	638.4	557.0	421.6	275.7	199.9	141.6	90.8	65.8	61.4	60.8
80°	529.4	493.7	432.9	306.4	197.3	149.7	112.8	80.8	65.8	62.7	62.0
82.5°	375.3	361.5	315.8	238.7	166.0	130.3	104.0	79.6	67.0	63.9	63.3
85°	312.0	295.7	263.1	208.0	154.7	125.9	102.7	81.4	70.2	67.7	67.0
87.5°	300.7	290.1	258.1	201.1	148.5	120.3	98.4	79.6	70.2	68.9	69.5
90°	271.9	260.0	235.6	187.3	142.2	119.7	100.2	82.7	72.7	71.4	70.8
92.5°	246.8	240.0	218.7	181.1	146.6	124.0	105.9	90.2	82.1	79.6	79.6
95°	211.1	204.2	192.3	166.0	139.7	121.5	105.9	92.1	85.2	84.0	83.3
97.5°	179.8	175.4	165.4	144.7	124.0	109.0	95.2	84.6	78.9	77.1	77.1
100°	164.1	160.4	152.2	138.5	122.8	110.3	99.0	89.6	84.6	83.3	83.3
102.5°	152.9	149.7	142.2	132.2	118.4	108.4	99.0	90.8	85.2	84.0	84.6
105°	143.5	140.3	132.8	122.8	111.5	100.9	94.0	87.7	81.4	79.6	79.6
107.5°	136.6	133.4	127.2	117.2	107.8	98.4	90.8	85.8	80.8	79.6	79.6
110°	139.7	135.3	125.9	115.3	107.1	99.0	92.7	87.7	84.0	82.1	82.1

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

Scaled Data Report

REPORT NUMBER: P1045809
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	163.5	156.6	141.0	125.9	115.3	105.9	99.0	92.1	89.0	86.5	86.5
115°	179.2	172.3	156.6	138.5	122.8	109.6	100.2	94.6	90.8	93.3	92.1
117.5°	163.5	158.5	146.6	133.4	120.9	109.6	101.5	97.7	95.2	98.4	99.6
120°	179.8	170.4	161.0	146.0	122.8	107.1	101.5	100.2	100.2	97.7	97.7
122.5°	256.9	241.2	206.1	180.4	148.5	130.9	120.3	110.3	100.2	96.5	95.9
125°	359.6	330.2	285.7	240.6	196.7	159.8	129.1	110.3	100.9	95.2	94.0
127.5°	378.4	352.7	312.0	257.5	198.0	156.0	128.4	114.0	103.4	97.1	96.5
130°	319.5	307.0	270.7	223.7	177.9	145.3	127.2	114.0	104.0	98.4	97.1
132.5°	271.3	262.5	228.7	191.1	158.5	134.7	118.4	104.0	94.6	89.6	88.3
135°	233.1	227.4	198.0	171.0	146.6	127.2	110.3	96.5	89.0	85.8	85.2
137.5°	199.9	194.2	174.2	155.4	136.6	119.7	105.9	94.0	87.1	85.2	84.6
140°	179.2	174.2	161.6	141.6	123.4	105.9	95.9	88.3	84.6	83.3	82.7
142.5°	156.0	150.4	136.6	122.2	109.6	95.9	89.0	85.8	84.0	82.7	82.1
145°	147.9	144.1	128.4	115.3	103.4	96.5	92.7	88.3	84.6	82.1	81.4
147.5°	149.7	145.3	131.6	119.0	108.4	100.9	94.6	88.3	83.3	80.8	80.2
150°	134.1	132.8	124.7	114.7	104.6	96.5	90.2	85.2	82.1	81.4	81.4
152.5°	112.1	111.5	107.8	102.1	95.2	89.0	84.6	82.1	82.1	83.3	84.0
155°	105.3	103.4	100.9	97.1	91.5	87.1	84.0	82.7	83.3	84.6	84.6
157.5°	101.5	99.6	97.1	94.0	90.8	87.1	84.6	84.0	85.2	86.5	86.5
160°	96.5	95.2	93.3	90.2	87.7	85.8	84.6	84.6	85.2	85.8	85.8
162.5°	93.3	92.1	90.2	88.3	87.1	86.5	85.8	85.2	85.8	86.5	86.5
165°	93.3	92.7	90.2	88.3	87.7	87.7	87.7	87.7	87.7	87.1	87.1
167.5°	95.9	95.2	93.3	92.1	91.5	92.1	92.1	91.5	90.8	89.6	89.6
170°	98.4	97.7	97.1	96.5	95.9	96.5	96.5	96.5	95.9	95.9	95.2
172.5°	100.9	100.2	99.6	99.0	99.0	99.0	99.6	100.2	100.2	100.2	100.2
175°	103.4	103.4	102.1	101.5	101.5	101.5	102.1	102.1	102.7	102.7	102.7
177.5°	104.6	104.6	104.6	104.6	105.3	104.6	104.6	104.0	104.0	104.0	104.0
180°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

