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: P1045734

Luminaire Tested: **FFX-CLB-80-722-U-FR-T5-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:	P1045734
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6888.4 lumens
Efficiency:	N/A
Efficacy:	84.2 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):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

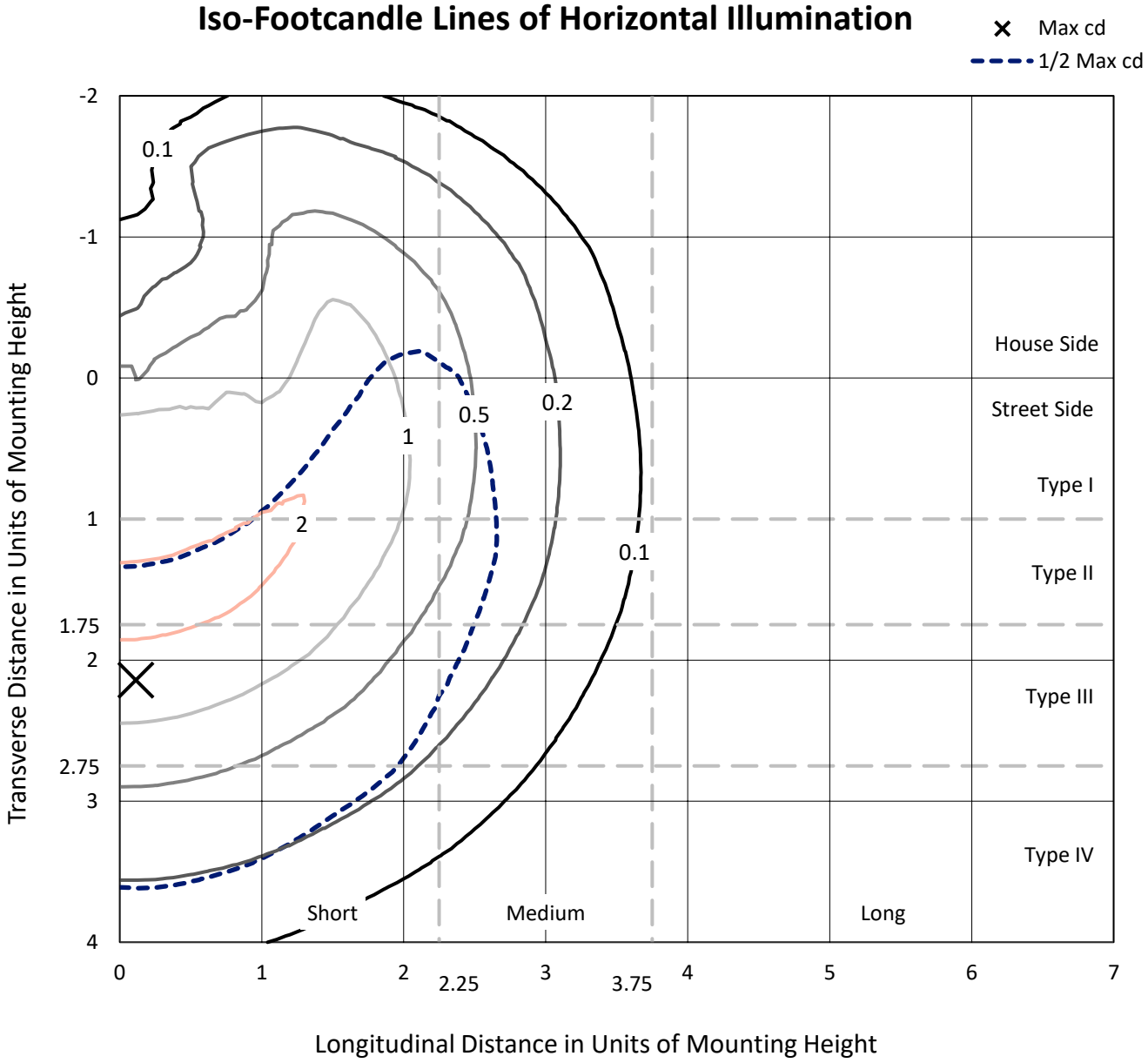


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Iso-Footcandle Lines of Horizontal Illumination



