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: P1045845

Luminaire Tested: **FFX-CLB-50-730-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045845
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5438.5 lumens
Efficiency:	N/A
Efficacy:	107.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

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

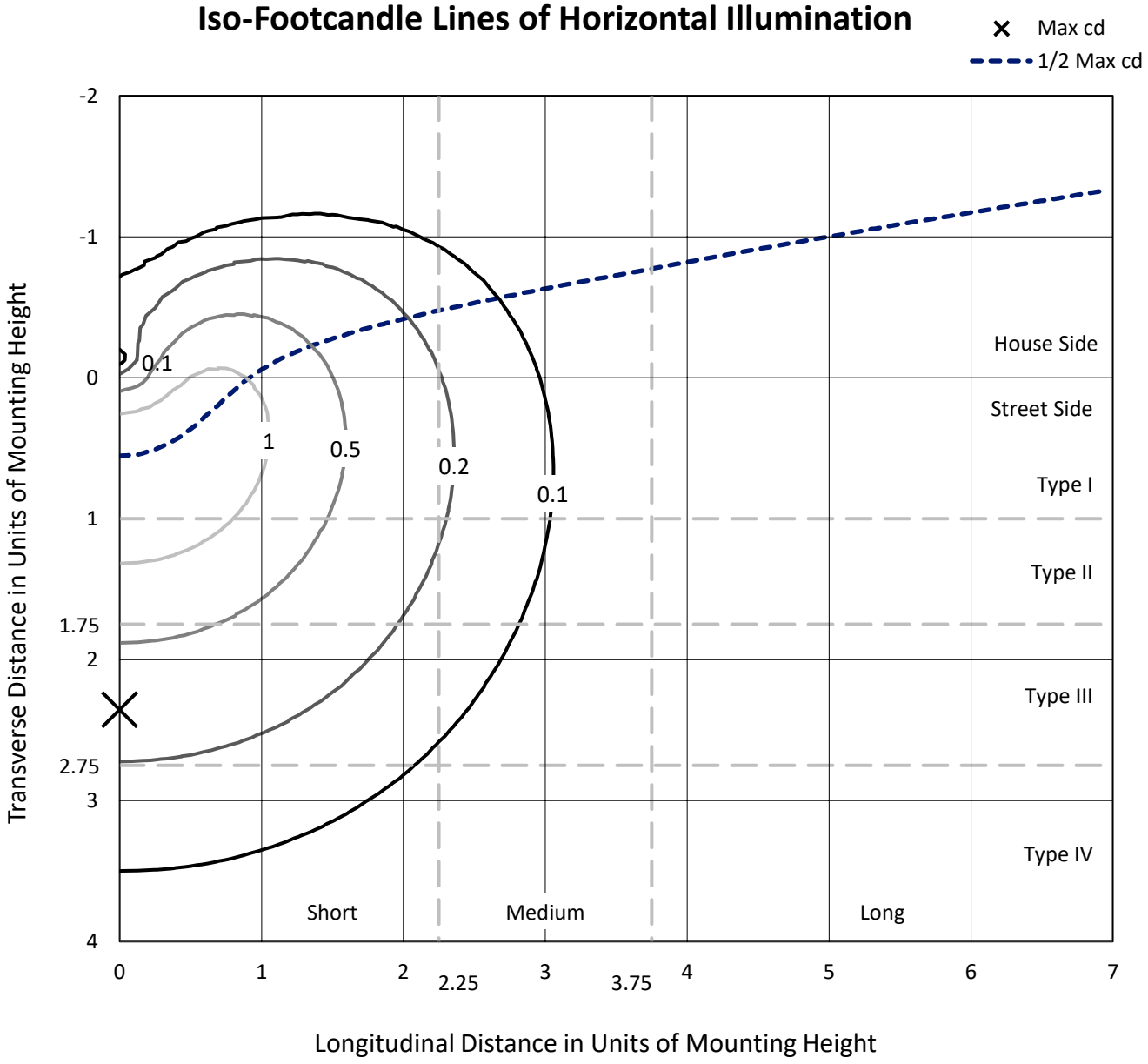


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Iso-Footcandle Lines of Horizontal Illumination



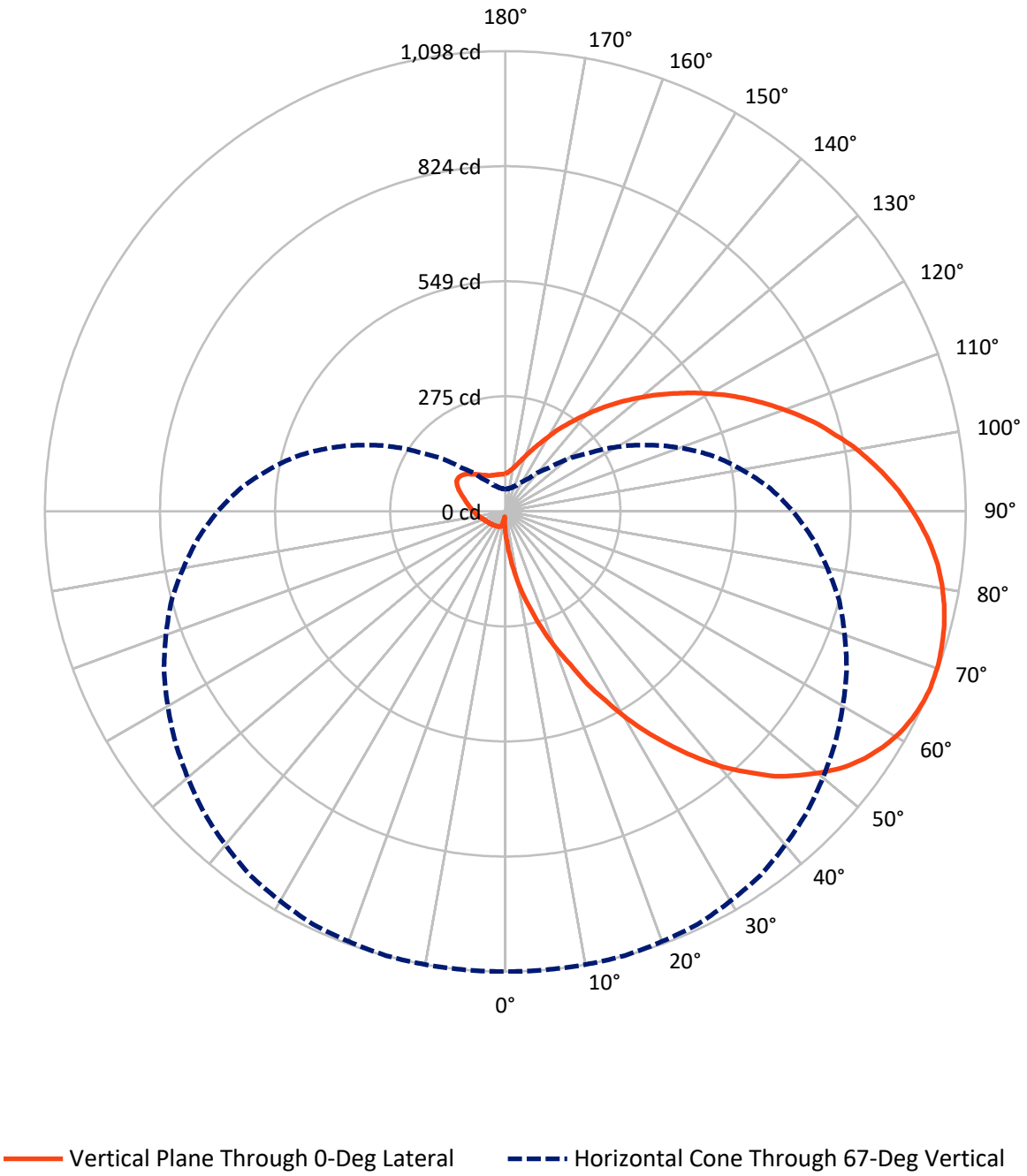
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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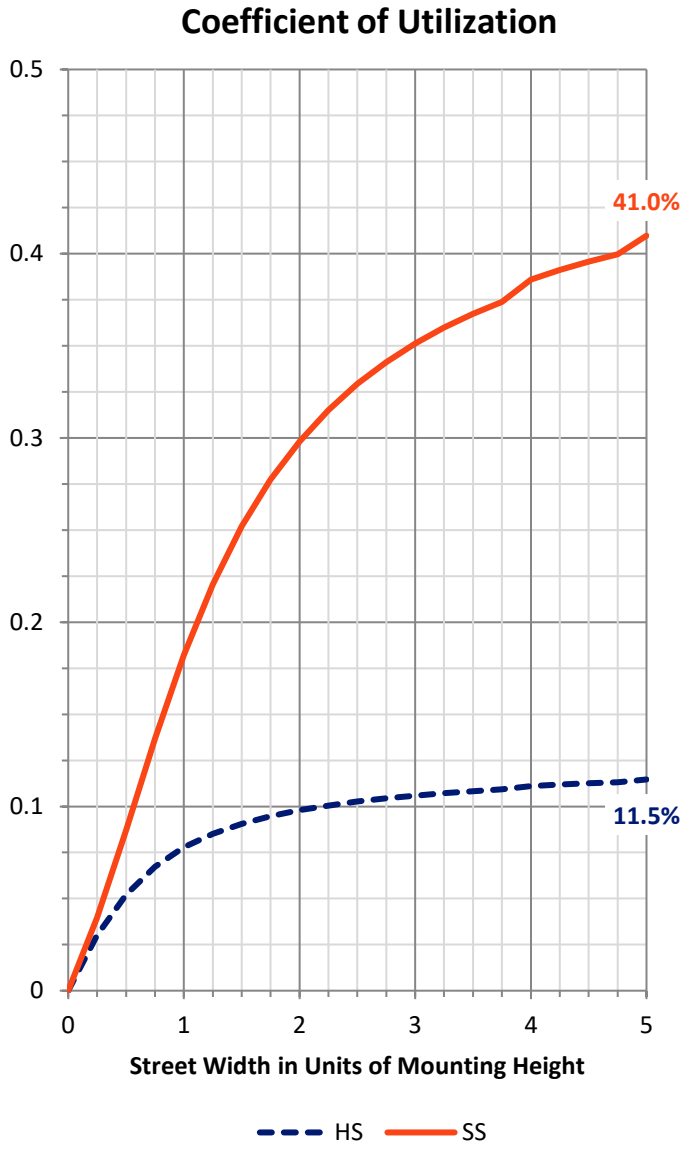
REPORT NUMBER: P1045845
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	673.5	641.6	1315.1
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2539.4	1584.0	4123.5
	% Fixture	46.7	29.1	75.8
Total	Lumens	3212.9	2225.7	5438.5
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	45.2	0.8
20°-30°	126.2	2.3
30°-40°	252.5	4.6
40°-50°	396.8	7.3
50°-60°	521.7	9.6
60°-70°	602.4	11.1
70°-80°	635.7	11.7
80°-90°	625.2	11.5
90°-100°	573.8	10.6
100°-110°	496.3	9.1
110°-120°	407.3	7.5
120°-130°	310.6	5.7
130°-140°	209.2	3.8
140°-150°	124.0	2.3
150°-160°	65.2	1.2
160°-170°	30.4	0.6
170°-180°	8.8	0.2
0°-90°	3212.9	59.1
0°-180°	5438.5	100.0



