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: P1046574

Luminaire Tested: **FFX-CLB-50-740-U-FR-T3-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:	P1046574
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-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:	7423.9 lumens
Efficiency:	N/A
Efficacy:	146.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U5 - 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

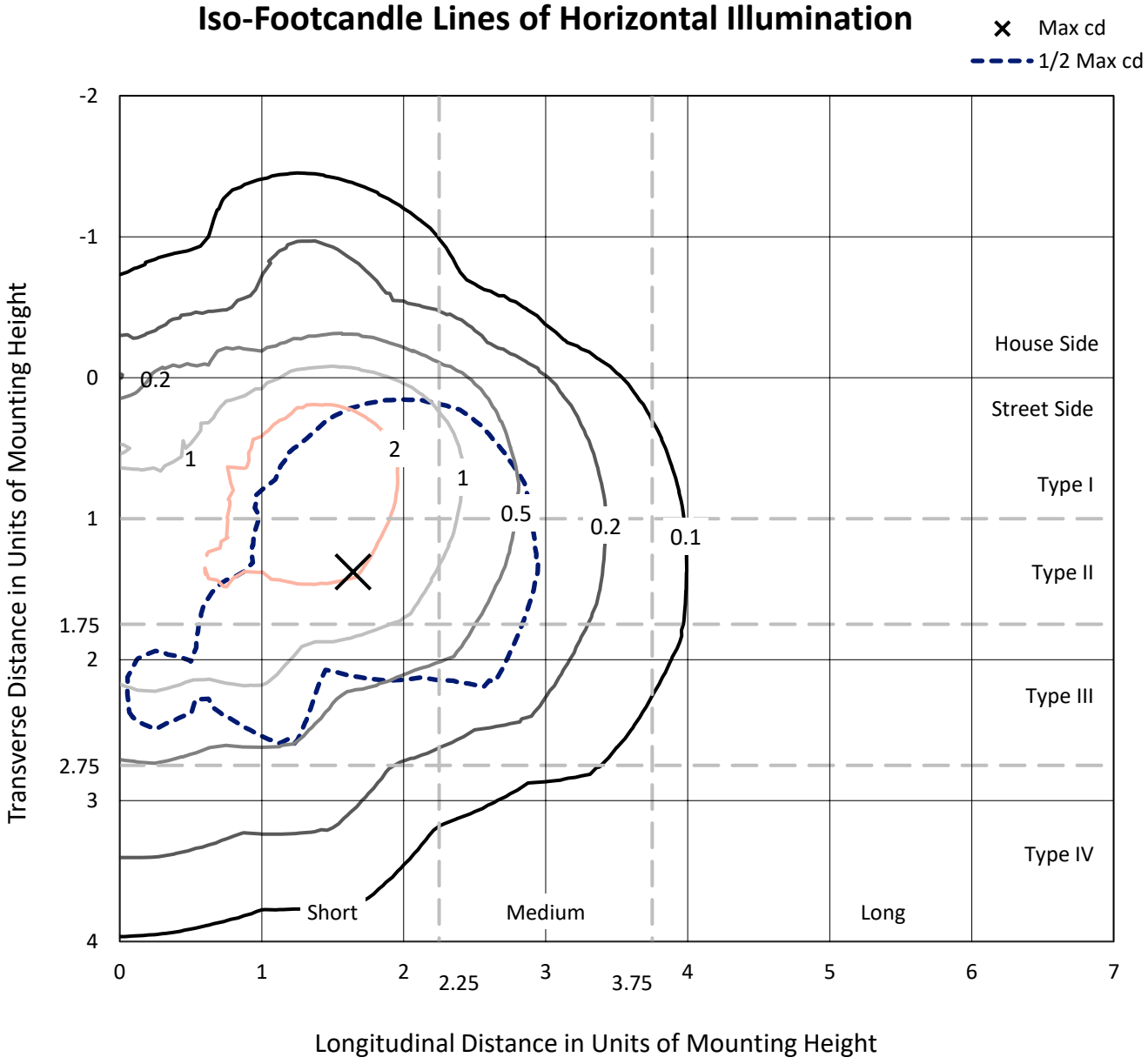


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Iso-Footcandle Lines of Horizontal Illumination