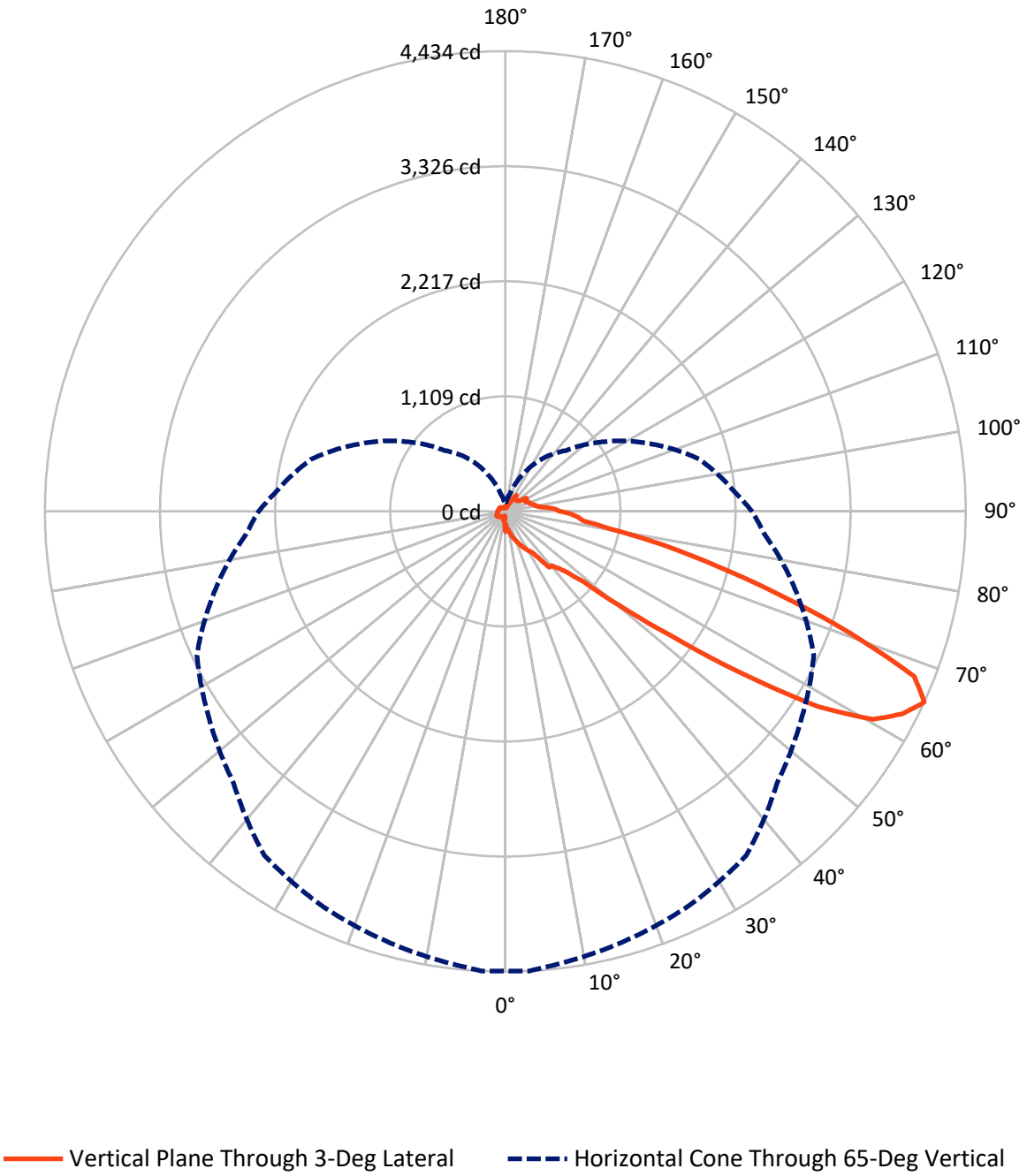
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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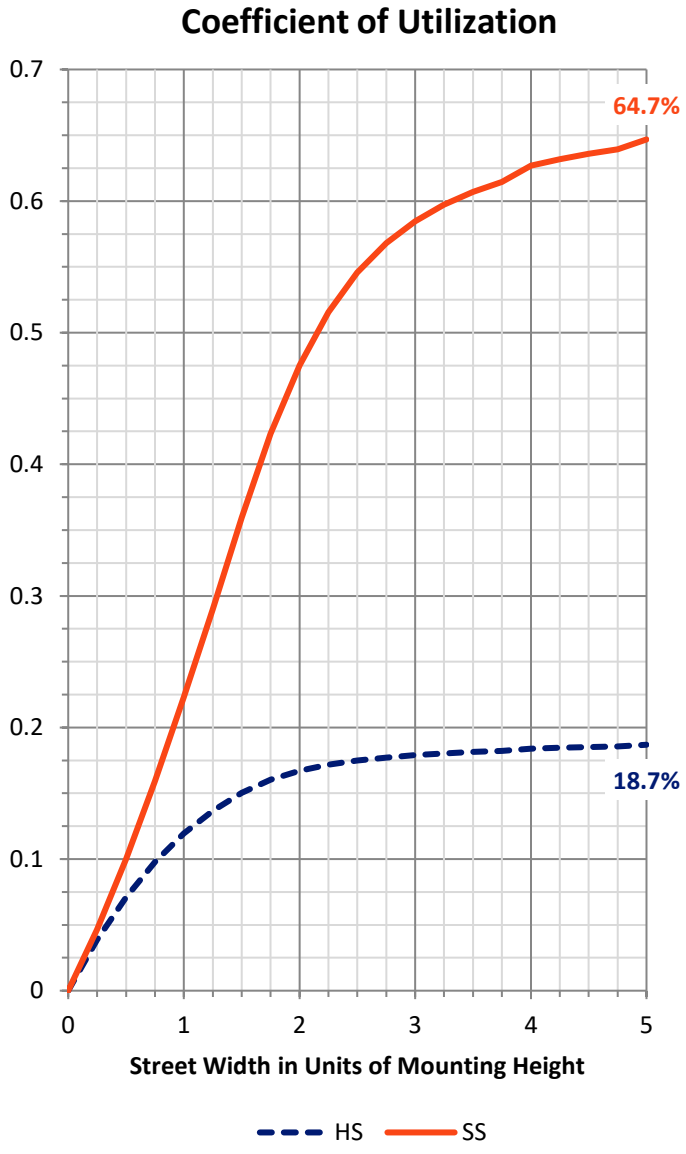
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1332.7	289.7	1622.4
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	4647.2	618.8	5266.0
	% Fixture	67.5	9.0	76.4
Total	Lumens	5979.9	908.5	6888.4
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.2
10°-20°	46.9	0.7
20°-30°	104.7	1.5
30°-40°	211.7	3.1
40°-50°	425.1	6.2
50°-60°	1364.3	19.8
60°-70°	2176.2	31.6
70°-80°	1183.8	17.2
80°-90°	454.9	6.6
90°-100°	271.1	3.9
100°-110°	179.9	2.6
110°-120°	143.4	2.1
120°-130°	119.5	1.7
130°-140°	82.3	1.2
140°-150°	66.5	1.0
150°-160°	29.7	0.4
160°-170°	12.0	0.2
170°-180°	4.1	0.1
0°-90°	5979.9	86.8
0°-180°	6888.4	100.0



