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: P1045781

Luminaire Tested: **FFX-CLB-60-722-U-FR-T5-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:	P1045781
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5314 lumens
Efficiency:	N/A
Efficacy:	87.7 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):	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

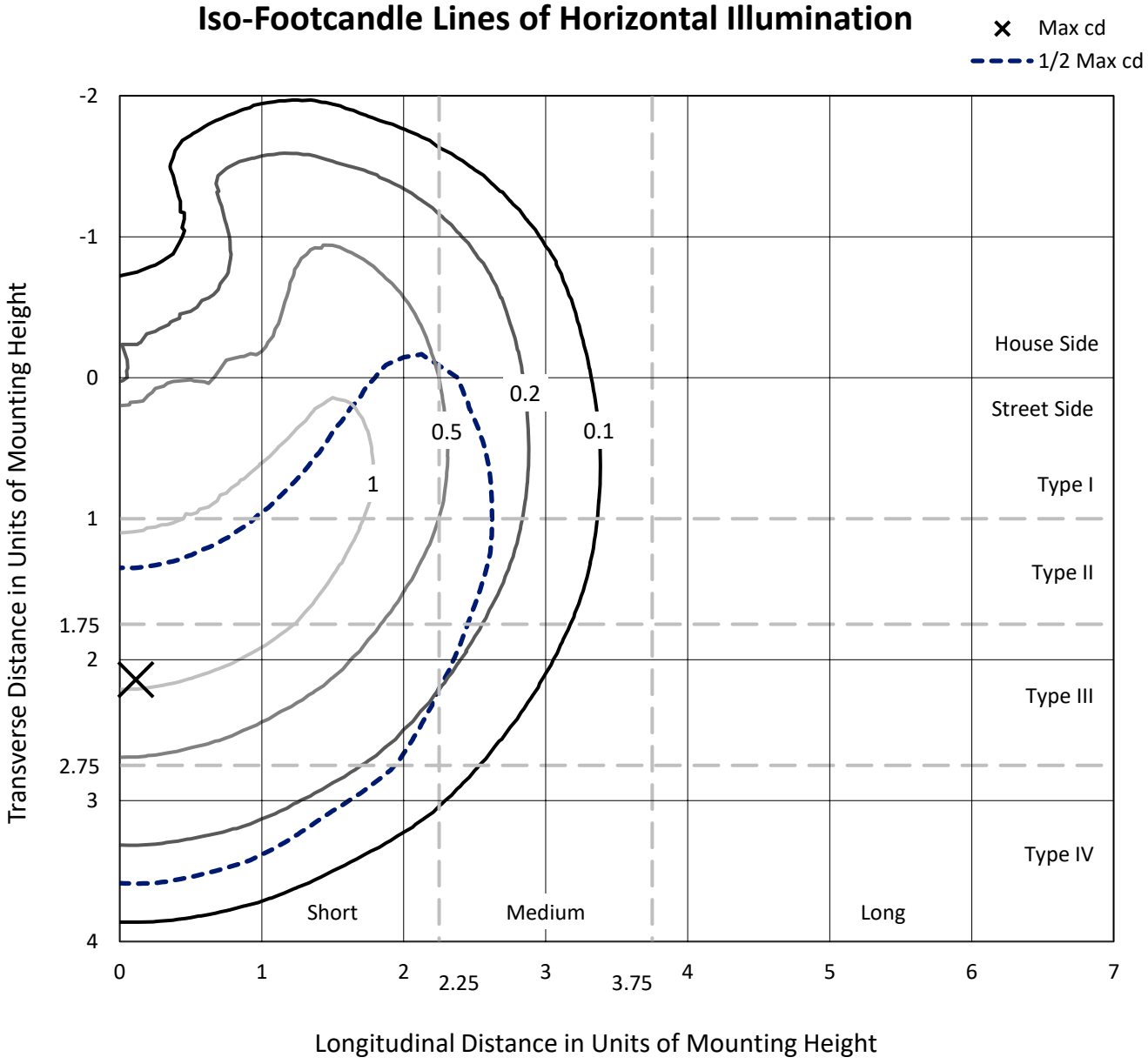


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Iso-Footcandle Lines of Horizontal Illumination