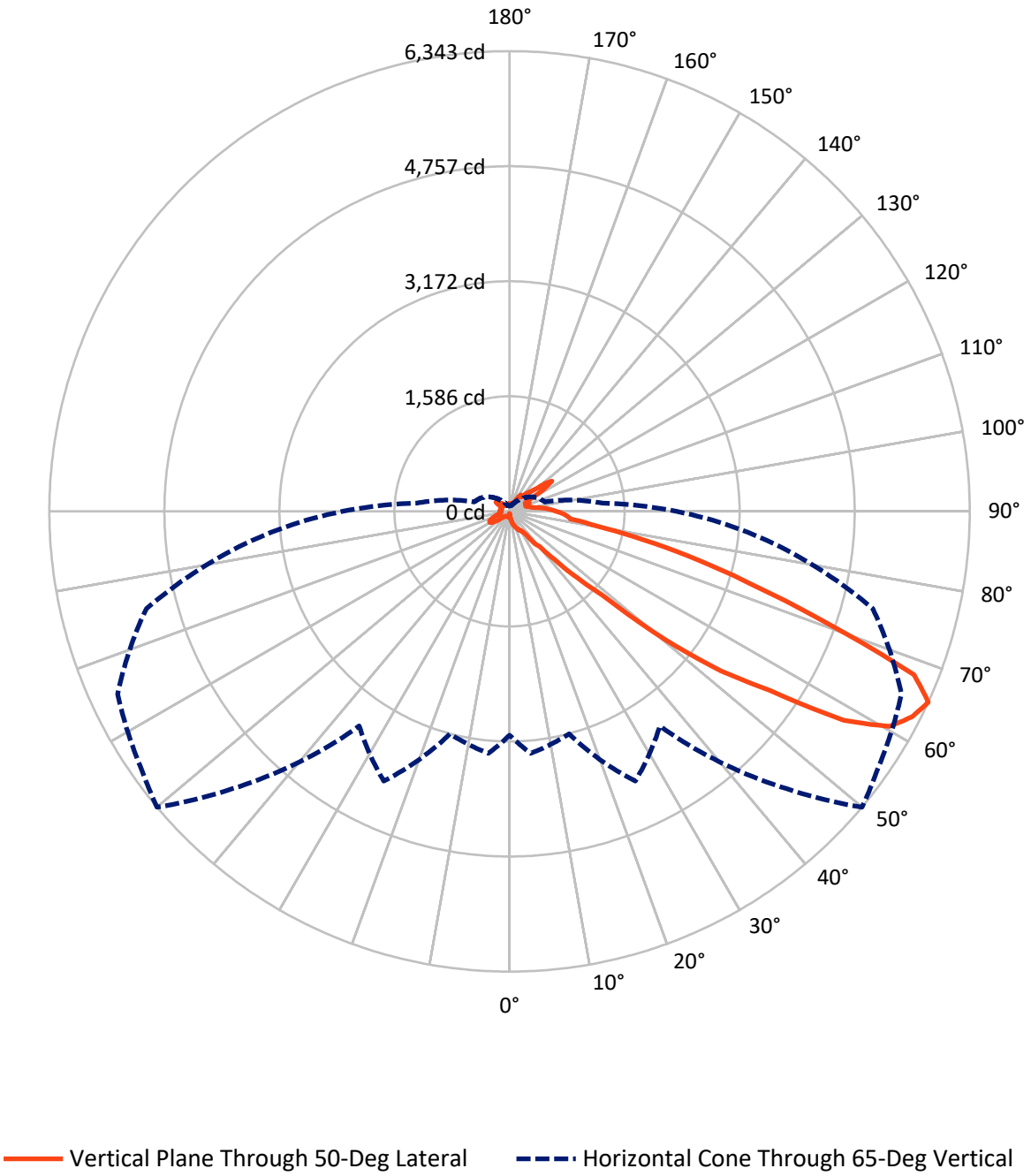
Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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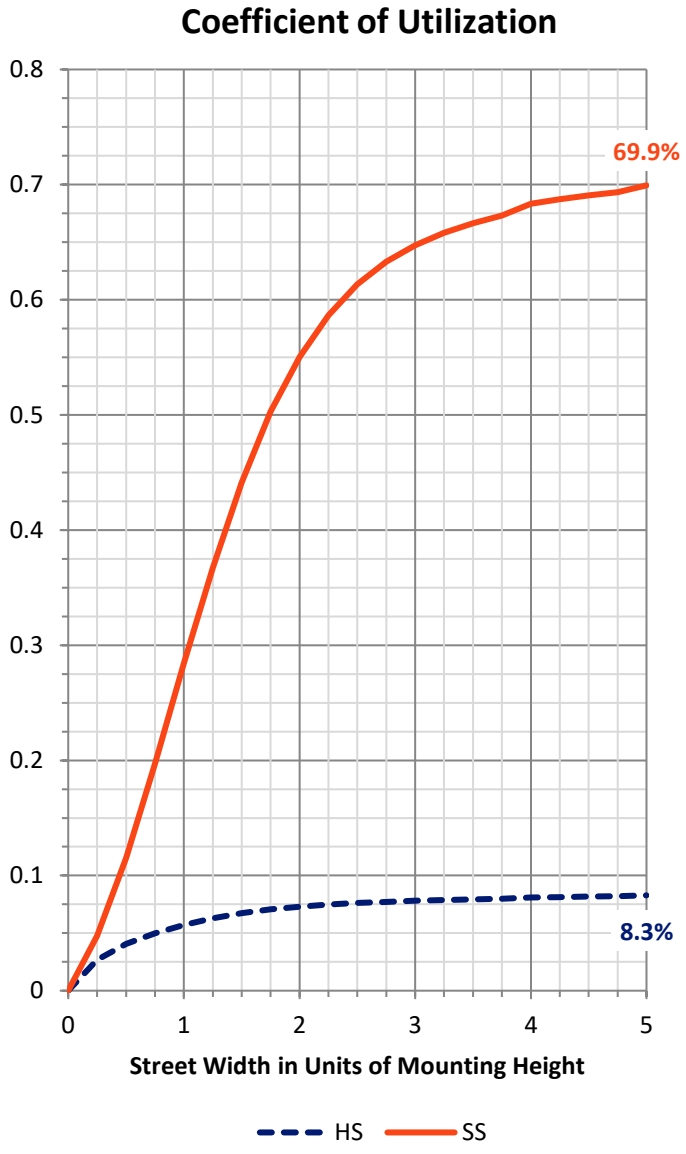
REPORT NUMBER: P1046574
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	651.2	428.7	1079.9
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	5370.3	973.8	6344.1
	% Fixture	72.3	13.1	85.5
Total	Lumens	6021.5	1402.5	7423.9
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.1
10°-20°	38.7	0.5
20°-30°	82.7	1.1
30°-40°	165.2	2.2
40°-50°	432.8	5.8
50°-60°	1433.8	19.3
60°-70°	2261.2	30.5
70°-80°	1180.7	15.9
80°-90°	419.3	5.6
90°-100°	270.6	3.6
100°-110°	182.5	2.5
110°-120°	208.3	2.8
120°-130°	345.1	4.6
130°-140°	197.1	2.7
140°-150°	108.0	1.5
150°-160°	52.9	0.7
160°-170°	28.0	0.4
170°-180°	10.1	0.1
0°-90°	6021.5	81.1
0°-180°	7423.9	100.0



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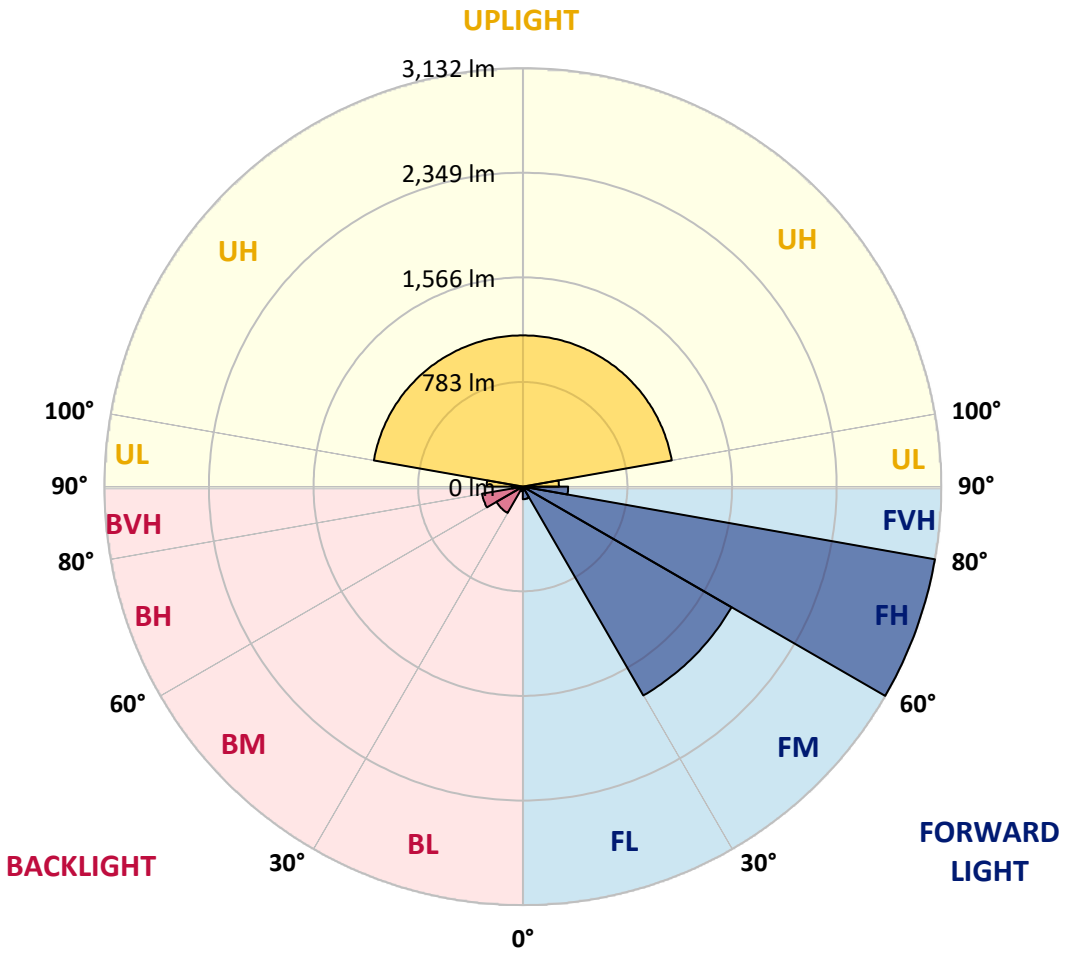
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	94.4	1.3			
FM	(30°-60°)	1804.1	24.3			
FH	(60°-80°)	3132.2	42.2			G2/5000
FVH	(80°-90°)	339.5	4.6			G3/500
BL	(0°-30°)	34.1	0.5	B0/110		
BM	(30°-60°)	227.6	3.1	B1/1000		
BH	(60°-80°)	309.7	4.2	B1/500		G1/500
BVH	(80°-90°)	79.8	1.1			G1/100
UL	(90°-100°)	270.6	3.6		U3/500	
UH	(100°-180°)	1131.9	15.2		U5	