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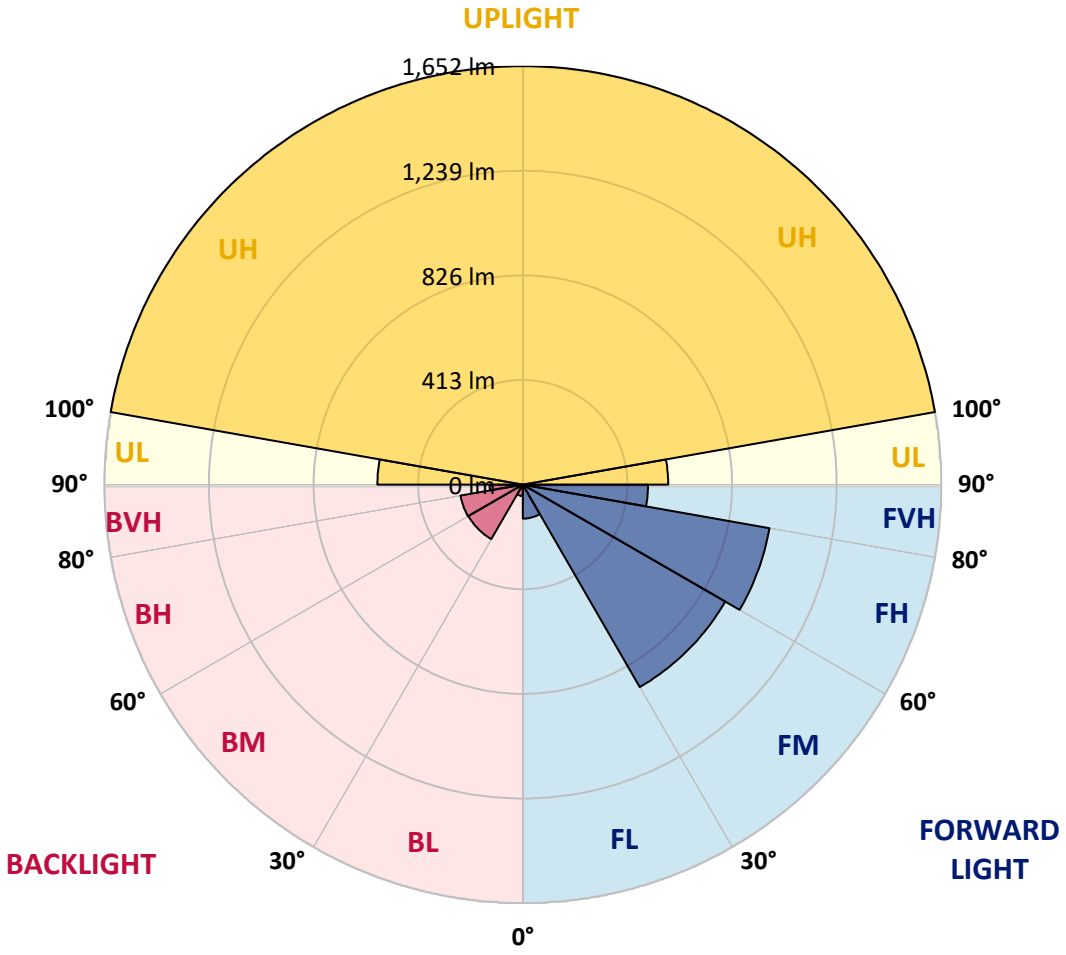
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	134.2	2.5			
FM	(30°-60°)	922.7	17.0			
FH	(60°-80°)	988.5	18.2			G1/1800
FVH	(80°-90°)	494.1	9.1			G3/500
BL	(0°-30°)	44.4	0.8	B0/110		
BM	(30°-60°)	248.3	4.6	B1/1000		
BH	(60°-80°)	249.7	4.6	B1/500		G1/500
BVH	(80°-90°)	131.1	2.4			G2/225
UL	(90°-100°)	573.8	10.6		U4/1000	
UH	(100°-180°)	1651.8	30.4		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2.5°	70.2	71.4	71.4	70.8	70.2	69.0	67.8	65.5	60.7	57.1	53.6
5°	101.7	101.7	102.3	101.7	99.4	97.0	91.6	87.5	79.7	73.8	67.2
7.5°	138.0	139.8	139.2	137.5	133.3	127.9	121.4	113.7	105.9	97.0	86.9
10°	178.5	177.9	177.9	175.5	170.8	163.6	156.5	147.6	136.3	125.0	111.9
12.5°	216.6	218.4	217.2	214.2	208.3	202.9	194.0	183.9	170.8	158.9	141.0
15°	257.6	258.8	258.8	257.1	251.7	244.0	233.8	224.3	207.1	190.4	173.2
17.5°	304.7	302.9	300.5	300.5	293.9	287.4	277.3	264.2	245.2	226.7	203.5
20°	351.7	351.1	348.1	346.3	342.1	332.6	319.5	304.7	285.6	264.8	237.4
22.5°	395.7	401.6	401.0	398.1	392.7	383.2	368.9	351.1	331.4	305.2	273.7
25°	458.2	454.6	455.2	452.2	447.5	436.2	421.9	401.0	377.2	348.1	312.4
27.5°	512.3	511.1	511.1	509.3	502.8	490.9	474.2	454.6	427.2	392.7	352.9
30°	574.8	571.8	570.6	568.8	562.3	549.2	532.0	507.6	477.8	442.7	395.7
32.5°	633.7	631.3	627.2	626.6	621.8	608.1	588.5	563.5	529.6	488.5	436.8
35°	690.2	691.4	689.6	686.7	680.1	667.0	648.0	617.6	584.3	536.7	480.8
37.5°	747.4	746.8	748.0	745.6	735.5	723.0	700.3	668.2	630.1	578.4	519.5
40°	803.3	800.3	799.7	797.3	790.2	777.7	752.1	719.4	676.5	623.0	556.4
42.5°	851.5	852.7	851.5	849.1	839.6	825.3	798.5	762.2	717.0	659.3	590.9
45°	902.1	900.3	899.7	899.7	887.2	872.3	843.2	805.7	755.1	693.2	620.6
47.5°	941.9	944.3	943.1	940.1	931.8	913.4	882.4	841.4	788.4	724.7	647.4
50°	979.4	982.4	983.0	980.0	969.9	949.7	917.5	871.7	818.2	750.9	670.6
52.5°	1013.9	1013.3	1015.1	1013.3	1003.8	983.0	946.1	899.7	842.0	772.9	688.4
55°	1040.7	1040.7	1041.9	1039.5	1030.6	1007.4	969.3	919.9	861.0	790.2	703.9
57.5°	1062.1	1063.3	1062.7	1062.1	1052.0	1027.6	987.2	936.0	876.5	802.7	715.2
60°	1078.8	1079.4	1079.4	1078.2	1068.1	1042.5	1001.4	948.5	886.6	813.4	724.2
62.5°	1089.5	1090.1	1090.1	1088.9	1078.8	1052.6	1011.0	956.2	893.7	820.0	730.1
65°	1096.0	1096.6	1096.6	1095.4	1085.3	1058.6	1015.7	960.4	897.3	823.5	733.7
67°	1098.4	1098.4	1098.4	1097.8	1087.1	1060.9	1016.9	961.0	898.5	824.7	735.5
67.5°	1097.8	1097.8	1098.4	1097.2	1087.1	1060.3	1016.3	961.0	897.9	824.7	735.5
70°	1096.0	1096.0	1096.0	1094.9	1084.7	1058.0	1013.9	958.0	896.1	823.5	734.9
72.5°	1089.5	1090.1	1090.1	1088.9	1078.8	1052.6	1008.6	952.6	891.4	820.0	733.1
75°	1081.8	1081.8	1081.8	1080.6	1070.5	1044.3	1000.8	945.5	885.4	815.2	729.5
77.5°	1070.5	1070.5	1070.5	1069.3	1059.2	1033.6	990.7	936.6	877.7	808.6	725.3
80°	1056.2	1056.8	1056.2	1055.0	1044.9	1019.3	978.2	925.3	867.6	800.9	719.4
82.5°	1039.5	1040.1	1039.5	1037.1	1027.6	1003.2	962.2	910.4	855.7	790.8	712.2
85°	1018.1	1017.5	1018.1	1014.5	1006.2	981.8	944.3	893.7	840.8	778.9	702.1
87.5°	993.7	994.3	993.1	991.3	981.2	957.4	921.7	874.7	823.5	764.6	690.2
90°	966.9	966.9	966.3	963.9	953.2	931.8	897.9	852.7	805.1	748.5	677.7
92.5°	939.6	939.0	937.2	936.0	926.5	904.4	871.7	831.3	786.6	732.5	664.6
95°	909.2	909.2	908.0	905.6	894.9	877.1	845.5	807.5	765.2	715.2	651.0
97.5°	877.1	876.5	875.9	872.3	862.8	844.9	819.4	782.5	743.8	696.8	635.5
100°	845.5	843.8	842.6	839.0	830.7	813.4	789.0	756.9	719.4	676.5	618.8
102.5°	808.6	808.6	808.0	804.5	793.8	779.5	757.5	728.9	696.8	655.7	601.0
105°	775.9	772.9	771.8	768.2	759.9	744.4	725.9	700.9	671.2	633.1	583.1
107.5°	739.0	736.6	736.1	730.7	724.2	709.9	694.4	671.2	646.2	612.3	564.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*701.5*	700.3	699.8	694.4	686.1	676.5	660.5	642.0	620.0	589.1	547.4
112.5°	*664.6*	663.5	663.5	659.3	651.6	639.7	628.4	612.3	592.6	565.9	527.2
115°	*628.4*	626.6	626.0	621.2	613.5	604.5	593.2	581.9	565.3	542.7	507.6
117.5°	*592.1*	589.7	590.3	586.1	580.2	571.2	560.5	552.8	538.5	517.7	487.9
120°	*554.6*	555.2	555.2	549.8	544.5	537.3	528.4	520.7	511.1	492.7	465.3
122.5°	*518.9*	520.1	520.1	516.5	509.9	503.4	497.4	490.3	482.0	467.7	443.3
125°	*483.2*	485.5	484.4	481.4	476.0	468.9	464.7	458.8	452.2	440.3	418.9
127.5°	*450.4*	450.4	447.5	448.1	442.7	436.8	433.2	429.0	422.5	411.2	393.9
130°	*416.5*	417.1	417.7	414.1	409.4	404.6	401.0	399.3	393.9	384.4	367.1