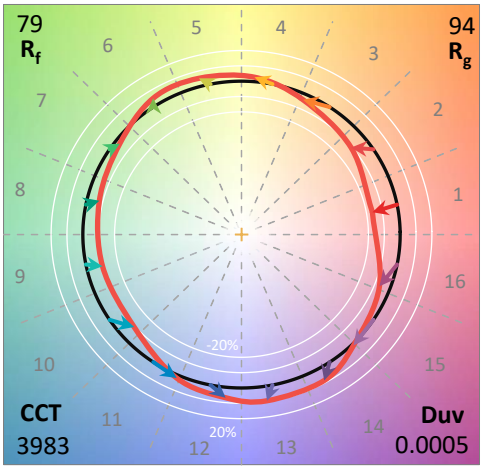
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
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-20-740-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):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

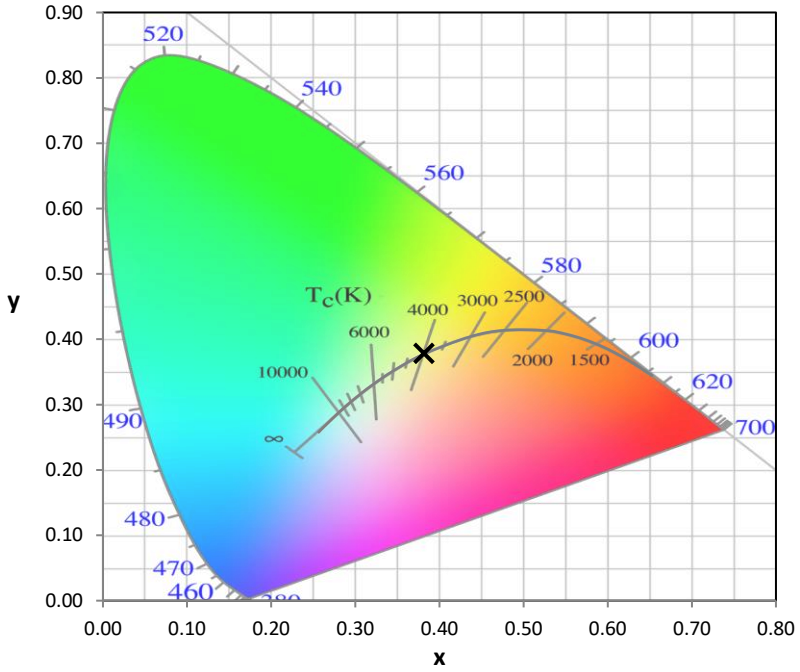
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