BUG Rating: B1-U5-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	50.4	49.8	50.9	52.5	51.9	50.4	49.3	48.8	47.2	46.7	45.1
5°	74.5	74.0	72.9	74.0	74.5	72.4	71.4	68.7	66.1	61.4	58.8
7.5°	104.4	104.9	106.0	103.4	102.3	97.6	96.5	93.9	89.7	83.9	82.4
10°	141.7	142.2	144.8	140.6	133.8	128.0	127.0	128.0	132.7	118.1	109.1
12.5°	178.4	176.8	184.7	182.6	173.7	165.3	161.1	161.6	159.5	148.5	133.8
15°	212.5	212.5	218.3	220.4	210.9	191.5	185.2	183.6	182.6	171.0	150.6
17.5°	234.0	235.1	235.6	235.6	232.4	216.2	208.8	205.7	196.2	185.7	166.8
20°	251.8	252.4	247.6	248.2	252.9	238.7	231.4	225.1	215.1	204.1	180.5
22.5°	276.5	275.5	268.1	265.0	275.5	263.4	255.5	248.7	236.6	224.0	202.5
25°	303.8	302.7	295.4	287.5	294.9	283.8	275.5	269.2	258.1	249.7	205.7
27.5°	330.0	329.0	316.4	315.3	309.0	303.8	294.9	293.3	284.9	260.2	204.1
30°	349.4	348.4	334.7	335.3	319.0	323.2	310.1	309.0	299.1	266.5	207.8
32.5°	356.8	357.8	352.1	349.4	327.4	344.2	332.1	327.9	325.3	283.3	226.1
35°	383.5	391.9	400.8	404.0	384.1	415.5	390.9	387.7	394.0	344.7	282.3
37.5°	589.7	585.5	552.5	505.8	495.3	564.5	560.9	563.5	559.3	490.6	373.6
40°	590.3	592.9	571.9	543.6	510.5	581.3	635.4	587.6	657.4	534.6	409.8
42.5°	620.2	611.8	661.6	672.6	635.9	741.4	900.9	720.9	871.5	651.6	557.7
45°	734.0	734.0	742.9	748.2	735.1	1000.0	1308.5	1005.8	1164.8	815.3	669.5
47.5°	851.5	841.6	892.5	978.0	1028.9	1287.0	1727.2	1329.0	1579.8	1096.0	929.2
50°	1187.3	1201.5	1299.1	1398.8	1474.9	1916.1	2780.8	2277.1	2580.3	1685.2	1418.7
52.5°	1448.1	1531.0	1606.0	1885.7	1919.8	2618.1	3655.4	3055.2	3306.0	2367.8	1756.6
55°	1717.2	1881.5	1926.1	2419.8	2458.6	3364.2	4351.6	3870.0	3940.8	3121.8	2085.6
57.5°	2210.4	2439.7	2454.9	2981.7	2980.1	4334.3	5433.0	5039.5	4986.0	3975.4	2589.8
60°	2634.9	2896.2	2802.8	3532.6	3368.9	5049.4	6019.0	5622.4	5505.4	4660.1	2944.5
62.5°	2892.5	3147.5	3032.6	3895.7	3617.1	5391.5	6231.0	5999.6	5800.2	5074.6	3233.5
65°	3084.5	3347.4	3175.3	4101.9	3612.4	5408.3	6343.3	6193.7	5960.3	5182.7	3297.0
67.5°	3059.4	3315.9	3109.7	4020.0	3360.0	4925.1	6013.3	5827.0	5538.4	4765.6	3083.5
70°	2652.7	2807.5	2580.9	3424.0	2686.3	3809.6	4684.3	4576.7	4299.2	3648.0	2385.2
72.5°	2233.0	2271.3	2058.8	2680.0	2094.5	2775.5	3559.4	3444.5	3262.4	2707.3	1802.8
75°	1724.6	1724.6	1602.9	2009.5	1556.2	1969.6	2694.2	2664.8	2552.5	2031.5	1368.9
77.5°	1164.8	1103.9	1085.5	1357.3	1075.1	1299.6	1875.7	1945.0	1915.6	1454.4	997.9
80°	678.9	693.6	667.9	837.9	707.3	850.0	1203.6	1294.9	1292.3	965.9	654.8
82.5°	529.4	539.9	513.1	603.4	539.9	669.0	843.7	837.9	857.8	699.9	492.7
85°	521.5	529.4	501.6	557.7	518.4	635.4	792.8	791.2	787.0	648.0	462.8
87.5°	474.3	484.8	460.7	505.8	470.1	580.3	720.4	728.8	716.7	607.6	444.9
90°	396.7	407.7	397.2	449.6	412.9	500.5	626.5	632.8	622.3	541.5	401.4
92.5°	356.8	364.1	351.5	397.2	358.4	439.7	553.5	557.2	540.9	476.4	347.3
95°	329.0	336.3	320.6	354.2	316.4	387.7	471.2	483.2	459.1	401.9	295.9
97.5°	273.4	268.6	262.3	291.2	261.8	305.4	360.4	369.4	354.2	311.7	235.6
100°	236.6	238.2	235.6	256.6	229.8	262.3	305.4	309.0	302.7	271.8	213.0
102.5°	229.3	229.8	234.5	248.7	217.7	241.3	278.1	280.2	278.6	249.2	196.8
105°	227.2	226.7	229.3	244.5	212.5	220.9	256.0	257.1	251.8	231.9	184.2
107.5°	214.6	216.2	215.6	229.3	208.8	209.9	232.4	231.9	230.9	212.5	174.2
110°	246.1	243.4	232.4	233.0	213.0	218.3	240.8	238.2	233.0	221.9	189.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	350.0	342.6	330.0	288.6	267.6	282.3	*297.5*	300.1	294.3	284.4	240.3
115°	388.3	387.2	373.0	345.8	276.5	281.7	*291.7*	295.9	302.7	283.3	246.1
117.5°	318.5	335.8	313.8	317.4	278.1	244.5	*242.9*	234.5	238.2	236.1	227.7
120°	401.9	405.0	360.4	352.1	324.8	335.8	*336.3*	337.4	326.3	273.4	240.8
122.5°	565.1	565.1	577.7	600.7	586.6	566.6	*555.1*	543.6	528.3	478.0	408.7
125°	716.7	715.7	708.8	720.4	706.2	714.1	*717.8*	720.9	704.6	643.2	548.8
127.5°	577.7	592.4	617.0	679.4	640.1	629.1	*618.6*	625.9	613.9	602.3	543.6
130°	447.5	449.1	489.5	529.4	526.2	491.1	*479.0*	458.0	462.8	461.2	426.0
132.5°	382.5	384.6	408.2	430.8	449.6	423.9	*400.3*	389.3	393.0	390.4	367.8
135°	334.2	334.2	325.8	323.2	338.9	362.5	*359.9*	345.8	338.9	331.1	297.5
137.5°	289.1	288.0	272.8	264.4	277.0	307.5	*309.6*	309.6	302.7	283.8	259.7
