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: P981455

Luminaire Tested: **FFX-CLB-60-722-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981455
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7618.3 lumens
Efficiency:	N/A
Efficacy:	125.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U4 - G3

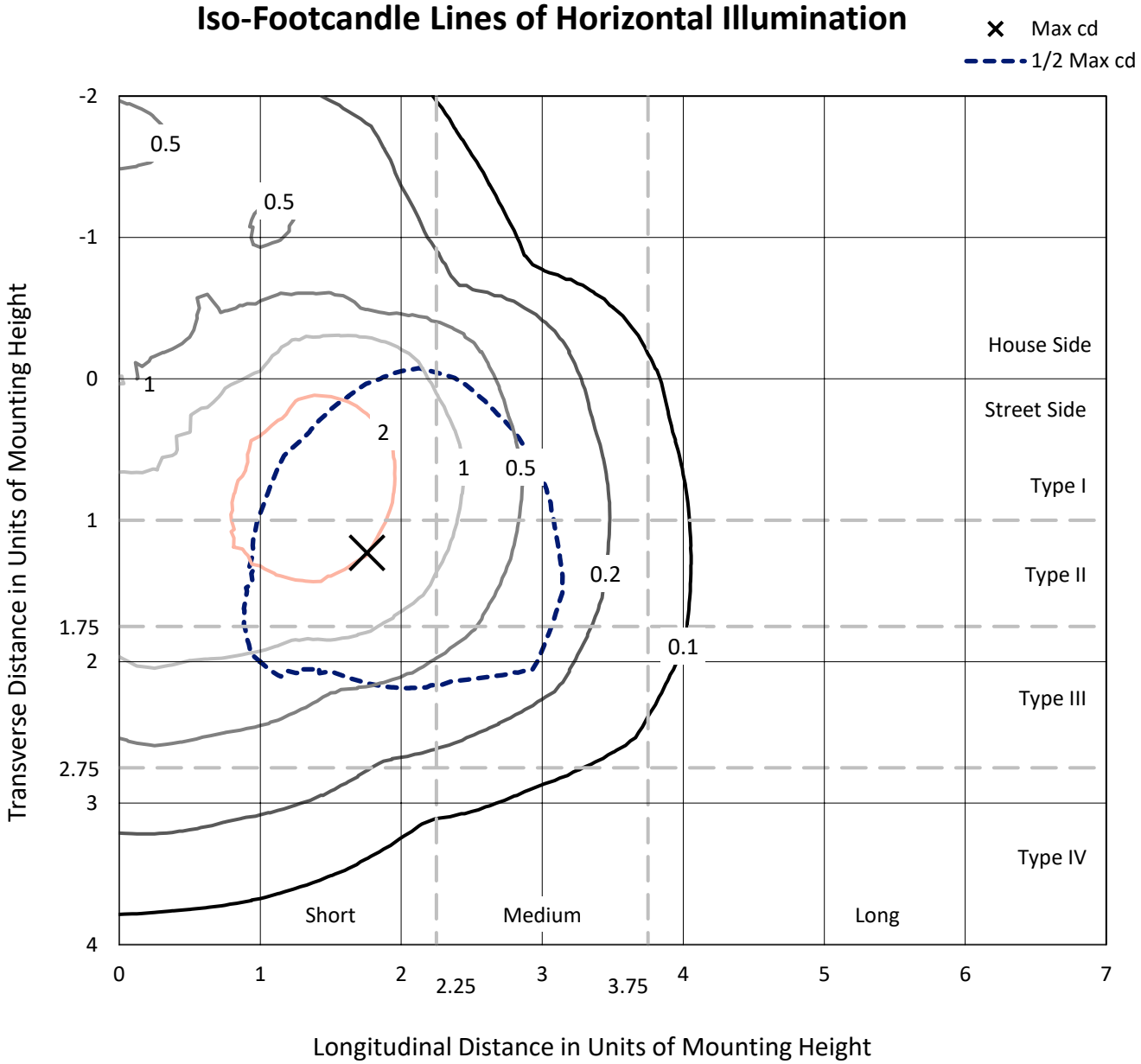
Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