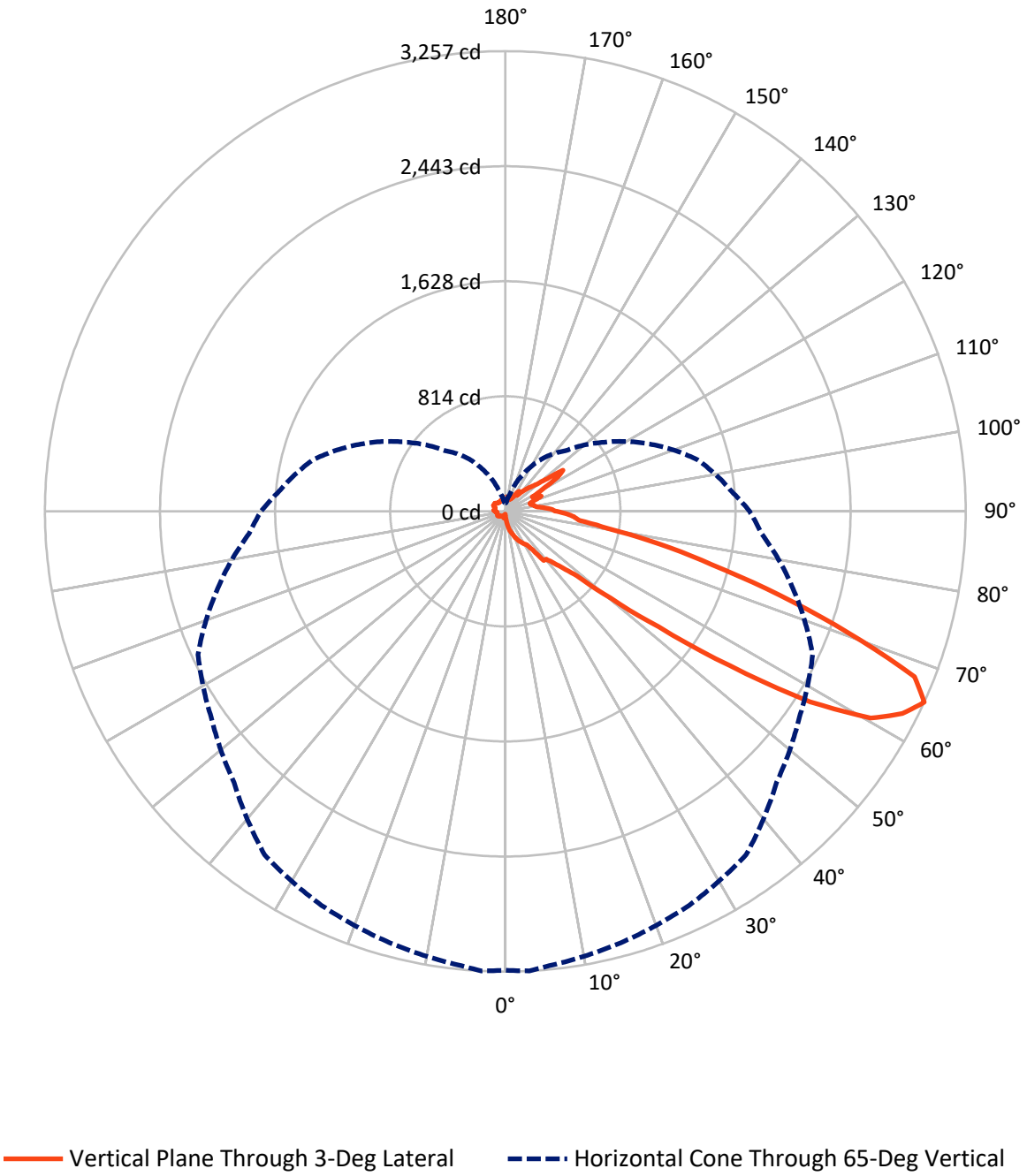
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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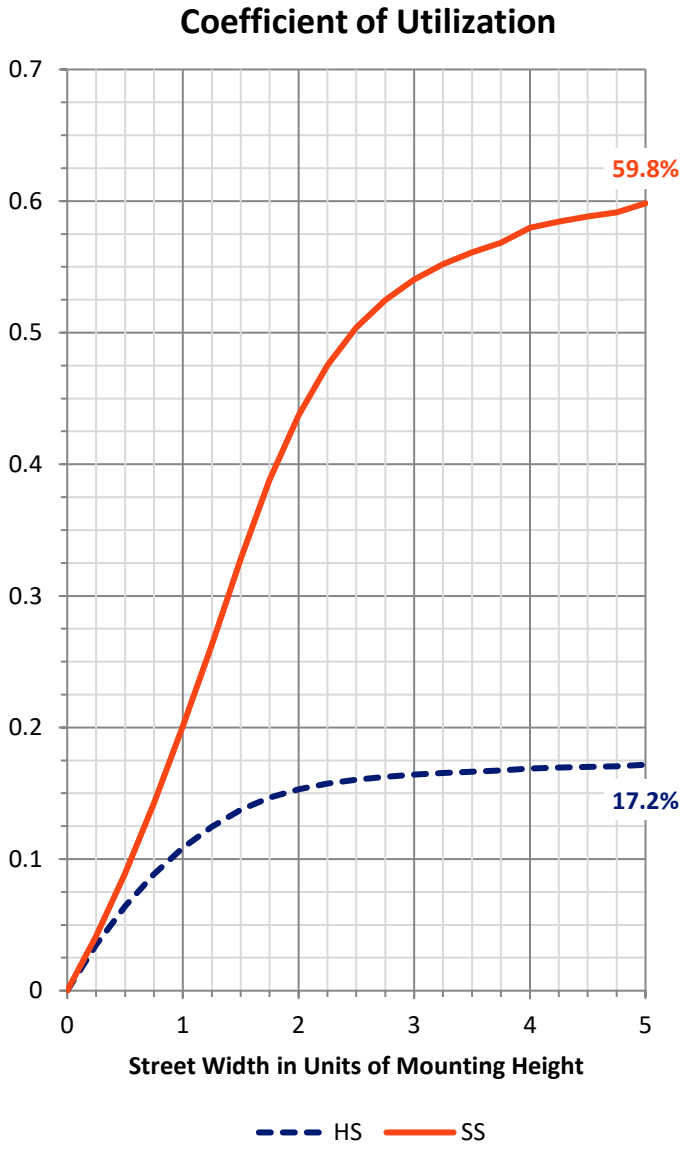
REPORT NUMBER: P1045781
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.3	368.8	1316.1
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	3311.6	686.3	3997.9
	% Fixture	62.3	12.9	75.2
Total	Lumens	4258.9	1055.0	5314.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	30.1	0.6
20°-30°	66.3	1.2
30°-40°	132.3	2.5
40°-50°	285.6	5.4
50°-60°	976.6	18.4
60°-70°	1586.9	29.9
70°-80°	853.9	16.1
80°-90°	321.7	6.1
90°-100°	203.0	3.8
100°-110°	144.3	2.7
110°-120°	159.2	3.0
120°-130°	243.2	4.6
130°-140°	145.9	2.7
140°-150°	80.6	1.5
150°-160°	44.8	0.8
160°-170°	24.8	0.5
170°-180°	9.2	0.2
0°-90°	4258.9	80.1
0°-180°	5314.0	100.0