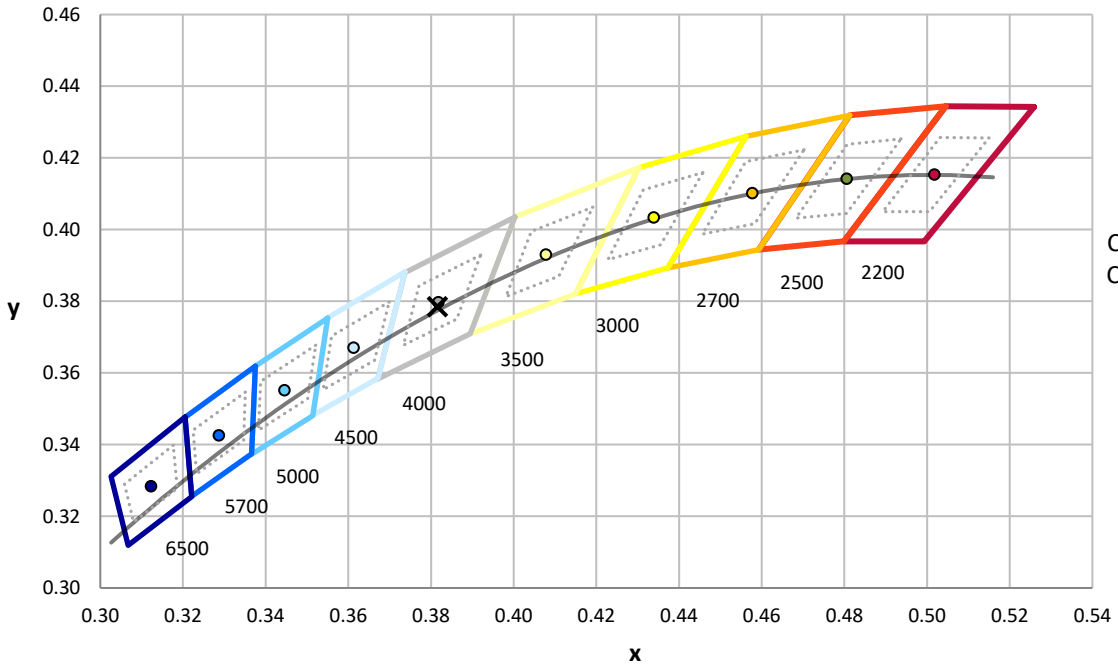
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

