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: P1046544

Luminaire Tested: **FFX-CLB-80-722-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:	P1046544
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-T3-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9379.2 lumens
Efficiency:	N/A
Efficacy:	114.7 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):	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

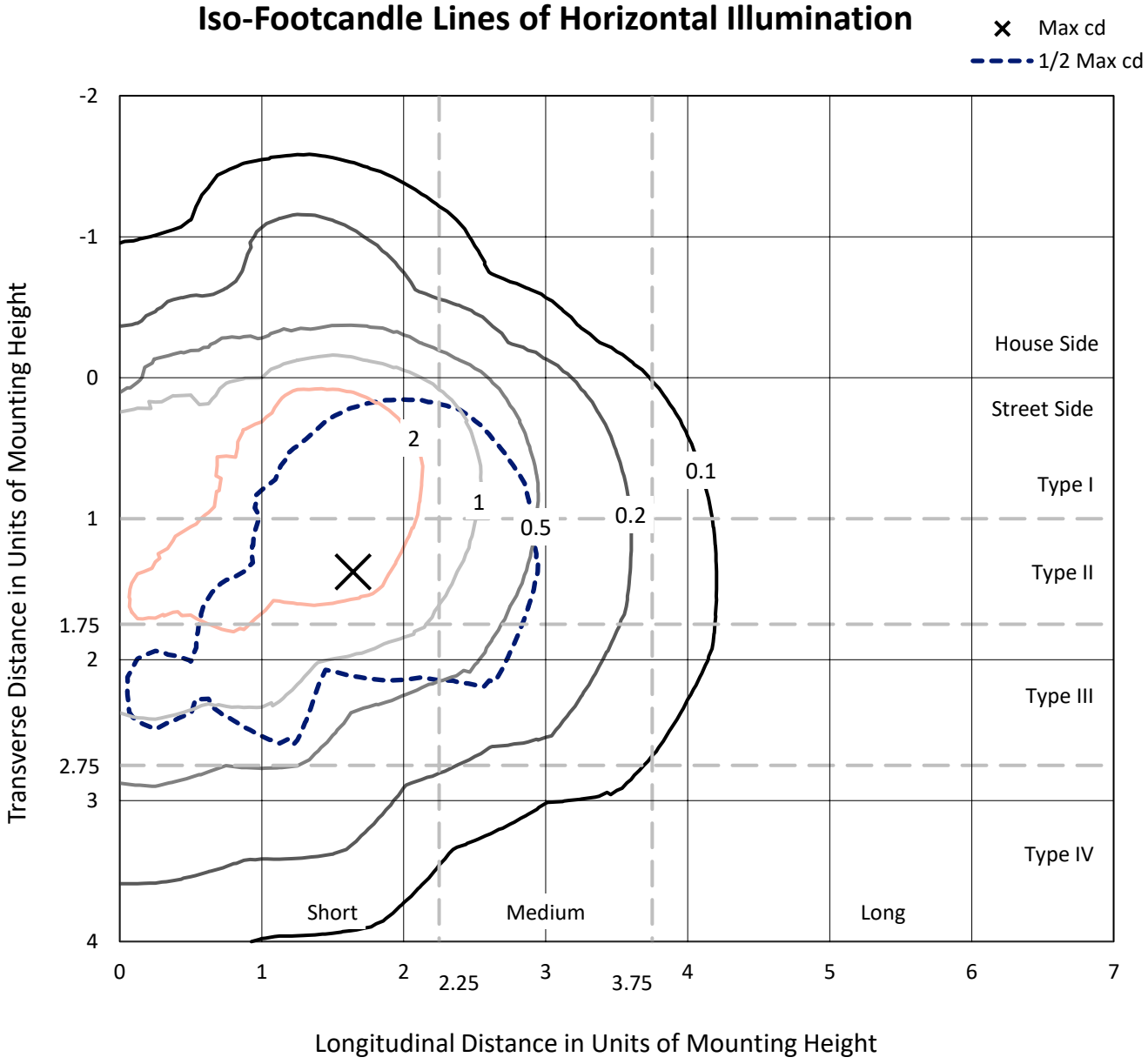


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Iso-Footcandle Lines of Horizontal Illumination



