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: P1045899

Luminaire Tested: **FFX-CLB-50-740-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045899
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5700.1 lumens
Efficiency:	N/A
Efficacy:	112.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

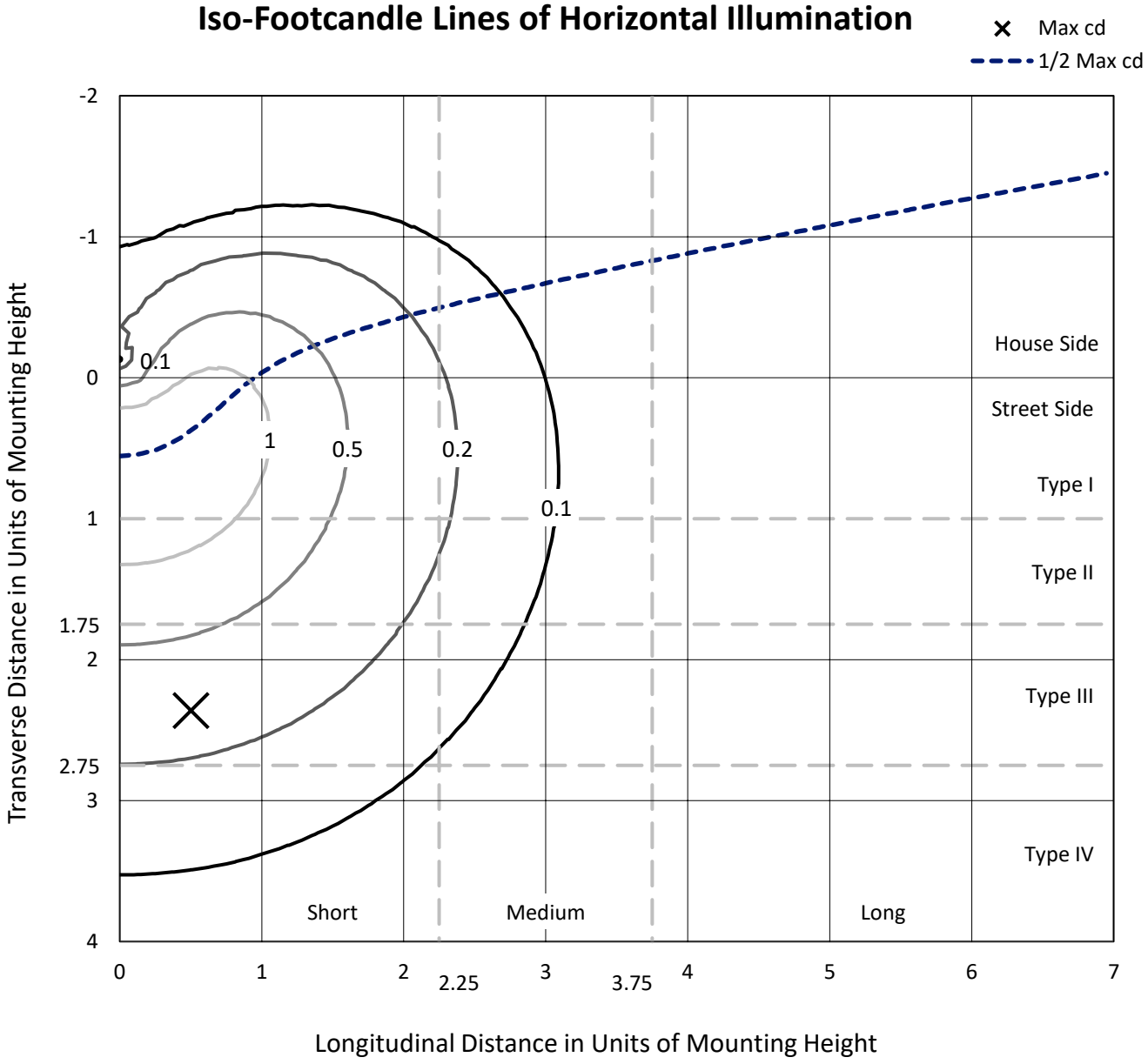


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Iso-Footcandle Lines of Horizontal Illumination



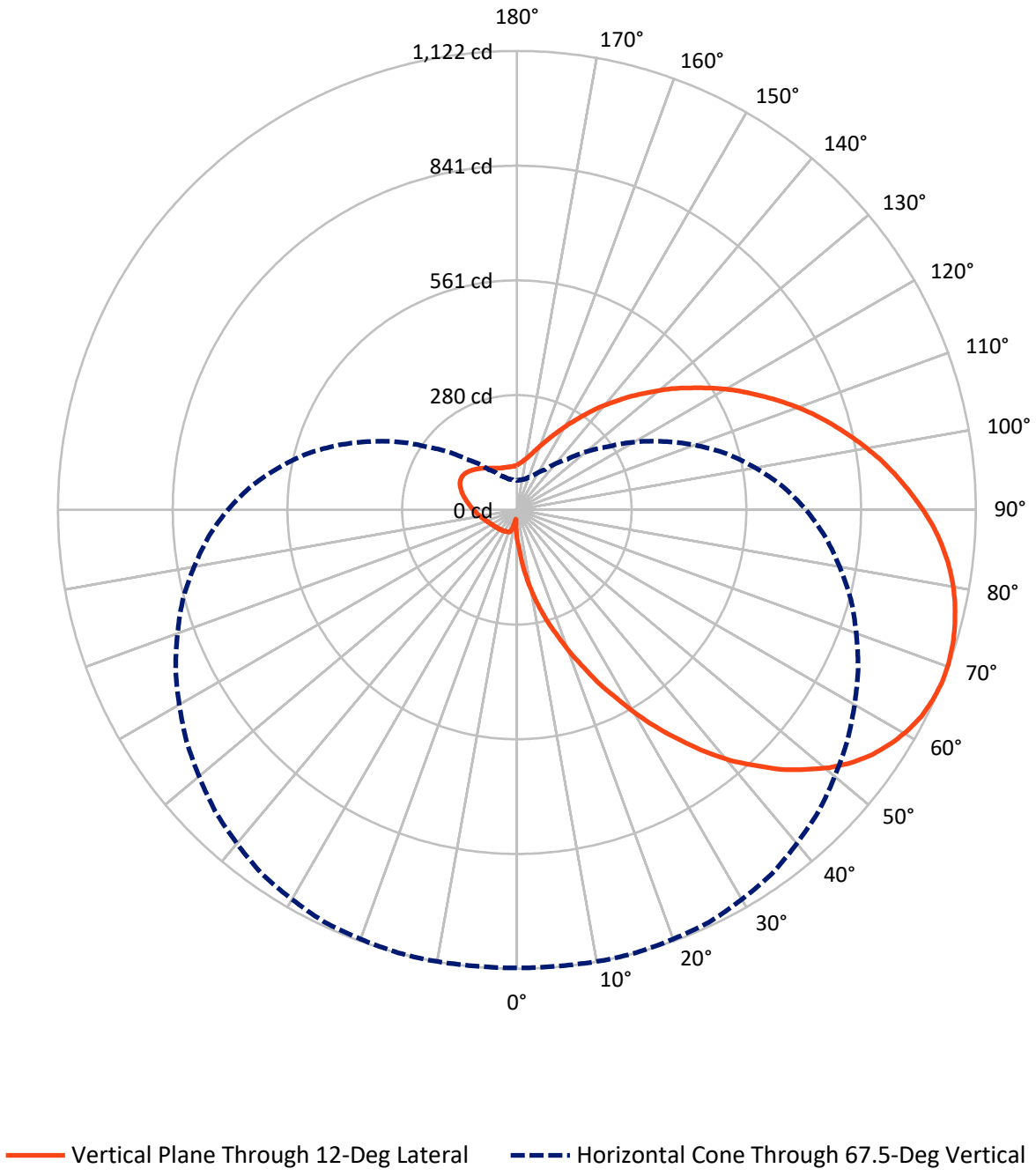
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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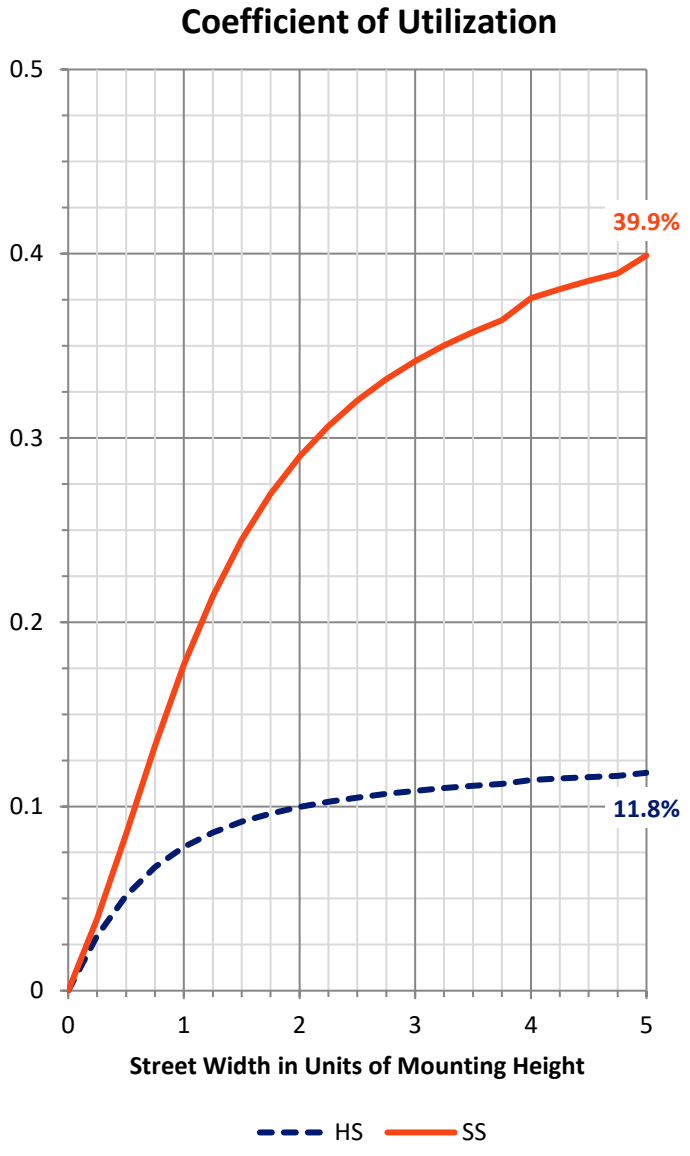
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.5	710.0	1443.5
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2593.5	1663.0	4256.6
	% Fixture	45.5	29.2	74.7
Total	Lumens	3327.1	2373.0	5700.1
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.2
10°-20°	50.7	0.9
20°-30°	132.3	2.3
30°-40°	256.7	4.5
40°-50°	403.1	7.1
50°-60°	535.1	9.4
60°-70°	623.6	10.9
70°-80°	662.5	11.6
80°-90°	654.1	11.5
90°-100°	603.1	10.6
100°-110°	526.3	9.2
110°-120°	432.7	7.6
120°-130°	327.6	5.7
130°-140°	223.8	3.9
140°-150°	137.2	2.4
150°-160°	75.2	1.3
160°-170°	36.3	0.6
170°-180°	10.7	0.2
0°-90°	3327.1	58.4
0°-180°	5700.1	100.0