132.5°	*385.6*	385.6	384.4	382.0	377.8	374.3	374.3	368.9	364.8	355.8	341.0
135°	*355.2*	354.6	354.6	352.3	349.3	347.5	343.3	341.0	336.8	328.5	317.2
137.5°	*325.5*	326.7	325.5	323.7	320.7	318.3	315.4	314.8	308.8	302.9	290.4
140°	*296.9*	298.7	296.9	296.3	293.9	291.0	289.2	286.8	285.0	277.3	266.6
142.5°	*270.1*	271.3	270.1	269.5	267.8	265.4	264.2	262.4	258.2	253.5	244.6
145°	*246.9*	246.3	246.3	245.7	243.4	241.6	239.8	238.6	236.2	231.5	221.4
147.5°	*224.3*	222.5	223.7	222.5	220.8	219.6	219.0	216.6	214.2	209.5	202.3
150°	*201.1*	202.3	201.7	201.1	199.3	199.3	197.5	195.8	194.0	188.6	183.9
152.5°	*182.1*	182.1	182.7	181.5	180.9	179.1	177.9	177.3	174.9	171.4	166.0
155°	*166.0*	165.4	165.4	165.4	164.2	162.4	161.8	160.7	159.5	155.3	150.5
157.5°	*150.5*	150.5	150.5	149.9	149.9	148.2	147.6	145.8	144.0	141.6	137.5
160°	*137.5*	137.5	136.9	136.9	136.3	135.7	134.5	132.7	131.5	129.7	126.1
162.5°	*126.7*	126.1	126.1	125.6	125.0	123.8	123.2	122.6	120.8	119.0	116.0
165°	*116.6*	116.6	116.6	116.0	115.4	114.8	114.2	113.1	111.9	110.7	108.9
167.5°	*108.9*	108.9	108.9	108.3	108.3	107.7	107.1	105.9	104.7	103.5	102.3
170°	*102.9*	102.9	102.9	102.3	101.7	101.2	100.6	100.0	99.4	98.2	97.6
172.5°	*98.2*	98.2	98.2	98.2	97.0	96.4	95.8	95.8	95.2	94.6	94.0
175°	*94.0*	94.0	94.0	94.0	93.4	92.8	92.2	92.2	91.6	91.0	90.4
177.5°	*91.6*	91.6	91.6	91.0	91.0	90.4	89.8	89.8	89.3	89.3	88.7
180°	*88.7*	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2.5°	51.2	48.8	44.6	41.1	38.1	35.1	33.3	31.5	31.5	32.1	30.9
5°	61.9	57.7	50.0	41.7	34.5	28.6	23.8	19.6	16.1	14.3	14.3
7.5°	82.1	77.4	66.6	55.9	45.8	36.3	28.6	22.0	16.7	13.7	13.1
10°	105.3	100.0	85.1	72.0	59.5	47.6	37.5	28.6	22.6	19.6	19.0
12.5°	132.1	125.0	107.1	90.4	74.4	59.5	47.0	36.9	30.9	28.0	27.4
15°	163.0	151.7	131.5	110.7	89.8	71.4	56.5	45.2	38.7	34.5	34.5
17.5°	191.0	179.1	154.7	127.9	104.1	82.7	64.9	51.2	42.2	38.1	37.5
20°	223.1	207.1	177.9	147.0	117.8	91.6	70.2	54.7	44.0	38.7	38.7
22.5°	255.9	239.2	203.5	166.0	130.9	100.0	75.6	57.1	45.2	39.3	38.7
25°	294.5	271.9	229.1	186.8	145.8	108.9	80.3	59.5	46.4	40.5	39.3
27.5°	332.0	308.8	258.8	207.7	159.5	117.8	84.5	61.9	47.6	41.1	40.5
30°	371.3	342.7	286.2	229.1	173.7	125.6	88.7	63.7	48.2	41.7	40.5
32.5°	410.6	379.0	316.6	249.9	187.4	132.7	92.2	64.9	49.4	42.2	41.1
35°	450.4	416.5	345.7	270.7	199.9	139.2	94.6	66.0	50.0	42.2	41.7
37.5°	484.9	449.2	373.1	289.8	210.6	144.6	97.0	67.2	50.0	42.8	42.2
40°	519.5	480.8	396.9	305.8	220.2	148.8	98.8	67.8	50.6	43.4	42.8
42.5°	550.4	507.6	417.7	320.1	227.9	151.7	99.4	67.8	51.2	44.0	43.4
45°	578.4	534.9	437.3	333.8	234.4	153.5	100.0	68.4	51.8	44.6	44.0
47.5°	604.0	557.5	455.2	345.1	239.8	155.3	100.0	68.4	52.4	45.8	44.6
50°	625.4	576.6	470.1	354.6	243.4	155.9	99.4	68.4	53.0	46.4	45.8
52.5°	642.0	592.6	482.6	361.2	245.7	155.3	98.8	68.4	53.6	47.0	46.4
55°	656.3	605.7	491.5	366.5	246.3	154.1	98.2	68.4	54.1	48.2	47.6
57.5°	667.0	615.3	499.2	370.7	246.9	152.9	97.0	68.4	54.7	48.8	48.2
60°	675.4	623.6	505.2	373.1	246.3	151.1	96.4	68.4	55.3	50.0	49.4
62.5°	681.3	628.4	508.7	373.7	244.6	149.4	95.2	68.4	55.9	51.2	50.6
65°	684.9	631.9	511.7	374.3	242.8	147.6	94.6	69.0	57.1	53.0	52.4
67°	*686.1*	*633.7*	*512.3*	*374.3*	*241.6*	*146.4*	*94.6*	*69.6*	*58.3*	*53.6*	*53.0*
67.5°	686.7	633.7	512.3	373.7	241.0	146.4	94.6	69.6	58.3	54.1	53.6
70°	686.1	633.7	512.3	372.5	239.2	145.2	94.0	70.8	60.1	55.9	55.3
72.5°	684.9	632.5	511.1	370.7	236.8	144.0	94.6	72.0	61.9	57.7	57.1
75°	681.9	630.1	508.7	368.3	235.0	142.8	95.2	73.2	63.7	60.1	59.5
77.5°	678.9	627.2	507.0	365.9	233.3	142.8	95.8	75.0	66.0	62.5	61.9
80°	673.6	623.0	503.4	363.6	231.5	142.2	97.0	77.4	68.4	64.9	64.3
82.5°	667.0	617.0	498.6	360.0	229.7	142.2	98.8	79.1	70.8	67.2	66.6
85°	658.1	609.3	492.7	355.2	227.9	142.8	100.0	81.5	73.2	70.2	69.6
87.5°	648.0	599.8	485.5	351.1	226.1	142.8	101.7	83.9	75.6	72.6	72.6
90°	636.1	589.7	477.2	346.3	224.3	144.0	104.1	86.3	78.5	75.6	75.6
92.5°	625.4	579.0	470.7	341.5	223.1	145.2	106.5	89.3	81.5	78.5	78.5
95°	611.1	567.7	461.1	337.4	222.5	146.4	108.9	92.2	85.1	82.1	81.5
97.5°	597.4	555.2	452.8	332.6	221.9	148.8	111.9	95.8	88.1	85.1	85.1
100°	582.5	542.7	443.3	328.5	221.9	151.7	116.0	99.4	92.2	89.3	88.7
102.5°	568.3	529.0	433.8	324.3	223.1	154.7	120.2	103.5	96.4	93.4	92.8
105°	552.2	514.7	425.4	320.7	224.3	158.9	125.0	108.9	101.2	98.2	97.6
107.5°	536.1	501.6	415.9	317.7	226.7	164.2	130.9	114.2	106.5	102.9	102.3

