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: P1046576

Luminaire Tested: **FFX-CLB-30-740-U-FR-T3-UPLR-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:	P1046576
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-740-U-FR-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4546.7 lumens
Efficiency:	N/A
Efficacy:	148.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - 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

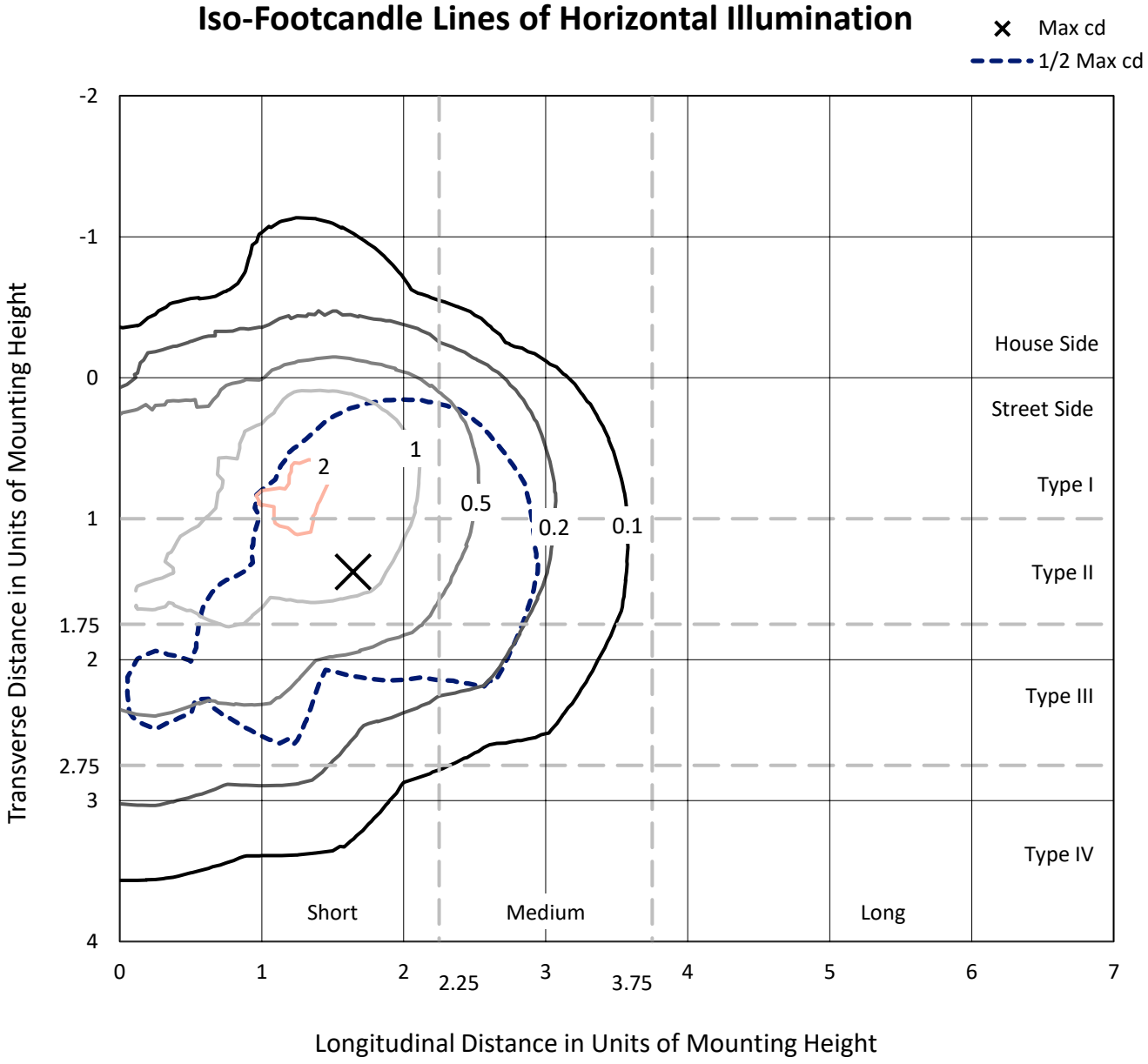


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Iso-Footcandle Lines of Horizontal Illumination