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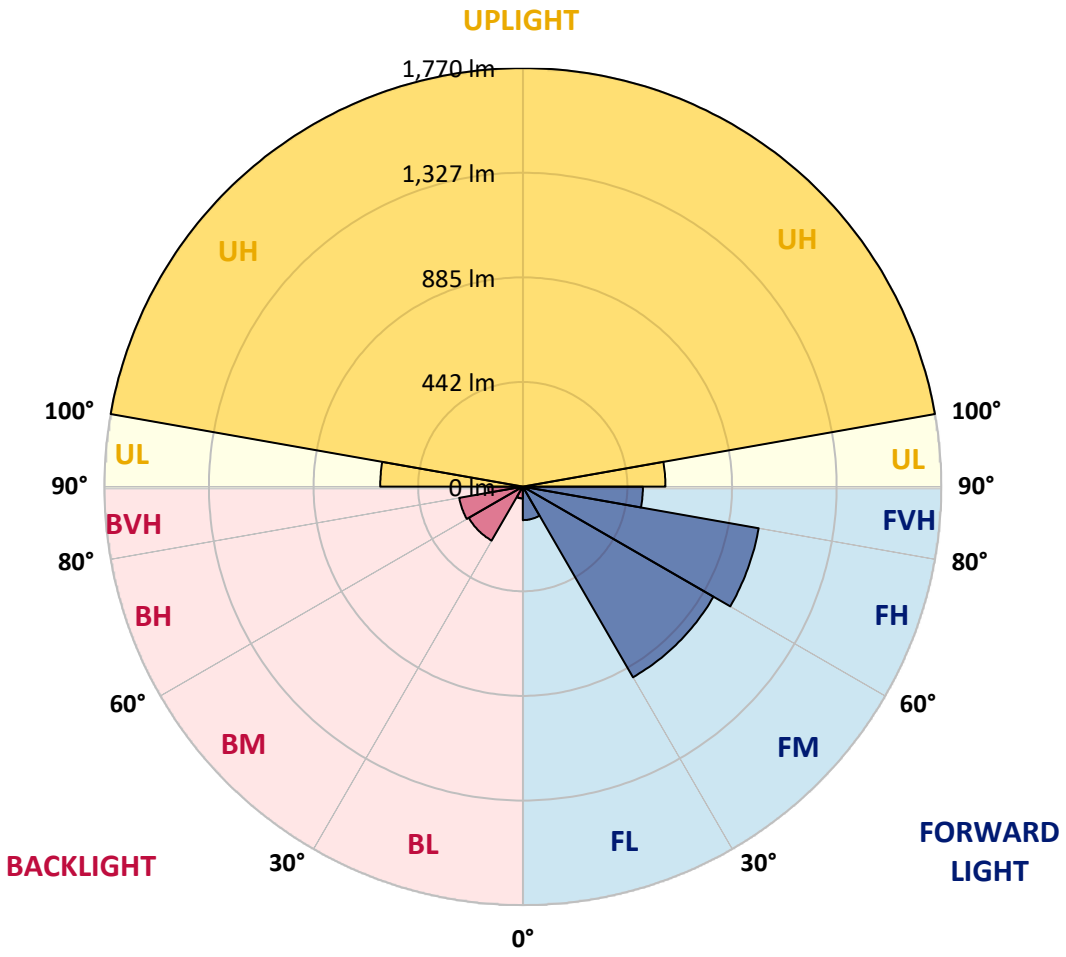
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	141.7	2.5			
FM	(30°-60°)	931.2	16.3			
FH	(60°-80°)	1012.9	17.8			G1/1800
FVH	(80°-90°)	507.7	8.9			G4/750
BL	(0°-30°)	50.2	0.9	B0/110		
BM	(30°-60°)	263.7	4.6	B1/1000		
BH	(60°-80°)	273.2	4.8	B1/500		G1/500
BVH	(80°-90°)	146.4	2.6			G2/225
UL	(90°-100°)	603.1	10.6		U4/1000	
UH	(100°-180°)	1769.9	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	72.1	72.1	*72.1*	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	90.3	92.2	*90.3*	92.8	91.6	91.6	88.4	85.3	80.9	75.9	71.5
5°	127.9	127.3	*124.8*	127.3	124.8	121.7	116.6	108.5	100.3	92.8	83.4
7.5°	166.8	167.4	*165.5*	164.9	159.3	154.9	146.7	138.6	128.5	117.3	106.0
10°	208.8	207.6	*204.4*	205.1	198.8	190.0	180.6	171.2	159.9	146.7	132.3
12.5°	247.7	247.7	*245.2*	245.8	238.9	228.9	221.4	208.8	195.0	179.3	161.8
15°	289.1	286.6	*285.3*	285.3	278.4	269.6	261.5	247.7	231.4	213.8	193.8
17.5°	327.3	326.7	*325.4*	326.1	319.8	312.3	299.1	285.3	265.9	244.6	223.9
20°	376.2	373.7	*371.9*	368.7	365.0	354.9	342.4	324.2	304.8	281.6	254.0
22.5°	420.8	423.9	*418.9*	416.4	411.4	403.2	385.0	367.5	344.3	317.3	287.2
25°	472.2	474.7	*472.8*	469.7	462.8	451.5	434.6	415.1	387.5	356.8	321.1
27.5°	526.1	528.0	*523.0*	524.2	512.3	501.7	484.7	460.9	434.6	398.2	360.6
30°	579.4	583.2	*581.3*	576.9	566.9	557.5	537.4	512.3	482.2	442.1	398.8
32.5°	642.1	637.7	*638.4*	633.3	627.1	612.0	594.5	566.2	531.1	488.5	438.9
35°	700.4	698.6	*693.5*	696.0	685.4	671.6	649.6	619.5	581.3	534.3	479.7
37.5°	752.5	754.4	*751.2*	749.3	742.4	726.8	701.1	670.3	626.4	576.9	517.3
40°	805.8	807.0	*806.4*	806.4	797.0	779.4	753.1	718.6	673.5	620.2	555.6
42.5°	856.6	857.8	*854.7*	855.3	847.8	829.6	801.4	765.0	714.9	659.0	588.8
45°	905.5	905.5	*905.5*	904.9	894.2	877.3	848.4	807.0	756.9	693.5	619.5
47.5°	950.6	949.4	*948.8*	948.8	941.9	921.8	891.1	845.9	791.4	724.9	649.6
50°	990.8	991.4	*990.8*	989.5	978.9	962.6	928.1	881.0	823.3	755.0	674.7
52.5°	1025.3	1025.9	*1026.5*	1023.4	1016.5	997.0	958.8	908.6	850.3	778.8	695.4
55°	1052.8	1054.1	*1055.4*	1054.1	1047.2	1024.0	985.8	935.0	872.3	798.9	713.6
57.5°	1078.6	1077.9	*1078.6*	1077.3	1069.8	1047.2	1007.7	953.1	889.8	815.2	727.4
60°	1096.1	1096.7	*1096.7*	1096.7	1088.0	1064.8	1022.7	966.9	902.4	827.7	739.3
62.5°	1108.0	1108.7	*1110.5*	1109.3	1101.1	1076.7	1033.4	977.0	911.8	835.9	747.5
65°	1116.2	1116.8	*1118.1*	1116.8	1109.3	1084.2	1040.3	983.2	918.0	842.2	753.1
67.5°	*1119.9*	*1119.9*	*1121.8*	*1121.2*	*1112.4*	*1086.7*	*1042.8*	*985.8*	*920.5*	*845.3*	*756.9*
70°	1118.1	1118.7	*1119.9*	1119.3	1110.5	1084.8	1040.9	984.5	919.9	845.3	757.5
72.5°	1113.7	1113.7	*1114.9*	1113.7	1105.5	1079.8	1036.5	980.7	916.8	844.0	756.9
75°	1104.9	1105.5	*1106.2*	1105.5	1096.7	1071.7	1029.0	973.8	911.8	839.6	754.4
77.5°	1094.2	1094.9	*1094.9*	1094.9	1085.5	1060.4	1019.0	965.1	904.9	834.6	750.0
80°	1078.6	1079.2	*1080.4*	1079.2	1069.8	1047.2	1005.8	954.4	896.1	826.5	744.3
82.5°	1061.0	1060.4	*1062.3*	1061.6	1052.2	1029.6	988.9	940.0	882.9	817.1	736.2
85°	1039.1	1039.1	*1040.3*	1039.1	1030.9	1007.1	968.8	922.4	867.9	803.3	726.1
87.5°	1014.6	1014.6	*1015.9*	1013.3	1003.9	983.2	946.9	901.7	851.6	789.5	714.9
90°	985.8	987.0	*987.0*	985.1	975.7	955.7	922.4	879.2	830.2	772.5	701.7
92.5°	958.2	958.2	*956.9*	956.9	946.9	926.8	896.1	856.6	810.8	755.6	687.3
95°	928.7	928.7	*926.8*	925.6	915.5	898.6	869.1	832.7	788.9	738.1	672.8
97.5°	897.3	896.7	*895.5*	894.2	884.2	867.9	841.5	806.4	766.3	718.0	657.2
100°	865.4	866.0	*861.6*	861.0	850.9	837.1	812.1	779.4	742.4	697.3	640.2
102.5°	830.2	831.5	*827.7*	827.1	817.1	802.0	782.0	752.5	719.2	677.9	623.3
105°	798.9	795.8	*793.9*	792.6	783.8	770.0	748.7	725.5	694.2	655.3	604.5
107.5°	763.1	763.8	*760.0*	757.5	748.7	737.4	718.6	697.3	669.7	632.7	586.3
110°	727.4	726.1	*724.3*	723.0	713.0	702.9	686.6	669.1	642.1	610.1	566.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	690.4	691.0	*687.9*	686.0	679.1	668.5	656.5	639.6	616.4	586.3	545.6
115°	655.9	654.7	*652.2*	650.9	643.4	635.2	623.3	610.8	590.1	561.2	524.2
117.5°	620.8	618.3	*617.7*	615.8	610.1	602.0	592.6	581.9	561.9	536.8	501.7
120°	584.4	584.4	*583.2*	581.9	574.4	567.5	561.9	550.6	533.6	509.8	479.7
122.5°	550.6	549.9	*547.4*	545.6	541.8	535.5	528.6	519.8	504.8	483.5	454.6
125°	513.6	514.8	*512.9*	512.3	506.0	502.9	496.6	491.0	475.3	455.9	430.2
127.5°	482.8	481.0	*481.0*	477.8	474.7	471.6	466.5	459.0	448.4	428.3	404.5
130°	450.2	449.0	*447.1*	447.1	443.3	438.9	435.8	429.5	417.6	401.3	378.7