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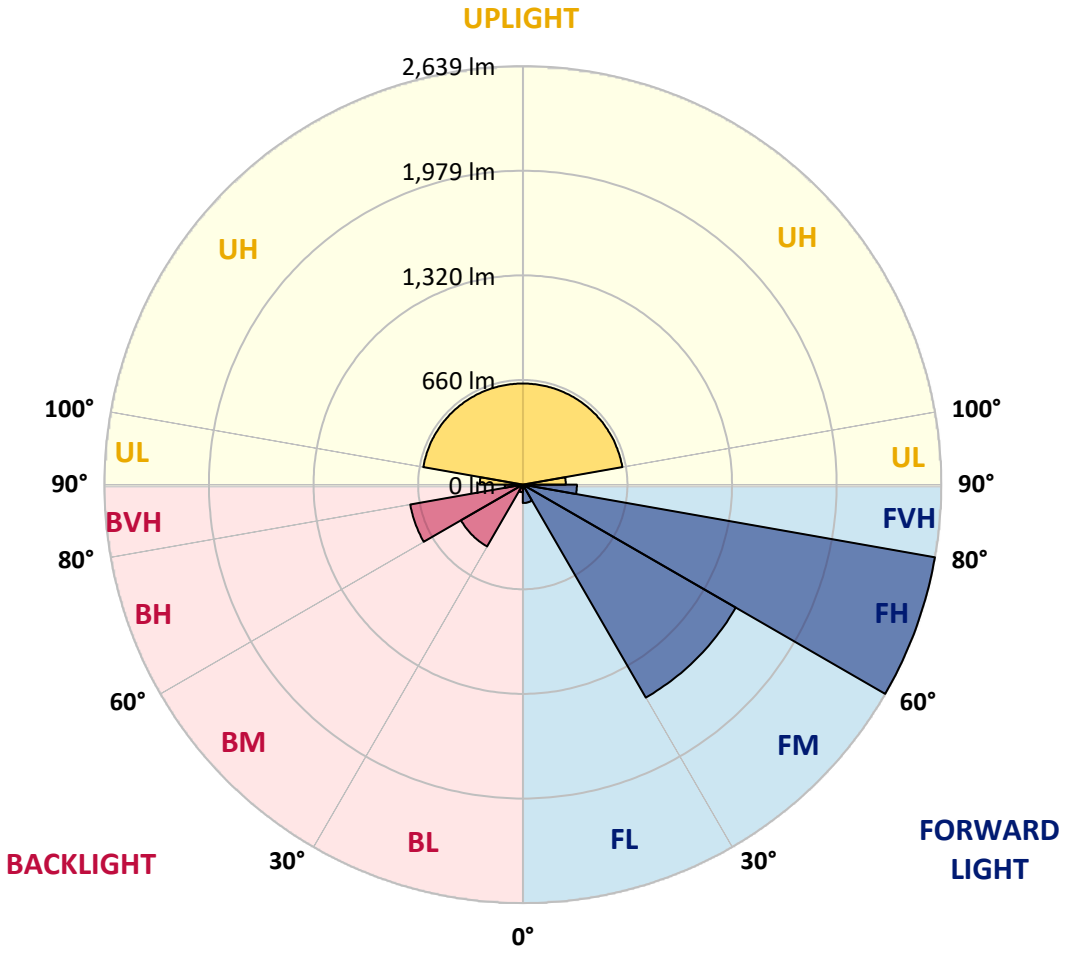
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	116.2	1.7			
FM	(30°-60°)	1550.8	22.5			
FH	(60°-80°)	2639.2	38.3			G2/5000
FVH	(80°-90°)	341.0	5.0			G3/500
BL	(0°-30°)	47.8	0.7	B0/110		
BM	(30°-60°)	450.3	6.5	B1/1000		
BH	(60°-80°)	720.7	10.5	B2/1000		G2/1000
BVH	(80°-90°)	113.9	1.7			G2/225
UL	(90°-100°)	271.1	3.9		U3/500	
UH	(100°-180°)	637.4	9.3		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°	194.7	*194.7*	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	125.8	*125.0*	127.4	138.5	167.0	176.5	168.6	155.1	152.7	167.0	178.1
5°	171.7	*170.2*	168.6	157.5	146.4	152.0	167.8	171.7	155.9	126.6	107.6
7.5°	174.1	*172.5*	173.3	173.3	171.0	160.7	148.8	154.3	167.8	149.6	117.9
10°	193.9	*193.1*	193.1	192.3	189.9	186.8	186.0	174.1	153.5	137.7	131.4
12.5°	226.4	*226.4*	225.6	224.8	222.4	216.9	209.7	200.2	193.9	174.9	155.1
15°	252.5	*250.1*	251.7	249.3	245.3	242.2	233.5	223.2	204.2	191.5	174.1
17.5°	277.8	*277.8*	278.6	274.6	269.9	267.5	258.0	244.6	226.4	204.2	187.6
20°	309.5	*307.1*	307.1	303.1	297.6	289.7	281.0	269.1	254.1	224.0	201.8
22.5°	339.5	*340.3*	340.3	334.0	325.3	318.2	306.3	292.0	277.8	246.9	218.4
25°	373.6	*372.8*	372.0	371.2	362.5	349.8	334.8	319.7	309.5	279.4	239.8
27.5°	405.2	*403.6*	402.8	406.8	398.9	386.2	364.1	345.9	334.8	303.9	259.6
30°	440.0	*439.2*	439.2	440.8	437.7	417.9	394.1	372.8	356.9	326.1	278.6
32.5°	470.9	*469.3*	470.1	476.4	475.7	450.3	429.0	402.8	383.1	358.5	306.3
35°	546.9	*543.7*	548.5	558.0	565.1	538.2	508.9	468.5	438.5	413.1	359.3
37.5°	683.8	*684.6*	686.2	673.5	646.6	626.8	612.6	580.1	542.9	500.2	436.9
40°	689.3	*688.6*	692.5	711.5	722.6	688.6	655.3	617.3	607.8	571.4	490.7
42.5°	753.4	*748.7*	752.7	770.9	785.9	765.3	736.0	671.9	637.1	604.7	538.2
45°	845.3	*839.7*	846.8	850.0	846.8	824.7	829.4	777.2	744.7	679.1	586.5
47.5°	985.3	*1010.7*	1014.6	1015.4	1047.1	1017.0	998.0	948.1	874.5	796.2	690.9
50°	1383.4	*1424.6*	1410.3	1396.9	1399.3	1376.3	1350.2	1281.3	1182.4	1050.2	899.9
52.5°	1974.6	*1958.8*	1961.2	1969.9	1992.0	1890.0	1845.6	1742.0	1582.1	1423.8	1206.9
55°	2698.0	*2724.9*	2723.3	2751.8	2747.9	2637.9	2497.8	2323.7	2091.0	1859.1	1602.7
57.5°	3592.3	*3544.9*	3513.2	3461.0	3415.8	3266.3	3173.7	2985.3	2677.4	2329.2	2000.0
60°	4094.1	*4068.0*	4060.1	3988.1	3926.3	3742.7	3552.0	3347.8	3107.2	2695.6	2322.1
62.5°	4282.5	*4295.1*	4284.1	4237.4	4196.2	4035.5	3715.0	3492.6	3277.3	2881.6	2488.3
65°	*4427.3*	*4434.4*	*4409.1*	*4303.0*	*4190.7*	*4046.6*	*3701.6*	*3482.3*	*3278.1*	*2888.7*	*2504.1*
67.5°	4250.0	*4248.4*	4228.7	4075.9	3886.0	3743.5	3430.1	3194.2	3020.9	2695.6	2324.5
70°	3529.0	*3533.8*	3537.7	3425.3	3217.2	3111.1	2793.8	2591.2	2441.6	2160.6	1893.9
72.5°	2762.9	*2777.2*	2783.5	2695.6	2541.3	2432.1	2220.0	2068.0	1928.7	1705.5	1495.8
75°	2078.3	*2092.6*	2088.6	2034.0	1925.6	1895.5	1792.6	1662.8	1546.5	1373.1	1195.9
77.5°	1559.1	*1547.3*	1544.1	1491.1	1384.2	1392.1	1362.9	1288.5	1198.2	1096.1	972.7
80°	1032.8	*1022.5*	1002.0	1020.2	1011.5	986.1	937.9	899.9	864.3	803.3	736.0
82.5°	759.8	*756.6*	752.7	740.8	732.9	726.5	705.2	644.2	601.5	566.7	526.3
85°	710.7	*701.2*	702.8	682.2	657.7	635.5	618.9	592.8	559.5	504.9	446.4
87.5°	620.5	*620.5*	615.7	601.5	577.0	571.4	559.5	541.3	521.6	479.6	427.4
90°	516.0	*512.9*	512.9	512.1	506.5	502.6	479.6	463.0	454.3	412.3	375.9
92.5°	476.4	*474.9*	471.7	467.7	451.9	448.7	425.8	404.4	385.4	359.3	330.8
95°	387.0	*390.2*	383.1	382.3	374.4	369.6	351.4	341.1	328.4	307.1	281.0
97.5°	326.9	*322.1*	322.9	315.8	307.9	304.7	293.6	278.6	266.7	250.1	231.1
100°	300.0	*299.2*	297.6	292.0	281.0	273.8	262.0	247.7	235.8	220.8	205.0
102.5°	282.5	*281.8*	281.0	276.2	263.5	259.6	248.5	237.4	227.1	213.7	193.1
105°	265.1	*264.3*	262.8	257.2	249.3	245.3	235.1	228.7	218.4	206.6	186.8
107.5°	249.3	*249.3*	248.5	242.2	237.4	234.3	224.0	218.4	207.4	197.1	178.1
110°	241.4	*241.4*	240.6	235.8	226.4	221.6	212.1	205.0	194.7	184.4	169.4