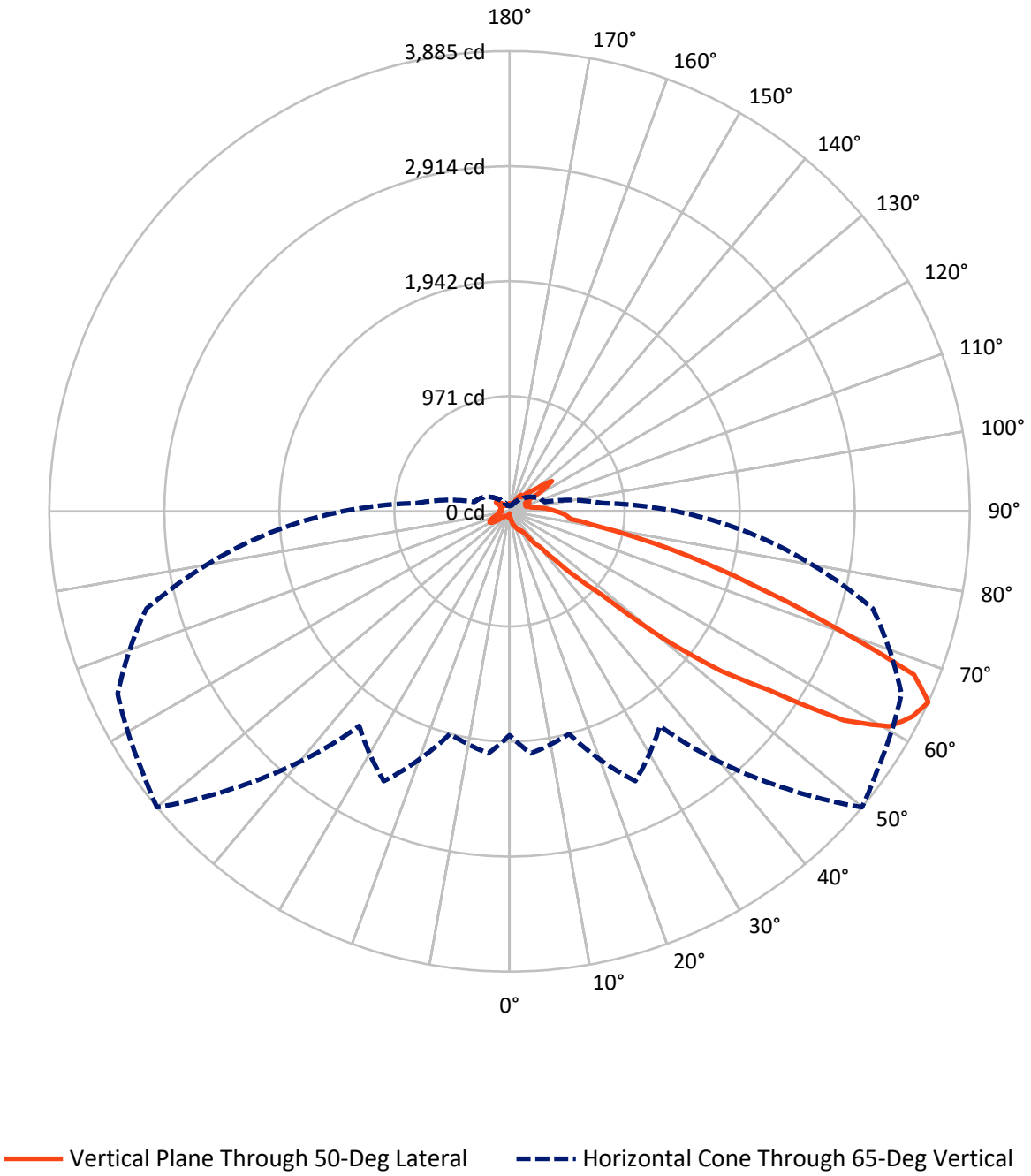
Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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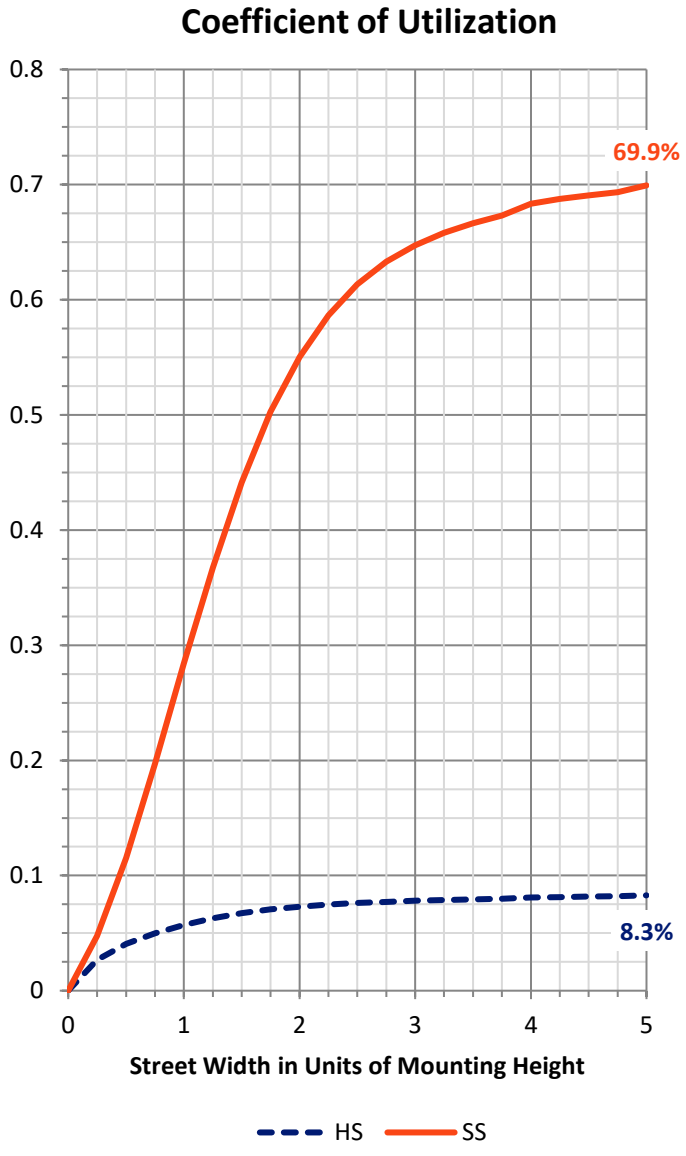
REPORT NUMBER: P1046576
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	398.8	262.5	661.4
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	3288.9	596.4	3885.3
	% Fixture	72.3	13.1	85.5
Total	Lumens	3687.8	858.9	4546.7
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	23.7	0.5
20°-30°	50.7	1.1
30°-40°	101.2	2.2
40°-50°	265.1	5.8
50°-60°	878.1	19.3
60°-70°	1384.8	30.5
70°-80°	723.1	15.9
80°-90°	256.8	5.6
90°-100°	165.7	3.6
100°-110°	111.8	2.5
110°-120°	127.6	2.8
120°-130°	211.4	4.6
130°-140°	120.7	2.7
140°-150°	66.1	1.5
150°-160°	32.4	0.7
160°-170°	17.1	0.4
170°-180°	6.2	0.1
0°-90°	3687.8	81.1
0°-180°	4546.7	100.0



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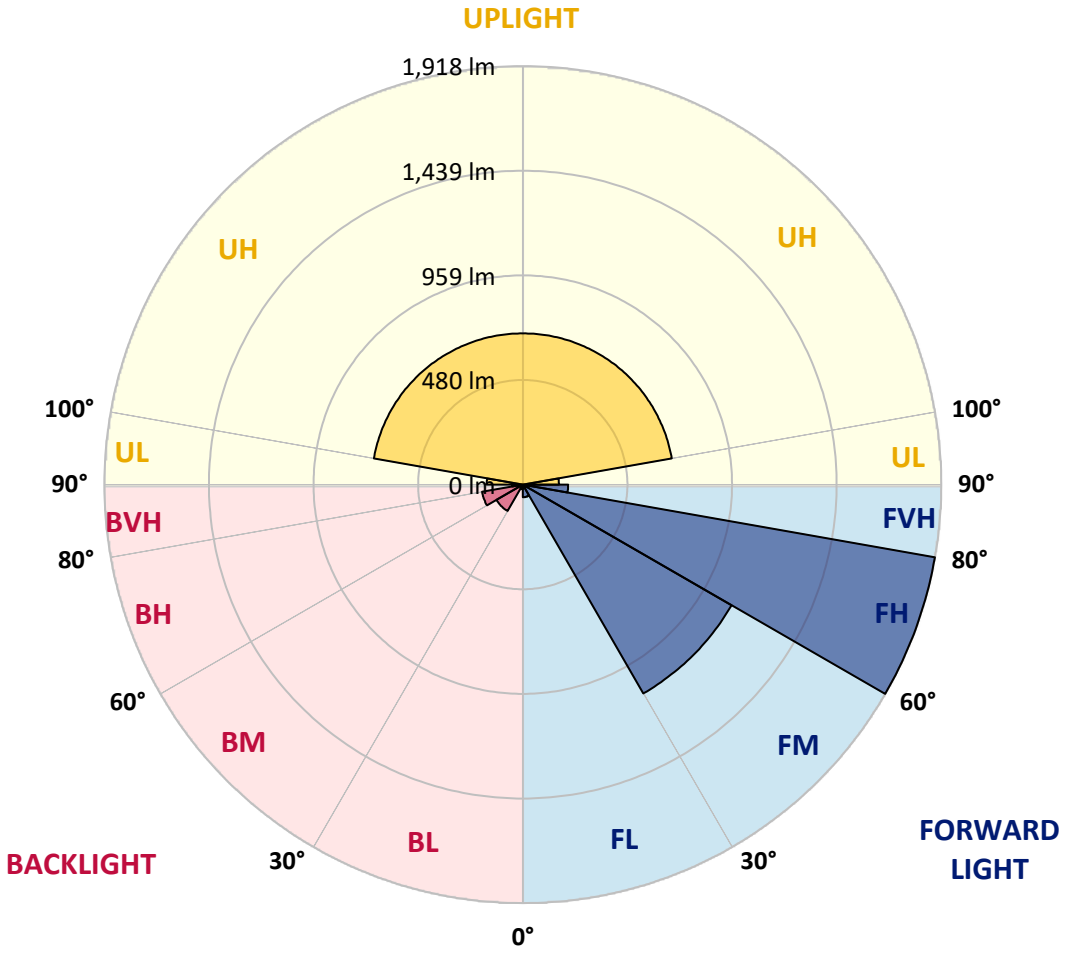
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	57.8	1.3			
FM	(30°-60°)	1104.9	24.3			
FH	(60°-80°)	1918.3	42.2			G2/5000
FVH	(80°-90°)	207.9	4.6			G2/225
BL	(0°-30°)	20.9	0.5	B0/110		
BM	(30°-60°)	139.4	3.1	B0/220		
BH	(60°-80°)	189.7	4.2	B1/500		G1/500
BVH	(80°-90°)	48.9	1.1			G1/100
UL	(90°-100°)	165.7	3.6		U3/500	
UH	(100°-180°)	693.2	15.2		U4/1000	