132.5°	417.6	416.4	*415.1*	413.2	410.7	410.1	407.0	400.1	388.8	374.4	354.9
135°	386.9	386.3	*385.6*	385.6	381.9	380.0	376.2	370.6	363.1	349.9	331.1
137.5°	358.1	356.2	*354.9*	354.9	353.7	350.5	347.4	343.0	334.9	324.2	307.3
140°	328.0	329.2	*329.2*	328.6	326.1	324.2	320.4	316.7	308.5	299.7	285.3
142.5°	302.9	302.2	*301.0*	300.4	299.1	296.6	294.7	290.3	285.3	275.9	263.4
145°	275.9	275.9	*275.3*	275.9	273.4	272.8	270.3	266.5	260.9	252.7	242.0
147.5°	252.1	252.1	*251.5*	252.1	250.2	248.3	246.4	243.9	238.9	232.6	223.2
150°	230.1	230.8	*229.5*	229.5	228.9	227.0	225.7	222.0	218.2	213.2	205.1
152.5°	210.1	210.7	*210.1*	209.4	208.8	207.6	205.7	203.2	199.4	195.0	188.1
155°	193.1	192.5	*192.5*	192.5	191.9	190.0	190.0	186.2	182.5	179.3	172.4
157.5°	176.8	176.8	*176.8*	176.8	175.6	175.0	173.7	170.6	168.7	164.3	159.3
160°	163.7	163.0	*163.0*	163.0	161.8	161.2	159.3	158.0	155.5	151.8	148.0
162.5°	150.5	151.1	*151.1*	151.1	149.9	149.2	148.0	146.7	144.9	141.1	138.6
165°	140.5	140.5	*140.5*	139.8	139.2	139.2	137.3	136.7	134.8	132.3	130.4
167.5°	132.3	132.3	*131.7*	132.3	131.1	129.8	129.2	127.9	126.7	125.4	123.5
170°	125.4	125.4	*125.4*	125.4	124.8	124.2	122.9	122.3	121.0	119.8	117.9
172.5°	119.8	119.8	*119.8*	119.8	119.1	118.5	117.3	116.6	116.0	114.8	113.5
175°	115.4	115.4	*115.4*	115.4	114.8	114.1	112.9	112.9	112.2	111.6	110.4
177.5°	112.2	112.2	*111.6*	111.6	111.0	110.4	110.4	109.7	109.7	109.1	108.5
180°	108.5	108.5	*108.5*	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	69.0	66.5	62.1	58.3	53.9	50.8	47.7	47.0	47.0	48.3	48.3
5°	79.6	74.0	65.2	57.1	47.7	40.8	34.5	28.8	25.1	23.2	23.2
7.5°	99.7	95.3	82.1	70.9	59.6	48.9	38.9	30.1	23.8	19.4	18.8
10°	125.4	118.5	102.8	88.4	73.4	60.2	48.3	37.6	30.1	26.3	26.3
12.5°	153.0	143.6	124.8	107.2	89.7	72.7	58.9	48.3	40.8	37.0	35.7
15°	182.5	171.8	149.2	126.7	105.3	87.2	71.5	58.3	50.8	47.0	46.4
17.5°	210.1	198.2	172.4	145.5	121.0	99.1	80.3	66.5	57.1	52.7	52.0
20°	240.2	224.5	194.4	163.0	134.2	107.9	86.5	70.2	58.9	53.9	53.3
22.5°	270.9	252.7	217.0	180.6	146.1	116.0	90.9	72.1	59.6	53.9	53.3
25°	303.5	283.4	241.4	199.4	159.3	124.2	95.3	74.0	60.8	53.9	53.3
27.5°	338.0	315.4	267.1	219.5	172.4	132.3	99.7	76.5	61.5	54.6	53.3
30°	375.0	349.3	293.5	238.9	185.0	139.8	103.5	77.8	62.1	54.6	53.9
32.5°	412.0	380.6	322.3	257.7	198.2	146.7	107.2	79.6	62.7	55.2	54.6
35°	447.7	417.0	348.7	277.2	210.7	153.6	110.4	80.9	64.0	55.8	54.6
37.5°	484.1	450.9	373.7	295.3	222.0	159.3	112.9	82.1	64.6	56.4	55.2
40°	518.6	479.7	398.2	312.9	231.4	164.3	114.8	82.8	65.2	57.1	55.8
42.5°	551.2	509.8	421.4	328.0	240.8	168.1	116.6	84.0	65.8	57.7	57.1
45°	578.8	536.1	441.5	343.0	247.7	171.2	117.9	84.7	66.5	58.3	57.7
47.5°	605.7	560.0	460.3	354.9	254.6	174.3	118.5	85.3	67.1	59.6	58.9
50°	629.6	581.3	477.2	365.6	259.6	175.6	119.1	85.9	68.4	60.8	60.2
52.5°	649.6	599.5	490.4	374.4	263.4	176.8	119.1	85.9	69.0	62.1	61.5
55°	665.9	615.2	502.3	380.6	265.9	177.5	119.1	86.5	70.2	63.3	62.7
57.5°	679.7	627.1	511.7	386.3	268.4	177.5	119.1	87.2	71.5	64.6	64.0
60°	689.8	637.1	518.6	390.0	269.0	176.8	119.1	87.8	72.7	66.5	65.8
62.5°	697.9	644.0	524.2	392.5	269.0	175.6	119.1	88.4	74.0	68.4	67.7
65°	703.6	649.0	528.0	393.8	268.4	175.0	119.1	89.7	75.9	70.2	69.6
67.5°	*706.7*	*652.8*	*530.5*	*395.1*	*267.8*	*175.0*	*119.8*	*91.6*	*77.8*	*72.7*	*72.1*
70°	708.0	653.4	531.1	394.4	267.1	173.7	120.4	92.8	80.3	75.2	74.6
72.5°	708.0	654.0	531.1	394.4	265.9	174.3	121.0	94.7	82.8	77.8	77.1
75°	706.1	652.2	530.5	393.2	265.3	173.7	122.9	97.2	85.3	80.9	80.3
77.5°	702.3	649.6	528.6	391.3	264.6	174.3	124.2	99.7	88.4	84.0	84.0
80°	697.9	645.9	526.1	389.4	264.0	175.6	126.0	102.8	91.6	87.8	87.2
82.5°	691.0	640.2	521.7	386.9	262.7	176.2	128.5	106.0	95.3	90.9	90.9
85°	681.6	632.1	516.1	383.8	261.5	177.5	131.1	108.5	99.1	94.7	94.7
87.5°	671.6	623.3	509.2	380.0	260.9	178.7	134.2	112.2	102.2	98.4	97.8
90°	659.7	612.6	502.3	375.6	260.2	180.6	136.7	116.0	106.6	102.8	102.2
92.5°	647.1	602.0	494.8	372.5	259.6	182.5	140.5	120.4	111.0	107.2	106.6
95°	634.6	590.7	487.2	368.1	259.6	185.0	144.2	124.8	115.4	111.6	111.0
97.5°	620.2	578.2	478.5	364.3	259.6	188.1	148.6	129.2	119.8	116.0	116.0
100°	605.1	565.6	469.7	360.6	260.2	191.3	153.0	134.2	124.8	121.0	121.0
102.5°	590.1	551.8	461.5	357.4	261.5	195.6	158.6	139.8	130.4	126.7	126.0
105°	573.8	538.0	452.1	353.0	262.7	199.4	163.7	144.9	135.4	131.7	131.7
107.5°	557.5	523.6	442.7	349.9	264.0	203.2	169.3	150.5	141.1	136.7	136.7
110°	539.3	507.9	432.7	346.1	265.3	207.6	173.7	155.5	145.5	141.7	141.1