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	232.7	*233.5*	233.5	235.1	212.1	203.4	195.5	189.9	181.2	171.7	159.1
115°	212.9	*213.7*	212.9	220.8	212.9	201.0	196.3	186.8	175.7	160.7	147.2
117.5°	214.5	*214.5*	216.1	220.0	216.1	205.0	194.7	182.8	173.3	158.3	146.4
120°	243.0	*241.4*	241.4	233.5	231.9	221.6	214.5	201.8	186.0	171.0	154.3
122.5°	233.5	*232.7*	233.5	220.8	220.0	217.6	215.3	212.9	192.3	183.6	162.2
125°	186.8	*185.2*	184.4	179.7	187.6	182.0	180.4	186.0	172.5	164.6	152.7
127.5°	167.0	*165.4*	164.6	163.0	167.8	158.3	156.7	158.3	148.0	138.5	131.4
130°	159.9	*157.5*	157.5	163.0	170.2	162.2	153.5	147.2	143.3	136.9	125.0
132.5°	151.2	*151.2*	152.0	159.1	171.7	163.0	147.2	134.5	133.0	133.8	128.2
135°	148.8	*148.0*	148.8	146.4	145.6	140.9	133.8	123.5	121.1	127.4	121.1
137.5°	152.7	*152.0*	151.2	144.8	137.7	133.8	132.2	125.8	119.5	115.5	109.2
140°	151.2	*151.2*	150.4	148.8	144.0	136.1	134.5	128.2	121.9	114.8	106.8
142.5°	153.5	*155.9*	157.5	159.1	157.5	148.8	140.1	129.8	122.7	118.7	110.0
145°	189.2	*189.2*	189.2	186.0	180.4	173.3	167.0	159.9	154.3	141.7	129.8
147.5°	156.7	*156.7*	155.9	156.7	156.7	153.5	152.7	150.4	151.2	144.8	133.0
150°	108.4	*110.8*	110.8	114.8	116.3	114.8	114.8	116.3	114.0	113.2	106.8
152.5°	87.8	*87.1*	85.5	87.1	87.1	87.8	87.8	86.3	85.5	85.5	81.5
155°	77.6	*77.6*	77.6	76.8	75.2	76.0	76.8	76.8	74.4	72.8	69.6
157.5°	61.7	*60.9*	60.9	62.5	62.5	62.5	62.5	62.5	62.5	63.3	64.1
160°	52.2	*50.7*	51.4	51.4	52.2	53.0	52.2	53.0	53.0	53.8	53.0
162.5°	42.7	*41.9*	41.9	42.7	43.5	44.3	45.1	45.1	45.9	47.5	48.3
165°	38.0	*38.0*	38.0	38.8	38.8	39.6	40.4	41.2	42.7	45.1	45.9
167.5°	35.6	*35.6*	35.6	35.6	36.4	37.2	38.8	41.2	42.7	45.1	45.1
170°	34.8	*34.8*	35.6	35.6	35.6	36.4	39.6	41.9	42.7	43.5	43.5
172.5°	36.4	*36.4*	36.4	36.4	36.4	38.0	41.9	42.7	42.7	42.7	43.5
175°	38.0	*38.0*	37.2	37.2	38.0	38.8	39.6	43.5	45.1	45.9	47.5
177.5°	35.6	*35.6*	35.6	36.4	36.4	37.2	38.0	39.6	39.6	41.2	43.5
180°	39.6	*39.6*	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	186.0	199.4	182.8	165.4	152.7	159.9	167.8	161.5	154.3	155.1	141.7
5°	111.6	114.8	116.3	101.3	83.9	93.4	114.0	106.8	82.3	45.9	39.6
7.5°	107.6	102.9	101.3	112.4	102.1	68.1	53.0	48.3	64.1	76.8	80.7
10°	127.4	121.9	110.0	90.2	79.9	75.2	73.6	70.4	60.9	47.5	45.1
12.5°	146.4	140.1	129.0	119.5	106.1	88.6	77.6	74.4	79.9	89.4	89.4
15°	165.4	156.7	142.5	129.8	119.5	100.5	86.3	73.6	72.0	74.4	74.4
17.5°	178.9	169.4	152.7	135.3	117.1	98.9	82.3	69.6	64.1	62.5	62.5
20°	192.3	183.6	163.8	144.8	122.7	101.3	82.3	68.9	62.5	60.1	59.4
22.5°	209.7	198.7	176.5	155.9	129.0	102.9	81.5	69.6	62.5	58.6	57.8
25°	229.5	216.9	191.5	167.0	135.3	104.5	82.3	70.4	63.3	58.6	57.8
27.5°	245.3	231.9	207.4	179.7	143.3	108.4	85.5	72.0	64.1	59.4	58.6
30°	263.5	249.3	221.6	193.1	152.7	114.8	91.8	76.8	67.3	60.9	60.9
32.5°	291.2	272.3	241.4	205.8	162.2	121.9	98.9	82.3	70.4	65.7	65.7
35°	336.4	317.4	276.2	230.3	172.5	129.0	104.5	87.8	74.4	68.1	68.1
37.5°	408.4	379.9	334.0	270.7	189.2	134.5	110.8	91.8	76.8	68.1	66.5
40°	450.3	418.7	360.9	300.7	209.7	141.7	115.5	95.0	78.4	68.9	68.1
42.5°	497.0	460.6	386.2	308.7	223.2	158.3	122.7	98.1	79.9	71.2	69.6
45°	546.1	511.3	444.0	350.6	254.8	181.2	134.5	104.5	84.7	74.4	72.8
47.5°	635.5	592.8	505.7	410.0	301.5	217.6	160.7	114.8	90.2	77.6	76.0
50°	836.6	797.0	675.9	532.6	375.9	269.9	201.0	136.1	98.9	79.9	77.6
52.5°	1108.8	1038.4	901.4	721.8	524.7	378.3	268.3	183.6	112.4	82.3	78.4
55°	1504.5	1426.2	1223.6	989.3	718.6	549.3	406.0	276.2	159.9	84.7	77.6
57.5°	1897.9	1802.9	1632.7	1312.2	965.6	700.4	542.9	404.4	232.7	95.0	79.9
60°	2179.6	2064.1	1853.5	1559.9	1171.3	823.9	613.4	440.8	258.8	97.3	82.3
62.5°	2345.8	2201.0	1936.6	1586.0	1220.4	875.3	641.9	416.3	222.4	95.0	85.5
65°	*2375.9*	*2211.3*	*1936.6*	*1540.9*	*1169.7*	*830.2*	*620.5*	*384.6*	*175.7*	*91.0*	*87.8*
67.5°	2203.4	2049.8	1817.9	1415.1	1037.6	713.1	534.2	316.6	133.8	87.8	87.1
70°	1808.4	1692.9	1503.7	1156.3	842.1	580.1	425.0	243.8	108.4	83.9	82.3
72.5°	1411.1	1304.3	1162.6	907.0	651.4	459.8	324.5	190.7	96.6	80.7	79.9
75°	1110.4	1030.5	913.3	716.3	489.9	348.2	246.1	144.0	87.1	79.1	77.6
77.5°	908.6	856.3	735.2	546.9	365.6	258.8	183.6	114.8	83.1	77.6	76.8
80°	706.8	663.2	587.2	409.2	262.0	194.7	144.8	101.3	80.7	76.8	76.0
82.5°	504.1	489.1	425.0	318.2	218.4	167.0	130.6	97.3	79.9	76.0	75.2
85°	421.0	399.7	352.2	276.2	201.0	159.1	125.0	95.8	79.9	76.0	75.2
87.5°	406.8	387.8	344.3	263.5	189.2	149.6	119.5	92.6	78.4	74.4	74.4
90°	359.3	340.3	307.1	237.4	174.1	139.3	111.6	87.8	75.2	71.2	71.2
92.5°	318.2	307.1	275.4	217.6	167.0	133.8	107.6	85.5	73.6	70.4	69.6
95°	269.1	259.6	235.1	196.3	156.7	127.4	104.5	83.1	72.0	68.9	68.9
97.5°	223.2	215.3	196.3	166.2	135.3	113.2	94.2	78.4	69.6	67.3	67.3
100°	197.1	190.7	174.1	149.6	125.0	106.1	91.0	77.6	68.9	65.7	65.7
102.5°	186.8	180.4	163.8	141.7	118.7	101.3	88.6	76.0	68.1	64.9	64.1
105°	178.9	172.5	157.5	134.5	112.4	96.6	83.9	74.4	66.5	64.1	63.3
107.5°	171.0	163.8	149.6	126.6	106.8	91.8	80.7	72.0	65.7	63.3	63.3
110°	162.2	155.9	142.5	120.3	102.9	88.6	79.1	71.2	65.7	63.3	63.3