BUG Rating: B1-U4-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	30.8	30.5	31.2	32.1	31.8	30.8	30.2	29.9	28.9	28.6	27.6
5°	45.6	45.3	44.7	45.3	45.6	44.3	43.7	42.1	40.5	37.6	36.0
7.5°	63.9	64.3	64.9	63.3	62.7	59.8	59.1	57.5	54.9	51.4	50.4
10°	86.8	87.1	88.7	86.1	81.9	78.4	77.8	78.4	81.3	72.3	66.8
12.5°	109.3	108.3	113.1	111.8	106.4	101.2	98.6	99.0	97.7	90.9	81.9
15°	130.1	130.1	133.7	135.0	129.2	117.3	113.4	112.5	111.8	104.8	92.2
17.5°	143.3	144.0	144.3	144.3	142.3	132.4	127.9	126.0	120.2	113.8	102.2
20°	154.2	154.6	151.7	152.0	154.9	146.2	141.7	137.8	131.7	125.0	110.5
22.5°	169.3	168.7	164.2	162.3	168.7	161.3	156.5	152.3	144.9	137.2	124.0
25°	186.0	185.4	180.9	176.1	180.6	173.8	168.7	164.8	158.1	153.0	126.0
27.5°	202.1	201.5	193.8	193.1	189.3	186.0	180.6	179.6	174.5	159.4	125.0
30°	214.0	213.4	205.0	205.3	195.4	197.9	189.9	189.3	183.2	163.2	127.2
32.5°	218.5	219.1	215.6	214.0	200.5	210.8	203.4	200.8	199.2	173.5	138.5
35°	234.9	240.0	245.5	247.4	235.2	254.5	239.4	237.5	241.3	211.1	172.9
37.5°	361.2	358.6	338.4	309.8	303.3	345.7	343.5	345.1	342.5	300.4	228.8
40°	361.5	363.1	350.2	332.9	312.7	356.0	389.1	359.9	402.6	327.4	251.0
42.5°	379.8	374.7	405.2	411.9	389.5	454.0	551.7	441.5	533.7	399.1	341.6
45°	449.5	449.5	455.0	458.2	450.2	612.5	801.4	616.0	713.3	499.3	410.0
47.5°	521.5	515.4	546.6	599.0	630.1	788.2	1057.8	813.9	967.5	671.3	569.1
50°	727.2	735.8	795.6	856.7	903.3	1173.5	1703.0	1394.6	1580.3	1032.1	868.9
52.5°	886.9	937.6	983.6	1154.9	1175.7	1603.4	2238.7	1871.1	2024.7	1450.2	1075.8
55°	1051.7	1152.3	1179.6	1482.0	1505.7	2060.4	2665.1	2370.1	2413.5	1911.9	1277.3
57.5°	1353.8	1494.2	1503.5	1826.1	1825.1	2654.5	3327.4	3086.4	3053.6	2434.7	1586.1
60°	1613.7	1773.7	1716.5	2163.5	2063.3	3092.5	3686.3	3443.4	3371.7	2854.0	1803.3
62.5°	1771.5	1927.7	1857.3	2385.9	2215.2	3302.0	3816.1	3674.4	3552.3	3107.9	1980.3
65°	1889.1	2050.1	1944.7	2512.1	2212.3	3312.3	3884.9	3793.3	3650.3	3174.1	2019.2
67.5°	1873.7	2030.8	1904.5	2462.0	2057.8	3016.3	3682.7	3568.7	3391.9	2918.6	1888.4
70°	1624.6	1719.4	1580.6	2097.0	1645.2	2333.2	2868.8	2802.9	2633.0	2234.2	1460.8
72.5°	1367.6	1391.0	1260.9	1641.3	1282.7	1699.8	2179.9	2109.5	1998.0	1658.1	1104.1
75°	1056.2	1056.2	981.7	1230.7	953.1	1206.3	1650.0	1632.0	1563.3	1244.2	838.3
77.5°	713.3	676.1	664.8	831.3	658.4	795.9	1148.7	1191.2	1173.2	890.7	611.2
80°	415.8	424.8	409.1	513.2	433.2	520.6	737.1	793.0	791.4	591.6	401.0
82.5°	324.2	330.6	314.3	369.5	330.6	409.7	516.7	513.2	525.4	428.7	301.7
85°	319.4	324.2	307.2	341.6	317.5	389.1	485.5	484.6	482.0	396.8	283.4
87.5°	290.5	296.9	282.1	309.8	287.9	355.4	441.2	446.3	438.9	372.1	272.5
90°	242.9	249.7	243.2	275.4	252.9	306.5	383.7	387.5	381.1	331.6	245.8
92.5°	218.5	223.0	215.3	243.2	219.5	269.3	339.0	341.3	331.3	291.8	212.7
95°	201.5	206.0	196.3	216.9	193.8	237.5	288.6	295.9	281.2	246.1	181.2
97.5°	167.4	164.5	160.7	178.3	160.3	187.0	220.8	226.2	216.9	190.9	144.3
100°	144.9	145.9	144.3	157.1	140.7	160.7	187.0	189.3	185.4	166.4	130.5
102.5°	140.4	140.7	143.6	152.3	133.4	147.8	170.3	171.6	170.6	152.6	120.5
105°	139.1	138.8	140.4	149.7	130.1	135.3	156.8	157.5	154.2	142.0	112.8
107.5°	131.4	132.4	132.1	140.4	127.9	128.5	142.3	142.0	141.4	130.1	106.7
110°	150.7	149.1	142.3	142.7	130.5	133.7	147.5	145.9	142.7	135.9	116.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	214.3	209.8	202.1	176.7	163.9	172.9	*182.2*	183.8	180.3	174.2	147.2
115°	237.8	237.1	228.5	211.8	169.3	172.6	*178.7*	181.2	185.4	173.5	150.7
117.5°	195.0	205.7	192.2	194.4	170.3	149.7	*148.8*	143.6	145.9	144.6	139.5
120°	246.1	248.1	220.8	215.6	198.9	205.7	*206.0*	206.6	199.9	167.4	147.5
122.5°	346.1	346.1	353.8	367.9	359.2	347.0	*340.0*	332.9	323.6	292.7	250.3
125°	438.9	438.3	434.1	441.2	432.5	437.3	*439.6*	441.5	431.5	393.9	336.1
127.5°	353.8	362.8	377.9	416.1	392.0	385.3	*378.8*	383.3	376.0	368.9	332.9
130°	274.1	275.1	299.8	324.2	322.3	300.8	*293.4*	280.5	283.4	282.4	260.9
132.5°	234.2	235.5	250.0	263.8	275.4	259.6	*245.2*	238.4	240.7	239.1	225.3
135°	204.7	204.7	199.5	197.9	207.6	222.0	*220.4*	211.8	207.6	202.8	182.2