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

Scaled Data Report

REPORT NUMBER: P1045899
CATALOG NUMBER: FFX-CLB-50-740-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	520.5	492.2	422.0	341.1	265.9	211.3	178.7	160.5	150.5	146.1	145.5
115°	500.4	474.7	410.1	336.1	265.9	214.5	182.5	164.3	154.3	149.9	149.2
117.5°	480.3	455.9	396.9	329.2	265.3	216.3	185.6	166.8	156.8	152.4	151.8
120°	459.0	437.1	383.8	322.3	262.7	217.0	186.9	168.7	158.0	153.6	153.0
122.5°	437.1	417.0	368.1	312.9	259.0	216.3	186.9	168.7	158.0	153.0	152.4
125°	413.2	395.7	351.8	301.6	253.3	213.8	185.6	167.4	156.8	151.8	150.5
127.5°	390.0	374.4	334.9	290.3	246.4	210.1	183.1	164.9	154.3	149.2	148.6
130°	367.5	351.8	317.3	277.8	238.3	205.1	178.7	161.2	151.1	145.5	144.9
132.5°	343.6	329.2	299.7	264.6	228.9	198.8	174.3	157.4	146.7	142.3	141.1
135°	319.8	308.5	281.6	250.8	219.5	191.9	169.3	153.0	143.0	138.0	138.0
137.5°	298.5	287.2	263.4	237.0	209.4	183.7	163.0	148.0	138.6	134.2	133.6
140°	276.5	267.8	246.4	223.2	198.8	176.2	158.0	143.6	134.8	130.4	129.8
142.5°	255.8	247.1	230.1	208.8	188.1	168.1	151.8	138.6	130.4	126.7	126.0
145°	235.2	228.9	212.6	195.6	177.5	159.9	144.9	133.6	126.7	122.9	122.9
147.5°	217.0	211.3	196.9	182.5	166.8	152.4	139.2	129.2	122.9	119.8	119.1
150°	199.4	194.4	182.5	170.6	156.1	144.2	132.9	124.8	119.1	116.6	116.0
152.5°	183.1	179.3	169.3	159.3	147.4	136.7	127.9	121.0	116.0	113.5	113.5
155°	169.3	166.2	157.4	148.6	139.2	130.4	122.9	117.3	113.5	111.6	111.0
157.5°	157.4	153.6	146.7	139.8	132.3	124.8	119.1	114.1	111.6	109.7	109.7
160°	146.1	143.0	137.3	132.3	126.0	120.4	115.4	112.2	109.7	108.5	108.5
162.5°	136.7	134.2	129.8	125.4	121.0	116.6	112.9	110.4	108.5	107.2	107.2
165°	128.5	127.3	123.5	120.4	116.6	113.5	111.0	109.1	107.9	107.2	107.2
167.5°	122.3	121.0	118.5	116.0	113.5	111.0	109.1	107.9	107.2	106.6	106.6
170°	117.3	116.0	114.8	112.9	111.0	109.1	107.9	107.2	106.6	106.6	106.6
172.5°	113.5	112.2	111.6	110.4	109.1	107.9	107.2	106.6	106.6	106.6	106.6
175°	110.4	109.7	109.1	108.5	107.9	107.2	106.6	106.6	106.6	106.6	106.6
177.5°	108.5	107.9	107.9	107.2	107.2	106.6	106.6	107.2	107.2	107.2	107.9
180°	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