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

Scaled Data Report

REPORT NUMBER: P1045734
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	152.7	146.4	133.8	114.0	98.9	86.3	77.6	70.4	65.7	63.3	63.3
115°	141.7	136.1	124.3	107.6	94.2	83.1	75.2	68.9	64.1	62.5	62.5
117.5°	138.5	132.2	120.3	105.3	92.6	80.7	73.6	67.3	63.3	61.7	61.7
120°	145.6	136.9	124.3	110.0	92.6	79.1	72.0	66.5	62.5	60.9	60.9
122.5°	155.1	148.0	133.8	107.6	89.4	77.6	70.4	65.7	61.7	60.9	60.9
125°	146.4	141.7	128.2	99.7	86.3	76.0	69.6	65.7	62.5	60.9	60.9
127.5°	128.2	123.5	113.2	95.0	83.1	74.4	68.9	65.7	63.3	60.9	60.9
130°	121.1	114.8	105.3	91.0	79.9	72.0	68.1	65.7	63.3	60.1	59.4
132.5°	124.3	118.7	103.7	85.5	75.2	68.9	65.7	64.1	59.4	56.2	55.4
135°	117.1	111.6	96.6	81.5	72.8	68.1	64.9	60.1	55.4	51.4	51.4
137.5°	104.5	98.1	89.4	78.4	72.0	69.6	65.7	59.4	53.0	49.9	49.9
140°	103.7	96.6	88.6	77.6	70.4	64.1	59.4	53.0	48.3	46.7	45.9
142.5°	105.3	100.5	89.4	76.8	67.3	59.4	53.8	49.1	45.9	43.5	43.5
145°	121.9	114.8	100.5	83.9	72.8	63.3	55.4	49.1	44.3	40.4	39.6
147.5°	125.8	118.7	106.1	91.8	77.6	65.7	54.6	46.7	40.4	37.2	36.4
150°	105.3	100.5	93.4	82.3	69.6	57.8	48.3	41.2	37.2	35.6	34.8
152.5°	79.9	78.4	73.6	65.7	57.0	49.1	42.7	38.8	36.4	35.6	34.8
155°	68.1	67.3	62.5	56.2	49.1	43.5	39.6	37.2	35.6	35.6	34.8
157.5°	63.3	61.7	57.8	51.4	45.1	41.9	38.0	36.4	35.6	35.6	35.6
160°	53.0	51.4	48.3	45.9	41.9	39.6	37.2	36.4	35.6	35.6	34.8
162.5°	47.5	45.9	44.3	41.9	41.2	40.4	39.6	38.0	37.2	36.4	36.4
165°	45.1	44.3	41.9	41.2	41.2	41.9	41.9	40.4	38.8	37.2	37.2
167.5°	44.3	43.5	41.9	41.2	42.7	43.5	44.3	42.7	41.2	38.8	38.0
170°	44.3	44.3	43.5	42.7	43.5	44.3	45.1	45.1	44.3	42.7	42.7
172.5°	44.3	45.1	44.3	44.3	44.3	44.3	44.3	45.9	45.9	45.1	45.1
175°	47.5	47.5	45.1	44.3	45.1	45.9	46.7	45.9	45.9	46.7	46.7
177.5°	43.5	45.1	48.3	49.1	50.7	50.7	49.1	48.3	45.9	45.1	45.1
180°	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6

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

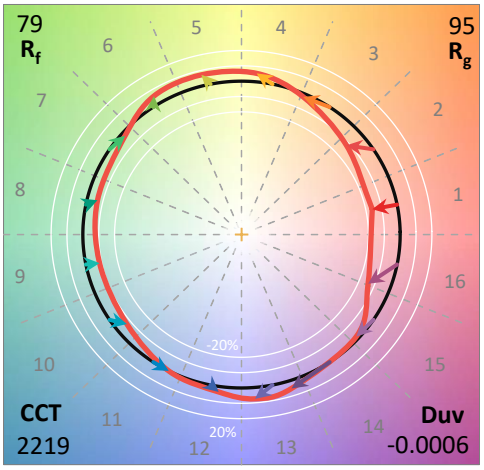
Test Information

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

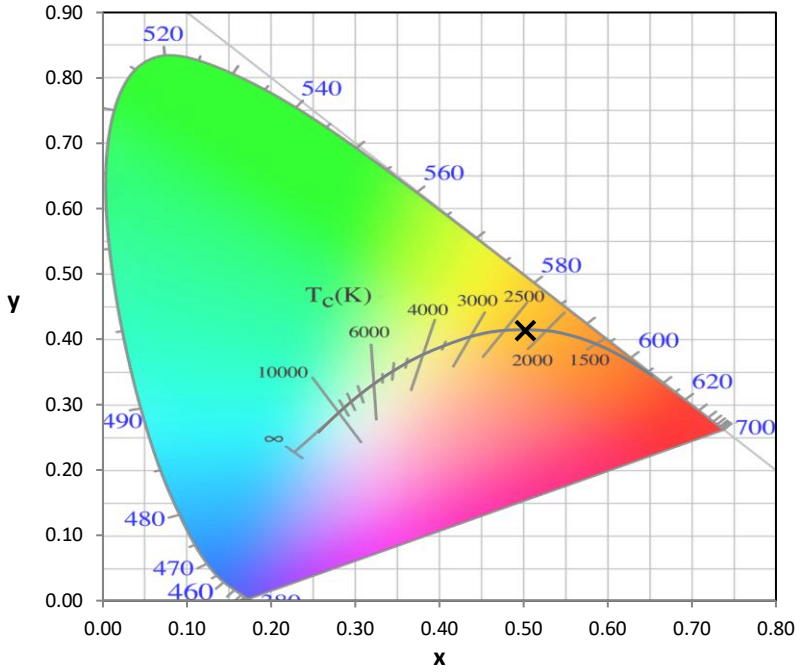
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

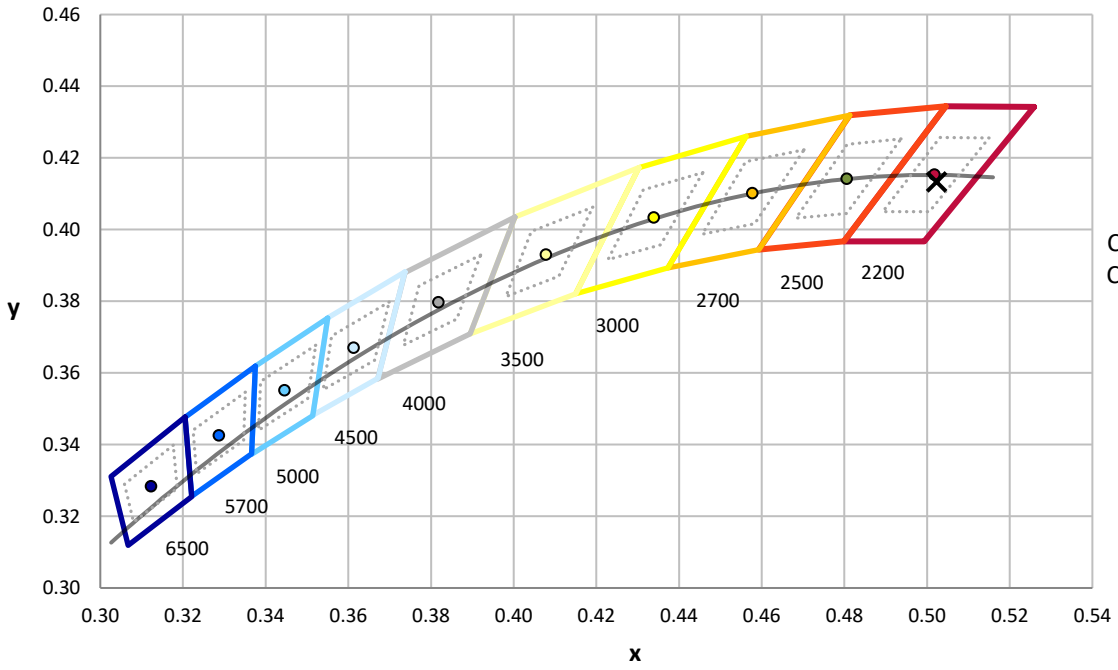
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