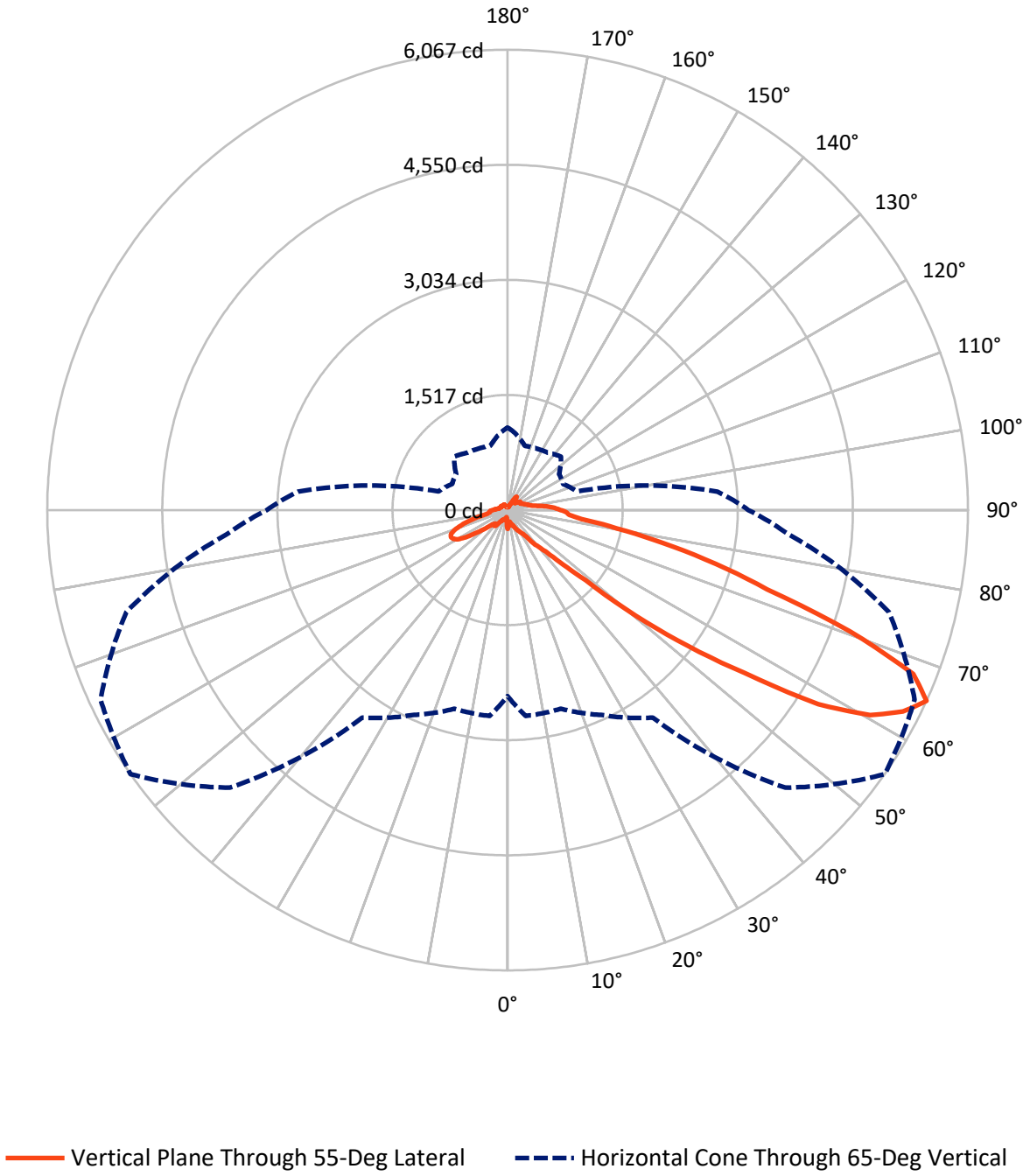
Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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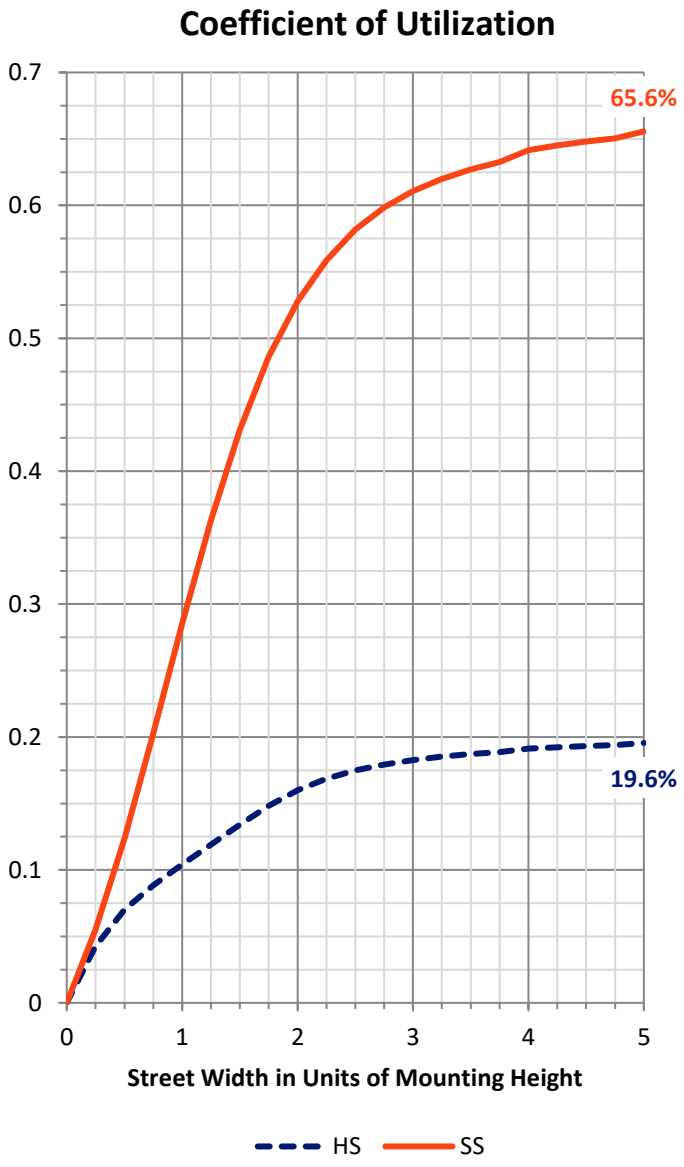
REPORT NUMBER: P981455
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1547.7	302.0	1849.7
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	5164.3	604.4	5768.6
	% Fixture	67.8	7.9	75.7
Total	Lumens	6712.0	906.4	7618.3
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.2
10°-20°	46.6	0.6
20°-30°	95.2	1.3
30°-40°	206.5	2.7
40°-50°	501.2	6.6
50°-60°	1564.7	20.5
60°-70°	2486.3	32.6
70°-80°	1325.0	17.4
80°-90°	472.1	6.2
90°-100°	287.2	3.8
100°-110°	170.1	2.2
110°-120°	132.8	1.7
120°-130°	110.7	1.5
130°-140°	80.9	1.1
140°-150°	74.4	1.0
150°-160°	33.6	0.4
160°-170°	12.8	0.2
170°-180°	3.8	0.0
0°-90°	6712.0	88.1
0°-180°	7618.3	100.0



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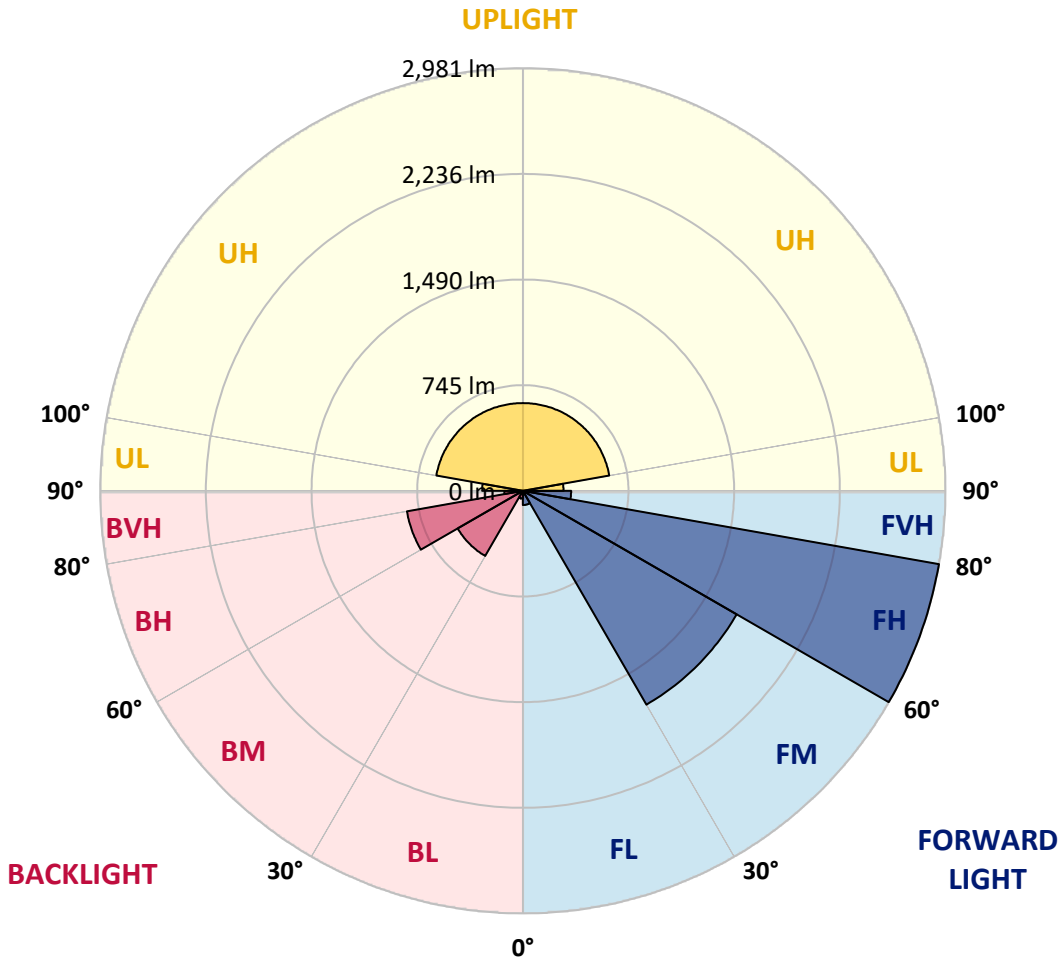
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	100.7	1.3			
FM	(30°-60°)	1742.0	22.9			
FH	(60°-80°)	2981.0	39.1			G2/5000
FVH	(80°-90°)	340.7	4.5			G3/500
BL	(0°-30°)	55.4	0.7	B0/110		
BM	(30°-60°)	530.5	7.0	B1/1000		
BH	(60°-80°)	830.3	10.9	B2/1000		G2/1000
BVH	(80°-90°)	131.5	1.7			G2/225
UL	(90°-100°)	287.2	3.8		U3/500	
UH	(100°-180°)	619.1	8.1		U4/1000	