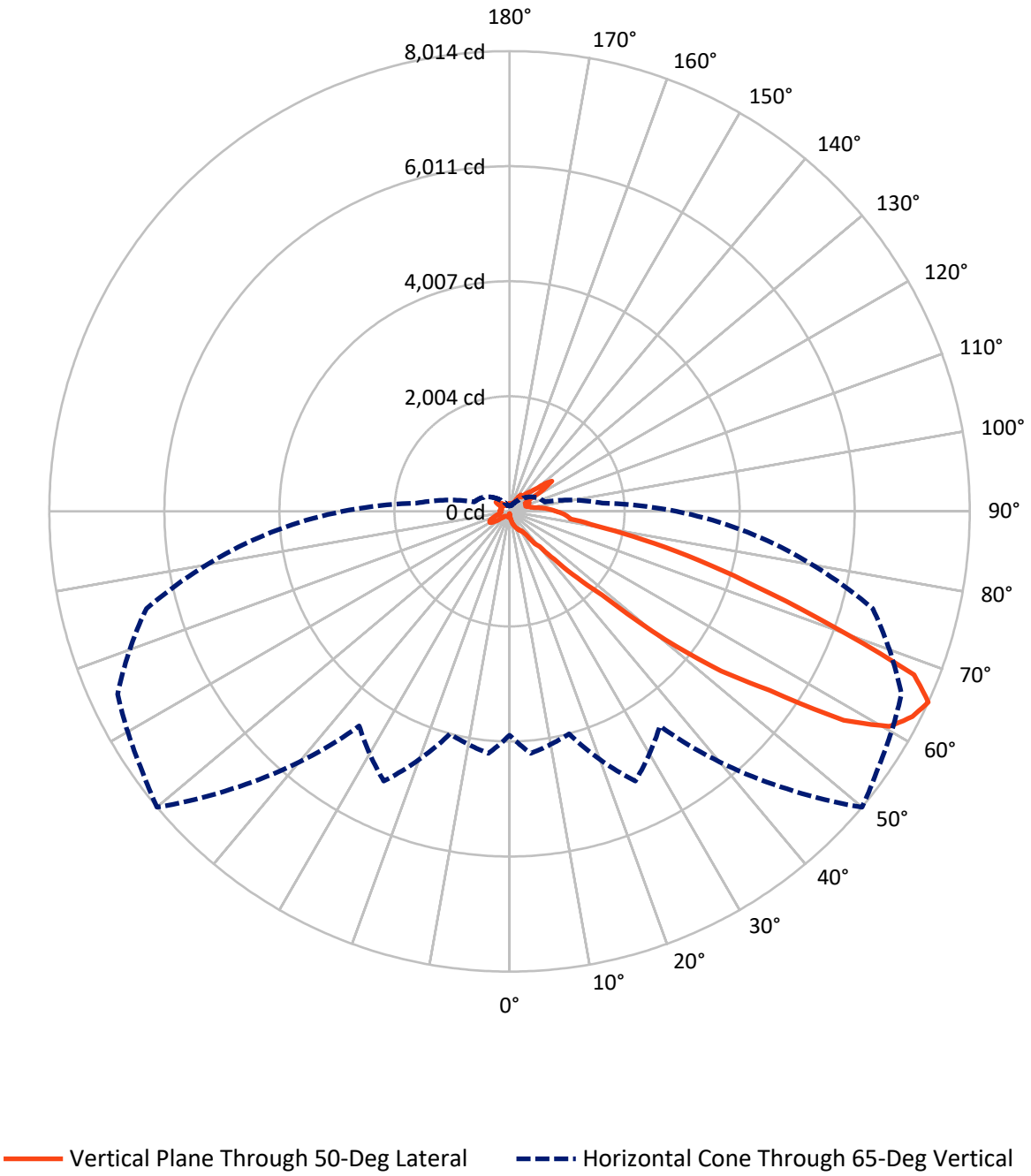
Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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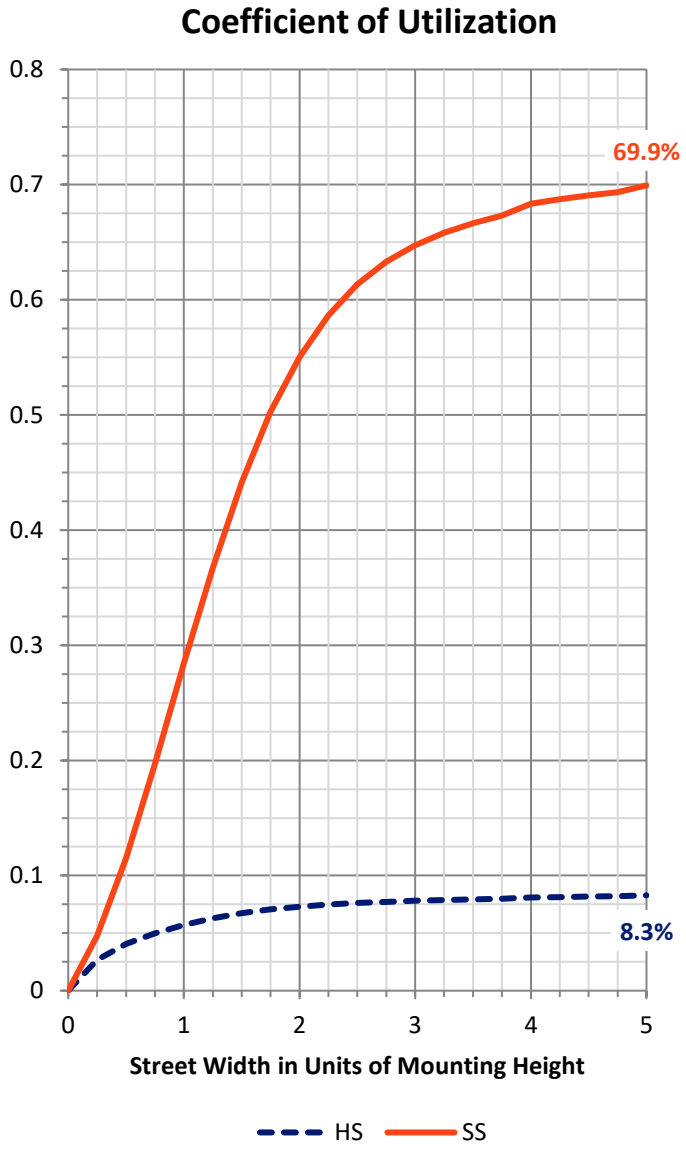
REPORT NUMBER: P1046544
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.7	541.6	1364.3
	% Fixture	8.8	5.8	14.5
Street Side	Lumens	6784.6	1230.3	8014.9
	% Fixture	72.3	13.1	85.5
Total	Lumens	7607.4	1771.9	9379.2
	% Fixture	81.1	18.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	48.9	0.5
20°-30°	104.5	1.1
30°-40°	208.7	2.2
40°-50°	546.8	5.8
50°-60°	1811.4	19.3
60°-70°	2856.7	30.5
70°-80°	1491.7	15.9
80°-90°	529.7	5.6
90°-100°	341.8	3.6
100°-110°	230.6	2.5
110°-120°	263.1	2.8
120°-130°	436.0	4.6
130°-140°	249.0	2.7
140°-150°	136.4	1.5
150°-160°	66.8	0.7
160°-170°	35.3	0.4
170°-180°	12.7	0.1
0°-90°	7607.4	81.1
0°-180°	9379.2	100.0