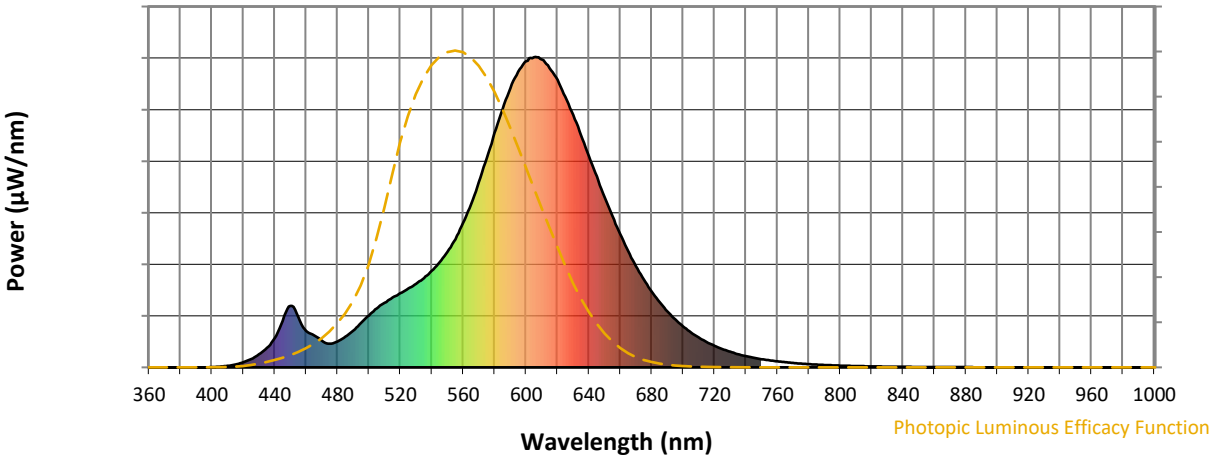


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

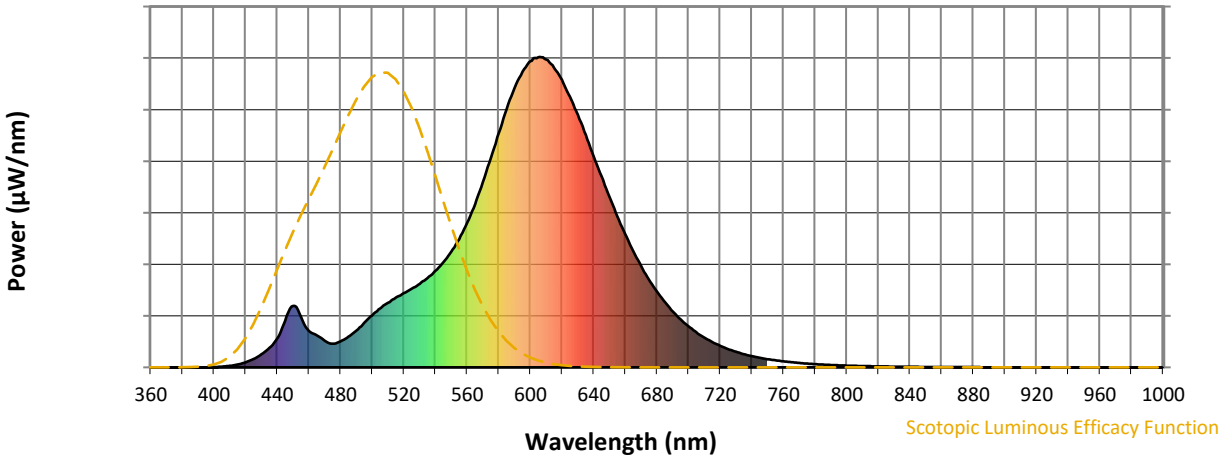


Photopic Lumens: NR

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

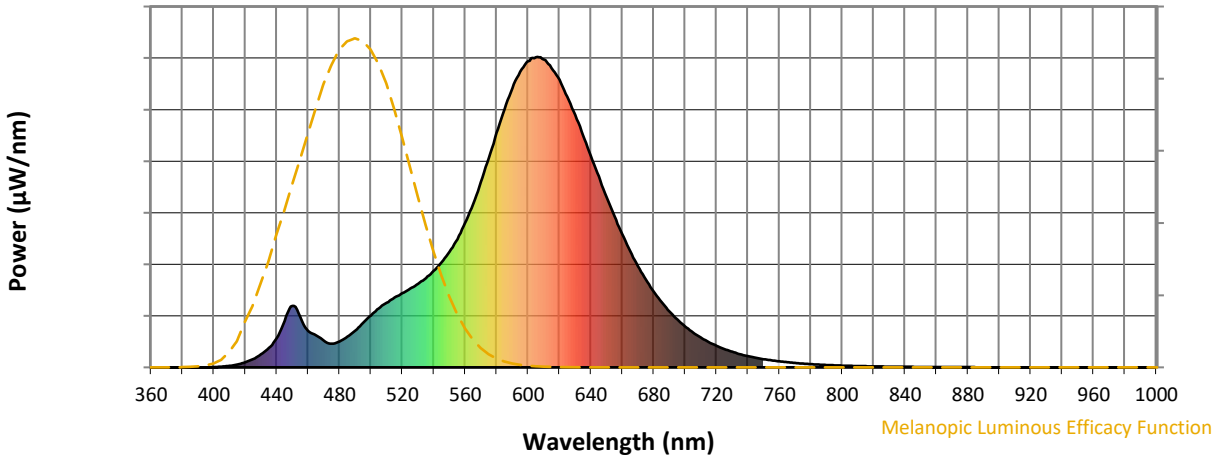


Scotopic Lumens: NR **S/P: 0.94**

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			

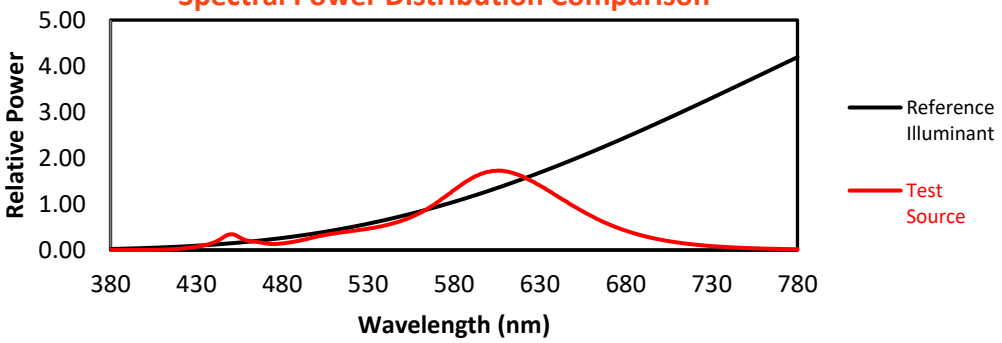
REPORT NUMBER: SP1-2501-332-2

TM-30-18

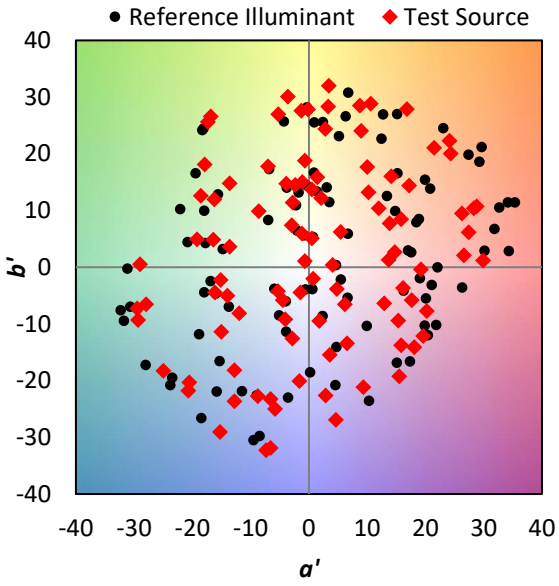