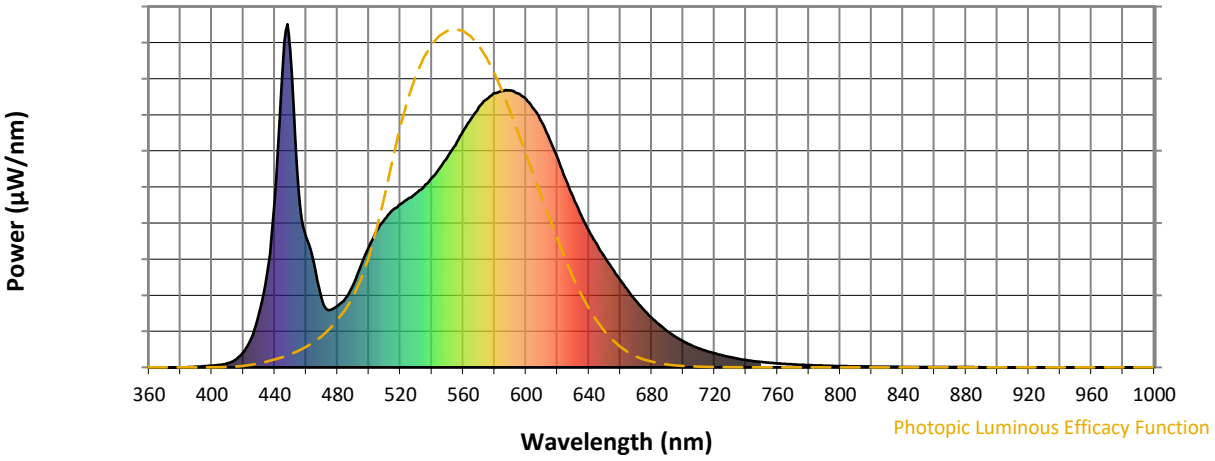


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

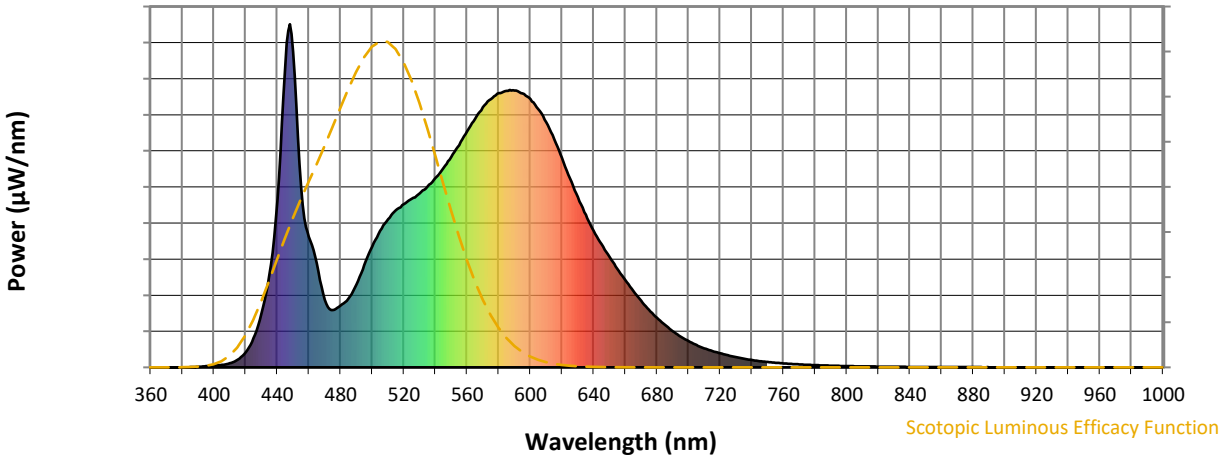


Photopic Lumens: NR

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

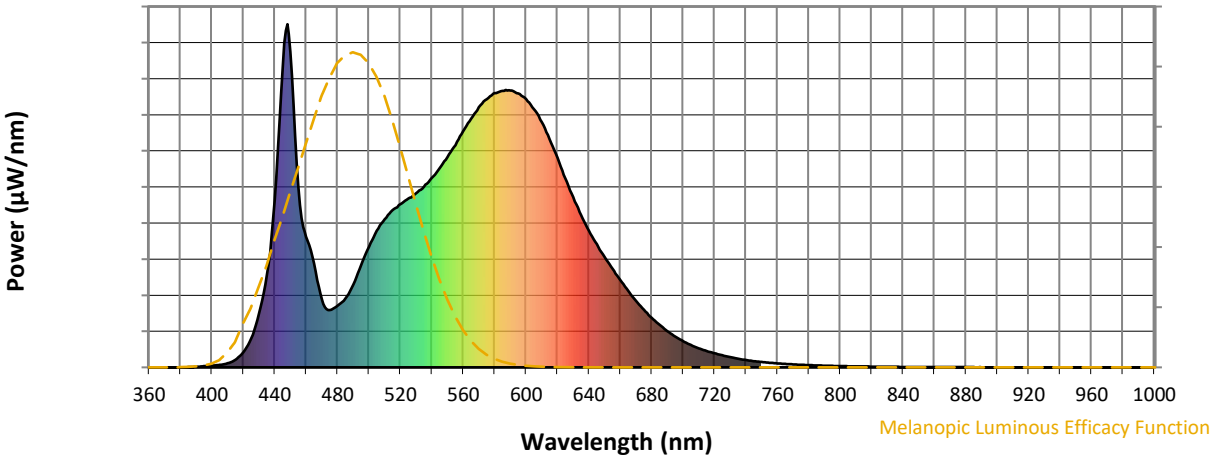


Scotopic Lumens: NR **S/P: 1.61**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

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	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