140°	238.2	236.6	228.8	230.3	233.5	253.9	*255.5*	260.2	259.2	244.0	214.6
142.5°	180.5	181.0	192.6	205.7	213.0	257.1	*250.3*	245.0	261.8	260.8	187.3
145°	240.8	235.6	235.6	229.8	247.1	290.7	*277.0*	281.2	303.3	282.8	202.5
147.5°	220.9	223.5	224.0	223.0	245.0	247.6	*237.7*	238.2	246.1	246.1	207.2
150°	171.0	166.8	167.9	170.0	193.1	191.5	*182.6*	182.1	188.4	186.8	169.5
152.5°	135.4	134.8	134.3	136.4	155.3	147.4	*143.8*	142.2	141.1	139.6	135.4
155°	127.5	127.0	125.9	128.5	139.6	135.9	*133.8*	133.8	131.2	128.5	125.9
157.5°	113.3	112.8	113.3	118.6	124.9	120.7	*120.1*	119.6	118.6	115.4	114.4
160°	106.0	105.5	106.5	110.7	113.3	109.7	*108.6*	109.1	108.6	107.0	109.1
162.5°	100.2	100.2	100.2	102.8	103.9	101.3	*100.7*	101.3	101.8	101.8	104.4
165°	97.1	97.1	97.6	99.2	99.2	98.1	*97.1*	97.1	99.7	100.7	102.8
167.5°	99.2	99.2	99.7	100.2	100.2	99.2	*99.2*	99.7	101.3	102.3	102.3
170°	102.3	102.3	102.3	102.8	102.3	100.7	*100.7*	100.7	101.3	101.3	101.8
172.5°	106.0	106.0	106.0	105.5	104.4	103.9	*102.8*	102.8	103.4	102.8	103.4
175°	111.2	110.7	110.7	110.2	109.7	109.1	*108.6*	108.1	108.1	106.5	106.5
177.5°	113.9	113.3	113.9	113.9	113.3	112.3	*111.2*	111.2	110.7	109.7	109.1
180°	109.7	109.7	109.7	109.7	109.7	109.7	*109.7*	109.7	109.7	109.7	109.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	44.1	42.5	38.3	34.6	32.0	31.0	31.0	29.4	27.3	25.7	25.2
5°	58.2	57.2	55.6	53.5	48.8	42.5	37.3	35.2	34.1	33.6	33.1
7.5°	82.4	83.4	85.5	85.0	76.1	59.3	49.3	48.8	54.6	60.9	63.0
10°	106.5	105.5	112.3	118.1	96.0	67.2	50.9	49.3	57.2	68.2	69.8
12.5°	127.5	122.2	118.6	112.3	91.8	67.2	54.6	51.4	55.1	63.5	63.5
15°	143.2	136.4	121.2	106.5	88.1	69.3	56.7	54.6	54.6	51.9	52.5
17.5°	155.3	142.7	120.7	101.8	81.8	66.1	56.1	50.4	47.2	43.0	42.0
20°	169.5	160.5	131.2	104.9	80.8	64.0	54.6	47.7	44.1	42.5	42.0
22.5°	184.7	166.3	138.0	106.0	80.8	65.1	54.0	46.7	43.5	42.5	42.5
25°	186.3	170.5	141.7	110.2	83.4	67.2	55.1	47.2	44.1	43.0	42.5
27.5°	184.2	173.1	148.0	114.9	86.0	69.3	57.2	48.3	44.1	42.5	42.0
30°	192.0	183.1	155.3	118.1	88.7	71.9	59.3	50.4	45.1	42.0	41.4
32.5°	212.0	199.4	165.3	120.1	89.7	72.4	61.4	52.5	46.2	42.5	42.0
35°	264.4	252.9	203.6	127.5	89.7	73.5	63.0	54.0	47.2	43.0	42.5
37.5°	340.5	319.0	250.3	152.2	90.8	75.6	64.5	56.1	48.8	44.1	43.0
40°	361.0	304.8	212.5	136.4	92.9	77.7	67.2	58.2	50.9	45.6	45.1
42.5°	468.5	389.8	262.3	144.3	99.2	79.2	68.7	60.3	52.5	47.2	46.2
45°	501.6	390.4	266.5	166.8	116.5	86.0	71.4	61.9	53.5	48.3	47.7
47.5°	657.4	484.3	271.8	178.9	130.6	99.2	77.7	64.0	54.6	49.3	48.8
50°	963.8	683.1	337.4	223.5	161.6	121.2	91.3	68.2	55.6	50.9	49.8
52.5°	1202.5	819.5	365.7	273.4	214.6	160.0	114.9	79.2	58.8	51.9	50.9
55°	1465.9	1006.8	415.5	329.5	260.2	200.4	145.9	95.5	65.1	53.5	52.5
57.5°	1828.5	1202.0	487.9	388.8	315.9	234.0	166.3	111.8	73.5	57.2	55.1
60°	2048.8	1284.9	499.5	420.8	348.9	260.8	175.2	118.6	82.4	62.4	59.3
62.5°	2259.8	1342.1	502.6	433.4	356.8	266.0	176.3	115.4	85.5	69.8	65.6
65°	*2302.8*	*1285.4*	*503.7*	*436.0*	*347.3*	*252.4*	*170.5*	*112.3*	*81.8*	*76.1*	*76.6*
67.5°	2157.4	1141.7	467.0	417.1	322.1	225.1	153.2	107.6	80.8	75.0	76.6
70°	1696.3	894.6	426.6	386.7	273.4	191.5	136.4	101.3	80.8	72.4	70.8
72.5°	1316.9	764.4	437.1	367.3	234.0	171.0	123.3	94.4	78.2	71.9	70.8
75°	1022.1	638.0	430.8	323.2	191.0	146.9	110.7	86.6	74.5	70.8	70.3
77.5°	747.1	503.2	356.3	247.6	158.5	124.9	97.6	81.3	72.4	69.3	68.7
80°	480.6	352.1	248.2	197.8	139.0	113.9	91.3	77.7	71.4	69.3	68.7
82.5°	405.0	319.5	223.5	187.3	134.3	116.0	95.5	81.3	75.0	72.9	72.4
85°	389.8	329.0	229.8	195.2	128.5	110.7	93.4	81.3	75.6	72.9	72.4
87.5°	370.4	297.5	226.7	179.4	123.8	106.5	91.8	83.4	77.7	76.1	75.6
90°	335.3	262.3	207.8	166.8	130.6	113.3	101.3	92.3	86.6	82.9	81.8
92.5°	282.8	210.9	178.4	164.7	143.2	128.5	116.5	108.6	102.3	98.6	97.1
95°	238.2	184.2	155.3	145.9	126.4	115.4	103.9	98.1	93.4	90.2	90.2
97.5°	194.1	157.9	144.3	136.9	121.2	109.1	99.7	93.9	92.3	91.3	90.8
100°	182.6	154.8	145.3	139.0	126.4	115.4	108.1	102.8	102.3	101.8	101.8
102.5°	169.5	146.4	135.9	129.6	117.0	107.6	102.3	98.1	96.5	95.0	93.4
105°	160.0	138.5	130.6	122.2	112.3	102.8	97.6	91.3	90.2	89.7	89.7
107.5°	155.3	137.5	133.3	120.1	110.7	106.5	100.2	92.3	90.8	88.7	88.7
110°	171.6	152.7	140.6	124.3	114.4	110.7	109.1	102.3	97.1	90.8	90.2