Summary

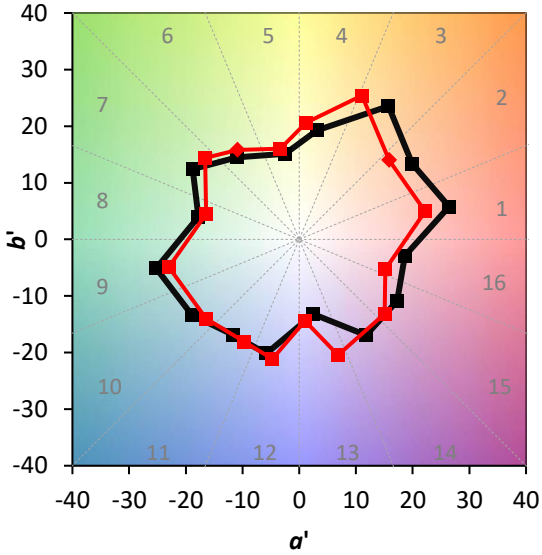
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

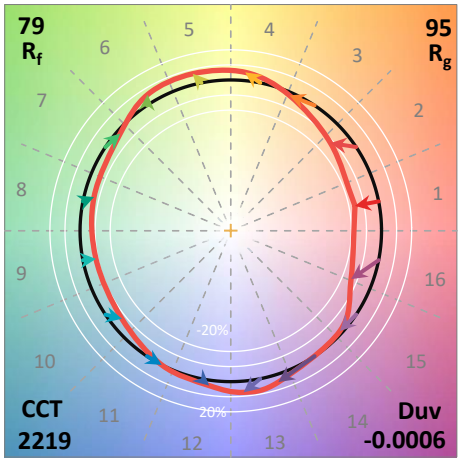
Spectral Power Distribution Comparison

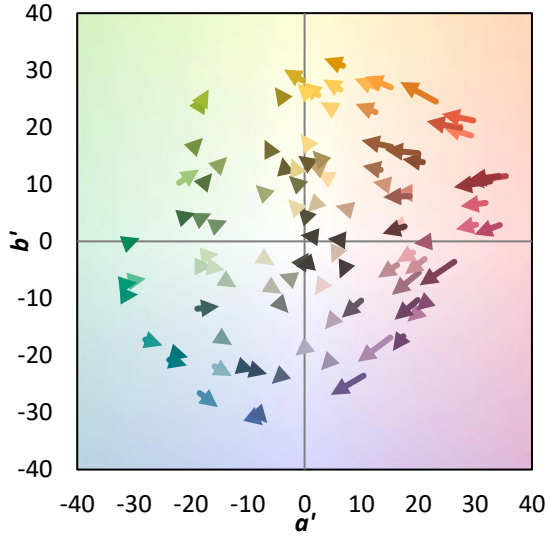


Color Vector Graphics







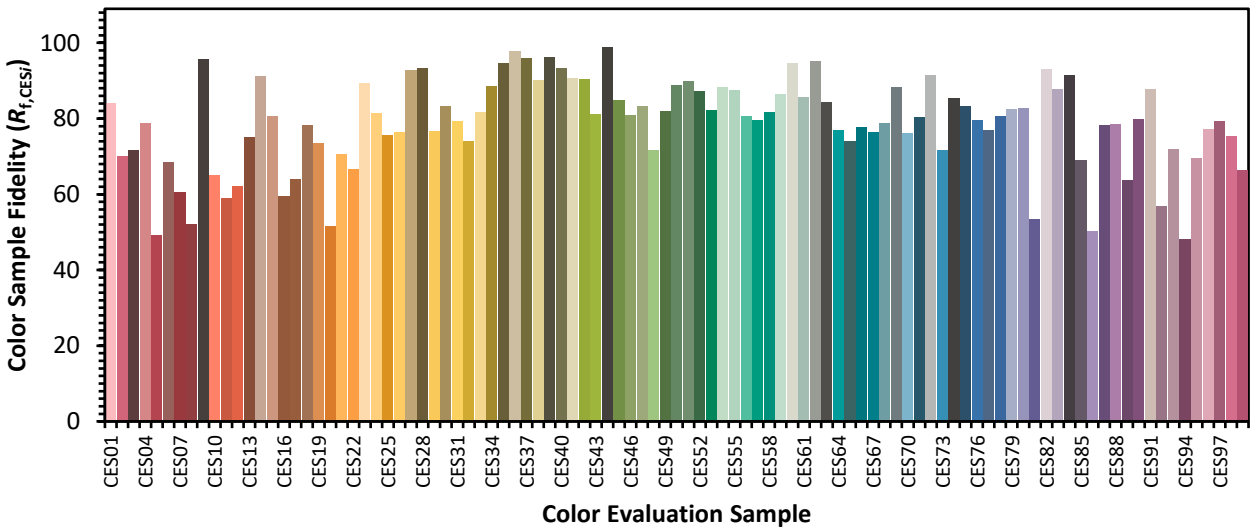


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

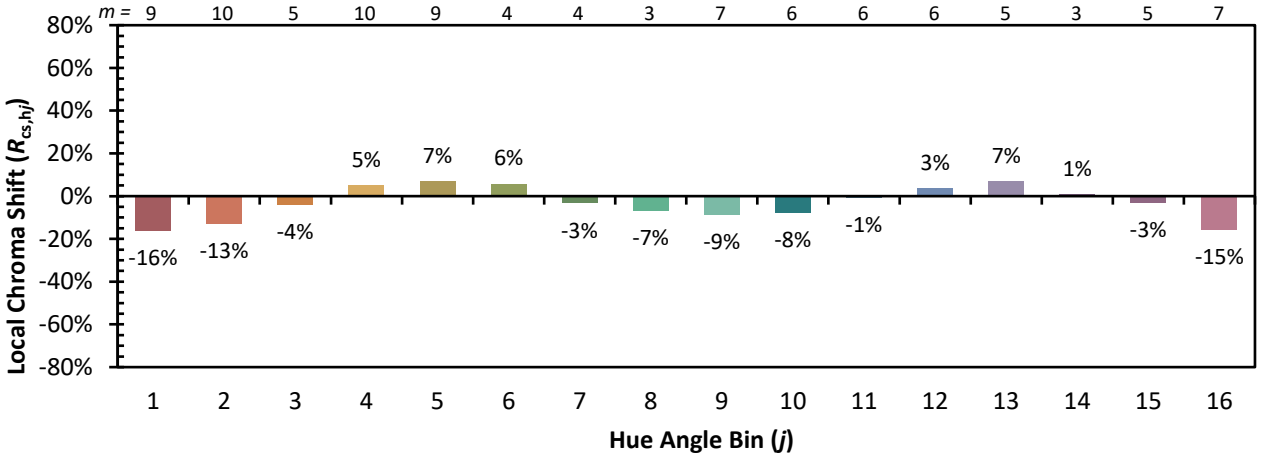
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