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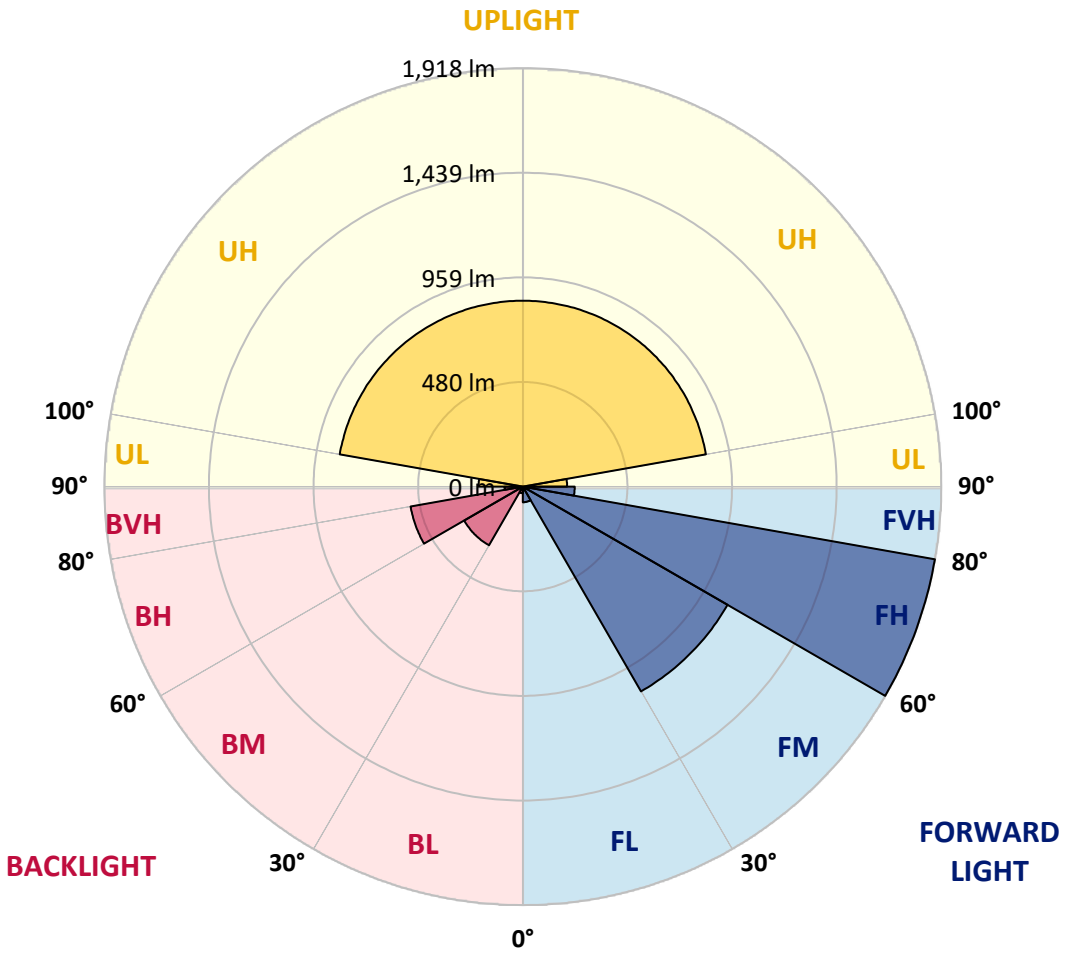
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	71.7	1.3			
FM	(30°-60°)	1083.9	20.4			
FH	(60°-80°)	1918.3	36.1			G2/5000
FVH	(80°-90°)	237.8	4.5			G3/500
BL	(0°-30°)	30.3	0.6	B0/110		
BM	(30°-60°)	310.6	5.8	B1/1000		
BH	(60°-80°)	522.5	9.8	B2/1000		G2/1000
BVH	(80°-90°)	84.0	1.6			G1/100
UL	(90°-100°)	203.0	3.8		U3/500	
UH	(100°-180°)	852.1	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°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	42.3	42.9	42.9	42.9	44.0	44.6	44.0	42.3	39.9	38.7	37.5
5°	61.3	62.5	61.9	61.9	60.7	60.7	58.9	57.7	56.5	52.4	48.2
7.5°	85.1	83.9	83.3	82.1	82.7	79.8	77.4	77.4	75.6	71.4	64.9
10°	110.1	110.1	108.3	107.7	106.6	105.4	101.2	98.8	98.8	91.7	83.9
12.5°	137.5	136.9	137.5	136.3	134.5	131.6	126.8	121.4	118.5	111.9	100.6
15°	155.4	154.8	154.8	154.2	153.0	150.0	146.4	141.1	133.3	126.8	116.1
17.5°	174.4	173.2	173.2	170.2	167.9	164.3	161.3	156.0	146.4	134.5	124.4
20°	195.2	195.2	195.2	191.1	186.3	181.6	177.4	172.6	165.5	147.6	133.3
22.5°	214.9	215.5	214.9	210.7	206.6	198.8	192.3	186.3	179.2	161.3	144.1
25°	233.9	235.1	234.5	234.5	229.2	219.1	210.1	201.2	196.4	178.6	154.8
27.5°	250.6	251.2	251.8	254.8	251.8	240.5	226.2	215.5	211.9	192.3	163.7
30°	266.7	268.5	268.5	271.4	270.8	258.3	241.1	229.2	222.0	203.0	172.6
32.5°	282.2	283.3	283.9	291.1	290.5	273.8	258.9	245.8	233.9	219.7	188.1
35°	338.1	336.3	345.3	350.6	346.4	331.6	313.7	289.3	272.6	256.0	222.0
37.5°	442.3	441.1	441.1	429.2	412.5	395.3	390.5	364.9	344.7	323.2	276.8
40°	445.3	445.3	447.0	460.1	468.5	446.4	425.6	400.6	396.4	374.4	317.9
42.5°	488.7	493.5	498.2	507.2	522.0	507.8	483.9	444.1	425.0	402.4	354.2
45°	562.5	569.7	567.3	570.9	567.3	554.8	553.0	531.0	502.4	458.9	394.1
47.5°	684.5	680.4	678.0	692.3	715.5	692.3	686.9	651.8	597.0	541.7	467.9
50°	984.6	966.7	985.2	982.2	978.0	956.6	940.5	905.4	816.1	726.2	619.7
52.5°	1386.4	1357.2	1373.9	1385.2	1373.3	1342.9	1294.7	1226.2	1106.0	989.9	849.4
55°	1970.3	1929.8	1935.2	1949.5	1957.8	1888.8	1819.7	1668.5	1488.2	1309.0	1156.6
57.5°	2615.0	2542.4	2590.0	2510.2	2477.5	2354.3	2295.9	2142.9	1931.0	1691.7	1445.9
60°	2978.1	2970.4	2961.4	2899.5	2865.0	2726.9	2590.0	2446.5	2256.6	1973.9	1686.4
62.5°	3135.8	3152.5	3139.4	3107.3	3076.3	2954.9	2716.8	2546.5	2392.4	2101.9	1815.0
65°	3247.1	3256.7	3234.6	3160.2	3076.3	2968.0	2713.8	2540.0	2398.9	2106.0	1820.3
67.5°	3119.8	3121.5	3094.8	2998.3	2828.1	2732.8	2486.4	2334.6	2196.5	1946.5	1679.2
70°	2569.7	2575.1	2558.4	2472.7	2329.9	2247.1	2009.6	1853.6	1749.5	1576.8	1379.8
72.5°	2003.1	2026.3	2002.5	1968.5	1832.8	1771.5	1612.0	1485.8	1389.9	1227.4	1068.5
75°	1506.0	1511.4	1512.0	1473.9	1402.4	1388.7	1279.2	1195.9	1112.5	979.2	862.5
77.5°	1092.3	1116.1	1107.8	1101.2	1007.8	1013.1	969.7	920.3	867.9	779.2	695.9
80°	725.0	737.5	722.6	726.2	713.7	710.7	670.3	636.9	604.8	563.7	531.0
82.5°	528.6	526.2	525.0	518.5	508.9	510.7	490.5	449.4	410.7	402.4	372.0
85°	488.7	486.9	485.1	473.2	453.0	440.5	429.2	412.5	388.7	351.2	311.9
87.5°	427.4	428.0	423.8	411.3	398.2	394.7	385.7	375.0	363.1	335.1	300.6
90°	351.8	350.0	350.6	343.5	345.8	344.7	331.0	317.9	313.1	289.3	269.1
92.5°	325.0	323.2	323.8	318.5	310.1	308.3	293.5	277.4	270.2	255.4	239.9
95°	271.4	271.4	269.1	266.7	262.5	256.6	248.8	238.1	232.7	220.8	205.4
97.5°	228.0	225.6	227.4	223.2	219.7	217.3	211.3	200.6	195.2	186.3	174.4
100°	211.9	211.9	211.3	209.5	200.6	195.8	189.3	179.2	175.0	167.3	158.3
102.5°	203.0	202.4	201.8	200.0	191.7	183.3	175.0	169.1	164.3	157.7	148.2
105°	185.7	185.7	186.9	186.3	180.4	175.0	166.1	160.7	156.0	149.4	140.5
107.5°	183.9	183.3	183.3	176.2	168.5	165.5	158.9	154.2	150.0	143.5	133.3
110°	210.7	211.9	213.7	201.8	183.3	175.6	166.1	160.7	156.0	147.6	136.9