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

Scaled Data Report

REPORT NUMBER: P1046574
CATALOG NUMBER: FFX-CLB-50-740-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	212.5	186.8	172.6	148.5	128.0	119.1	112.3	104.9	101.8	97.6	96.0
115°	228.8	202.5	184.7	160.5	136.9	121.2	111.2	110.2	107.0	104.4	107.0
117.5°	234.5	184.2	152.2	146.4	128.5	116.0	111.2	109.7	110.7	110.7	106.0
120°	252.9	198.9	186.8	179.4	145.9	125.4	114.9	120.1	119.1	112.8	112.8
122.5°	377.2	336.8	297.0	247.6	205.7	181.5	145.9	122.2	117.5	113.3	110.7
125°	496.9	460.7	398.2	332.6	260.2	192.6	144.8	128.0	119.1	113.9	114.9
127.5°	506.3	468.0	396.7	316.4	232.4	180.0	145.9	131.2	121.2	115.4	114.4
130°	395.6	368.3	314.8	256.0	197.3	161.1	134.8	120.1	111.2	106.0	104.9
132.5°	350.0	326.9	271.3	219.8	180.0	149.5	127.0	110.7	104.4	100.7	100.2
135°	279.6	260.2	223.0	195.2	167.4	142.2	119.6	104.4	98.6	98.1	97.1
137.5°	245.0	229.3	200.4	177.3	154.3	130.1	111.2	98.6	96.0	96.5	95.0
140°	199.9	193.1	176.8	156.9	132.2	107.0	93.9	89.7	93.9	96.0	96.0
142.5°	171.6	162.6	144.3	121.2	105.5	93.9	92.3	90.8	92.9	93.9	93.9
145°	157.9	147.4	132.2	123.8	116.5	106.5	98.1	90.8	88.7	89.2	89.2
147.5°	178.4	166.3	156.4	140.6	122.8	106.0	93.4	85.0	85.0	87.1	87.6
150°	148.0	137.5	130.6	121.7	108.1	94.4	85.5	81.3	82.9	87.1	87.6
152.5°	123.8	111.2	107.0	101.8	94.4	87.1	82.9	80.8	83.4	86.6	86.6
155°	120.7	109.7	104.4	99.2	92.3	86.0	82.4	81.3	83.9	86.0	86.6
157.5°	113.3	107.0	100.2	96.0	90.8	86.0	83.4	82.4	84.5	86.0	86.6
160°	109.1	105.5	97.6	93.9	89.2	86.0	85.5	85.5	86.6	87.1	87.1
162.5°	104.4	102.3	97.6	94.4	91.3	89.7	90.8	91.3	91.3	90.8	90.8
165°	102.8	101.8	97.6	95.0	93.4	93.9	96.0	96.5	95.0	93.9	93.9
167.5°	102.3	102.3	99.2	97.1	96.5	97.6	99.7	99.7	98.1	96.0	95.5
170°	102.3	102.8	101.8	101.8	100.7	101.3	101.8	101.8	100.7	99.7	99.2
172.5°	103.9	103.9	103.9	103.9	103.4	103.9	104.4	104.4	104.4	103.9	103.9
175°	106.5	106.5	106.5	106.0	105.5	105.5	106.0	106.5	107.0	107.0	107.0
177.5°	109.1	108.6	108.1	108.6	108.1	108.1	109.1	109.7	110.2	110.2	110.2
180°	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7

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

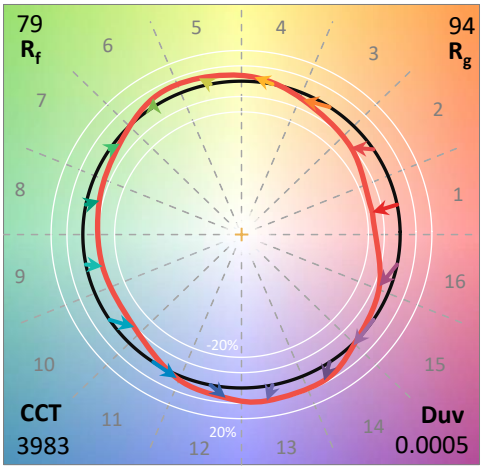
Test Information

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

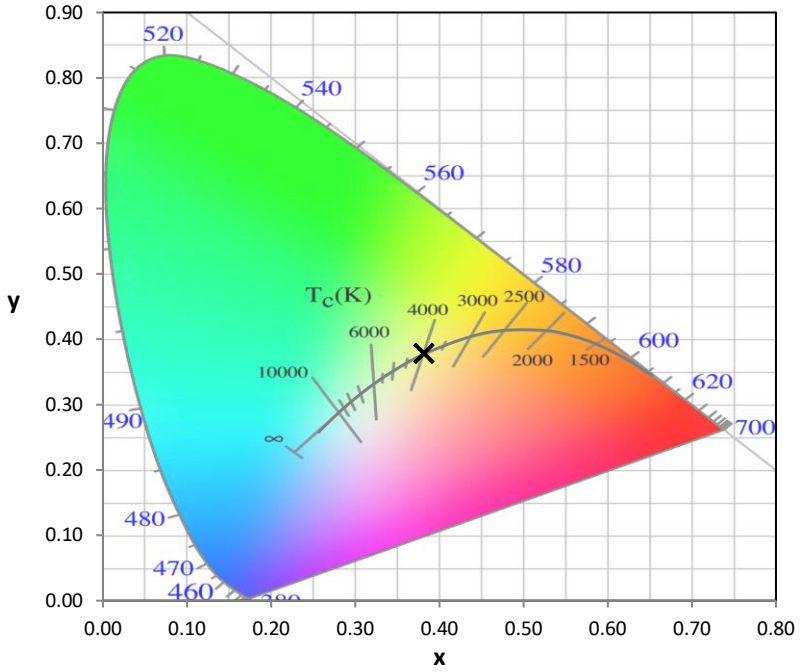
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

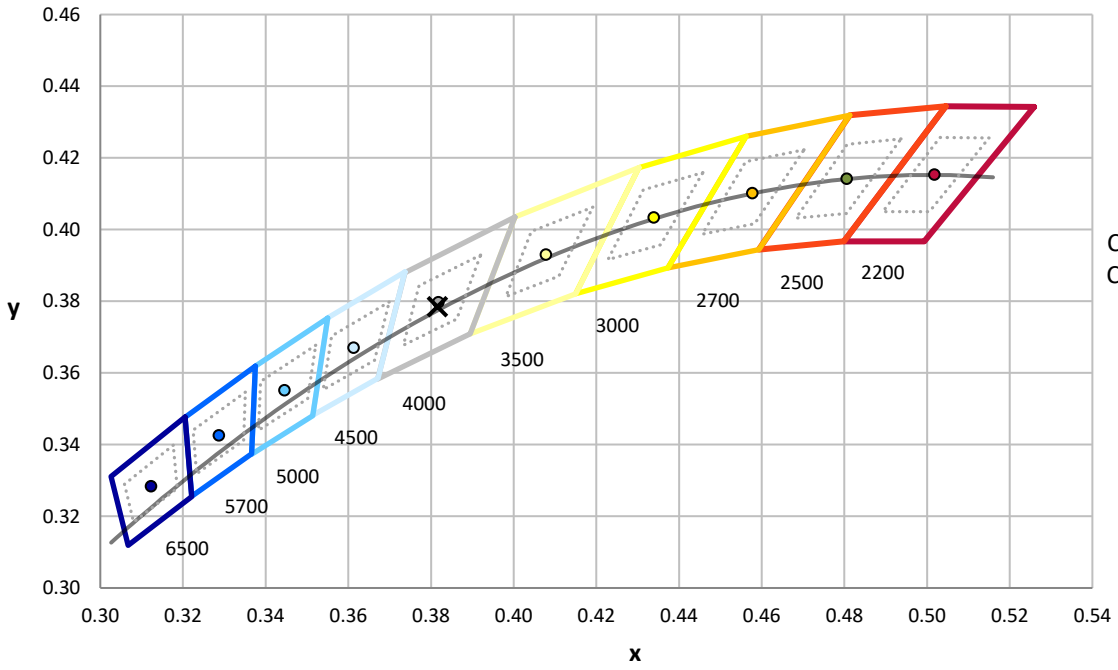
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