137.5°	177.1	176.4	167.1	161.9	169.7	188.3	*189.6*	189.6	185.4	173.8	159.1
140°	145.9	144.9	140.1	141.1	143.0	155.5	*156.5*	159.4	158.7	149.4	131.4
142.5°	110.5	110.9	117.9	126.0	130.5	157.5	*153.3*	150.1	160.3	159.7	114.7
145°	147.5	144.3	144.3	140.7	151.3	178.0	*169.7*	172.2	185.7	173.2	124.0
147.5°	135.3	136.9	137.2	136.6	150.1	151.7	*145.6*	145.9	150.7	150.7	126.9
150°	104.8	102.2	102.8	104.1	118.2	117.3	*111.8*	111.5	115.4	114.4	103.8
152.5°	82.9	82.6	82.3	83.5	95.1	90.3	*88.0*	87.1	86.4	85.5	82.9
155°	78.1	77.8	77.1	78.7	85.5	83.2	*81.9*	81.9	80.3	78.7	77.1
157.5°	69.4	69.1	69.4	72.6	76.5	73.9	*73.6*	73.3	72.6	70.7	70.0
160°	64.9	64.6	65.2	67.8	69.4	67.2	*66.5*	66.8	66.5	65.6	66.8
162.5°	61.4	61.4	61.4	63.0	63.6	62.0	*61.7*	62.0	62.3	62.3	63.9
165°	59.4	59.4	59.8	60.7	60.7	60.1	*59.4*	59.4	61.1	61.7	63.0
167.5°	60.7	60.7	61.1	61.4	61.4	60.7	*60.7*	61.1	62.0	62.7	62.7
170°	62.7	62.7	62.7	63.0	62.7	61.7	*61.7*	61.7	62.0	62.0	62.3
172.5°	64.9	64.9	64.9	64.6	63.9	63.6	*63.0*	63.0	63.3	63.0	63.3
175°	68.1	67.8	67.8	67.5	67.2	66.8	*66.5*	66.2	66.2	65.2	65.2
177.5°	69.7	69.4	69.7	69.7	69.4	68.8	*68.1*	68.1	67.8	67.2	66.8
180°	67.2	67.2	67.2	67.2	67.2	67.2	*67.2*	67.2	67.2	67.2	67.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
2.5°	27.0	26.0	23.5	21.2	19.6	19.0	19.0	18.0	16.7	15.7	15.4
5°	35.7	35.0	34.1	32.8	29.9	26.0	22.8	21.5	20.9	20.6	20.2
7.5°	50.4	51.1	52.4	52.1	46.6	36.3	30.2	29.9	33.4	37.3	38.6
10°	65.2	64.6	68.8	72.3	58.8	41.1	31.2	30.2	35.0	41.8	42.7
12.5°	78.1	74.9	72.6	68.8	56.2	41.1	33.4	31.5	33.7	38.9	38.9
15°	87.7	83.5	74.2	65.2	54.0	42.4	34.7	33.4	33.4	31.8	32.1
17.5°	95.1	87.4	73.9	62.3	50.1	40.5	34.4	30.8	28.9	26.3	25.7
20°	103.8	98.3	80.3	64.3	49.5	39.2	33.4	29.2	27.0	26.0	25.7
22.5°	113.1	101.9	84.5	64.9	49.5	39.8	33.1	28.6	26.7	26.0	26.0
25°	114.1	104.4	86.8	67.5	51.1	41.1	33.7	28.9	27.0	26.3	26.0
27.5°	112.8	106.0	90.6	70.4	52.7	42.4	35.0	29.6	27.0	26.0	25.7
30°	117.6	112.1	95.1	72.3	54.3	44.0	36.3	30.8	27.6	25.7	25.4
32.5°	129.8	122.1	101.2	73.6	54.9	44.3	37.6	32.1	28.3	26.0	25.7
35°	161.9	154.9	124.7	78.1	54.9	45.0	38.6	33.1	28.9	26.3	26.0
37.5°	208.5	195.4	153.3	93.2	55.6	46.3	39.5	34.4	29.9	27.0	26.3
40°	221.1	186.7	130.1	83.5	56.9	47.6	41.1	35.7	31.2	28.0	27.6
42.5°	286.9	238.7	160.7	88.4	60.7	48.5	42.1	37.0	32.1	28.9	28.3
45°	307.2	239.1	163.2	102.2	71.3	52.7	43.7	37.9	32.8	29.6	29.2
47.5°	402.6	296.6	166.4	109.6	80.0	60.7	47.6	39.2	33.4	30.2	29.9
50°	590.3	418.4	206.6	136.9	99.0	74.2	55.9	41.8	34.1	31.2	30.5
52.5°	736.5	501.9	224.0	167.4	131.4	98.0	70.4	48.5	36.0	31.8	31.2
55°	897.8	616.6	254.5	201.8	159.4	122.7	89.3	58.5	39.8	32.8	32.1
57.5°	1119.8	736.2	298.8	238.1	193.4	143.3	101.9	68.4	45.0	35.0	33.7
60°	1254.8	786.9	305.9	257.7	213.7	159.7	107.3	72.6	50.4	38.2	36.3
62.5°	1384.0	822.0	307.8	265.4	218.5	162.9	108.0	70.7	52.4	42.7	40.2
65°	*1410.3*	*787.3*	*308.5*	*267.0*	*212.7*	*154.6*	*104.4*	*68.8*	*50.1*	*46.6*	*46.9*
67.5°	1321.3	699.2	286.0	255.5	197.3	137.8	93.8	65.9	49.5	45.9	46.9
70°	1038.9	547.9	261.2	236.8	167.4	117.3	83.5	62.0	49.5	44.3	43.4
72.5°	806.5	468.2	267.7	224.9	143.3	104.8	75.5	57.8	47.9	44.0	43.4
75°	625.9	390.7	263.8	197.9	117.0	90.0	67.8	53.0	45.6	43.4	43.1
77.5°	457.6	308.2	218.2	151.7	97.0	76.5	59.8	49.8	44.3	42.4	42.1
80°	294.3	215.6	152.0	121.1	85.2	69.7	55.9	47.6	43.7	42.4	42.1
82.5°	248.1	195.7	136.9	114.7	82.3	71.0	58.5	49.8	45.9	44.7	44.3
85°	238.7	201.5	140.7	119.5	78.7	67.8	57.2	49.8	46.3	44.7	44.3
87.5°	226.9	182.2	138.8	109.9	75.8	65.2	56.2	51.1	47.6	46.6	46.3
90°	205.3	160.7	127.2	102.2	80.0	69.4	62.0	56.6	53.0	50.8	50.1
92.5°	173.2	129.2	109.3	100.9	87.7	78.7	71.3	66.5	62.7	60.4	59.4
95°	145.9	112.8	95.1	89.3	77.4	70.7	63.6	60.1	57.2	55.3	55.3
97.5°	118.9	96.7	88.4	83.9	74.2	66.8	61.1	57.5	56.6	55.9	55.6
100°	111.8	94.8	89.0	85.2	77.4	70.7	66.2	63.0	62.7	62.3	62.3
102.5°	103.8	89.7	83.2	79.4	71.7	65.9	62.7	60.1	59.1	58.2	57.2
105°	98.0	84.8	80.0	74.9	68.8	63.0	59.8	55.9	55.3	54.9	54.9
107.5°	95.1	84.2	81.6	73.6	67.8	65.2	61.4	56.6	55.6	54.3	54.3
110°	105.1	93.5	86.1	76.2	70.0	67.8	66.8	62.7	59.4	55.6	55.3