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	276.2	*276.2*	275.0	268.5	236.3	214.9	210.1	196.4	188.7	176.2	161.3
115°	248.2	*248.8*	248.2	250.0	247.6	220.8	225.6	203.0	216.1	186.9	176.8
117.5°	216.7	*216.1*	213.7	214.3	216.7	233.9	196.4	191.1	196.4	170.2	161.3
120°	302.4	*297.0*	302.4	280.4	276.8	279.8	258.3	254.2	231.6	200.0	176.2
122.5°	445.3	*436.9*	448.8	441.1	447.0	427.4	406.6	389.3	364.3	311.3	263.7
125°	503.0	*501.2*	498.2	487.5	478.0	469.7	473.2	479.8	466.1	423.2	367.9
127.5°	370.3	*375.0*	373.2	394.7	415.5	410.7	398.2	404.2	411.3	408.9	376.2
130°	295.2	*299.4*	301.8	322.6	340.5	340.5	320.3	314.9	320.8	333.3	320.8
132.5°	258.9	*260.1*	261.3	268.5	283.3	290.5	278.0	269.7	272.0	278.6	267.9
135°	233.3	*232.7*	231.0	226.2	227.4	234.5	239.9	238.7	236.9	236.9	231.0
137.5°	202.4	*201.8*	201.8	194.7	191.7	197.6	205.4	212.5	207.7	201.2	194.1
140°	168.5	*167.9*	168.5	172.6	173.8	174.4	178.6	178.6	178.6	178.0	175.0
142.5°	139.9	*140.5*	141.7	152.4	157.7	157.7	152.4	147.6	147.0	150.6	151.2
145°	172.0	*172.0*	172.6	172.0	168.5	164.9	161.3	161.3	157.7	149.4	145.2
147.5°	153.6	*156.0*	154.2	156.0	157.1	157.7	157.1	158.9	159.5	154.8	148.2
150°	120.8	*120.2*	119.1	120.8	123.8	127.4	128.6	129.8	130.4	130.4	130.4
152.5°	104.8	*105.4*	104.8	106.6	108.3	108.9	110.7	110.7	111.3	110.7	109.5
155°	101.8	*101.8*	101.8	101.8	102.4	103.6	106.0	107.1	106.0	104.2	101.2
157.5°	94.6	*94.6*	94.6	95.2	96.4	97.6	99.4	100.6	100.6	99.4	97.0
160°	90.5	*90.5*	90.5	90.5	91.7	92.9	94.1	95.2	95.2	94.6	92.9
162.5°	85.7	*85.7*	85.7	86.3	87.5	88.7	89.9	91.1	90.5	90.5	89.3
165°	85.1	*85.1*	85.1	85.7	86.9	88.7	89.3	89.3	89.9	89.9	89.9
167.5°	87.5	*87.5*	88.1	88.1	89.3	89.9	91.1	91.7	92.3	91.7	91.7
170°	91.1	*91.1*	91.1	91.7	92.3	92.3	92.9	92.9	93.5	93.5	93.5
172.5°	95.8	*95.8*	95.8	95.8	95.2	95.2	95.2	95.2	95.8	95.2	95.8
175°	101.2	*101.2*	101.2	100.6	100.0	100.0	99.4	99.4	98.8	98.2	98.2
177.5°	101.8	*101.8*	101.8	101.8	101.2	100.6	100.6	100.0	99.4	99.4	99.4
180°	99.4	*99.4*	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	36.3	35.1	32.1	29.8	28.0	25.6	23.8	22.0	20.8	20.2	19.6
5°	47.6	45.2	41.7	38.1	35.1	31.0	28.6	24.4	21.4	20.2	19.6
7.5°	62.5	60.7	58.9	58.3	57.1	51.8	44.0	38.1	36.9	35.7	36.9
10°	79.8	76.2	70.8	73.8	73.8	63.7	53.0	47.0	46.4	48.8	49.4
12.5°	95.8	91.1	84.5	83.9	77.4	63.7	52.4	46.4	45.8	46.4	47.0
15°	110.7	105.4	98.2	92.3	82.1	67.9	54.8	47.0	45.2	47.0	47.0
17.5°	119.1	113.7	103.6	92.3	80.4	67.3	54.2	45.8	41.7	39.3	39.3
20°	129.2	125.0	111.3	97.0	81.0	66.7	53.6	44.6	39.9	37.5	36.9
22.5°	138.1	133.3	118.5	103.0	84.5	66.7	51.8	44.0	39.9	37.5	36.9
25°	148.8	141.7	126.8	109.5	87.5	66.7	51.8	44.6	40.5	38.1	37.5
27.5°	156.0	147.6	133.3	114.3	91.1	67.9	53.6	45.2	40.5	38.1	38.1
30°	163.1	155.4	138.7	120.8	95.2	70.8	56.5	47.6	42.3	39.3	39.3
32.5°	177.4	167.3	147.0	126.2	98.8	73.2	59.5	50.0	44.0	41.1	41.1
35°	209.5	195.2	170.8	141.7	103.6	75.6	62.5	53.0	45.2	41.7	41.7
37.5°	258.3	240.5	210.7	170.8	115.5	79.2	64.9	54.2	46.4	43.5	42.9
40°	290.5	268.5	232.7	194.1	132.7	85.1	67.9	56.0	47.6	44.0	43.5
42.5°	329.2	302.4	254.8	201.2	141.7	97.6	73.8	58.9	49.4	44.6	44.0
45°	364.3	341.7	297.0	235.1	167.3	116.1	84.5	64.3	52.4	46.4	45.8
47.5°	435.7	400.6	341.1	277.4	199.4	144.1	103.0	72.6	57.1	48.8	47.6
50°	575.0	538.7	466.7	367.9	257.7	183.3	132.7	88.1	63.1	51.2	49.4
52.5°	781.0	714.3	634.0	500.6	365.5	264.9	188.1	124.4	75.0	53.6	50.6
55°	1056.6	1018.5	876.2	706.6	520.9	396.4	289.3	193.5	111.9	56.5	51.2
57.5°	1372.7	1297.1	1167.3	956.0	696.5	504.8	391.1	288.1	164.9	66.1	54.2
60°	1576.3	1497.7	1348.9	1135.2	847.7	601.8	445.9	320.8	186.9	67.9	56.5
62.5°	1707.8	1597.7	1409.0	1159.0	891.7	641.7	470.9	304.8	159.5	66.1	58.3
65°	*1728.0*	*1608.4*	*1409.0*	*1126.2*	*851.8*	*609.0*	*455.4*	*281.6*	*125.6*	*63.1*	*60.7*
67.5°	1608.4	1478.6	1313.1	1032.8	764.3	522.0	391.1	229.8	95.2	61.3	60.1
70°	1302.4	1220.9	1070.3	841.7	610.1	427.4	311.3	176.2	77.4	59.5	58.9
72.5°	995.3	936.3	831.0	656.0	470.3	329.8	237.5	138.7	69.6	58.3	57.7
75°	792.3	738.7	653.0	505.4	358.9	254.2	177.4	106.6	63.7	58.3	57.1
77.5°	653.6	606.6	529.2	400.6	261.9	189.9	134.5	86.3	62.5	58.3	57.7
80°	503.0	469.1	411.3	291.1	187.5	142.3	107.1	76.8	62.5	59.5	58.9
82.5°	356.6	343.5	300.0	226.8	157.7	123.8	98.8	75.6	63.7	60.7	60.1
85°	296.4	281.0	250.0	197.6	147.0	119.6	97.6	77.4	66.7	64.3	63.7
87.5°	285.7	275.6	245.2	191.1	141.1	114.3	93.5	75.6	66.7	65.5	66.1
90°	258.3	247.0	223.8	178.0	135.1	113.7	95.2	78.6	69.1	67.9	67.3
92.5°	234.5	228.0	207.7	172.0	139.3	117.9	100.6	85.7	78.0	75.6	75.6
95°	200.6	194.1	182.7	157.7	132.7	115.5	100.6	87.5	81.0	79.8	79.2
97.5°	170.8	166.7	157.1	137.5	117.9	103.6	90.5	80.4	75.0	73.2	73.2
100°	156.0	152.4	144.6	131.6	116.7	104.8	94.1	85.1	80.4	79.2	79.2
102.5°	145.2	142.3	135.1	125.6	112.5	103.0	94.1	86.3	81.0	79.8	80.4
105°	136.3	133.3	126.2	116.7	106.0	95.8	89.3	83.3	77.4	75.6	75.6
107.5°	129.8	126.8	120.8	111.3	102.4	93.5	86.3	81.6	76.8	75.6	75.6
110°	132.7	128.6	119.6	109.5	101.8	94.1	88.1	83.3	79.8	78.0	78.0