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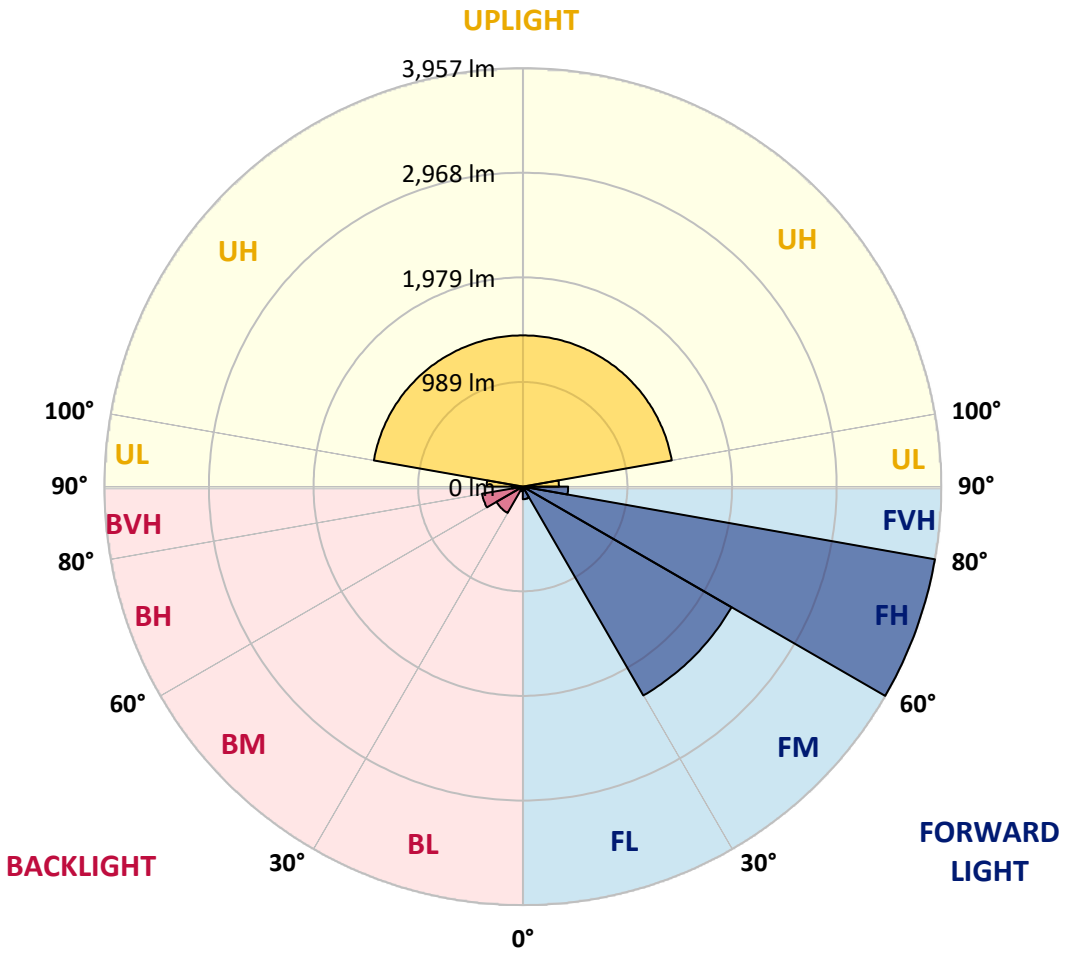
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	119.3	1.3			
FM	(30°-60°)	2279.3	24.3			
FH	(60°-80°)	3957.2	42.2			G2/5000
FVH	(80°-90°)	428.9	4.6			G3/500
BL	(0°-30°)	43.1	0.5	B0/110		
BM	(30°-60°)	287.6	3.1	B1/1000		
BH	(60°-80°)	391.2	4.2	B1/500		G1/500
BVH	(80°-90°)	100.8	1.1			G2/225
UL	(90°-100°)	341.8	3.6		U3/500	
UH	(100°-180°)	1430.0	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°	52.4	52.4	52.4	52.4	52.4	52.4	*52.4*	52.4	52.4	52.4	52.4
2.5°	63.6	63.0	64.3	66.3	65.6	63.6	*62.3*	61.6	59.7	59.0	57.0
5°	94.1	93.5	92.1	93.5	94.1	91.5	*90.1*	86.8	83.5	77.6	74.2
7.5°	131.9	132.6	133.9	130.6	129.3	123.3	*122.0*	118.7	113.3	106.1	104.1
10°	179.0	179.6	182.9	177.6	169.0	161.7	*160.4*	161.7	167.7	149.1	137.9
12.5°	225.4	223.4	233.3	230.7	219.4	208.8	*203.5*	204.2	201.5	187.6	169.0
15°	268.5	268.5	275.7	278.4	266.5	241.9	*234.0*	232.0	230.7	216.1	190.2
17.5°	295.6	297.0	297.6	297.6	293.6	273.1	*263.8*	259.8	247.9	234.7	210.8
20°	318.2	318.8	312.9	313.5	319.5	301.6	*292.3*	284.4	271.8	257.9	228.0
22.5°	349.3	348.0	338.7	334.7	348.0	332.8	*322.8*	314.2	298.9	283.0	255.9
25°	383.8	382.5	373.2	363.2	372.5	358.6	*348.0*	340.0	326.1	315.5	259.8
27.5°	416.9	415.6	399.7	398.4	390.4	383.8	*372.5*	370.5	359.9	328.8	257.9
30°	441.5	440.1	422.9	423.6	403.0	408.3	*391.7*	390.4	377.8	336.7	262.5
32.5°	450.7	452.1	444.8	441.5	413.6	434.8	*419.6*	414.3	411.0	357.9	285.7
35°	484.5	495.2	506.4	510.4	485.2	525.0	*493.8*	489.9	497.8	435.5	356.6
37.5°	745.1	739.7	698.0	639.0	625.7	713.2	*708.6*	711.9	706.6	619.8	472.0
40°	745.7	749.0	722.5	686.7	645.0	734.4	*802.7*	742.4	830.6	675.5	517.7
42.5°	783.5	772.9	835.9	849.8	803.4	936.6	*1138.1*	910.8	1101.0	823.3	704.6
45°	927.3	927.3	938.6	945.2	928.7	1263.4	*1653.2*	1270.7	1471.5	1030.1	845.8
47.5°	1075.8	1063.2	1127.5	1235.6	1299.9	1626.0	*2182.1*	1679.0	1995.9	1384.7	1173.9
50°	1500.0	1517.9	1641.2	1767.2	1863.3	2420.8	*3513.1*	2876.8	3259.9	2129.1	1792.4
52.5°	1829.5	1934.2	2029.0	2382.3	2425.4	3307.7	*4618.1*	3859.8	4176.7	2991.5	2219.2
55°	2169.5	2377.0	2433.4	3057.1	3106.2	4250.2	*5497.7*	4889.2	4978.7	3944.0	2634.9
57.5°	2792.6	3082.3	3101.5	3767.0	3765.0	5475.9	*6863.9*	6366.8	6299.1	5022.5	3271.9
60°	3328.9	3659.0	3541.0	4463.0	4256.2	6379.3	*7604.3*	7103.2	6955.4	5887.5	3720.0
62.5°	3654.3	3976.5	3831.3	4921.7	4569.7	6811.5	*7872.1*	7579.8	7327.9	6411.2	4085.2
65°	*3896.9*	*4229.0*	*4011.6*	*5182.2*	*4563.8*	*6832.7*	*8014.0*	*7825.0*	*7530.1*	*6547.7*	*4165.4*
67.5°	3865.1	4189.3	3928.8	5078.8	4244.9	6222.2	*7597.0*	7361.7	6997.1	6020.7	3895.6
70°	3351.4	3547.0	3260.6	4325.8	3393.8	4813.0	*5918.0*	5782.1	5431.5	4608.9	3013.4
72.5°	2821.1	2869.5	2601.1	3385.9	2646.1	3506.5	*4496.8*	4351.7	4121.7	3420.3	2277.6
75°	2178.8	2178.8	2025.0	2538.7	1966.0	2488.4	*3403.8*	3366.7	3224.8	2566.6	1729.4
77.5°	1471.5	1394.7	1371.5	1714.8	1358.2	1641.9	*2369.7*	2457.2	2420.1	1837.4	1260.8
80°	857.7	876.3	843.8	1058.6	893.5	1073.8	*1520.6*	1635.9	1632.6	1220.3	827.2
82.5°	668.8	682.1	648.3	762.3	682.1	845.1	*1065.9*	1058.6	1083.8	884.3	622.4
85°	658.9	668.8	633.7	704.6	654.9	802.7	*1001.6*	999.6	994.3	818.6	584.6
87.5°	599.2	612.5	582.0	639.0	593.9	733.1	*910.1*	920.7	905.5	767.6	562.1
90°	501.1	515.0	501.8	568.1	521.7	632.4	*791.5*	799.4	786.1	684.1	507.1
92.5°	450.7	460.0	444.1	501.8	452.7	555.5	*699.3*	704.0	683.4	601.9	438.8
95°	415.6	424.9	405.0	447.4	399.7	489.9	*595.2*	610.5	580.0	507.7	373.9
97.5°	345.3	339.4	331.4	367.9	330.8	385.8	*455.4*	466.7	447.4	393.7	297.6
100°	298.9	300.9	297.6	324.1	290.3	331.4	*385.8*	390.4	382.5	343.4	269.1
102.5°	289.7	290.3	296.3	314.2	275.1	304.9	*351.3*	354.0	352.0	314.9	248.6
105°	287.0	286.4	289.7	308.9	268.5	279.1	*323.5*	324.8	318.2	293.0	232.7
107.5°	271.1	273.1	272.4	289.7	263.8	265.1	*293.6*	293.0	291.7	268.5	220.1
110°	310.9	307.6	293.6	294.3	269.1	275.7	*304.3*	300.9	294.3	280.4	240.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	442.1	432.8	416.9	364.6	338.1	356.6	*375.8*	379.2	371.9	359.3	303.6
115°	490.5	489.2	471.3	436.8	349.3	356.0	*368.5*	373.9	382.5	357.9	310.9
117.5°	402.4	424.2	396.4	401.0	351.3	308.9	*306.9*	296.3	300.9	298.3	287.7
120°	507.7	511.7	455.4	444.8	410.3	424.2	*424.9*	426.2	412.3	345.3	304.3
122.5°	713.9	713.9	729.8	759.0	741.1	715.9	*701.3*	686.7	667.5	603.9	516.4
125°	905.5	904.1	895.5	910.1	892.2	902.1	*906.8*	910.8	890.2	812.7	693.3
127.5°	729.8	748.4	779.5	858.4	808.7	794.8	*781.5*	790.8	775.5	761.0	686.7
130°	565.4	567.4	618.4	668.8	664.8	620.4	*605.2*	578.7	584.6	582.7	538.2