BUG Rating: B2-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	247.2	247.2	247.2	247.2	247.2	247.2	*247.2*	247.2	247.2	247.2	247.2
2.5°	147.6	148.6	165.1	178.0	194.0	189.4	*189.4*	224.5	247.7	281.8	278.7
5°	157.9	151.2	154.3	165.6	187.3	197.6	*186.3*	147.6	122.3	132.6	145.0
7.5°	172.9	171.3	167.7	156.9	148.6	170.8	*201.8*	179.6	135.7	114.0	109.4
10°	177.0	177.5	176.5	177.5	181.6	171.8	*154.3*	140.4	136.2	134.2	132.6
12.5°	214.2	213.6	215.7	213.1	203.3	191.4	*195.1*	184.7	164.6	150.7	147.1
15°	249.8	248.7	248.2	238.4	222.4	203.3	*194.0*	198.7	185.8	169.8	162.5
17.5°	264.2	264.2	253.9	240.0	230.1	216.7	*209.5*	204.3	194.5	184.2	175.5
20°	258.5	258.0	247.7	242.0	243.1	236.9	*230.7*	222.9	213.1	196.6	185.8
22.5°	255.4	255.4	251.8	250.3	259.0	257.0	*255.4*	245.6	232.7	208.5	194.5
25°	275.6	274.0	269.4	269.4	277.6	284.3	*286.9*	279.2	258.0	221.4	208.5
27.5°	295.2	294.7	288.5	290.0	295.2	308.6	*312.7*	309.1	280.2	232.2	220.9
30°	318.9	315.3	310.1	319.4	318.4	337.0	*342.6*	346.8	310.1	254.4	241.0
32.5°	344.2	342.1	338.0	349.9	354.0	371.0	*375.7*	396.3	350.9	294.1	280.2
35°	387.0	385.5	396.3	419.5	419.0	451.0	*438.6*	469.6	426.8	365.9	351.9
37.5°	580.0	571.2	558.9	536.7	535.1	579.5	*565.6*	589.8	529.4	443.8	428.3
40°	603.8	602.2	596.5	571.2	556.8	632.7	*641.9*	713.7	614.1	516.0	486.1
42.5°	589.8	591.9	667.7	683.7	654.3	747.7	*763.2*	889.1	709.5	625.9	571.2
45°	711.1	714.2	739.0	750.3	748.2	983.0	*1021.2*	1175.5	876.7	780.2	679.1
47.5°	814.3	803.5	848.4	935.0	994.4	1259.6	*1382.4*	1619.3	1178.1	1035.7	848.4
50°	1118.8	1116.2	1224.5	1319.5	1378.3	1812.3	*2190.5*	2450.6	1726.6	1501.6	1183.8
52.5°	1325.2	1412.9	1516.6	1736.4	1789.6	2466.1	*2978.0*	3186.5	2386.1	1972.3	1616.2
55°	1534.7	1661.1	1777.2	2119.3	2295.8	3204.0	*3786.6*	3843.9	3133.8	2398.0	2039.3
57.5°	1924.3	2137.4	2212.2	2485.2	2743.2	4054.4	*4826.9*	4766.1	3904.8	2891.8	2512.0
60°	2276.7	2533.2	2511.5	2778.8	3110.6	4747.5	*5487.5*	5423.5	4610.2	3330.5	2875.3
62.5°	2394.9	2653.4	2624.0	2915.1	3339.2	5119.0	*5847.6*	5738.3	5072.1	3611.7	3076.6
65°	*2450.1*	*2724.6*	*2710.2*	*2981.6*	*3339.2*	*5172.7*	*6067.0*	*5917.3*	*5201.1*	*3720.1*	*3173.6*
67.5°	2401.6	2666.3	2675.6	2916.6	3142.6	4785.1	*5767.7*	5564.3	4878.0	3460.0	3000.2
70°	2099.2	2284.5	2261.2	2479.5	2501.7	3830.5	*4786.7*	4565.3	3963.1	2885.1	2482.6
72.5°	1734.4	1779.3	1760.2	1898.0	1923.8	2805.7	*3577.6*	3452.2	2959.4	2146.7	1896.9
75°	1383.0	1375.7	1415.0	1446.9	1420.1	2059.5	*2833.0*	2690.6	2189.5	1616.7	1459.8
77.5°	956.7	901.5	1004.7	1014.5	972.2	1369.5	*2089.9*	2035.7	1569.2	1191.5	1075.9
80°	537.7	543.9	617.7	661.6	646.1	871.6	*1454.2*	1418.6	1071.8	832.9	740.0
82.5°	414.9	433.5	468.0	501.1	479.4	666.7	*983.6*	986.1	783.8	608.4	555.8
85°	456.2	466.0	470.6	471.7	454.6	619.8	*815.3*	804.5	665.7	509.3	492.8
87.5°	444.8	455.1	456.7	457.2	442.2	590.3	*772.0*	755.0	634.7	489.2	463.9
90°	381.3	398.9	401.0	414.4	396.8	527.4	*679.6*	662.6	572.3	441.2	417.5
92.5°	327.7	337.0	346.8	362.8	344.2	459.3	*608.4*	587.2	512.4	398.9	366.4
95°	299.8	305.0	313.2	319.4	297.7	390.1	*508.8*	486.6	415.9	321.0	292.1
97.5°	241.0	245.6	249.2	257.0	242.0	309.1	*394.8*	374.1	326.1	255.4	233.8
100°	205.9	209.0	213.1	218.3	205.9	259.0	*324.1*	314.8	271.4	215.7	201.8
102.5°	188.4	190.9	198.2	198.2	190.4	236.9	*289.5*	282.3	244.1	195.6	186.3
105°	181.6	182.2	188.4	185.8	180.6	220.9	*269.9*	260.6	228.6	185.8	174.9
107.5°	172.9	173.4	181.1	177.0	172.9	204.9	*244.6*	240.5	211.6	173.4	164.1
110°	164.1	165.6	175.5	171.8	169.3	192.5	*229.1*	221.4	202.3	167.7	160.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	157.4	158.4	167.7	165.1	163.1	184.2	*212.6*	212.6	197.6	167.7	157.4
115°	151.7	153.8	161.5	156.4	152.7	173.4	*196.1*	197.1	184.7	160.0	149.6
117.5°	141.9	146.6	150.7	152.7	148.6	166.2	*186.3*	185.3	178.5	154.3	147.1
120°	161.5	157.9	161.0	164.6	157.9	171.8	*188.9*	188.9	182.2	151.7	145.5
122.5°	168.7	163.6	166.7	163.1	162.5	180.6	*201.8*	203.3	189.4	156.4	140.9
125°	149.6	147.6	144.0	142.9	147.1	164.1	*183.2*	189.9	174.9	149.6	131.6
127.5°	128.0	125.4	120.8	123.3	131.1	148.1	*157.9*	161.5	155.3	138.8	125.4
130°	118.2	117.7	121.3	125.9	132.1	146.6	*149.6*	154.8	154.8	135.2	127.5
132.5°	107.9	108.4	119.7	135.7	140.4	143.5	*136.7*	146.6	151.2	137.8	129.0
135°	106.3	106.8	113.0	125.9	126.4	128.5	*129.0*	141.4	144.5	131.6	121.8
137.5°	116.1	116.1	111.5	114.0	119.7	135.2	*140.4*	150.2	147.6	124.4	109.9
140°	128.0	125.4	110.9	111.5	121.3	140.4	*147.1*	153.3	150.2	121.8	104.8
142.5°	105.8	106.8	109.4	119.2	130.6	173.9	*168.2*	183.7	177.5	129.0	102.2
145°	165.1	165.6	162.5	166.7	173.9	231.2	*213.6*	238.4	245.6	168.7	121.3
147.5°	180.6	182.7	177.0	173.4	194.0	211.6	*192.0*	212.6	226.5	177.0	130.0
150°	140.9	140.4	136.7	141.9	155.8	154.8	*144.5*	151.7	157.4	135.2	111.5
152.5°	100.1	98.6	96.5	97.0	113.5	109.4	*106.3*	112.5	112.5	103.7	89.3
155°	83.1	83.1	82.0	84.6	93.9	86.7	*84.1*	83.1	82.0	79.5	73.8
157.5°	70.2	71.7	70.2	73.3	79.5	72.8	*71.2*	69.7	70.2	70.2	68.6
160°	58.3	58.3	57.3	62.4	64.5	59.3	*56.8*	55.7	55.7	58.8	58.8
162.5°	49.0	49.0	49.5	51.6	53.2	49.5	*48.0*	48.0	49.5	54.2	54.2
165°	42.3	42.3	42.8	44.4	45.4	43.3	*42.3*	42.8	47.0	51.1	51.1
167.5°	38.7	38.7	38.7	39.2	39.7	38.7	*38.7*	40.8	44.4	47.0	47.0
170°	36.6	36.6	36.1	36.6	36.6	36.6	*38.7*	40.8	42.3	42.3	42.3
172.5°	37.2	37.2	36.6	37.2	37.2	36.6	*39.2*	41.8	40.8	40.3	40.3
175°	38.2	38.2	38.2	38.7	38.7	37.7	*37.2*	38.2	39.2	39.2	38.7
177.5°	38.2	38.2	37.7	38.2	37.7	36.6	*36.1*	35.6	35.6	35.1	35.1
180°	35.6	35.6	35.6	35.6	35.6	35.6	*35.6*	35.6	35.6	35.6	35.6