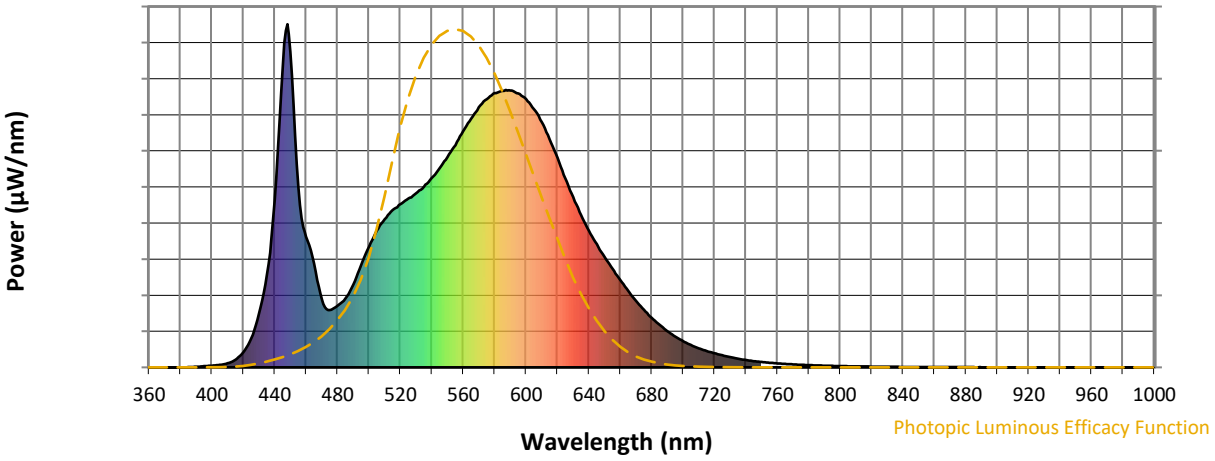


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

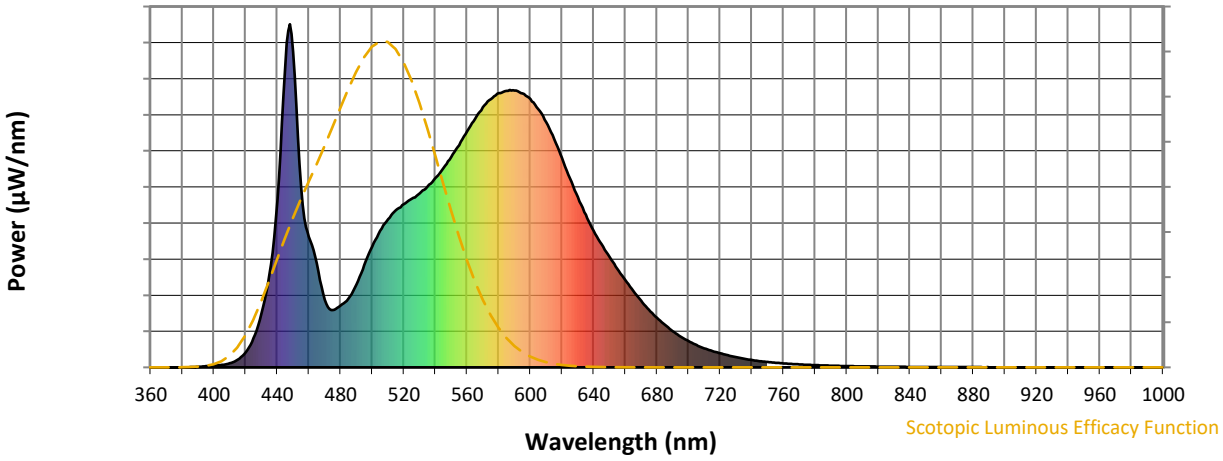


Photopic Lumens: NR

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

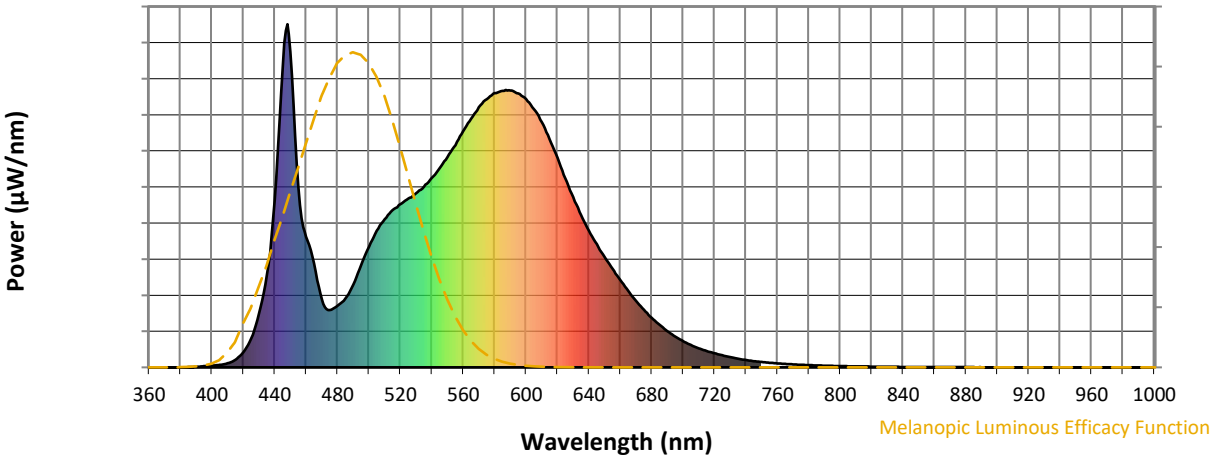


Scotopic Lumens: NR **S/P: 1.61**

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			

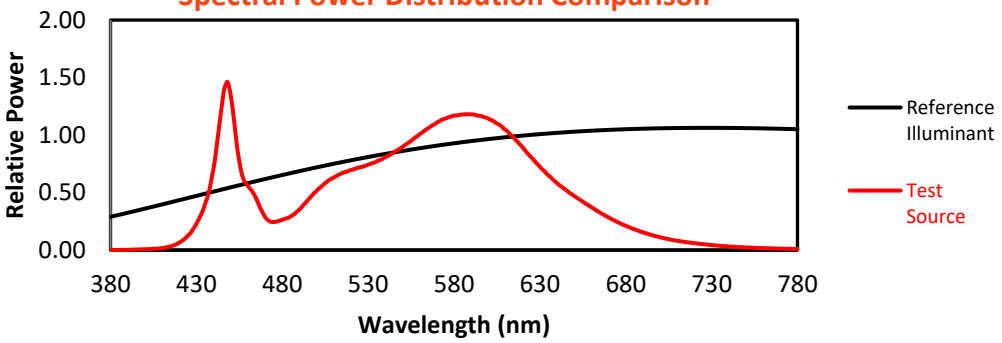
REPORT NUMBER: SP1-2501-332-11

TM-30-18

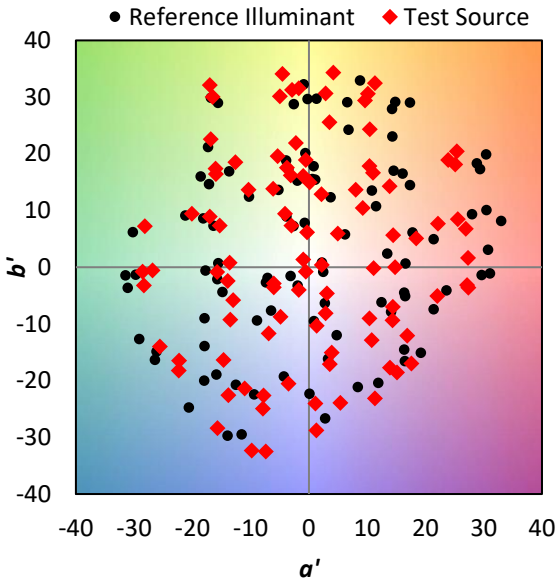
Summary

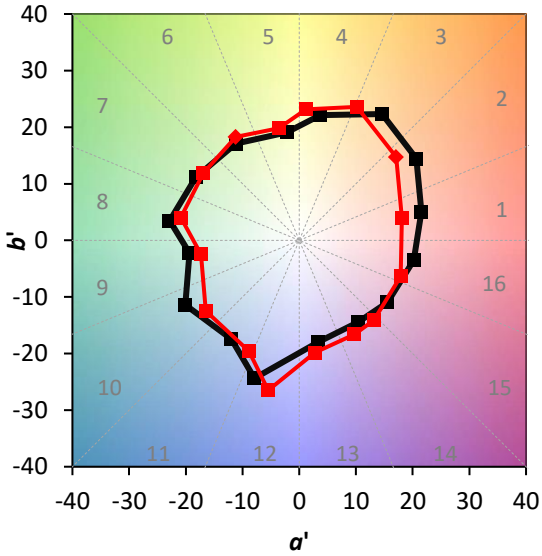