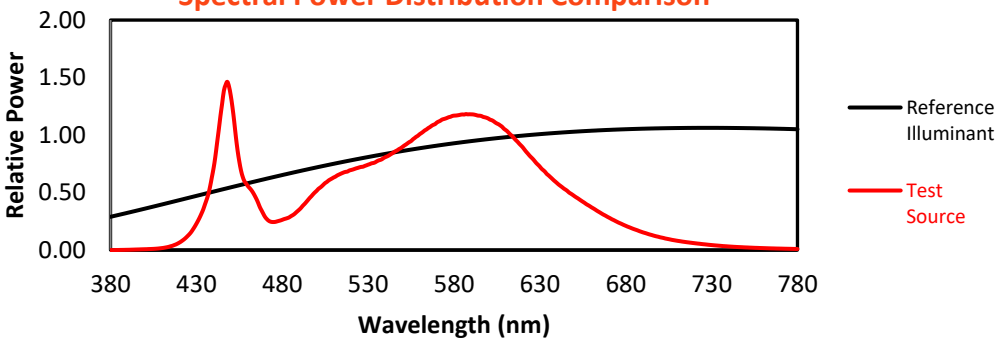
REPORT NUMBER: SP1-2501-332-11

TM-30-18

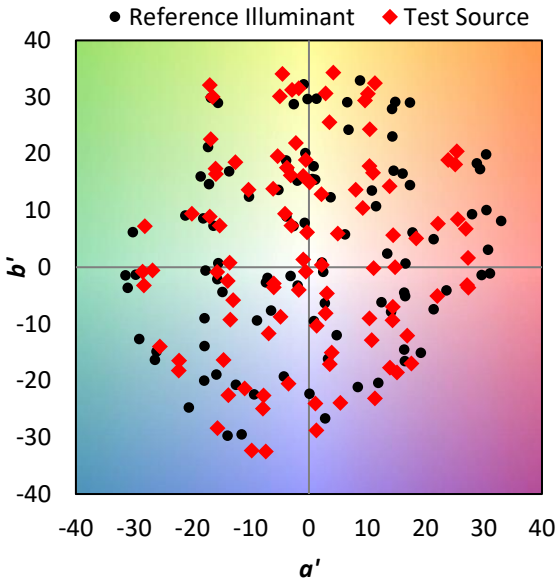
Summary

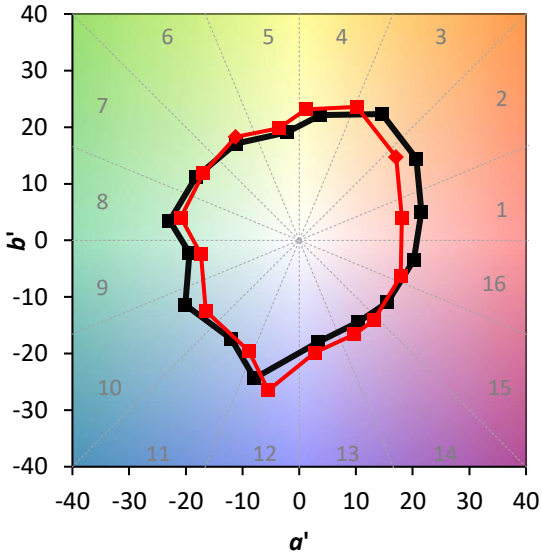
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