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2
2.5°	252.3	217.8	192.0	212.1	256.5	278.7	256.5	195.1	137.3	120.2
5°	151.2	147.1	132.6	129.5	135.2	130.0	144.5	136.7	108.4	109.4
7.5°	113.0	136.7	132.1	94.4	88.2	82.6	87.2	99.6	102.7	96.0
10°	131.1	118.2	103.2	96.0	104.8	113.0	107.3	93.4	80.5	76.9
12.5°	144.5	143.5	145.0	130.0	106.8	98.6	95.5	102.7	124.9	130.0
15°	155.3	143.5	132.6	129.5	114.0	105.8	101.7	99.6	95.5	92.4
17.5°	166.2	146.6	134.7	122.8	115.1	107.3	98.6	93.9	93.4	93.9
20°	173.4	155.3	141.4	128.0	118.2	107.9	99.1	94.9	94.9	94.9
22.5°	182.2	164.6	149.6	132.6	121.3	109.9	102.7	98.6	98.0	98.0
25°	196.6	177.0	159.5	140.9	128.5	118.2	108.4	103.2	101.7	101.1
27.5°	213.1	191.4	170.3	151.2	138.3	126.9	114.0	106.3	104.2	103.7
30°	234.3	209.5	182.7	162.5	146.6	135.7	120.2	110.9	106.8	106.3
32.5°	268.9	236.3	201.3	179.1	160.0	145.5	128.5	117.1	110.4	108.9
35°	335.4	295.7	243.1	211.1	180.6	157.9	135.7	120.8	114.0	113.0
37.5°	409.7	349.4	298.3	261.1	224.0	185.8	147.1	126.4	118.2	116.6
40°	441.7	384.4	330.3	271.9	263.7	233.8	180.6	140.4	123.8	121.3
42.5°	511.9	430.4	357.1	240.5	259.6	258.0	222.9	171.8	139.3	133.1
45°	602.7	489.7	397.3	257.0	261.6	252.3	228.6	198.7	169.3	162.5
47.5°	750.8	547.5	410.2	289.0	294.1	271.9	239.4	209.5	188.4	185.8
50°	1072.3	717.3	457.7	349.9	366.4	315.3	275.0	249.2	224.0	219.3
52.5°	1457.8	849.9	506.7	436.6	495.9	422.6	361.7	314.3	312.7	306.5
55°	1863.9	901.0	571.8	532.0	624.4	560.9	501.6	458.2	480.4	482.5
57.5°	2320.1	955.7	665.7	656.9	780.2	679.1	629.0	640.9	798.3	859.7
60°	2624.0	1000.6	746.7	760.1	922.7	824.1	786.4	812.7	1080.1	1192.0
62.5°	2759.2	977.9	786.4	809.7	984.1	912.3	906.1	920.1	1146.6	1251.4
65°	*2777.8*	*944.3*	*808.1*	*828.2*	*994.9*	*921.6*	*895.3*	*875.7*	*1026.4*	*1087.8*
67.5°	2549.7	873.1	791.1	812.2	945.9	858.2	792.6	748.2	835.5	841.6
70°	2075.0	779.7	733.3	741.0	808.1	718.3	656.4	618.2	638.3	630.1
72.5°	1609.0	687.4	653.3	635.2	655.4	578.5	505.2	485.6	504.7	495.9
75°	1222.5	614.1	576.4	515.5	548.5	445.3	363.8	346.3	354.5	342.6
77.5°	898.9	494.9	451.0	381.3	426.8	323.0	245.6	227.6	230.7	219.3
80°	655.9	365.9	329.7	273.5	307.6	229.6	177.5	174.4	173.9	166.7
82.5°	506.7	290.5	263.7	235.3	241.0	202.8	168.2	163.1	163.1	152.2
85°	470.1	281.2	253.9	233.8	235.3	196.6	160.0	156.9	158.4	147.1
87.5°	439.1	275.0	252.9	228.6	216.7	178.0	144.0	147.6	148.6	138.8
90°	376.7	244.6	224.5	201.3	187.3	151.2	129.0	135.7	136.7	128.0
92.5°	330.3	210.0	193.0	174.9	168.7	141.9	123.8	129.0	129.0	121.3
95°	263.2	171.8	164.1	155.3	153.8	132.6	115.6	118.2	117.1	110.4
97.5°	214.2	149.1	142.4	134.2	129.0	113.5	101.7	104.2	104.8	100.1
100°	188.4	137.8	128.5	119.2	114.0	102.2	92.9	97.5	100.6	96.5
102.5°	176.0	131.6	121.3	111.5	107.3	96.5	87.7	91.9	96.0	92.4
105°	167.2	126.9	116.1	107.3	102.2	91.3	82.6	83.6	88.8	86.7
107.5°	155.8	126.9	113.0	104.2	98.0	88.2	77.9	76.9	80.0	79.5
110°	151.7	126.9	110.9	102.2	95.5	86.7	77.4	73.3	74.8	74.8