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

Scaled Data Report

REPORT NUMBER: P1045845
CATALOG NUMBER: FFX-CLB-50-730-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	518.9	487.3	407.6	315.4	230.3	170.2	137.5	121.4	112.5	108.9	108.3
112.5°	502.8	473.0	398.7	313.6	233.8	177.3	145.2	127.9	119.6	114.8	114.2
115°	484.9	458.2	390.3	311.8	238.0	184.5	153.5	135.1	126.1	121.4	121.4
117.5°	467.7	442.7	380.8	310.0	242.2	192.2	161.3	142.8	132.7	127.9	127.3
120°	447.5	426.0	370.7	306.4	244.6	198.1	167.8	149.4	138.0	133.3	132.7
122.5°	427.2	407.6	357.6	301.1	245.2	201.7	172.6	154.7	142.8	137.5	136.9
125°	404.0	387.4	343.9	292.8	243.4	203.5	175.5	156.5	144.6	138.6	138.0
127.5°	381.4	365.3	327.9	282.6	238.6	201.7	174.9	156.5	144.6	138.0	137.5
130°	357.0	342.7	308.8	270.1	230.9	197.5	172.6	154.1	142.2	135.7	135.1
132.5°	332.0	320.1	290.4	256.5	221.4	191.0	167.2	149.9	138.0	132.1	131.5
135°	307.6	296.9	271.3	241.0	211.2	183.3	161.3	144.6	132.7	127.3	127.3
137.5°	284.4	274.3	251.7	226.1	199.3	174.3	154.1	138.0	127.9	122.6	121.4
140°	260.6	252.3	232.7	210.0	186.8	164.8	146.4	131.5	122.0	117.2	116.6
142.5°	238.6	231.5	214.8	196.4	174.9	155.9	138.6	126.1	117.2	112.5	111.9
145°	217.8	211.2	197.0	180.3	163.0	146.4	130.9	119.6	111.9	108.3	107.7
147.5°	197.0	192.8	180.9	167.2	151.1	136.3	123.8	114.2	107.1	104.1	103.5
150°	179.7	174.3	165.4	152.9	140.4	127.9	117.2	108.9	103.5	100.6	100.6
152.5°	162.4	159.5	150.5	141.0	130.3	120.2	110.7	104.1	100.0	97.6	97.6
155°	149.4	145.2	137.5	129.7	120.8	112.5	105.9	100.6	97.0	95.2	94.6
157.5°	135.7	133.3	127.3	120.2	113.7	107.1	101.7	97.6	94.6	93.4	92.8
160°	124.4	122.6	117.8	112.5	107.1	102.3	98.2	95.2	92.8	91.6	91.6
162.5°	114.8	113.7	109.5	105.9	101.7	98.2	95.2	92.8	91.6	91.0	91.0
165°	107.7	106.5	103.5	100.6	98.2	95.2	93.4	91.6	90.4	90.4	90.4
167.5°	101.7	100.6	98.8	97.0	95.2	92.8	91.6	90.4	90.4	89.8	89.8
170°	97.0	96.4	94.6	93.4	92.2	91.0	90.4	89.8	89.3	89.3	89.3
172.5°	93.4	92.8	91.6	91.0	89.8	89.3	89.3	89.3	89.3	89.3	89.3
175°	90.4	89.8	89.8	89.3	88.7	88.7	88.1	88.7	88.7	88.7	88.7
177.5°	88.7	88.7	88.1	88.1	88.1	88.1	88.1	88.7	88.7	89.3	89.3
180°	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