132.5°	483.2	485.9	515.7	544.2	568.1	535.6	*505.8*	491.8	496.5	493.2	464.7
135°	422.2	422.2	411.6	408.3	428.2	458.0	*454.7*	436.8	428.2	418.3	375.8
137.5°	365.2	363.9	344.7	334.1	350.0	388.4	*391.1*	391.1	382.5	358.6	328.1
140°	300.9	298.9	289.0	291.0	295.0	320.8	*322.8*	328.8	327.5	308.2	271.1
142.5°	228.0	228.7	243.3	259.8	269.1	324.8	*316.2*	309.6	330.8	329.4	236.6
145°	304.3	297.6	297.6	290.3	312.2	367.2	*350.0*	355.3	383.1	357.3	255.9
147.5°	279.1	282.4	283.0	281.7	309.6	312.9	*300.3*	300.9	310.9	310.9	261.8
150°	216.1	210.8	212.1	214.8	243.9	241.9	*230.7*	230.0	238.0	236.0	214.1
152.5°	171.0	170.4	169.7	172.3	196.2	186.3	*181.6*	179.6	178.3	176.3	171.0
155°	161.1	160.4	159.1	162.4	176.3	171.7	*169.0*	169.0	165.7	162.4	159.1
157.5°	143.2	142.5	143.2	149.8	157.8	152.5	*151.8*	151.1	149.8	145.8	144.5
160°	133.9	133.2	134.6	139.9	143.2	138.5	*137.2*	137.9	137.2	135.2	137.9
162.5°	126.6	126.6	126.6	129.9	131.2	127.9	*127.3*	127.9	128.6	128.6	131.9
165°	122.6	122.6	123.3	125.3	125.3	124.0	*122.6*	122.6	125.9	127.3	129.9
167.5°	125.3	125.3	125.9	126.6	126.6	125.3	*125.3*	125.9	127.9	129.3	129.3
170°	129.3	129.3	129.3	129.9	129.3	127.3	*127.3*	127.3	127.9	127.9	128.6
172.5°	133.9	133.9	133.9	133.2	131.9	131.2	*129.9*	129.9	130.6	129.9	130.6
175°	140.5	139.9	139.9	139.2	138.5	137.9	*137.2*	136.5	136.5	134.6	134.6
177.5°	143.8	143.2	143.8	143.8	143.2	141.9	*140.5*	140.5	139.9	138.5	137.9
180°	138.5	138.5	138.5	138.5	138.5	138.5	*138.5*	138.5	138.5	138.5	138.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
2.5°	55.7	53.7	48.4	43.7	40.4	39.1	39.1	37.1	34.5	32.5	31.8
5°	73.6	72.3	70.3	67.6	61.6	53.7	47.1	44.4	43.1	42.4	41.8
7.5°	104.1	105.4	108.0	107.4	96.1	74.9	62.3	61.6	68.9	76.9	79.5
10°	134.6	133.2	141.9	149.1	121.3	84.8	64.3	62.3	72.3	86.2	88.2
12.5°	161.1	154.4	149.8	141.9	116.0	84.8	68.9	65.0	69.6	80.2	80.2
15°	181.0	172.3	153.1	134.6	111.4	87.5	71.6	68.9	68.9	65.6	66.3
17.5°	196.2	180.3	152.5	128.6	103.4	83.5	70.9	63.6	59.7	54.4	53.0
20°	214.1	202.8	165.7	132.6	102.1	80.9	68.9	60.3	55.7	53.7	53.0
22.5°	233.3	210.1	174.3	133.9	102.1	82.2	68.3	59.0	55.0	53.7	53.7
25°	235.3	215.4	179.0	139.2	105.4	84.8	69.6	59.7	55.7	54.4	53.7
27.5°	232.7	218.7	186.9	145.2	108.7	87.5	72.3	61.0	55.7	53.7	53.0
30°	242.6	231.3	196.2	149.1	112.0	90.8	74.9	63.6	57.0	53.0	52.4
32.5°	267.8	251.9	208.8	151.8	113.3	91.5	77.6	66.3	58.3	53.7	53.0
35°	334.1	319.5	257.2	161.1	113.3	92.8	79.5	68.3	59.7	54.4	53.7
37.5°	430.2	403.0	316.2	192.2	114.7	95.5	81.5	70.9	61.6	55.7	54.4
40°	456.0	385.1	268.5	172.3	117.3	98.1	84.8	73.6	64.3	57.7	57.0
42.5°	591.9	492.5	331.4	182.3	125.3	100.1	86.8	76.2	66.3	59.7	58.3
45°	633.7	493.2	336.7	210.8	147.2	108.7	90.1	78.2	67.6	61.0	60.3
47.5°	830.6	611.8	343.4	226.0	165.1	125.3	98.1	80.9	68.9	62.3	61.6
50°	1217.7	863.0	426.2	282.4	204.2	153.1	115.3	86.2	70.3	64.3	63.0
52.5°	1519.3	1035.4	462.0	345.3	271.1	202.2	145.2	100.1	74.2	65.6	64.3
55°	1852.0	1272.0	525.0	416.3	328.8	253.2	184.3	120.6	82.2	67.6	66.3
57.5°	2310.1	1518.6	616.5	491.2	399.0	295.6	210.1	141.2	92.8	72.3	69.6
60°	2588.5	1623.3	631.0	531.6	440.8	329.4	221.4	149.8	104.1	78.9	74.9
62.5°	2854.9	1695.6	635.0	547.5	450.7	336.1	222.7	145.8	108.0	88.2	82.9
65°	*2909.3*	*1624.0*	*636.3*	*550.8*	*438.8*	*318.8*	*215.4*	*141.9*	*103.4*	*96.1*	*96.8*
67.5°	2725.7	1442.4	589.9	527.0	407.0	284.4	193.6	135.9	102.1	94.8	96.8
70°	2143.0	1130.2	538.9	488.5	345.3	241.9	172.3	127.9	102.1	91.5	89.5
72.5°	1663.8	965.8	552.2	464.0	295.6	216.1	155.8	119.3	98.8	90.8	89.5
75°	1291.2	806.0	544.2	408.3	241.3	185.6	139.9	109.4	94.1	89.5	88.8
77.5°	943.9	635.7	450.1	312.9	200.2	157.8	123.3	102.7	91.5	87.5	86.8
80°	607.2	444.8	313.5	249.9	175.7	143.8	115.3	98.1	90.1	87.5	86.8
82.5°	511.7	403.7	282.4	236.6	169.7	146.5	120.6	102.7	94.8	92.1	91.5
85°	492.5	415.6	290.3	246.6	162.4	139.9	118.0	102.7	95.5	92.1	91.5
87.5°	468.0	375.8	286.4	226.7	156.4	134.6	116.0	105.4	98.1	96.1	95.5
90°	423.6	331.4	262.5	210.8	165.1	143.2	127.9	116.7	109.4	104.7	103.4
92.5°	357.3	266.5	225.4	208.1	181.0	162.4	147.2	137.2	129.3	124.6	122.6
95°	300.9	232.7	196.2	184.3	159.7	145.8	131.2	124.0	118.0	114.0	114.0
97.5°	245.3	199.5	182.3	173.0	153.1	137.9	125.9	118.7	116.7	115.3	114.7
100°	230.7	195.5	183.6	175.7	159.7	145.8	136.5	129.9	129.3	128.6	128.6
102.5°	214.1	184.9	171.7	163.7	147.8	135.9	129.3	124.0	122.0	120.0	118.0
105°	202.2	175.0	165.1	154.4	141.9	129.9	123.3	115.3	114.0	113.3	113.3
107.5°	196.2	173.7	168.4	151.8	139.9	134.6	126.6	116.7	114.7	112.0	112.0
110°	216.8	192.9	177.6	157.1	144.5	139.9	137.9	129.3	122.6	114.7	114.0