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

Scaled Data Report

REPORT NUMBER: P981455
CATALOG NUMBER: FFX-CLB-60-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	148.1	125.9	108.9	98.6	92.9	85.7	76.4	70.2	71.7	72.8
115°	139.8	116.1	102.7	91.9	86.2	78.4	72.2	67.6	68.1	69.1
117.5°	135.2	107.3	99.6	89.8	85.7	81.0	75.3	66.6	66.6	67.6
120°	135.2	105.8	102.2	98.6	96.5	88.8	79.5	66.6	65.0	65.0
122.5°	133.1	117.7	111.5	103.2	97.5	87.2	75.9	65.0	64.0	64.0
125°	122.3	112.5	102.7	92.9	86.2	77.9	71.2	65.5	63.5	63.5
127.5°	116.6	101.1	91.9	84.1	79.5	75.3	71.2	65.5	63.0	62.4
130°	118.2	102.2	90.3	84.1	80.5	76.4	71.7	64.5	60.4	59.9
132.5°	119.2	98.6	87.2	82.0	79.5	76.4	70.2	60.9	56.2	56.2
135°	107.9	88.8	83.6	80.0	78.4	75.9	66.6	57.8	54.2	53.7
137.5°	98.0	86.2	82.6	79.0	76.4	72.8	65.5	56.8	52.1	51.6
140°	93.9	84.1	79.0	72.2	69.1	61.9	56.8	51.6	50.1	49.5
142.5°	89.3	79.0	72.8	67.1	65.5	63.0	59.9	51.6	46.4	46.4
145°	106.8	94.9	87.7	82.0	74.8	69.7	59.9	49.5	42.8	41.8
147.5°	112.0	101.1	93.9	86.2	72.8	61.4	50.6	43.3	40.8	39.7
150°	98.0	88.8	81.0	72.8	60.9	53.2	45.9	41.3	40.3	40.3
152.5°	77.9	72.8	64.5	58.8	51.1	46.4	42.3	39.7	38.7	38.7
155°	64.5	60.4	55.7	51.1	47.0	43.9	41.3	39.2	38.2	38.2
157.5°	62.4	56.2	52.1	48.0	45.4	42.3	40.3	38.2	37.7	37.2
160°	56.8	49.5	45.9	43.3	42.8	41.8	40.3	38.7	38.2	37.7
162.5°	52.6	45.4	42.8	41.3	42.8	43.9	42.8	40.8	39.2	38.7
165°	49.5	42.8	40.8	40.8	43.9	45.4	42.8	40.8	40.8	40.3
167.5°	45.9	43.9	41.3	40.8	43.3	46.4	47.0	43.3	41.8	41.3
170°	42.8	43.3	43.3	41.8	42.3	44.9	45.9	44.9	42.8	42.3
172.5°	40.8	41.8	43.9	42.8	42.8	43.9	44.9	43.9	42.3	41.8
175°	38.7	39.2	38.2	38.7	40.3	41.8	41.3	40.8	40.3	40.3
177.5°	35.1	35.1	35.6	35.6	36.1	37.7	38.2	38.2	39.2	39.2
180°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

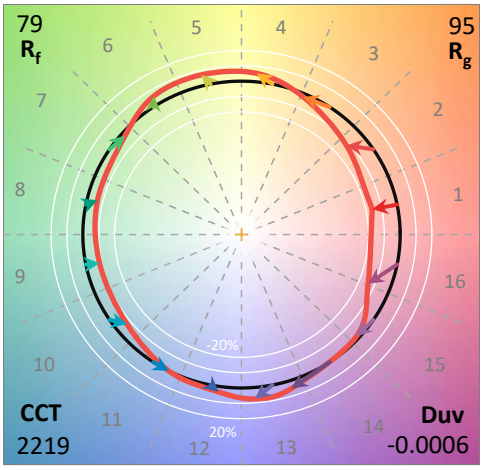
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

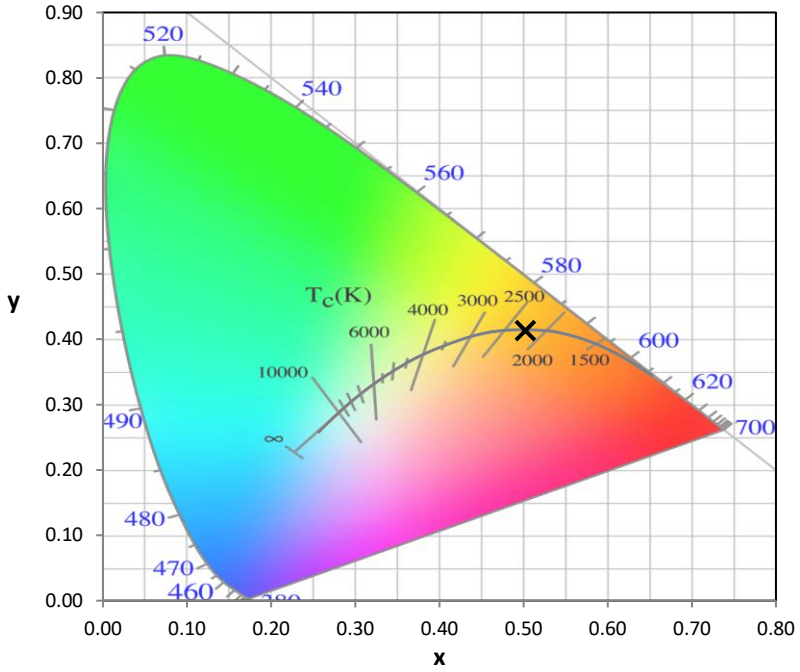
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

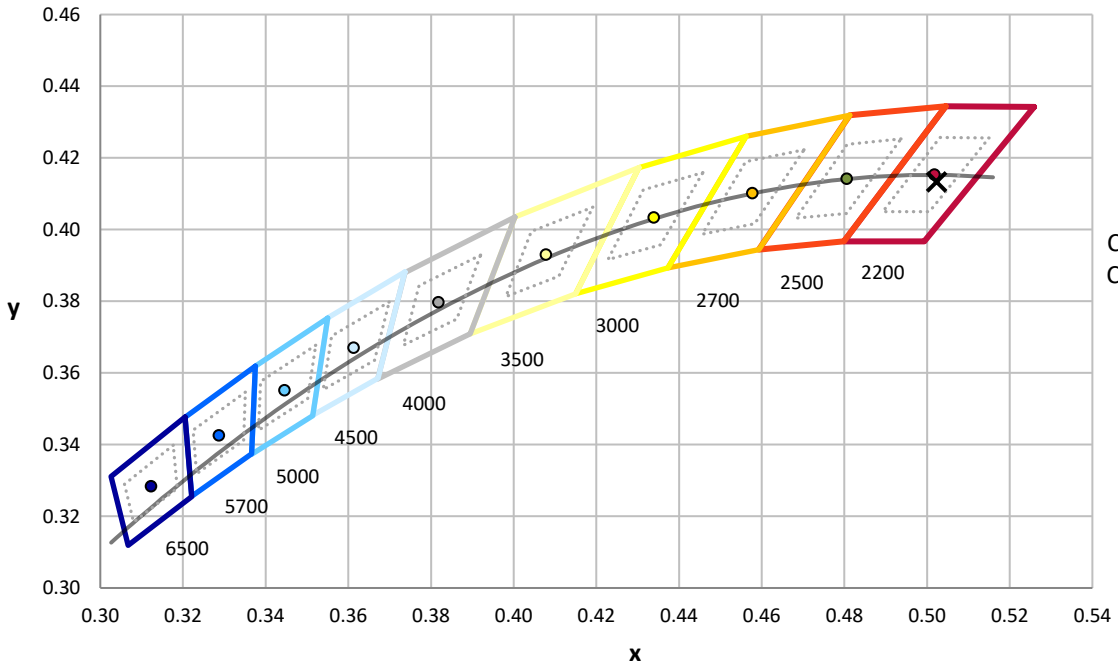
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