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

Scaled Data Report

REPORT NUMBER: P1045781
CATALOG NUMBER: FFX-CLB-60-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	155.4	148.8	133.9	119.6	109.5	100.6	94.1	87.5	84.5	82.1	82.1
115°	170.2	163.7	148.8	131.6	116.7	104.2	95.2	89.9	86.3	88.7	87.5
117.5°	155.4	150.6	139.3	126.8	114.9	104.2	96.4	92.9	90.5	93.5	94.6
120°	170.8	161.9	153.0	138.7	116.7	101.8	96.4	95.2	95.2	92.9	92.9
122.5°	244.1	229.2	195.8	171.4	141.1	124.4	114.3	104.8	95.2	91.7	91.1
125°	341.7	313.7	271.4	228.6	186.9	151.8	122.6	104.8	95.8	90.5	89.3
127.5°	359.5	335.1	296.4	244.7	188.1	148.2	122.0	108.3	98.2	92.3	91.7
130°	303.6	291.7	257.2	212.5	169.1	138.1	120.8	108.3	98.8	93.5	92.3
132.5°	257.7	249.4	217.3	181.6	150.6	128.0	112.5	98.8	89.9	85.1	83.9
135°	221.4	216.1	188.1	162.5	139.3	120.8	104.8	91.7	84.5	81.6	81.0
137.5°	189.9	184.5	165.5	147.6	129.8	113.7	100.6	89.3	82.7	81.0	80.4
140°	170.2	165.5	153.6	134.5	117.3	100.6	91.1	83.9	80.4	79.2	78.6
142.5°	148.2	142.9	129.8	116.1	104.2	91.1	84.5	81.6	79.8	78.6	78.0
145°	140.5	136.9	122.0	109.5	98.2	91.7	88.1	83.9	80.4	78.0	77.4
147.5°	142.3	138.1	125.0	113.1	103.0	95.8	89.9	83.9	79.2	76.8	76.2
150°	127.4	126.2	118.5	108.9	99.4	91.7	85.7	81.0	78.0	77.4	77.4
152.5°	106.6	106.0	102.4	97.0	90.5	84.5	80.4	78.0	78.0	79.2	79.8
155°	100.0	98.2	95.8	92.3	86.9	82.7	79.8	78.6	79.2	80.4	80.4
157.5°	96.4	94.6	92.3	89.3	86.3	82.7	80.4	79.8	81.0	82.1	82.1
160°	91.7	90.5	88.7	85.7	83.3	81.6	80.4	80.4	81.0	81.6	81.6
162.5°	88.7	87.5	85.7	83.9	82.7	82.1	81.6	81.0	81.6	82.1	82.1
165°	88.7	88.1	85.7	83.9	83.3	83.3	83.3	83.3	83.3	82.7	82.7
167.5°	91.1	90.5	88.7	87.5	86.9	87.5	87.5	86.9	86.3	85.1	85.1
170°	93.5	92.9	92.3	91.7	91.1	91.7	91.7	91.7	91.1	91.1	90.5
172.5°	95.8	95.2	94.6	94.1	94.1	94.1	94.6	95.2	95.2	95.2	95.2
175°	98.2	98.2	97.0	96.4	96.4	96.4	97.0	97.0	97.6	97.6	97.6
177.5°	99.4	99.4	99.4	99.4	100.0	99.4	99.4	98.8	98.8	98.8	98.8
180°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

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

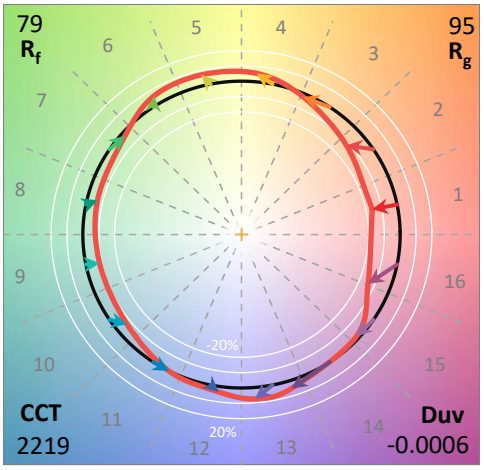
Test Information

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

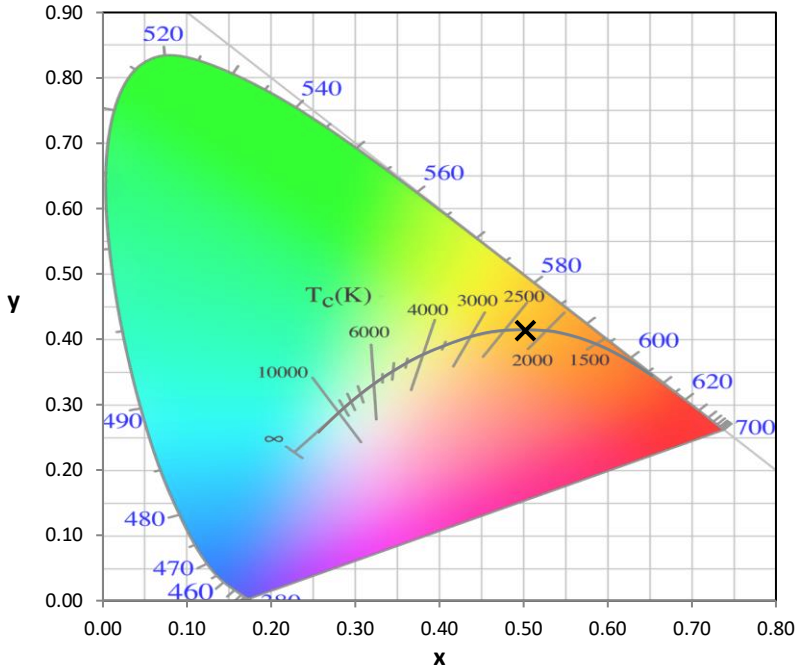
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

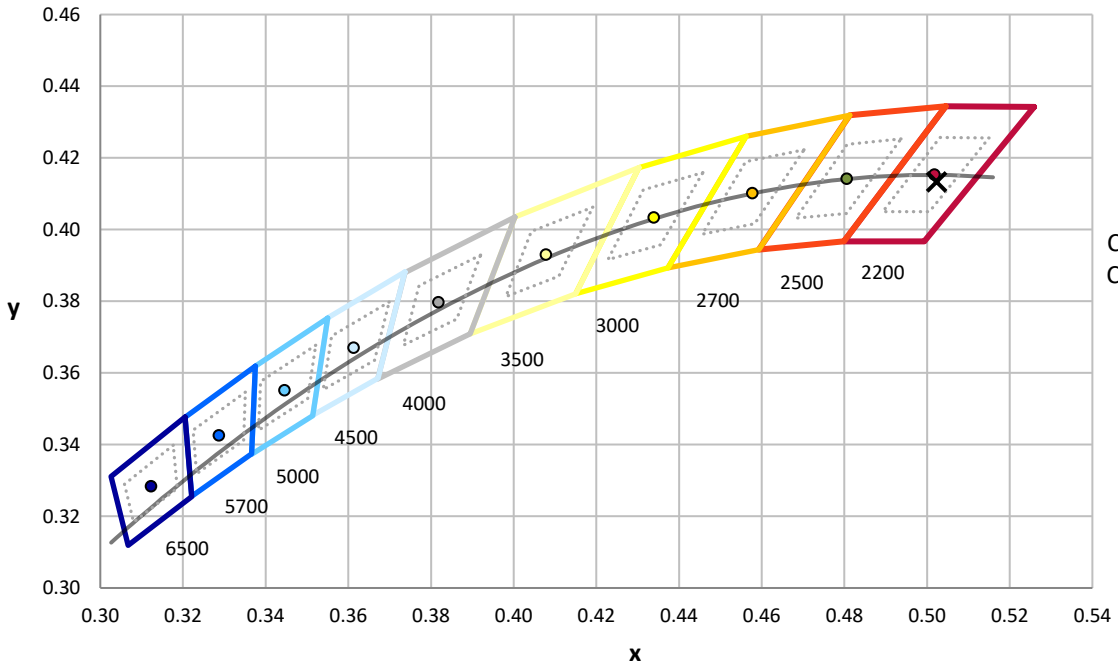
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