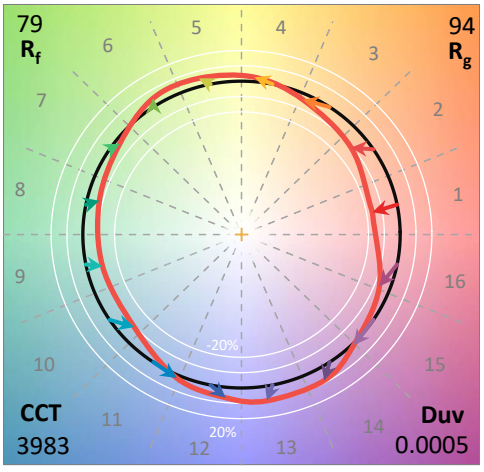
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-11
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	3983	CRI (Ra):	76.2		
CIE u':	0.2252	R1:	72.6	R9:	-26.0
CIE v':	0.5025	R2:	84.0	R10:	63.7
Duv:	0.0005	R3:	93.4	R11:	72.4
CIE x:	0.3815	R4:	74.5	R12:	56.4
CIE y:	0.3785	R5:	73.8	R13:	75.0
CIE z:	0.2400	R6:	78.3	R14:	96.6
Peak Wavelength (nm):	448	R7:	81.1	R15:	64.5
Dominant Wavelength (nm):	578	R8:	52.1		
Purity:	28.07575				

Rf:	79
Rg:	94.1



Test Conditions

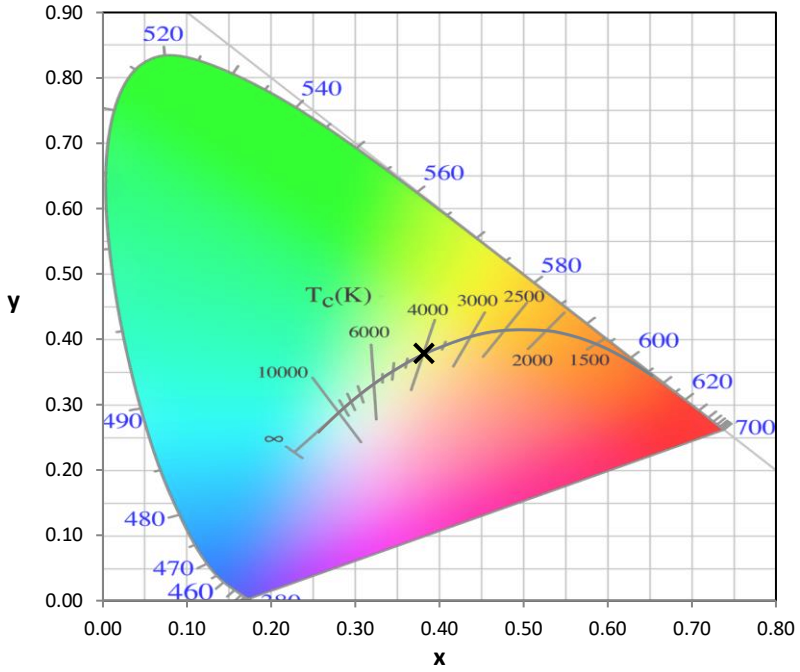
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-11

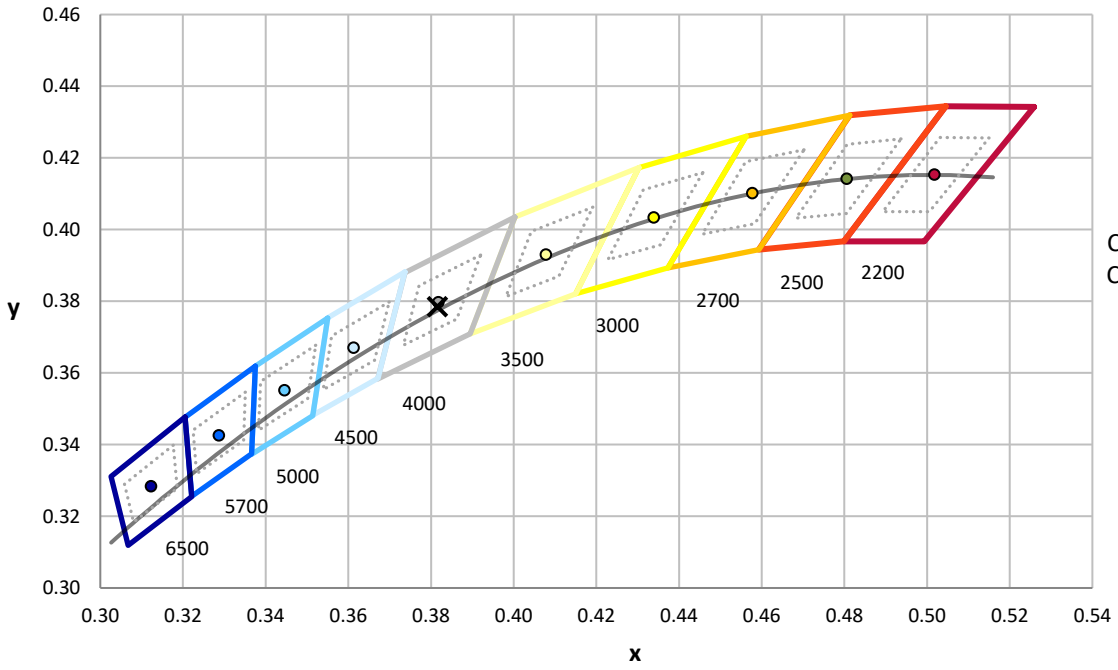
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-11