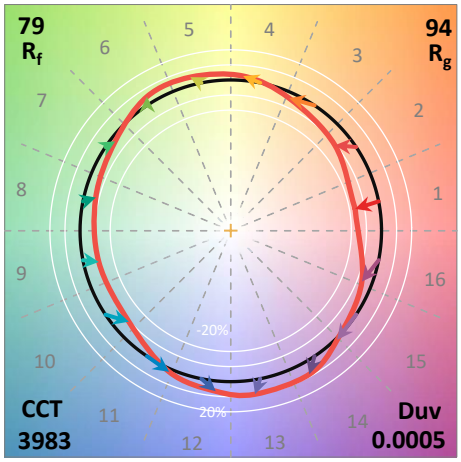
Spectral Power Distribution Comparison

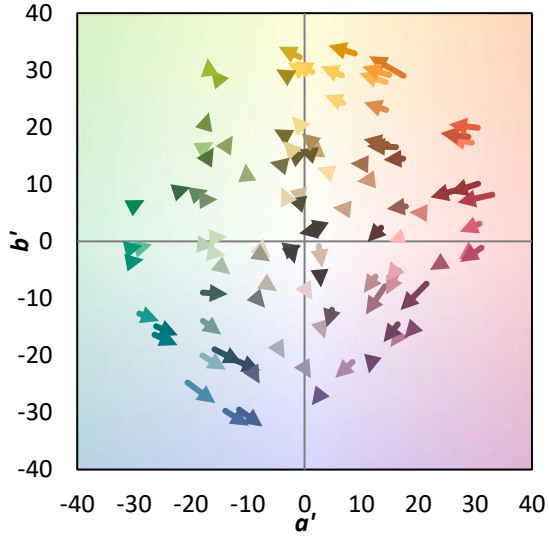


Color Vector Graphics







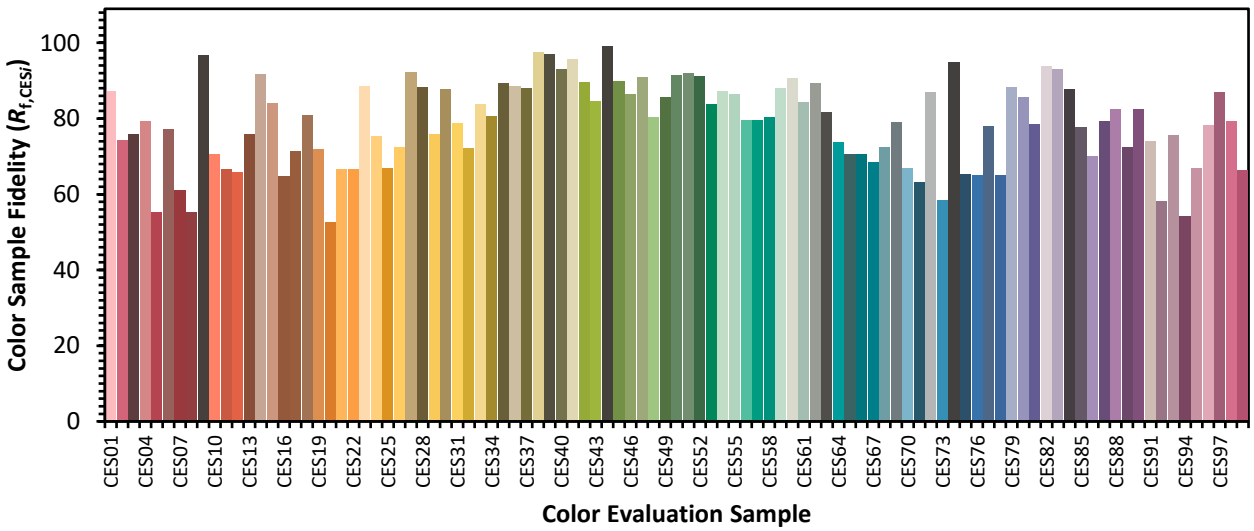


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

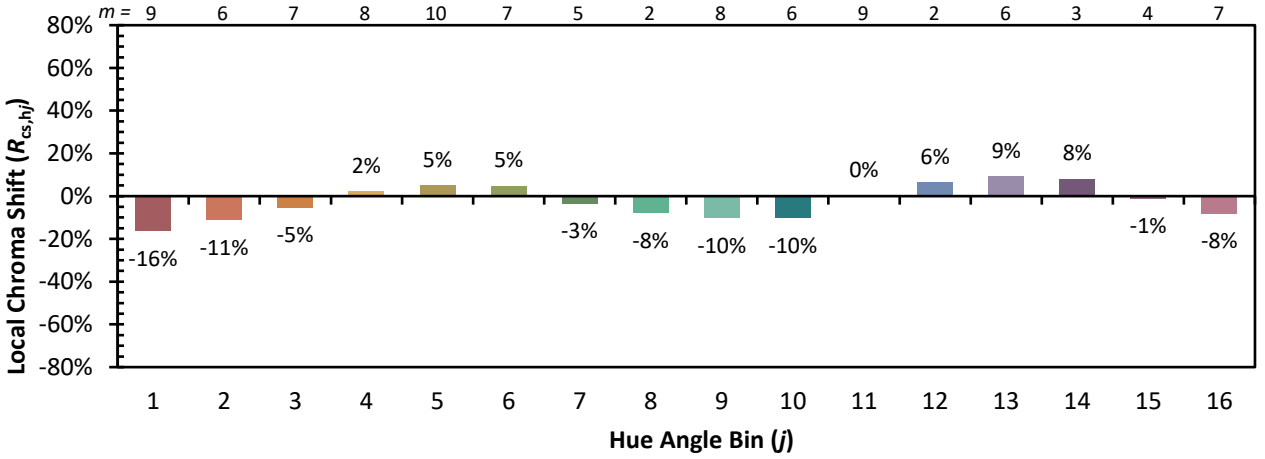
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