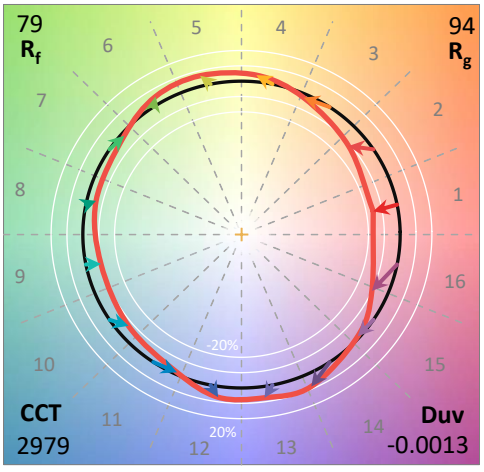
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-9
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-20-730-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):	2979
CIE u':	0.2518
CIE v':	0.5199
Duv:	-0.0013
CIE x:	0.4365
CIE y:	0.4006
CIE z:	0.1630
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	583
Purity:	51.24251
Rf:	79.2
Rg:	94.4

CRI (Ra):	75.1				
R1:	72.0	R9:	-26.5
R2:	87.0	R10:	72.2
R3:	93.5	R11:	69.1
R4:	71.3	R12:	66.7
R5:	73.0	R13:	75.2
R6:	83.8	R14:	96.7
R7:	76.4	R15:	63.2
R8:	44.1		



Test Conditions

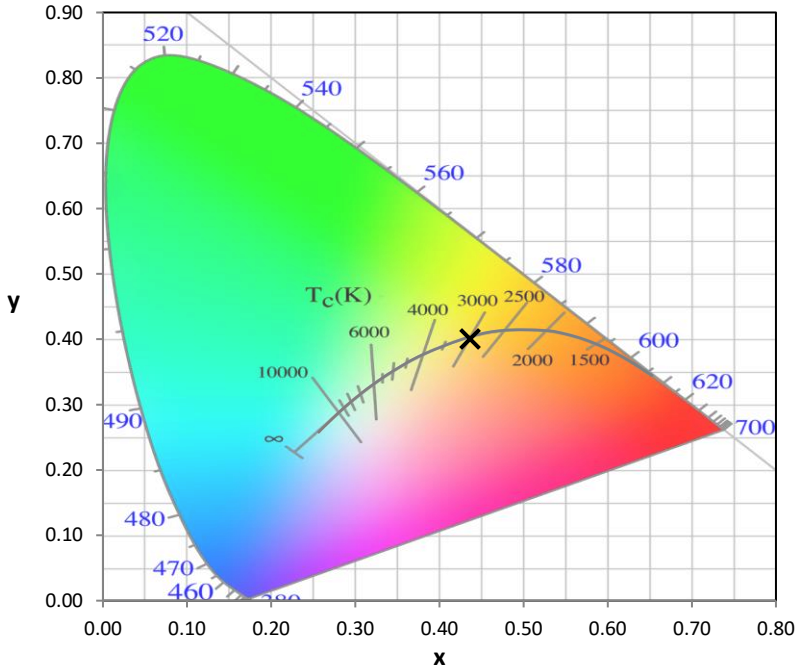
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-9

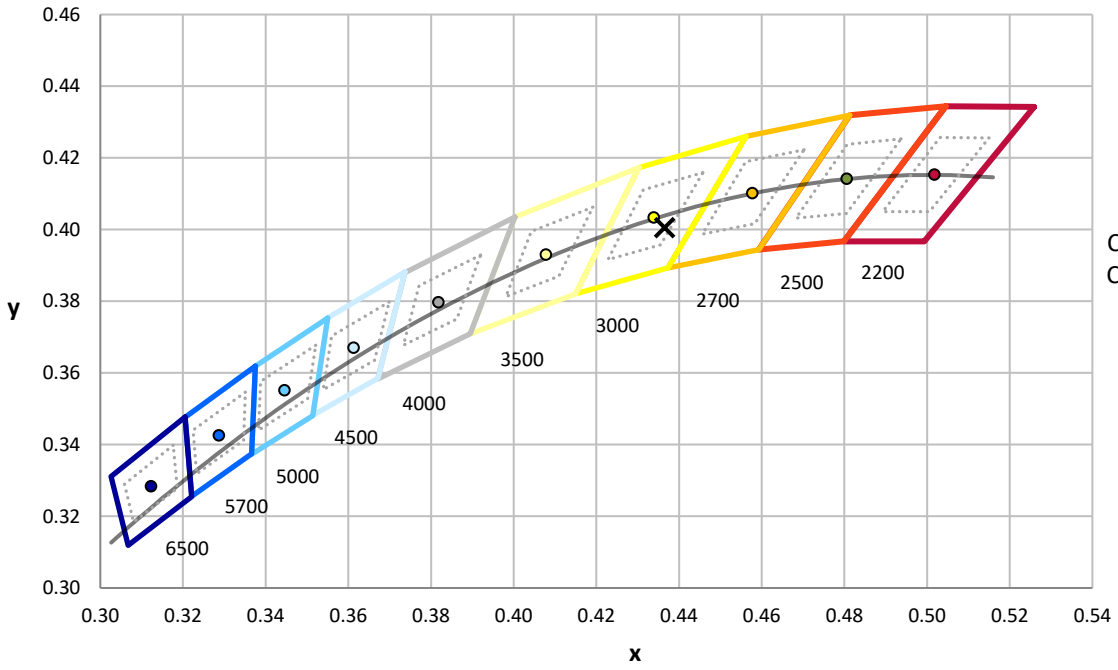
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-9