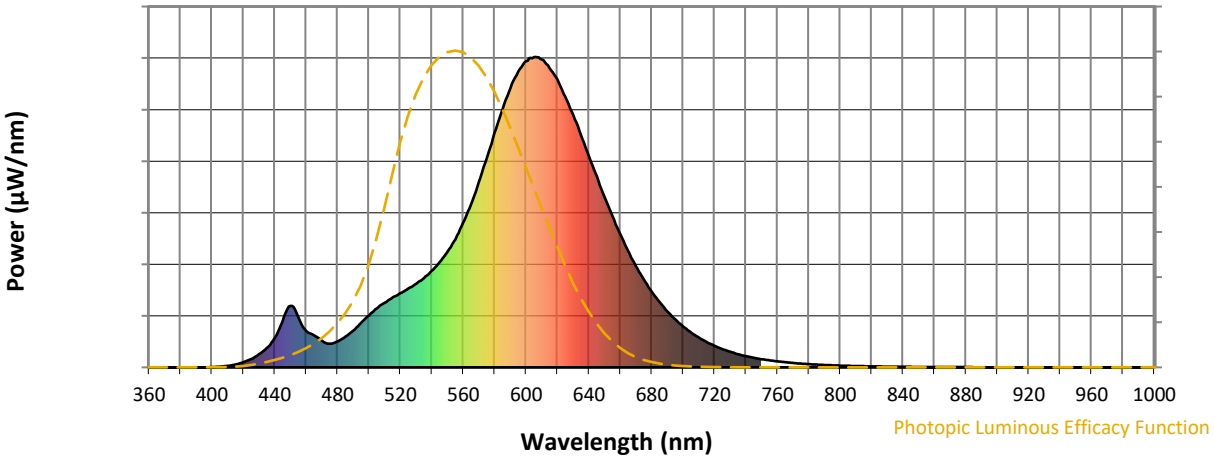


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

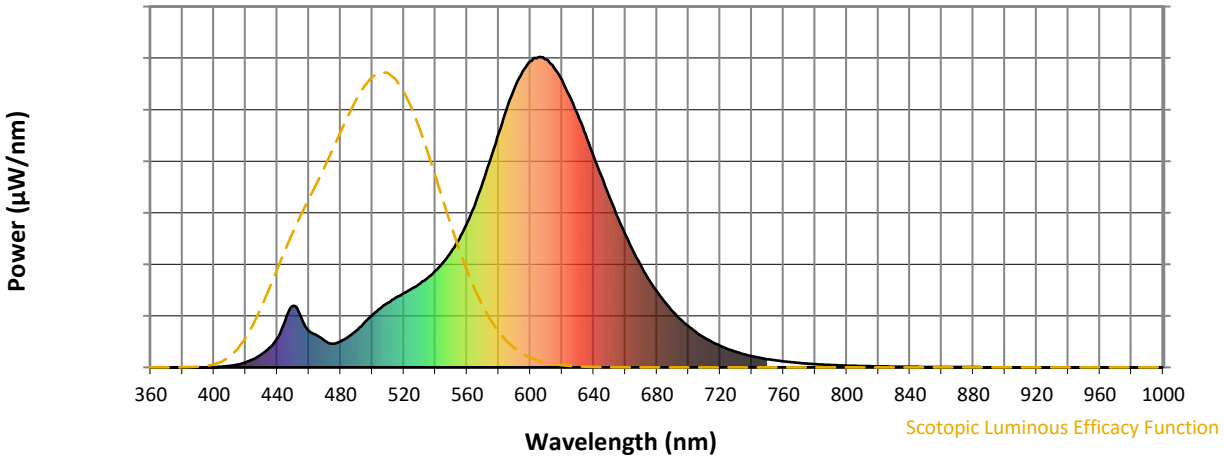


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

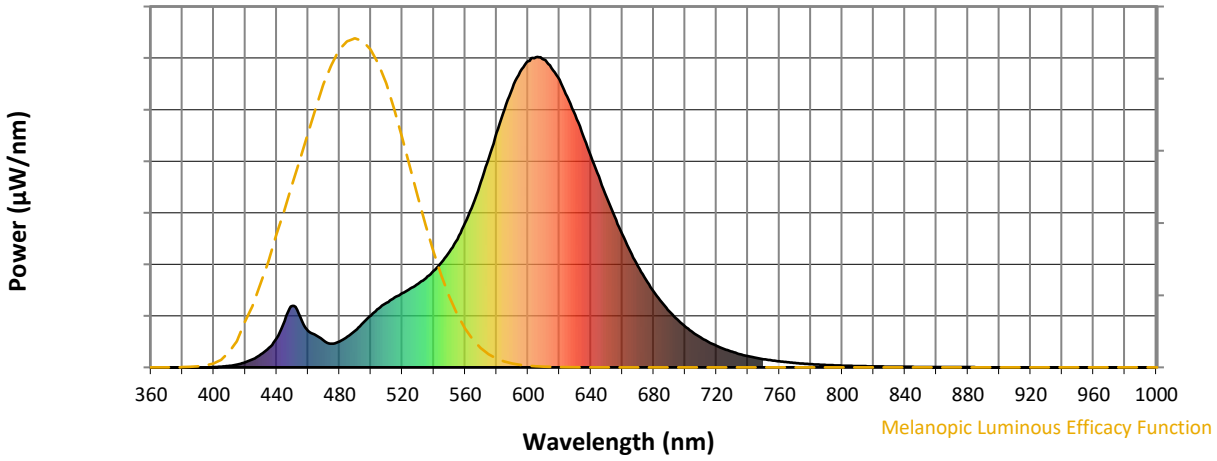


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

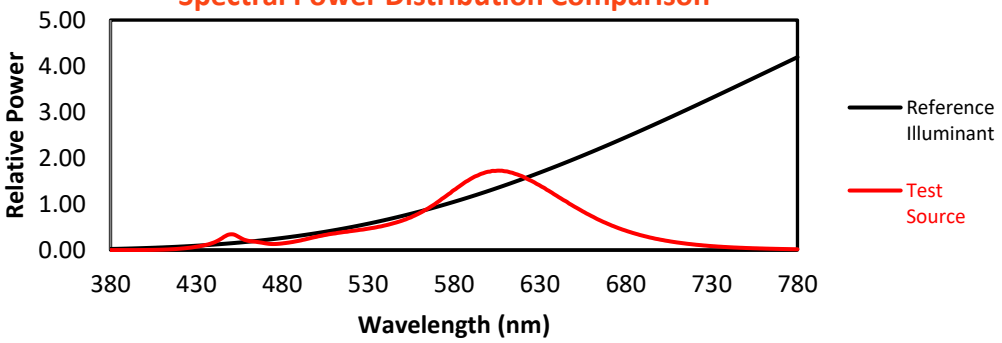
REPORT NUMBER: SP1-2501-332-2

TM-30-18

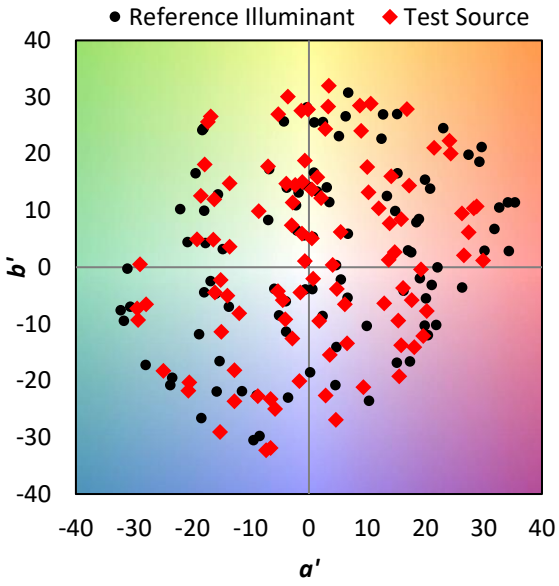
Summary