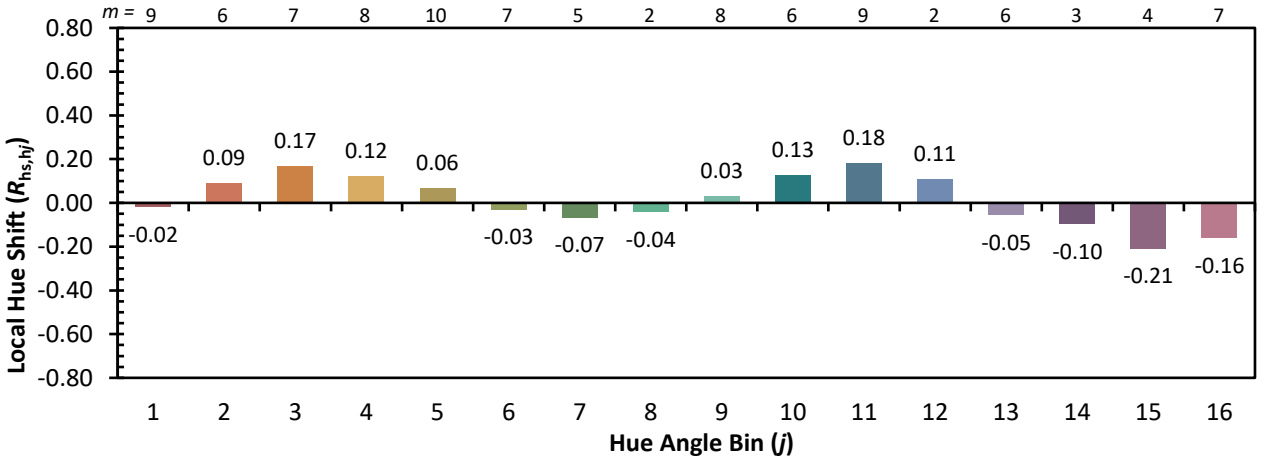


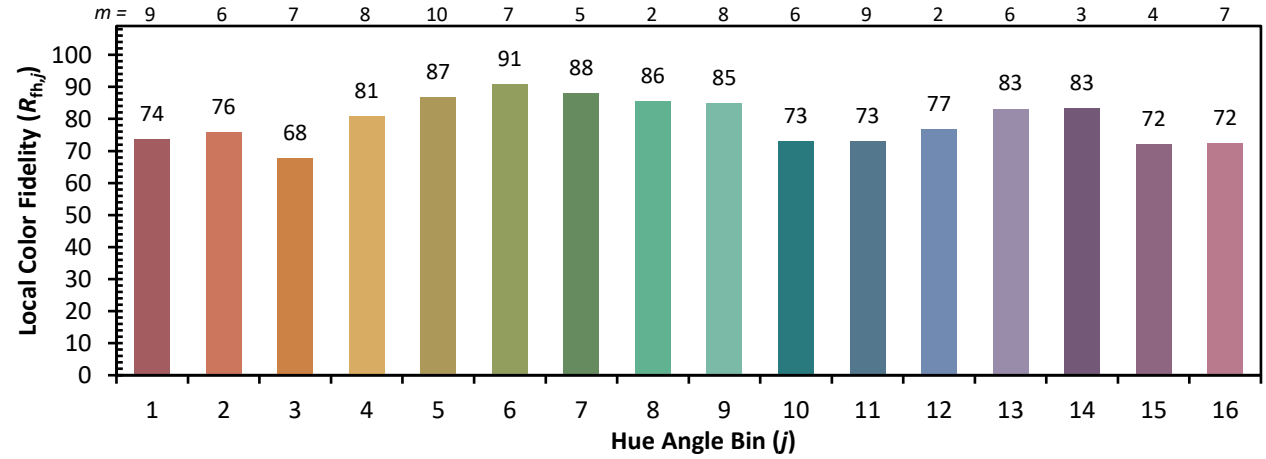
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Color Rendition by Hue-Angle Bin