CIE 1931 Chromaticity Diagram



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

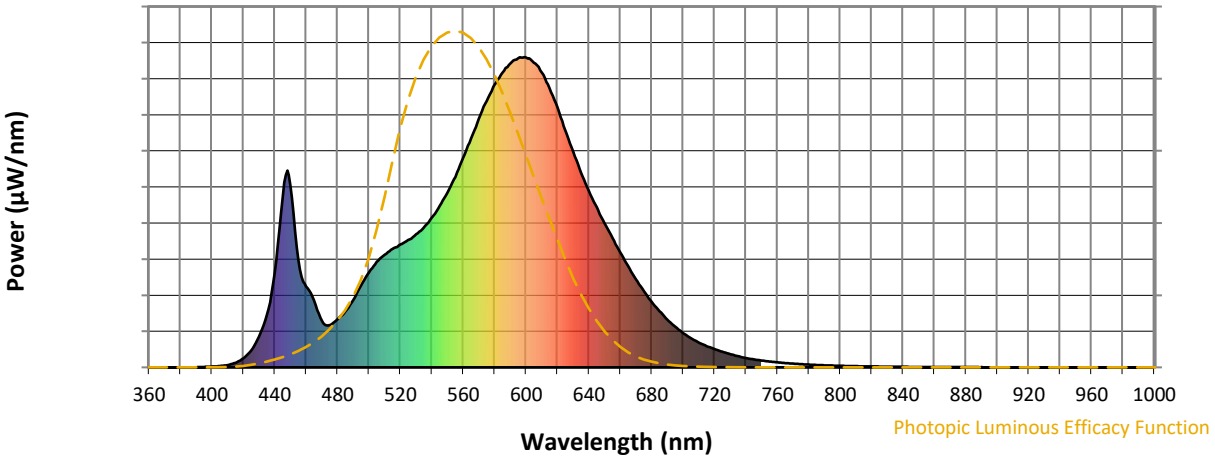


CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

Photopic Flux vs. Wavelength

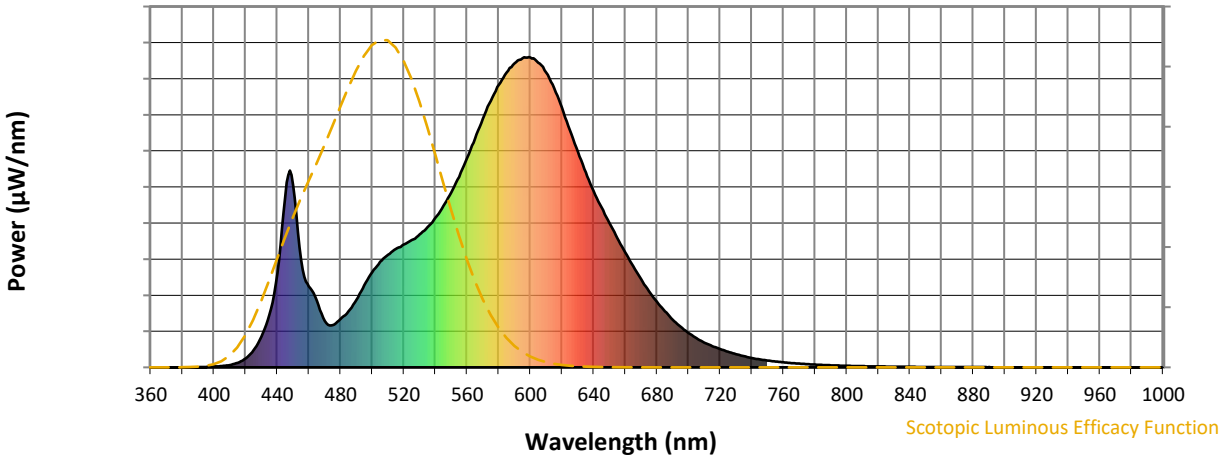


Photopic Lumens: NR

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Scotopic Flux vs. Wavelength

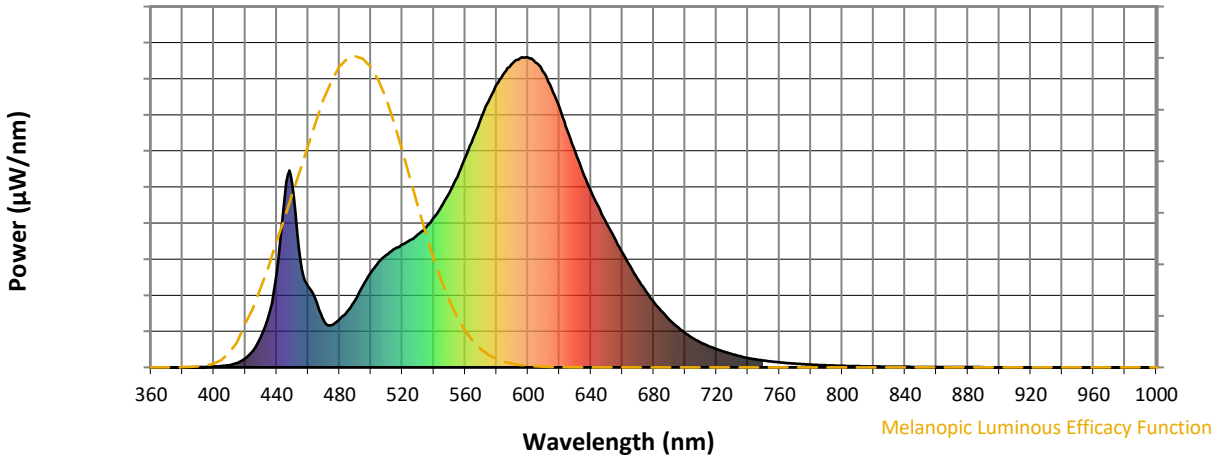


Scotopic Lumens: NR **S/P: 1.29**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.45**

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	217	NR	620	838	NR	750	22	NR	880	1	NR
365	0	NR	495	264	NR	625	764	NR	755	19	NR	885	1	NR
370	0	NR	500	306	NR	630	696	NR	760	16	NR	890	1	NR
375	0	NR	505	340	NR	635	629	NR	765	14	NR	895	0	NR
380	0	NR	510	363	NR	640	568	NR	770	12	NR	900	0	NR
385	0	NR	515	382	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	396	NR	650	465	NR	780	9	NR	910	0	NR
395	2	NR	525	411	NR	655	417	NR	785	8	NR	915	0	NR
400	3	NR	530	429	NR	660	370	NR	790	7	NR	920	0	NR
405	4	NR	535	452	NR	665	326	NR	795	6	NR	925	0	NR
410	8	NR	540	482	NR	670	284	NR	800	5	NR	930	0	NR
415	15	NR	545	521	NR	675	245	NR	805	4	NR	935	0	NR
420	29	NR	550	563	NR	680	211	NR	810	4	NR	940	0	NR
425	55	NR	555	614	NR	685	181	NR	815	3	NR	945	0	NR
430	99	NR	560	676	NR	690	154	NR	820	3	NR	950	0	NR
435	171	NR	565	738	NR	695	131	NR	825	3	NR	955	0	NR
440	303	NR	570	802	NR	700	111	NR	830	2	NR	960	0	NR
445	547	NR	575	859	NR	705	94	NR	835	2	NR	965	0	NR
450	587	NR	580	911	NR	710	80	NR	840	2	NR	970	0	NR
455	346	NR	585	950	NR	715	69	NR	845	2	NR	975	0	NR
460	261	NR	590	980	NR	720	59	NR	850	1	NR	980	0	NR
465	216	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	150	NR	600	998	NR	730	42	NR	860	1	NR	990	0	NR
475	137	NR	605	982	NR	735	36	NR	865	1	NR	995	0	NR
480	156	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	180	NR	615	899	NR	745	26	NR	875	1	NR			