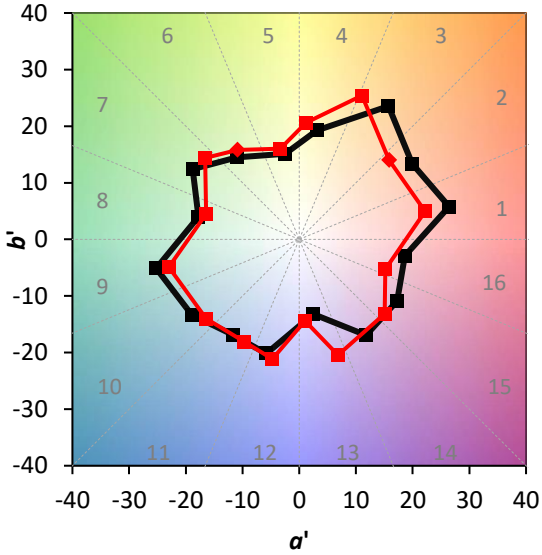
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

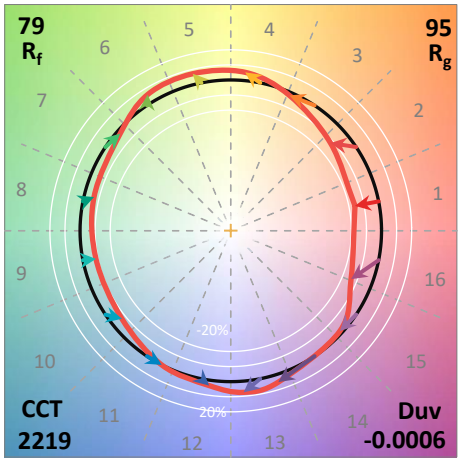
Spectral Power Distribution Comparison

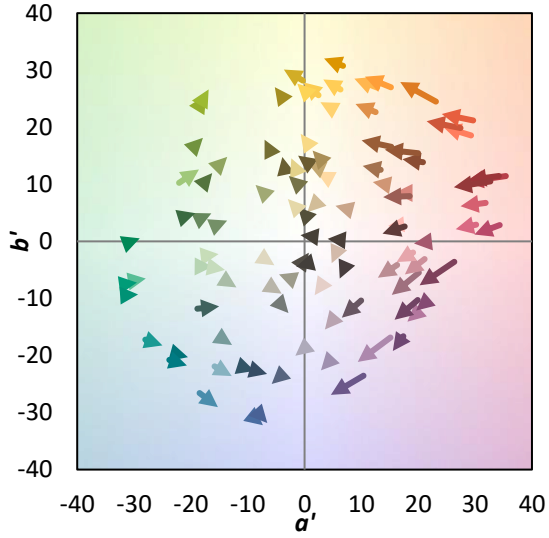


Color Vector Graphics







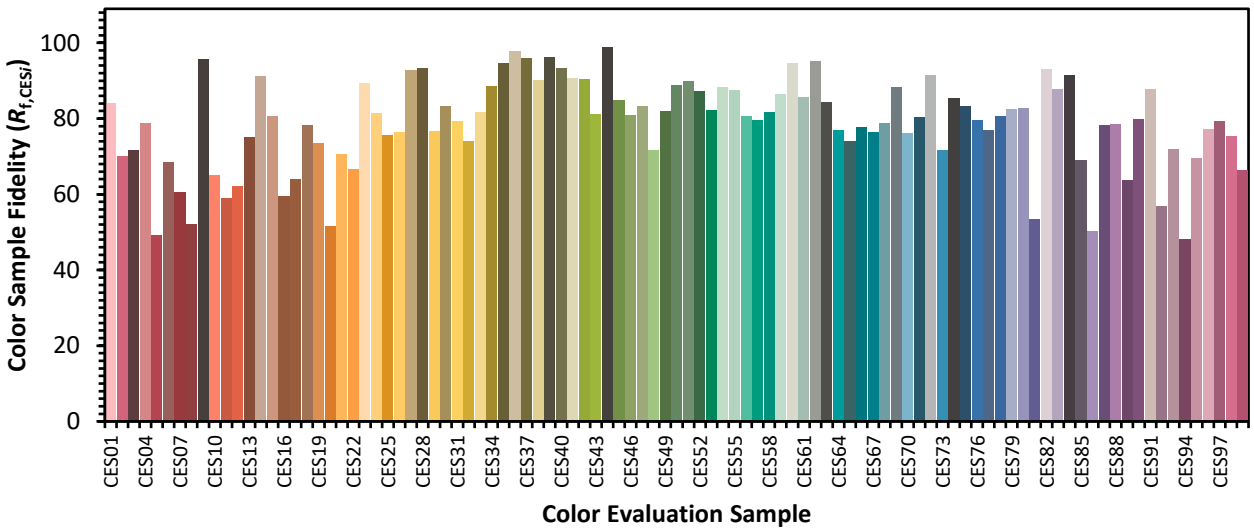


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

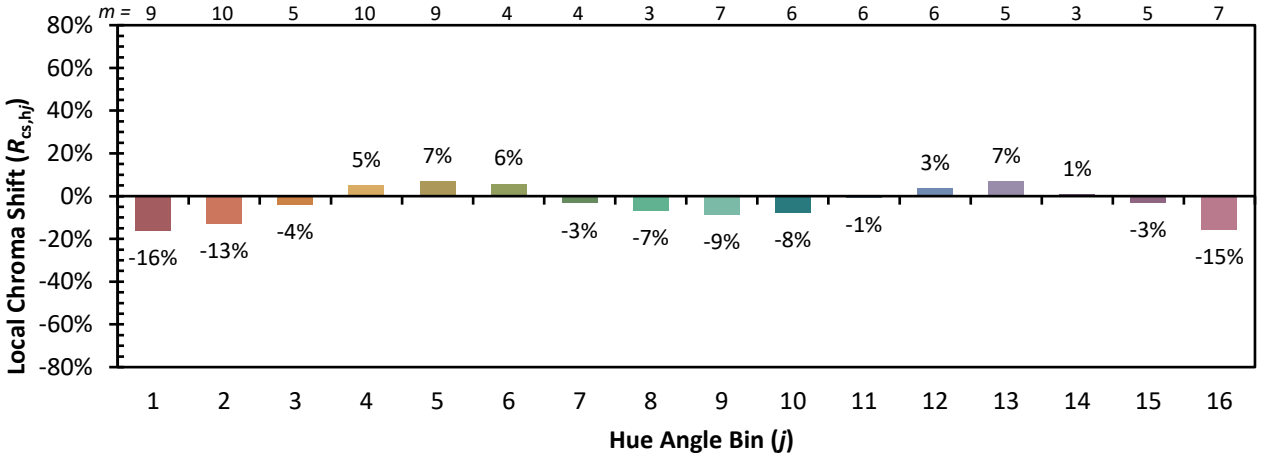
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