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

Scaled Data Report

REPORT NUMBER: P1046544
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	268.5	236.0	218.1	187.6	161.7	150.5	141.9	132.6	128.6	123.3	121.3
115°	289.0	255.9	233.3	202.8	173.0	153.1	140.5	139.2	135.2	131.9	135.2
117.5°	296.3	232.7	192.2	184.9	162.4	146.5	140.5	138.5	139.9	139.9	133.9
120°	319.5	251.2	236.0	226.7	184.3	158.4	145.2	151.8	150.5	142.5	142.5
122.5°	476.6	425.6	375.2	312.9	259.8	229.3	184.3	154.4	148.5	143.2	139.9
125°	627.7	582.0	503.1	420.3	328.8	243.3	182.9	161.7	150.5	143.8	145.2
127.5°	639.7	591.3	501.1	399.7	293.6	227.4	184.3	165.7	153.1	145.8	144.5
130°	499.8	465.3	397.7	323.5	249.2	203.5	170.4	151.8	140.5	133.9	132.6
132.5°	442.1	413.0	342.7	277.7	227.4	188.9	160.4	139.9	131.9	127.3	126.6
135°	353.3	328.8	281.7	246.6	211.5	179.6	151.1	131.9	124.6	124.0	122.6
137.5°	309.6	289.7	253.2	224.0	194.9	164.4	140.5	124.6	121.3	122.0	120.0
140°	252.5	243.9	223.4	198.2	167.0	135.2	118.7	113.3	118.7	121.3	121.3
142.5°	216.8	205.5	182.3	153.1	133.2	118.7	116.7	114.7	117.3	118.7	118.7
145°	199.5	186.3	167.0	156.4	147.2	134.6	124.0	114.7	112.0	112.7	112.7
147.5°	225.4	210.1	197.5	177.6	155.1	133.9	118.0	107.4	107.4	110.0	110.7
150°	186.9	173.7	165.1	153.8	136.5	119.3	108.0	102.7	104.7	110.0	110.7
152.5°	156.4	140.5	135.2	128.6	119.3	110.0	104.7	102.1	105.4	109.4	109.4
155°	152.5	138.5	131.9	125.3	116.7	108.7	104.1	102.7	106.1	108.7	109.4
157.5°	143.2	135.2	126.6	121.3	114.7	108.7	105.4	104.1	106.7	108.7	109.4
160°	137.9	133.2	123.3	118.7	112.7	108.7	108.0	108.0	109.4	110.0	110.0
162.5°	131.9	129.3	123.3	119.3	115.3	113.3	114.7	115.3	115.3	114.7	114.7
165°	129.9	128.6	123.3	120.0	118.0	118.7	121.3	122.0	120.0	118.7	118.7
167.5°	129.3	129.3	125.3	122.6	122.0	123.3	125.9	125.9	124.0	121.3	120.6
170°	129.3	129.9	128.6	128.6	127.3	127.9	128.6	128.6	127.3	125.9	125.3
172.5°	131.2	131.2	131.2	131.2	130.6	131.2	131.9	131.9	131.9	131.2	131.2
175°	134.6	134.6	134.6	133.9	133.2	133.2	133.9	134.6	135.2	135.2	135.2
177.5°	137.9	137.2	136.5	137.2	136.5	136.5	137.9	138.5	139.2	139.2	139.2
180°	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5	138.5

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

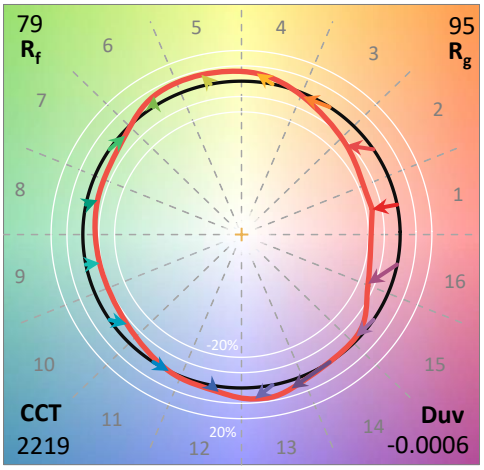
Test Information

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

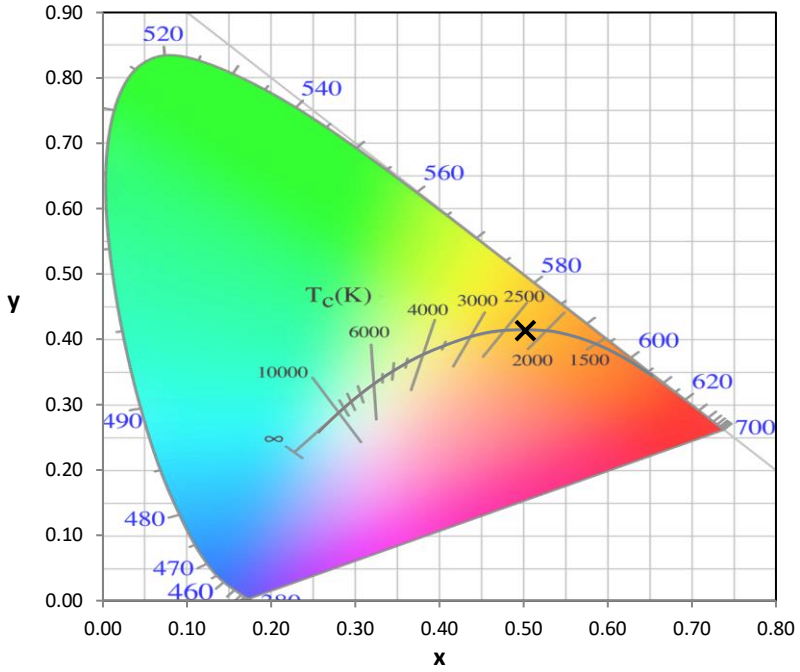
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

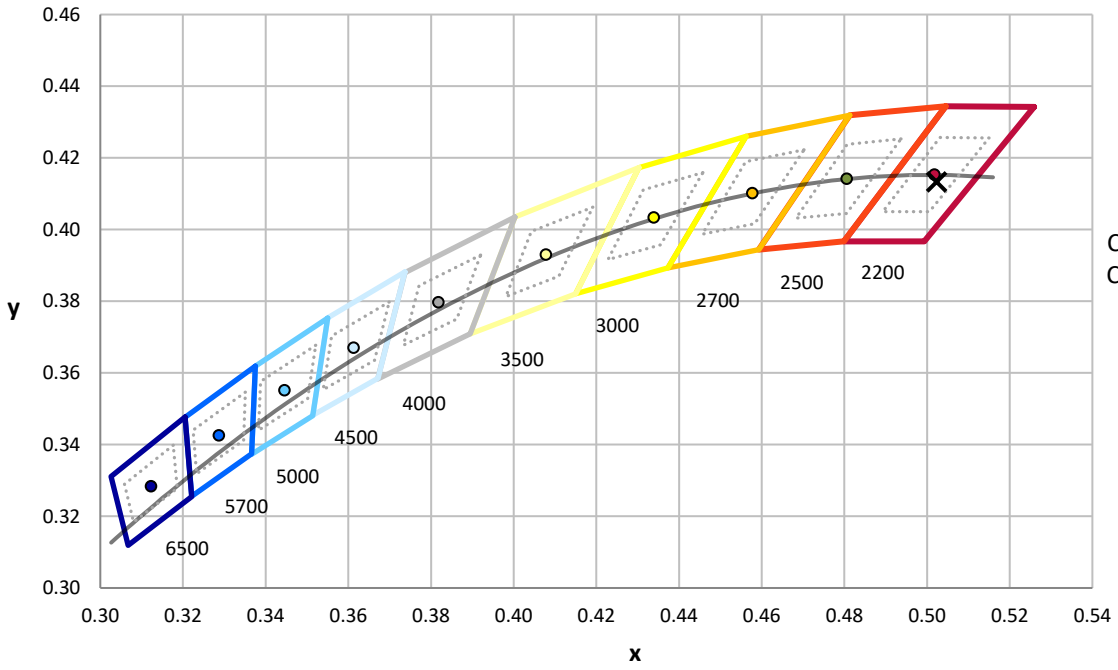
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