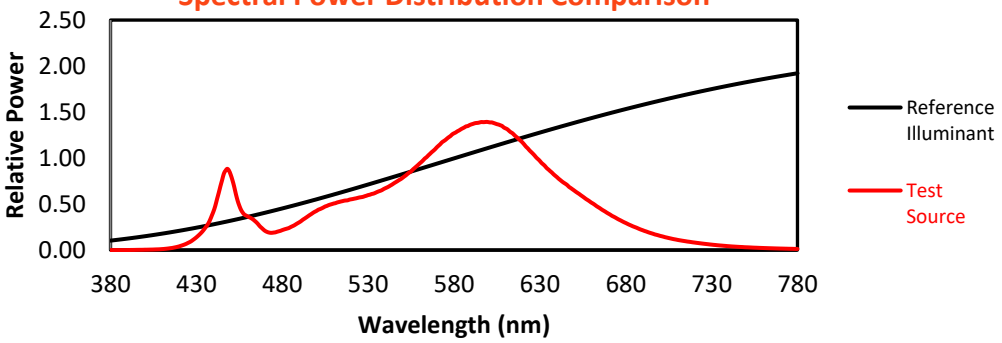
REPORT NUMBER: SP1-2501-332-9

TM-30-18

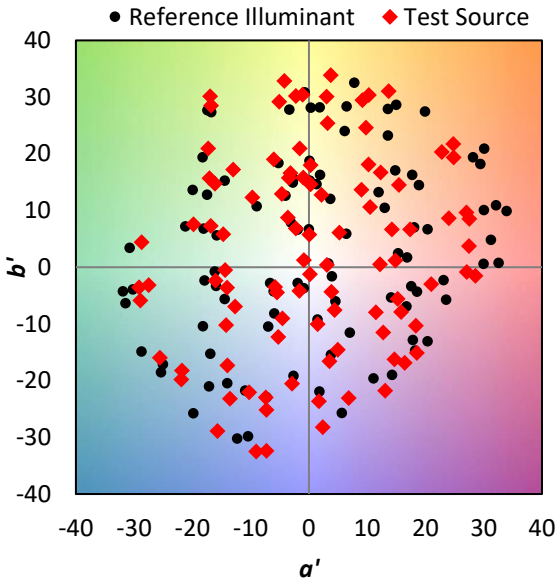
Summary

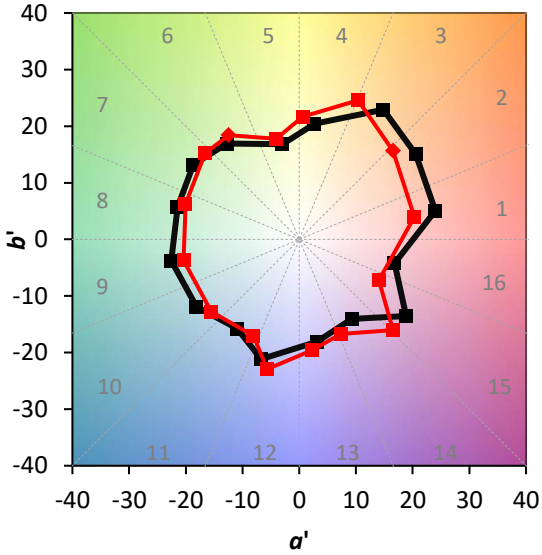
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R_g = 94.4
CIE R_a = 75.1
R_9 = -26.5