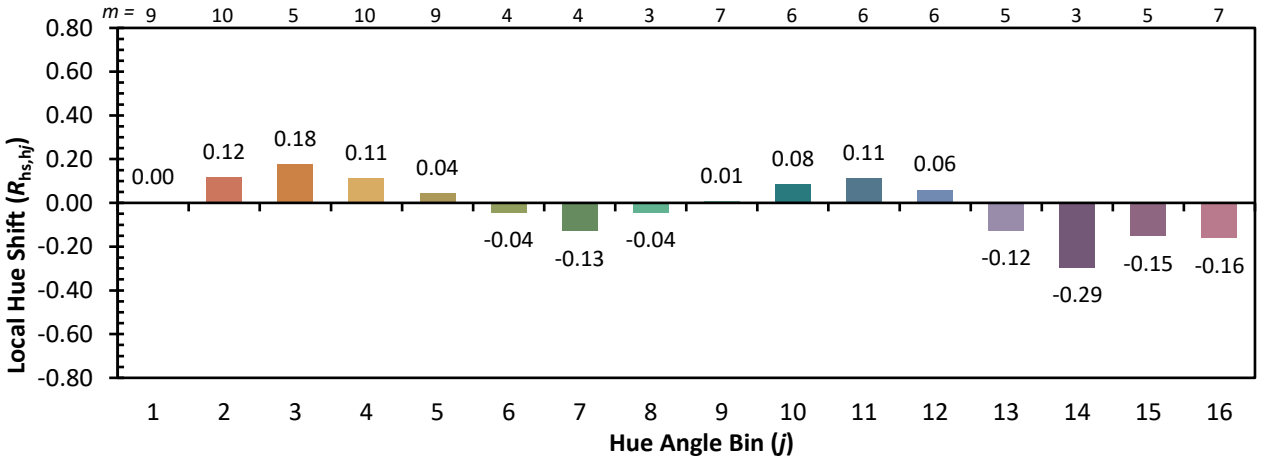


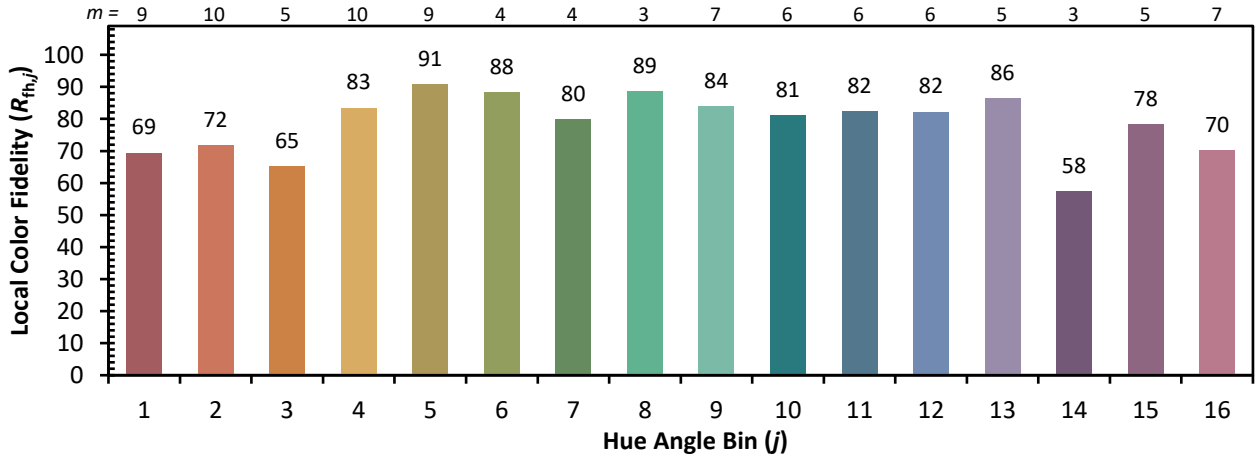
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Color Rendition by Hue-Angle Bin



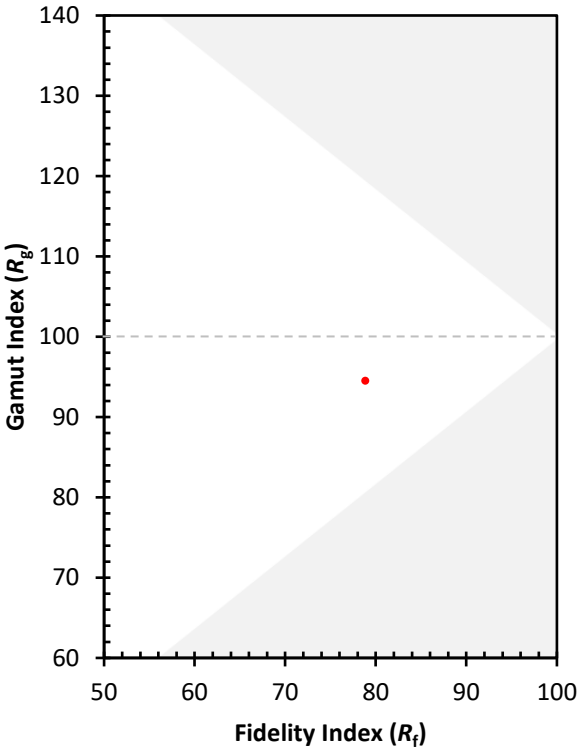


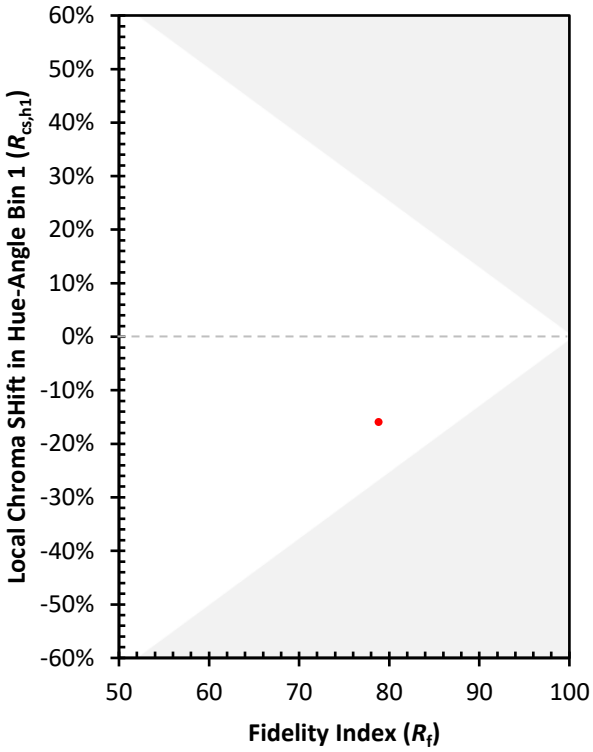


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Measure Comparisons





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