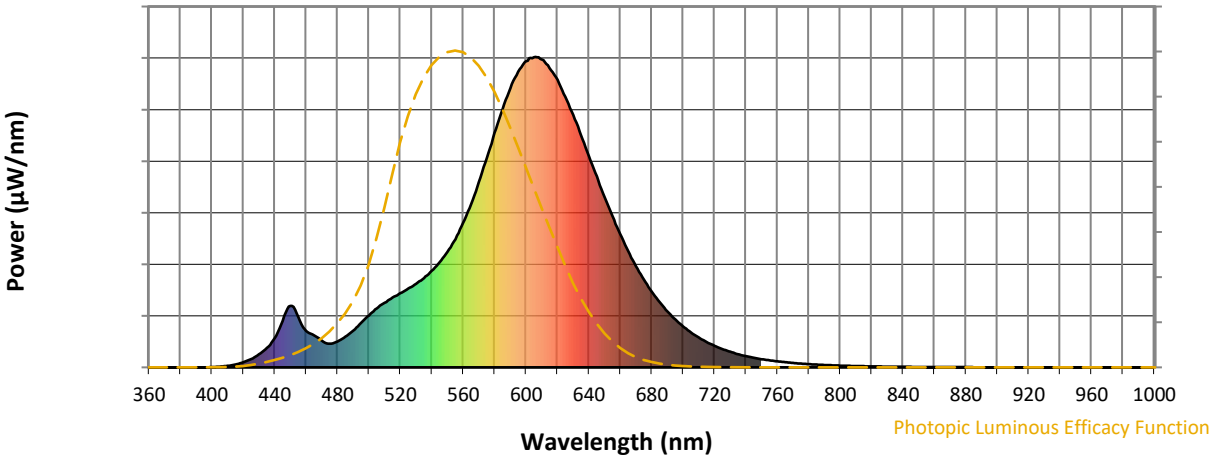


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

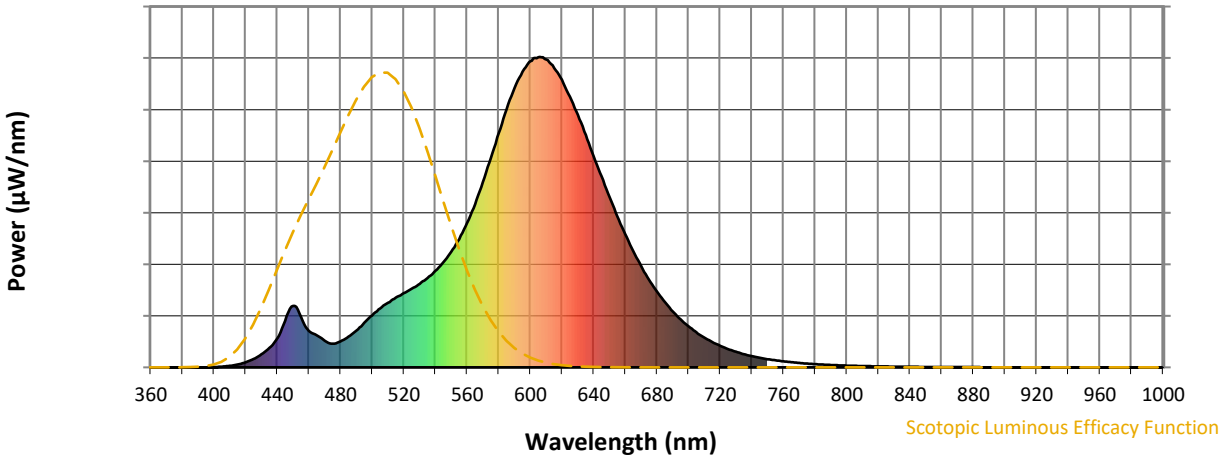


Photopic Lumens: NR

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

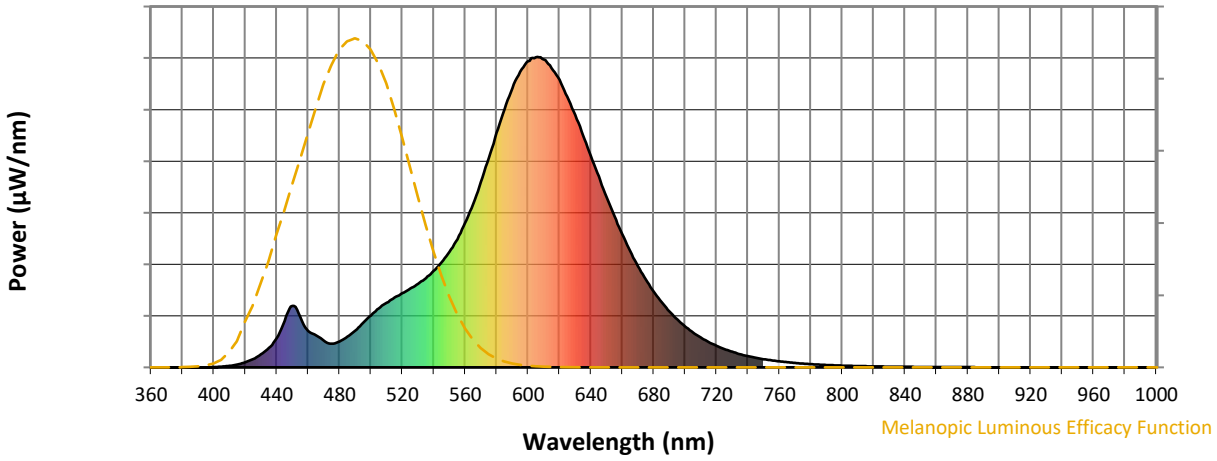


Scotopic Lumens: NR **S/P: 0.94**

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			

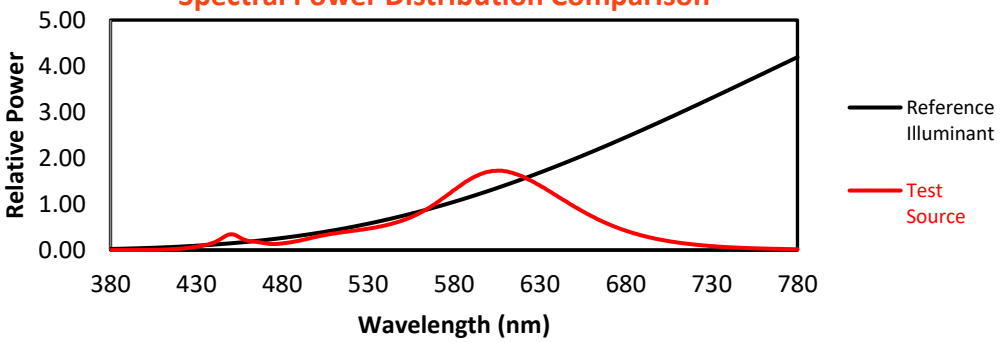
REPORT NUMBER: SP1-2501-332-2

TM-30-18

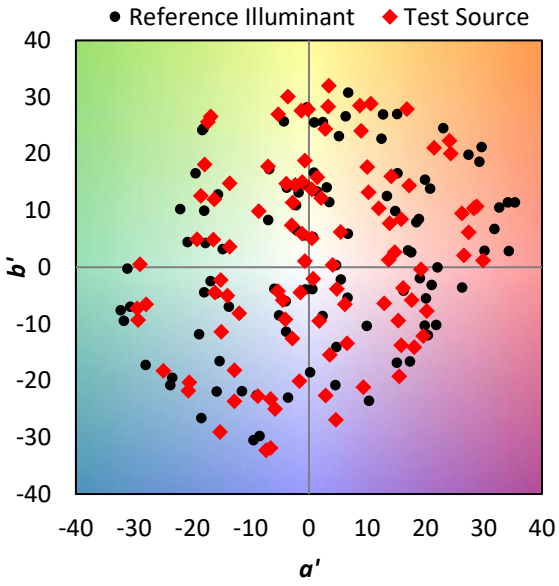