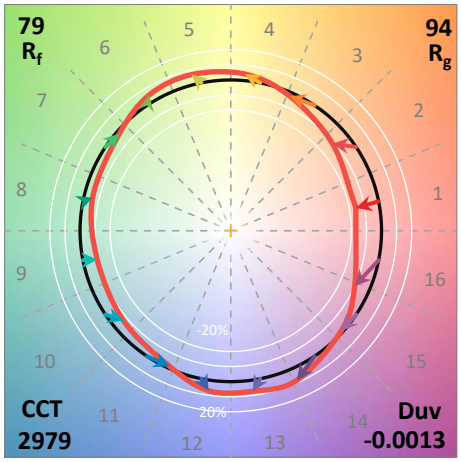
Spectral Power Distribution Comparison

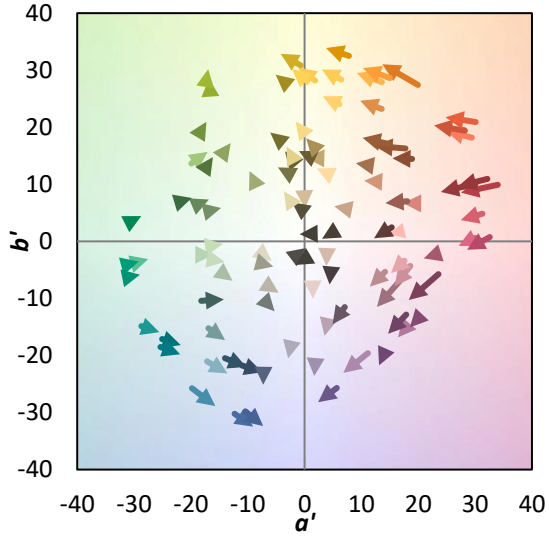


Color Vector Graphics







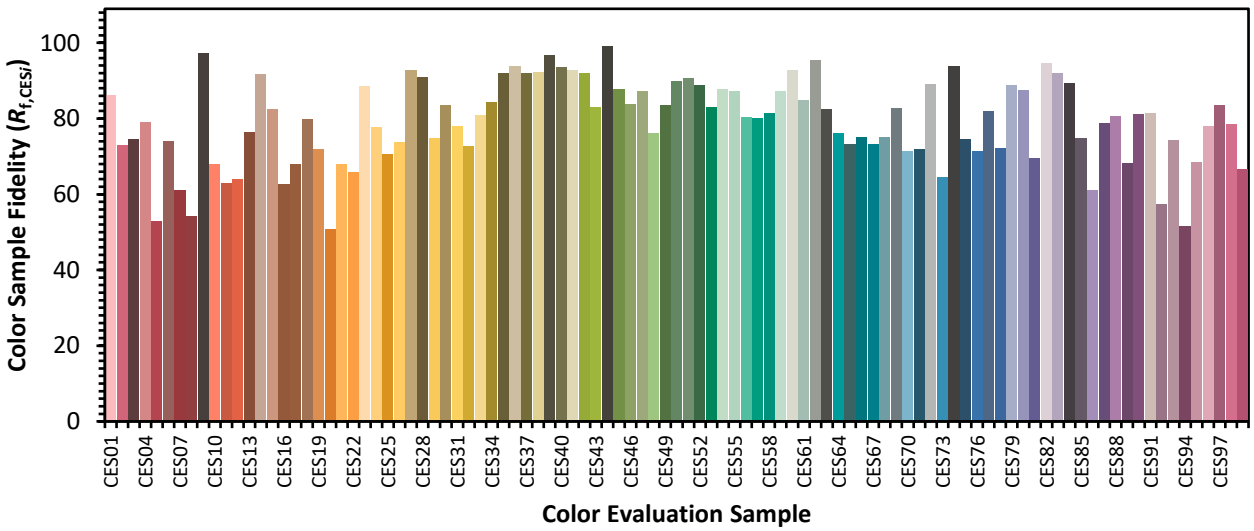


REPORT NUMBER: SP1-2501-332-9

TM-30-18

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

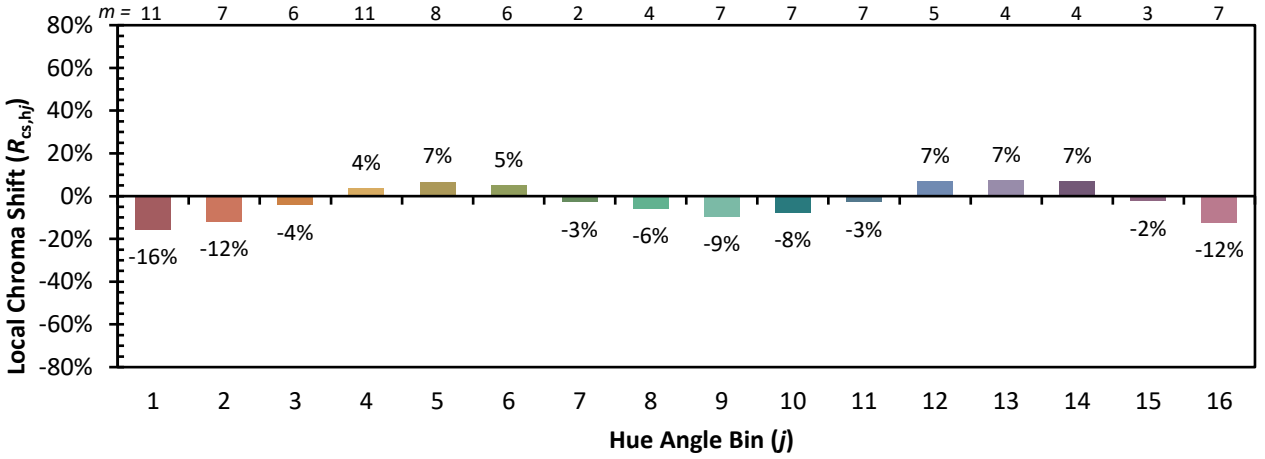
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CES02 = 63	CES27 = 93	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 83	CES78 = 72
CES04 = 71	CES29 = 75	CES54 = 88	CES79 = 89
CES05 = 49	CES30 = 84	CES55 = 87	CES80 = 87
CES06 = 51	CES31 = 78	CES56 = 80	CES81 = 70
CES07 = 42	CES32 = 73	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 81	CES58 = 81	CES83 = 92
CES09 = 29	CES34 = 84	CES59 = 87	CES84 = 89
CES10 = 76	CES35 = 92	CES60 = 93	CES85 = 75
CES11 = 59	CES36 = 94	CES61 = 85	CES86 = 61
CES12 = 65	CES37 = 92	CES62 = 96	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 76	CES89 = 68
CES15 = 71	CES40 = 94	CES65 = 73	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 75	CES91 = 81
CES17 = 50	CES42 = 92	CES67 = 73	CES92 = 57
CES18 = 56	CES43 = 83	CES68 = 75	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 52
CES20 = 66	CES45 = 88	CES70 = 71	CES95 = 69
CES21 = 87	CES46 = 84	CES71 = 72	CES96 = 78
CES22 = 79	CES47 = 87	CES72 = 89	CES97 = 84
CES23 = 92	CES48 = 76	CES73 = 64	CES98 = 78
CES24 = 91	CES49 = 84	CES74 = 94	CES99 = 67
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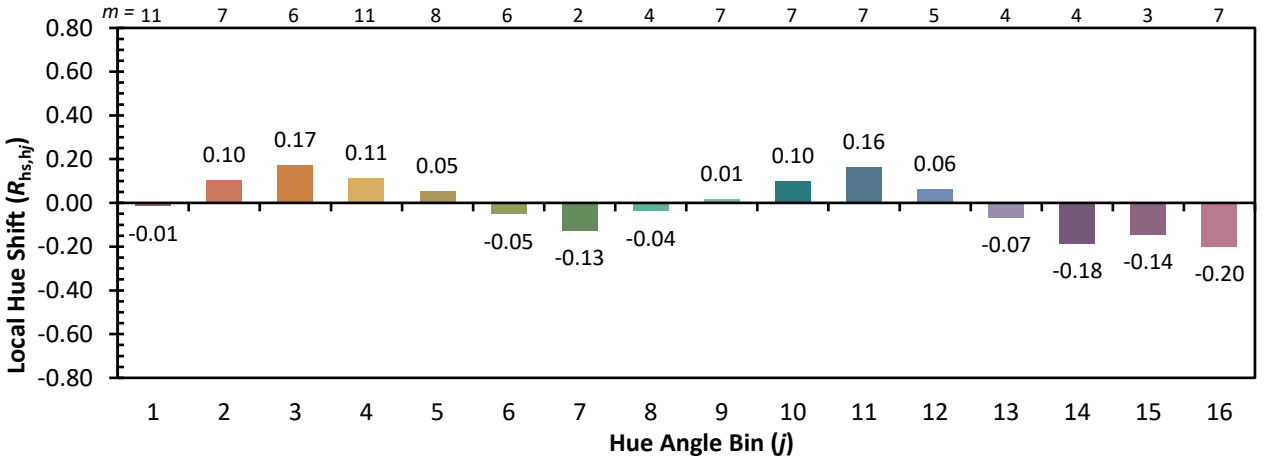


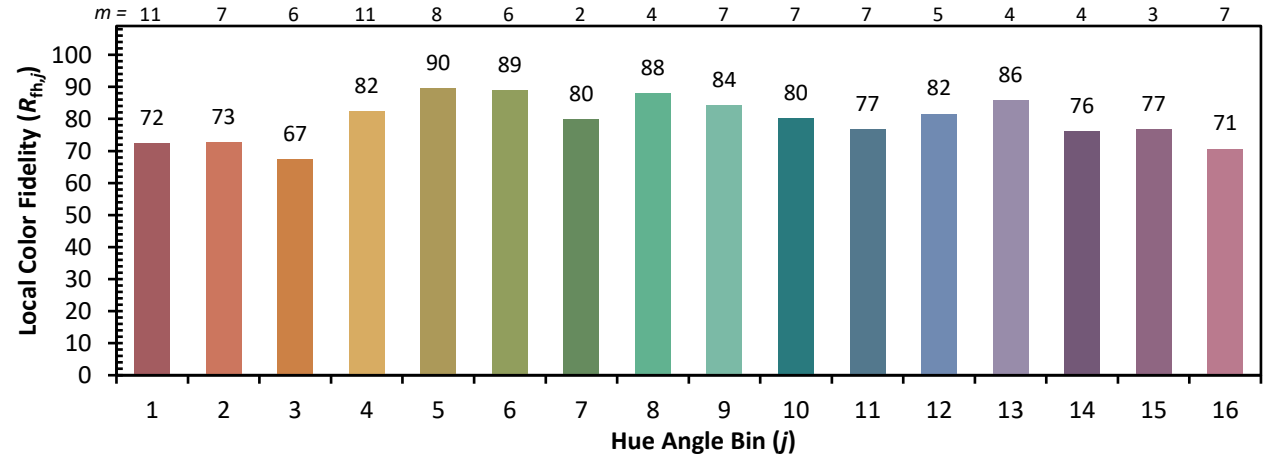
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Color Rendition by Hue-Angle Bin



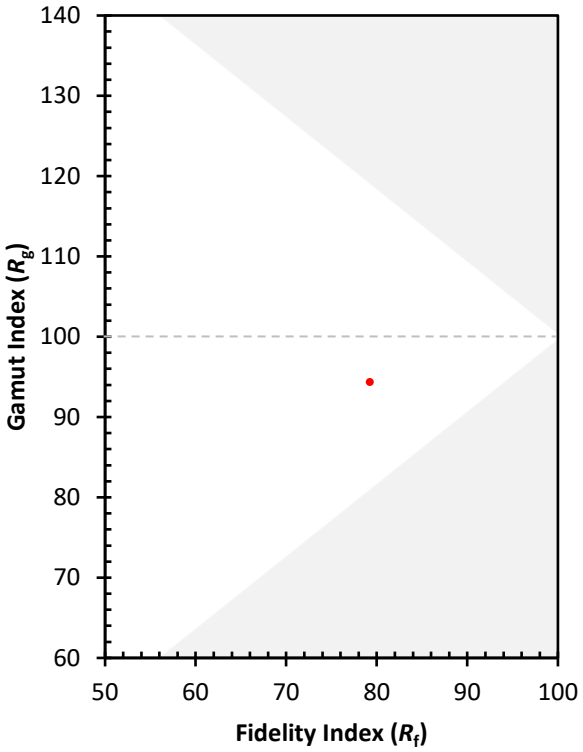


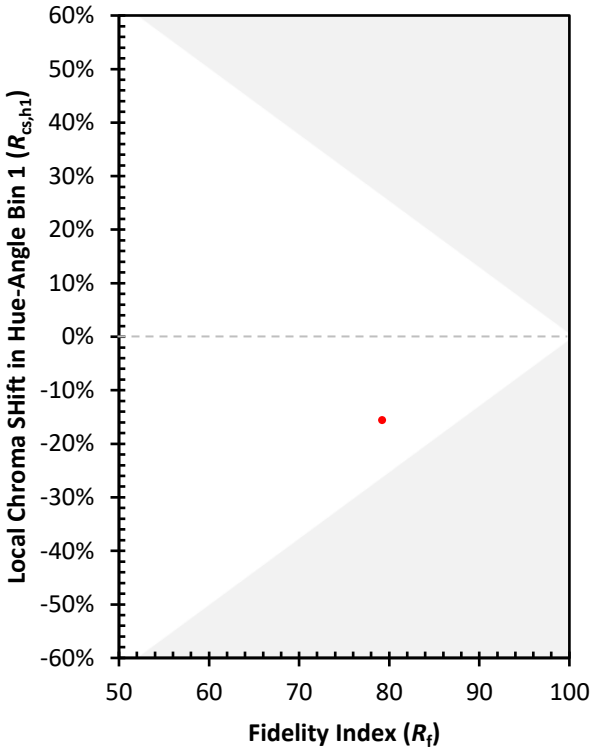


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Measure Comparisons





(END OF REPORT)