CIE 1931 Chromaticity Diagram



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

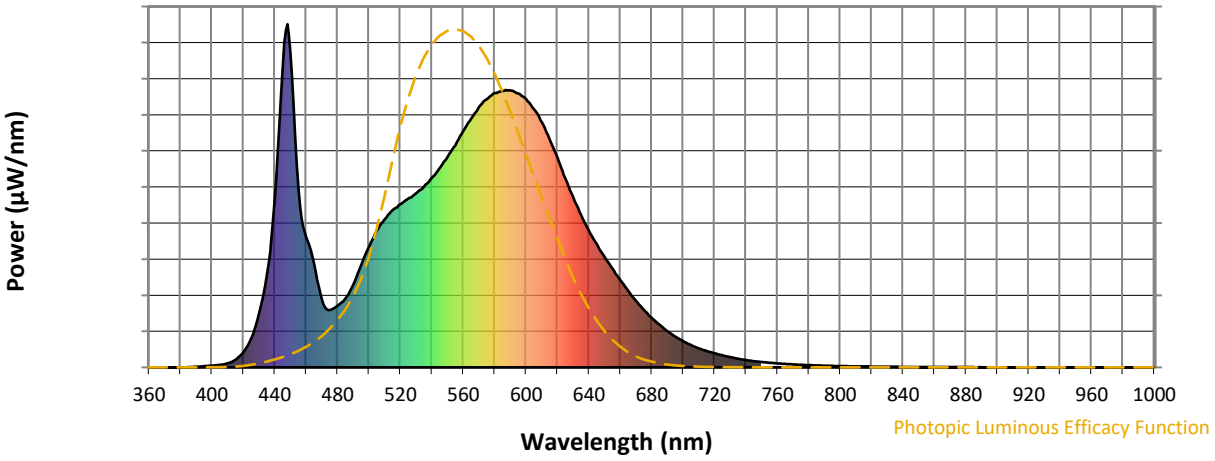


CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

Photopic Flux vs. Wavelength

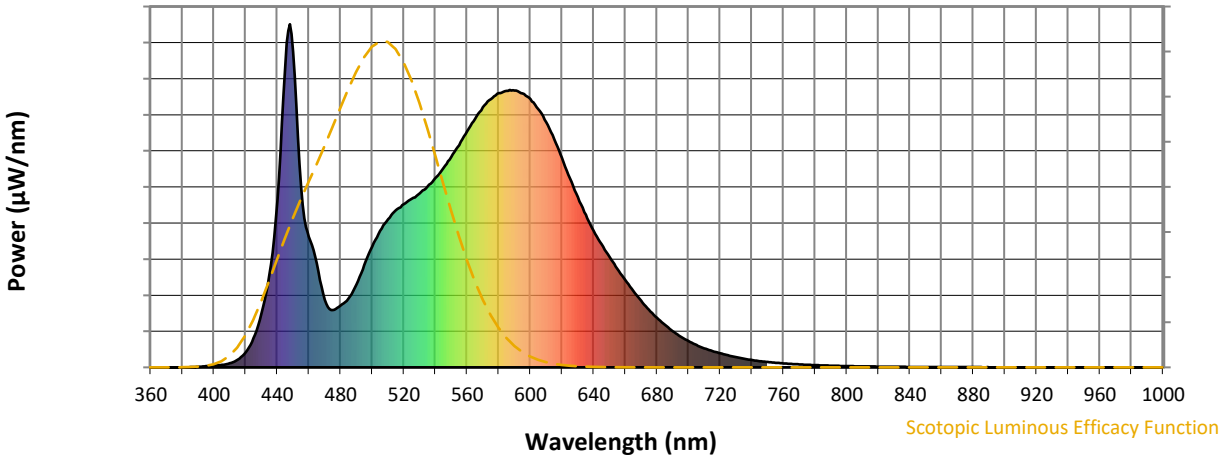


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Scotopic Flux vs. Wavelength

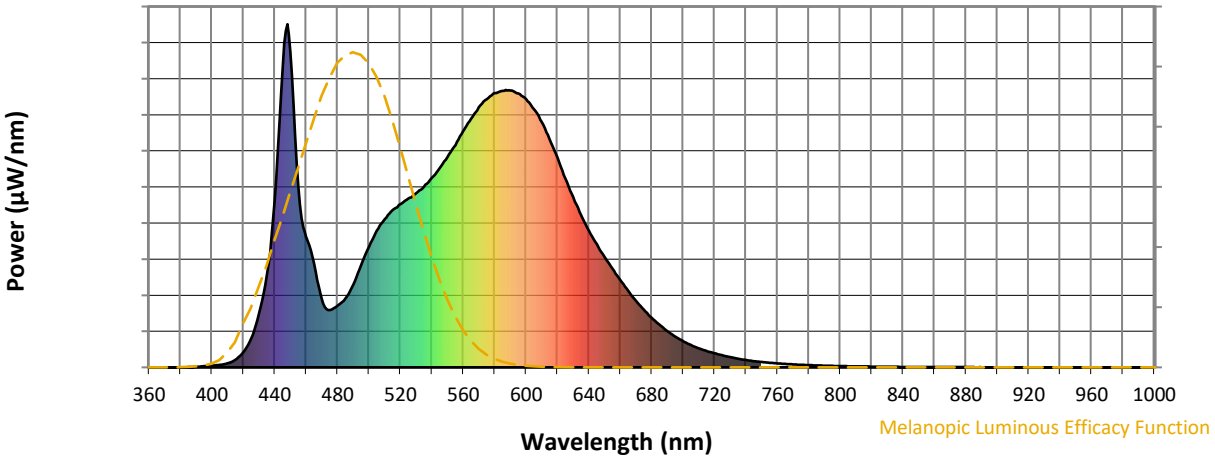


Scotopic Lumens: NR **S/P: 1.61**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.24**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	241	NR	620	611	NR	750	16	NR	880	1	NR
365	0	NR	495	298	NR	625	551	NR	755	13	NR	885	1	NR
370	0	NR	500	352	NR	630	496	NR	760	12	NR	890	0	NR
375	0	NR	505	399	NR	635	444	NR	765	10	NR	895	0	NR
380	0	NR	510	432	NR	640	398	NR	770	9	NR	900	0	NR
385	1	NR	515	458	NR	645	359	NR	775	8	NR	905	0	NR
390	2	NR	520	476	NR	650	321	NR	780	7	NR	910	0	NR
395	3	NR	525	492	NR	655	287	NR	785	6	NR	915	0	NR
400	5	NR	530	508	NR	660	254	NR	790	5	NR	920	0	NR
405	7	NR	535	527	NR	665	223	NR	795	4	NR	925	0	NR
410	12	NR	540	552	NR	670	194	NR	800	4	NR	930	0	NR
415	23	NR	545	582	NR	675	168	NR	805	3	NR	935	0	NR
420	44	NR	550	613	NR	680	144	NR	810	3	NR	940	0	NR
425	85	NR	555	648	NR	685	124	NR	815	3	NR	945	0	NR
430	156	NR	560	689	NR	690	105	NR	820	2	NR	950	0	NR
435	272	NR	565	725	NR	695	90	NR	825	2	NR	955	0	NR
440	486	NR	570	758	NR	700	76	NR	830	2	NR	960	0	NR
445	871	NR	575	782	NR	705	65	NR	835	2	NR	965	0	NR
450	919	NR	580	799	NR	710	55	NR	840	1	NR	970	0	NR
455	526	NR	585	806	NR	715	48	NR	845	1	NR	975	0	NR
460	380	NR	590	807	NR	720	41	NR	850	1	NR	980	0	NR
465	303	NR	595	799	NR	725	35	NR	855	1	NR	985	0	NR
470	197	NR	600	782	NR	730	30	NR	860	1	NR	990	0	NR
475	167	NR	605	752	NR	735	25	NR	865	1	NR	995	0	NR
480	180	NR	610	714	NR	740	21	NR	870	1	NR	1000	0	NR
485	201	NR	615	665	NR	745	18	NR	875	1	NR			