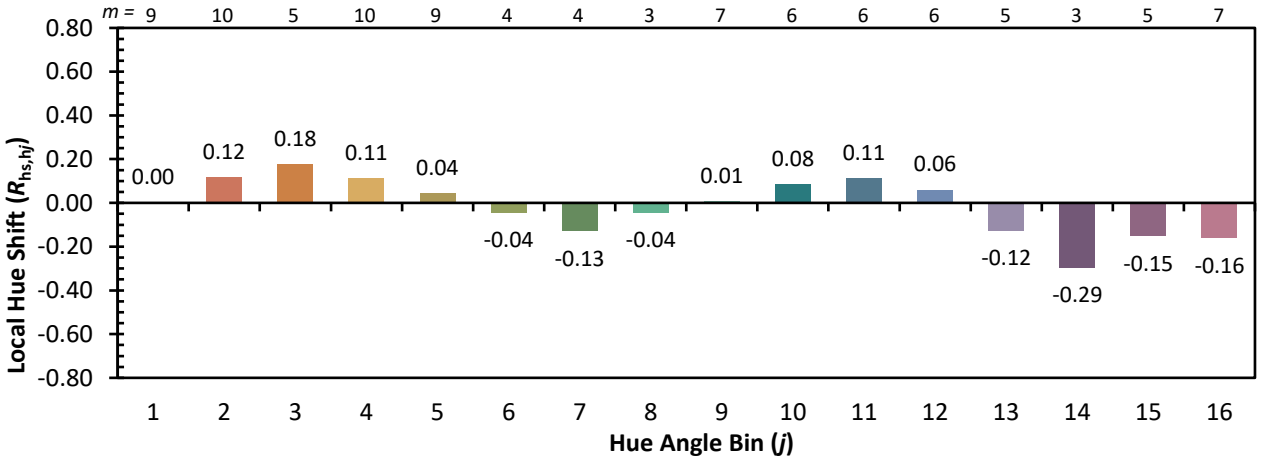


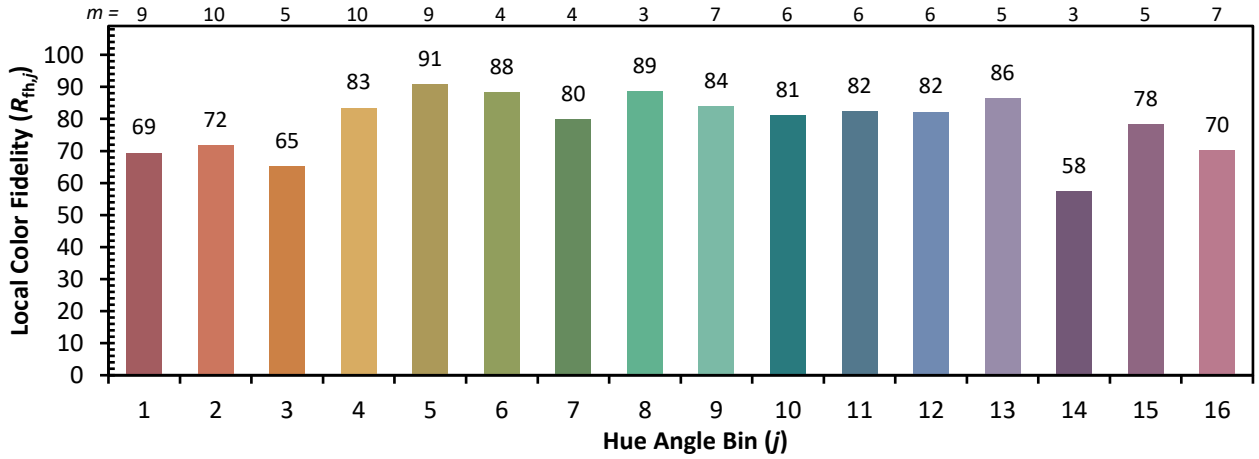
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Color Rendition by Hue-Angle Bin



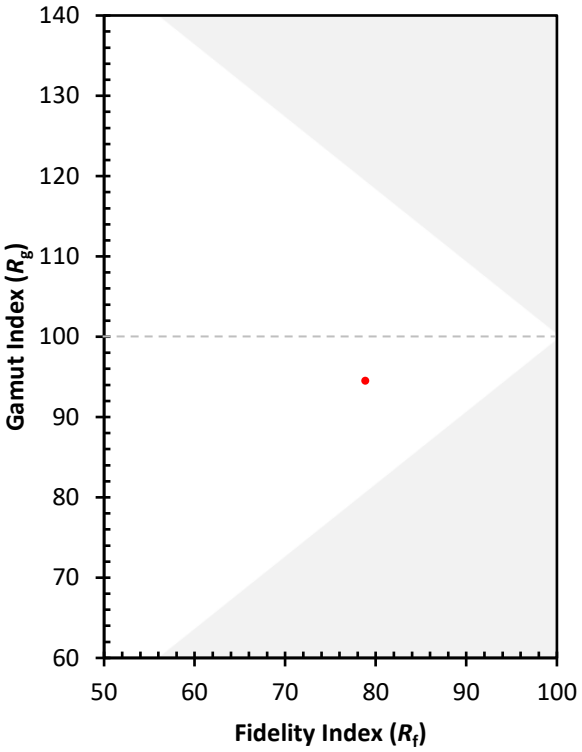


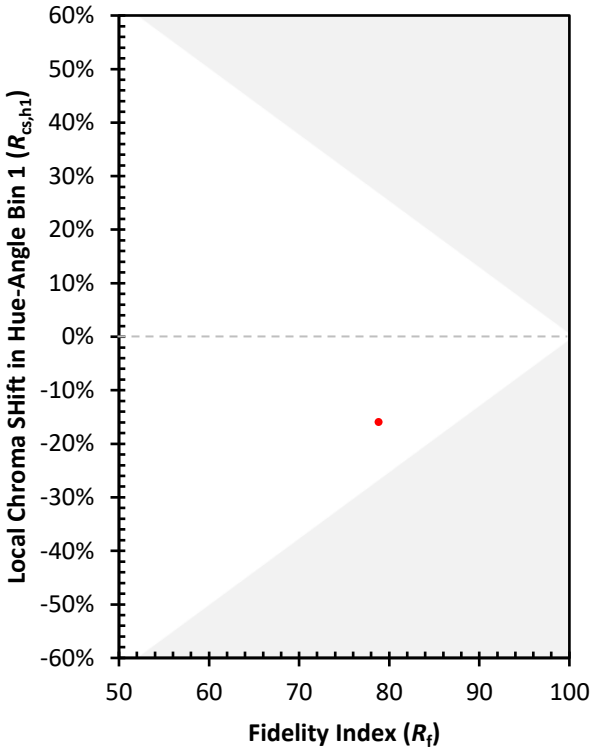


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Measure Comparisons





(END OF REPORT)