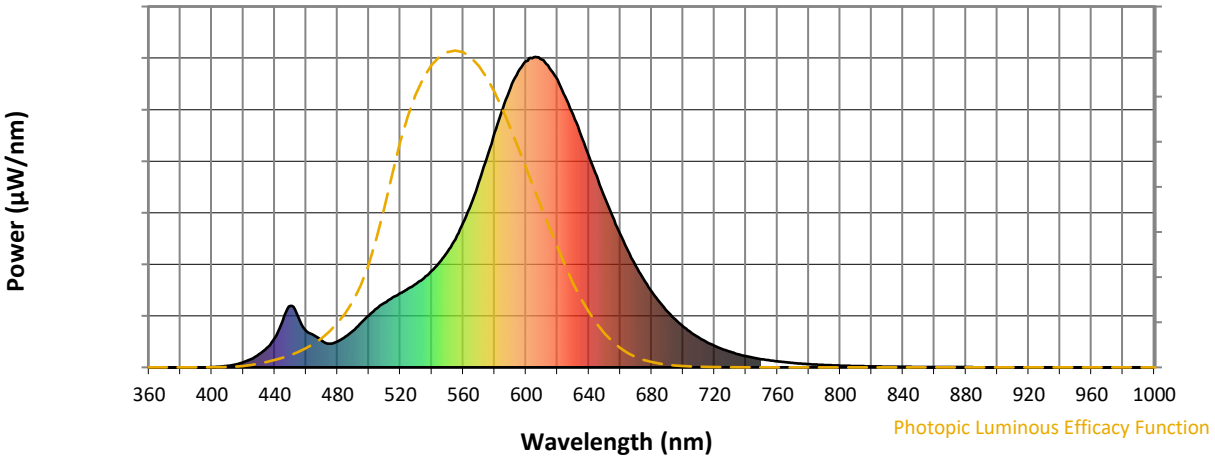


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

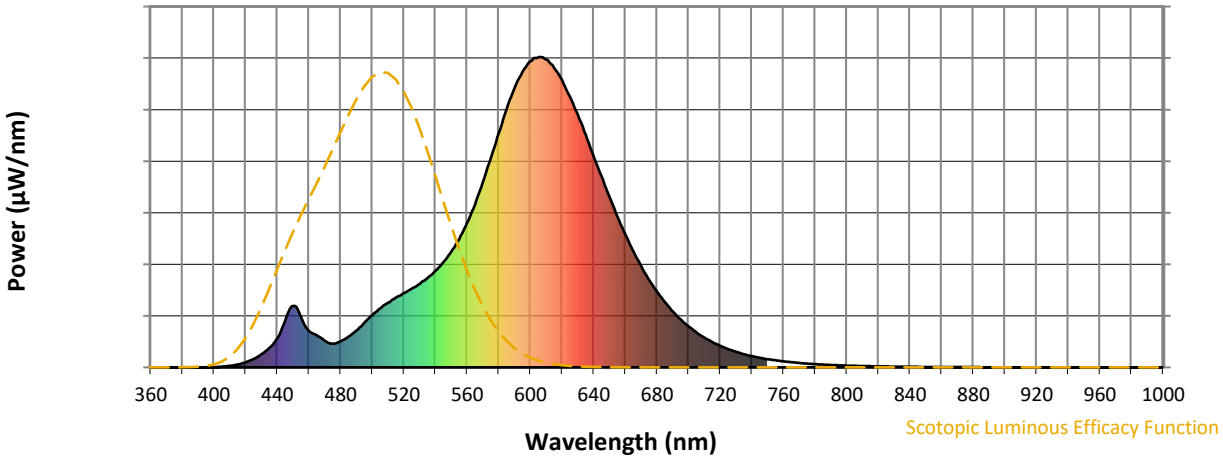


Photopic Lumens: NR

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

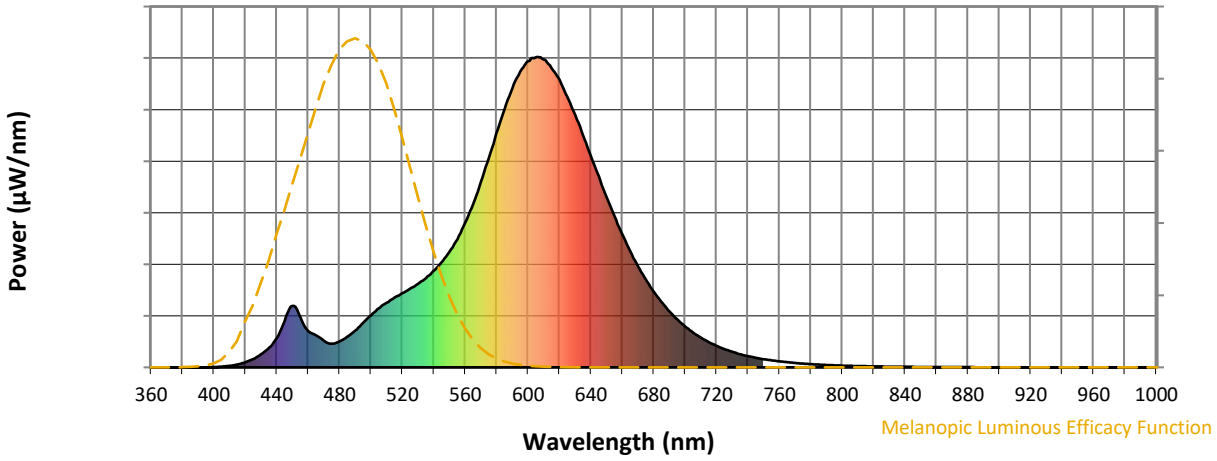


Scotopic Lumens: NR **S/P: 0.94**

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			

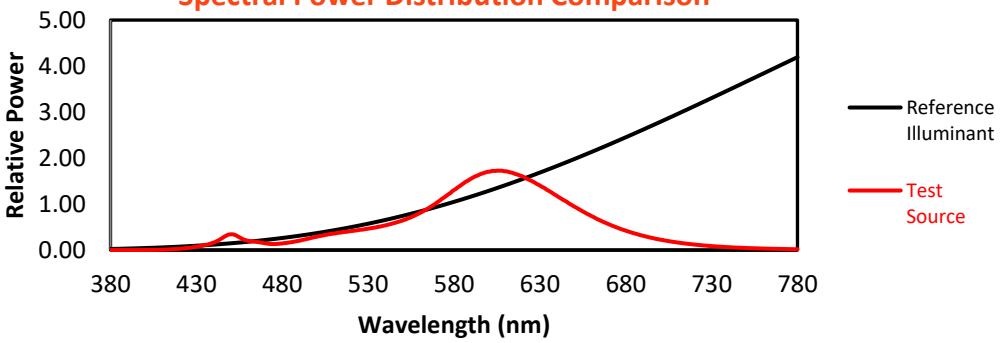
REPORT NUMBER: SP1-2501-332-2

TM-30-18

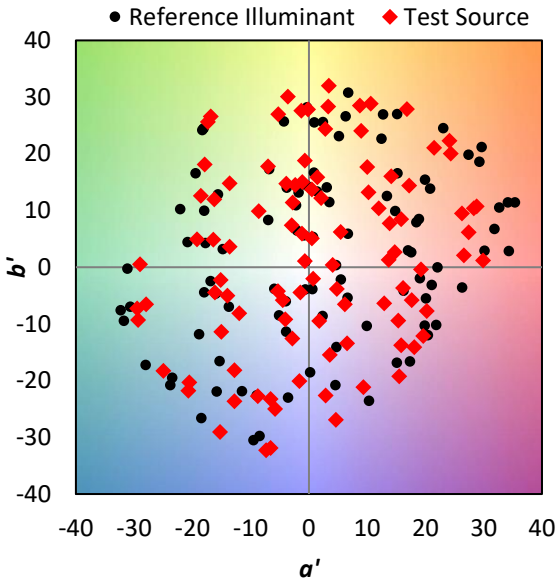
Summary