Summary

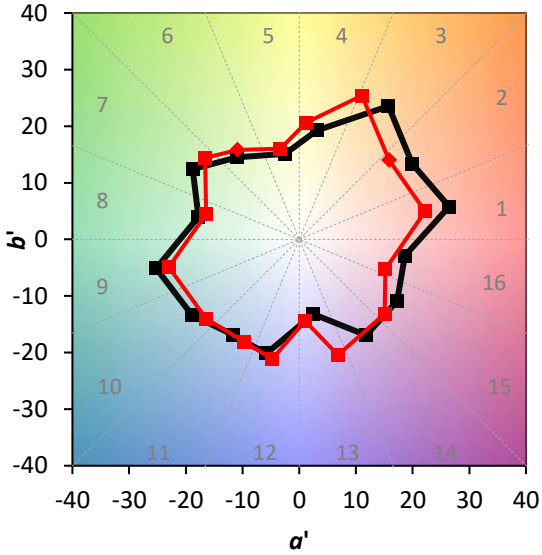
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

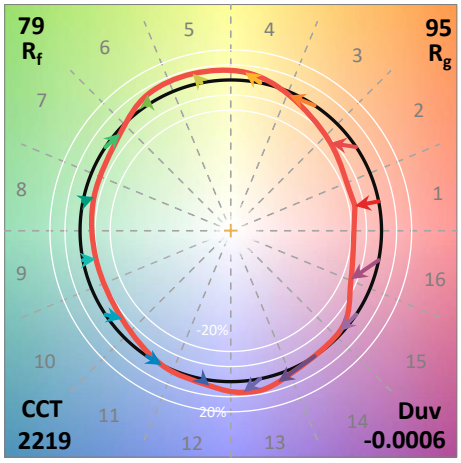
Spectral Power Distribution Comparison

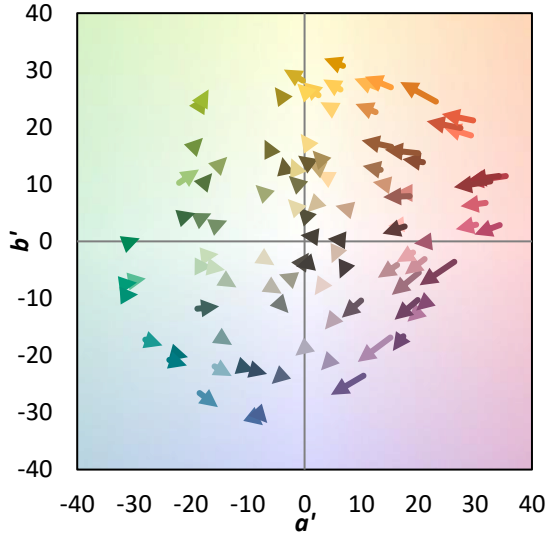


Color Vector Graphics







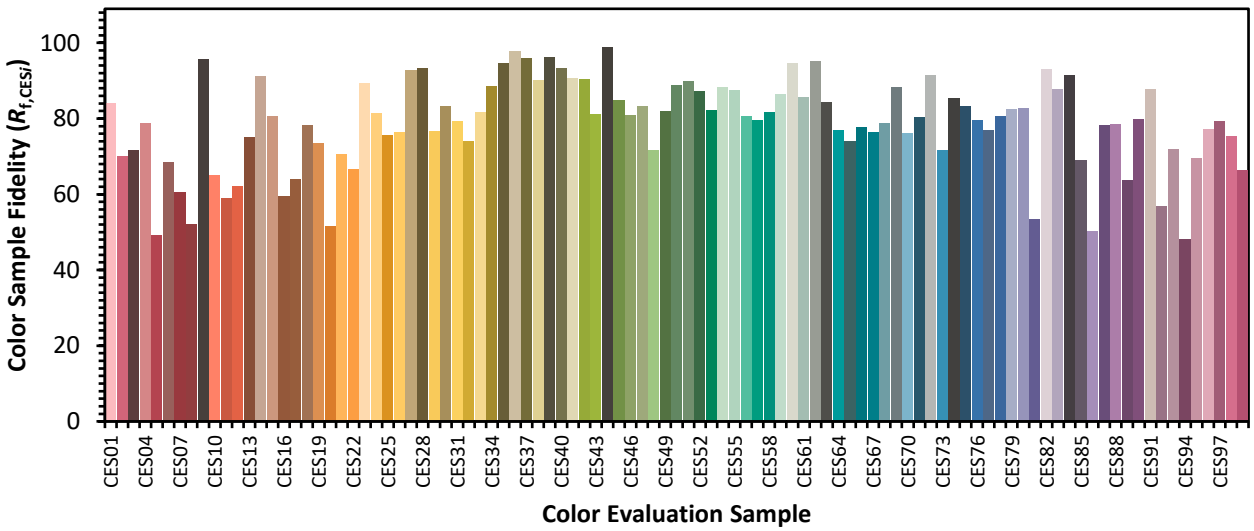


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

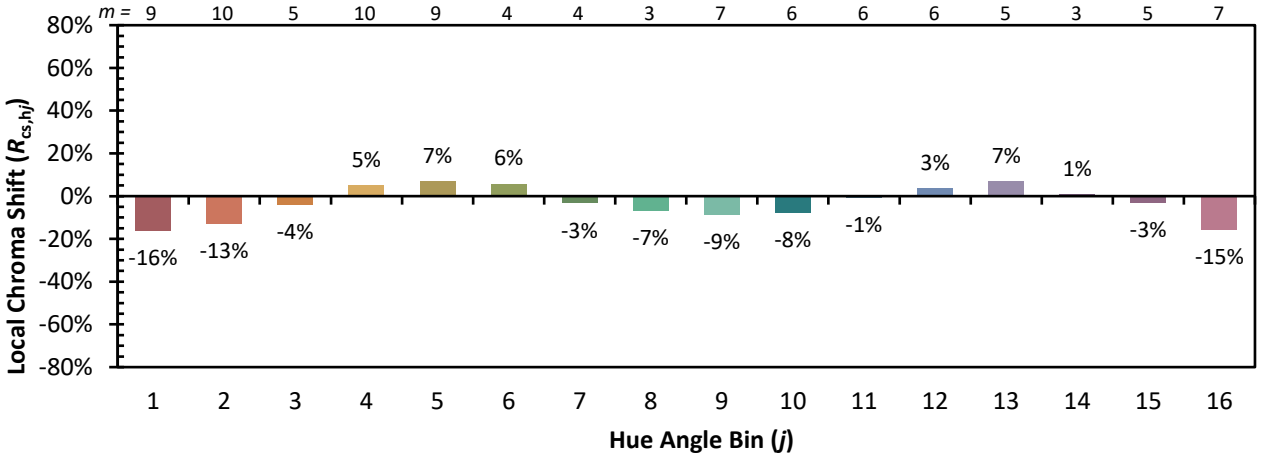
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