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

Scaled Data Report

REPORT NUMBER: P1046576
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	130.1	114.4	105.7	90.9	78.4	72.9	68.8	64.3	62.3	59.8	58.8
115°	140.1	124.0	113.1	98.3	83.9	74.2	68.1	67.5	65.6	63.9	65.6
117.5°	143.6	112.8	93.2	89.7	78.7	71.0	68.1	67.2	67.8	67.8	64.9
120°	154.9	121.8	114.4	109.9	89.3	76.8	70.4	73.6	72.9	69.1	69.1
122.5°	231.0	206.3	181.9	151.7	126.0	111.2	89.3	74.9	72.0	69.4	67.8
125°	304.3	282.1	243.9	203.7	159.4	117.9	88.7	78.4	72.9	69.7	70.4
127.5°	310.1	286.6	242.9	193.8	142.3	110.2	89.3	80.3	74.2	70.7	70.0
130°	242.3	225.6	192.8	156.8	120.8	98.6	82.6	73.6	68.1	64.9	64.3
132.5°	214.3	200.2	166.1	134.6	110.2	91.6	77.8	67.8	63.9	61.7	61.4
135°	171.3	159.4	136.6	119.5	102.5	87.1	73.3	63.9	60.4	60.1	59.4
137.5°	150.1	140.4	122.7	108.6	94.5	79.7	68.1	60.4	58.8	59.1	58.2
140°	122.4	118.2	108.3	96.1	81.0	65.6	57.5	54.9	57.5	58.8	58.8
142.5°	105.1	99.6	88.4	74.2	64.6	57.5	56.6	55.6	56.9	57.5	57.5
145°	96.7	90.3	81.0	75.8	71.3	65.2	60.1	55.6	54.3	54.6	54.6
147.5°	109.3	101.9	95.8	86.1	75.2	64.9	57.2	52.1	52.1	53.3	53.7
150°	90.6	84.2	80.0	74.5	66.2	57.8	52.4	49.8	50.8	53.3	53.7
152.5°	75.8	68.1	65.6	62.3	57.8	53.3	50.8	49.5	51.1	53.0	53.0
155°	73.9	67.2	63.9	60.7	56.6	52.7	50.4	49.8	51.4	52.7	53.0
157.5°	69.4	65.6	61.4	58.8	55.6	52.7	51.1	50.4	51.7	52.7	53.0
160°	66.8	64.6	59.8	57.5	54.6	52.7	52.4	52.4	53.0	53.3	53.3
162.5°	63.9	62.7	59.8	57.8	55.9	54.9	55.6	55.9	55.9	55.6	55.6
165°	63.0	62.3	59.8	58.2	57.2	57.5	58.8	59.1	58.2	57.5	57.5
167.5°	62.7	62.7	60.7	59.4	59.1	59.8	61.1	61.1	60.1	58.8	58.5
170°	62.7	63.0	62.3	62.3	61.7	62.0	62.3	62.3	61.7	61.1	60.7
172.5°	63.6	63.6	63.6	63.6	63.3	63.6	63.9	63.9	63.9	63.6	63.6
175°	65.2	65.2	65.2	64.9	64.6	64.6	64.9	65.2	65.6	65.6	65.6
177.5°	66.8	66.5	66.2	66.5	66.2	66.2	66.8	67.2	67.5	67.5	67.5
180°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2

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: SP1-2501-332-11

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

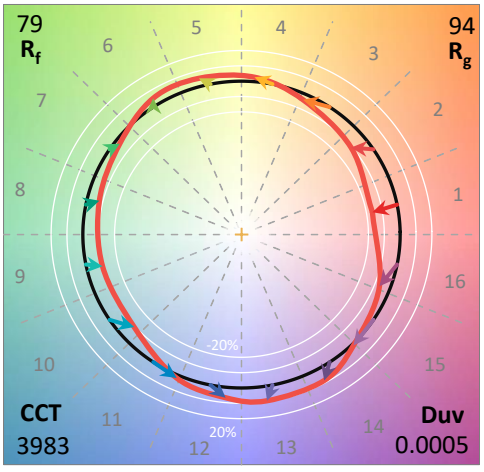
Test Information

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

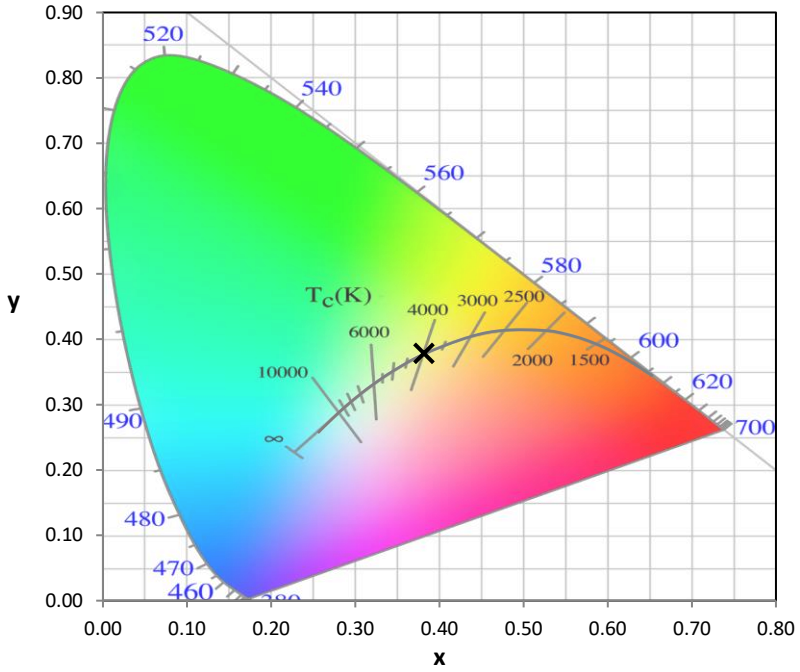
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

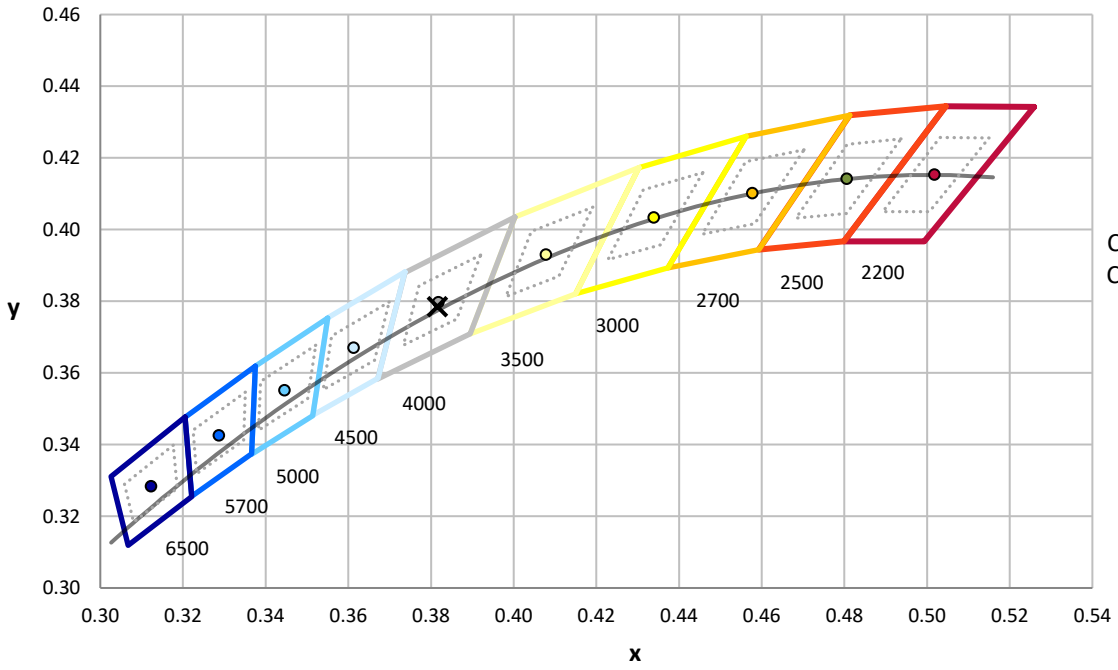
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