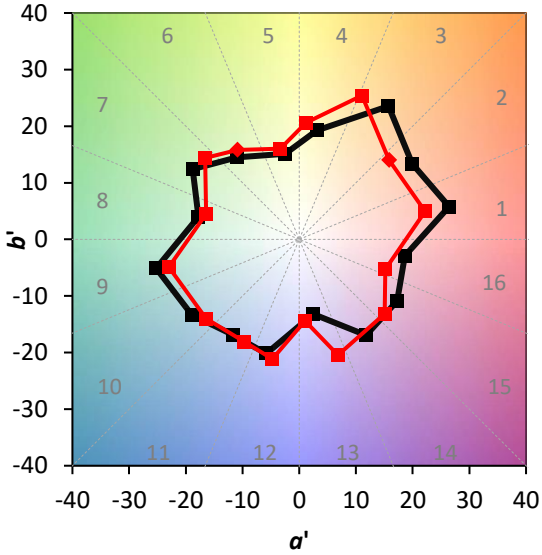
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

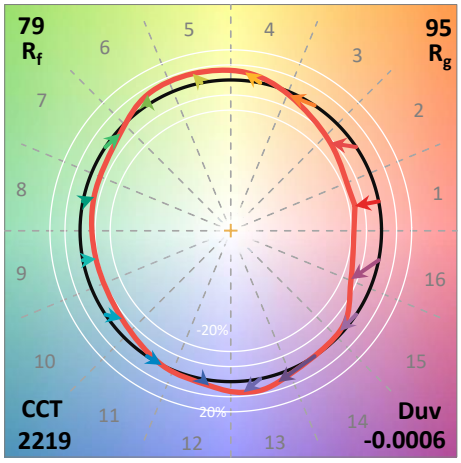
Spectral Power Distribution Comparison

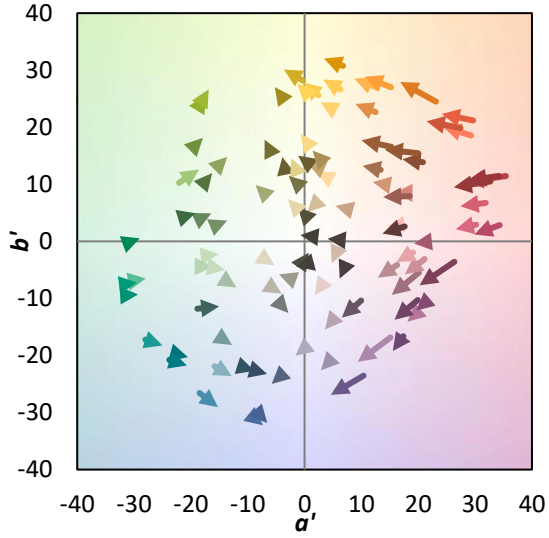


Color Vector Graphics







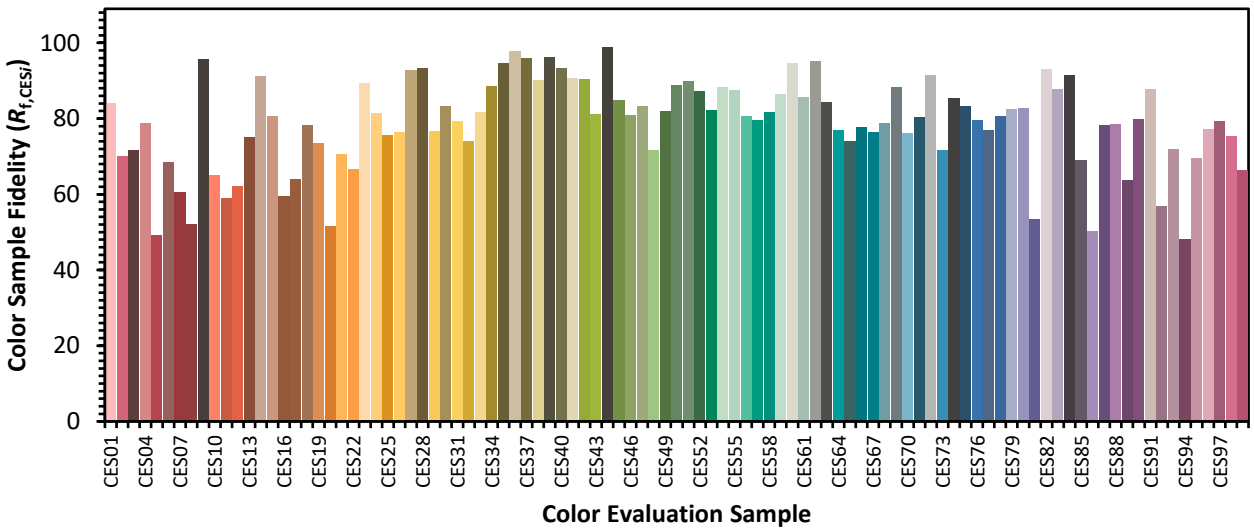


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

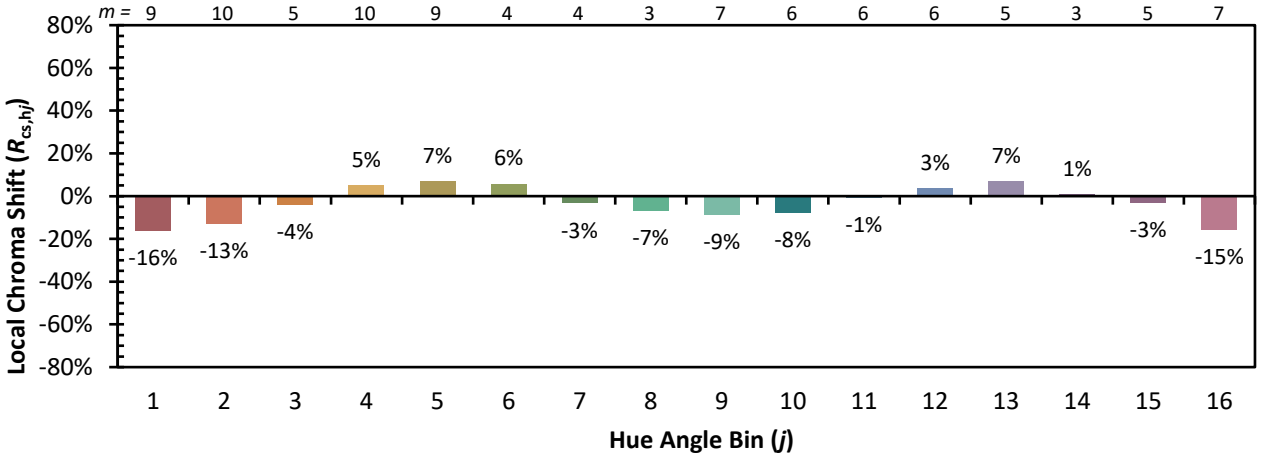
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 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	