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

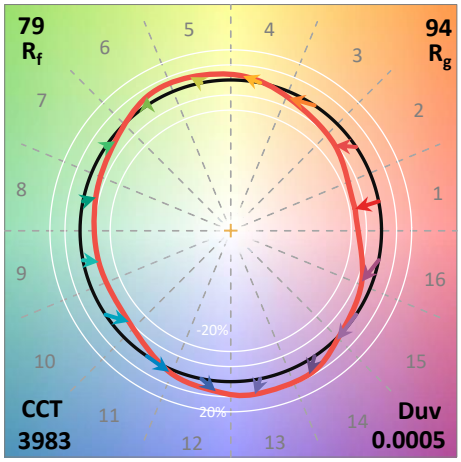
Spectral Power Distribution Comparison

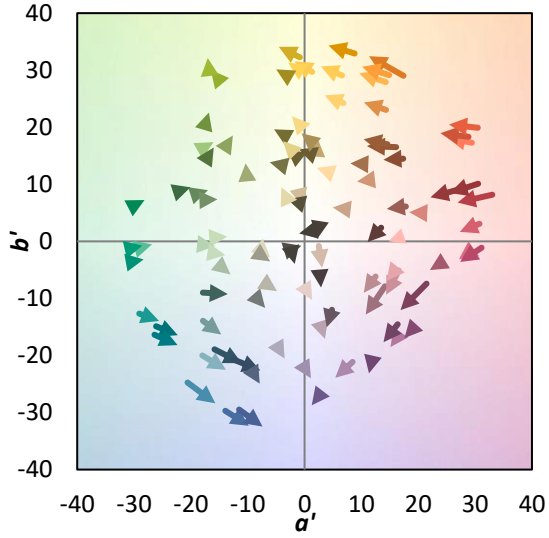


Color Vector Graphics







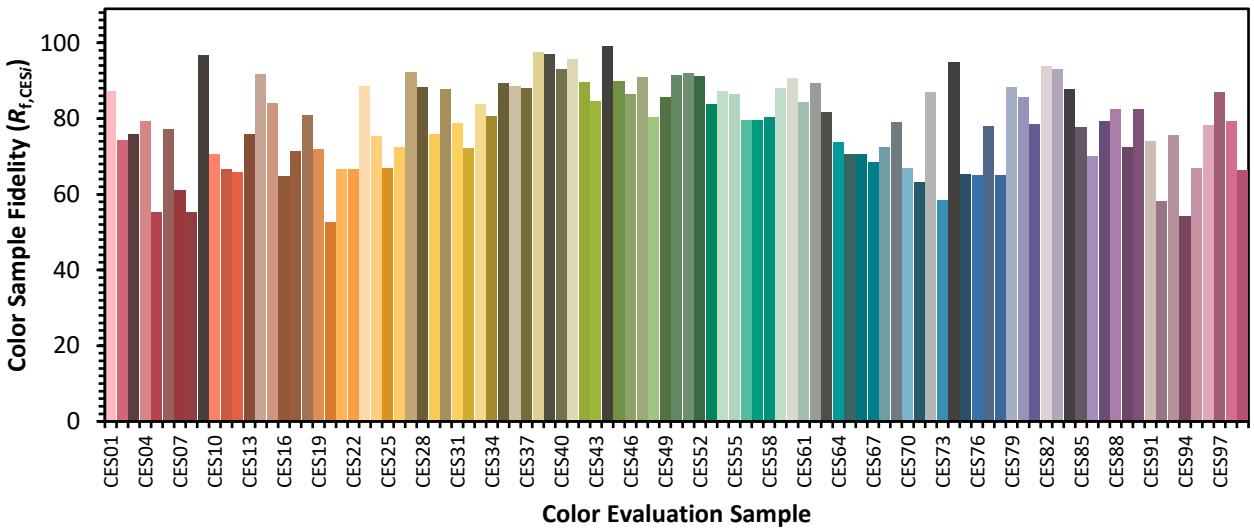


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

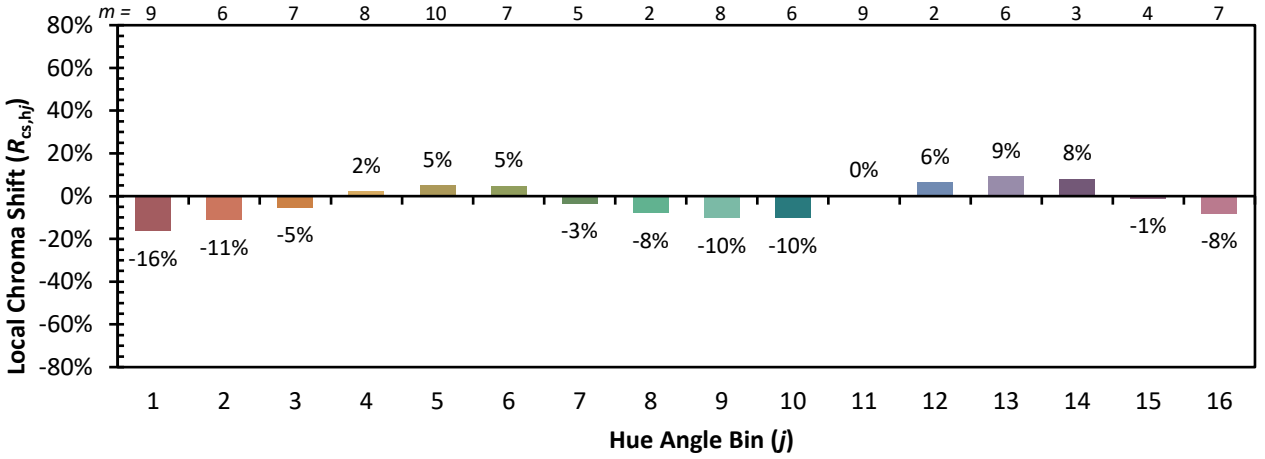
CES01 = 85	CES26 = 72	CES51 = 92	CES76 = 65
CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 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	