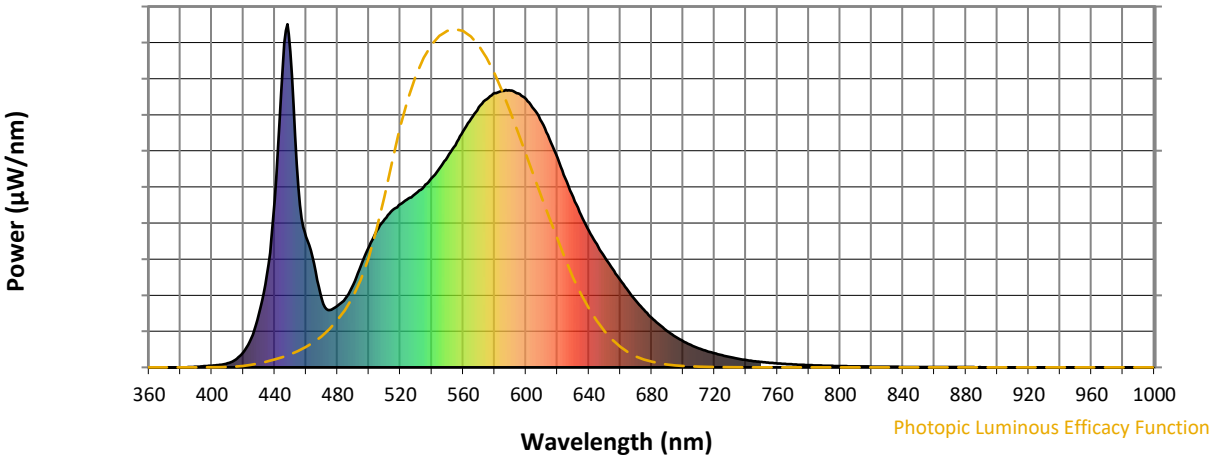


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

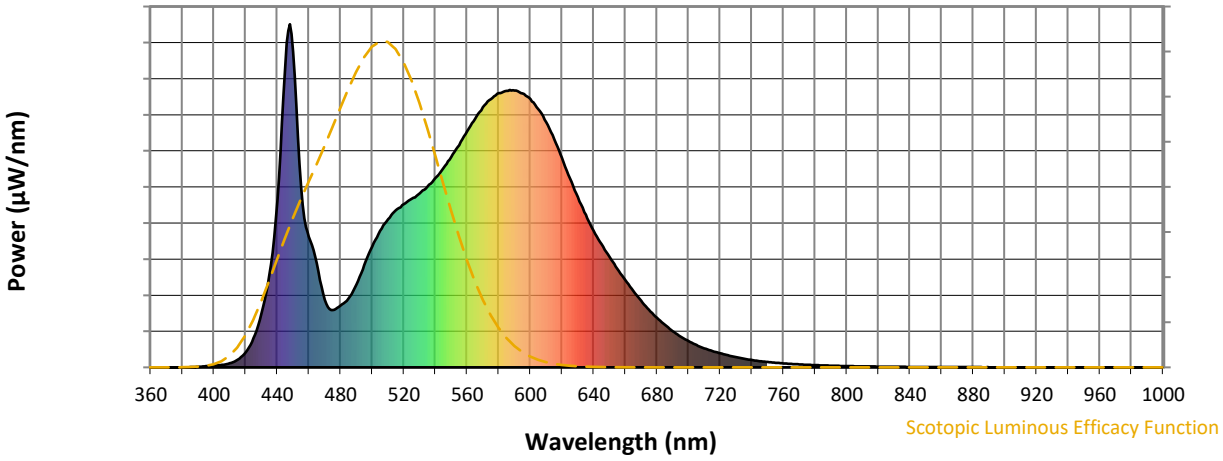


Photopic Lumens: NR

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

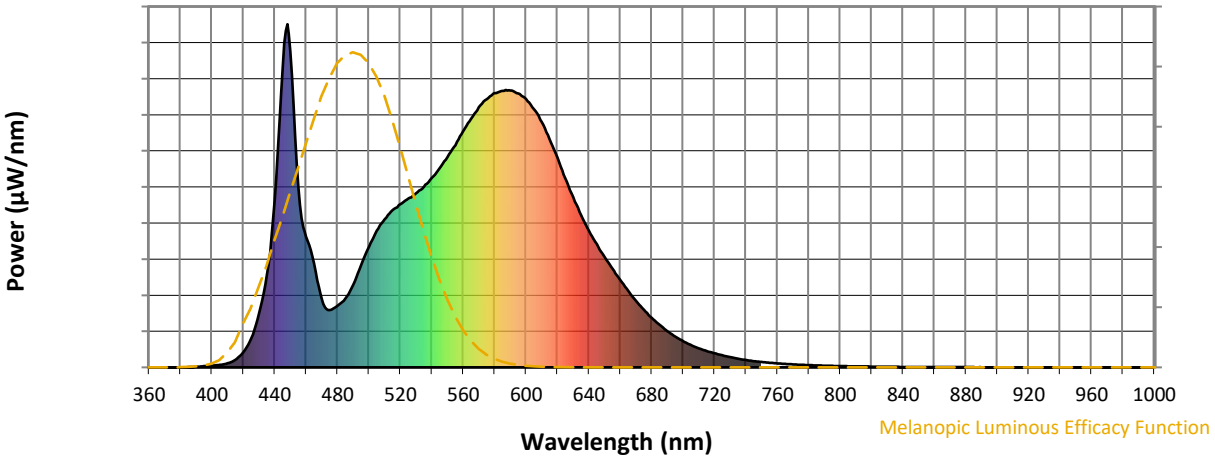


Scotopic Lumens: NR **S/P: 1.61**

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			

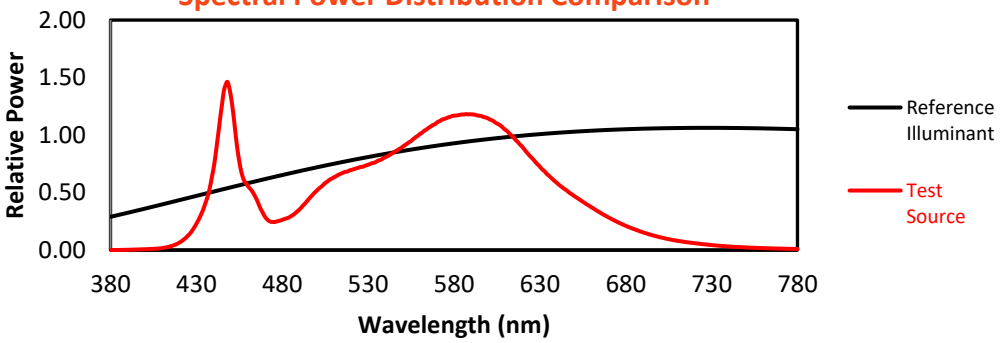
REPORT NUMBER: SP1-2501-332-11

TM-30-18

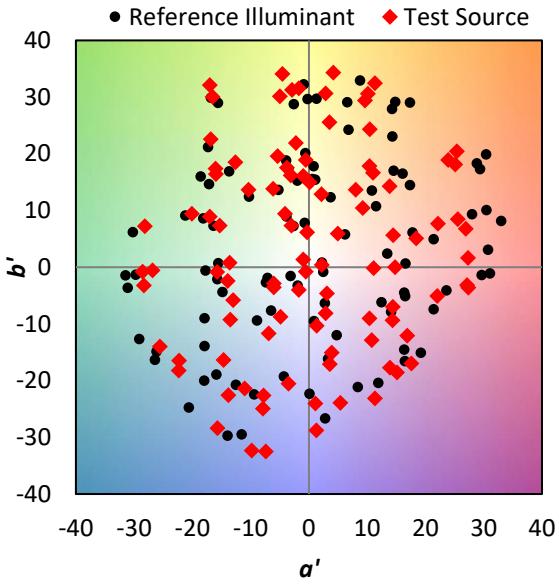
Summary