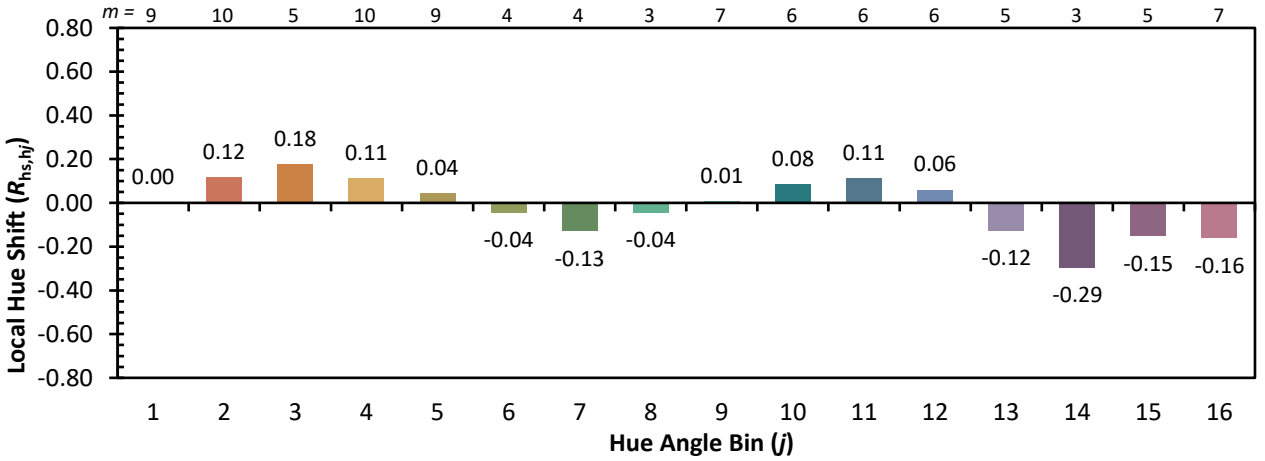


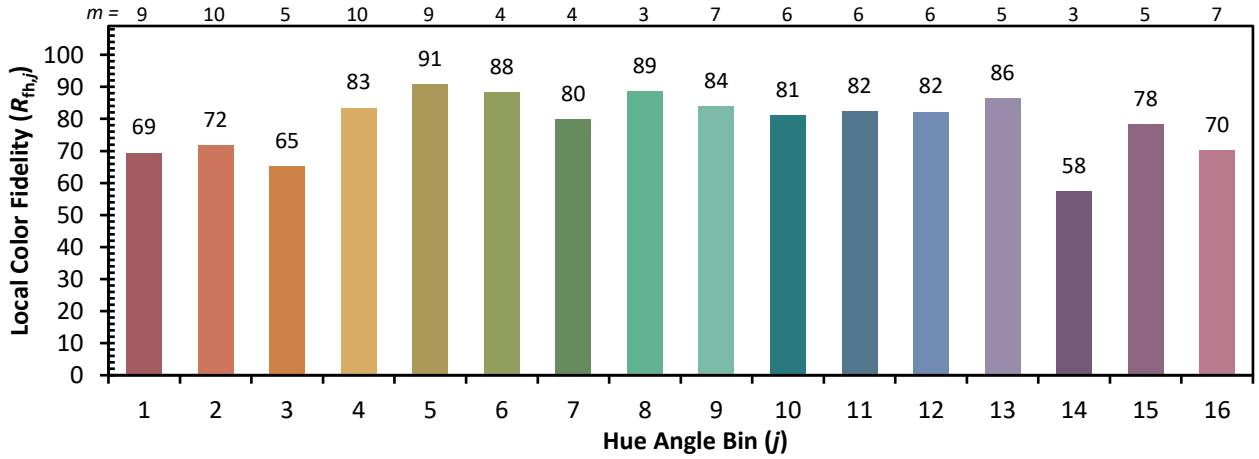
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Color Rendition by Hue-Angle Bin



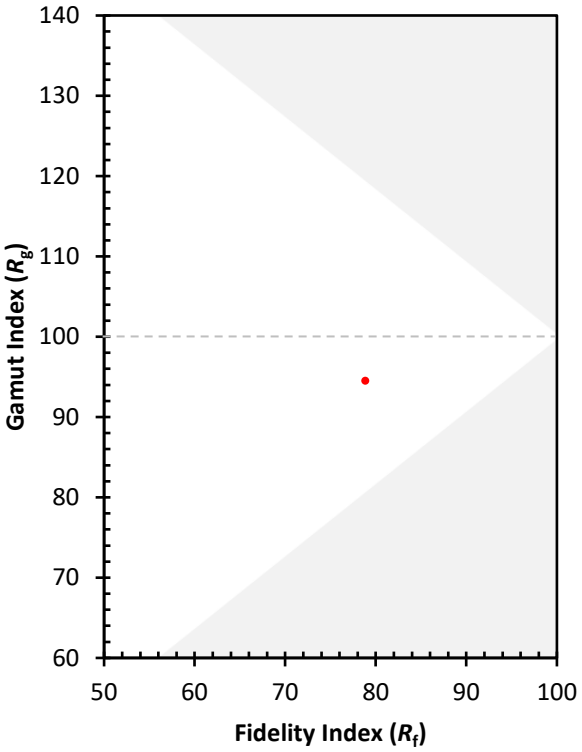


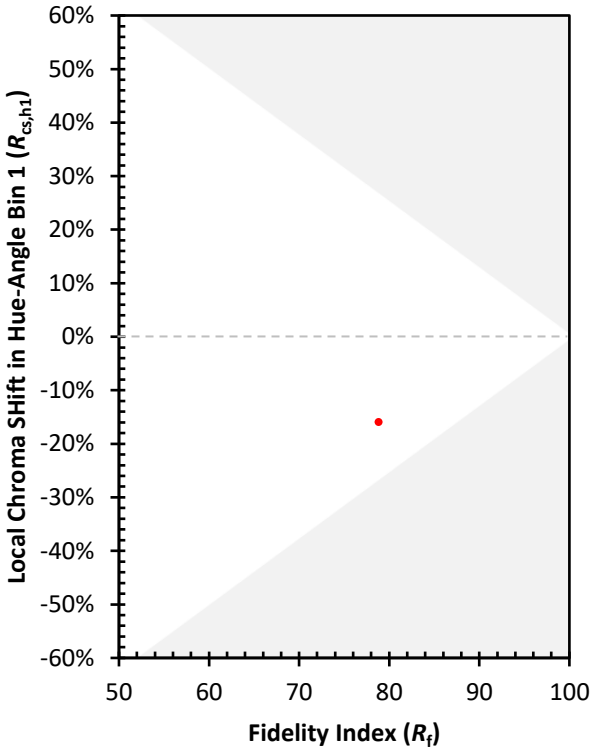


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Measure Comparisons





(END OF REPORT)