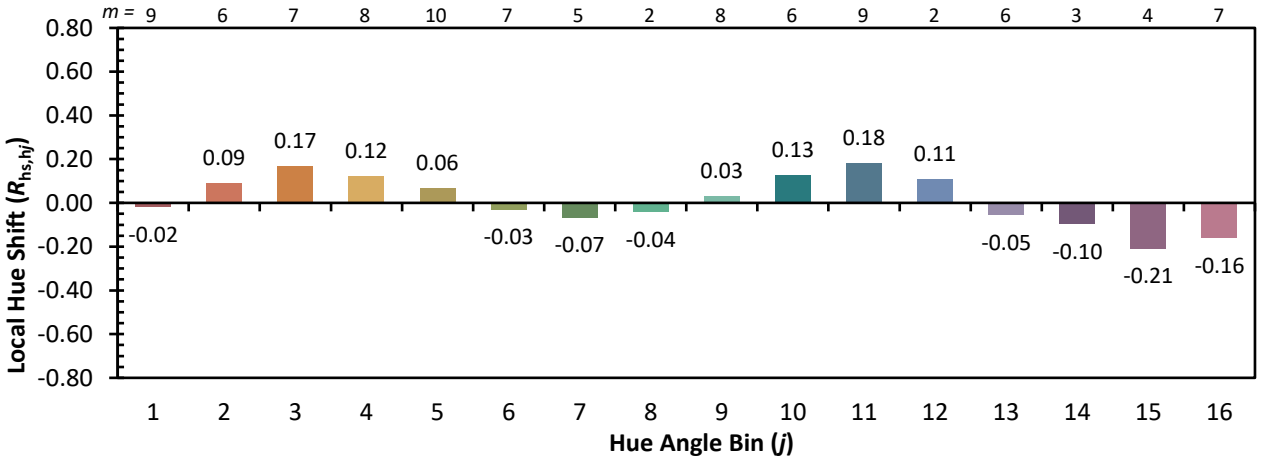


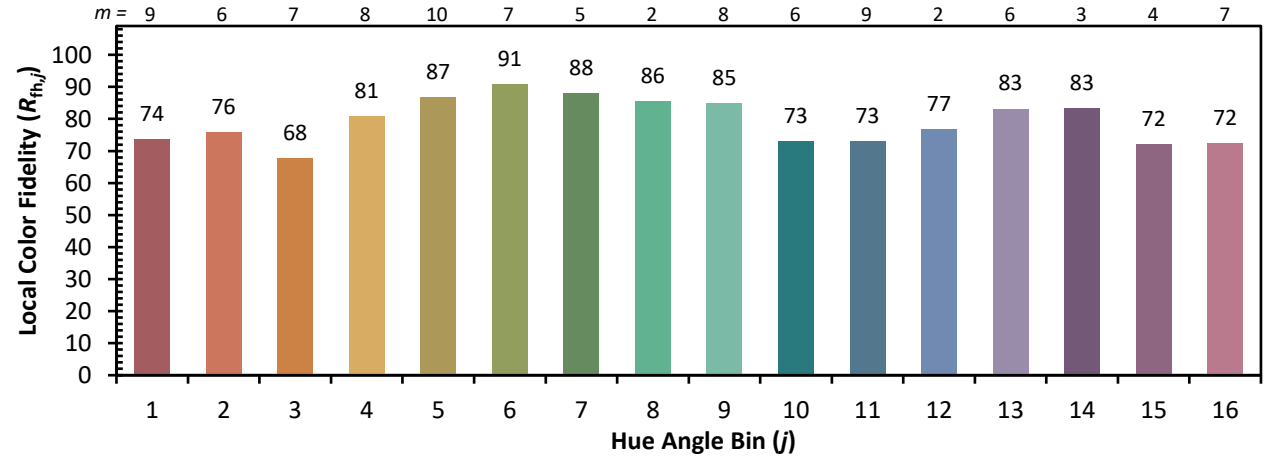
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Color Rendition by Hue-Angle Bin



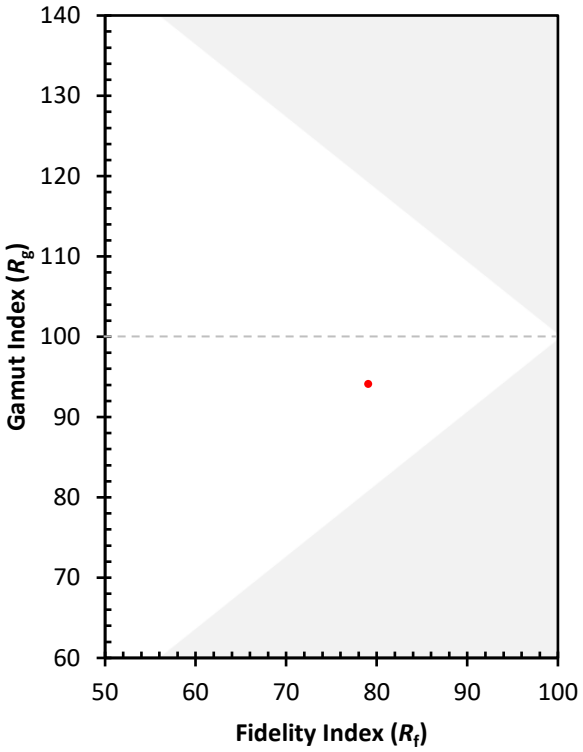


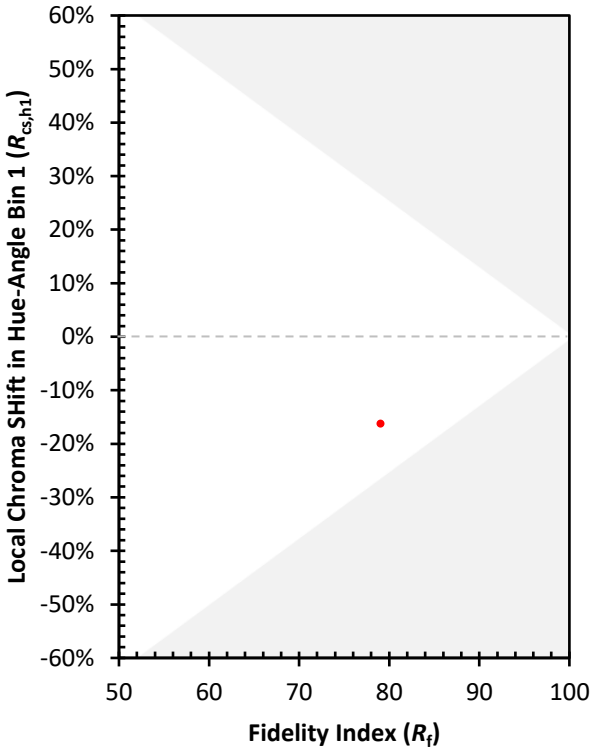


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Measure Comparisons





(END OF REPORT)