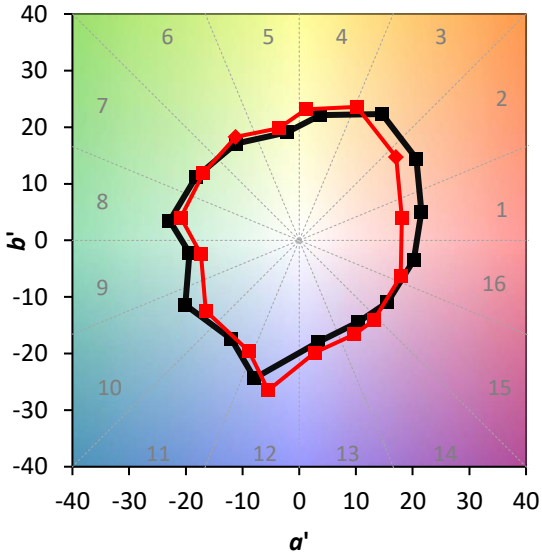
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

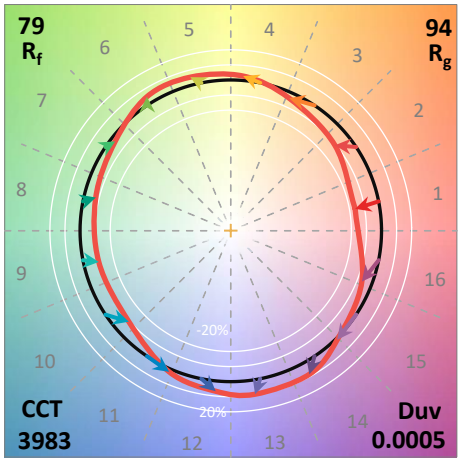
Spectral Power Distribution Comparison

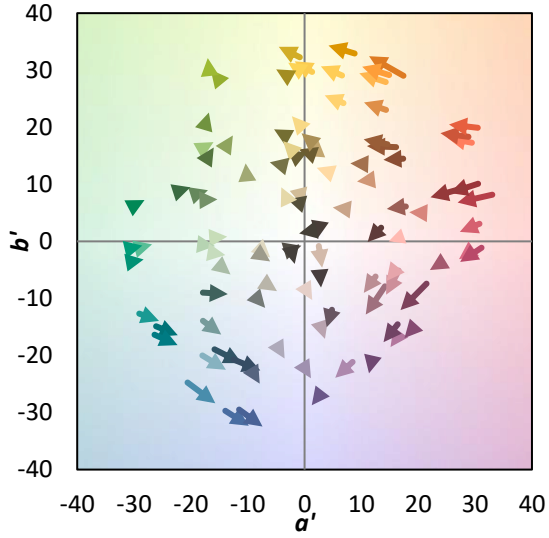


Color Vector Graphics







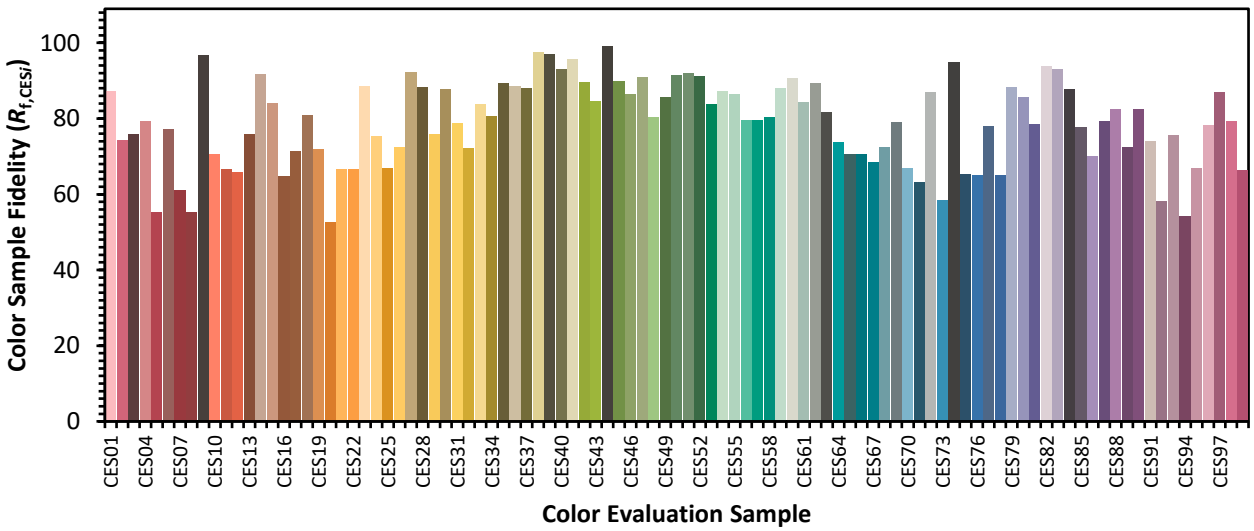


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

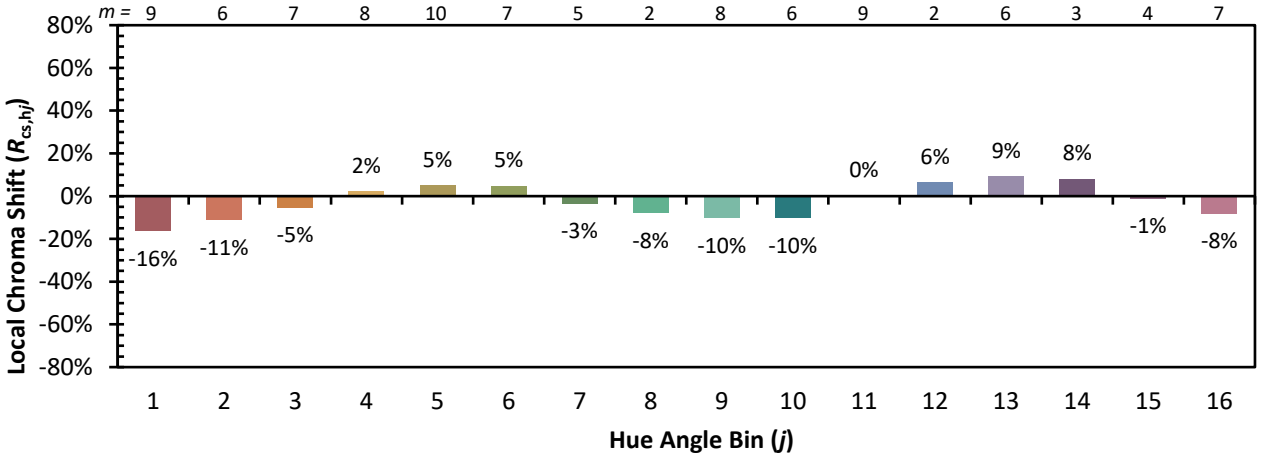
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 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	