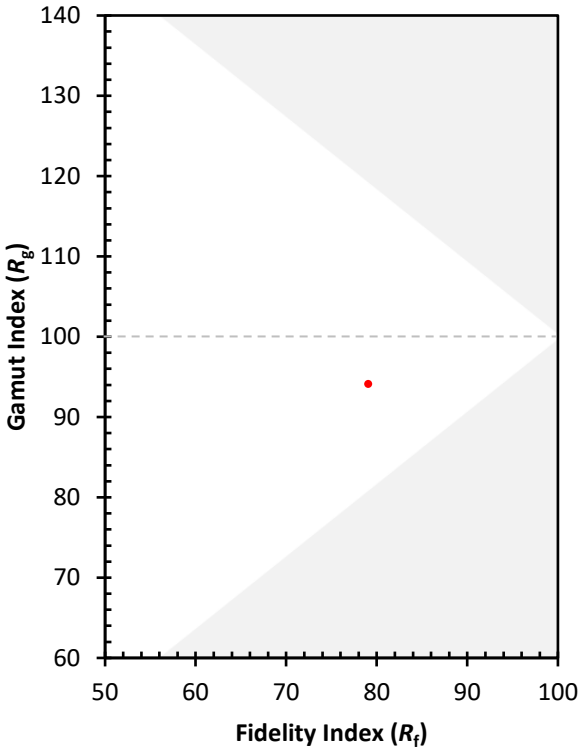


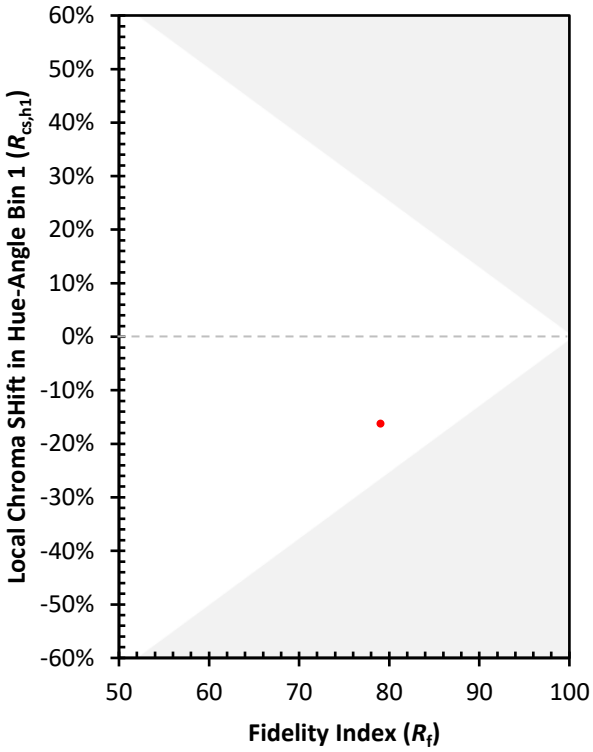


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Measure Comparisons





(END OF REPORT)