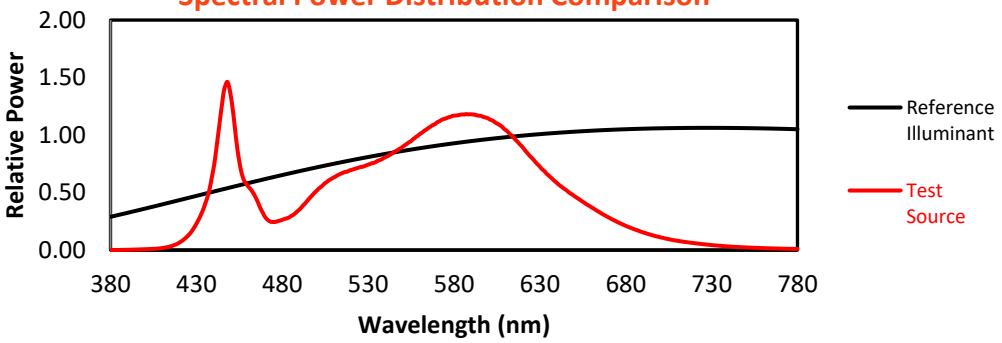
REPORT NUMBER: SP1-2501-332-11

TM-30-18

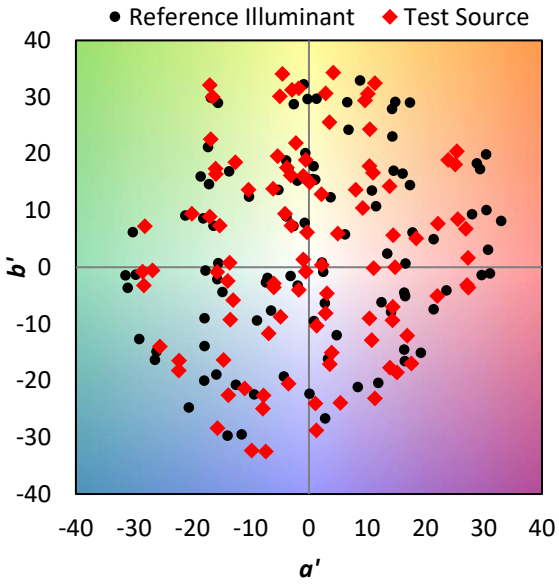
Summary

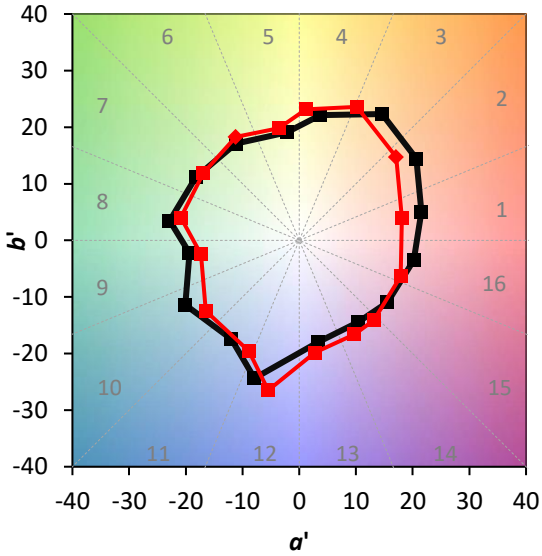
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R_g = 94.1
CIE R_a = 76.2
R_9 = -26.0

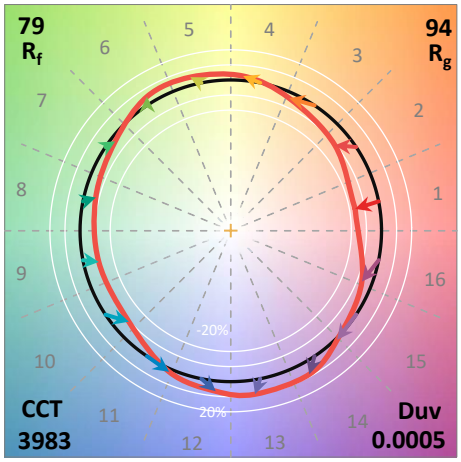
Spectral Power Distribution Comparison

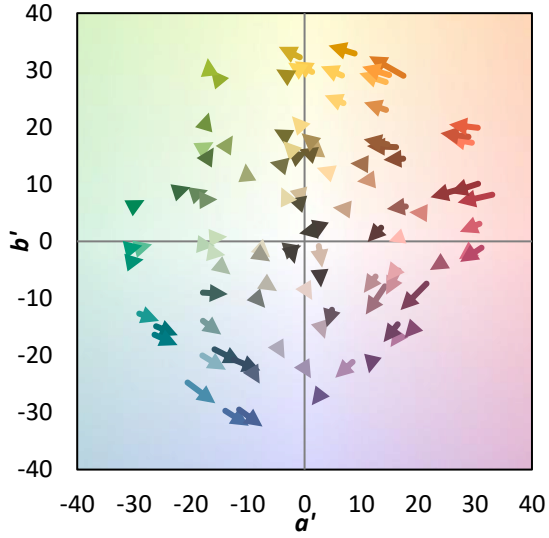


Color Vector Graphics







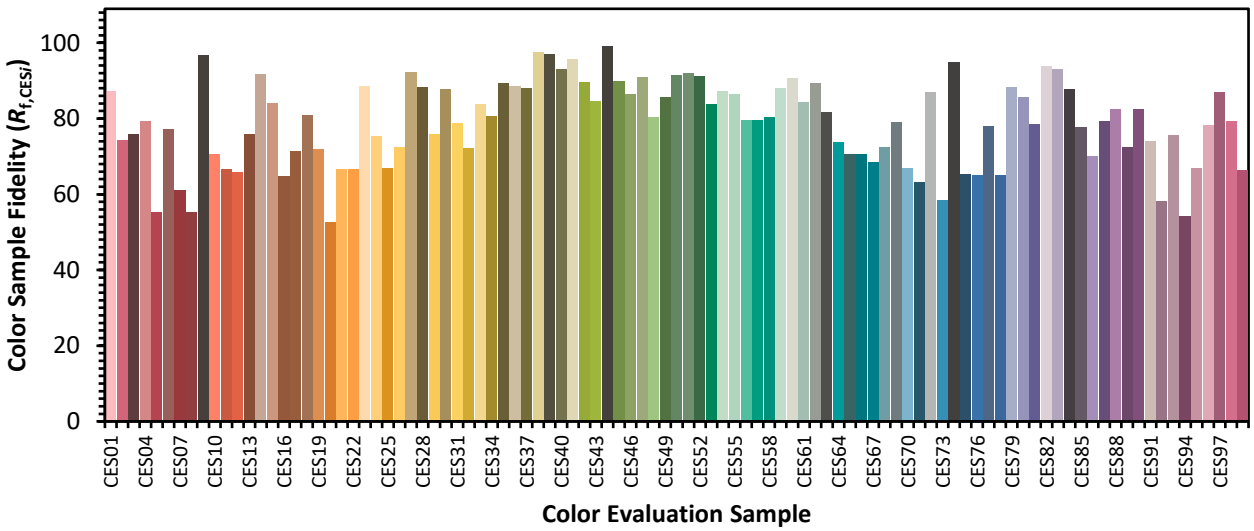


REPORT NUMBER: SP1-2501-332-11

TM-30-18

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

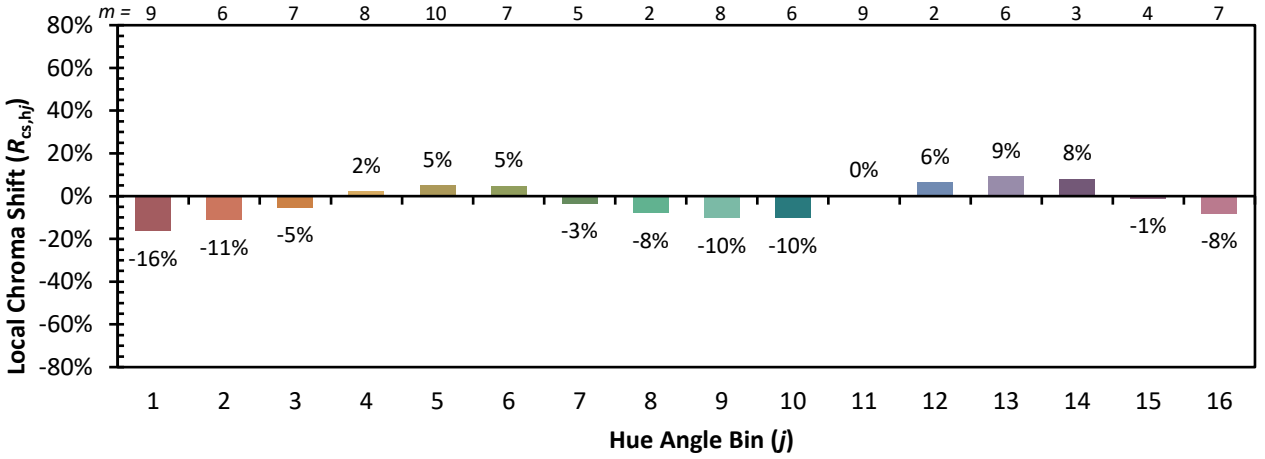
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CES02 = 61	CES27 = 92	CES52 = 91	CES77 = 78
CES03 = 30	CES28 = 88	CES53 = 84	CES78 = 65
CES04 = 70	CES29 = 76	CES54 = 87	CES79 = 88
CES05 = 47	CES30 = 88	CES55 = 86	CES80 = 86
CES06 = 50	CES31 = 79	CES56 = 80	CES81 = 79
CES07 = 40	CES32 = 72	CES57 = 79	CES82 = 94
CES08 = 39	CES33 = 84	CES58 = 80	CES83 = 93
CES09 = 29	CES34 = 81	CES59 = 88	CES84 = 88
CES10 = 74	CES35 = 89	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 88	CES61 = 84	CES86 = 70
CES12 = 63	CES37 = 88	CES62 = 89	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 71	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 71	CES91 = 74
CES17 = 49	CES42 = 90	CES67 = 68	CES92 = 58
CES18 = 56	CES43 = 85	CES68 = 72	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 79	CES94 = 54
CES20 = 65	CES45 = 90	CES70 = 67	CES95 = 67
CES21 = 86	CES46 = 87	CES71 = 63	CES96 = 78
CES22 = 78	CES47 = 91	CES72 = 87	CES97 = 87
CES23 = 91	CES48 = 80	CES73 = 58	CES98 = 79
CES24 = 91	CES49 = 86	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 92	CES75 = 65	