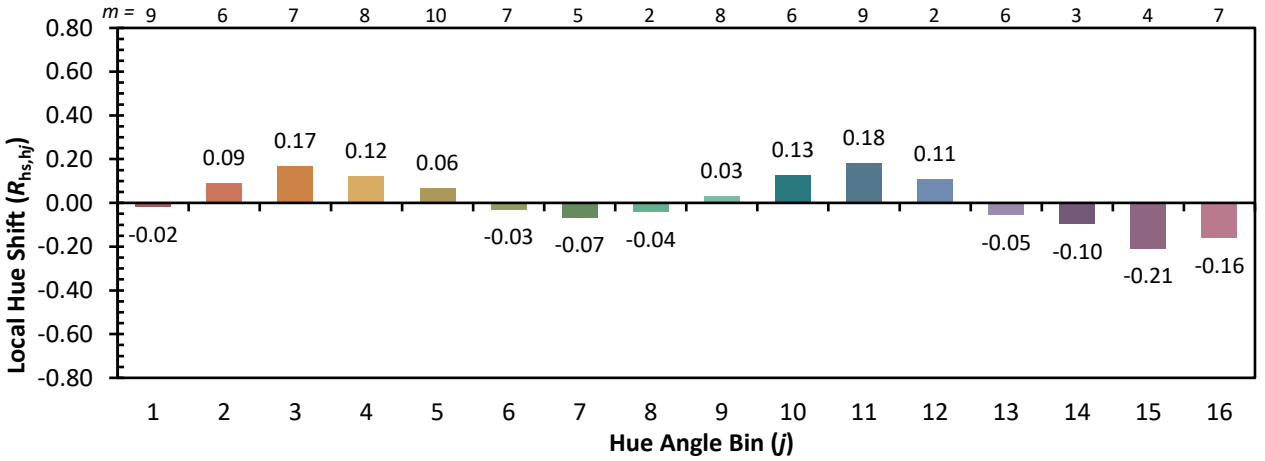


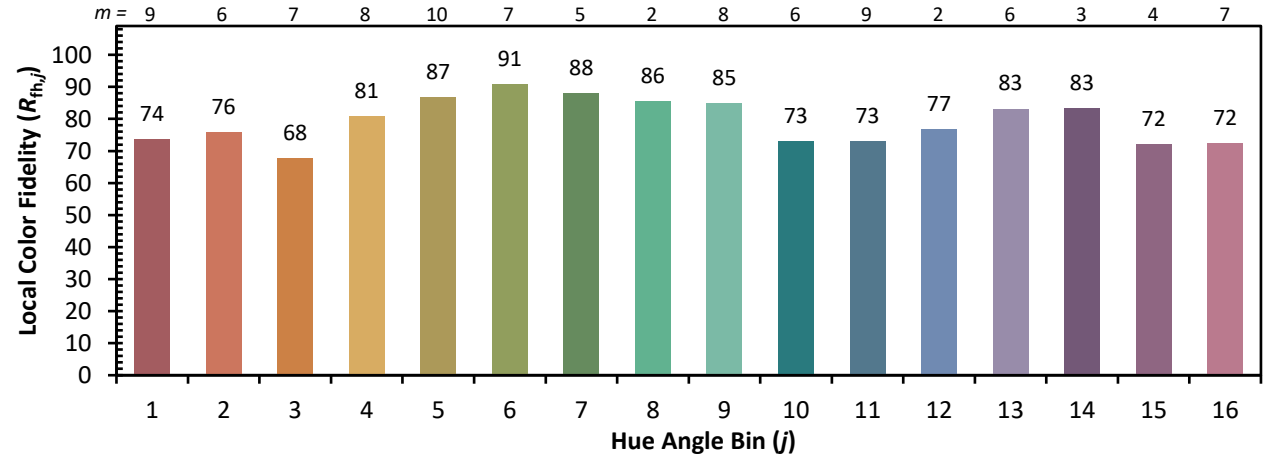
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Color Rendition by Hue-Angle Bin



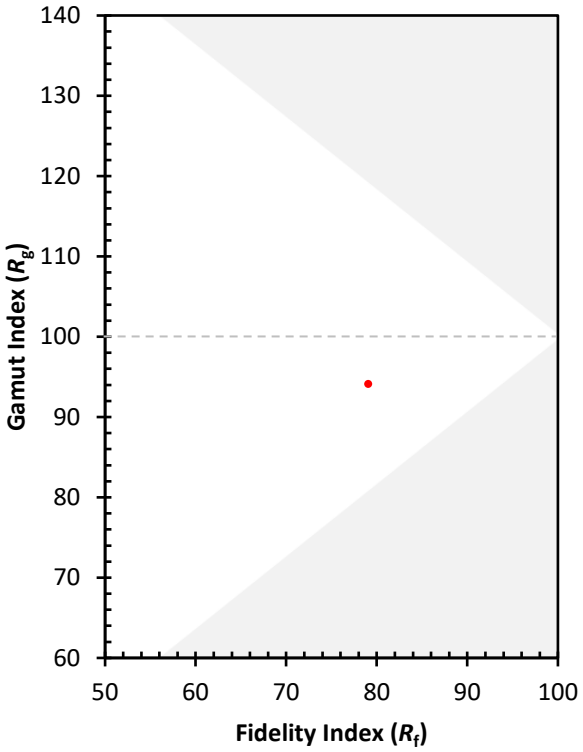


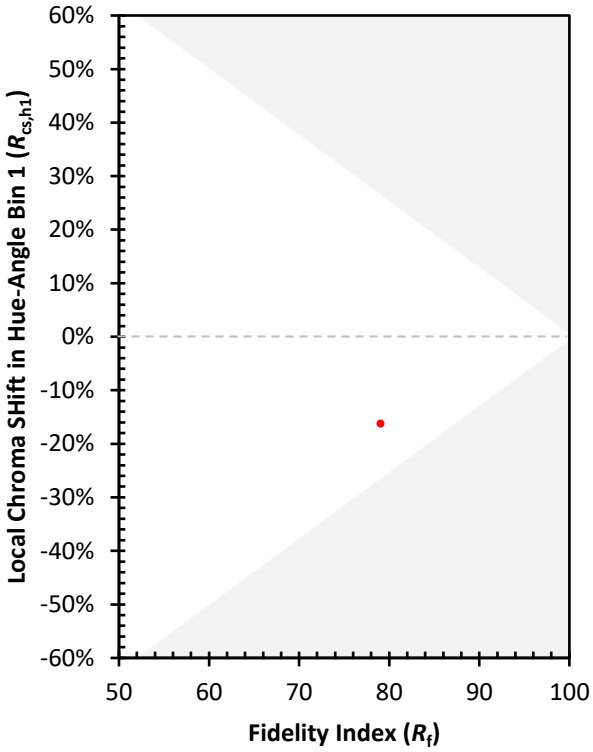


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Measure Comparisons





(END OF REPORT)