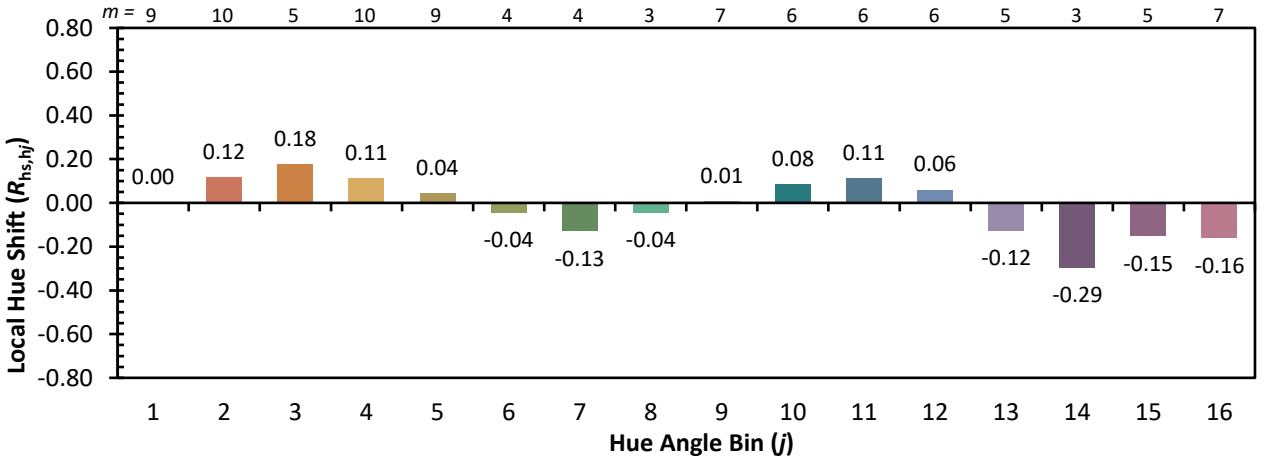


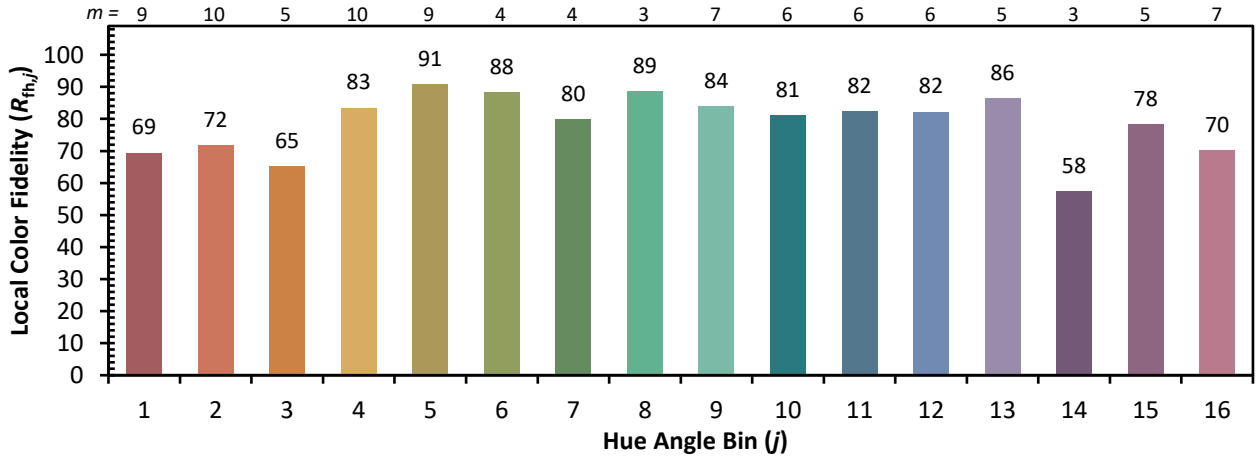
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Color Rendition by Hue-Angle Bin



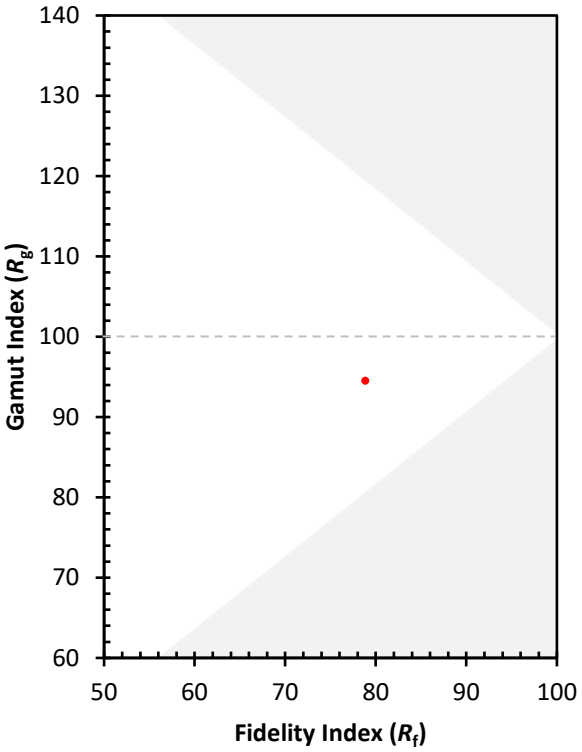


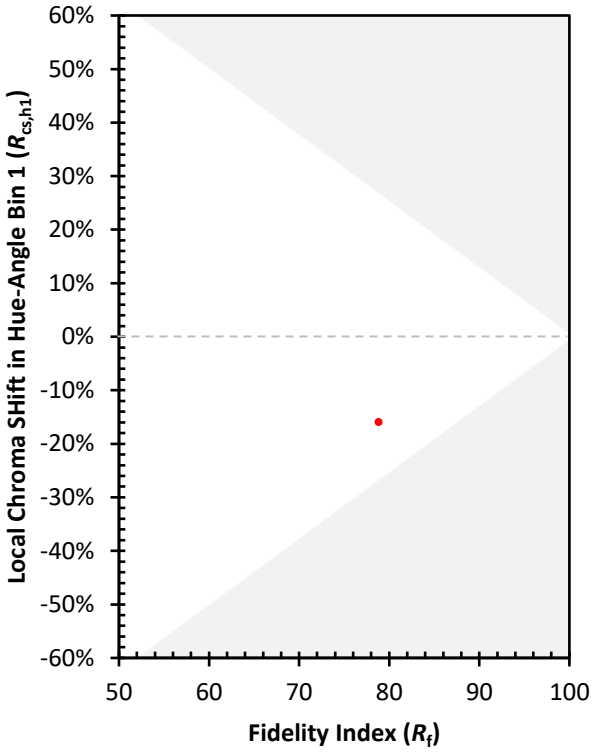


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Measure Comparisons





(END OF REPORT)