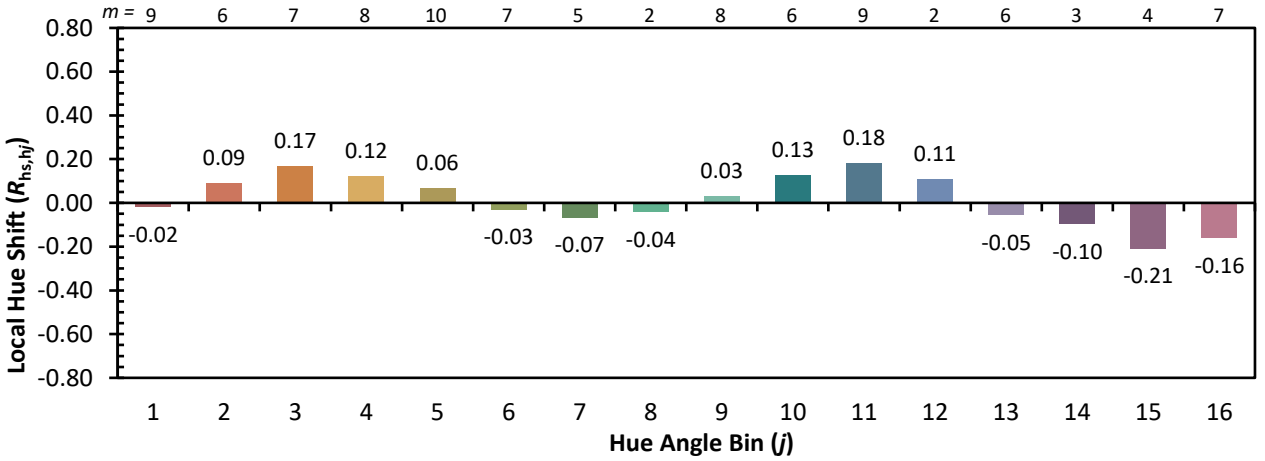


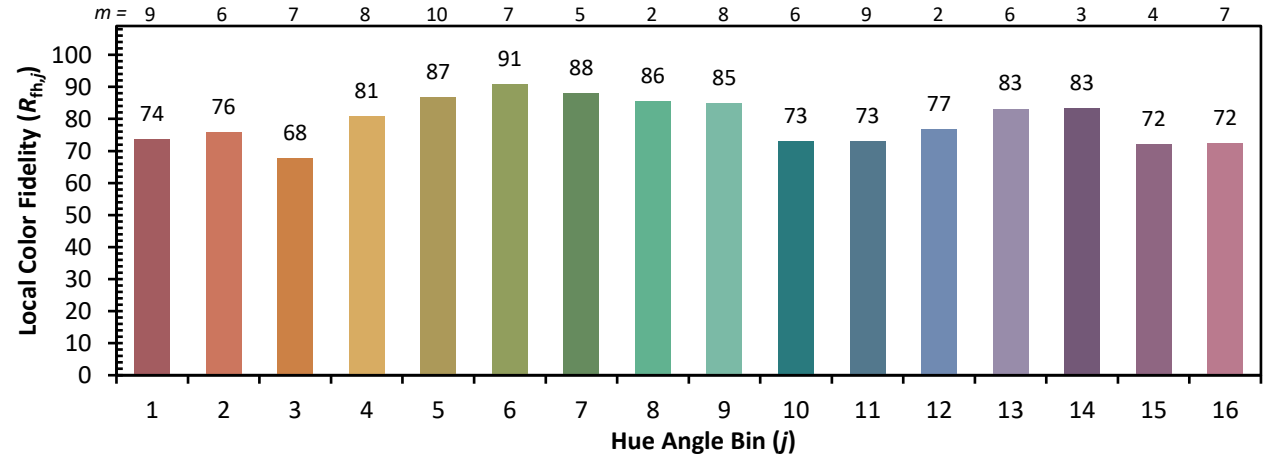
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Color Rendition by Hue-Angle Bin



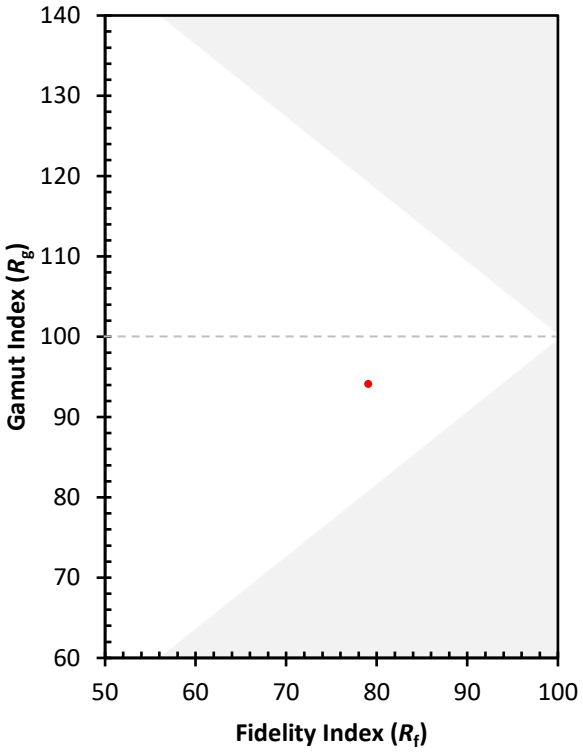


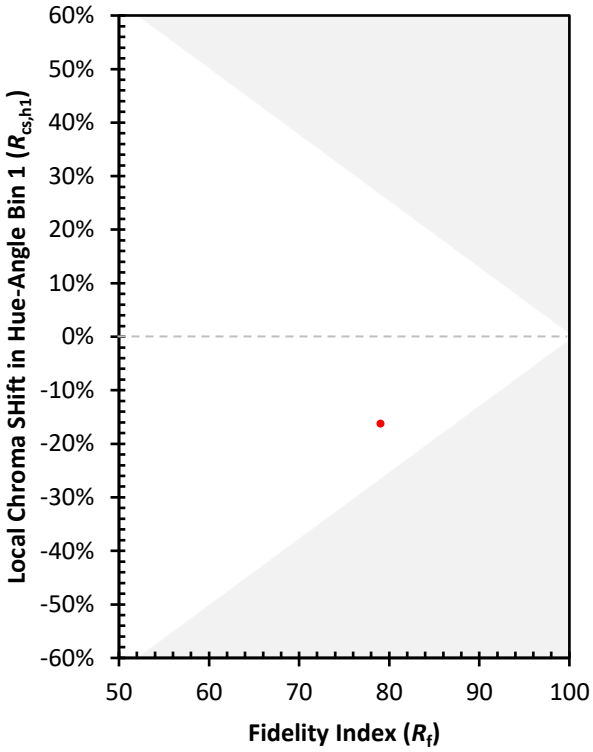


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Measure Comparisons





(END OF REPORT)